
No.240
Furniture &
Architectural
Hardware
SUGATSUNE
Since 1930

Message From The President

Dear Customers,

In 2015, Sugatsune celebrated its 85th Anniversary. There are several reasons for this long and successful story. The first one is of course the confidence and trust of our customers. Without them, we would still be the local hardware store that we were 85 years ago.
The second is the hard work of all our partners, who do their very best in order to assist you and bring you the Sugatsune products in due time and condition.
The third is our unique product range.

The name Sugatsune and the LAMP brand have long been associated with Quality, Innovation and Service. With its unparalleled finish, the Zwei L series is a perfect example of our commitment to bring you the worldwide known Japanese quality. Over 25 years ago, Sugatsune was also the first company in the world to bring the concept of soft-close stays to the kitchen world. We also have shown our ability to bring you unique solutions such as the MultiMo FLAT, MonoFlat UNIZON, or FAD and LIN-X series.

We believe that our creativity is necessary in order to help you develop new designs.
With this new catalogue, we offer an increased range of solutions (almost 30% more products), and hope that you find the perfect solution.

Thank you for your continued patronage and please be assured that we will continue to do our best to bring you high quality and unique solutions for the next 85 years.

President of Sugatsune Japan,
Jun Sugasawara



Our Brands

SOLUTIONS FROM AN INDUSTRY LEADER

SUGATSUNE continues to be a leading source for unique, high-quality hardware products. Architects, builders, designers and OEM's continue to depend on our SUGATSUNE quality and craftsmanship. You'll see and feel the difference in every product, from catches and latches to our patented dampening mechanisms.

Manufacturing the finest quality hardware is our mission. With design offices in Japan and distributorships in U.S.A., U.K., China, and around the world, we offer prompt delivery to meet your deadlines and schedules.

THE SUGATSUNE DIFFERENCE

Precision Quality

Our products are designed to meet your exacting standards. SUGATSUNE quality craftsmanship ensures years of trouble-free operation.

Vast Selection

Choose from more than 20,000 items, all manufactured by SUGATSUNE or produced exclusively for us. Each product is created to meet your every need in the global marketplace with extensive local distribution and large inventory.

Customer Satisfaction

You can rely on the SUGATSUNE combination of product and availability to insure complete satisfaction. Experience our superior customer service from the moment you place your order to the time an order is shipped.

Advanced Design

SUGATSUNE is constantly innovating advanced new hardware solutions. Our design and engineering staff stay abreast of the latest trends to bring you exemplary products.

History of SUGATSUNE

Offices in Japan

Tokyo Head Office



Global Headquarter

Tokyo Showroom







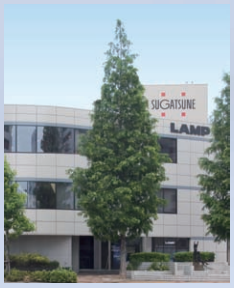
Branch Office



Kanagawa



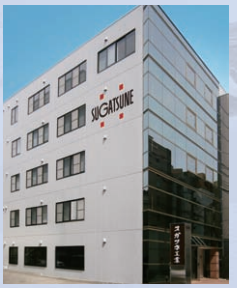
Osaka



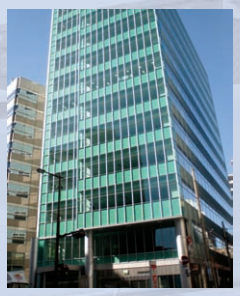
Nagoya



Kyoto



Fukuoka



Sendai

1930 Sugatsune Kogyo is founded by Tsunesaburo Sugasawara.

1943 First Factory in Tokyo, Japan is opened.

1955 Special hardware is supplied to the household of the Japanese emperor.

1972 Obtained International patent with magnetic door holder in 12 different countries.

1975 First branch Office is opened in Osaka, Japan

1982 Sugatsune America is founded in Los Angeles, California.

1985 Sugatsune Japan head Office renovated new building in central Tokyo.

1987 "LAPCON" soft-close dampening technology is developed and launched first LAPCON products, Tallman-Closet Rod System.

1988 Signature LAPCON products. SDS soft-down stay begins production.

2015 — Sugatsune India office & showroom are founded in Mumbai, India.

2014 — Sugatsune Germany is founded.

2010 — Sugatsune Japan's 80th anniversary and private show events in Japan receive over 10,000 visitors.

2009 — Next generation lid stay SLS-ELAN with soft-closing and lift assist function begins poduction.

2005 — Sugatsune UK and Sugatsune Shanghai offices are founded. The largest showroom in the industry in Japan is opened in Tokyo.

2004 — Branch offices are opened in Sendai and Fukuoka, Japan.

2003 — Premium Brand "Zwei L" product line begins production.

1999 — HBFN/SLUN new LAPCON lid stay series begin production.

1990 — NSD adjustable soft-close stay begins production.

Overseas Branches

Reading, UK



Shanghai, CHINA



Guangzhou, CHINA



Mumbai, INDIA



Düsseldorf, GERMANY



California, USA



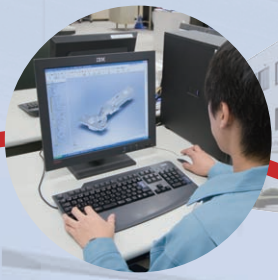
Chicago, USA



Comprehensive Strength



Design



Development





Total Capability

from Japan
to the World

Production



Quality Control



Distribution
Network





Global Headquarters & Overseas Branches



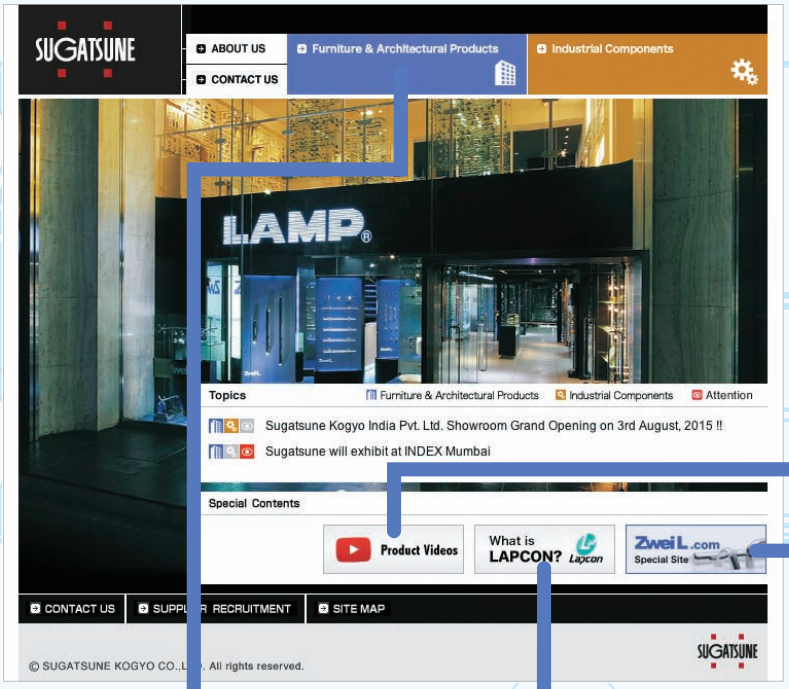
Sugatsune has a rich tradition of manufacturing premium high-quality hardware. The quality and the originality of our products are a proof of Sugatsune Japan's long history over 85 years. We have expanded and now have 8 overseas subsidiaries as well as the local distributors around the world in more than 80 countries.



In pursuance of the company quality, Japan headquarters are certified according to ISO9001 & ISO14001 (Chiba factory and warehouse).

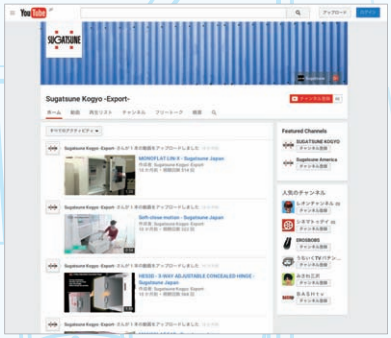
Website Redesigned

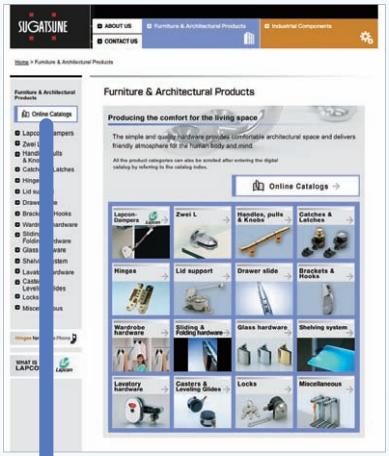
www.sugatsune-intl.com



You will see our wide product range, news & any necessary information there.

Check the movements on our product.

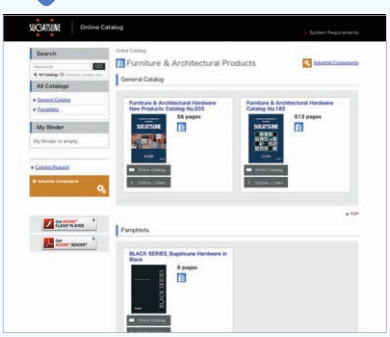




Easy to search & get an overview of the products you want.

LAPCON products fit in anywhere.



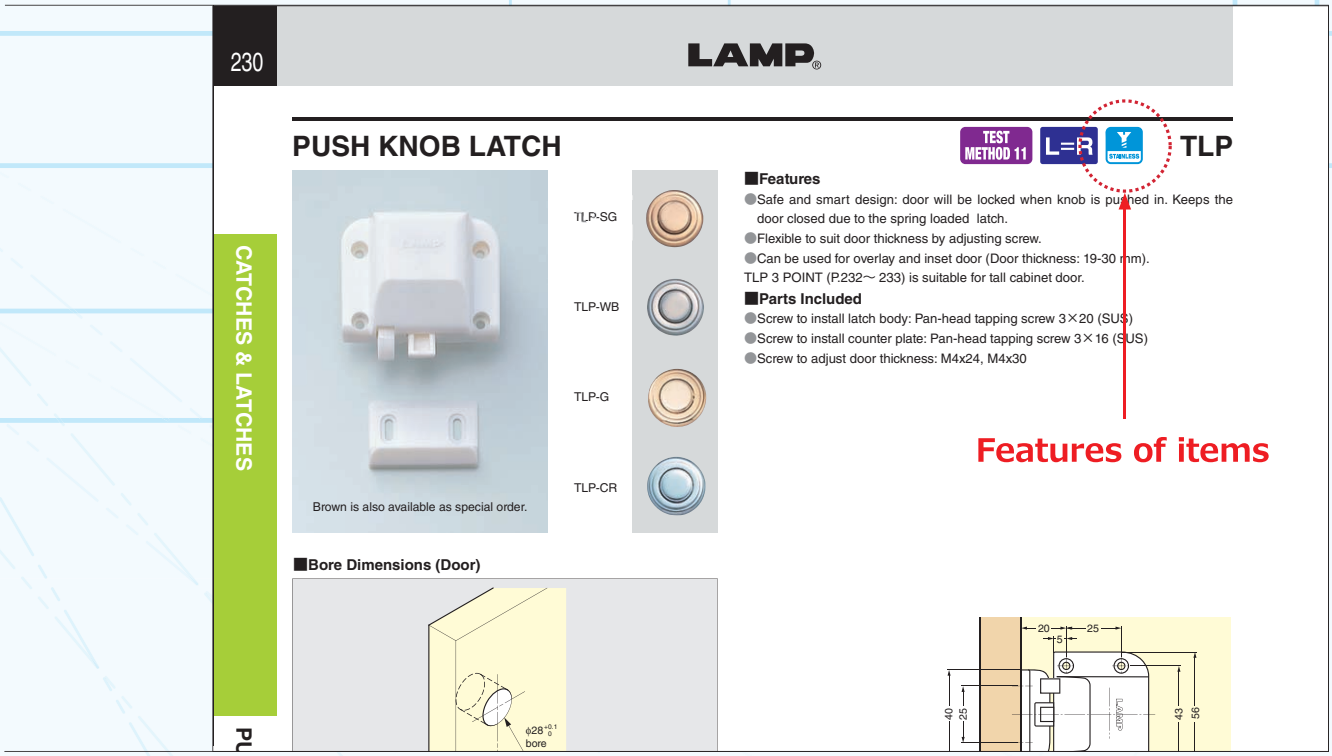


Catalogues are also available online.

Japanese high quality luxury brand.



Icon Definitions



TEST METHOD Test method

NSF NSF certified products

Lapcon Patented products as Lapcon

SCREW Steel Screw

SCREW Stainless Steel Screw

L=R Non-handed
Available for both side.

STAINLESS 430 STEEL STAINLESS 430 Stainless Steel

STAINLESS 302 STEEL STAINLESS 302 Stainless Steel

STAINLESS 303 STEEL STAINLESS 303 Stainless Steel

STAINLESS 304 STEEL STAINLESS 304 Stainless Steel

STAINLESS 316 STEEL STAINLESS 316 Stainless Steel

- All items, unless specified, are made to exact metric dimensions.
- Changes in dimensions, finishes, and packing etc. or suspension of production may occur without notice.
- Our liability is limited to the replacement of the merchandise.



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- VENTILATORS
- CABLE GROMMETS
- TRAY UNITS
- UMBRELLA STANDS

Soft closing technology

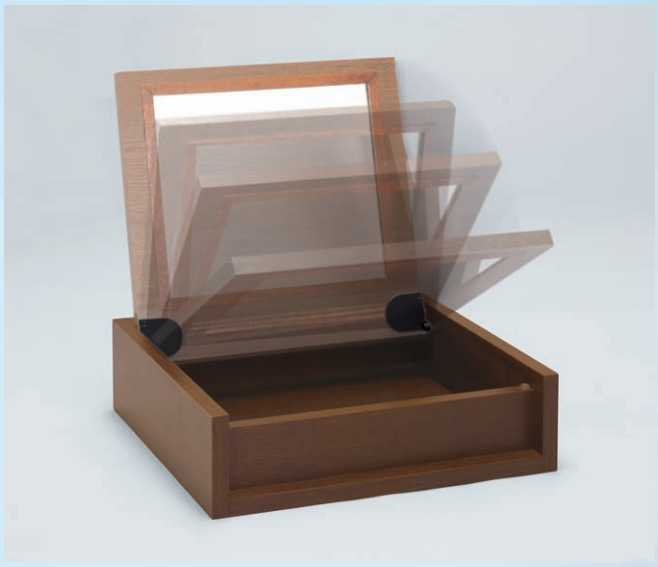
Lapcon comes from LAMP CONTROL.

Lapcon is the name given by Sugatsune to its range of controlled closure solutions. It was first used in 1989 with the SDS cabinet stay. This was the first such product in the world and created a new trend for openings in the kitchen in Europe and other countries.

Nowadays, Lapcon technology extends to architectural and industrial solutions where a smooth and controlled movement is needed.



SDS-C100-TV



HG-JHM



LAD



SLS-ELAN



HBF-ELAN



SLU-ELAN

Flush closing door system

A recent development, flush-closing sliding door systems offer an unbroken surface for storage systems giving a minimalist contemporary look. Sugatsune's approach is to give the designer a complete range of flush closing options from small cabinets to full height walk-in wardrobe or partition doors.



LIN-X1000



FAD-44



MFU-1000



MFS

Stainless steel quality products

Stainless steel products are favoured for all applications because of their modern finish, durability, and non-corrosive quality. This material is also known for its low-maintenance properties so using stainless steel is easy to maintain while being great to look at. Sugatsune is able to offer the widest range of products, from simple decorative hardware to complicated functional hardware. Use Sugatsune's quality stainless steel for a long lasting yet simple and modern design.



AZ-GD



XL-CU



EN-R80



4545B



SU



L-200P



MC-YN005



3810S



HG-JH14







ZweiL

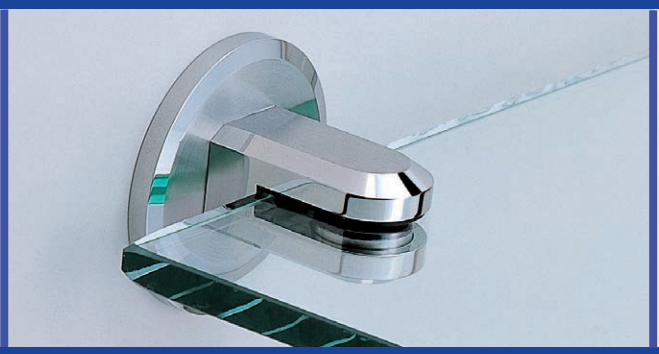
Zwei L

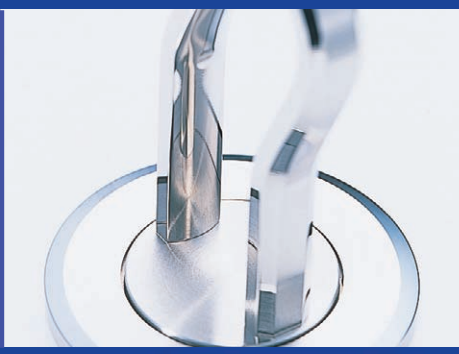
Zwei L represents the very pinnacle of ultra-premium Japanese hardware design. Contrasting bands of mirror finish and lustrous satin on a faceted profile give jewel like highlights which flatter any architectural space. Manufactured from solid billets of the finest quality 316 stainless steel, Zwei L communicates luxury and quality in the hand and dazzles the eye. Zwei L was conceived as a coherently designed range where each piece reflects and complements the others.

Zwei L- a timeless classic at the leading edge of design.

www.ZweiL.com











FD SLIDING DOOR SYSTEM



FDP40 STACKABLE PARTITION DOOR SYSTEM

Solutions for architects

Finding the right solution with the right design and durability is a preoccupation for the modern architect. Sugatsune works closely with architects in the asia and other areas, understanding that exceptional customer service is a necessity. Sugatsune products are often specified for their reliability, but collaboration on large projects often leads to innovation and new product development.



HES3D 3-WAY ADJUSTABLE CONCEALED HINGE

Glass hardware





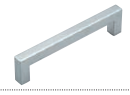
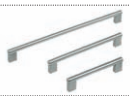
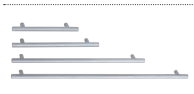


HANDLES
PULLS
KNOBS

SUGATSUNE

HANDLES (BACK SCREW MOUNT)

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	I1020	STAINLESS 304 STEEL	29
	DIH	STAINLESS 304 STEEL	29
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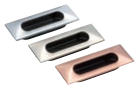
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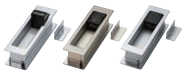
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	GD-20	84
	FS-04-S	85
	FS-06-S	85
	UIB	85
	UIA	85
	UID	86
	215F	86
	231F, 232F, 217F	86

Picture	Item Name	Page
	229F	86
	SMT	87
	SMRB	87

PUSH KNOB

Picture	Item Name	Page
	ZL-1908 STAINLESS 316 STEEL	88
	PK03	89
	PK04	89

DOOR HANDLE

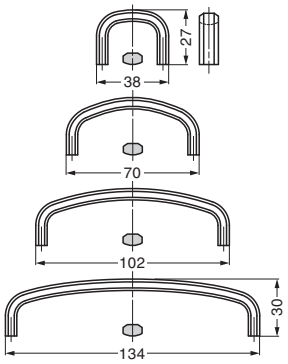
Picture	Item Name		Page
	ZL-1501	STAINLESS 316 STEEL	90～91
	ZL-1502	STAINLESS 316 STEEL	92～93
	ZL-1506	STAINLESS 316 STEEL	94～95
	MP	STAINLESS 316 STEEL	96
	RH-760	STAINLESS 303 STEEL / STAINLESS 304 STEEL	96
	SSH	STAINLESS 304 STEEL	97
	SOR		97
	MDH	STAINLESS 304 STEEL	98
	DTM-B	BRASS	99
	DSI-4253	STAINLESS 304 STEEL	104
	DSI-3250	STAINLESS 304 STEEL	104
	DSI-4251	STAINLESS 304 STEEL	105
	DSI-3330	STAINLESS 304 STEEL	105
	DSI-2000	STAINLESS 304 STEEL	106
	DSI-3310	STAINLESS 304 STEEL	107
	DSI-4400	STAINLESS 304 STEEL	107
	DSI-1630	STAINLESS 304 STEEL	108

DOOR KNOB

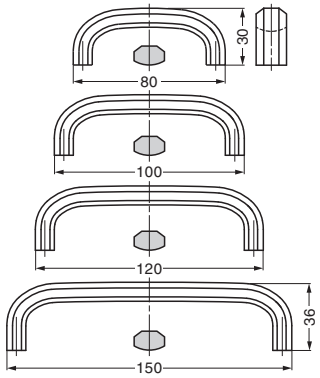
Picture	Item Name		Page
	ZL-1503	FOR GLASS DOORS / STAINLESS 316 STEEL	100
	ZL-2502	FOR GLASS DOORS / STAINLESS 316 STEEL	100
	ZL-1504	FOR GLASS DOORS / STAINLESS 316 STEEL	101
	ZL-1505	FOR GLASS DOORS / STAINLESS 316 STEEL	101
	ZL-1909	FOR GLASS DOORS / STAINLESS 316 STEEL	102
	ZL-1907	FOR GLASS DOORS / STAINLESS 316 STEEL	102
	ZL-1906	FOR GLASS DOORS / STAINLESS 316 STEEL	103
	GT-40CR	FOR GLASS DOORS / BRASS	103

STAINLESS STEEL HANDLE SERIES

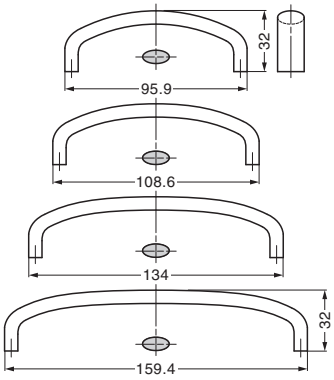
XL-JSR (P.16)



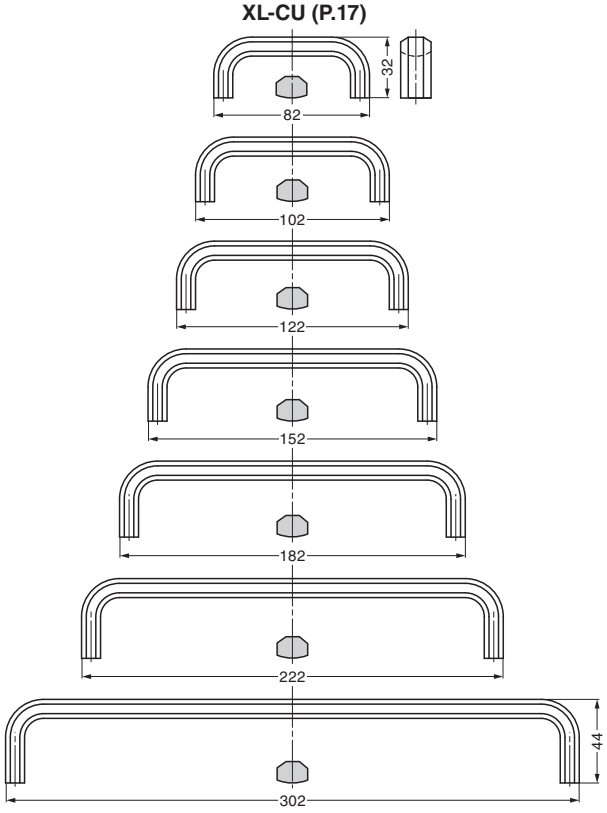
XL-CUR (P.18)



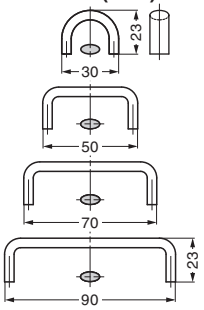
EK-R (P.16)



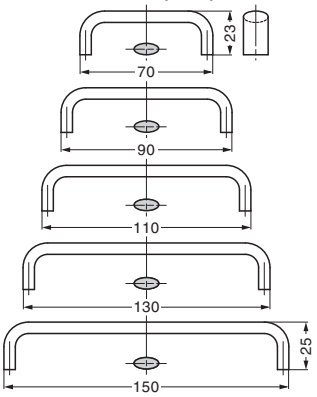
XL-CU (P.17)



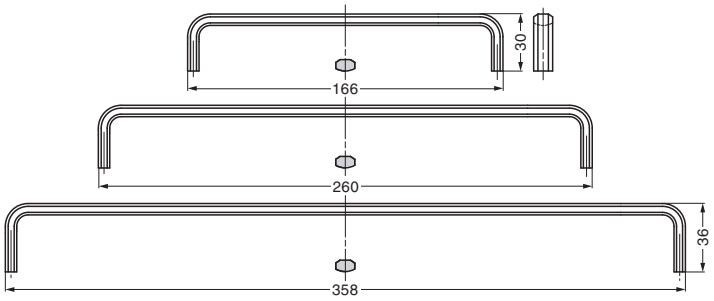
DS (P.20)



DL (P.20)



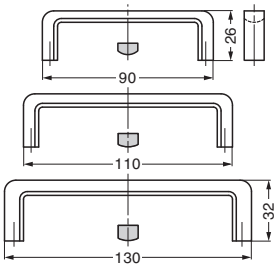
XL-JS (P.15)



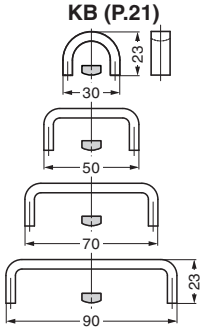
Approx. 100 mm

STAINLESS STEEL HANDLE SERIES

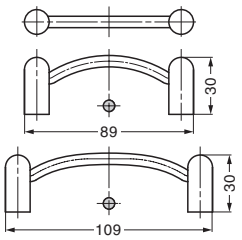
FB (P.22)



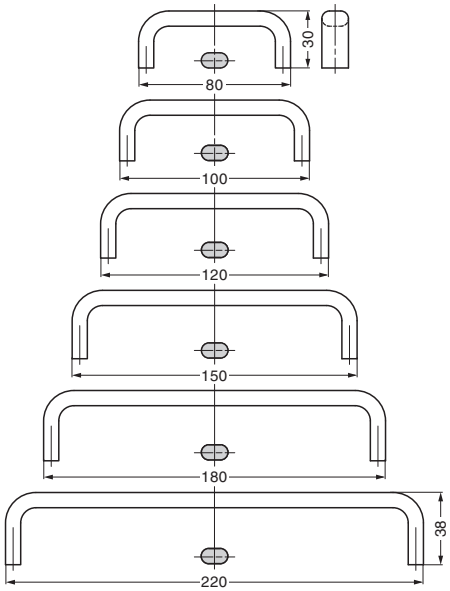
KB (P.21)



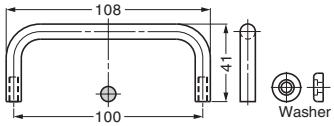
LX (P.17)



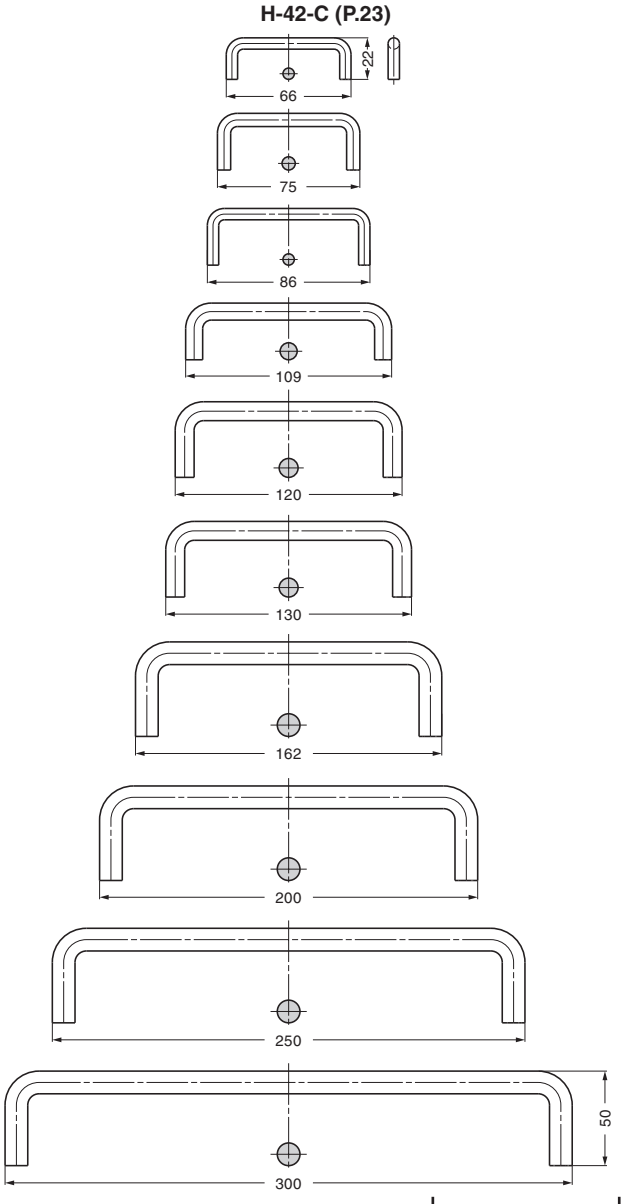
EC (P.21)



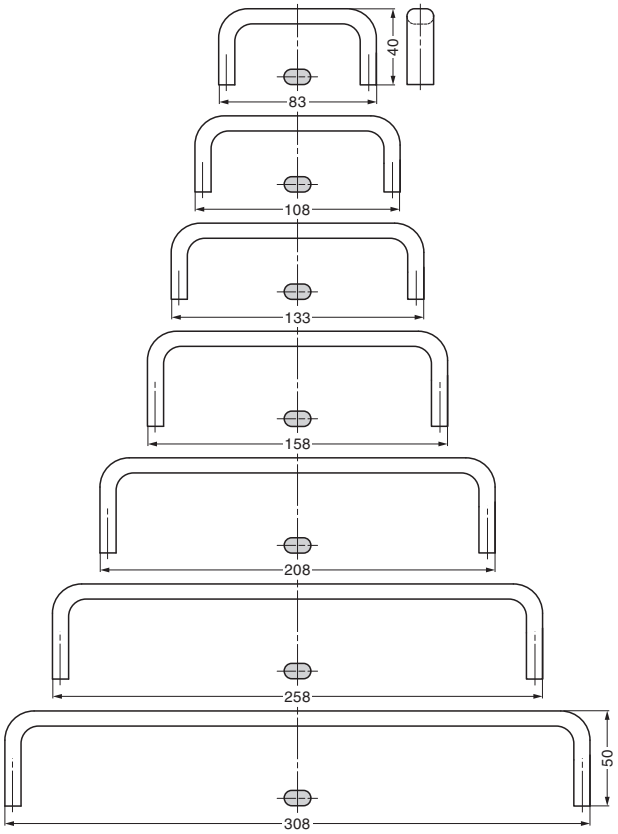
T-100-8 (P.23)



H-42-C (P.23)



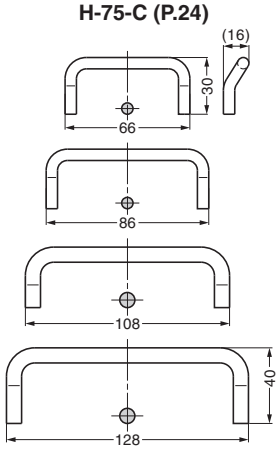
ECH (P.22)



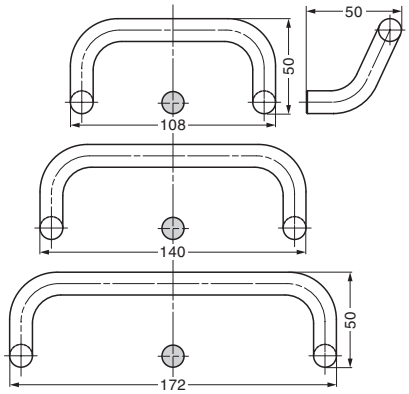
Approx.100 mm

STAINLESS STEEL HANDLE SERIES

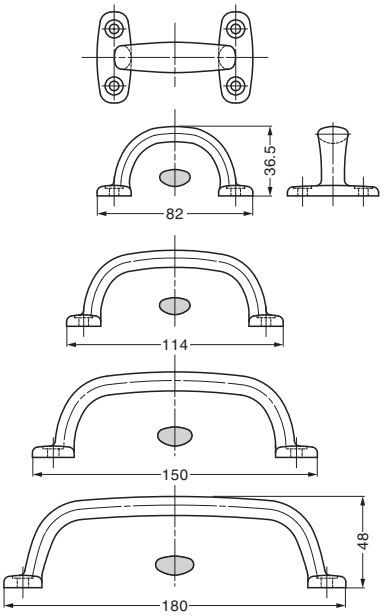
H-75-C (P.24)



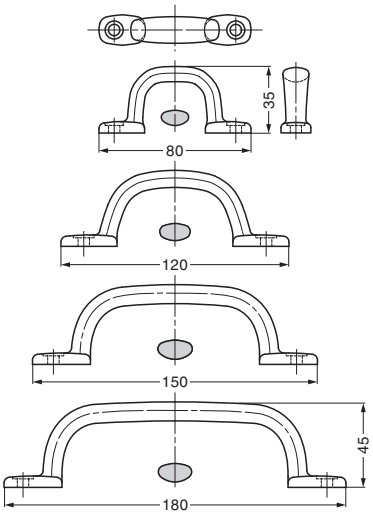
LF-12 (P.24)



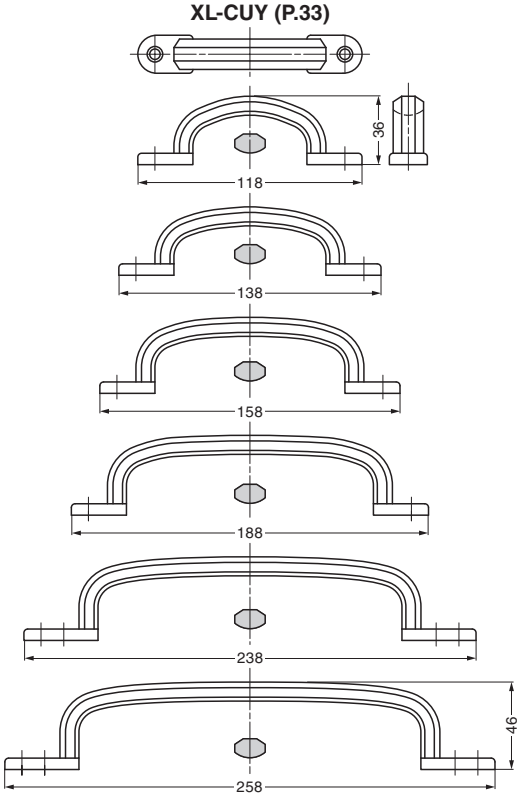
4LC (P.30)



2LC (P.30)



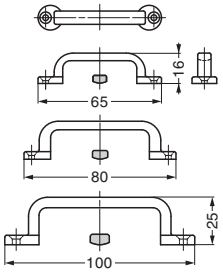
XL-CUY (P.33)



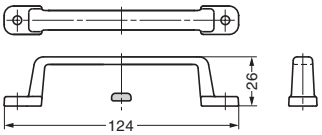
Approx. 100 mm

STAINLESS STEEL HANDLE SERIES

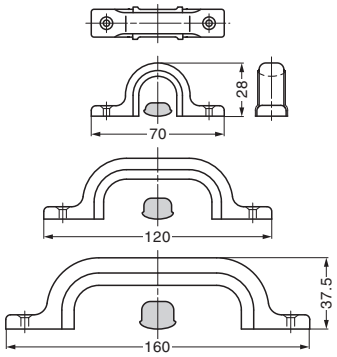
FT-65, FT-80, FT-100 (P.32)



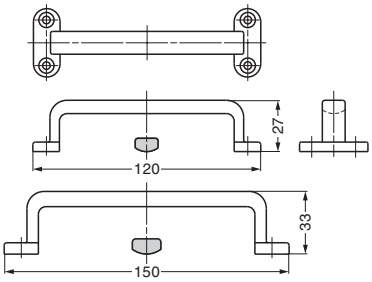
FT-110S (P.33)



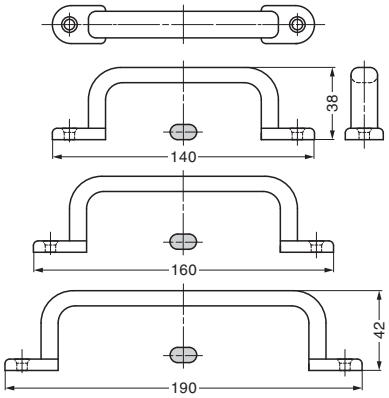
US (P.35)



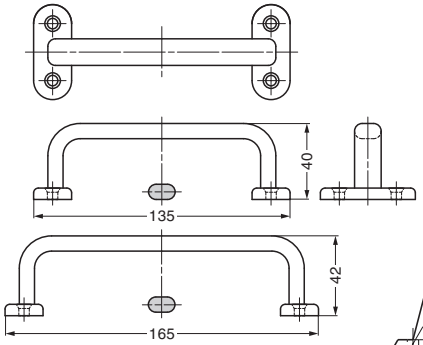
FT-120, FT-150 (P.32)



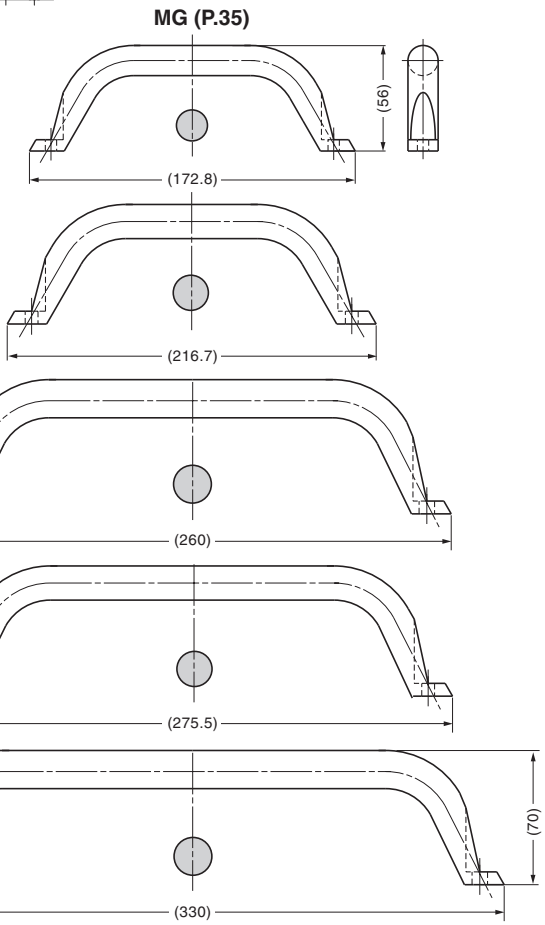
EC-Y (P.31)



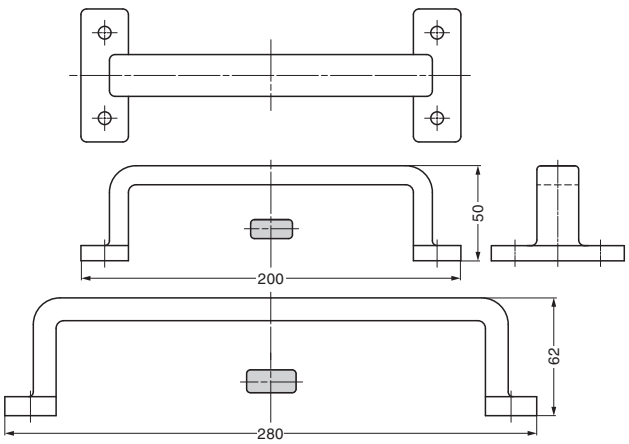
EC-H (P.31)



MG (P.35)



FT-200, FT-280 (P.34)



Approx. 100 mm



STAINLESS STEEL HANDLE

STAINLESS 316 STEEL · STAINLESS

ZL-2001

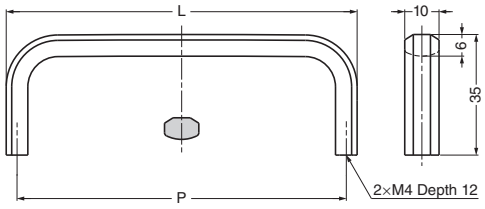


■Features

Superior finish of Mirror/Satin.

■Parts Included

Truss head screw M4×30 (SUS)



Item Code	Item Name	Material	Finish	L	P	Weight	Box
100-011-000	ZL-2001- 32	Stainless Steel (SUS316)	Zwei L Finish	38	32	49 g	20 pcs
100-011-001	ZL-2001- 64	Stainless Steel (SUS316)	Zwei L Finish	70	64	63 g	12 pcs
100-011-002	ZL-2001- 96	Stainless Steel (SUS316)	Zwei L Finish	102	96	75 g	12 pcs
100-011-003	ZL-2001-128	Stainless Steel (SUS316)	Zwei L Finish	134	128	89 g	10 pcs
100-011-037	ZL-2001-160	Stainless Steel (SUS316)	Zwei L Finish	166	160	108 g	10 pcs
100-011-038	ZL-2001-192	Stainless Steel (SUS316)	Zwei L Finish	198	192	130 g	6 pcs
100-011-039	ZL-2001-256	Stainless Steel (SUS316)	Zwei L Finish	262	256	164 g	6 pcs

STAINLESS STEEL HANDLE

ZL-2002

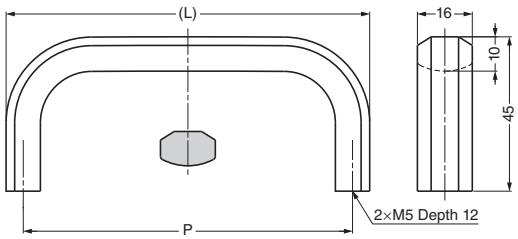


■Features

Superior finish of Mirror/Satin.

■Parts Included

Truss head screw M5×30 (SUS)



Item Code	Item Name	Material	Finish	L	P	Weight	Box
100-011-004	ZL-2002- 96	Stainless Steel (SUS316)	Zwei L Finish	106	96	165 g	12 pcs
100-011-005	ZL-2002-128	Stainless Steel (SUS316)	Zwei L Finish	138	128	232 g	12 pcs
100-011-006	ZL-2002-160	Stainless Steel (SUS316)	Zwei L Finish	170	160	242 g	12 pcs
100-011-007	ZL-2002-192	Stainless Steel (SUS316)	Zwei L Finish	202	192	305 g	6 pcs
100-011-008	ZL-2002-256	Stainless Steel (SUS316)	Zwei L Finish	266	256	353 g	6 pcs
100-011-009	ZL-2002-320	Stainless Steel (SUS316)	Zwei L Finish	330	320	482 g	6 pcs
100-014-431	ZL-2002-416	Stainless Steel (SUS316)	Zwei L Finish	426	416	491 g	4 pcs
100-014-432	ZL-2002-512	Stainless Steel (SUS316)	Zwei L Finish	522	512	587 g	4 pcs

BRACKET FOR STAINLESS STEEL HANDLE

ZL-2301



■Features

- Bracket for installing ZL-2001 and ZL-2002 on glass door.
- Superior finish of Mirror/Satin.
- For glass door of 4, 5 and 6 mm thickness.

■Bracket Set for ZL-2001 ϕ16 (w/Screw)

Item Code	Item Name
100-010-978	ZL-2301-2016

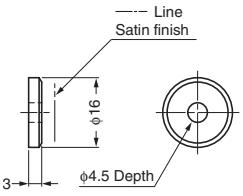
No.	Part Name	Material	Finish/Colour	Box
①	Bracket (ϕ16)	Stainless Steel (SUS316)	Zwei L Finish	2 pcs
③	Gasket (ϕ14)	Elastomer (TPE)	Clear	4 pcs
⑤	Truss Head Screw M4×16	Stainless Steel	Zwei L Finish	2 pcs

■Bracket Set for ZL-2002 ϕ25 (w/Screw)

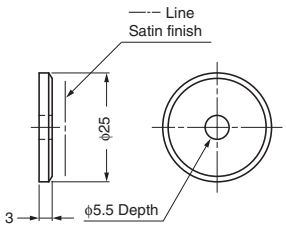
Item Code	Item Name
100-010-979	ZL-2301-2025

No.	Part Name	Material	Finish/Colour	Box
②	Bracket (ϕ25)	Stainless Steel (SUS316)	Zwei L Finish	2 pcs
③	Gasket (ϕ14)	Elastomer (TPE)	Clear	2 pcs
④	Gasket (ϕ20)	Elastomer (TPE)	Clear	2 pcs
⑥	Truss Head Screw M5×16	Stainless Steel	Zwei L Finish	2 pcs

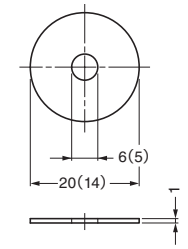
①Bracket (ϕ16)



② Bracket (ϕ25)

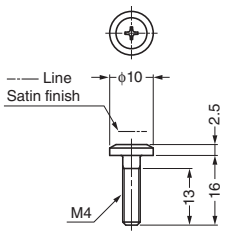


③Gasket (ϕ14)
④Gasket (ϕ20)



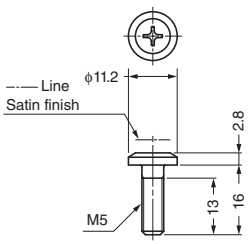
Above shows ④. Size for ③ shows in ( ).

⑤ Truss head screw M4×16



Glass cut out dimension: ϕ5 (Glass thickness 4, 5)
ϕ6 (Glass thickness 6)

⑥ Truss head screw M5×16

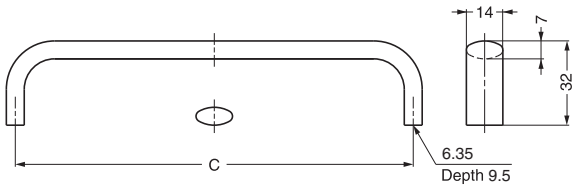


Glass cut out dimension: ϕ6

STAINLESS STEEL HANDLE

EK-S



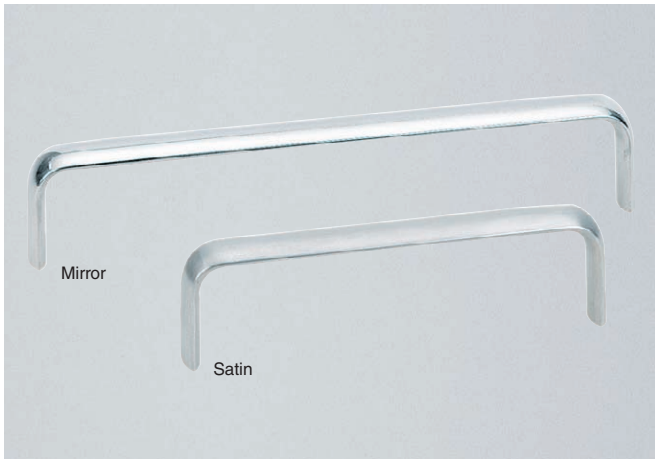


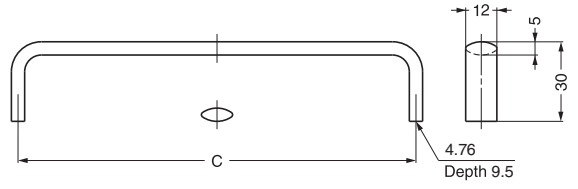
Item Code		Item Name		C	Weight	Box	Carton
100-023-426	100-023-430	EK-S635/M	EK-S635/S	88.9	106 g	20 pcs	200 pcs
100-023-427	100-023-431	EK-S640/M	EK-S640/S	101.6	116 g		
100-023-428	100-023-432	EK-S650/M	EK-S650/S	127	134 g		
100-023-429	100-023-433	EK-S660/M	EK-S660/S	152.4	152 g		

Material	Finish
316 Stainless Steel	Mirror (M) Satin (S)

STAINLESS STEEL HANDLE

KC-S





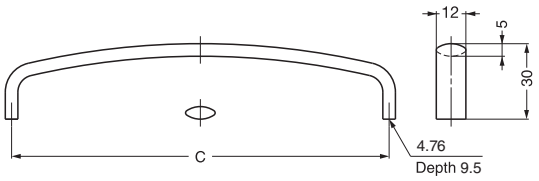
Item Code		Item Name		C	Weight	Box	Carton
100-023-410	100-023-414	KC-S635/M	KC-S635/S	88.9	67 g	20 pcs	200 pcs
100-023-411	100-023-415	KC-S640/M	KC-S640/S	101.6	71 g		
100-023-412	100-023-416	KC-S650/M	KC-S650/S	127	85 g		
100-023-413	100-023-417	KC-S660/M	KC-S660/S	152.4	95 g		

Material	Finish
316 Stainless Steel	Mirror (M) Satin (S)

STAINLESS STEEL HANDLE

KC-R





Item Code		Item Name		C	Weight	Box	Carton
100-023-418	100-023-422	KC-R635/M	KC-R635/S	88.9	60 g	20 pcs	200 pcs
100-023-419	100-023-423	KC-R640/M	KC-R640/S	101.6	67 g		
100-023-420	100-023-424	KC-R650/M	KC-R650/S	127	78 g		
100-023-421	100-023-425	KC-R660/M	KC-R660/S	152.4	88 g		

Material	Finish
316 Stainless Steel	Mirror (M) Satin (S)

STAINLESS STEEL HANDLE

XL-JS

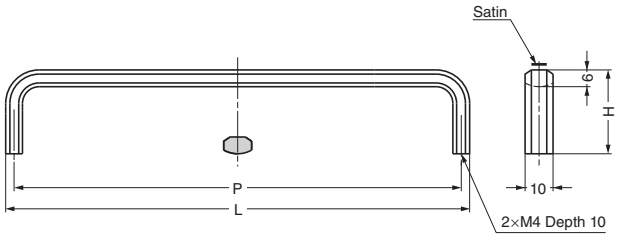


■**Features**

Finish: Combination of Mirror and Satin.

■**Parts Included**

Truss head screw M4×25 (SUS)



Item Code	Item Name	Material	Finish	L	P	H	Weight	Box	Carton
100-012-792	XL-JS165TT	Stainless Steel (SUS316)	Mirror and Satin Combination	166	160	30	87 g	15 pcs	150 pcs
100-012-793	XL-JS260TT	Stainless Steel (SUS316)	Mirror and Satin Combination	260	254	33	130 g	10 pcs	100 pcs
100-012-794	XL-JS360TT	Stainless Steel (SUS316)	Mirror and Satin Combination	358	352	36	173 g	10 pcs	100 pcs

STAINLESS STEEL HANDLE

XL-JSR

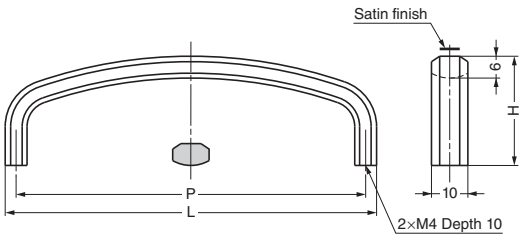


■Features

Finish: Combination of Mirror and Satin.

■Parts Included

Truss head screw M4×25 (SUS)



Item Code	Item Name	Material	Finish	L	P	H	Weight	Box	Carton
100-012-795	XL-JSR 40TT	Stainless Steel (SUS316)	Mirror and Satin Combination	38	32	27	33 g	30 pcs	300 pcs
100-012-796	XL-JSR 70TT	Stainless Steel (SUS316)	Mirror and Satin Combination	70	64	30	45 g	20 pcs	200 pcs
100-012-797	XL-JSR100TT	Stainless Steel (SUS316)	Mirror and Satin Combination	102	96	30	57 g	20 pcs	200 pcs
100-012-798	XL-JSR135TT	Stainless Steel (SUS316)	Mirror and Satin Combination	134	128	30	69 g	15 pcs	150 pcs

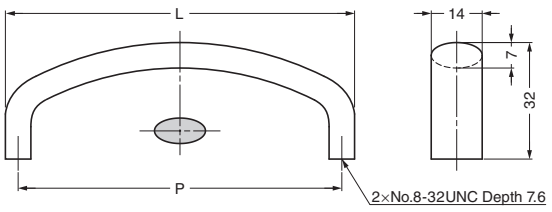
STAINLESS STEEL HANDLE

EK-R



■Parts Included

Truss head screw No.8-32UNC×25 (SUS)



Item Code	Item Name	Material	Finish	L	P	Weight	Box	Carton
100-010-460	EK-R635/M	Stainless Steel (SUS316)	Mirror	95.9	88.9	95 g	20 pcs	200 pcs
100-010-464	EK-R635/S	Stainless Steel (SUS316)	Satin	95.9	88.9	95 g	20 pcs	200 pcs
100-010-461	EK-R640/M	Stainless Steel (SUS316)	Mirror	108.6	101.6	106 g	20 pcs	200 pcs
100-010-465	EK-R640/S	Stainless Steel (SUS316)	Satin	108.6	101.6	106 g	20 pcs	200 pcs
100-010-462	EK-R650/M	Stainless Steel (SUS316)	Mirror	134	127	123 g	20 pcs	200 pcs
100-010-466	EK-R650/S	Stainless Steel (SUS316)	Satin	134	127	123 g	20 pcs	200 pcs
100-010-463	EK-R660/M	Stainless Steel (SUS316)	Mirror	159.4	152.4	141 g	20 pcs	200 pcs
100-010-467	EK-R660/S	Stainless Steel (SUS316)	Satin	159.4	152.4	141 g	20 pcs	200 pcs

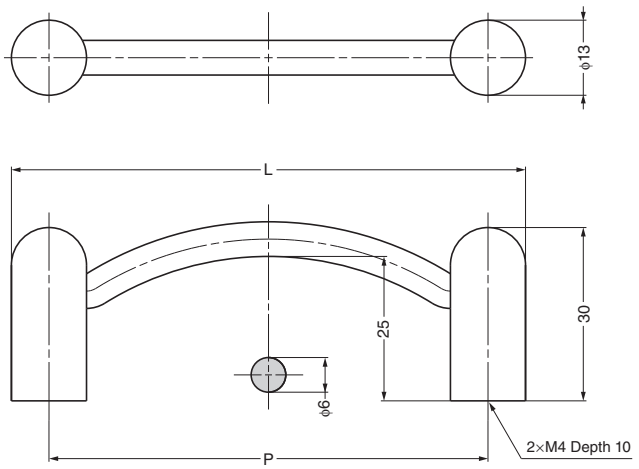
STAINLESS STEEL HANDLE

LX



■Parts Included

Truss head screw M4×25 (SUS)



Item Code	Item Name	Material	Finish	L	P	Weight	Box	Carton
100-010-425	LX- 90M	Stainless Steel (SUS304)	Mirror	89	76	75 g	10 pcs	160 pcs
100-010-426	LX-110M	Stainless Steel (SUS304)	Mirror	109	96	80 g	10 pcs	160 pcs

STAINLESS STEEL HANDLE

XL-CU

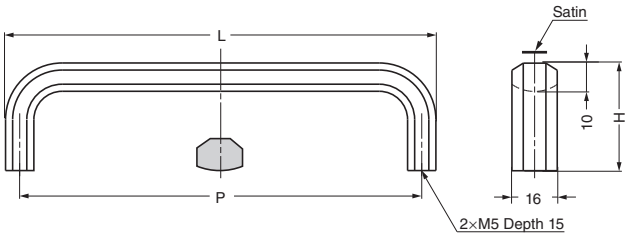


■Features

Finish: Combination of Mirror and Satin.

■Parts Included

Truss head screw M5×30 (SUS)



Item Code	Item Name	Material	Finish	L	H	P	Weight	Box	Carton
100-010-470	XL-CU 80TT	Stainless Steel (SUS303)	Mirror and Satin Combination	82	32	72	125 g	10 pcs	100 pcs
100-010-471	XL-CU100TT	Stainless Steel (SUS303)	Mirror and Satin Combination	102	34	92	151 g	10 pcs	100 pcs
100-010-472	XL-CU120TT	Stainless Steel (SUS303)	Mirror and Satin Combination	122	36	112	178 g	10 pcs	100 pcs
100-010-473	XL-CU150TT	Stainless Steel (SUS303)	Mirror and Satin Combination	152	38	142	215 g	8 pcs	80 pcs
100-010-474	XL-CU180TT	Stainless Steel (SUS303)	Mirror and Satin Combination	182	40	172	286 g	8 pcs	80 pcs
100-010-475	XL-CU220TT	Stainless Steel (SUS303)	Mirror and Satin Combination	222	42	212	309 g	8 pcs	40 pcs
100-010-476	XL-CU300TT	Stainless Steel (SUS303)	Mirror and Satin Combination	302	44	292	392 g	6 pcs	30 pcs

STAINLESS STEEL HANDLE

XL-CUR

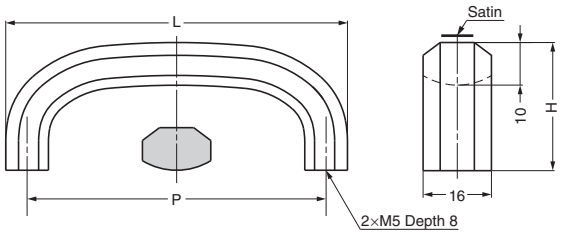


■Features

Finish: Combination of Mirror and Satin.

■Parts Included

Truss head screw M5×25



Item Code	Item Name	Material	Finish	L	H	P	Weight	Box	Carton
100-012-825	XL-CUR 80TT	Stainless Steel (SUS303)	Mirror and Satin Combination	80	30	70	115 g	10 pcs	150 pcs
100-012-826	XL-CUR100TT	Stainless Steel (SUS303)	Mirror and Satin Combination	100	32	90	137 g	10 pcs	150 pcs
100-012-827	XL-CUR120TT	Stainless Steel (SUS303)	Mirror and Satin Combination	120	34	110	160 g	10 pcs	100 pcs
100-012-828	XL-CUR150TT	Stainless Steel (SUS303)	Mirror and Satin Combination	150	36	140	196 g	5 pcs	75 pcs

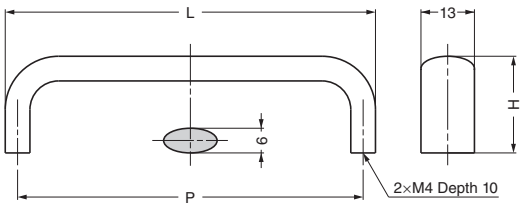
STAINLESS STEEL HANDLE

DL-SUS304



■Parts Included

Truss head screw M4×28 (SUS)



Item Code	Item Name	Material	Finish	L	H	P	Weight	Box	Carton
100-904-563	DL- 70S-SUS304	Stainless Steel (SUS304)	Satin	70	23	64	51 g	20 pcs	200 pcs
100-904-562	DL- 70M-SUS304	Stainless Steel (SUS304)	Mirror	70	23	64	51 g	20 pcs	200 pcs
100-904-565	DL- 90S-SUS304	Stainless Steel (SUS304)	Satin	90	23.5	84	61 g	20 pcs	200 pcs
100-904-564	DL- 90M-SUS304	Stainless Steel (SUS304)	Mirror	90	23.5	84	61 g	20 pcs	200 pcs
100-904-567	DL-110S-SUS304	Stainless Steel (SUS304)	Satin	110	24	104	73 g	15 pcs	150 pcs
100-904-566	DL-110M-SUS304	Stainless Steel (SUS304)	Mirror	110	24	104	73 g	15 pcs	150 pcs
100-904-569	DL-130S-SUS304	Stainless Steel (SUS304)	Satin	130	24.5	124	83 g	15 pcs	150 pcs
100-904-568	DL-130M-SUS304	Stainless Steel (SUS304)	Mirror	130	24.5	124	83 g	15 pcs	150 pcs
100-904-571	DL-150S-SUS304	Stainless Steel (SUS304)	Satin	150	25	144	93 g	15 pcs	150 pcs
100-904-570	DL-150M-SUS304	Stainless Steel (SUS304)	Mirror	150	25	144	93 g	15 pcs	150 pcs

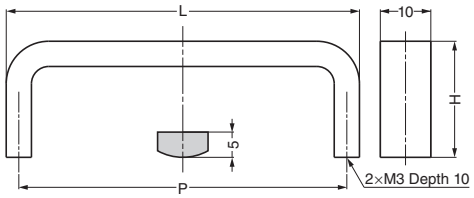
STAINLESS STEEL HANDLE

KB-SUS304

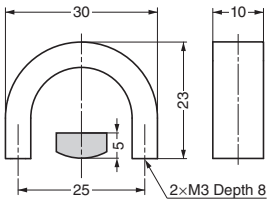


■Parts Included

Truss head screw M3×28 (SUS)



KB-50, KB-70, KB-90



KB-30

Item Code	Item Name	Material	Finish	L	H	P	Weight	Box	Carton
100-904-581	KB-30S-SUS304	Stainless Steel (SUS304)	Satin	As Above			22 g	40 pcs	400 pcs
100-904-580	KB-30M-SUS304	Stainless Steel (SUS304)	Mirror				22 g	40 pcs	400 pcs
100-904-583	KB-50S-SUS304	Stainless Steel (SUS304)	Satin	50	22	45	29 g	30 pcs	300 pcs
100-904-582	KB-50M-SUS304	Stainless Steel (SUS304)	Mirror	50	22	45	29 g	30 pcs	300 pcs
100-904-585	KB-70S-SUS304	Stainless Steel (SUS304)	Satin	70	22.5	65	35 g	30 pcs	300 pcs
100-904-584	KB-70M-SUS304	Stainless Steel (SUS304)	Mirror	70	22.5	65	35 g	30 pcs	300 pcs
100-904-587	KB-90S-SUS304	Stainless Steel (SUS304)	Satin	90	23	85	44 g	20 pcs	200 pcs
100-904-586	KB-90M-SUS304	Stainless Steel (SUS304)	Mirror	90	23	85	44 g	20 pcs	200 pcs

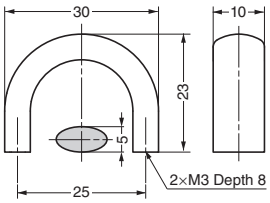
STAINLESS STEEL HANDLE

DS-SUS304

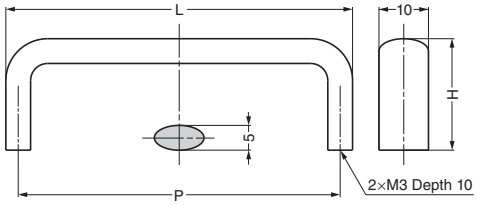


■Parts Included

Truss head screw M3×28 (SUS)



DS-30



DS-50, DS-70, DS-90

Item Code	Item Name	Material	Finish	L	H	P	Weight	Box	Carton
100-904-573	DS-30S-SUS304	Stainless Steel (SUS304)	Satin	As Above			19 g	40 pcs	400 pcs
100-904-572	DS-30M-SUS304	Stainless Steel (SUS304)	Mirror				19 g	40 pcs	400 pcs
100-904-575	DS-50S-SUS304	Stainless Steel (SUS304)	Satin	50	22	45	26 g	30 pcs	300 pcs
100-904-574	DS-50M-SUS304	Stainless Steel (SUS304)	Mirror	50	22	45	26 g	30 pcs	300 pcs
100-904-577	DS-70S-SUS304	Stainless Steel (SUS304)	Satin	70	22.5	65	32 g	30 pcs	300 pcs
100-904-576	DS-70M-SUS304	Stainless Steel (SUS304)	Mirror	70	22.5	65	32 g	30 pcs	300 pcs
100-904-579	DS-90S-SUS304	Stainless Steel (SUS304)	Satin	90	23	85	37 g	20 pcs	200 pcs
100-904-578	DS-90M-SUS304	Stainless Steel (SUS304)	Mirror	90	23	85	37 g	20 pcs	200 pcs

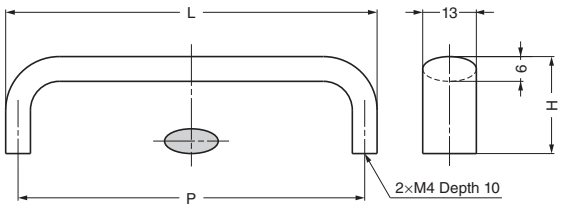
STAINLESS STEEL HANDLE

DL



■Parts Included

Truss head screw M4×28



Item Code	Item Name	Material	Finish	L	H	P	Weight	Box	Carton
100-011-102	DL- 70S	Stainless Steel (SUS303)	Satin	70	23	64	50 g	20 pcs	200 pcs
100-011-101	DL- 70M	Stainless Steel (SUS303)	Mirror	70	23	64	50 g	20 pcs	200 pcs
100-011-104	DL- 90S	Stainless Steel (SUS303)	Satin	90	23.5	84	60 g	20 pcs	200 pcs
100-011-103	DL- 90M	Stainless Steel (SUS303)	Mirror	90	23.5	84	60 g	20 pcs	200 pcs
100-011-106	DL-110S	Stainless Steel (SUS303)	Satin	110	24	104	70 g	15 pcs	150 pcs
100-011-105	DL-110M	Stainless Steel (SUS303)	Mirror	110	24	104	70 g	15 pcs	150 pcs
100-011-108	DL-130S	Stainless Steel (SUS303)	Satin	130	24.5	124	80 g	15 pcs	150 pcs
100-011-107	DL-130M	Stainless Steel (SUS303)	Mirror	130	24.5	124	80 g	15 pcs	150 pcs
100-011-110	DL-150S	Stainless Steel (SUS303)	Satin	150	25	144	95 g	15 pcs	150 pcs
100-011-109	DL-150M	Stainless Steel (SUS303)	Mirror	150	25	144	95 g	15 pcs	150 pcs

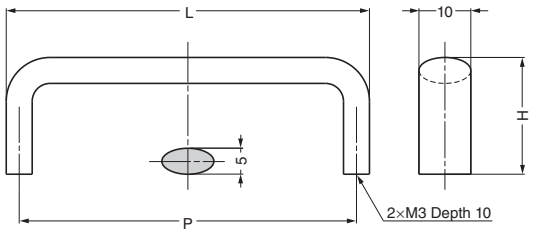
STAINLESS STEEL HANDLE

DS

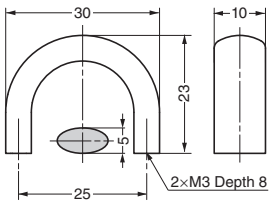


■Parts Included

Truss head screw M3×28



DS-50, DS-70, DS-90

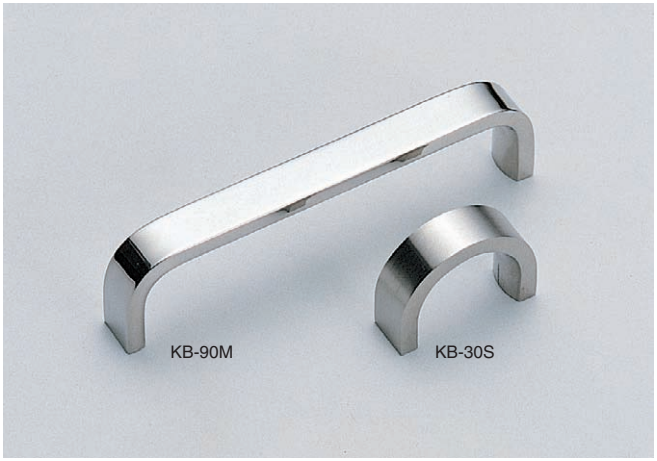


DS-30

Item Code	Item Name	Material	Finish	L	H	P	Weight	Box	Carton
100-011-112	DS-30S	Stainless Steel (SUS303)	Satin	As Above			20 g	40 pcs	400 pcs
100-011-111	DS-30M	Stainless Steel (SUS303)	Mirror				20 g	40 pcs	400 pcs
100-011-114	DS-50S	Stainless Steel (SUS303)	Satin	50	22	45	25 g	30 pcs	300 pcs
100-011-113	DS-50M	Stainless Steel (SUS303)	Mirror	50	22	45	25 g	30 pcs	300 pcs
100-011-116	DS-70S	Stainless Steel (SUS303)	Satin	70	22.5	65	32 g	30 pcs	300 pcs
100-011-115	DS-70M	Stainless Steel (SUS303)	Mirror	70	22.5	65	32 g	30 pcs	300 pcs
100-011-118	DS-90S	Stainless Steel (SUS303)	Satin	90	23	85	39 g	20 pcs	200 pcs
100-011-117	DS-90M	Stainless Steel (SUS303)	Mirror	90	23	85	39 g	20 pcs	200 pcs

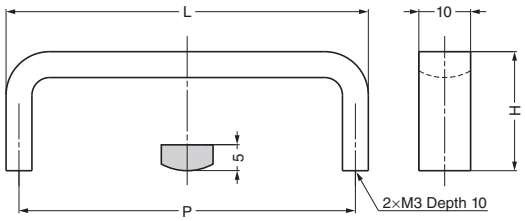
STAINLESS STEEL HANDLE

KB

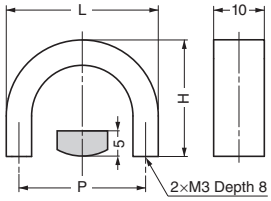


■Parts Included

Truss head screw M3×28



KB-50, KB-70, KB-90



KB-30

Item Code	Item Name	Material	Finish	L	H	P	Weight	Box	Carton
100-011-094	KB-30S	Stainless Steel (SUS303)	Satin	30	23	25	22 g	40 pcs	400 pcs
100-011-093	KB-30M	Stainless Steel (SUS303)	Mirror	30	23	25	22 g	40 pcs	400 pcs
100-011-096	KB-50S	Stainless Steel (SUS303)	Satin	50	22	45	30 g	30 pcs	300 pcs
100-011-095	KB-50M	Stainless Steel (SUS303)	Mirror	50	22	45	30 g	30 pcs	300 pcs
100-011-098	KB-70S	Stainless Steel (SUS303)	Satin	70	22.5	65	37 g	30 pcs	300 pcs
100-011-097	KB-70M	Stainless Steel (SUS303)	Mirror	70	22.5	65	37 g	30 pcs	300 pcs
100-011-100	KB-90S	Stainless Steel (SUS303)	Satin	90	23	85	48 g	20 pcs	200 pcs
100-011-099	KB-90M	Stainless Steel (SUS303)	Mirror	90	23	85	48 g	20 pcs	200 pcs

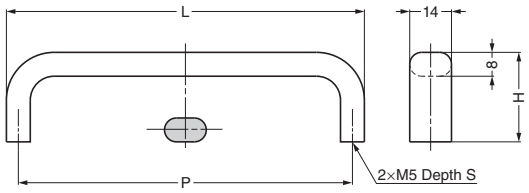
STAINLESS STEEL HANDLE

EC



■Parts Included

Truss head screw M5×28



Item Code	Item Name	Material	Finish	L	H	P	S	Weight	Box	Carton
100-017-232	EC- 80S	Stainless Steel (SUS304)	Satin	80	30	72	10	94 g	20 pcs	200 pcs
100-017-226	EC- 80M	Stainless Steel (SUS304)	Mirror	80	30	72	10	94 g	20 pcs	200 pcs
100-017-233	EC-100S	Stainless Steel (SUS304)	Satin	100	32	92	10	115 g	15 pcs	150 pcs
100-017-227	EC-100M	Stainless Steel (SUS304)	Mirror	100	32	92	10	115 g	15 pcs	150 pcs
100-017-234	EC-120S	Stainless Steel (SUS304)	Satin	120	34	112	12	130 g	15 pcs	150 pcs
100-017-228	EC-120M	Stainless Steel (SUS304)	Mirror	120	34	112	12	130 g	15 pcs	150 pcs
100-017-235	EC-150S	Stainless Steel (SUS304)	Satin	150	36	142	12	157 g	10 pcs	100 pcs
100-017-229	EC-150M	Stainless Steel (SUS304)	Mirror	150	36	142	12	157 g	10 pcs	100 pcs
100-017-236	EC-180S	Stainless Steel (SUS304)	Satin	180	37	172	12	183 g	10 pcs	100 pcs
100-010-049	EC-180M	Stainless Steel (SUS304)	Mirror	180	37	172	12	183 g	10 pcs	100 pcs
100-017-237	EC-220S	Stainless Steel (SUS304)	Satin	220	38	212	12	216 g	8 pcs	80 pcs
100-010-050	EC-220M	Stainless Steel (SUS304)	Mirror	220	38	212	12	216 g	8 pcs	80 pcs

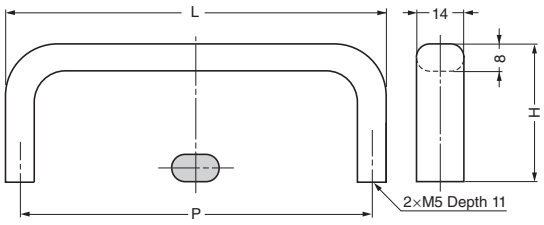
STAINLESS STEEL HANDLE

ECH



■Parts Included

Truss head screw M5×28



Item Code	Item Name	Material	Finish	L	H	P	Weight	Box	Carton
100-017-249	ECH- 75S	Stainless Steel (SUS303)	Satin	83	40	75	110 g	10 pcs	100 pcs
100-017-241	ECH- 75M	Stainless Steel (SUS303)	Mirror	83	40	75	110 g	10 pcs	100 pcs
100-017-252	ECH-100S	Stainless Steel (SUS303)	Satin	108	40	100	135 g	15 pcs	150 pcs
100-017-242	ECH-100M	Stainless Steel (SUS303)	Mirror	108	40	100	135 g	15 pcs	150 pcs
100-017-251	ECH-125S	Stainless Steel (SUS303)	Satin	133	40	125	153 g	10 pcs	100 pcs
100-017-243	ECH-125M	Stainless Steel (SUS303)	Mirror	133	40	125	153 g	10 pcs	100 pcs
100-017-244	ECH-150M	Stainless Steel (SUS303)	Mirror	158	50	150	190 g	7 pcs	70 pcs
100-017-245	ECH-200M	Stainless Steel (SUS303)	Mirror	208	50	200	244 g	10 pcs	100 pcs
100-017-246	ECH-250M	Stainless Steel (SUS303)	Mirror	258	50	250	280 g	5 pcs	50 pcs
100-017-247	ECH-300M	Stainless Steel (SUS303)	Mirror	308	50	300	306 g	5 pcs	50 pcs

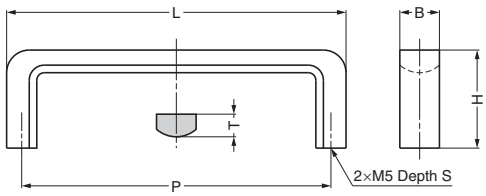
STAINLESS STEEL HANDLE

FB



■Parts Included

Pan-head screw M5×25



Item Code	Item Name	Material	Finish	L	H	B	T	P	S	Weight	Box	Carton
100-010-074	FB- 90	Stainless Steel (SCS13)	Mirror	90	26	10.5	6	82	10	45 g	35 pcs	280 pcs
100-010-075	FB-110	Stainless Steel (SCS13)	Mirror	110	28	12.5	7	102	12	100 g	25 pcs	200 pcs
100-010-076	FB-130	Stainless Steel (SCS13)	Mirror	130	32	14.5	8	120	14	110 g	20 pcs	160 pcs

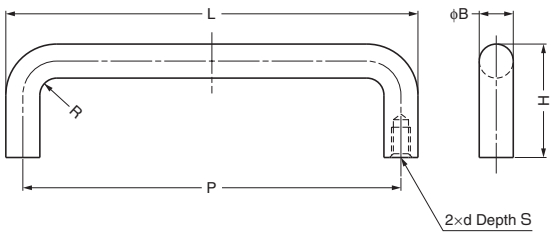
※SCS13 is equivalent of SUS304.

STAINLESS STEEL HANDLE

STAINLESS 304 STEEL

H-42-C





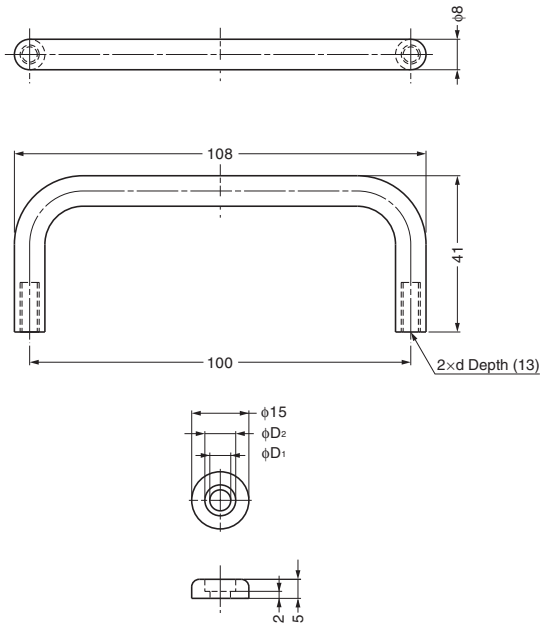
Item Code	Item Name	Material	Finish	L	H	B	P	R	d	S	Weight	Box	Carton
100-010-560	H-42-C- 8	Stainless Steel (SUS304)	Mirror	66	22	6	60	3	M4	7	18 g	100 pcs	500 pcs
100-010-562	H-42-C-14	Stainless Steel (SUS304)	Mirror	86	30	6	80	3	M4	7	25 g	50 pcs	250 pcs
100-010-561	H-42-C- 1	Stainless Steel (SUS304)	Mirror	75	30	7	68	3.5	M5	8	30 g	50 pcs	250 pcs
100-010-563	H-42-C- 2	Stainless Steel (SUS304)	Mirror	109	30	9	100	4.5	M5	8	65 g	50 pcs	150 pcs
100-010-564	H-42-C- 3	Stainless Steel (SUS304)	Mirror	120	40	10	110	5	M6	8	100 g	50 pcs	150 pcs
100-010-565	H-42-C- 4	Stainless Steel (SUS304)	Mirror	130	40	10	120	5	M6	8	105 g	50 pcs	150 pcs
100-010-566	H-42-C-15	Stainless Steel (SUS304)	Mirror	162	50	12	150	6	M8	10	185 g	30 pcs	60 pcs
100-010-567	H-42-C- 5	Stainless Steel (SUS304)	Mirror	200	50	12	188	6	M8	10	220 g	30 pcs	60 pcs
100-010-568	H-42-C- 6	Stainless Steel (SUS304)	Mirror	250	50	12	238	6	M8	10	265 g	20 pcs	40 pcs
100-010-569	H-42-C- 7	Stainless Steel (SUS304)	Mirror	300	50	12	288	6	M8	10	300 g	20 pcs	40 pcs

HANDLE

STAINLESS 304 STEEL

T-100-8

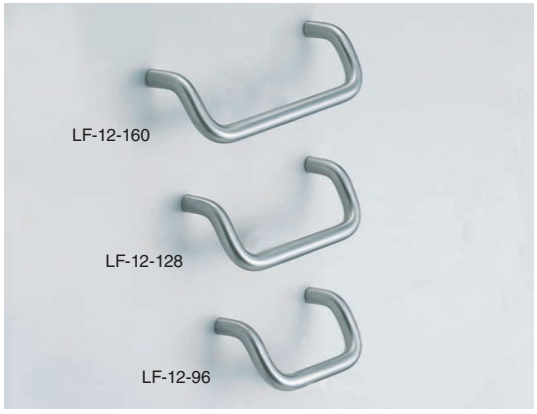




Item Code	Item Name	Material	Finish	d	D_1	D_2	Weight	Box	Carton
100-010-224	T-100-8S	Stainless Steel (SUS304)	Mirror	M5	5.5	8.2	72 g	10 pcs	300 pcs
100-019-855	T-100-8CR	Brass	Chrome	M4	4.5	8	78 g	50 pcs	—

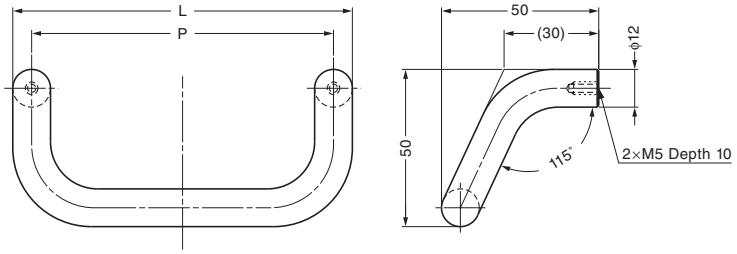
STAINLESS STEEL HANDLE

LF-12



■Parts Included

Truss head screw M5×30

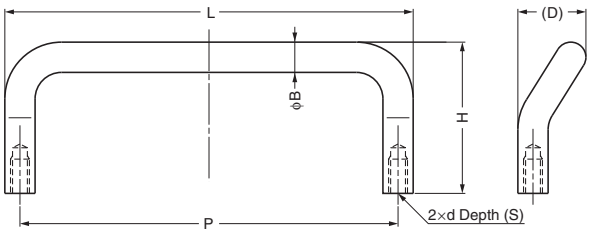


Item Code	Item Name	Material	Finish	L	P	Weight	Box
100-010-520	LF-12- 96	Stainless Steel (SUS304)	Satin	108	96	182 g	10 pcs
100-010-521	LF-12-128	Stainless Steel (SUS304)	Satin	140	128	211 g	10 pcs
100-010-522	LF-12-160	Stainless Steel (SUS304)	Satin	172	160	236 g	10 pcs

STAINLESS STEEL HANDLE

H-75-C

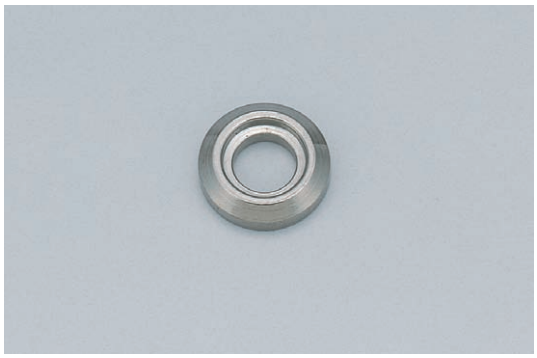




Item Code	Item Name	Material	Finish	L	H	D	B	P	d	S	Weight	Box	Carton
100-010-605	H-75-C- 66	Stainless Steel (SUS304)	Polished	66	30	16	6	60	M4	7	23 g	100 pcs	400 pcs
100-010-606	H-75-C- 86	Stainless Steel (SUS304)	Polished	86	31.5	16	6	80	M4	7	28 g	100 pcs	400 pcs
100-010-607	H-75-C-108	Stainless Steel (SUS304)	Polished	108	32	18	8	100	M5	10	54 g	50 pcs	200 pcs
100-010-608	H-75-C-128	Stainless Steel (SUS304)	Polished	128	40	18	8	120	M5	10	70 g	50 pcs	200 pcs

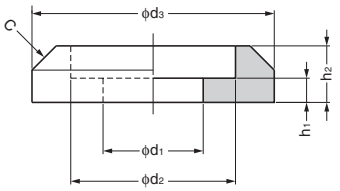
BRACKET FOR STAINLESS STEEL HANDLE

H-42-Z



■Features

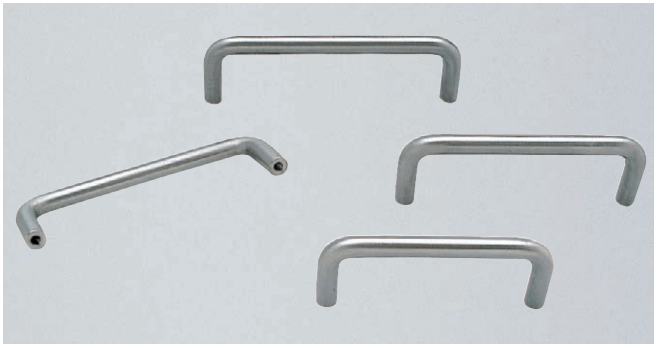
- Bracket for wire pull.
- Suitable sizes of Handle Diameter and screw are as below.

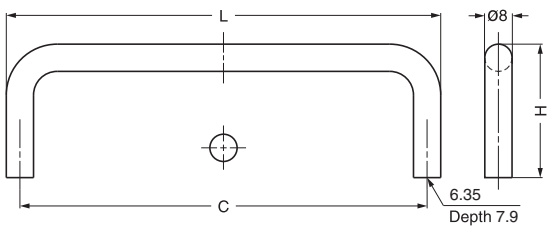


Item Code	Item Name	Material	Finish	h_1	h_2	d_1	d_2	d_3	c	Handle Diameter	Screw Size	1 Set	Weight	Box	Carton
100-010-570	H-42-Z- 6	Stainless Steel (SUS304)	Polished	1.5	2.5	4.5	6.2	10	1	φ 6	M4	2 pcs	2.1 g	200 sets	2,000 sets
100-010-571	H-42-Z- 7	Stainless Steel (SUS304)	Polished	1	3	5.2	7.2	10	1	φ 7	M5	2 pcs	2.0 g	200 sets	2,000 sets
100-010-572	H-42-Z- 9	Stainless Steel (SUS304)	Polished	1	3	5.2	9.2	13	1	φ 9	M5	2 pcs	3.5 g	200 sets	2,000 sets
100-010-573	H-42-Z-10	Stainless Steel (SUS304)	Polished	1.5	3.5	6.2	10.2	15	1.5	φ10	M6	2 pcs	6.0 g	200 sets	2,000 sets
100-010-574	H-42-Z-12	Stainless Steel (SUS304)	Polished	1.5	4.5	8.2	12.2	18	1.5	φ12	M8	2 pcs	11.8 g	200 sets	2,000 sets

STAINLESS STEEL WIRE PULL

SWP



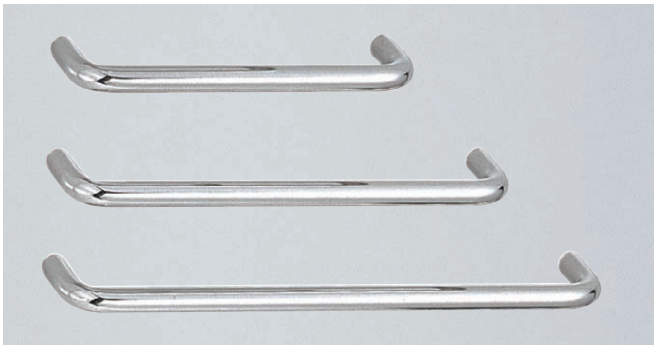


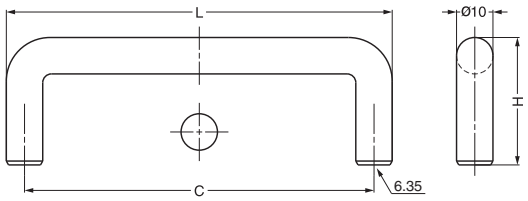
Item Code	Item Name	L	C	H	Weight	Box	Carton
100-023-434	SWP-630/S	84.2	76.2	34	71 g	20 pcs	200 pcs
100-023-435	SWP-635/S	96.9	88.9		78 g		
100-023-436	SWP-640/S	109.6	101.6		85 g		
100-023-437	SWP-696/S	104	96		81 g		

Material	Finish
316 Stainless Steel	Satin

STAINLESS STEEL WIRE PULL

SWF





Item Code	Item Name	L	C	H	Weight	Box	Carton
100-023-438	SWF- 640	111	101.5	35	90 g	20 pcs	200 pcs
100-023-439	SWF- 650	136.5	127		110 g		
100-023-440	SWF- 660	162	152.5		130 g		
100-023-441	SWF- 690	238	228.5		200 g		
100-023-442	SWF-6120	314.5	305		270 g		

Material	Finish
316 Stainless Steel	Satin

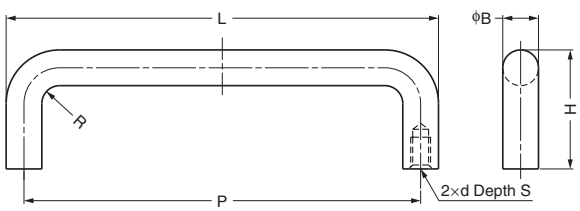
TITANIUM HANDLE

H-42-CT



■Recommended Screw

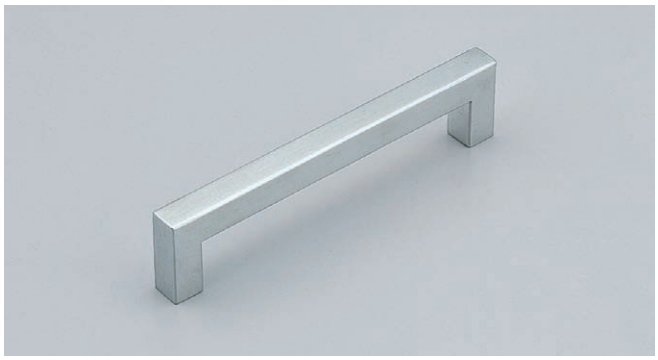
d×(Door thickness+5～S)



Item Code	Item Name	Material	Finish	L	H	B	P	R	d	S	Weight	Box	Carton
100-010-352	H-42-CT- 2	Titanium	Mirror	109	30	8	100	4.5	M5	8	37 g	20 pcs	80 pcs
100-010-351	H-42-CT- 4	Titanium	Mirror	130	40	10	120	5	M6	8	59 g	20 pcs	80 pcs
100-010-549	H-42-CT-15	Titanium	Mirror	162	50	12	150	6	M8	10	105 g	20 pcs	80 pcs

STAINLESS STEEL HANDLE

KPH

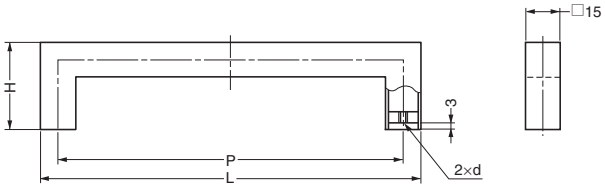


■Features

Light handle with hollow body.

■Recommended Screw

d×(Door thickness＋10～15)

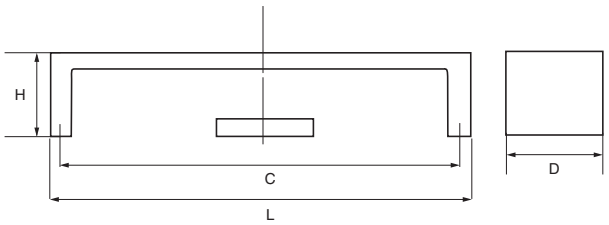


Item Code	Item Name	Material	Finish	L	H	P	d	Weight	Box	Carton
100-019-195	KPH-160	Stainless Steel (SUS304)	Satin	176	40	160	M4	80 g	10 pcs	100 pcs
100-019-196	KPH-192	Stainless Steel (SUS304)	Satin	208	40	192	M4	95 g	10 pcs	100 pcs
100-019-197	KPH-224	Stainless Steel (SUS304)	Satin	240	50	224	M5	125 g	10 pcs	100 pcs
100-019-198	KPH-256	Stainless Steel (SUS304)	Satin	272	50	256	M5	133 g	10 pcs	100 pcs
100-019-199	KPH-288	Stainless Steel (SUS304)	Satin	304	50	288	M5	142 g	10 pcs	100 pcs

STAINLESS STEEL HANDLE

40 SERIES



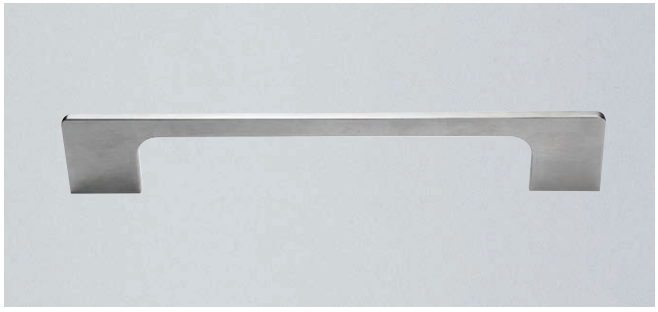


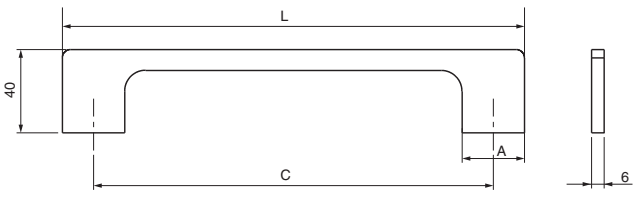
Item Code	Item Name	L	C	H	D	Weight	Box	Carton
—	40128	138	128	35	40	166 g	10 pcs	40 pcs
—	40160	170	160			198 g		
—	40192	202	192			219 g		

Material	Finish
304 Stainless Steel	Satin

STAINLESS STEEL HANDLE

DSI-110





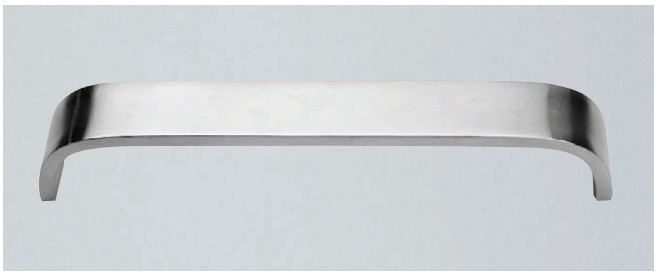


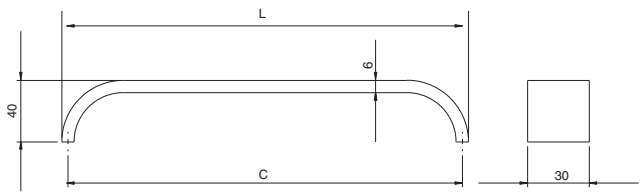
Item Code	Item Name	C	L	A	Weight	Box	Carton
—	DSI-110- 96	96	126	30	135 g	25 pcs	250 pcs
—	DSI-110-128	128	158		152 g		
—	DSI-110-160	160	190		190 g		
—	DSI-110-192	192	222		230 g	10 pcs	100 pcs
—	DSI-110-320	320	350		380 g		
—	DSI-110-512	512	542		610 g		

Material	Finish
304 Stainless Steel	Satin

STAINLESS STEEL HANDLE

DSI-120





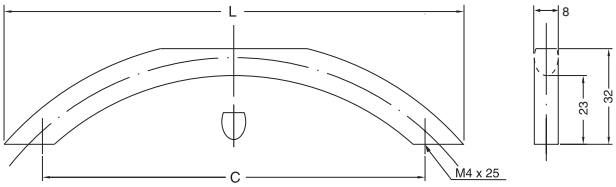
Item Code	Item Name	L	C	Weight	Box	Carton
–	DSI-120- 96	102	96	186 g	25 pcs	250 pcs
–	DSI-120-128	134	128	248 g		
–	DSI-120-160	166	160	275 g	10 pcs	100 pcs
–	DSI-120-192	196	192	375 g		
–	DSI-120-320	326	320	620 g		
–	DSI-120-512	518	512	992 g		

Material	Finish
304 Stainless Steel	Satin

STAINLESS STEEL HANDLE

50 SERIES





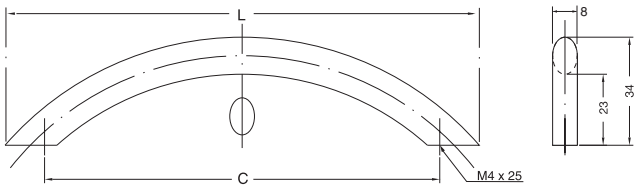
Item Code	Item Name	L	C	Weight	Box	Carton
–	5010	118	96	69 g	25 pcs	250 pcs
–	5011	151	128	86 g		
–	5012	189	160	103 g		
–	5013	224	192	122 g		

Material	Finish
304 Stainless Steel	Satin

STAINLESS STEEL HANDLE

30 SERIES





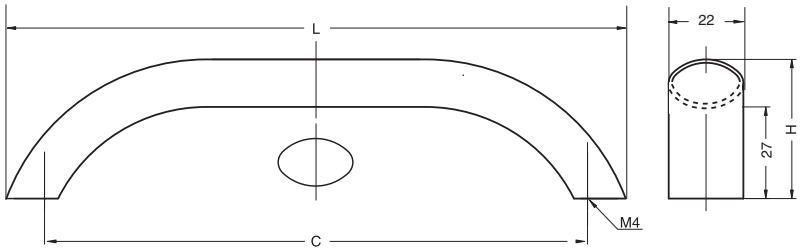
Item Code	Item Name	L	C	Weight	Box	Carton
–	3096	118	96	72 g	25 pcs	250 pcs
–	3097	151	128	90 g		
–	3098	189	160	108 g		
–	3099	224	192	128 g		

Material	Finish
304 Stainless Steel	Satin

STAINLESS STEEL HANDLE

82 SERIES





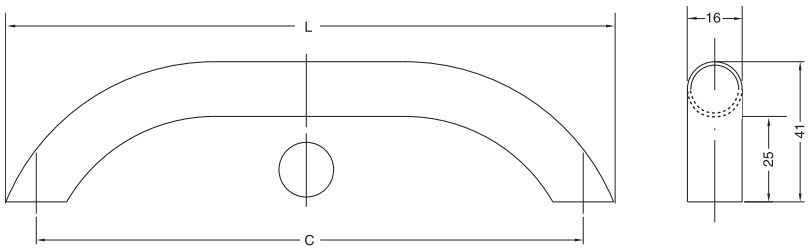
Item Code	Item Name	L	C	H	Weight	Box	Carton
—	8261	182	160	41	166 g	25 pcs	250 pcs
—	8262	214	192		179 g		
—	8263	246	224		192 g		
—	8264	342	320		231 g		

Material	Finish
304 Stainless Steel	Satin

STAINLESS STEEL HANDLE

90 SERIES





Item Code	Item Name	L	C	Weight	Box	Carton
—	9020	178	160	136 g	25 pcs	250 pcs
—	9021	210	192	144 g		

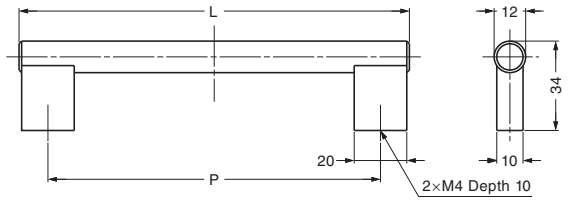
Material	Finish
304 Stainless Steel	Satin

STAINLESS STEEL HANDLE

STAINLESS 304 STEEL

I1020



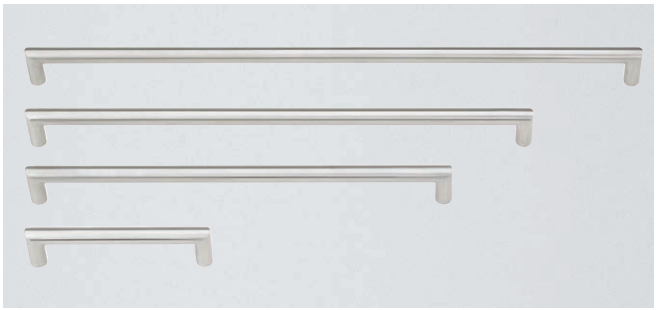


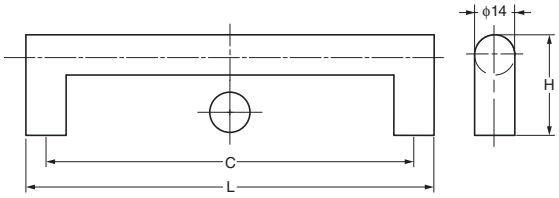
Item Code	Item Name	Material	Finish	L	P	Weight	Box
100-012-961	I1020128	Stainless Steel (SUS304)	Satin	150	128	159 g	25 pcs
100-012-962	I1020160	Stainless Steel (SUS304)	Satin	182	160	85 g	25 pcs
100-012-963	I1020192	Stainless Steel (SUS304)	Satin	214	192	93 g	25 pcs
100-012-964	I1020320	Stainless Steel (SUS304)	Satin	342	320	128 g	25 pcs
100-012-965	I1020492	Stainless Steel (SUS304)	Satin	514	492	175 g	25 pcs

STAINLESS STEEL HANDLE

STAINLESS 304 STEEL STAINLESS

DIH





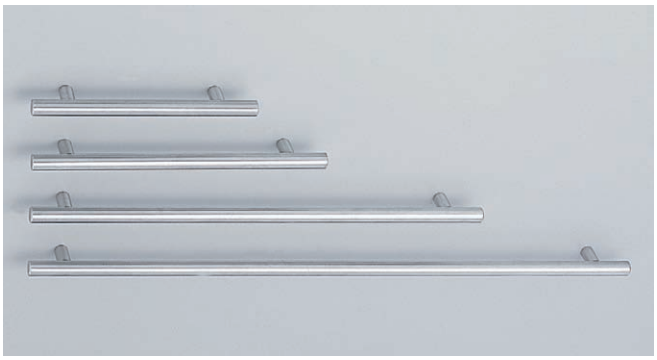
Item Code	Item Name	L	C	H	Weight	Box	Carton
—	DIH-096	110	96	35	57 g	25 pcs	250 pcs
100-023-511	DIH-128	142	128		66 g		
—	DIH-192	206	192		83 g		
—	DIH-342	356	342		123 g		
—	DIH-492	506	492		163 g		
—	DIH-592	606	592		189 g		

Material	Finish
304 Stainless Steel	Satin

STAINLESS STEEL HANDLE

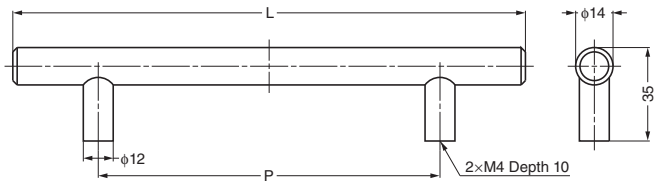
STAINLESS 304 STEEL

I1014



■Recommended Screw

Truss head screw M4×(Door thickness+5～10)



Item Code	Item Name	Material	Finish	L	P	Weight	Box
100-012-629	I1014128	Stainless Steel (SUS304)	Satin	192	128	113 g	25 pcs
100-012-628	I1014192	Stainless Steel (SUS304)	Satin	256	192	136 g	25 pcs
100-012-627	I1014342	Stainless Steel (SUS304)	Satin	406	342	187 g	25 pcs
100-012-626	I1014492	Stainless Steel (SUS304)	Satin	556	492	216 g	25 pcs

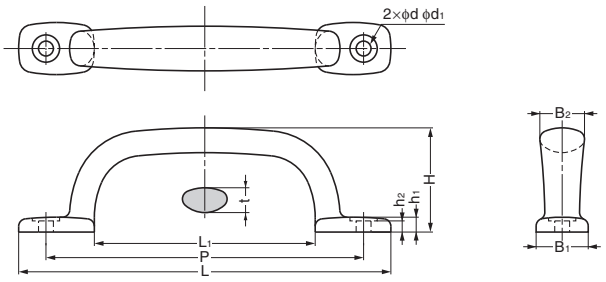
HANDLE (STAINLESS, TITANIUM)

2LC



■**Features**
- Easy to grab.
- High corrosion resistance (Titanium handle)

■**Parts Included** (For only stainless handle)
Pan head tapping screw (SUS)



Item Code	Item Name	Material	Finish	L	L_1	P	B_1	B_2	H	h_1	h_2	t	d	d_1	Screw	Weight	Box
100-010-355	2LC- 80TI	Titanium	Shot Blast	80	32	64	16	14	35	5.5	4	8	5	9.5	—	37 g	20 pcs
100-010-354	2LC-120TI	Titanium	Shot Blast	120	64	96	18	16	36	5.5	4.5	9	5	9.5	—	62 g	15 pcs
100-010-353	2LC-150TI	Titanium	Shot Blast	150	89	128	21	18	42	6	4.5	10	6	11	—	96 g	10 pcs
100-010-131	2LC- 80	Stainless Steel (SCS14)	Mirror	80	32	64	16	14	35	5.5	4	8	5	9.5	4×20	70 g	12 pcs
100-010-132	2LC-120	Stainless Steel (SCS14)	Mirror	120	64	96	18	16	36	5.5	4.5	9	5	9.5	4×20	106 g	8 pcs
100-010-133	2LC-150	Stainless Steel (SCS14)	Mirror	150	89	128	21	18	42	6	4.5	10	6	11	5×32	172 g	6 pcs
100-010-134	2LC-180	Stainless Steel (SCS14)	Mirror	180	118	160	23	20	45	6.5	5	10	6	11	5×32	225 g	3 pcs

※SCS14 is equivalent of SUS316.

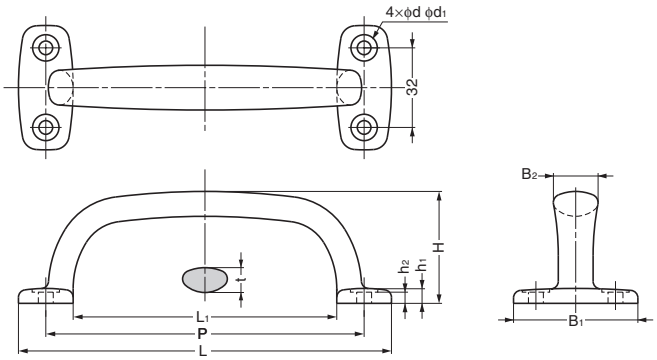
STAINLESS STEEL HANDLE

4LC



■**Features**
Titanium handle is available as a special order.

■**Parts Included**
Pan head tapping screw (SUS)



Item Code	Item Name	Material	Finish	L	L_1	P	B_1	B_2	H	h_1	h_2	t	d	d_1	Screw	Weight	Box
100-010-135	4LC- 82	Stainless Steel (SCS14)	Mirror	82	46	64	48	16	36.5	5.5	4	8	5	9.5	4×20	110 g	8 pcs
100-010-136	4LC-114	Stainless Steel (SCS14)	Mirror	114	78	96	48	16	40	6	4.5	9	5	9.5	4×20	148 g	6 pcs
100-010-137	4LC-150	Stainless Steel (SCS14)	Mirror	150	106	128	50	18	45	6	4.5	10	6	11	5×32	235 g	3 pcs
100-010-138	4LC-180	Stainless Steel (SCS14)	Mirror	180	140	160	50	20	48	6.5	5	10	6	11	5×32	286 g	2 pcs

※SCS14 is equivalent of SUS316.

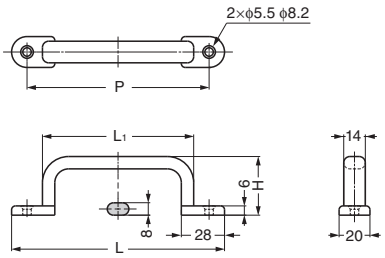
STAINLESS STEEL HANDLE

EC-Y



■Parts Included

Raised countersunk head tapping screw 4×20 (SUS)



Item Code	Item Name	Material	Finish	L	L1	H	P	Weight	Box
100-012-831	EC-Y-140	Stainless Steel (SUS303)	Mirror	140	100	38	120	148 g	5 pcs
100-012-832	EC-Y-160	Stainless Steel (SUS303)	Mirror	160	120	40	140	168 g	3 pcs
100-012-833	EC-Y-190	Stainless Steel (SUS303)	Mirror	190	150	42	170	216 g	2 pcs

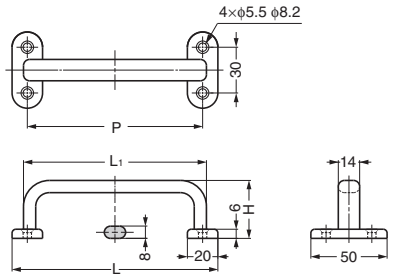
STAINLESS STEEL HANDLE

EC-H



■Parts Included

Raised countersunk head tapping screw 4×20 (SUS)



Item Code	Item Name	Material	Finish	L	L1	H	P	Weight	Box
100-010-056	EC-H-135	Stainless Steel (SUS303)	Mirror	135	120	40	115	220 g	5 pcs
100-010-057	EC-H-165	Stainless Steel (SUS303)	Mirror	165	150	42	145	260 g	3 pcs

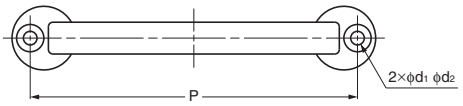
STAINLESS STEEL HANDLE

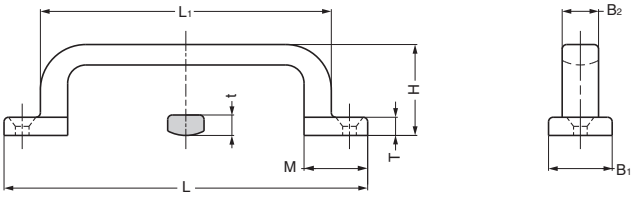
FT-65, FT-80, FT-100



■Parts Included

Raised countersunk head wood screw (SUS)





Item Code	Item Name	Material	Finish	L	L_1	B_1	B_2	H	T	t	M	P	d_1	d_2	Screw	Weight	Box	Carton
100-012-847	FT- 65	Stainless Steel (SCS13)	Mirror	65	47	13	7	16	3.5	4	13	57	3.3	6.4	3.1×16	19 g	40 pcs	480 pcs
100-012-848	FT- 80	Stainless Steel (SCS13)	Mirror	80	61	14	8	20	4	4.5	14	72	3.3	6.4	3.1×16	32 g	30 pcs	360 pcs
100-012-849	FT-100	Stainless Steel (SCS13)	Mirror	100	75	18	10	25	5	5.5	18	88	4.1	8	3.8×20	58 g	20 pcs	240 pcs

※SCS13 is equivalent of SUS304.

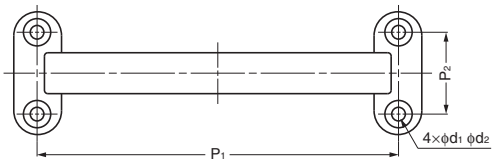
STAINLESS STEEL HANDLE

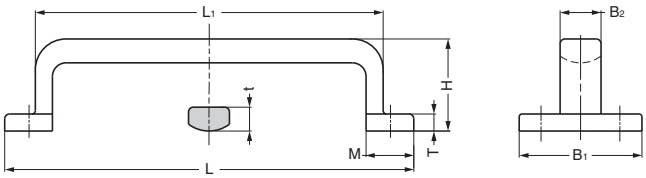
FT-120, FT-150



■Parts Included

Raised countersunk head wood screw (SUS)





Item Code	Item Name	Material	Finish	L	L_1	B_1	B_2	H	T	t	M	P_1	P_2	d_1	d_2	Screw	Weight	Box	Carton
100-010-067	FT-120	Stainless Steel (SCS13)	Mirror	120	102	36	12	27	5	7	14	106	24	4.1	8	3.8×20	117 g	10 pcs	120 pcs
100-010-068	FT-150	Stainless Steel (SCS13)	Mirror	150	129	45	15	33	6	8	18	132	30	5.3	10.4	5.1×25	217 g	5 pcs	40 pcs

※SCS13 is equivalent of SUS304.

STAINLESS STEEL HANDLE

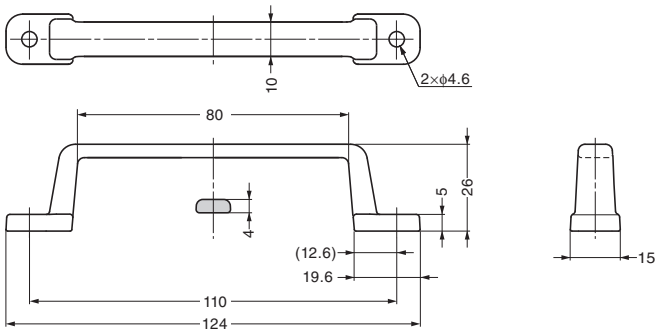
STAINLESS 304 STEEL

FT-110S



■**Recommended Screw**

M4 Screw



Item Code	Item Name	Material	Finish	Weight	Box	Carton
100-019-029	FT-110S	Stainless Steel (SCS13)	Satin	63 g	50 pcs	200 pcs

※SCS13 is equivalent of SUS304.

STAINLESS STEEL HANDLE

STAINLESS 303 STEEL

STAINLESS

XL-CUY

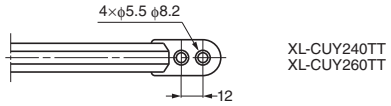


■**Features**

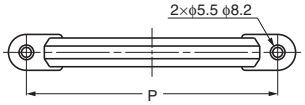
Finish: Combination mirror and satin.

■**Parts Included**

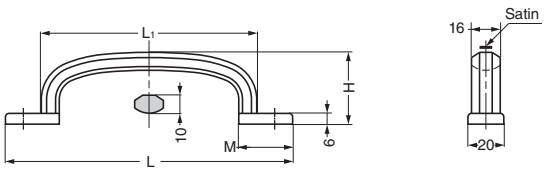
Raised countersunk head tapping screw 4×20 (SUS)



XL-CUY240TT
XL-CUY260TT



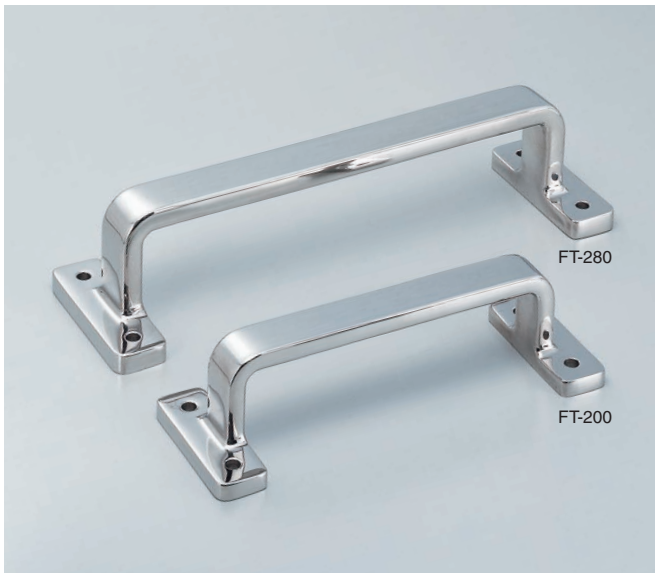
XL-CUY120TT
XL-CUY140TT
XL-CUY160TT
XL-CUY190TT



Item Code	Item Name	Material	Finish	L	L_1	H	M	P	Weight	Box
100-012-834	XL-CUY120TT	Stainless Steel (SUS303)	Mirror and Satin Combination	118	80	36	30	100	153 g	5 pcs
100-012-835	XL-CUY140TT	Stainless Steel (SUS303)	Mirror and Satin Combination	138	100	38	30	120	188 g	5 pcs
100-012-836	XL-CUY160TT	Stainless Steel (SUS303)	Mirror and Satin Combination	158	120	40	30	140	199 g	3 pcs
100-012-837	XL-CUY190TT	Stainless Steel (SUS303)	Mirror and Satin Combination	188	150	42	30	170	235 g	2 pcs
100-012-838	XL-CUY240TT	Stainless Steel (SUS303)	Mirror and Satin Combination	238	180	44	40	196	290 g	2 pcs
100-012-839	XL-CUY260TT	Stainless Steel (SUS303)	Mirror and Satin Combination	258	200	46	40	216	311 g	2 pcs

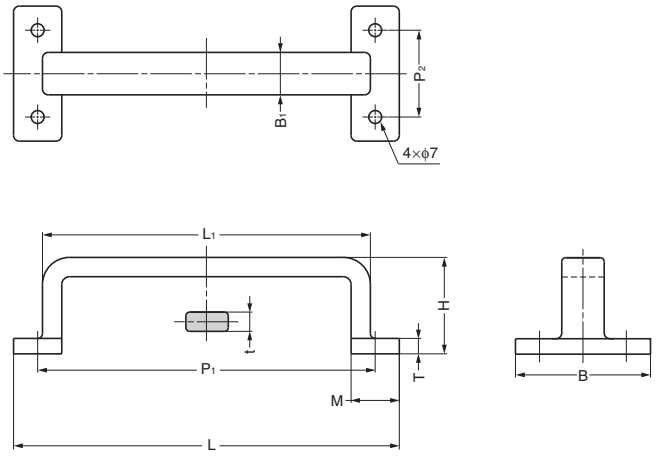
STAINLESS STEEL HANDLE

FT-200, FT-280



■Parts Included

Binding head tapping screw 6×35 (SUS)



Item Code	Item Name	Material	Finish	L	L_1	B	B_1	H	T	t	M	P_1	P_2	Weight	Box	Carton
100-010-069	FT-200	Stainless Steel (SCS14)	Mirror	200	170	70	22	50	8	10	25	175	45	697 g	1 pc	20 pcs
100-010-070	FT-280	Stainless Steel (SCS14)	Mirror	280	250	80	26	62	10	12	27	253	55	1250 g	1 pc	10 pcs

※SCS14 is equivalent of SUS316.

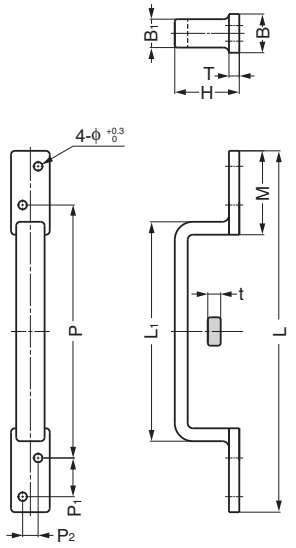
STAINLESS STEEL HANDLE

FT-S280



■Features

- Ideal for harsh and high corrosion environments.
- Higher profile allows for easy gripping with gloved hand.



Item Code	Item Name	Material	Finish	L	L_1	B	B_1	H	T	t	M	P	P_1	P_2	Weight	Box	Carton
100-010-071	FT-S280	Stainless Steel (SCS14)	Mirror	280	170	30	22	50	8	10	65	196	30	12	700 g	1 pc	20 pcs

※SCS14 is equivalent of SUS316.

STAINLESS STEEL HANDLE

STAINLESS 316 STEEL

MG

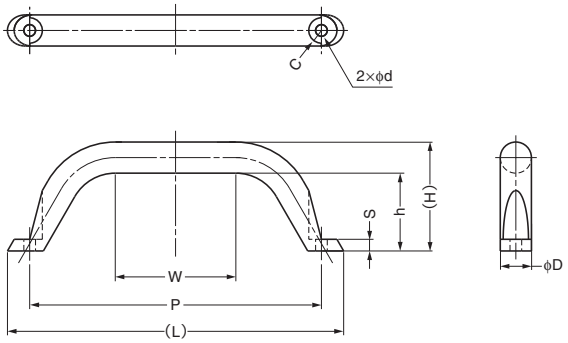


■Features

- Compliant with SEMI S8-0701 guideline.
- Higher profile allows for easy gripping with gloved hand.

■Recommended Screw

Truss head screw

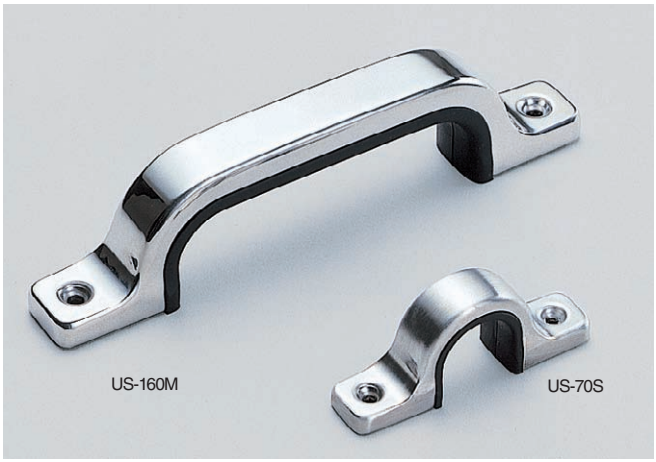


Item Code	Item Name	Material	Finish	L	H	P	D	W	h	S	C	d	Recommended Screw	Weight	Box	Carton
100-010-483	MG-150	Stainless Steel (SUS316)	Mirror	172.8	56	150	16	62	40	6	R6.5	6	M5	314 g	10 pcs	40 pcs
100-010-484	MG-190	Stainless Steel (SUS316)	Mirror	216.7	63	190	18	92	45	8	R7.5	7	M6	470 g	5 pcs	20 pcs
100-010-485	MG-250	Stainless Steel (SUS316)	Mirror	275.5	68	250	18	145	50	8	R7.5	7	M6	607 g	5 pcs	20 pcs
100-021-952	MG-230T	Stainless Steel (SUS316)	Mirror	260	70	230	20	129	50	10	R9	9	M8	678 g	5 pcs	20 pcs
100-021-953	MG-300T	Stainless Steel (SUS316)	Mirror	330	70	300	20	199	50	10	R9	9	M8	859 g	5 pcs	20 pcs

STAINLESS STEEL HANDLE

STAINLESS 304 STEEL

US

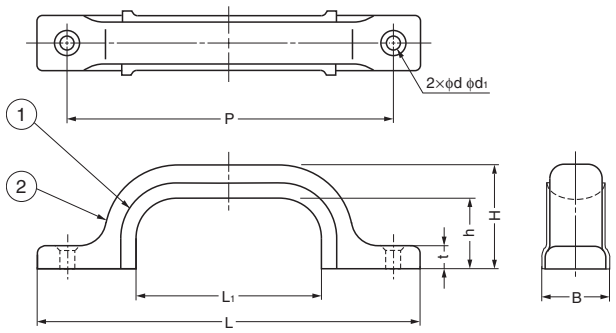


■Features

- Rubber grip allows for an easy and comfortable grip.
- Light weight design.

■Parts Included

Raised countersunk head wood screw (SUS)



No.	Material	Finish/Colour
①	Elastomer (TPE)	Black
②	Stainless Steel (SUS304)	Mirror and Satin Combination

Item Code	Item Name	Finish	L	L_1	P	B	H	h	t	d	d_1	Screw	Weight	Box	Carton
100-012-243	US- 70S	Satin	70	20	54	17	28	21	5.5	3.3	6.6	3.1×16	20 g	20 pcs	200 pcs
100-012-240	US- 70M	Mirror	70	20	54	17	28	21	5.5	3.3	6.6	3.1×16	20 g	20 pcs	200 pcs
100-012-244	US-120S	Satin	120	57	102	19	32	21	6.5	3.8	7.6	3.5×20	45 g	20 pcs	200 pcs
100-012-241	US-120M	Mirror	120	57	102	19	32	21	6.5	3.8	7.6	3.5×20	45 g	20 pcs	200 pcs
100-012-245	US-160S	Satin	160	88	140	22	37.5	23	7.5	4.1	8.1	4.1×25	70 g	10 pcs	100 pcs
100-012-242	US-160M	Mirror	160	88	140	22	37.5	23	7.5	4.1	8.1	4.1×25	70 g	10 pcs	100 pcs

HANDLE

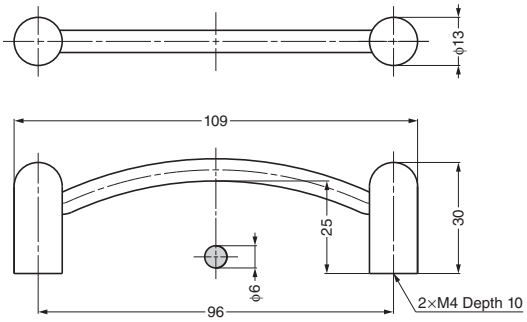
STEEL

LX-110



■Parts Included

Truss head screw M4×25



Item Code	Item Name	Material	Finish	Weight	Box	Carton
100-013-231	LX-110PB	Brass	Polished	85 g	10 pcs	160 pcs
100-013-232	LX-110WB	Brass	Satin Nickel	85 g	10 pcs	160 pcs

HANDLE (GOLD PLATED)

STAINLESS

TMH



■Parts Included

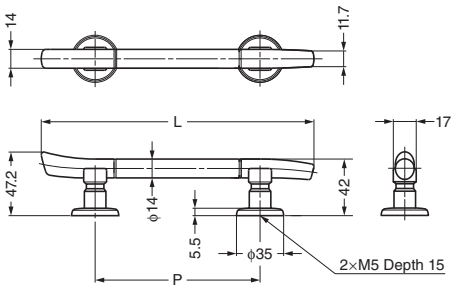
Truss head screw M5×30 (SUS)

■Option

Base plate TMH-M35



Without base plate



■Base Plate (Sold Separately)

Item Code	Item Name	Material	Finish	Weight
100-010-736	TMH-M35	Brass	24K Gold Plating	28 g

■Body

Item Code	Item Name	Material	Finish	L	P	Weight
100-010-732	TMH- 96	Brass	24K Gold Plating, Black Nickel (Ring)	176	96	300 g
100-010-733	TMH-128	Brass	24K Gold Plating, Black Nickel (Ring)	208	128	338 g
100-010-734	TMH-160	Brass	24K Gold Plating, Black Nickel (Ring)	240	160	349 g
100-010-735	TMH-192	Brass	24K Gold Plating, Black Nickel (Ring)	272	192	383 g

HANDLE

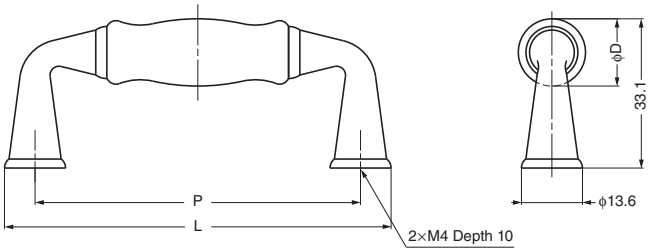
STEEL

K255



■Parts Included

Truss head screw M4×28

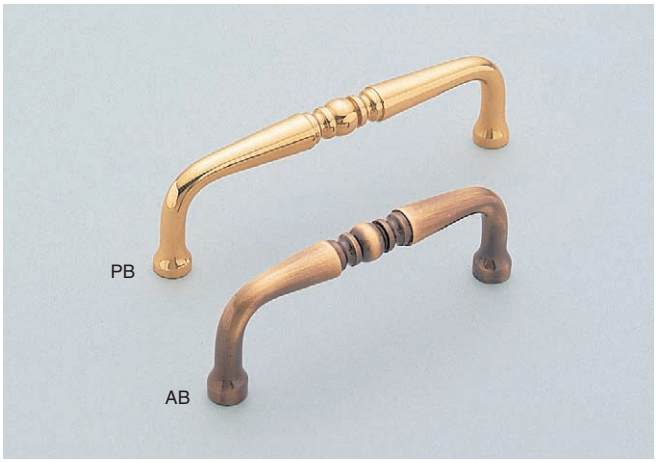


Item Code	Item Name	Material	Finish	L	P	D	Weight	Box	Carton
100-012-773	K255-76	Brass/Ceramic	Brass, Clear	89.8	76.2	15.1	58 g	30 pcs	300 pcs
100-012-774	K255-96	Brass/Ceramic	Brass, Clear	109.6	96	17	73 g	20 pcs	200 pcs

HANDLE

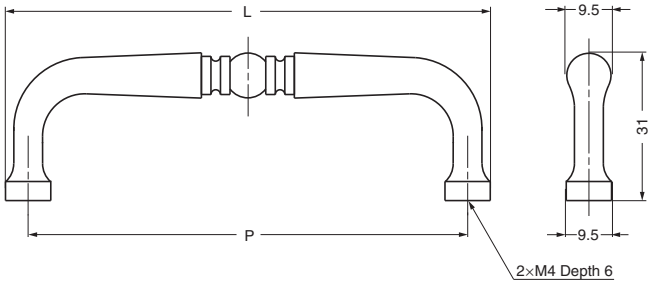
STEEL

K259



■Parts Included

Truss head screw M4×28

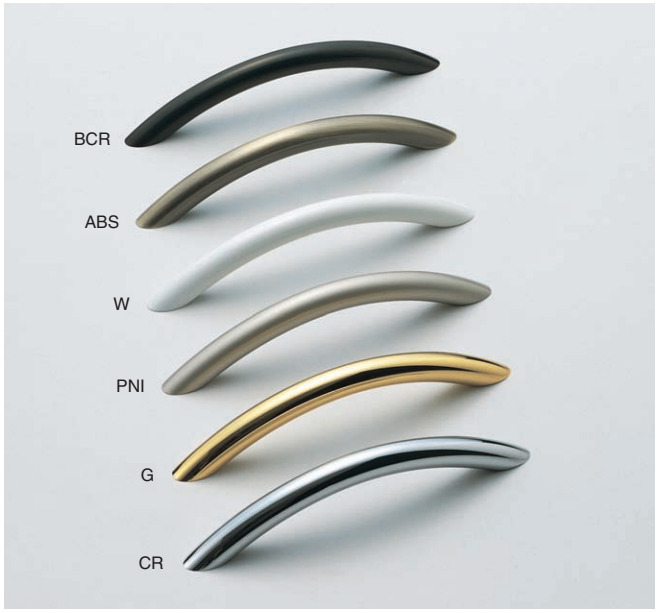


Item Code	Item Name	Material	Finish	L	P	Weight	Box	Carton
100-012-775	K259-76PB	Brass	Brass, Clear	85.7	76.2	45 g	30 pcs	300 pcs
100-012-776	K259-76AB	Brass	Brass Antique	85.7	76.2	45 g	30 pcs	300 pcs
100-012-777	K259-96PB	Brass	Brass, Clear	105.5	96	50 g	30 pcs	300 pcs
100-012-778	K259-96AB	Brass	Brass Antique	105.5	96	50 g	30 pcs	300 pcs

HANDLE

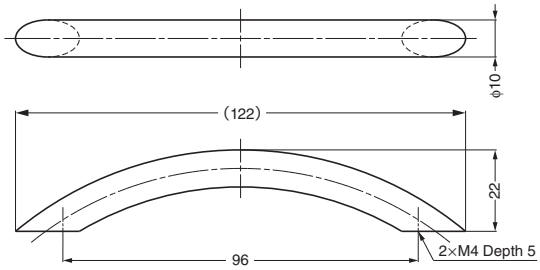
STEEL

122HD



■Parts Included

Truss head screw M4×30



Item Code	Item Name	Material	Finish	Weight	Box	Carton
100-014-200	122HD-BCR	Brass	Black Chrome	82 g	20 pcs	200 pcs
100-014-202	122HD-ABS	Brass	Brass Antique	82 g	20 pcs	200 pcs
100-014-203	122HD-W	Brass	White Lacquer	82 g	20 pcs	200 pcs
100-014-207	122HD-PNI	Brass	Parl Nickel	82 g	20 pcs	200 pcs
100-014-205	122HD-G	Brass	Gold	82 g	20 pcs	200 pcs
100-014-206	122HD-CR	Brass	Chrome	82 g	20 pcs	200 pcs

HANDLE

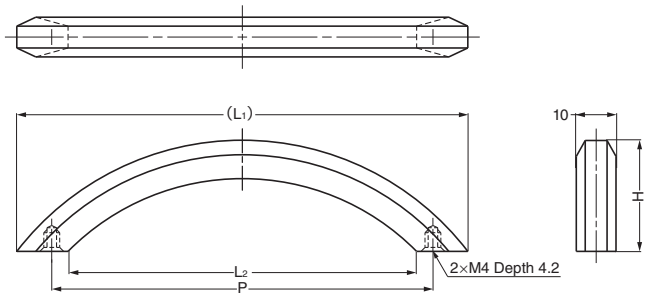
STEEL

K281



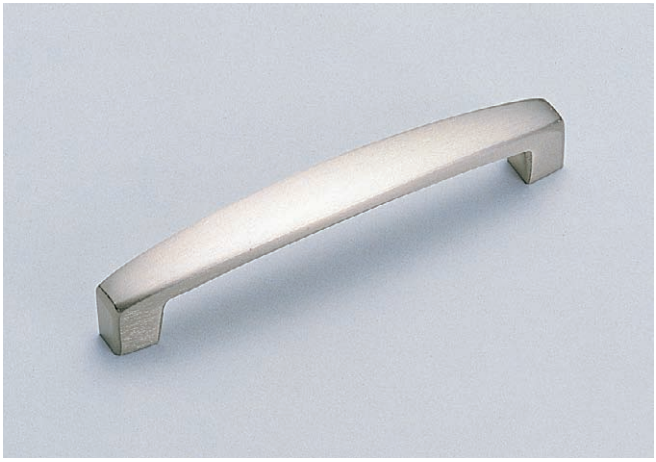
■Parts Included

Truss head screw M4×25



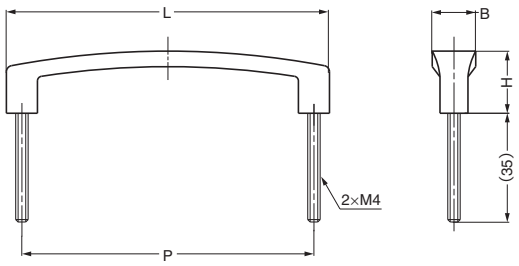
Item Code	Item Name	Material	Finish	L1	L2	H	P	Weight	Box	Carton
100-012-779	K281- 96PB	Brass	Clear	113.5	88.5	28	96	80 g	20 pcs	200 pcs
100-012-780	K281- 96CR	Brass	Chrome	113.5	88.5	28	96	80 g	20 pcs	200 pcs
100-012-781	K281- 96BN	Brass	Black Nickel	113.5	88.5	28	96	80 g	20 pcs	200 pcs
100-012-782	K281- 96SN	Brass	Soft Nickel	113.5	88.5	28	96	80 g	20 pcs	200 pcs
100-012-783	K281-128PB	Brass	Clear	146	120	30	128	111 g	20 pcs	200 pcs
100-012-784	K281-128CR	Brass	Chrome	146	120	30	128	111 g	20 pcs	200 pcs
100-012-785	K281-128BN	Brass	Black Nickel	146	120	30	128	111 g	20 pcs	200 pcs
100-012-786	K281-128SN	Brass	Soft Nickel	146	120	30	128	111 g	20 pcs	200 pcs

HANDLE ATO



■Parts Included

Nut



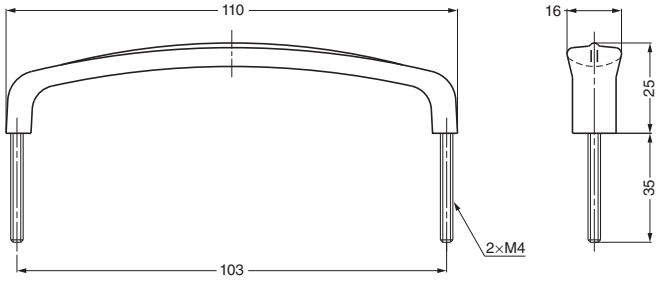
Item Code	Item Name	Material	Finish	L	H	B	P	Weight	Box	Carton
100-010-927	ATO-A209	Brass	Satin Nickel	90	18	13	80	65 g	30 pcs	300 pcs
100-010-928	ATO-A208	Brass	Satin Nickel	104	20	14	94	80 g	25 pcs	250 pcs
100-010-929	ATO-A207	Brass	Satin Nickel	121	21	15	112	110 g	15 pcs	150 pcs

HANDLE OPE-110



■Parts Included

Nut



Item Code	Item Name	Material	Finish	Weight	Box	Carton
100-010-932	OPE-110	Brass	Satin Nickel	83 g	20 pcs	200 pcs

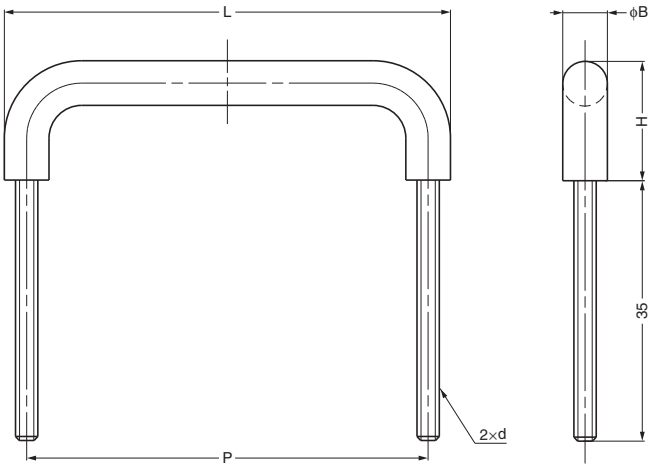
HANDLE

MRB



■Parts Included

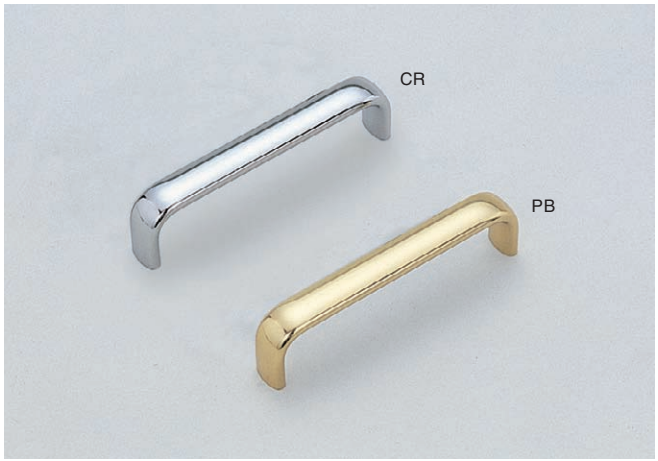
Nut



Item Code	Item Name	Material	Finish	L	H	B	P	d	Weight	Box	Carton
100-010-280	MRB-A283	Brass	Satin Nickel	60	18	6	54	M3	21 g	70 pcs	700 pcs
100-010-281	MRB-A282	Brass	Satin Nickel	76	23	7	69	M4	39 g	50 pcs	500 pcs
100-010-282	MRB-A281	Brass	Satin Nickel	94	25	8	86	M4	56 g	35 pcs	350 pcs
100-010-283	MRB-A280	Brass	Satin Nickel	105	27	8	97	M4	62 g	30 pcs	300 pcs
100-010-284	MRB-A279	Brass	Satin Nickel	122	27	8	114	M4	70 g	20 pcs	200 pcs

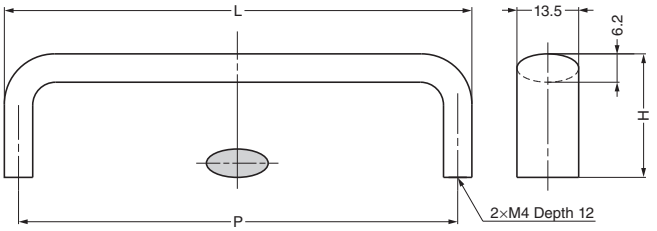
HANDLE

DLB



■Parts Included

Truss head screw M4×28

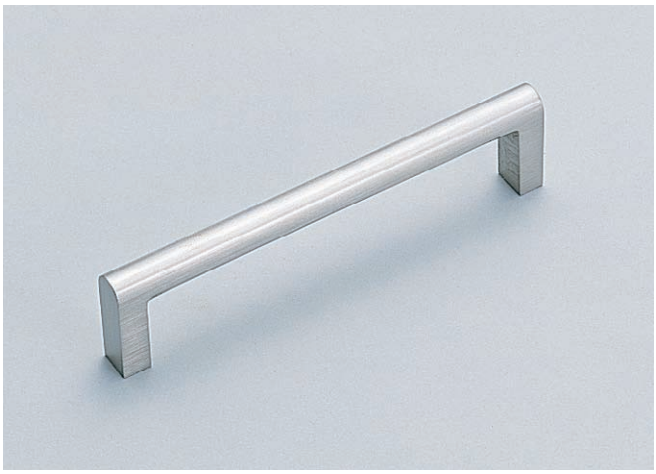


Item Code	Item Name	Material	Finish	L	H	P	Weight	Box	Carton
100-907-405	DLB- 96PB	Brass	Mirror	102.2	27	96	79 g	20 pcs	200 pcs
100-012-500	DLB- 96CR	Brass	Chrome	102.2	27	96	79 g	20 pcs	200 pcs
100-907-408	DLB-128PB	Brass	Mirror	134.2	28	128	96 g	15 pcs	150 pcs
100-012-502	DLB-128CR	Brass	Chrome	134.2	28	128	96 g	15 pcs	150 pcs

HANDLE

STEEL

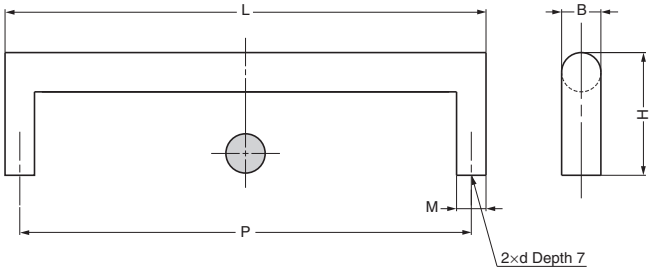
KAKU



■Parts Included

●KAKU-A161：Truss head screw M3×28

●KAKU-A160, KAKU-A159：Truss head screw M4×28

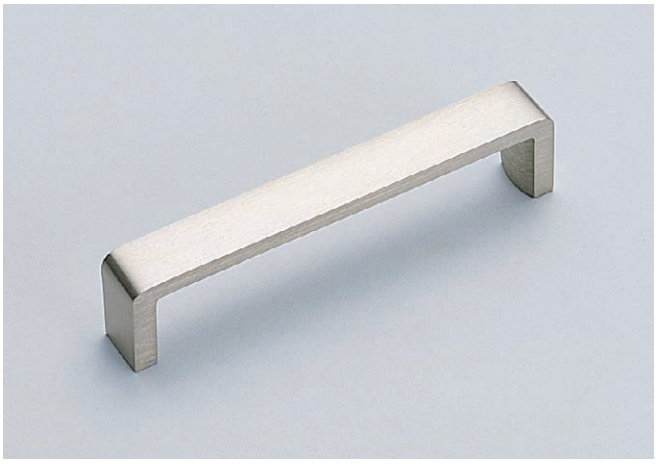


Item Code	Item Name	Material	Finish	L	H	B	P	M	d	Weight	Box	Carton
100-010-921	KAKU-A161	Brass	Satin Nickel	84	24	7	78	7	M3	50 g	35 pcs	420 pcs
100-010-922	KAKU-A160	Brass	Satin Nickel	99	25	8	92	8	M4	65 g	30 pcs	360 pcs
100-010-923	KAKU-A159	Brass	Satin Nickel	124	29	9	113	11	M4	103 g	20 pcs	240 pcs

HANDLE

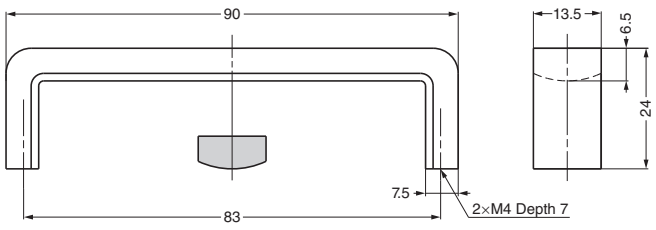
STEEL

HIRA



■Parts Included

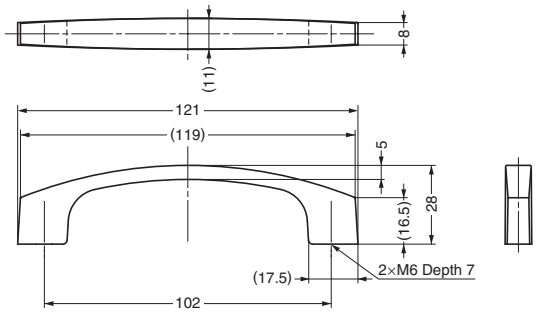
Truss head screw M4×28



Item Code	Item Name	Material	Finish	Weight	Box	Carton
100-010-924	HIRA-A012	Brass	Satin Nickel	98 g	20 pcs	240 pcs

HANDLE SAZ-121

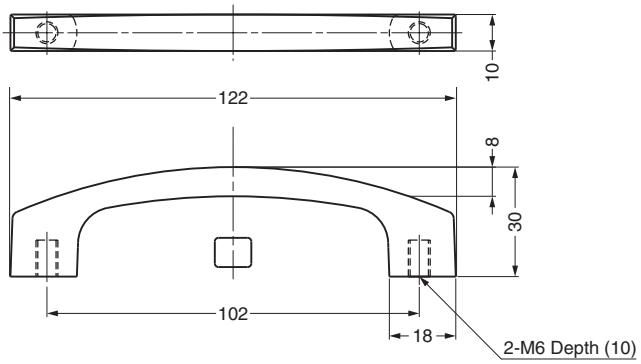




Item Code	Item Name	Material	Finish	Weight	Box	Carton
100-010-105	SAZ-121CR	Zinc Alloy (ZDC)	Chrome	67 g	50 pcs	200 pcs

HANDLE SAZ-122



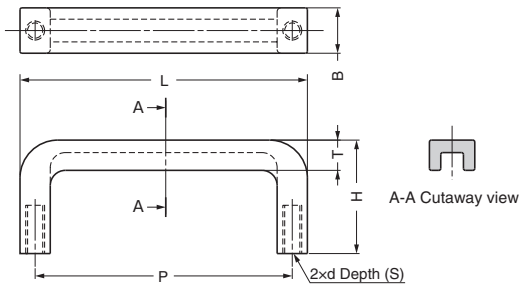


Item Code	Item Name	Material	Finish	Weight	Box	Carton
100-019-790	SAZ-122	Zinc Alloy (ZDC)	Chrome	85 g	40 pcs	400 pcs

HANDLE

AKH

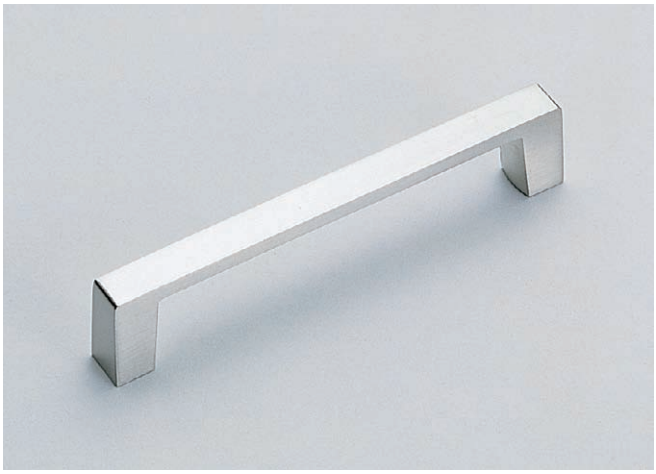




Item Code	Item Name	Material	Finish	L	H	B	T	P	d	S	Weight	Box
100-019-803	AKH- 76	Zinc Alloy (ZDC)	Chrome	76	30	12	8	68	M5	8	55 g	50 pcs
100-019-799	AKH-108	Zinc Alloy (ZDC)	Chrome	108	30	14	8	100	M5	8	90 g	30 pcs
100-019-802	AKH-120	Zinc Alloy (ZDC)	Chrome	120	40	16	10	110	M6	8	145 g	20 pcs
100-019-801	AKH-130	Zinc Alloy (ZDC)	Chrome	130	40	16	10	120	M6	8	157 g	20 pcs
100-010-575	AKH-200	Zinc Alloy (ZDC)	Chrome	200	50	18	12	188	M8	10	276 g	30 pcs

HANDLE

936

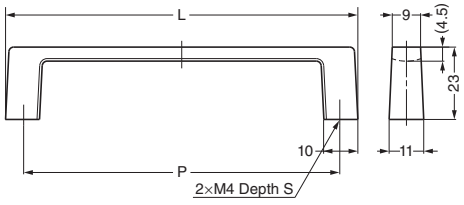


■Remarks

Screws are not included in 936-55-SNI and 936-100-SNI (Soft Nickel finish).

■Parts Included

- 936-55-SCR：Truss head screw M4×25
- 936-100-DC：Truss head screw M4×28



Item Code	Item Name	Material	Finish	L	P	S	Weight	Box	Carton
100-010-101	936-55-SCR	Zinc Alloy (ZDC)	Satin Chrome	66.5	55	8	46 g	50 pcs	200 pcs
100-019-096	936-55-SNI	Zinc Alloy (ZDC)	Soft Nickel	66.5	55	8	46 g	50 pcs	200 pcs
100-010-003	936-100-DC	Zinc Alloy (ZDC)	Dull Chrome/Clear	112	100.5	10	57 g	50 pcs	200 pcs
100-019-127	936-100-SNI	Zinc Alloy (ZDC)	Soft Nickel	112	100.5	10	57 g	50 pcs	200 pcs

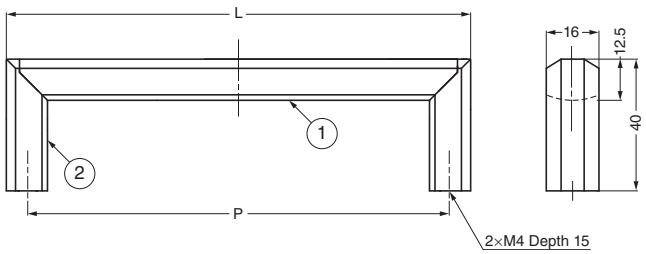
HANDLE

STEEL **XLA-HA**



■Parts Included

Truss head screw M4×25

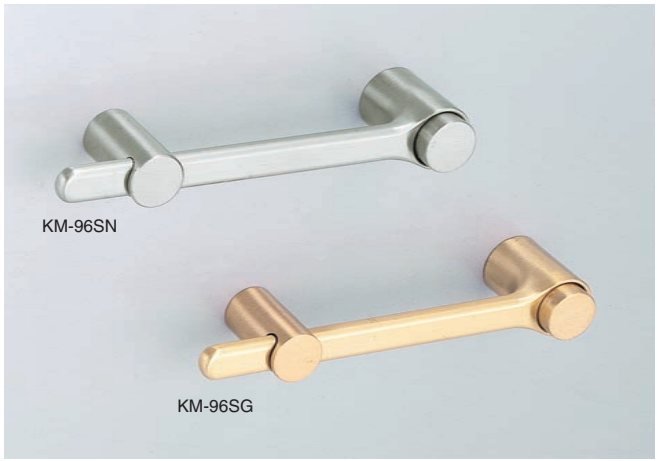


No.	Part Name	Material	Finish
①	Handle	Aluminium Alloy	Anodized Silver
②	Leg	Zinc Alloy (ZDC)	Dull Chrome

Item Code	Item Name	L	P	Weight	Box	Carton
100-010-059	XLA-HA 96	109	96	129 g	20 pcs	80 pcs
100-010-060	XLA-HA128	141	128	144 g	20 pcs	80 pcs
100-010-061	XLA-HA192	205	192	149 g	20 pcs	80 pcs
100-010-062	XLA-HA256	269	256	169 g	10 pcs	60 pcs
100-010-063	XLA-HA320	333	320	189 g	10 pcs	60 pcs

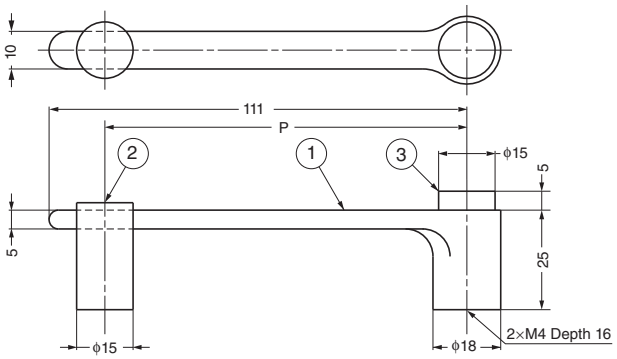
PITCH ADJUSTABLE HANDLE

STEEL **KM-96**



■Parts Included

Truss head screw M4×30



No.	Part Name
①	Handle
②	Bracket
③	Button (Fixed Type)

Item Code	Item Name	Material	Finish	P	Weight	Box	Carton
100-010-618	KM-96SN	Zinc Alloy (ZDC)	Satin Nickel/Clear	26.5～98.5	174 g	30 pcs	60 pcs
100-010-617	KM-96SG	Zinc Alloy (ZDC)	Satin Gold/Clear	26.5～98.5	174 g	30 pcs	60 pcs

HANDLE

KMH



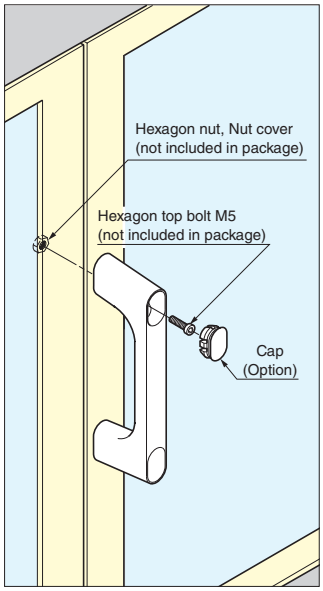
■Features

- Cover hides screw heads for clean appearance (option). 4 colours available.
- Caps are tightly fixed to prevent from falling off.
- Possible to customize cap colour from 10,000 pcs.

■Recommended Screw

Hexagon top bolt or Pan head screw M5, M5

■Installation

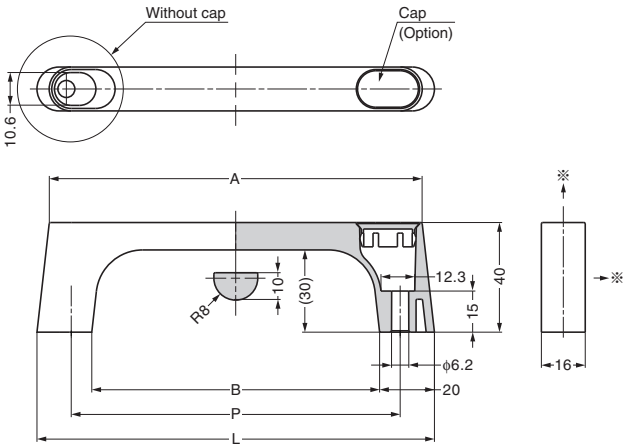


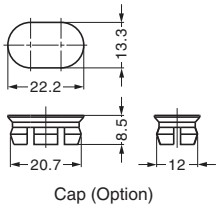
■Caps (Option)



■Without Cap







■Body

Item Code	Item Name	Material	Finish	L	A	B	P	Load Capacity		Weight	Carton
100-024-063	KMH-100	Zinc Alloy (ZDC)	Stain Chrome	125	116	85	100	500 N	51 kgf	162 g	100 pcs
100-024-064	KMH-120	Zinc Alloy (ZDC)	Stain Chrome	145	136	105	120	500 N	51 kgf	180 g	60 pcs
100-024-065	KMH-150	Zinc Alloy (ZDC)	Stain Chrome	175	166	135	150	500 N	51 kgf	206 g	60 pcs

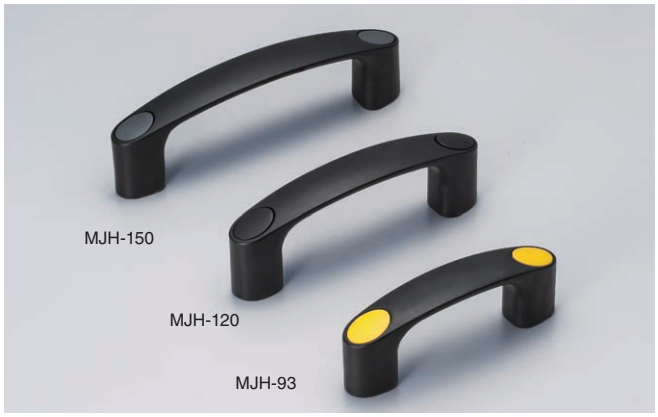
Load capacity for two directions (see ※marks on above figure).

■Caps (Option) (Sold by piece)

Item Code	Item Name	Material	Colour	Weight
100-024-066	KMHC-WT	PBT Plastic	White	1.0 g
100-024-067	KMHC-GR	PBT Plastic	Grey	1.0 g
100-024-068	KMHC-BU	PBT Plastic	Light Blue	1.0 g
100-024-924	KMHC-BL	PBT Plastic	Black	1.0 g

HANDLE

MJH



■Features

- Handle can be installed from both front and back.
- Cover hides screw heads for clean appearance (option). 3 colours available.
- Caps are tightly fixed to prevent from falling off.

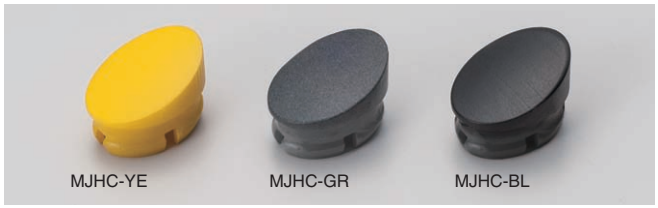
■Remarks

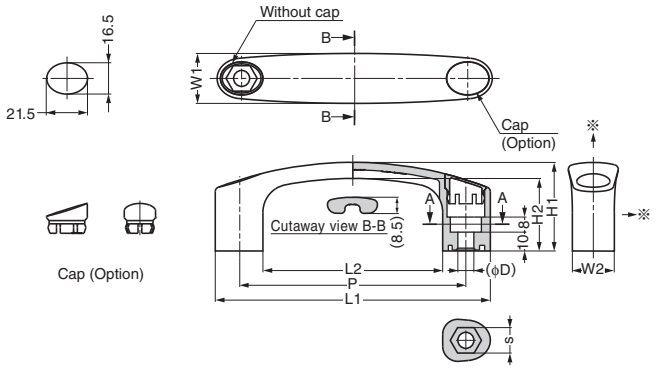
Only hexagon top bolt are applicable.

■Recommended Screw

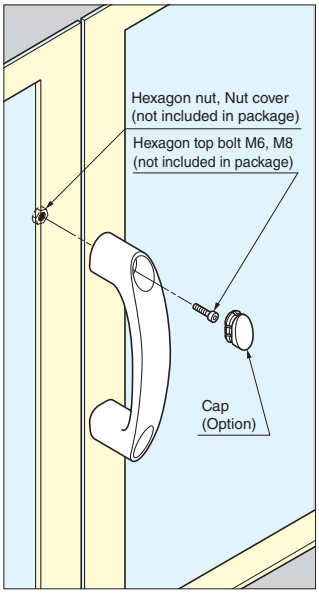
- MJH-93：Hexagon top bolt M6
- MJH-120, MJH-150：Hexagon top bolt M8

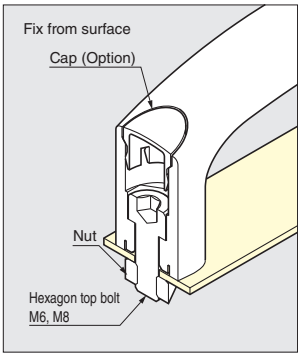
■Caps (Option)

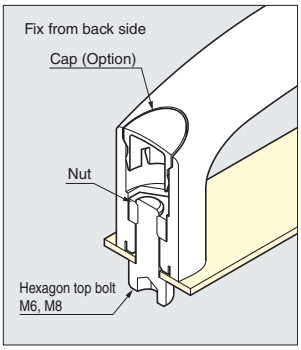




■Installation







※Screws are applicable from both inside and outside.

■Body

Item Code	Item Name	Material	Colour	P	L1	L2	D	s	H1	H2	W1	W2	Load Capacity		Weight	Carton
100-026-534	MJH-93	Reinforced Nylon	Black	93	119	67	6.5	10.2	42	33.5	25	21.3	450 N	46 kgf	35 g	100 pcs
100-026-535	MJH-120	Reinforced Nylon	Black	120	146	94	8.5	13.2	47	38.5	26.5	22.4	450 N	46 kgf	42 g	50 pcs
100-026-536	MJH-150	Reinforced Nylon	Black	150	176	124	8.5	13.2	52	43.5	28	22.5	450 N	46 kgf	52 g	50 pcs

Load capacity for two directions (see ※marks on above figure).

■Caps (Option) (Sold by piece)

Item Code	Item Name	Material	Colour	Weight
100-026-537	MJHC-BL	Reinforced Nylon	Black	1.0 g
100-026-538	MJHC-GR	Reinforced Nylon	Grey	1.0 g
100-026-539	MJHC-YE	Reinforced Nylon	Yellow	1.0 g

HANDLE

STEEL

KK-H

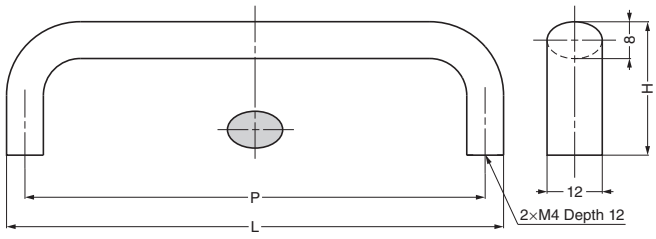


■Features

Antibacterial coating keeps handle clean.

■Parts Included

Truss head screw M4×30



Item Code	Item Name	Material	Finish	L	H	P	Weight	Box	Carton
100-012-887	KK-H 80SNI	Aluminium Alloy	Nickel＋Antibacterial Coating	78	28	70	20 g	25 pcs	200 pcs
100-012-888	KK-H 80SSG	Aluminium Alloy	Satin Gold＋Antibacterial Coating	78	28	70	20 g	25 pcs	200 pcs
100-012-889	KK-H 80SBR	Aluminium Alloy	Brown＋Antibacterial Coating	78	28	70	20 g	25 pcs	200 pcs
100-029-087	※KK-H 80BL	Aluminium Alloy	Paint/Black	78	28	70	20 g	25 pcs	200 pcs
100-012-890	KK-H110SNI	Aluminium Alloy	Nickel＋Antibacterial Coating	108	29	100	28 g	25 pcs	200 pcs
100-012-891	KK-H110SSG	Aluminium Alloy	Satin Gold＋Antibacterial Coating	108	29	100	28 g	25 pcs	200 pcs
100-012-892	KK-H110SBR	Aluminium Alloy	Brown＋Antibacterial Coating	108	29	100	28 g	25 pcs	200 pcs
100-029-088	※KK-H110BL	Aluminium Alloy	Paint/Black	108	29	100	28 g	25 pcs	200 pcs
100-012-893	KK-H130SNI	Aluminium Alloy	Nickel＋Antibacterial Coating	128	30	120	37 g	25 pcs	200 pcs
100-012-894	KK-H130SSG	Aluminium Alloy	Satin Gold＋Antibacterial Coating	128	30	120	37 g	25 pcs	200 pcs
100-012-895	KK-H130SBR	Aluminium Alloy	Brown＋Antibacterial Coating	128	30	120	37 g	25 pcs	200 pcs
100-029-089	※KK-H130BL	Aluminium Alloy	Paint/Black	128	30	120	37 g	25 pcs	200 pcs

※Without antibacterial coating.

HANDLE

STEEL

KK-M

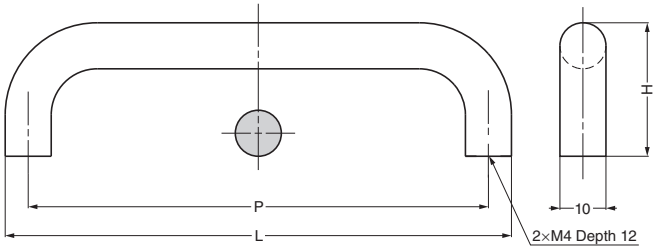


■Features

Antibacterial coating keeps handle clean.

■Parts Included

Truss head screw M4×30



Item Code	Item Name	Material	Finish	L	H	P	Weight	Box	Carton
100-012-896	KK-M 80SNI	Aluminium Alloy	Nickel＋Antibacterial Coating	80	28	70	26 g	25 pcs	200 pcs
100-012-897	KK-M 80SSG	Aluminium Alloy	Satin Gold＋Antibacterial Coating	80	28	70	26 g	25 pcs	200 pcs
100-012-898	KK-M 80SBR	Aluminium Alloy	Brown＋Antibacterial Coating	80	28	70	26 g	25 pcs	200 pcs
100-012-899	KK-M110SNI	Aluminium Alloy	Nickel＋Antibacterial Coating	110	29	100	33 g	25 pcs	200 pcs
100-012-900	KK-M110SSG	Aluminium Alloy	Satin Gold＋Antibacterial Coating	110	29	100	33 g	25 pcs	200 pcs
100-012-901	KK-M110SBR	Aluminium Alloy	Brown＋Antibacterial Coating	110	29	100	33 g	25 pcs	200 pcs
100-012-902	KK-M130SNI	Aluminium Alloy	Nickel＋Antibacterial Coating	130	30	120	38 g	25 pcs	200 pcs
100-012-903	KK-M130SSG	Aluminium Alloy	Satin Gold＋Antibacterial Coating	130	30	120	38 g	25 pcs	200 pcs
100-012-904	KK-M130SBR	Aluminium Alloy	Brown＋Antibacterial Coating	130	30	120	38 g	25 pcs	200 pcs

STAINLESS STEEL PULL

SN

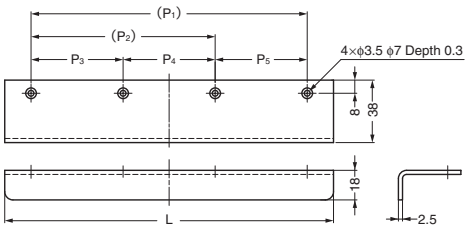


■Features

Black is also available. (For SN-50, SN70 and SN-95)

■Recommended Screw

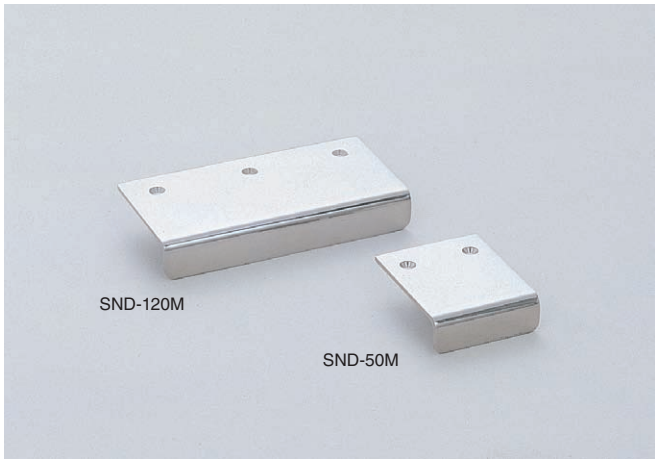
Countersunk head wood screw 3.1×20 (SUS)



Item Code	Item Name	Material	Finish	L	P1	P2	P3	P4	P5	Holes	Weight	Box	Carton
100-010-162	SN-50S	Stainless Steel (SUS304)	Satin	50	—	—	30	—	—	2 pcs	47 g	40 pcs	400 pcs
100-010-155	SN-50M	Stainless Steel (SUS304)	Mirror	50	—	—	30	—	—	2 pcs	47 g	40 pcs	400 pcs
100-010-163	SN-70S	Stainless Steel (SUS304)	Satin	70	—	—	46	—	—	2 pcs	65 g	30 pcs	300 pcs
100-010-156	SN-70M	Stainless Steel (SUS304)	Mirror	70	—	—	46	—	—	2 pcs	65 g	30 pcs	300 pcs
100-010-164	SN-95S	Stainless Steel (SUS304)	Satin	95	—	—	65	—	—	2 pcs	90 g	20 pcs	200 pcs
100-010-157	SN-95M	Stainless Steel (SUS304)	Mirror	95	—	—	65	—	—	2 pcs	90 g	20 pcs	200 pcs
100-010-165	SN-120S	Stainless Steel (SUS304)	Satin	120	—	90	45	45	—	3 pcs	112 g	20 pcs	200 pcs
100-010-158	SN-120M	Stainless Steel (SUS304)	Mirror	120	—	90	45	45	—	3 pcs	112 g	20 pcs	200 pcs
100-010-166	SN-150S	Stainless Steel (SUS304)	Satin	150	—	114	57	57	—	3 pcs	147 g	15 pcs	150 pcs
100-010-159	SN-150M	Stainless Steel (SUS304)	Mirror	150	—	114	57	57	—	3 pcs	147 g	15 pcs	150 pcs
100-021-720	SN-200S	Stainless Steel (SUS304)	Satin	200	168	112	56	56	56	4 pcs	200 g	15 pcs	60 pcs
100-021-721	SN-200M	Stainless Steel (SUS304)	Mirror	200	168	112	56	56	56	4 pcs	200 g	15 pcs	60 pcs
100-021-722	SN-300S	Stainless Steel (SUS304)	Satin	300	270	180	90	90	90	4 pcs	300 g	10 pcs	40 pcs
100-021-723	SN-300M	Stainless Steel (SUS304)	Mirror	300	270	180	90	90	90	4 pcs	300 g	10 pcs	40 pcs

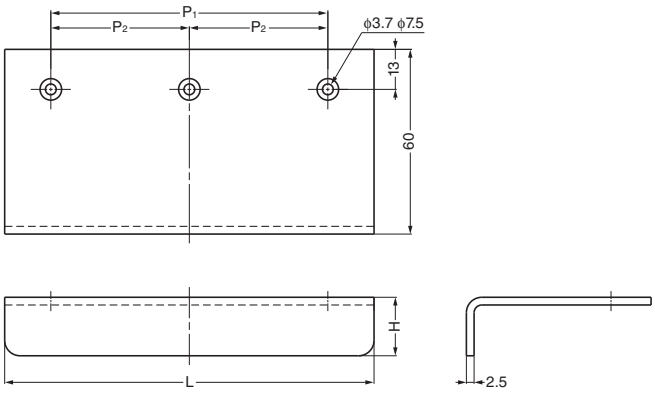
STAINLESS STEEL PULL

SND



■Parts Included

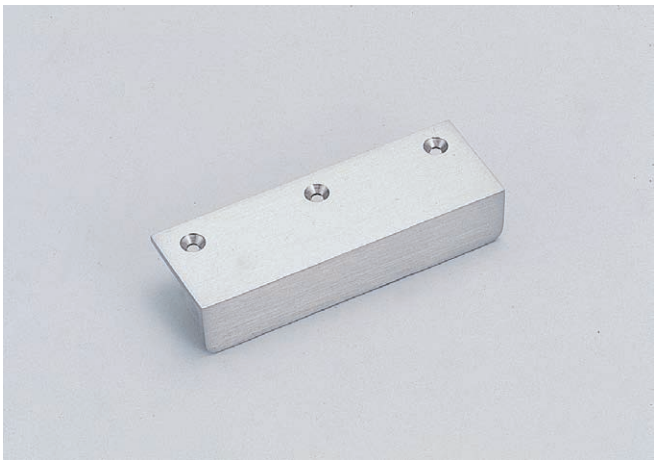
Countersunk head wood screw 3.5×20 (SUS)

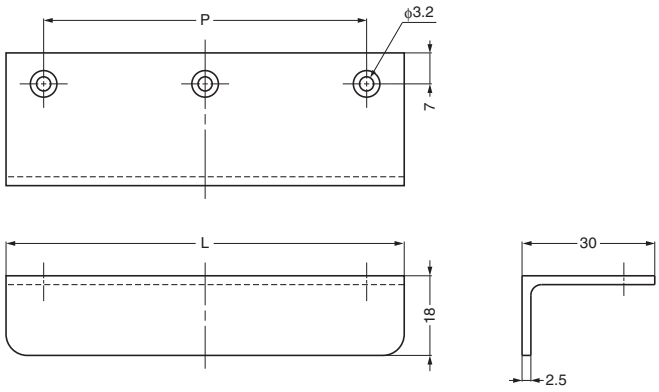


Item Code	Item Name	Material	Finish	L	H	P1	P2	Holes	Weight	Box	Carton
100-010-150	SND- 50M	Stainless Steel (SUS304)	Mirror	50	17	30	—	2 pcs	67 g	10 pcs	200 pcs
100-010-151	SND- 70M	Stainless Steel (SUS304)	Mirror	70	17	46	—	2 pcs	95 g	10 pcs	200 pcs
100-010-152	SND- 95M	Stainless Steel (SUS304)	Mirror	95	18	65	—	2 pcs	130 g	5 pcs	100 pcs
100-010-153	SND-120M	Stainless Steel (SUS304)	Mirror	120	19	90	45	3 pcs	166 g	5 pcs	50 pcs
100-010-154	SND-150M	Stainless Steel (SUS304)	Mirror	150	19	114	57	3 pcs	208 g	5 pcs	50 pcs

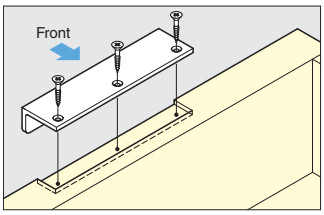
PULL

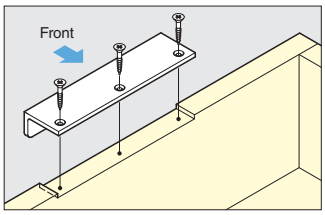
ANGU





■Installation

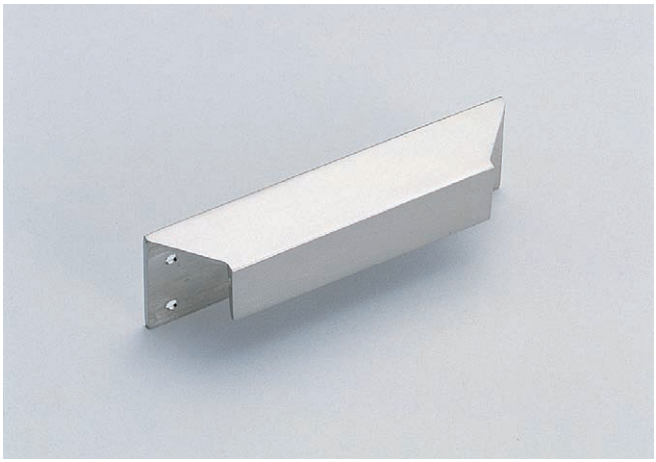


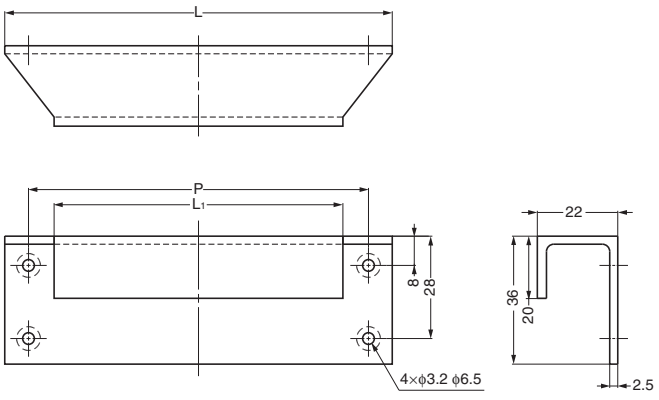


Item Code	Item Name	Material	Finish	L	P	Holes	Box	Carton
100-010-925	ANGU-A405	Brass	Satin Nickel	46	29	2 pcs	120 pcs	480 pcs
100-010-926	ANGU-A402	Brass	Satin Nickel	90	73	3 pcs	70 pcs	280 pcs

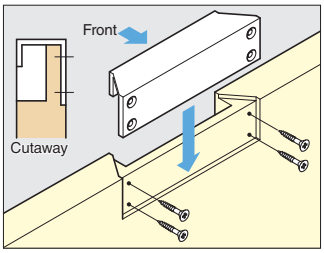
PULL

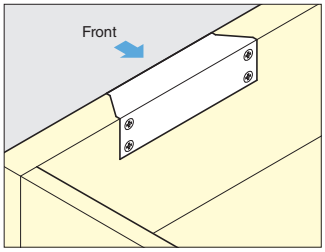
CHAN





■Installation





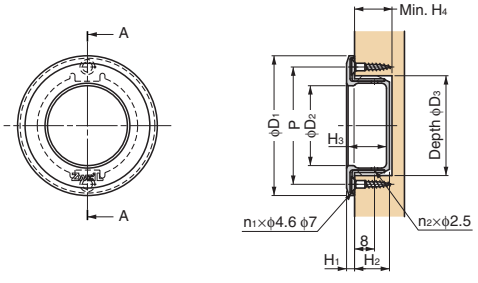
Item Code	Item Name	Material	Finish	L	L_1	P	Box	Carton
100-010-930	CHAN-A362	Brass	Satin Nickel	106	76	93	28 pcs	112 pcs
100-010-931	CHAN-A360	Brass	Satin Nickel	137	107	123	16 pcs	64 pcs



STAINLESS STEEL RECESSED PULL

ZL-2501





A-A Cutaway view

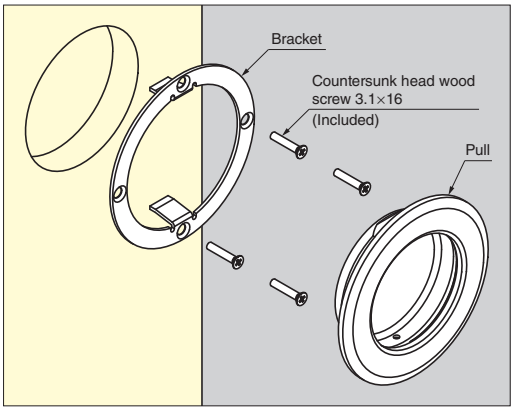
■Features

Superior finish of Mirror/Satin.

■Parts Included

Countersunk head wood screw 3.1×16 (SUS)

■Installation



Please insert the pull after installation of the bracket with screws.
(This picture refers to ZL-2501-56)

Item Code	Item Name	Material	Finish	D1	D2	D3	H1	H2	H3	H4	P	n1	n2	Weight
100-011-034	ZL-2501- 56	Stainless Steel (SUS316)	Zwei L Finish	56	32	40	3.2	14	16	15	47	2	2	93 g
100-011-035	ZL-2501- 80	Stainless Steel (SUS316)	Zwei L Finish	80	50	62	4	14	16.5	15	70	4	2	196 g
100-011-036	ZL-2501-125	Stainless Steel (SUS316)	Zwei L Finish	125	80	100	5	16	20	17	112	4	4	610 g

STAINLESS STEEL RECESSED PULL

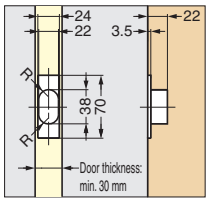
YK-70

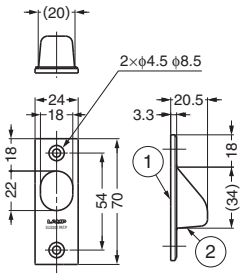


■Parts Included

Countersunk head tapping screw 4×20 (SUS)

■Cut Out Dimensions





No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Case	Stainless Steel (SUS304)	Plain

Item Code	Item Name	Weight	Box	Carton
100-010-390	YK-70	37 g	20 pcs	200 pcs

STAINLESS STEEL RECESSED PULL

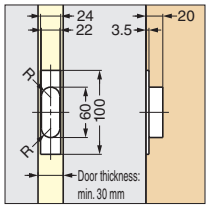
YK-W100

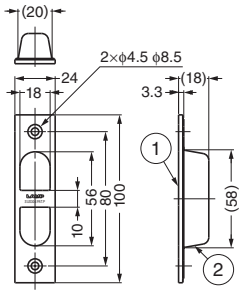


■Parts Included

Countersunk head tapping screw 4×20 (SUS)

■Cut Out Dimensions



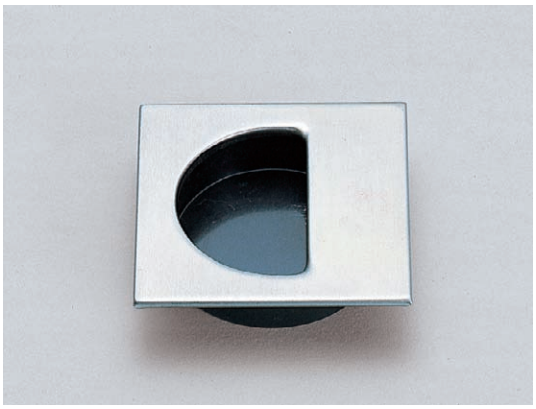


No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Case	Stainless Steel (SUS304)	Plain

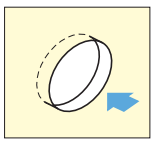
Item Code	Item Name	Weight	Box	Carton
100-010-391	YK-W100	45 g	20 pcs	160 pcs

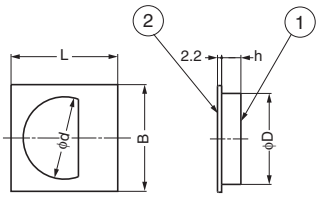
STAINLESS STEEL RECESSED PULL

SKH



■Installation





No.	Material	Finish/Colour
①	High Impact Polystyrene	Black
②	Stainless Steel (SUS304)	Satin

Item Code	Item Name	L	B	h	D	d	Weight	Box	Carton
100-010-179	SKH-44	44	44	9.8	35.1	31	10 g	100 pcs	1,000 pcs
100-010-177	SKH-47	47	47	10.3	37.6	34	11 g	60 pcs	1,440 pcs
100-010-178	SKH-57	57	57	10.3	48.6	44	16 g	50 pcs	1,200 pcs

LARGE RECESSED PULL

HH-M


HH-M400

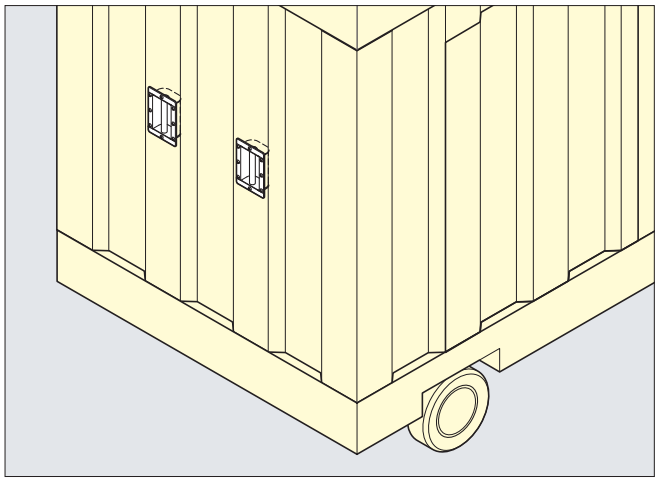
■Features

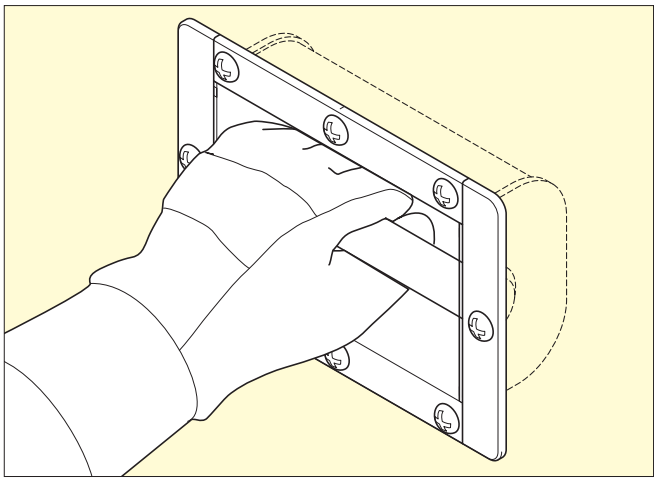
Handlebar does not protrude from the face of the handle.

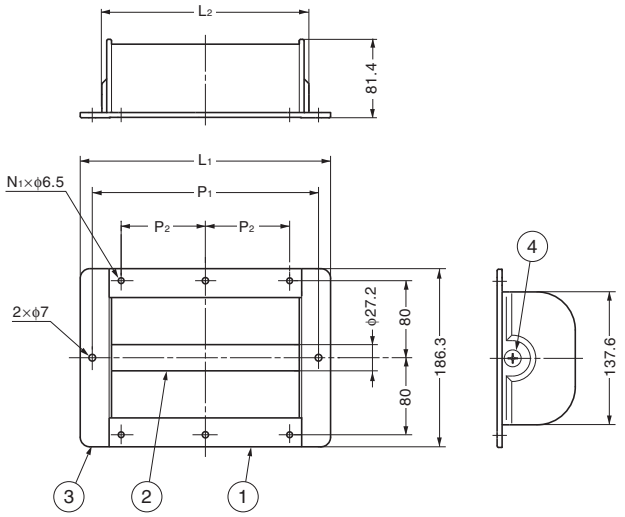
■Parts Included

- Truss head screw M6×16 (SUS)
- Nut M6 (SUS)

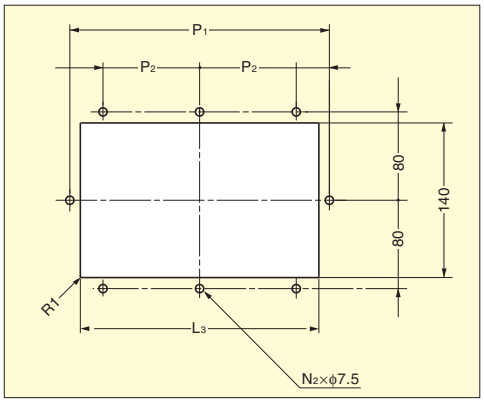
■Application Example







■Cut Out Dimensions



No.	Part Name	Material	Finish
①	Cup	Stainless Steel (SUS304)	Mirror
②	Bar	Stainless Steel (SUS304)	Mirror
③	Cover	Stainless Steel (SCS13)	Mirror
④	Countersunk Head Screw M8×15	Stainless Steel	—

※SCS13 is equivalent of SUS304.

Item Code	Item Name	L_1	L_2	L_3	P_1	P_2	N_1	N_2	Load Capacity		Weight	Box	Carton
100-012-306	HH-M200	260	215	218	235	87.5	6	8	4500 N	459 kgf	2.6 kg	1 pc	4 pcs
100-012-305	HH-M400	460	415	418	435	125	8	10	2200 N	224 kgf	3.7 kg	1 pc	2 pcs

RECESSED PULL WITH VENTILATOR

STAINLESS 304 STEEL STAINLESS

UTA-105



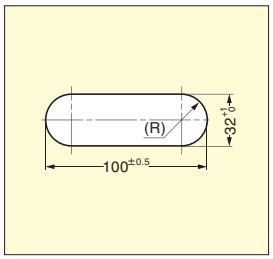
■Features

- With ventilator function.
- Excellent chemical resistance.

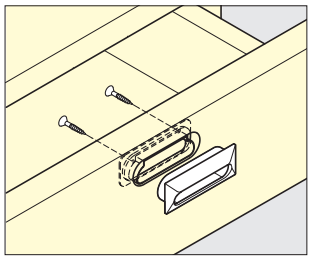
■Parts Included

Countersunk head tapping screw 4×20 (SUS)

■Cut Out Dimensions

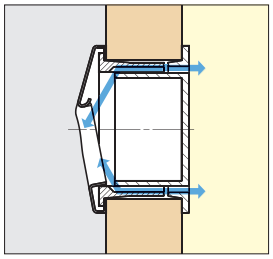


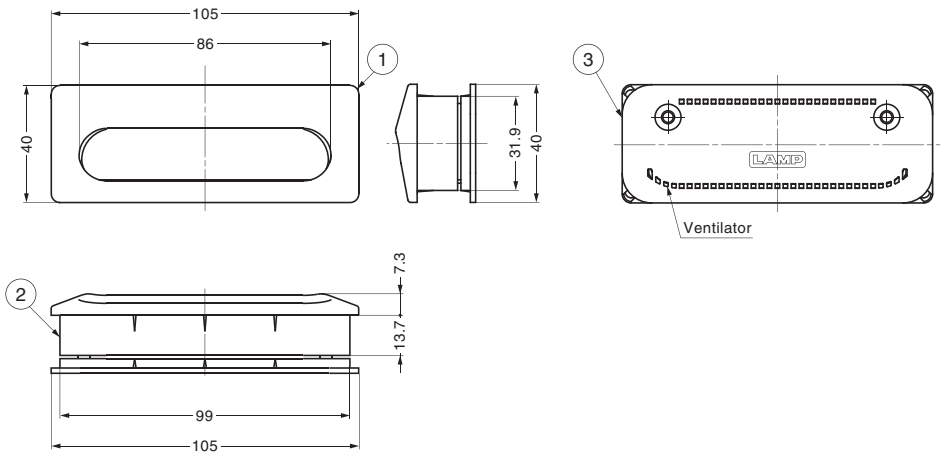
■Installation





■Air Flow





No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Cup	ABS	—
③	Back Cover	ABS	—

Item Code	Item Name	Colour	Max. Exhaust Area	Door Thickness	Weight	Box	Carton
100-026-733	UTA-105BL	Black	136 mm²	18～25	40 g	15 pcs	150 pcs
100-026-734	UTA-105GR	Light Grey	136 mm²	18～25	40 g	15 pcs	150 pcs
100-026-735	UTA-105IV	Ivory	136 mm²	18～25	40 g	15 pcs	150 pcs

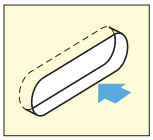
STAINLESS STEEL RECESSED PULL

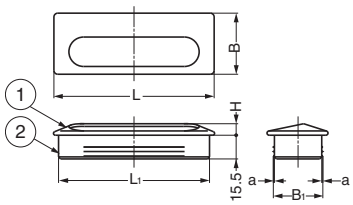
STAINLESS 304 STEEL

UT



■Installation





No.	Material	Finish/Colour
①	Stainless Steel (SUS304)	Satin
②	High Impact Polystyrene	Black

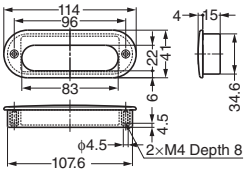
Item Code	Item Name	L	L1	H	B	B1	a	Weight	Box	Carton
100-010-004	UT- 75	75	71	7	36	30.8	0.4	15 g	40 pcs	400 pcs
100-010-161	UT-105	105	99	7.5	40	32.5	0.5	30 g	25 pcs	250 pcs
100-012-850	UT-140	140	134	7.5	47	40.5	0.5	45 g	15 pcs	150 pcs

STAINLESS STEEL RECESSED PULL

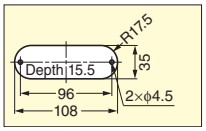
STAINLESS 316 STEEL

HH-D

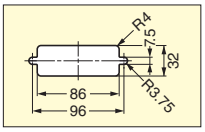




■Cut Out Dimensions (For wood door)



■Cut Out Dimensions (For metal door)



■Features

Sheet metal thickness: max. 2 mm

■Parts Included

- For wood panel t = 20: truss head tapping screw M4×15 (SUS)
- For sheet metal t = 2: truss head tapping screw M4×10 (SUS)

Item Code	Item Name	Material	Finish/Colour	Weight	Box	Carton
100-012-951	HH-D	Stainless Steel (SCS14)/ABS	Mirror/Black	85 g	10 pcs	60 pcs

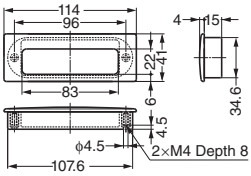
※SCS14 is equivalent of SUS316.

STAINLESS STEEL RCESSED PULL

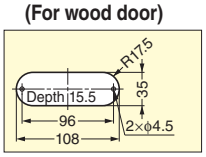
STAINLESS 316 STEEL

HH-K

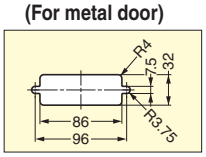




■Cut Out Dimensions (For wood door)



■Cut Out Dimensions (For metal door)



■Features

Sheet metal thickness: max. 2 mm

■Parts Included

- For wood panel t = 20: truss head tapping screw M4×15 (SUS)
- For sheet metal t = 2: truss head tapping screw M4×10 (SUS)

Item Code	Item Name	Material	Finish/Colour	Weight	Box	Carton
100-012-952	HH-K	Stainless Steel (SCS14)/ABS	Mirror/Black	90 g	10 pcs	60 pcs

※SCS14 is equivalent of SUS316.

STAINLESS STEEL RECESSED PULL

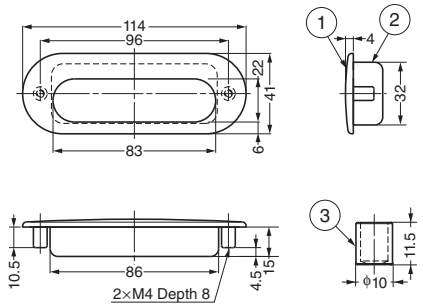
STAINLESS 316 STEEL | STAINLESS

HH-DS114

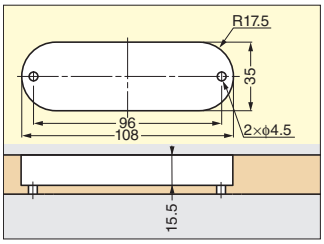


■Parts Included

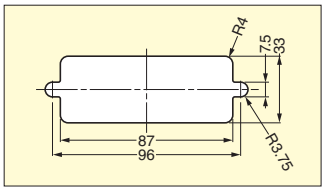
- For wood panel t = 20: truss head tapping screw M4×15 (SUS)
- For sheet metal t = 2: truss head tapping screw M4×8 (SUS)



■Cut Out Dimensions (For wood door)



■Cut Out Dimensions (For metal door)



No.	Part Name	Material	Finish
①	Body	Stainless Steel (SCS14)	Mirror/Satin
②	Cup	Stainless Steel (SUS304)	Satin
③	Spacer	Stainless Steel (SUS304)	—

※SCS14 is equivalent of SUS316.

Item Code	Item Name	Finish	Weight	Box	Carton
100-010-585	HH-DS 114M	Mirror	105 g	10 pcs	60 pcs
100-010-586	HH-DS 114S	Satin	105 g	10 pcs	60 pcs

STAINLESS STEEL RECESSED PULL

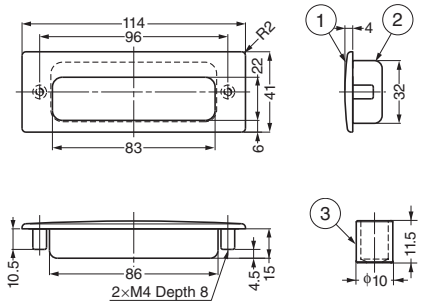
STAINLESS 316 STEEL | STAINLESS

HH-KS114

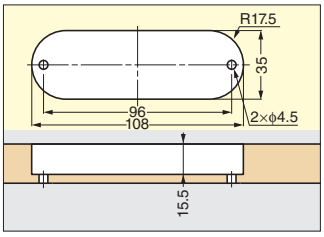


■Parts Included

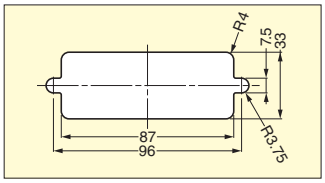
- For wood panel t = 20: truss head tapping screw M4×15 (SUS)
- For sheet metal t = 2: truss head tapping screw M4×8 (SUS)



■Cut Out Dimensions (For wood door)



■Cut Out Dimensions (For metal door)

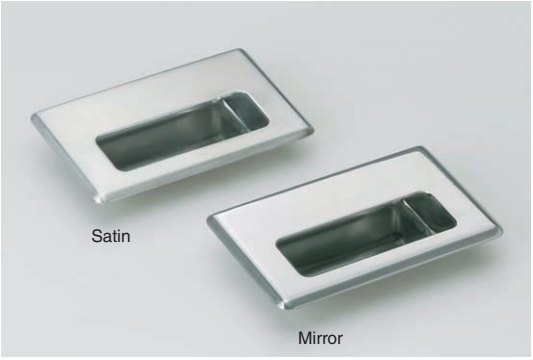


No.	Part Name	Material	Finish
①	Body	Stainless Steel (SCS14)	Mirror/Satin
②	Cup	Stainless Steel (SUS304)	Satin
③	Spacer	Stainless Steel (SUS304)	—

Item Code	Item Name	Finish	Weight	Box	Carton
100-010-583	HH-KS 114M	Mirror	110 g	10 pcs	60 pcs
100-010-584	HH-KS 114S	Satin	110 g	10 pcs	60 pcs

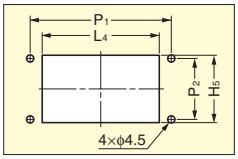
STAINLESS STEEL RECESSED PULL

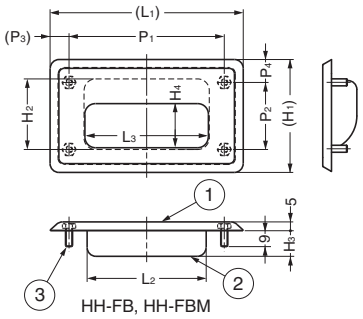
HH



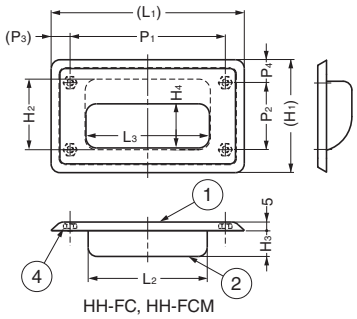
No.	Part Name	Material	Finish
①	Front Plate	Stainless Steel (SUS304)	Satin, Mirror
②	Back Cover	Stainless Steel (SUS304)	Mirror
③	M4 Stud	Stainless Steel (SUS304)	Plain
④	M4 Nut	Stainless Steel (SUS304)	Plain

■Cut Out Dimensions





HH-FB, HH-FBM



HH-FC, HH-FCM

Item Code	Item Name	Bolt/Nut	L1	L2	L3	L4	H1	H2	H3	H4	H5	P1	P2	P3	P4	Weight	Carton
100-010-090	HH-FB-1	M4 Bolt	138	96	95	99	88	62	21	35	64	110	65	14	11.5	170 g	50 pcs
100-010-091	HH-FC-1	M4 Nut	138	96	95	99	88	62	21	35	64	110	65	14	11.5	170 g	50 pcs
100-010-092	HH-FB-2	M4 Bolt	109.5	71	70	73	64	40	14.5	25	42	88	38	10.75	13	100 g	100 pcs
100-010-093	HH-FC-2	M4 Nut	109.5	71	70	73	64	40	14.5	25	42	88	38	10.75	13	100 g	100 pcs
100-010-094	HH-FB-3	M4 Bolt	94	61	60	63	60	43	12	25	45	76	32	9	14	80 g	100 pcs
100-010-095	HH-FC-3	M4 Nut	94	61	60	63	60	43	12	25	45	76	32	9	14	80 g	100 pcs
100-012-104	HH-FB-1M	M4 Bolt	138	96	95	99	88	62	21	35	64	110	65	14	11.5	170 g	50 pcs
100-012-105	HH-FC-1M	M4 Nut	138	96	95	99	88	62	21	35	64	110	65	14	11.5	170 g	50 pcs
100-012-106	HH-FB-2M	M4 Bolt	109.5	71	70	73	64	40	14.5	25	42	88	38	10.75	13	100 g	100 pcs
100-012-107	HH-FC-2M	M4 Nut	109.5	71	70	73	64	40	14.5	25	42	88	38	10.75	13	100 g	100 pcs
100-012-108	HH-FB-3M	M4 Bolt	94	61	60	63	60	43	12	25	45	76	32	9	14	80 g	100 pcs
100-012-109	HH-FC-3M	M4 Nut	94	61	60	63	60	43	12	25	45	76	32	9	14	80 g	100 pcs

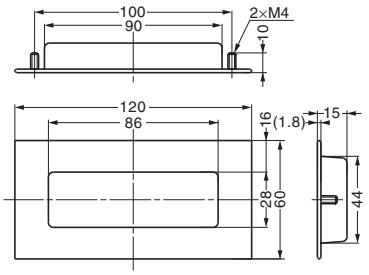
STAINLESS STEEL RECESSED PULL

HH-AS2

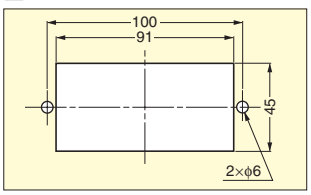


■Parts Included

M4 nut and washer



■Cut Out Dimensions

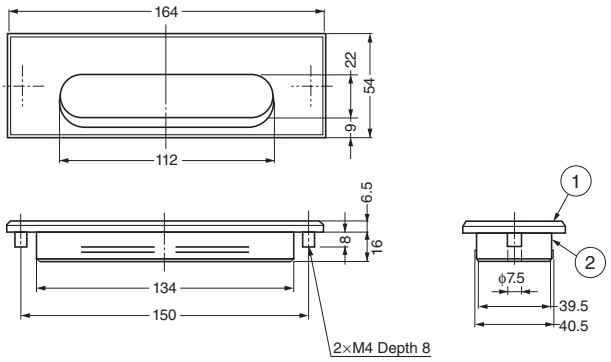


Item Code	Item Name	Material	Finish	Weight	Box	Carton
100-019-030	HH-AS2	Stainless Steel (SUS304)	Satin	50 g	12 pcs	240 pcs

RECESSED PULL

STEEL **SD-160**

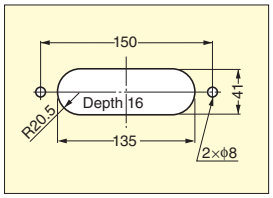




■Body

Item Code	Item Name	Finish	Weight	Box	Carton
100-010-194	SD-160WB	Satin Nickel	184 g	10 pcs	60 pcs
100-010-181	SD-160CR	Chrome	184 g	10 pcs	60 pcs

■Cut Out Dimensions



■Parts Included

Truss head screw M4×8

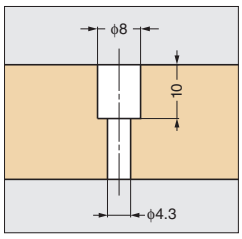
■Sold Separately

Spacer for sheet metal

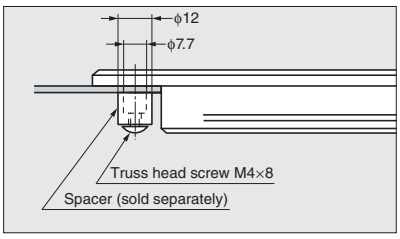
■Recommended Screw

Trus head screw M4×8 (For sheet metal)

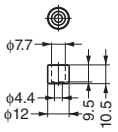
■Cut Out Dimensions for Wood Panel



■Sheet Metal Mounting Application



No.	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy (ZDC)	WB：Satin Nickel, CR：Chrome
②	Cup	ABS	Black



Spacer (for sheet metal)

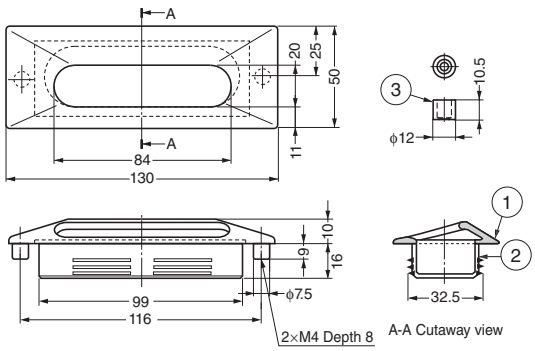
■Spacer (Sold Separately)

Item Code	Item Name	Material	Finish
100-019-635	BSP-8	Steel	Yellow Zinc Chromate

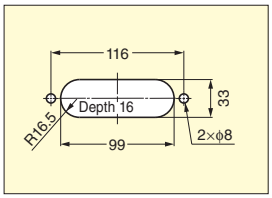
RECESSED PULL

STEEL **UTZ-130**





■Cut Out Dimensions



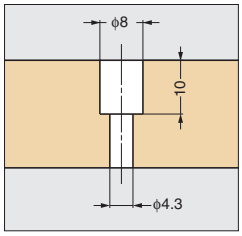
■Remarks

Screws for wood panel not included.

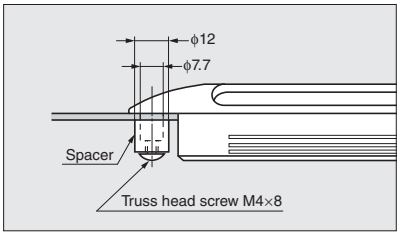
■Parts Included

- Truss head screw M4×8 (for sheet metal)
- Spacer (for sheet metal)

■Cut Out Dimensions for Wood Panel



■Sheet Metal Mounting Application



No.	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy (ZDC)	Chrome, Satin Nickel, Bronze
②	Cup	Plastic (HIPS)	Black
③	Spacer	Steel	Yellow Zinc Chromate

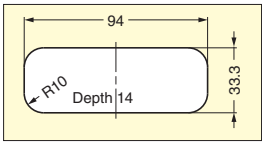
Item Code	Item Name	Finish	Weight	Box	Carton
100-010-225	UTZ-130WB	Satin Nickel	105 g	10 pcs	60 pcs
100-010-226	UTZ-130CR	Chrome	105 g	10 pcs	60 pcs
100-010-717	UTZ-130SCP	Bronze	105 g	10 pcs	60 pcs

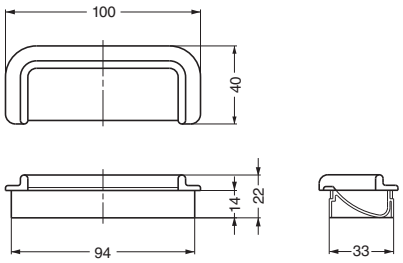
RECESSED PULL

UP-600



■Cut Out Dimensions





Item Code	Item Name	Material	Finish/Colour	Weight	Box	Carton
100-010-236	UP-600	ABS	Chrome, Black	25 g	50 pcs	300 pcs

RECESSED PULL

STEEL

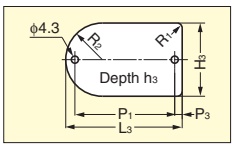
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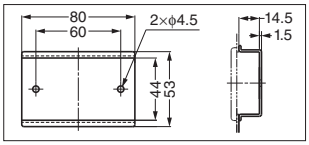
■Parts Included

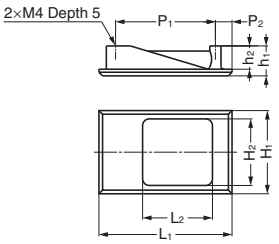
Truss head screw M4×12

■Cut Out Dimensions



■Bracket for Sheet Metal (example)



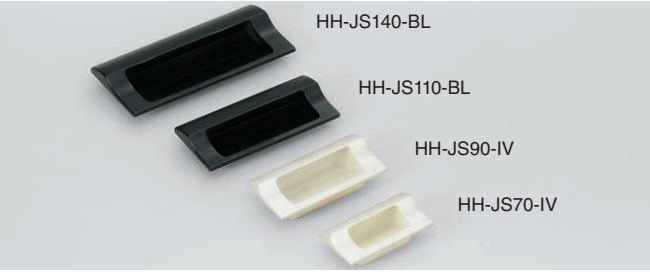


Item Code	Item Name	Material	Finish/Colour	L_1	L_2	H_1	H_2	h_1	h_2	P_1	P_2	L_3	H_3	P_3	R_1	R_2	h_3	Weight	Box	Carton
100-014-085	5103-55	Zinc Alloy (ZDC)	Satin Nickel	55	31.5	40	31.5	15.5	12.5	32	16	46	35	10	2	18	12.5	42 g	40 pcs	160 pcs
100-014-084	5103-80	Zinc Alloy (ZDC)	Satin Nickel	80	42	50	40	18	14	60	10	70	44	4.5	3	22	14	88 g	20 pcs	80 pcs

RECESSED PULL

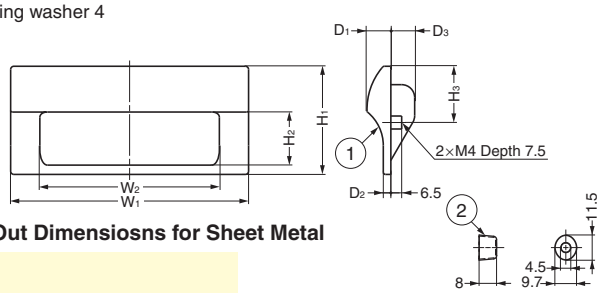
STEEL

HH-JS

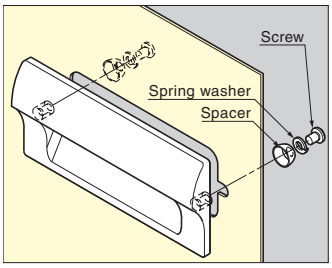


■Parts Included

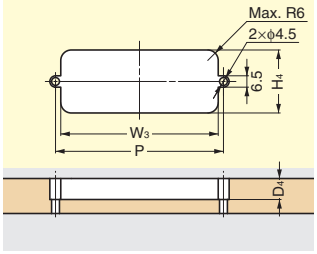
- Cross recessed pan head machine screw M4×10
- Spring washer 4



■How to Install

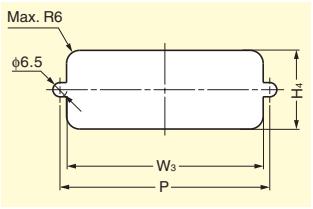


■Bore Dimensions for Wood Panel



※Screws for wood panel not included.

■Cut Out Dimensiosns for Sheet Metal

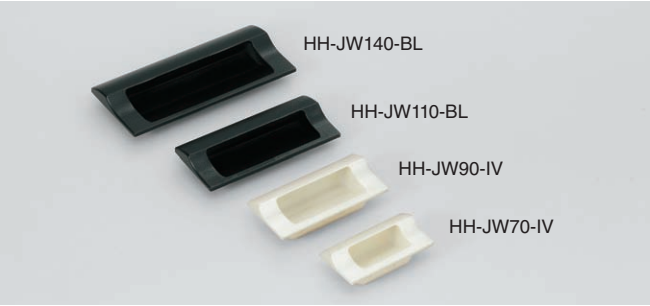


No.	Part Name	Material	Finish/Colour
①	Body	ABS + Polycarbonate (PC)	Black, Ivory
②	Spacer	Steel	Clear Zinc Chromate

Item Code	Item Name	Colour	W_1	W_2	H_1	H_2	H_3	D_1	D_2	D_3	D_4	P	W_3	H_4	Door Thickness	Weight
100-024-573	HH-JS70-BL	Black	70	43	38	17	19	10.5	3	9	10	58	48	25	0.5～3.2	20 g
100-024-574	HH-JS70-IV	Ivory	70	43	38	17	19	10.5	3	9	10	58	48	25	0.5～3.2	20 g
100-024-575	HH-JS90-BL	Black	90	63	44	21.5	22	11	3	11	10	78	68	31	0.5～3.2	25 g
100-024-576	HH-JS90-IV	Ivory	90	63	44	21.5	22	11	3	11	10	78	68	31	0.5～3.2	25 g
100-024-577	HH-JS110-BL	Black	110	82	50	24.4	26	11	3.5	11	12	96	90	36	0.5～3.2	38 g
100-024-578	HH-JS110-IV	Ivory	110	82	50	24.4	26	11	3.5	11	12	96	90	36	0.5～3.2	38 g
100-024-579	HH-JS140-BL	Black	140	109	64	34	33	11.5	3.5	11	12	126	116	48	0.5～3.2	56 g
100-024-580	HH-JS140-IV	Ivory	140	109	64	34	33	11.5	3.5	11	12	126	116	48	0.5～3.2	56 g

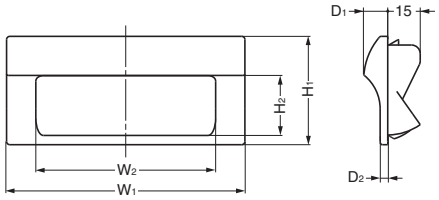
RECESSED PULL

HH-JW

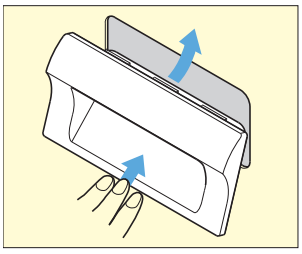


■Features

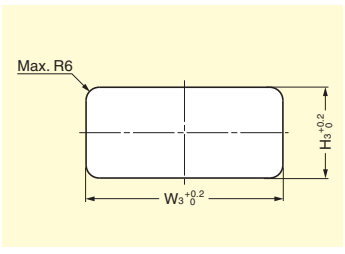
One touch installtaion.



■How to Install



■Cut Out Dimensions for Sheet Metal



■Cut Out Dimensions

Type	W_3	H_3			
		Board Thickness 0.8	Board Thickness 1.0～1.2	Board Thickness 1.5～2.0	Board Thickness 2.3
HH-JW70	46	28.7	29	29.4	30.8
HH-JW90	66	34.7	35	35.4	36.8
HH-JW110	88	40.7	41	41.4	42.8
HH-JW140	114	54.7	55	55.4	56.8

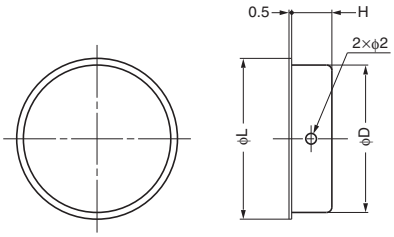
Item Code	Item Name	Material	Colour	W_1	W_2	H_1	H_2	D_1	D_2	Weight
100-024-581	HH-JW70-BL	ABS + Polycarbonate (PC)	Black	70	43	38	18.5	10.5	3	14 g
100-024-582	HH-JW70-IV	ABS + Polycarbonate (PC)	Ivory	70	43	38	18.5	10.5	3	14 g
100-024-583	HH-JW90-BL	ABS + Polycarbonate (PC)	Black	90	63	44	22.9	11	3	21 g
100-024-584	HH-JW90-IV	ABS + Polycarbonate (PC)	Ivory	90	63	44	22.9	11	3	21 g
100-024-585	HH-JW110-BL	ABS + Polycarbonate (PC)	Black	110	83	50	26.8	11.5	3.5	35 g
100-024-586	HH-JW110-IV	ABS + Polycarbonate (PC)	Ivory	110	83	50	26.8	11.5	3.5	35 g
100-024-587	HH-JW140-BL	ABS + Polycarbonate (PC)	Black	140	109	64	37.8	11.5	3.5	53 g
100-024-588	HH-JW140-IV	ABS + Polycarbonate (PC)	Ivory	140	109	64	37.8	11.5	3.5	53 g

STAINLESS STEEL RECESSED PULL

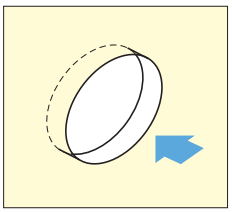
STAINLESS 304 STEEL

SMH





■Installation



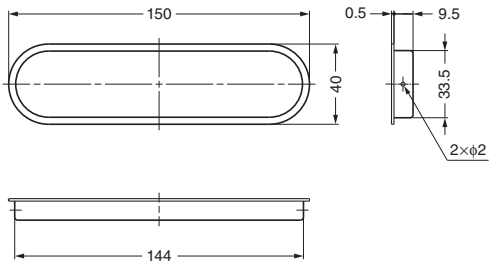
Item Code	Item Name	Material	Finish	L	H	D	Weight	Box	Carton
100-010-184	SMH-30	Stainless Steel (SUS304)	Satin	30	7.5	27.5	4 g	100 pcs	3,600 pcs
100-010-185	SMH-37	Stainless Steel (SUS304)	Satin	36	8.5	31.5	6 g	100 pcs	3,600 pcs
100-010-186	SMH-45	Stainless Steel (SUS304)	Satin	46	8.5	41	9.5 g	100 pcs	2,400 pcs
100-010-187	SMH-60	Stainless Steel (SUS304)	Satin	60	9.5	53.5	15 g	50 pcs	1,200 pcs
100-010-188	SMH-80	Stainless Steel (SUS304)	Satin	80	9.5	71	25.5 g	25 pcs	500 pcs

STAINLESS STEEL RECESSED PULL

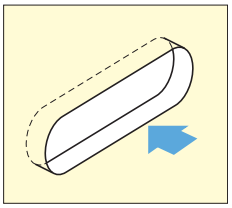
STAINLESS 304 STEEL

OP-150





■Installation



Item Code	Item Name	Material	Finish	Weight	Box	Carton
100-015-016	OP-150	Stainless Steel (SUS304)	Satin	30 g	30 pcs	720 pcs

STAINLESS STEEL RECESSED PULL

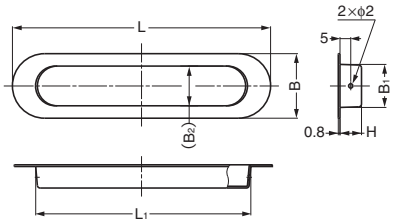
STAINLESS 304 STEEL

HN

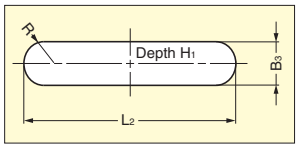


■Parts Included

ϕ1.2×10 nail (SUS)



■Cut Out Dimensions

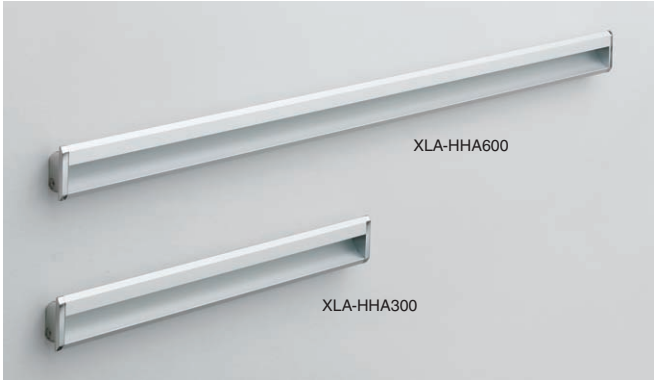


Item Code	Item Name	Material	Finish	L	L1	H	B	B1	B2	L2	B3	H1	Weight	Box	Carton
100-012-953	HN-120SH	Stainless Steel (SUS304)	Satin	120	100	10	30	20	18.5	100.5	20.5	10.5	19 g	50 pcs	500 pcs
100-012-954	HN-150SH	Stainless Steel (SUS304)	Satin	150	130	12	35	26	24.5	130.5	26.5	12.5	27 g	20 pcs	200 pcs
100-012-955	HN-200SH	Stainless Steel (SUS304)	Satin	200	170	13.2	50	36	34.5	170.5	36.5	13.7	50 g	10 pcs	100 pcs
100-012-956	HN-250SH	Stainless Steel (SUS304)	Satin	250	220	13.2	50	36	34.5	220.5	36.5	13.7	92 g	10 pcs	100 pcs

RECESSED PULL

STAINLESS

XLA-HHA



■Features

- Can be cut into appropriate length.
- Bracket for sheet metal available. Item No.: XLA-HHA40B

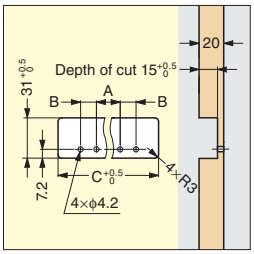
■Parts Included

Truss head screw M4×10 (SUS)

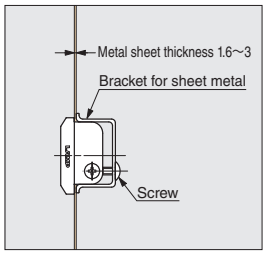
■Sold Separately

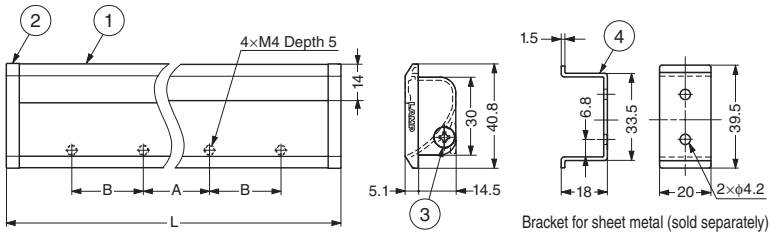
Bracket for sheet metal XLA-HHA40B

■Cut Out Dimensions (For Wood)



■Sheet Metal Mounting Application





No.	Part Name	Material	Finish
①	Body	Aluminium Alloy	Silver Anodized
②	Cover	Zinc Alloy (ZDC)	Chrome
③	Screw	Stainless Steel	–
④	Bracket (Option)	Stainless Steel (SUS430)	Polished

■Body

Item Code	Item Name	L	A	B	C	Weight	Box
100-010-190	XLA-HHA300	300	100	50	297	140 g	100 pcs
100-010-191	XLA-HHA600	600	200	150	597	245 g	50 pcs

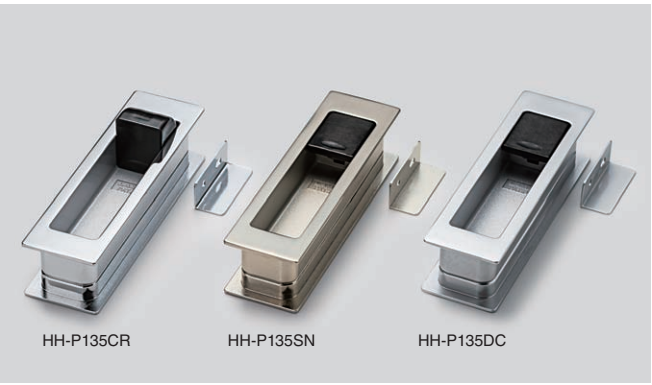
■Bracket for Sheet Metal (Sold Separately)

Item Code	Item Name
100-010-189	XLA-HHA40B

RECESSED PULL

STEEL

HH-P135



■Features

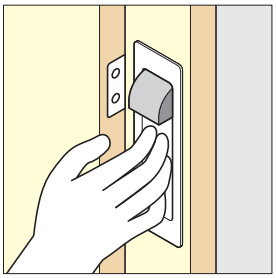
- Door stopper can be flipped-out to prevent door from entering pocket and pinching fingers.
- Door stopper can be flipped-in to completely open the door.
- Applicatable for 40-50 mm door by using longer screws.

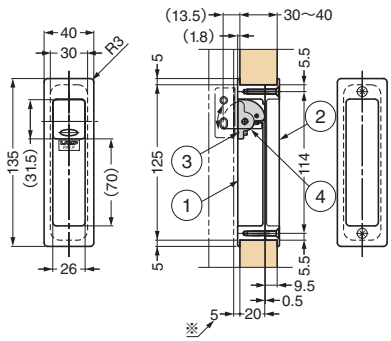
■Remarks

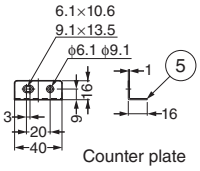
In case using with counter plate, set the gap (※) 7 mm.

■Parts Included

Countersunk head screw M4×25

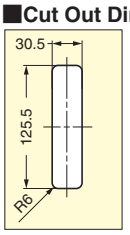






Counter plate

■Cut Out Dimensions



No.	Part Name	Material	Finish/Colour
①	Pull A	Zinc Alloy (ZDC)	Satin Nickel, Chrome, Dull Chrome
②	Pull B		
③	Protector	Polyurethane (PUR)	Black
④	Shaft	Stainless Steel (SUS304)	Plain
⑤	Strike Plate	Steel (SPCC)	Satin Nickel, Chrome, Dull Chrome

Item Code	Item Name	Finish	Door Thickness	Weight	Box	Carton
100-010-096	HH-P135SN	Satin Nickel	30~40	290 g	5 pcs	50 pcs
100-010-097	HH-P135CR	Chrome	30~40	290 g	5 pcs	50 pcs
100-010-098	HH-P135DC	Dull Chrome	30~40	290 g	5 pcs	50 pcs

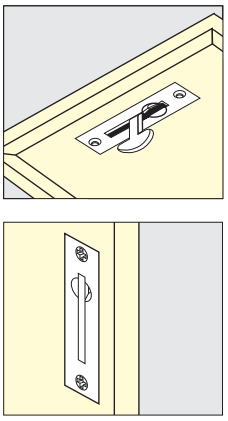
STAINLESS STEEL HATCH PULL

STAINLESS 304 STEEL · STAINLESS

ST-90, ST-115

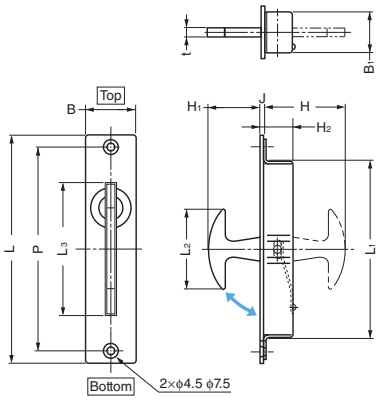


■Application Example



■Parts Included

Countersunk head wood screw (SUS)

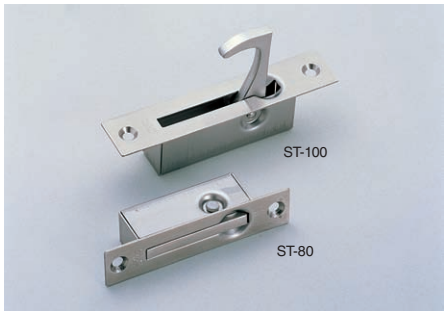


Item Code	Item Name	Material	Finish	L	L₁	L₂	L₃	H	H₁	H₂	J	B	B₁	t	P	Screw	Weight	Box	Carton
100-010-240	ST- 90	Stainless Steel (SUS304)	Satin	90	66.2	30.2	57	35.5	23.2	10.5	2.2	22	18.5	3.8	80	3.5×22	68 g	30 pcs	300 pcs
100-010-241	ST-115	Stainless Steel (SUS304)	Satin	115	86.2	40	67	42	26	13	2.5	25	20	4	102	3.5×25	102 g	20 pcs	200 pcs

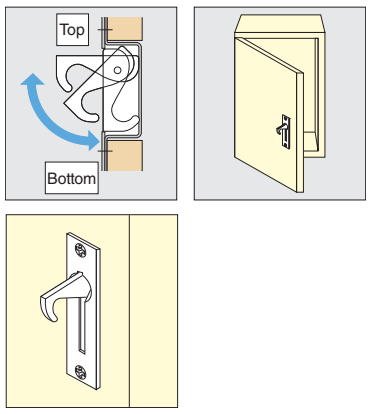
STAINLESS STEEL HATCH PULL

STAINLESS 304 STEEL · STAINLESS

ST-80, ST-100

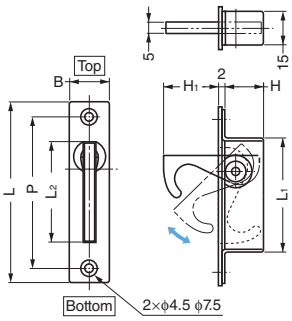


■Application Example



■Parts Included

Countersunk head wood screw (SUS)



Item Code	Item Name	Material	Finish	L	L₁	L₂	H	H₁	B	P	Screw	Weight	Box	Carton
100-010-244	ST- 80	Stainless Steel (SUS304)	Satin	80	50	44	18	25	18	68	3.5×16	48 g	30 pcs	300 pcs
100-010-245	ST-100	Stainless Steel (SUS304)	Satin	100	63	54	21	32	20	85	3.5×20	66 g	20 pcs	200 pcs

RECESSED LEVER PULL

STEEL

FH-100-K

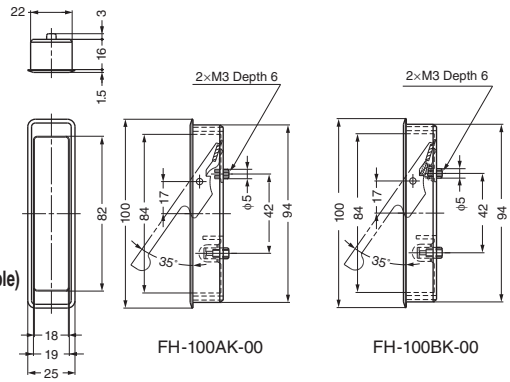


■Features

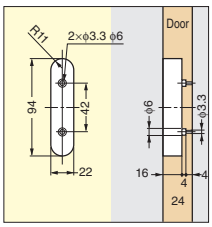
- AK type: The lever is held at multiple opening position.
- BK type: The lever is held closed by spring.
- Please use bracket for application on sheet metal.
- Door thickness: min. 25 mm

■Parts Included

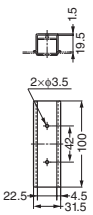
Truss head screw M3×12



■Cut Out Dimensions



■Bracket for Sheet Metal (example)

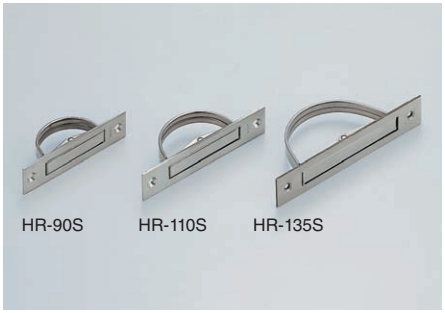


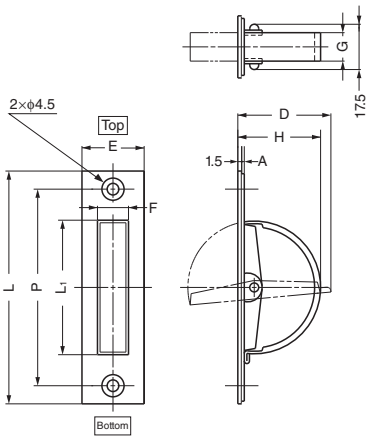
Item Code	Item Name	Material	Finish		Weight	Box	Carton
			Body	Handle			
100-010-251	FH-100AK-00	Zinc Alloy (ZDC)	Nickel	Satin Nickel	105 g	12 pcs	72 pcs
100-010-252	FH-100BK-00	Zinc Alloy (ZDC)	Nickel	Satin Nickel	105 g	12 pcs	72 pcs

STAINLESS STEEL HATCH PULL

TEST METHOD 2 | STAINLESS 304 STEEL | STAINLESS

HR





■Parts Included

- HR-90S: Countersunk head wood screw 3.5×22 (SUS)
- HR-110S & HR-135S: Countersunk head wood screw 3.5×25 (SUS)

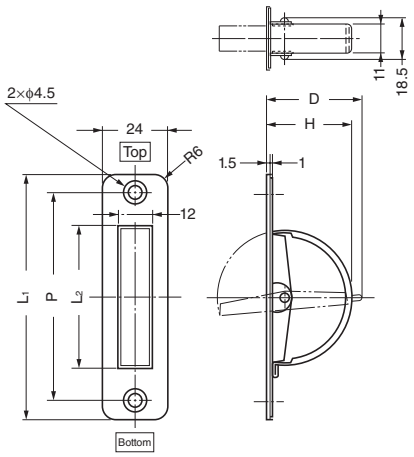
Item Code	Item Name	Material	Finish	L	L1	P	H	D	A	E	F	G	Load Capacity		Weight	Box	Carton
100-012-614	HR- 90S	Stainless Steel (SUS304)	Satin	90	52	76	32	36	1	24	12	11	127 N	13 kgf	49 g	30 pcs	300 pcs
100-012-615	HR-110S	Stainless Steel (SUS304)	Satin	110	64	94	38	42	1	24	12	11	98 N	10 kgf	59 g	20 pcs	200 pcs
100-012-817	HR-135S	Stainless Steel (SUS304)	Satin	135	90	115	50	55	1.2	25	12.2	12	74 N	7.5 kgf	88 g	15 pcs	150 pcs

STAINLESS STEEL HATCH PULL

TEST METHOD 2 | STAINLESS 304 STEEL | STAINLESS

HR-RS





■Parts Included

Countersunk head wood screw 3.5×22 (SUS)

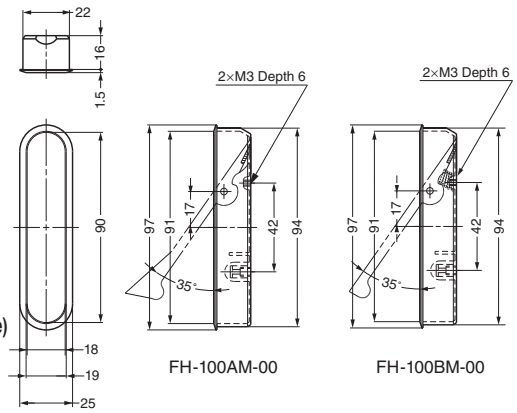
Item Code	Item Name	Material	Finish	L1	L2	P	H	D	Load Capacity		Weight	Box	Carton
100-019-058	HR- 90RS	Stainless Steel (SUS304)	Satin	90	52	76	32	36	127 N	13 kgf	46 g	30 pcs	300 pcs
100-019-059	HR-110RS	Stainless Steel (SUS304)	Satin	110	64	94	38	42	98 N	10 kgf	55 g	20 pcs	200 pcs

RECESSED LEVER PULL

STEEL

FH-100-M





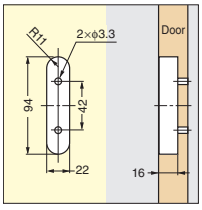
■Features

- AM type: The lever is held at multiple opening position.
- BM type: The lever is held closed by spring.
- Please use bracket for application on sheet metal.
- Door thickness: min. 25 mm

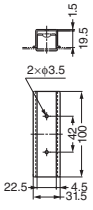
■Parts Included

Truss head screw M3×14

■Cut Out Dimensions



■Bracket for Sheet Metal (example)



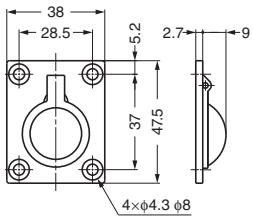
Item Code	Item Name	Material	Finish		Weight	Box	Carton
			Body	Handle			
100-010-444	FH-100AM-00	Zinc Alloy (ZDC)	Nickel	Satin Nickel	103.5 g	12 pcs	72 pcs
100-010-445	FH-100BM-00	Zinc Alloy (ZDC)	Nickel	Satin Nickel	103.5 g	12 pcs	72 pcs

STAINLESS STEEL RING PULL

STAINLESS 316 STEEL

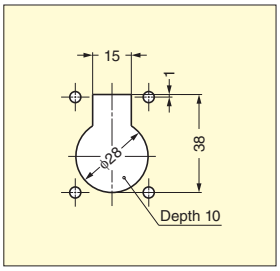
26900





■Recommended Screw
Countersunk head tapping screw 3.5

■Cut Out Dimensions



Item Code	Item Name	Material	Finish	Weight	Box	Carton
100-096-009	26900	Stainless Steel (SCS14)	Mirror	45 g	20 pcs	100 pcs

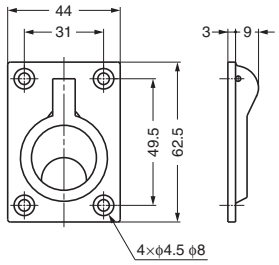
※SCS14 is equivalent of SUS316.

STAINLESS STEEL RING PULL

STAINLESS 316 STEEL

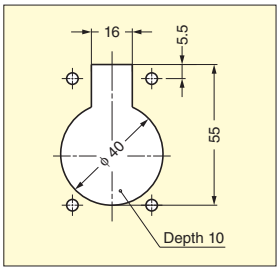
26901





■Recommended Screw
Countersunk head tapping screw 3.5

■Cut Out Dimensions



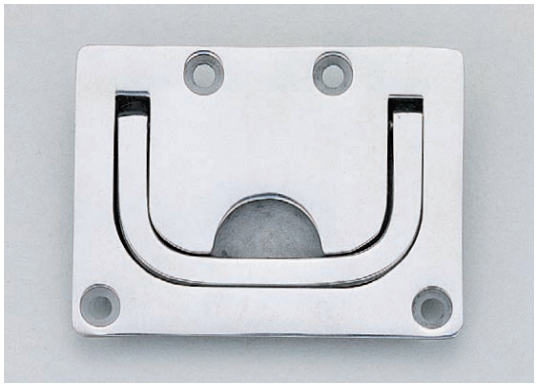
Item Code	Item Name	Material	Finish	Weight	Box	Carton
100-096-010	26901	Stainless Steel (SCS14)	Mirror	85 g	20 pcs	100 pcs

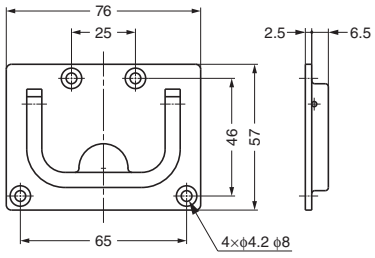
※SCS14 is equivalent of SUS316.

STAINLESS STEEL RING PULL

STAINLESS 316 STEEL

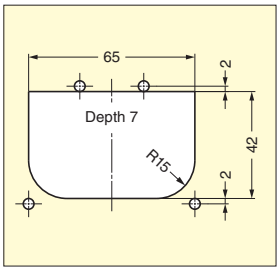
26700





■Recommended Screw
Countersunk head tapping screw 3.5

■Cut Out Dimensions



Item Code	Item Name	Material	Finish	Weight	Box	Carton
100-096-011	26700	Stainless Steel (SCS14)	Mirror	120 g	10 pcs	100 pcs

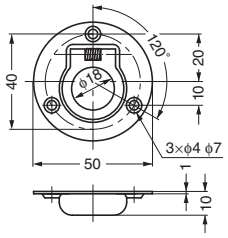
※SCS14 is equivalent of SUS316.

STAINLESS STEEL RING PULL

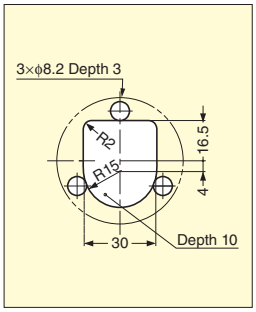
TEST METHOD 2 | STAINLESS 304 STEEL | STAINLESS

980640





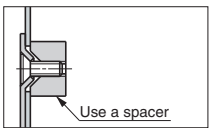
■Cut Out Dimensions



■Parts Included

Tapping screw 3x16 (SUS)

■For Sheet Metal

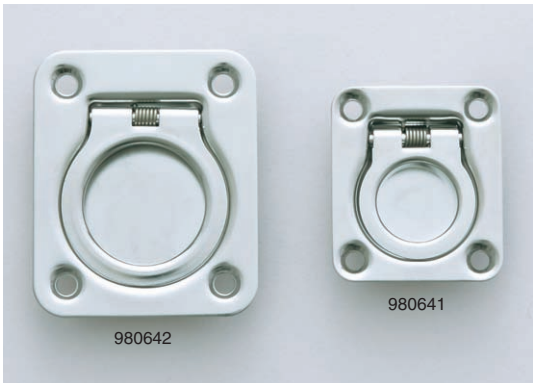


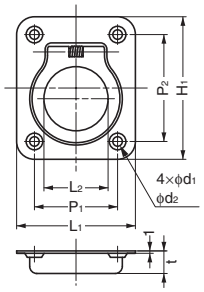
Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box
100-011-740	980640	Stainless Steel (SUS304)	Mirror	196 N	20 kgf	23 g	10 pcs

STAINLESS STEEL RING PULL

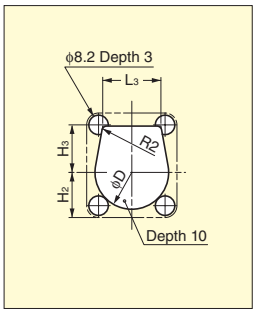
TEST METHOD 2 | STAINLESS 304 STEEL | STAINLESS

980641, 980642





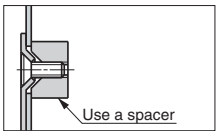
■Cut Out Dimensions



■Parts Included

●980641:
Tapping screw 3x16 (SUS)
●980642:
Tapping screw 3.5x16 (SUS)

■For Sheet Metal



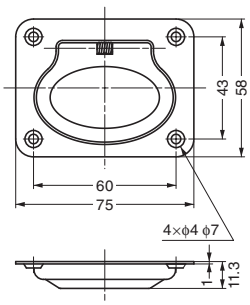
Item Code	Item Name	Material	Finish	L_1	L_2	L_3	H_1	H_2	H_3	D	t	P_1	P_2	d_1	d_2	Load Capacity		Weight	Box
100-011-737	980641	Stainless Steel (SUS304)	Mirror	38	18	24.5	44	19	19.5	31	10	28	34	4	6.2	196 N	20 kgf	21 g	10 pcs
100-011-738	980642	Stainless Steel (SUS304)	Mirror	50	27	25	60	25	25	41	9.5	35	45	4.4	7	245 N	25 kgf	36 g	10 pcs

STAINLESS STEEL RING PULL

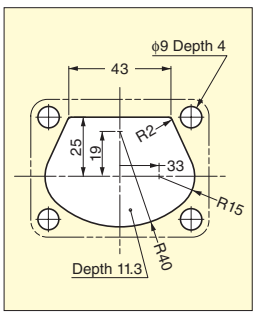
TEST METHOD 2 | STAINLESS 304 STEEL | STAINLESS

980643





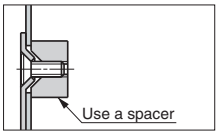
■Cut Out Dimensions



■Parts Included

Tapping screw 3.5x16 (SUS)

■For Sheet Metal



Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box
100-011-739	980643	Stainless Steel (SUS304)	Mirror	245 N	25 kgf	51 g	10 pcs

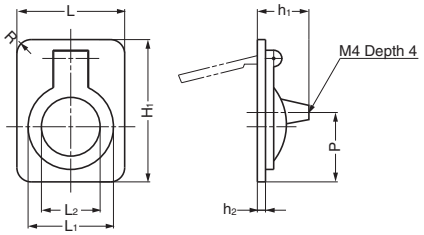
RING PULL

STEEL 587

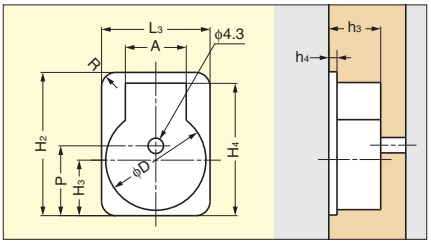


■Parts Included

M4x25 truss head screw



■Cut Out Dimensions



Item Code	Item Name	Material	Finish	L	L1	L2	H1	h1	h2	P	L3	H2	H3	H4	A	D	h3	h4	R	Weight	Box
100-016-010	587-40WB	Brass	Satin Nickel	30.5	24	16.5	40.3	13.6	2	20.6	30.5	40.3	16	39	18	28	15	2	4	40 g	100 pcs
100-016-011	587-40SB	Brass	Satin	30.5	24	16.5	40.3	13.6	2	20.6	30.5	40.3	16	39	18	28	15	2	4	40 g	100 pcs
100-016-014	587-50WB	Brass	Satin Nickel	38	30.5	21	51	14	2.5	25.5	38	51	21	48.5	21	35	15	2.5	6	59 g	50 pcs
100-016-015	587-50SB	Brass	Satin	38	30.5	21	51	14	2.5	25.5	38	51	21	48.5	21	35	15	2.5	6	59 g	50 pcs
100-016-018	587-60WB	Brass	Satin Nickel	47.5	36	24.5	60	15.5	2.5	30	47.5	60	23.5	55	21	41.5	16.5	2.5	6.5	86 g	50 pcs
100-016-019	587-60SB	Brass	Satin	47.5	36	24.5	60	15.5	2.5	30	47.5	60	23.5	55	21	41.5	16.5	2.5	6.5	86 g	50 pcs

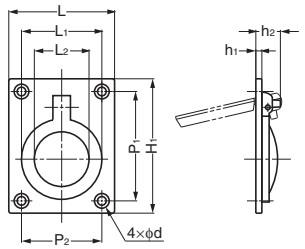
RING PULL

STEEL 587B

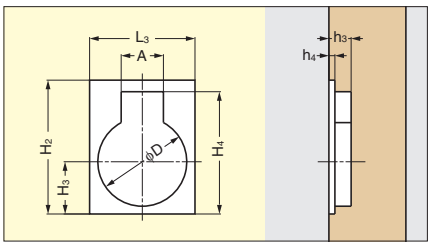


■Parts Included

Slotted countersunk head wood screw 3.1x20



■Cut Out Dimensions



Item Code	Item Name	Material	Finish	L	L1	L2	H1	P1	P2	P3	d	h1	h2	L3	H2	H3	H4	H5	A	D	h3	h4	Weight	Box
100-016-012	587B-40WB	Brass	Satin Nickel	30.5	24	16.5	40.3	32	22	11.85	3.5	2	11	30.5	40.3	16	39	32	18	28	13	2	28 g	100 pcs
100-016-013	587B-40SB	Brass	Satin	30.5	24	16.5	40.3	32	22	11.85	3.5	2	11	30.5	40.3	16	39	32	18	28	13	2	28 g	100 pcs
100-016-016	587B-50WB	Brass	Satin Nickel	38	30.5	21	51	41	28	15.5	4	2.5	12.7	38	51	21	48.5	41	21	35	15	2.5	54 g	50 pcs
100-016-017	587B-50SB	Brass	Satin	38	30.5	21	51	41	28	15.5	4	2.5	12.7	38	51	21	48.5	41	21	35	15	2.5	54 g	50 pcs
100-016-020	587B-60WB	Brass	Satin Nickel	47.5	36	24.5	60	49	36	18	4	2.5	13	47.5	60	23.5	55	49	21	41.5	14	2.5	80 g	50 pcs
100-016-021	587B-60SB	Brass	Satin	47.5	36	24.5	60	49	36	18	4	2.5	13	47.5	60	23.5	55	49	21	41.5	14	2.5	80 g	50 pcs

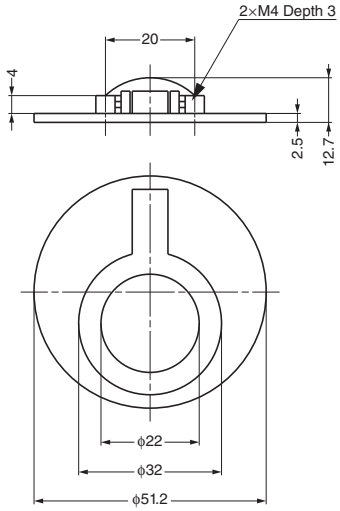
RING PULL

STEEL **580**

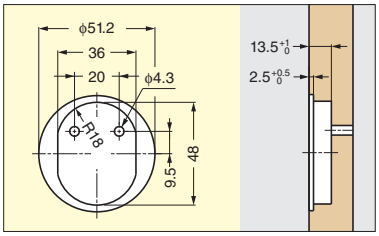


■**Parts Included**

M4x25 truss head screw



■**Cut Out Dimensions**



Item Code	Item Name	Material	Finish	Weight	Box
100-016-025	580-WB	Brass	Satin Nickel	62 g	50 pcs
100-016-026	580-SB	Brass	Satin	62 g	50 pcs

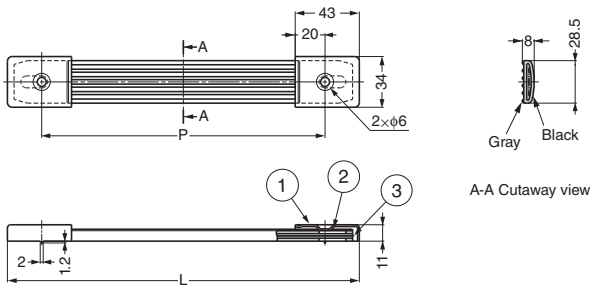
HANDLE

PS



■**Recommended Screw**

Countersunk head wood screw 5.5



No.	Part Name	Material	Finish/Colour
①	Cover	Steel	Black
②	Handle	PVC	Grey/Black
③	Reinforcing Plate	Steel	Yellow Zinc Chromate

Item Code	Item Name	L	P	Weight	Box
100-010-249	PS-190	236	190	100 g	50 pcs
100-010-250	PS-220	266	220	110 g	50 pcs

STAINLESS STEEL TRUNK HANDLE

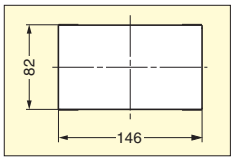
HCT-150



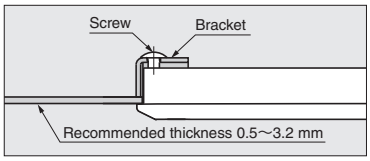
■Parts Included

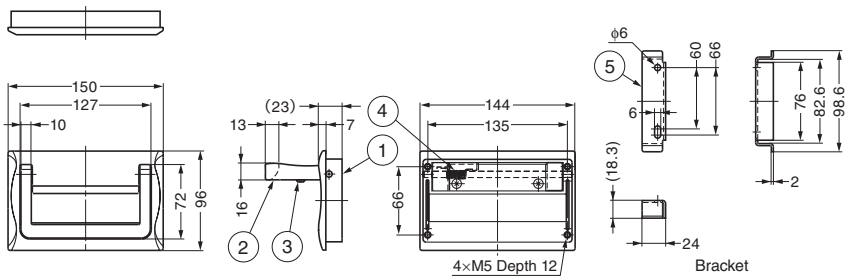
- M5x12 truss head screw (SUS)
- Bracket for sheet metal (SUS)

■Cut Out Dimensions



■Sheet Metal Mounting Application





No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SCS14)	Mirror
②	Handle	Stainless Steel (SCS14)	Mirror
③	Bumper	Ethylene Propylene Rubber (EPDM)	Black
④	Spring	Stainless Steel (SUS316)	–
⑤	Bracket for Sheet Metal	Stainless Steel (SUS316)	Mirror

※SCS14 is equivalent of SUS316.

Item Code	Item Name	Load Capacity		Weight	Box	Carton
100-017-557	HCT-150	980 N	100 kgf	990 g	5 pcs	20 pcs

TRUNK HANDLE

TMU-115

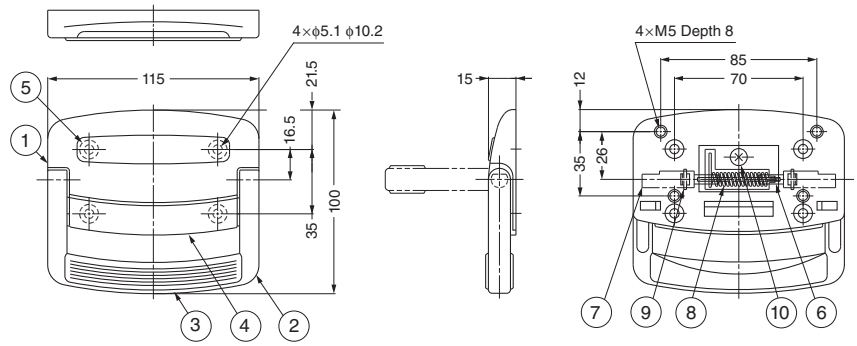


■Features

- Both back mount and surface mount is available.
- The handle retracts automatically by a spring.

■Parts Included

- For back mount: M5x6 truss head screw
- For surface mount: Countersunk head wood screw 4.8x25 and 4.8x20



No.	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy (ZDC)	Chrome
②	Handle	Zinc Alloy (ZDC)	Chrome
③	Grip	Elastomer (TPE)	Black
④	Case Cover 1	Elastomer (TPE)	Black
⑤	Case Cover 2	Elastomer (TPE)	Black
⑥	Back Cover	Steel	Yellow Zinc Chromate
⑦	Shaft	Zinc Alloy (ZDC)	Nickel
⑧	Spring	Steel	Yellow Zinc Chromate
⑨	Pivot Ring	–	5103-31
⑩	Screw	Steel	Yellow Zinc Chromate

Item Code	Item Name	Load Capacity		Weight	Box	Carton
100-901-273	TMU-115	392 N	40 kgf	460 g	10 pcs	40 pcs

TRUNK HANDLE

TEST METHOD 1 | STEEL

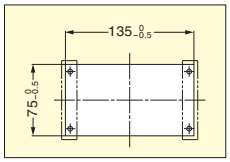
MUD-140



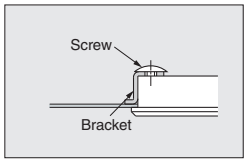
■Parts Included

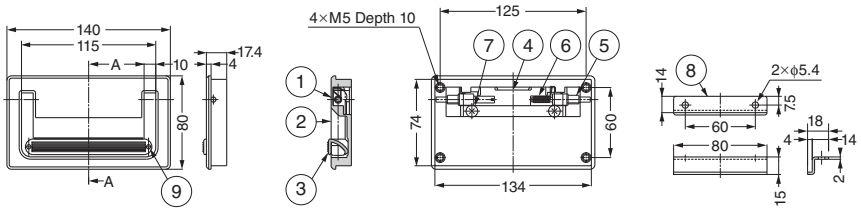
M5x8 truss head screw

■Cut Out Dimensions



■Mounting Application





No.	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy (ZDC)	Chrome
②	Handle	Zinc Alloy (ZDC)	Chrome
③	Grip	Elastomer (TPE)	Black
④	Back Cover	Steel	Yellow Zinc Chromate
⑤	Shaft	Zinc Alloy (ZDC)	Yellow Zinc Chromate
⑥	Spring	Steel	Yellow Zinc Chromate
⑦	Screw	Steel	–
⑧	Bracket	Steel	Yellow Zinc Chromate
⑨	Screw	Stainless Steel	Black

Item Code	Item Name	Load Capacity		Weight	Box	Carton
100-901-272	MUD-140	294 N	30 kgf	620 g	5 pcs	20 pcs

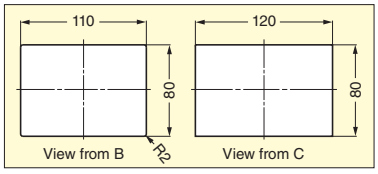
TRUNK HANDLE

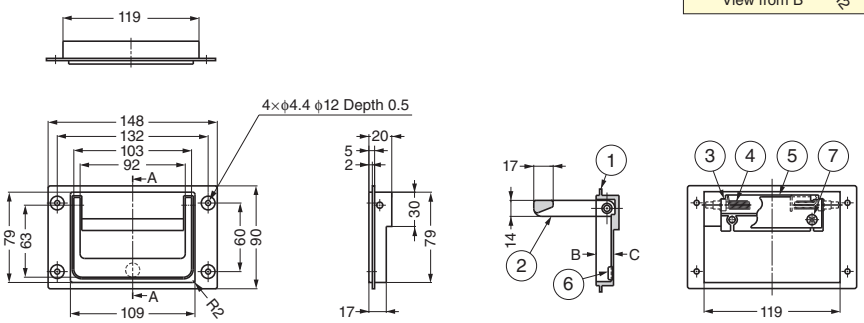
TEST METHOD 1

PT-148



■Cut Out Dimensions





No.	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy (ZDC)	Grey
②	Handle	Zinc Alloy (ZDC)	Grey
③	Shaft	Steel	Plain
④	Spring	Steel	Clear Zinc Chromate
⑤	Back Cover	Steel	Yellow Zinc Chromate
⑥	Bumper	Polyurethane (PUR)	Clear
⑦	Countersunk Head Screw	Steel	Yellow Zinc Chromate

Item Code	Item Name	Load Capacity		Weight	Box
100-019-183	PT-148	490 N	50 kgf	645 g	20 pcs



STAINLESS STEEL KNOB

ZL-1901

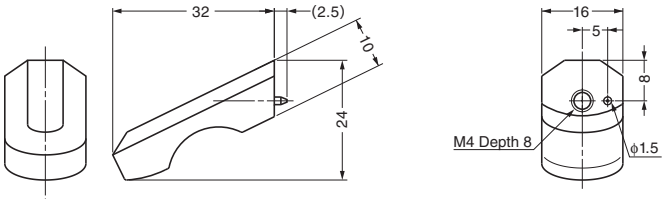


■Features

Superior finish of Mirror/Satin.

■Parts Included

M4x25 truss head screw (SUS)



Item Code	Item Name	Material	Finish	Weight	Box
100-011-010	ZL-1901	Stainless Steel (SUS316)	Zwei L Finish	34 g	8 pcs

STAINLESS STEEL KNOB

ZL-1902

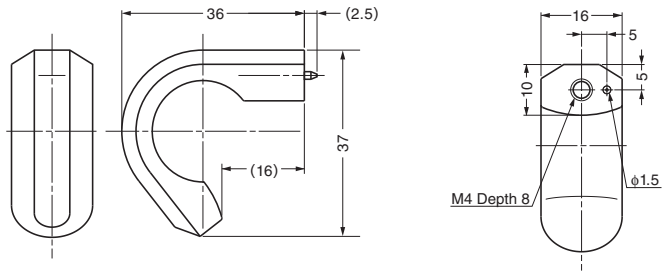


■Features

Superior finish of Mirror/Satin.

■Parts Included

M4x25 truss head screw (SUS)



Item Code	Item Name	Material	Finish	Weight	Box
100-011-011	ZL-1902	Stainless Steel (SUS316)	Zwei L Finish	52 g	8 pcs

STAINLESS STEEL KNOB

ZL-1903

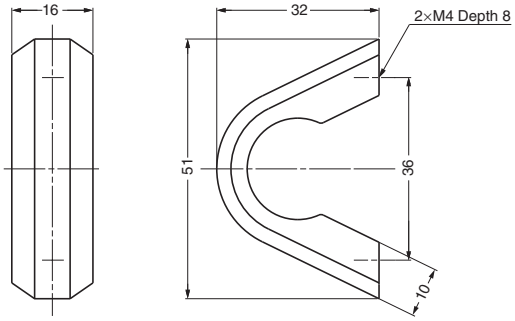


■Features

Superior finish of Mirror/Satin.

■Parts Included

M4x25 truss head screw (SUS)



Item Code	Item Name	Material	Finish	Weight	Box
100-011-012	ZL-1903	Stainless Steel (SUS316)	Zwei L Finish	58 g	8 pcs

STAINLESS STEEL KNOB

ZL-1904

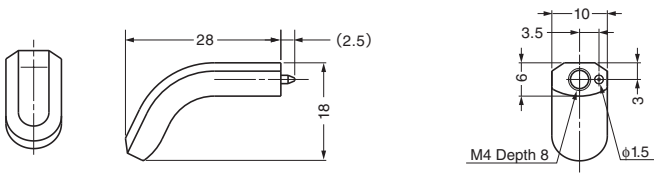


■Features

Superior finish of Mirror/Satin.

■Parts Included

M4x25 truss head screw (SUS)



Item Code	Item Name	Material	Finish	Weight	Box
100-011-013	ZL-1904	Stainless Steel (SUS316)	Zwei L Finish	12 g	8 pcs

STAINLESS STEEL KNOB

ZL-1905

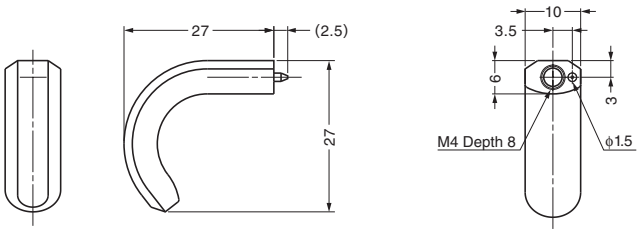


■Features

Superior finish of Mirror/Satin.

■Parts Included

Truss head screw M4×25 (SUS)



Item Code	Item Name	Material	Finish	Weight	Box
100-011-014	ZL-1905	Stainless Steel (SUS316)	Zwei L Finish	15 g	8 pcs

KNOB BASE

ZL-2302



Knob is sold separately.

■Features

- Superior finish of Mirror/Satin.
- Glass thickness : 4～ 6 mm

■Plate + Screw Set for ZL-1904 and ZL-1905 Knobs (Φ16)

Item Code	Item Name
100-010-976	ZL-2302-1916

No.	Part Name	Material	Finish/Colour	Box
①	Base Plate ϕ16	Stainless Steel (SUS316)	Zwei L Finish	1 pc
③	Gasket ϕ14	Elastomer (TPE)	Plain	2 pcs
⑤	Screw M4×16	Stainless Steel	Partially Zwei L Finish	1 pc

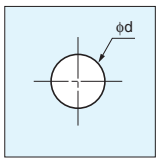
■Plate + Screw Set for ZL-1901 and ZL-1903 Knobs (Φ25)

Item Code	Item Name
100-010-977	ZL-2302-1925

No.	Part Name	Material	Finish/Colour	Box
②	Base Plate ϕ25	Stainless Steel (SUS316)	Zwei L Finish	1 pc
③	Gasket ϕ14	Elastomer (TPE)	Plain	1 pc
④	Gasket ϕ20	Elastomer (TPE)	Plain	1 pc
⑤	Screw M4×16	Stainless Steel	Partially Zwei L Finish	1 pc

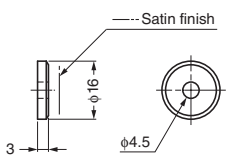
※2 sets are necessary in use for ZL-1903.

■Cut Out Dimensions

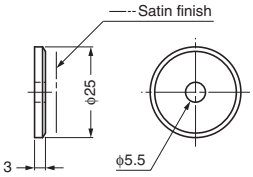


Glass thickness 4, 5 : d=5
Glass thickness 6 : d=6

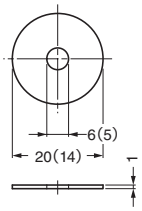
①Base plate ϕ16



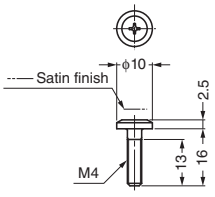
②Base plate ϕ25



③Gasket ϕ14
④Gasket ϕ20



⑤Screw M4×16



STAINLESS STEEL KNOB

ZL-2503

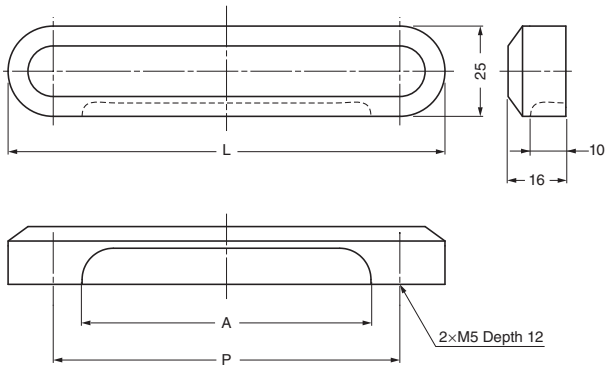


■Features

Superior finish of Mirror/Satin.

■Parts Included

Screw M5×28 (SUS)



Item Code	Item Name	Material	Finish	L	P	A	Weight	Box
100-010-975	ZL-2503- 96	Stainless Steel (SUS316)	Zwei L Finish	121	96	84	334 g	4 pcs
100-010-974	ZL-2503-160	Stainless Steel (SUS316)	Zwei L Finish	185	160	148	496 g	2 pcs

STAINLESS STEEL KNOB

ZL-1910

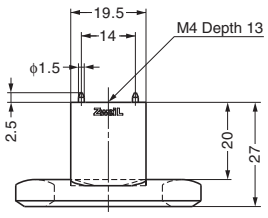


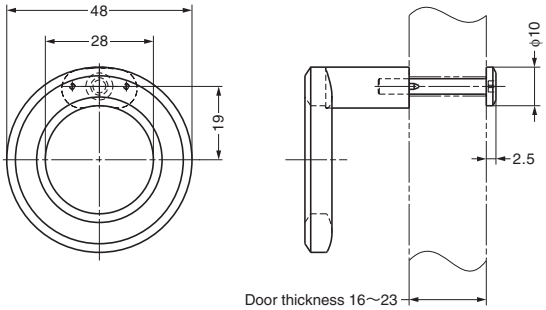
■Features

Superior finish of Mirror/Satin.

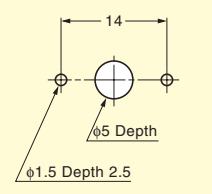
■Parts Included

Truss head screw M4×28 (SUS)





■Cut Out Dimensions



Item Code	Item Name	Material	Finish	Weight	Box
100-024-596	ZL-1910	Stainless Steel (SUS316)	Zwei L Finish	85 g	1 pc

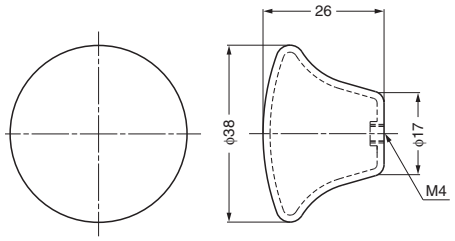
STAINLESS STEEL KNOB

RS-38S



■Parts Included

Truss head screw M4×30 (SUS)



Item Code	Item Name	Material	Finish	Weight	Box	Carton
100-011-198	RS-38S	Stainless Steel (SUS304)	Satin	20 g	20 pcs	200 pcs

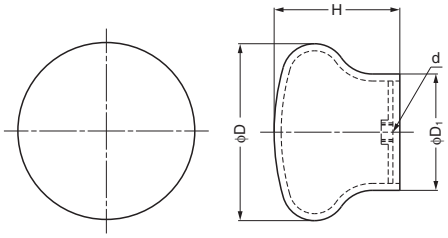
STAINLESS STEEL KNOB

RSS



■Parts Included

Truss head screw (SUS)

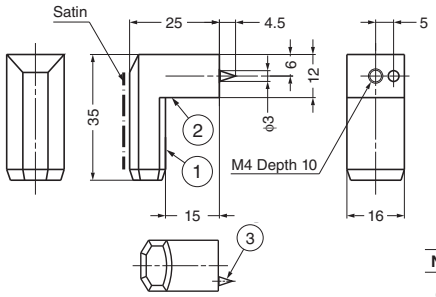


Item Code	Item Name	Material	Finish	H	D	D_1	d	Screw	Weight	Box	Carton
100-011-194	RSS-25S	Stainless Steel (SUS304)	Satin	22	25	18	M4	M4×30	8.5 g	20 pcs	200 pcs
100-011-190	RSS-25M	Stainless Steel (SUS304)	Mirror	22	25	18	M4	M4×30	8.5 g	20 pcs	200 pcs
100-011-195	RSS-30S	Stainless Steel (SUS304)	Satin	23	30	20	M4	M4×30	11 g	20 pcs	200 pcs
100-011-191	RSS-30M	Stainless Steel (SUS304)	Mirror	23	30	20	M4	M4×30	11 g	20 pcs	200 pcs
100-011-196	RSS-38S	Stainless Steel (SUS304)	Satin	27	38	25	M5	M5×30	16 g	20 pcs	200 pcs
100-011-192	RSS-38M	Stainless Steel (SUS304)	Mirror	27	38	25	M5	M5×30	16 g	20 pcs	200 pcs
100-011-197	RSS-50S	Stainless Steel (SUS304)	Satin	34	50	35	M5	M5×30	30 g	20 pcs	200 pcs
100-011-193	RSS-50M	Stainless Steel (SUS304)	Mirror	34	50	35	M5	M5×30	30 g	20 pcs	200 pcs

STAINLESS STEEL KNOB

CU-L-35





■Features

Combination of hairline and mirror polished finish.

■Parts Included

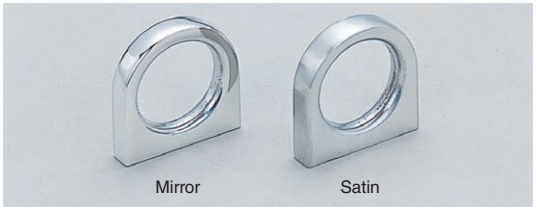
Truss head screw M4×25 (SUS)

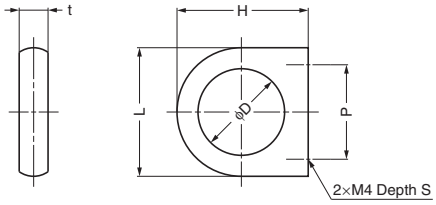
No.	Part Name	Material	Finish
①	Body 1	Stainless Steel (SUS303)	Mirror and Satin Combination
②	Body 2	Stainless Steel (SUS304)	Mirror
③	Pin	Stainless Steel (SUS303)	Mirror

Item Code	Item Name	Weight	Box
100-012-824	CU-L-35	60 g	10 pcs

STAINLESS STEEL PULL

SD





■Parts Included

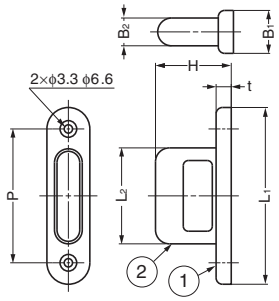
Truss head screw M4×25 (SUS)

Item Code	Item Name	Material	Finish	L	H	t	D	P	S	Weight	Box	Carton
100-015-022	SD-24S	Stainless Steel (SCS13)	Satin	24.5	25	5.5	16.5	18	5	10 g	80 pcs	800 pcs
100-015-023	SD-24M	Stainless Steel (SCS13)	Mirror	24.5	25	5.5	16.5	18	5	10 g	80 pcs	800 pcs
100-015-020	SD-30S	Stainless Steel (SCS13)	Satin	30.5	31.5	6.5	20.5	21	6	22 g	50 pcs	500 pcs
100-015-021	SD-30M	Stainless Steel (SCS13)	Mirror	30.5	31.5	6.5	20.5	21	6	22 g	50 pcs	500 pcs

STAINLESS STEEL PULL

HS





■Parts Included

Countersunk head wood screw 3.1×20 (SUS)

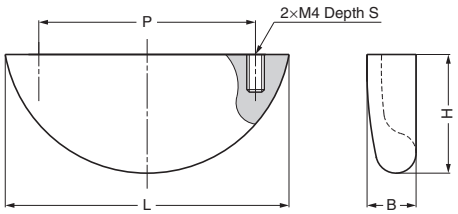
No.	Material	Finish/Colour
①	Stainless Steel (SUS304)	Satin
②	Elastomer (TPE)	Black

Item Code	Item Name	L_1	L_2	P	B_1	B_2	H	t	Weight	Box	Carton
100-012-192	HS-60S	60	30	44	16	9	25	5	13 g	40 pcs	400 pcs
100-012-193	HS-70S	70	38	53	17	11	30	6	20 g	30 pcs	300 pcs

STAINLESS STEEL PULL

RD





■Parts Included

Truss head screw M4×25 (SUS)

Item Code	Item Name	Material	Finish	L	H	B	P	S	Weight	Box	Carton
100-901-049	RD-55SM	Stainless Steel (SCS14)	Mirror	55	23	9.5	42	8	50 g	30 pcs	360 pcs
100-901-050	RD-90SM	Stainless Steel (SCS14)	Mirror	90	25.5	10.5	74	10	80 g	20 pcs	240 pcs

※SCS14 is equivalent of SUS316.

KNOB

STEEL

KK-T

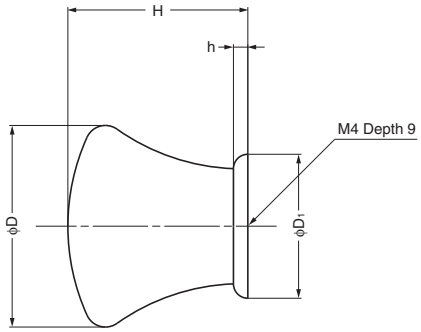


■**Features**

With antibacterial coating.

■**Parts Included**

Truss head screw M4×30



Item Code	Item Name	Material	Finish	D	D_1	H	h	Weight	Box	Carton
100-012-905	KK-T24SNI	Aluminium Alloy	Nickel + Antibacterial Coating	24	16	23	1.5	10 g	25 pcs	200 pcs
100-012-906	KK-T24SSG	Aluminium Alloy	Satin Gold + Antibacterial Coating	24	16	23	1.5	10 g	25 pcs	200 pcs
100-012-907	KK-T24SBR	Aluminium Alloy	Brown + Antibacterial Coating	24	16	23	1.5	10 g	25 pcs	200 pcs
100-029-090	※KK-T24BL	Aluminium Alloy	Paint/Black	24	16	23	1.5	10 g	25 pcs	200 pcs
100-012-908	KK-T28SNI	Aluminium Alloy	Nickel + Antibacterial Coating	28	20	26	2	20 g	25 pcs	200 pcs
100-012-909	KK-T28SSG	Aluminium Alloy	Satin Gold + Antibacterial Coating	28	20	26	2	20 g	25 pcs	200 pcs
100-012-910	KK-T28SBR	Aluminium Alloy	Brown + Antibacterial Coating	28	20	26	2	20 g	25 pcs	200 pcs
100-029-091	※KK-T28BL	Aluminium Alloy	Paint/Black	28	20	26	2	20 g	25 pcs	200 pcs

※Without antibacterial coating.

KNOB

STEEL

KK-B

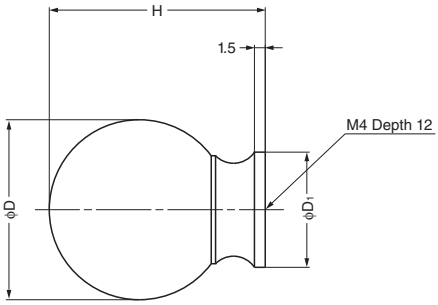


■**Features**

With antibacterial coating.

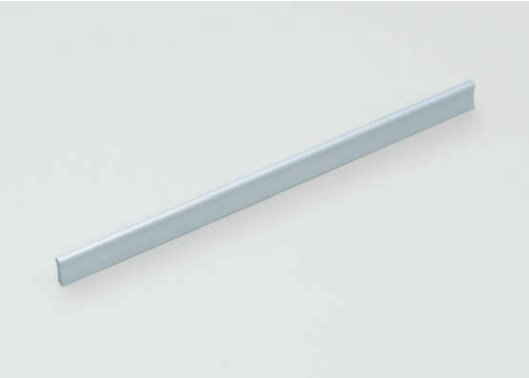
■**Parts Included**

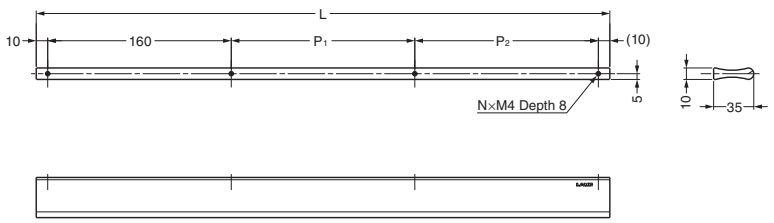
Truss head screw M4×30



Item Code	Item Name	Material	Finish	D	D_1	H	Weight	Box	Carton
100-012-881	KK-B20SNI	Aluminium Alloy	Nickel + Antibacterial Coating	20	13	26	10 g	25 pcs	200 pcs
100-012-882	KK-B20SSG	Aluminium Alloy	Satin Gold + Antibacterial Coating	20	13	26	10 g	25 pcs	200 pcs
100-012-883	KK-B20SBR	Aluminium Alloy	Brown + Antibacterial Coating	20	13	26	10 g	25 pcs	200 pcs
100-012-884	KK-B25SNI	Aluminium Alloy	Nickel + Antibacterial Coating	25	16	30	25 g	25 pcs	200 pcs
100-012-885	KK-B25SSG	Aluminium Alloy	Satin Gold + Antibacterial Coating	25	16	30	25 g	25 pcs	200 pcs
100-012-886	KK-B25SBR	Aluminium Alloy	Brown + Antibacterial Coating	25	16	30	25 g	25 pcs	200 pcs

PULL AOT35

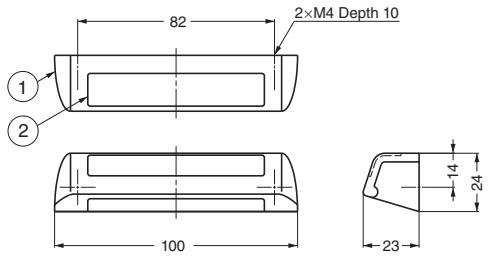




Item Code	Item Name	Material	Finish	L	P1	P2	N	Weight	Box
100-012-523	AOT35-180	Aluminium Alloy	Anodized	180	–	–	2	129 g	100
100-012-524	AOT35-340	Aluminium Alloy	Anodized	340	160	–	3	243 g	50
100-012-525	AOT35-500	Aluminium Alloy	Anodized	500	160	160	4	358 g	30

PULL GF-100





Item Code	Item Name	Weight	Box	Carton
100-010-273	GF-100	21 g	80 pcs	480 pcs

No.	Material	Finish/Colour
①	ABS	Black
②	Aluminium Sheet	Satin

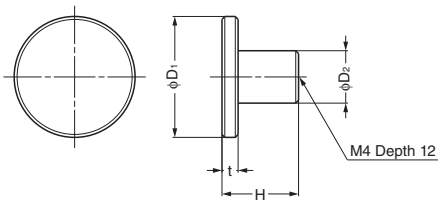
KNOB EXSEL

STEEL

■Parts Included

Truss head screw M4×25



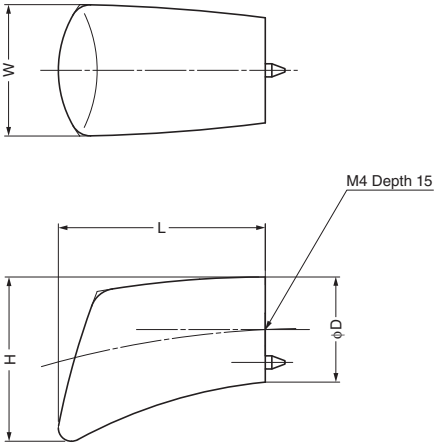


Item Code	Item Name	Material	Finish	D1	D2	H	t	Weight	Box	Carton
100-012-080	EXSEL20	Aluminium Alloy	Stainless Anodized	20	10	18	4	5 g	48 pcs	1152 pcs
100-012-081	EXSEL25	Aluminium Alloy	Stainless Anodized	25	11	18.5	4.5	8.5 g	48 pcs	1152 pcs
100-012-082	EXSEL30	Aluminium Alloy	Stainless Anodized	30	12	19	5	15 g	48 pcs	1152 pcs
100-012-083	EXSEL35	Aluminium Alloy	Stainless Anodized	35	13	19	5	16.5 g	24 pcs	576 pcs

KNOB

TMT





■Parts Included

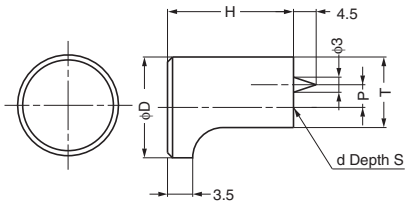
Truss head screw M4×30 (SUS)

Item Code	Item Name	Material	Finish	W	L	H	D	Weight	Box	Carton
100-010-730	TMT-16	Brass	24K Gold Plating	16	25	20	12.5	31 g	1 pc	10 pcs
100-010-731	TMT-20	Brass	24K Gold Plating	20	31.5	25	16	64 g	1 pc	10 pcs

KNOB

GLA





■Parts Included

●GLA-12：

Truss head screw M3×25

●GLA-16, GLA-20：

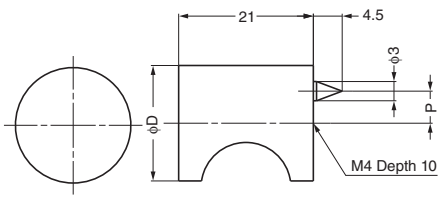
Truss head screw M4×25

Item Code	Item Name	Material	Finish	D	H	T	P	d	S	Weight	Box	Carton
100-010-718	GLA-12	Brass	Satin Nickel	12	18	8.5	3.5	M3	8	14 g	50 pcs	500 pcs
100-012-323	GLA-16	Brass	Satin Nickel	16	22	11	4	M4	10	29 g	40 pcs	400 pcs
100-010-720	GLA-20	Brass	Satin Nickel	20	25	14	4.5	M4	10	52 g	40 pcs	400 pcs

KNOB

MRB





■Parts Included

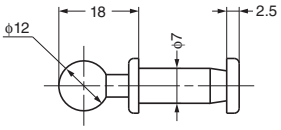
Truss head screw M4×25

Item Code	Item Name	Material	Finish	D	P	Weight	Box	Carton
100-010-721	MRB-18	Brass	Satin Nickel	18	5	38 g	30 pcs	300 pcs
100-010-722	MRB-24	Brass	Satin Nickel	24	5.5	70 g	30 pcs	300 pcs

KNOB

MBT-12

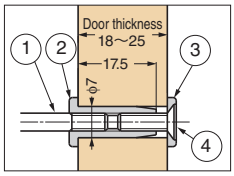




■Parts Included

Countersunk head screw M4×5

■Cut Out Dimensions



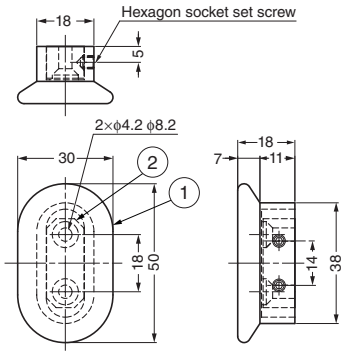
No.	Part Name	Material	Finish
①	Knob	Brass	Satin Nickel
②	Sleeve	Brass	Satin Nickel
③	Washer	Brass	Nickel
④	Screw	Steel	Nickel

Item Code	Item Name	Weight	Box	Carton
100-012-277	MBT-12WB	20 g	30 pcs	300 pcs

KNOB

DW-50N





■Features

Includes insert block and set screw for surface mounting.

■Parts Included

Countersunk head screw M4×20 (SUS)

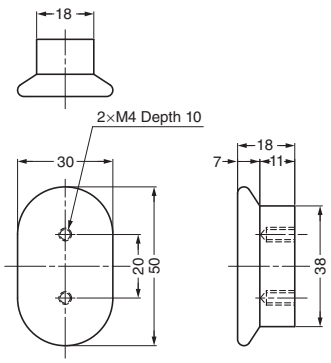
No.	Part Name	Finish
①	Body	Satin Chrome
②	Base	Plain

Item Code	Item Name	Material	Weight	Box
100-010-005	DW-50N	Brass	130 g	20 pcs

KNOB

DW-50





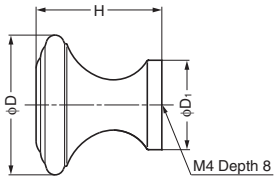
Item Code	Item Name	Material	Finish	Weight	Box
100-017-633	DW-50	Brass	Satin Chrome	130 g	20 pcs

KNOB

STEEL **KHE103**



■Parts Included
Truss head screw M4×30



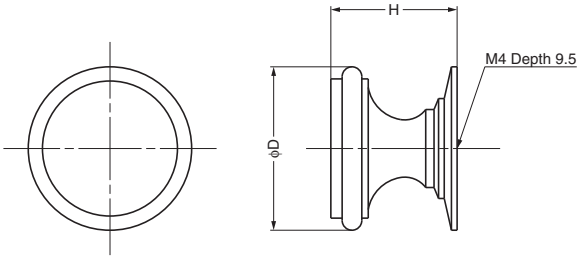
Item Code	Item Name	Material	Finish	D	D_1	H	Weight	Box
100-012-618	KHE103-25PB	Brass	Mirror, Clear	25	16	22.5	34 g	20 pcs
100-015-018	KHE103-32PB	Brass	Mirror, Clear	31	19	22.5	55 g	20 pcs

KNOB

STEEL **SY**



■Parts Included
Truss head screw M4×25



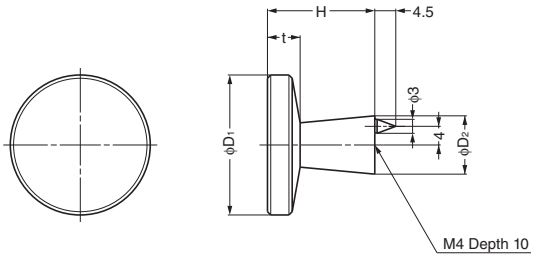
Item Code	Item Name	Material	Finish	D	H	Weight	Box	Carton
100-012-032	SY-16WB	Brass	Satin Nickel	16	15	10 g	40 pcs	400 pcs
100-012-030	SY-16M	Brass	Mirror	16	15	10 g	40 pcs	400 pcs
100-010-238	SY-22WB	Brass	Satin Nickel	22	17	21 g	30 pcs	300 pcs
100-017-634	SY-22M	Brass	Mirror	22	17	21 g	30 pcs	300 pcs

KNOB

STEEL **TS**



■Parts Included
Truss head screw M4×25



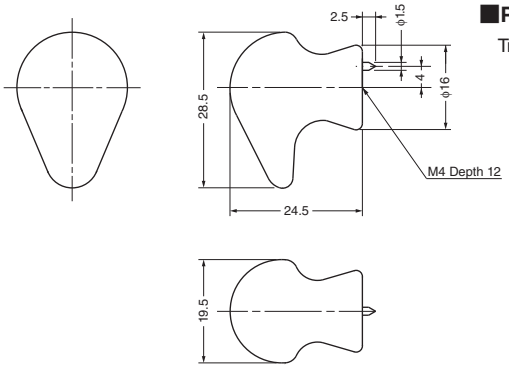
Item Code	Item Name	Material	Finish	D_1	D_2	H	t	Weight	Box	Carton
100-010-001	TS-25	Brass	Satin Nickel	25	14.5	23	6.7	36 g	50 pcs	200 pcs
100-013-119	TS-30	Brass	Satin Nickel	30	14.5	23	6.7	47 g	50 pcs	200 pcs
100-010-002	TS-36	Brass	Satin Nickel	36	15	24	7.5	70 g	30 pcs	120 pcs

KNOB

STEEL

B046





■Parts Included

Truss head screw M4×28

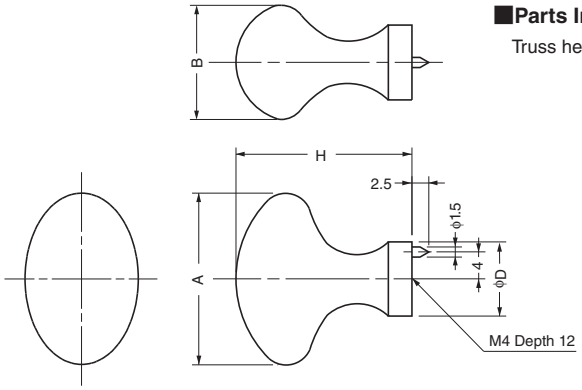
Item Code	Item Name	Material	Finish	Weight	Box	Carton
100-012-760	B046-30PB	Brass	Brass	45 g	20 pcs	200 pcs
100-012-761	B046-30CR	Brass	Chrome	45 g	20 pcs	200 pcs
100-012-762	B046-30BN	Brass	Black Nickel	45 g	20 pcs	200 pcs
100-012-763	B046-30SN	Brass	Nickel	45 g	20 pcs	200 pcs
100-012-764	B046-30SG	Brass	Satin Gold	45 g	20 pcs	200 pcs

KNOB

STEEL

B671





■Parts Included

Truss head screw M4×28

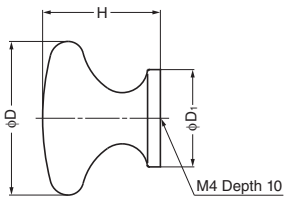
Item Code	Item Name	Material	Finish	A	B	H	D	Weight	Box	Carton
100-012-767	B671-25PB	Brass	Brass	25.5	16.8	26.1	11	30 g	40 pcs	400 pcs
100-012-768	B671-25CR	Brass	Chrome	25.5	16.8	26.1	11	30 g	40 pcs	400 pcs
100-012-770	B671-30PB	Brass	Brass	30.8	19.9	32.5	14	62 g	20 pcs	200 pcs
100-012-771	B671-30CR	Brass	Chrome	30.8	19.9	32.5	14	62 g	20 pcs	200 pcs

KNOB

STEEL

KHE102





■Parts Included

Truss head screw M4×30

Item Code	Item Name	Material	Finish	D	D_1	H	Weight	Box
100-012-621	KHE102-30PB	Brass	Mirror, Clear	30	19	23	63 g	20 pcs
100-012-741	KHE102-35PB	Brass	Mirror, Clear	35	22	25	84 g	20 pcs

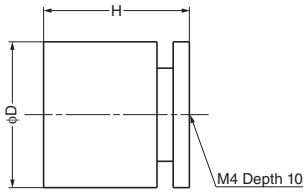
KNOB

STEEL

KHE107



■Parts Included
Truss head screw M4×30



Item Code	Item Name	Material	Finish	D	H	Weight	Box
100-012-619	KHE107-18PB	Brass	Mirror, Clear	18	18	34 g	20 pcs
100-016-318	KHE107-25PB	Brass	Mirror, Clear	25	25	96 g	20 pcs

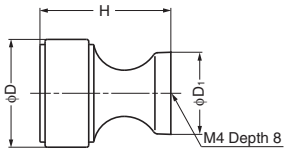
KNOB

STEEL

KHE111



■Parts Included
Truss head screw M4×30



Item Code	Item Name	Material	Finish	D	D_1	H	Weight	Box
100-016-319	KHE111-16PB	Brass	Mirror, Clear	16	12	18.5	17 g	20 pcs
100-012-740	KHE111-22PB	Brass	Mirror, Clear	21	16	25.5	43 g	20 pcs

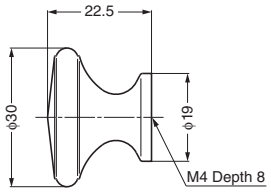
KNOB

STEEL

KHE101



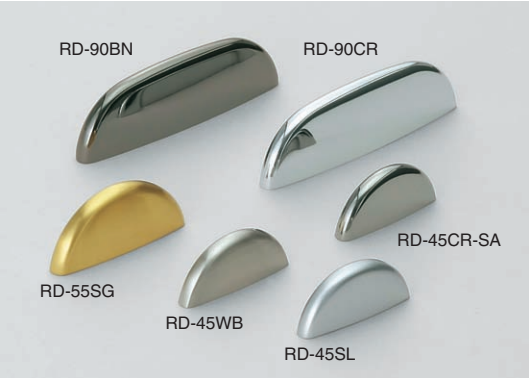
■Parts Included
Truss head screw M4×30

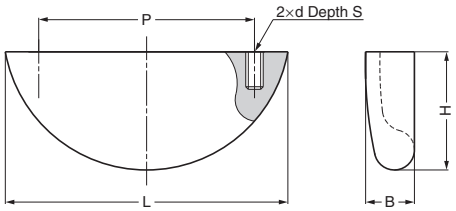


Item Code	Item Name	Material	Finish	Weight	Box
100-015-019	KHE101-30PB	Brass	Mirror, Clear	54 g	20 pcs

PULL

RD





■Parts Included

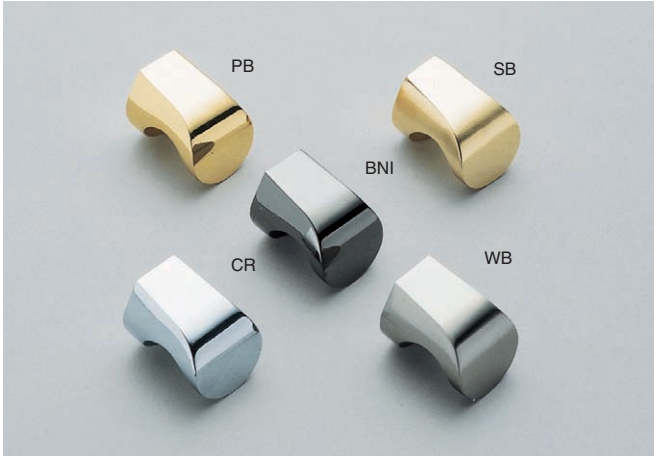
Truss head screw

※Screws not included with RD-45CR-SA.

Item Code	Item Name	Material	Finish	L	P	H	B	d	S	Screw	Weight	Box	Carton
100-012-331	RD-45CR	Zinc Alloy (ZDC)	Chrome	45	32	19	8.2	M3	7	M3×28	22 g	40 pcs	480 pcs
100-012-333	RD-45WB	Zinc Alloy (ZDC)	Satin Nickel	45	32	19	8.2	M3	7	M3×28	22 g	40 pcs	480 pcs
100-012-330	RD-45BN	Zinc Alloy (ZDC)	Black Nickel	45	32	19	8.2	M3	7	M3×28	22 g	40 pcs	480 pcs
100-012-332	RD-45SG	Zinc Alloy (ZDC)	Gold	45	32	19	8.2	M3	7	M3×28	22 g	40 pcs	480 pcs
100-012-387	RD-45SL	Zinc Alloy (ZDC)	Paint/Silver	45	32	19	8.2	M3	7	M3×28	22 g	40 pcs	480 pcs
100-019-401	RD-45CR-SA	Zinc Alloy (ZDC)	Chrome	45	32	19	8.2	M3	7	Not Included	22 g	100 pcs	400 pcs
100-012-335	RD-55CR	Zinc Alloy (ZDC)	Chrome	55	42	23	9.5	M4	8	M4×28	35 g	30 pcs	360 pcs
100-012-337	RD-55WB	Zinc Alloy (ZDC)	Satin Nickel	55	42	23	9.5	M4	8	M4×28	35 g	30 pcs	360 pcs
100-012-334	RD-55BN	Zinc Alloy (ZDC)	Black Nickel	55	42	23	9.5	M4	8	M4×28	35 g	30 pcs	360 pcs
100-012-336	RD-55SG	Zinc Alloy (ZDC)	Gold	55	42	23	9.5	M4	8	M4×28	35 g	30 pcs	360 pcs
100-012-162	RD-90CR	Zinc Alloy (ZDC)	Chrome	90	74	25.5	10.5	M4	9.5	M4×28	63 g	20 pcs	240 pcs
100-012-341	RD-90WB	Zinc Alloy (ZDC)	Satin Nickel	90	74	25.5	10.5	M4	9.5	M4×28	63 g	20 pcs	240 pcs
100-012-338	RD-90BN	Zinc Alloy (ZDC)	Black Nickel	90	74	25.5	10.5	M4	9.5	M4×28	63 g	20 pcs	240 pcs
100-012-340	RD-90SG	Zinc Alloy (ZDC)	Gold	90	74	25.5	10.5	M4	9.5	M4×28	63 g	20 pcs	240 pcs

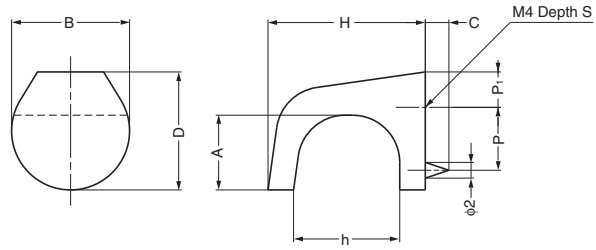
KNOB

MKZ



■Parts Included

Truss head screw M4×25



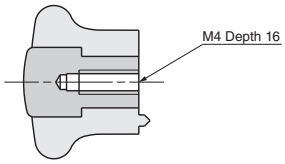
Item Code	Item Name	Material	Finish	D	A	B	C	H	h	P	P_1	S	Weight	Box	Carton
100-018-042	MKZ-15PB	Zinc Alloy (ZDC)	Brass/Clear	16	8	15	2	20	13.5	8	5.5	6	11 g	50 pcs	500 pcs
100-018-043	MKZ-15CR	Zinc Alloy (ZDC)	Chrome	16	8	15	2	20	13.5	8	5.5	6	11 g	50 pcs	500 pcs
100-018-044	MKZ-15BNI	Zinc Alloy (ZDC)	Black Nickel	16	8	15	2	20	13.5	8	5.5	6	11 g	50 pcs	500 pcs
100-018-045	MKZ-15WB	Zinc Alloy (ZDC)	Satin Nickel	16	8	15	2	20	13.5	8	5.5	6	11 g	50 pcs	500 pcs
100-018-046	MKZ-15SB	Zinc Alloy (ZDC)	Satin Gold	16	8	15	2	20	13.5	8	5.5	6	11 g	50 pcs	500 pcs
100-018-047	MKZ-21PB	Zinc Alloy (ZDC)	Brass/Clear	21	12.5	20	3	26	17	12	4.5	7	29 g	50 pcs	500 pcs
100-018-048	MKZ-21CR	Zinc Alloy (ZDC)	Chrome	21	12.5	20	3	26	17	12	4.5	7	29 g	50 pcs	500 pcs
100-018-049	MKZ-21BNI	Zinc Alloy (ZDC)	Black Nickel	21	12.5	20	3	26	17	12	4.5	7	29 g	50 pcs	500 pcs
100-018-050	MKZ-21WB	Zinc Alloy (ZDC)	Satin Nickel	21	12.5	20	3	26	17	12	4.5	7	29 g	50 pcs	500 pcs
100-018-051	MKZ-21SB	Zinc Alloy (ZDC)	Satin Gold	21	12.5	20	3	26	17	12	4.5	7	29 g	50 pcs	500 pcs

KNOB

STEEL

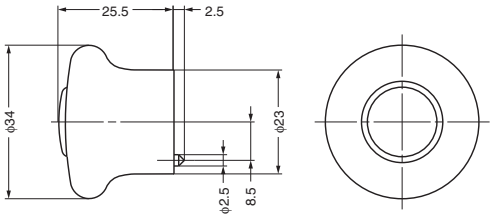
KM-130





■Parts Included

Truss head screw M4×30



Item Code	Item Name	Material	Finish	Weight	Box	Carton
100-051-509	KM130SN/SN	Zinc Alloy (ZDC)	Satin Nickel/Clear	117 g	30 pcs	120 pcs
100-051-508	KM130SG/SG	Zinc Alloy (ZDC)	Satin Gold/Clear	117 g	30 pcs	120 pcs

KNOB

STEEL

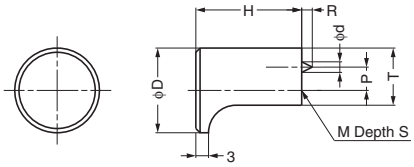
SGL



■Parts Included

●SGL-12 : Truss head screw M3×28

●SGL-16 : Truss head screw M4×28



Item Code	Item Name	Material	Finish	D	H	T	P	d	R	M	S	Weight	Box	Carton
100-012-016	SGL-12	ABS	Satin Chrome	12	18	8.5	3	2	2	M3	9.5	1 g	60 pcs	1,800 pcs
100-012-017	SGL-16	ABS	Satin Chrome	16	22	11	4	2	2.5	M4	13.5	2 g	40 pcs	1,200 pcs
100-012-018	SGL-20	ABS	Satin Chrome	20	25	13.5	5	2.5	2.5	M4	15.5	3.5 g	30 pcs	900 pcs

KNOB

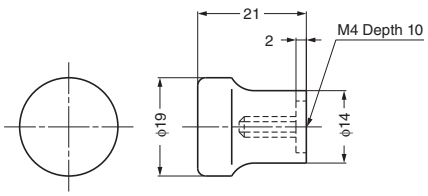
STEEL

GD-20



■Parts Included

Truss head screw M4×25

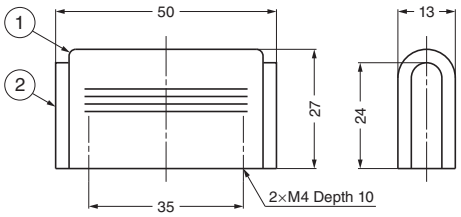


Item Code	Item Name	Material	Colour	Weight	Box	Carton
100-012-074	GD-20	ABS	Black	5 g	50 pcs	500 pcs

KNOB

STEEL **FS-04-S**





■Parts Included

Truss head screw M4×25

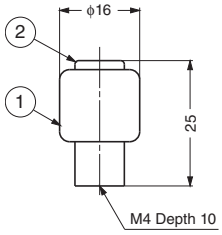
No.	Material	Colour
①	Elastomer (TPE)	Black
②	Aluminium Alloy	Anodized Silver + Satin

Item Code	Item Name	Weight	Box	Carton
100-012-173	FS-04-S	28 g	30 pcs	360 pcs

KNOB

STEEL **FS-06-S**





■Parts Included

Truss head screw M4×25

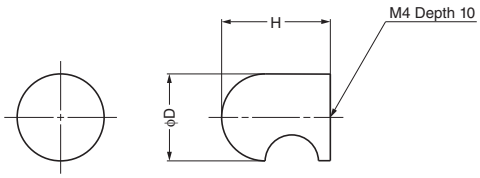
No.	Material	Colour
①	Elastomer (TPE)	Black
②	Aluminium Alloy	Anodized Silver + Satin

Item Code	Item Name	Weight	Box	Carton
100-012-175	FS-06-S	6 g	30 pcs	300 pcs

KNOB

STEEL **UIB**





■Parts Included

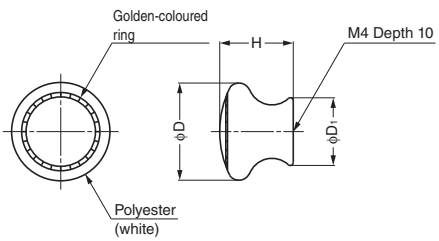
Truss head screw M4×28

Item Code	Item Name	Material	D	H	Weight	Box	Carton
100-012-410	UIB-16	Polyester	16	24	5.5 g	30 pcs	300 pcs
100-012-411	UIB-20	Polyester	20	30	10 g	25 pcs	250 pcs

KNOB

STEEL **UIA**





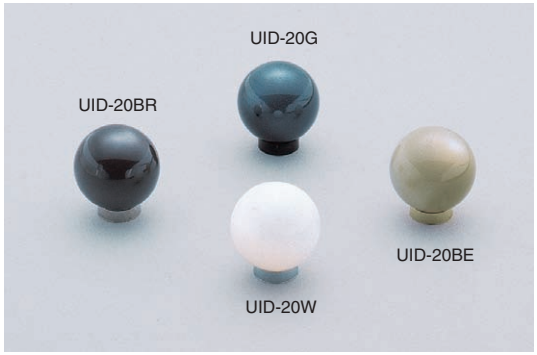
■Parts Included

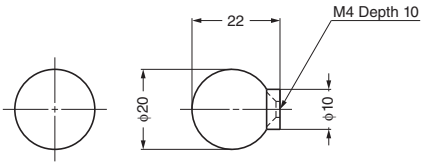
Truss head screw M4×28

Item Code	Item Name	Material	D	D_1	H	Weight	Box	Carton
100-012-400	UIA-20	Polyester	25	18	22	6.5 g	25 pcs	250 pcs
100-012-401	UIA-26	Polyester	33	23	25	14.5 g	15 pcs	150 pcs
100-012-402	UIA-30	Polyester	38	25	28	20 g	10 pcs	100 pcs

KNOB

UID





■Parts Included

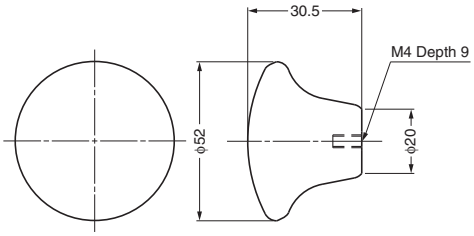
Truss head screw M4×28

Item Code	Item Name	Material		Finish/Colour		Weight	Box	Carton
		Body	Base	Body	Base			
100-012-430	UID-20W	Polyester	Brass	White	Chrome	7 g	30 pcs	300 pcs
100-012-432	UID-20BE	Polyester	Brass	Umber	Gold	7 g	30 pcs	300 pcs
100-012-431	UID-20G	Polyester	Brass	Grey	Black Chrome	7 g	30 pcs	300 pcs
100-012-433	UID-20BR	Polyester	Brass	Brown	Nickel	7 g	30 pcs	300 pcs

KNOB

215F





■Parts Included

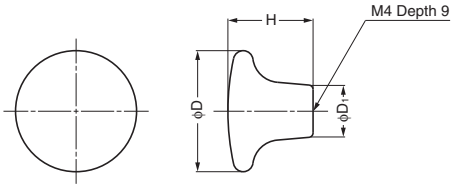
Truss head screw M4×25

Item Code	Item Name	Material	Colour	Weight	Box	Carton
100-017-649	215F	Ceramic	White	55 g	20 pcs	80 pcs

KNOB

231F, 232F, 217F





■Parts Included

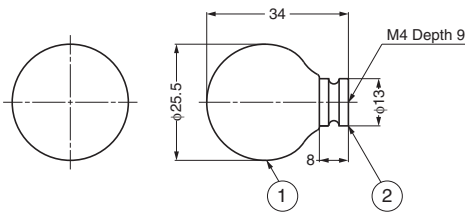
Truss head screw M4×25

Item Code	Item Name	Material	Colour	D	D_1	H	Weight	Box	Carton
100-012-098	231F	Ceramic	White	26	16	19	12 g	50 pcs	200 pcs
100-012-099	232F	Ceramic	White	32	15.5	23	17 g	50 pcs	200 pcs
100-012-095	217F	Ceramic	White	39	17.5	26	26 g	50 pcs	200 pcs

KNOB

229F





■Parts Included

Truss head screw M4×35

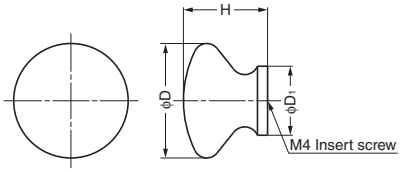
No.	Material	Finish/Colour
①	Ceramic	White
②	Brass	Plain

Item Code	Item Name	Weight	Box	Carton
100-012-097	229F	23 g	50 pcs	200 pcs

KNOB

STEEL **SMT**





■**Features**

Order-made finish available at surcharge.

■**Parts Included**

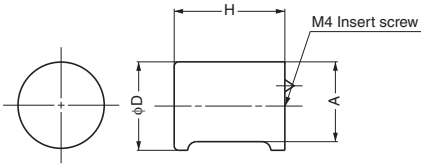
Truss head screw M4×25

Item Code	Item Name	Material	Finish	D	D_1	H	Weight	Box
100-012-001	SMT24	Wood	Plain	24.5	15	19	5 g	200 pcs
100-012-010	SMT34	Wood	Plain	34	20.5	25	10 g	80 pcs
100-012-011	SMT38	Wood	Plain	39.5	22	29.5	15 g	50 pcs
100-012-004	SMT45	Wood	Plain	45	26	33	18 g	25 pcs

KNOB

STEEL **SMRB**





■**Features**

Order-made finish available at surcharge.

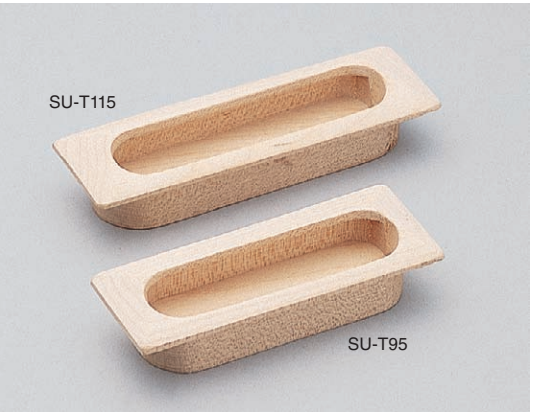
■**Parts Included**

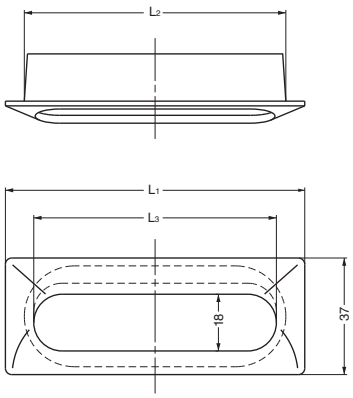
Truss head screw M4×25

Item Code	Item Name	Material	Finish	D	H	A	Weight	Box
100-012-006	SMRB16	Wood	Plain	16	22	13.5	5 g	250 pcs
100-012-007	SMRB20	Wood	Plain	20	25	16.5	7 g	150 pcs
100-012-008	SMRB24	Wood	Plain	24	29	19.5	9 g	100 pcs

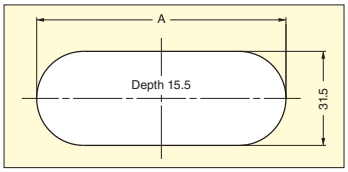
RECESSED PULL

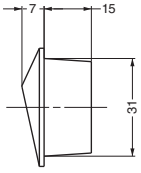
SU-T





■**Cut Out Dimensions**





Item Code	Item Name	Material	Finish	L_1	L_2	L_3	A	Weight	Box	Carton
100-012-878	SU- T75	Wood	Plain	75	63	58	63.5	14 g	25 pcs	250 pcs
100-012-879	SU- T95	Wood	Plain	95	83	77	83.5	17 g	20 pcs	200 pcs
100-012-880	SU-T115	Wood	Plain	115	103	95	103.5	24 g	15 pcs	150 pcs



STAINLESS STEEL PUSH KNOB

ZL-1908



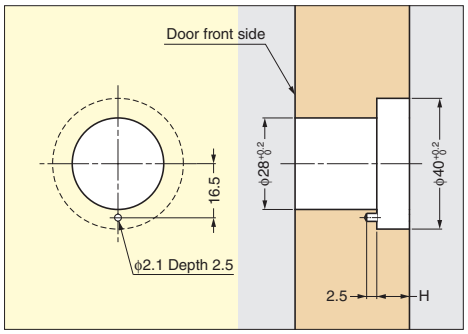
■Features

- Knob can be pushed in when not in use.
- Superior finish of Mirror/Satin.

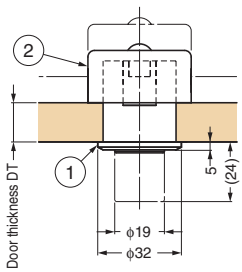
■Parts Included

Truss head screw M3×25 (SUS)

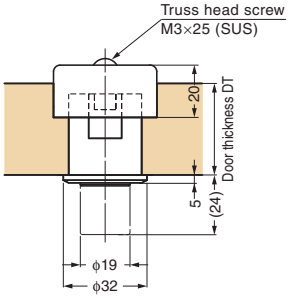
■Cut Out Dimensions



■Door Thickness 13-23 mm



■Door Thickness 24-33 mm



No.	Part Name	Material	Finish/Colour
①	Knob Body	Stainless Steel (SUS316)	Zwei L Finish
②	Knob Cap	ABS	Black

Item Code	Item Name	Door Thickness (DT)	Bore Depth H	Weight	Box
100-011-033	ZL-1908	13～33	DT 13～23：H＝None (ϕ28 Hole), DT 24～33：H＝DT-23	134 g	1 pc

PUSH KNOB

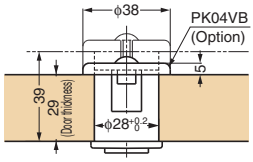
STEEL **PK03**





BN CR GA PK04VB (Option)

Part Name	Material
Push Knob	Zinc Alloy (ZDC)
Latch Body	ABS
Cap	ABS



■Features

- Knob can be pushed in when not in use.
- Able to install to door thickness 15-35 mm with cap included, 29-39 mm with PK04VB (option).

■Remarks

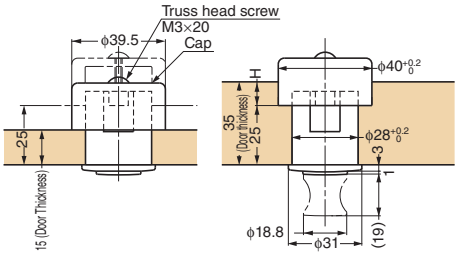
Install with bracket when applied to sheet metal.

■Parts Included

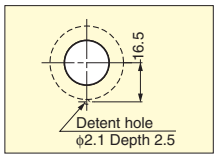
Truss head screw M3×20 (SUS)

■Option

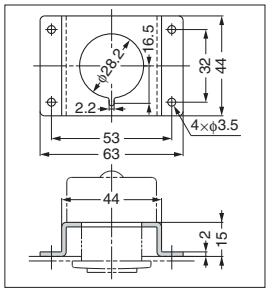
Cap for thick door (PK04VB)



■Cut Out Dimensions



■Bracket for Sheet Metal



■Body

Item Code	Item Name	Finish	Door Thickness (DT)	Bore Depth H	Weight	Box	Carton
100-019-954	PK03GA	Gold	15～35	DT 15～25：H = None (ϕ28 Hole), DT 26～35：H = DT-25	67 g	20 pcs	200 pcs
100-019-956	PK03CR	Chrome	15～35	DT 15～25：H = None (ϕ28 Hole), DT 26～35：H = DT-25	67 g	20 pcs	200 pcs
100-019-955	PK03BN	Black Nickel	15～35	DT 15～25：H = None (ϕ28 Hole), DT 26～35：H = DT-25	67 g	20 pcs	200 pcs

■Cap for Thick Doors (Option)

Item Code	Item Name	Door Thickness	Material	Finish	Weight	Box	Carton
100-910-039	PK04VB	29～39	Stainless Steel (SUS430)	Plain	13 g	100 pcs	800 pcs

PUSH KNOB

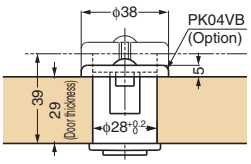
STEEL **PK04**





BN CR GA DN PK04VB (Option)

Part Name	Material
Push Knob	Zinc Alloy (ZDC)
Latch Body	ABS
Cap	ABS



■Features

- Knob can be pushed in when not in use.
- Able to install to door thickness 15-35 mm with cap included, 29-39 mm with PK04VB (option).

■Remarks

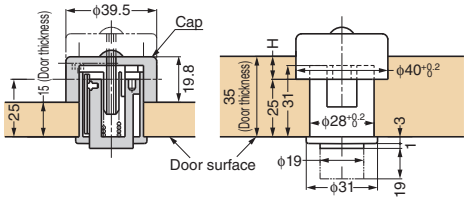
Install with bracket when applied to sheet metal.

■Parts Included

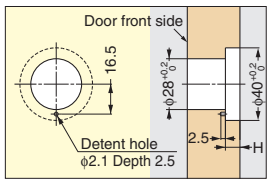
Truss head screw M3×20

■Option

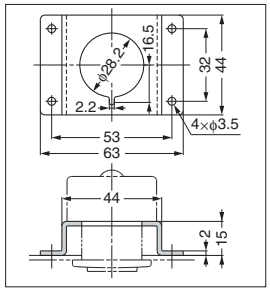
Cap for thick door (PK04VB)



■Cut Out Dimensions



■Bracket for Sheet Metal



■Body

Item Code	Item Name	Finish	Door Thickness (DT)	Bore Depth H	Weight	Box	Carton
100-015-025	PK04GA	Gold	15～35	DT 15～25：H = None (ϕ28 Hole), DT 26～35：H = DT-25	76 g	20 pcs	200 pcs
100-015-024	PK04CR	Chrome	15～35	DT 15～25：H = None (ϕ28 Hole), DT 26～35：H = DT-25	76 g	20 pcs	200 pcs
100-015-026	PK04BN	Black Nickel	15～35	DT 15～25：H = None (ϕ28 Hole), DT 26～35：H = DT-25	76 g	20 pcs	200 pcs
100-012-554	PK04DN	Nickel	15～35	DT 15～25：H = None (ϕ28 Hole), DT 26～35：H = DT-25	76 g	20 pcs	200 pcs

■Cap for Thick Doors (Option)

Item Code	Item Name	Door Thickness	Material	Finish	Weight	Box	Carton
100-910-039	PK04VB	29～39	Stainless Steel (SUS430)	Plain	13 g	100 pcs	800 pcs



STAINLESS STEEL DOOR HANDLE

STAINLESS 316 STEEL

ZL-1501

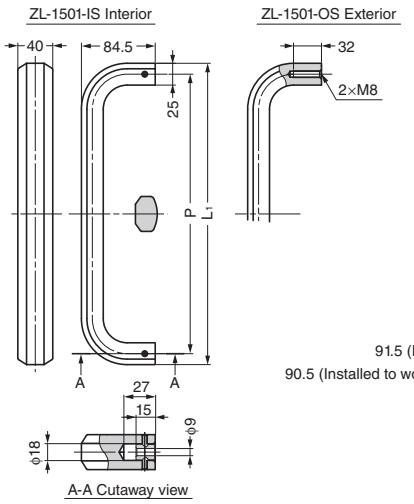


■Features

- Superior finish of Mirror/Satin.
- Able to install doors made of glass, wood, and metal.

■Remarks

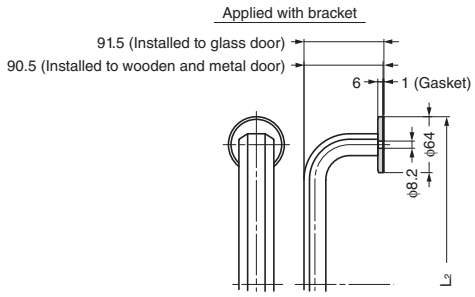
- Screws are not included in ZL-1501-OS and ZL-1501-IS.
- Bore holes with ±1 mm tolerance.



■Bracket ZL-1501-R (Sold Separately)



Item Code	Item Name
100-011-015	ZL-1501-R

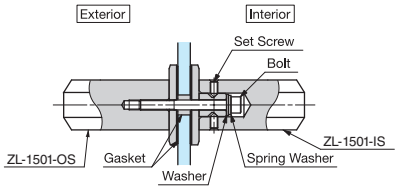
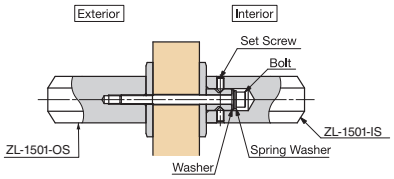
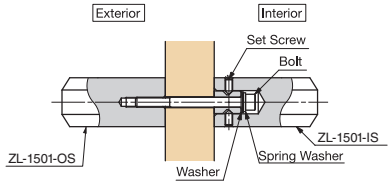
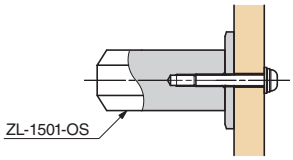
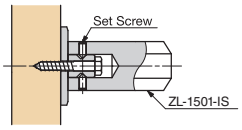
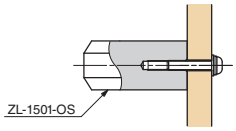
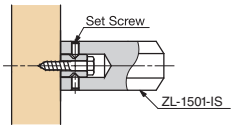


Material	Finish
Stainless Steel (SUS316)	Zwei L Finish

Item Code	Item Name	Type	L1	L2	P
100-177-010	ZL-1501-OS-320	Exterior	345	384	320
100-177-016	ZL-1501-IS-320	Interior	345	384	320
100-170-290	ZL-1501-WN-320	Back-to-Back	345	384	320
100-170-293	ZL-1501-WR-320	Back-to-Back with Base	345	384	320
100-177-011	ZL-1501-OS-640	Exterior	665	704	640
100-177-017	ZL-1501-IS-640	Interior	665	704	640
100-170-291	ZL-1501-WN-640	Back-to-Back	665	704	640
100-170-294	ZL-1501-WR-640	Back-to-Back with Base	665	704	640
100-177-012	ZL-1501-OS-960	Exterior	985	1024	960
100-177-018	ZL-1501-IS-960	Interior	985	1024	960
100-170-292	ZL-1501-WN-960	Back-to-Back	985	1024	960
100-170-295	ZL-1501-WR-960	Back-to-Back with Base	985	1024	960

Item Code	Item Name	Type	L1	L2	P
100-177-013	※ZL-1501-OS-1280	Exterior	1305	1344	1280
100-177-019	※ZL-1501-IS-1280	Interior	1305	1344	1280
100-170-250	※ZL-1501-WN-1280	Back-to-Back	1305	1344	1280
100-170-254	※ZL-1501-WR-1280	Back-to-Back with Base	1305	1344	1280
100-177-014	※ZL-1501-OS-1600	Exterior	1625	1664	1600
100-177-020	※ZL-1501-IS-1600	Interior	1625	1664	1600
100-170-252	※ZL-1501-WN-1600	Back-to-Back	1625	1664	1600
100-170-255	※ZL-1501-WR-1600	Back-to-Back with Base	1625	1664	1600
100-177-015	※ZL-1501-OS-1920	Exterior	1945	1984	1920
100-177-021	※ZL-1501-IS-1920	Interior	1945	1984	1920
100-170-253	※ZL-1501-WN-1920	Back-to-Back	1945	1984	1920
100-170-256	※ZL-1501-WR-1920	Back-to-Back with Base	1945	1984	1920

※Made to order.

Working Diagram			Door Thickness (mm)	Door Hole (mm)	Item Name
Back-to-Back on Glass Door	With Base Plate		6~16	ϕ 16	ZL-1501-WR
Back-to-Back on Wooden/Metal Frame Door	With Base Plate		25~45	ϕ 9	ZL-1501-WR
	Without Base Plate		37~57	ϕ 9	ZL-1501-WN
Single Use on Wooden/Metal Frame Door	With Base Plate		Screws not included. Base Plate (ZL-1501-R) sold separately	ϕ 9	ZL-1501-OS ZL-1501-R
				–	ZL-1501-IS ZL-1501-R
	Without Base Plate			ϕ 9	ZL-1501-OS
				–	ZL-1501-IS

*If door thickness exceeds recommended thickness, a longer bolt (not supplied) should be used.

STAINLESS STEEL DOOR HANDLE

STAINLESS 316 STEEL

ZL-1502



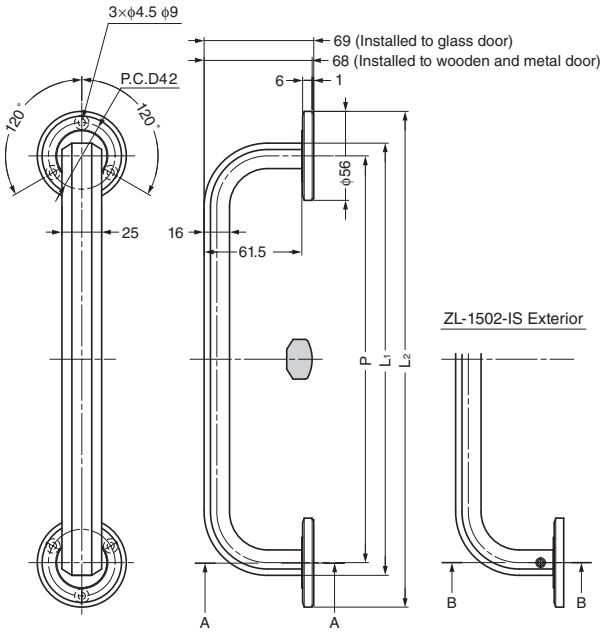
■Features

- Superior finish of Mirror/Satin.
- Able to install doors made of glass, wood, and metal.

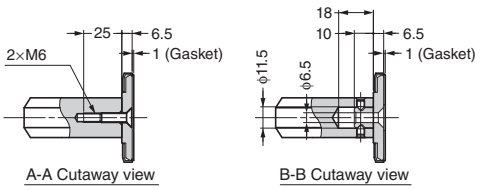
■Remarks

- Screws are not included in ZL-1502-OS and ZL-1502-IS.
- Bore holes with ±1 mm tolerance.

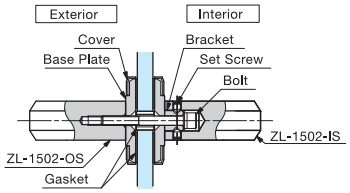
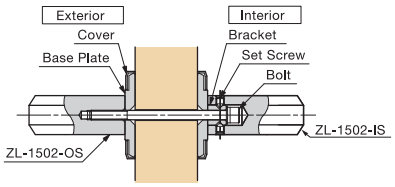
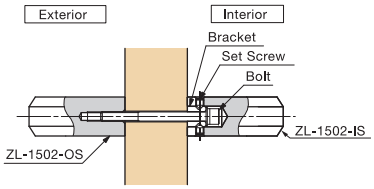
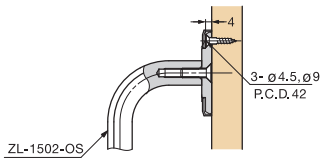
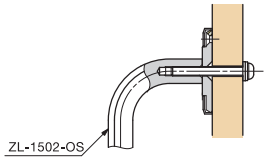
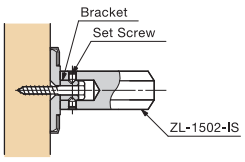
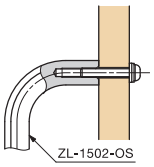
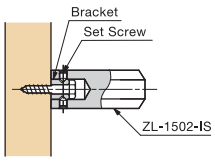
ZL-1502-OS Interior







Item Code	Item Name	Type	Material	Finish	L1	L2	P
100-177-034	ZL-1502-OS-192	Exterior	Stainless Steel (SUS316)	Zwei L Finish	208	248	192
100-177-038	ZL-1502-IS-192	Interior	Stainless Steel (SUS316)	Zwei L Finish	208	248	192
100-170-296	ZL-1502-WR-192	Back-to-Back with Base	Stainless Steel (SUS316)	Zwei L Finish	208	248	192
100-177-035	ZL-1502-OS-320	Exterior	Stainless Steel (SUS316)	Zwei L Finish	336	376	320
100-177-039	ZL-1502-IS-320	Interior	Stainless Steel (SUS316)	Zwei L Finish	336	376	320
100-170-297	ZL-1502-WR-320	Back-to-Back with Base	Stainless Steel (SUS316)	Zwei L Finish	336	376	320
100-177-036	ZL-1502-OS-640	Exterior	Stainless Steel (SUS316)	Zwei L Finish	656	696	640
100-177-040	ZL-1502-IS-640	Interior	Stainless Steel (SUS316)	Zwei L Finish	656	696	640
100-170-298	ZL-1502-WR-640	Back-to-Back with Base	Stainless Steel (SUS316)	Zwei L Finish	656	696	640
100-177-037	ZL-1502-OS-960	Exterior	Stainless Steel (SUS316)	Zwei L Finish	976	1016	960
100-177-041	ZL-1502-IS-960	Interior	Stainless Steel (SUS316)	Zwei L Finish	976	1016	960
100-170-299	ZL-1502-WR-960	Back-to-Back with Base	Stainless Steel (SUS316)	Zwei L Finish	976	1016	960

Working Diagram			Door Thickness (mm)	Door Hole (mm)	Item Name
Back-to-Back on Glass Door	With Base Plate		6~12	ϕ 12	ZL-1502-WR
Back-to-Back on Wooden/Metal Frame Door	With Base Plate		40~52	ϕ 7	ZL-1502-WR
	Without Base Plate		38~50	ϕ 7	ZL-1502-WR
Single Use on Wooden/Metal Frame Door	With Base Plate		Screws not included.	–	ZL-1502-OS
				ϕ 7	ZL-1502-OS
				–	ZL-1502-IS
	Without Base Plate			ϕ 7	ZL-1502-OS
				–	ZL-1502-IS

*If door thickness exceeds recommended thickness, a longer bolt (not supplied) should be used.

STAINLESS STEEL DOOR HANDLE

STAINLESS 316 STEEL

ZL-1506





■Features

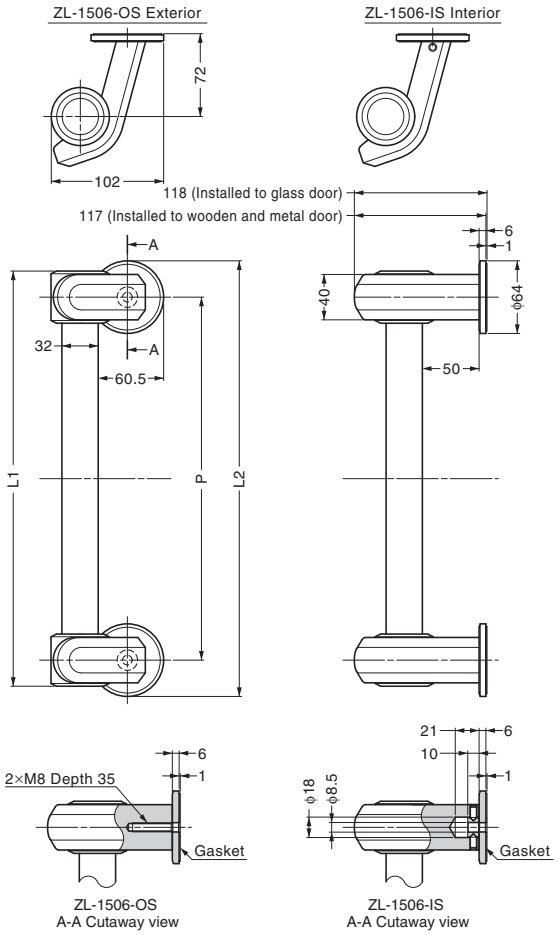
- Superior finish of Mirror/Satin.
- Able to install doors made of glass, wood, and metal.

■Remarks

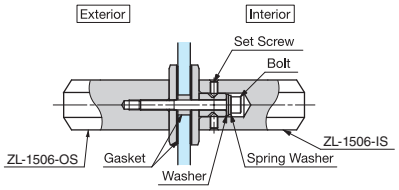
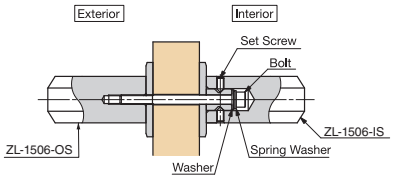
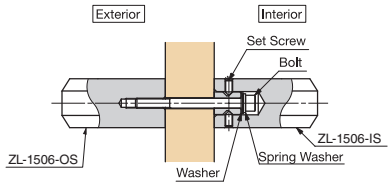
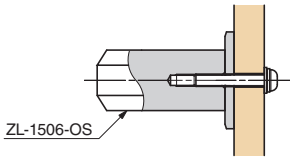
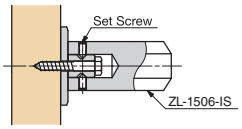
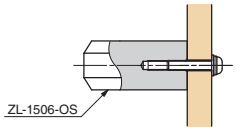
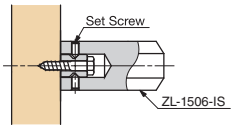
- Screws are not included to ZL-1506-OS and ZL-1506-IS.
- Bore holes with ±1 mm tolerance.

■Parts Included

Hex key 5



Item Code	Item Name	Type	Material	Finish	L_1	L_2	P
100-022-172	ZL-1506-OS-192	Exterior	Stainless Steel (SUS316)	Zwei L Finish	238	256	192
100-022-173	ZL-1506-IS-192	Interior	Stainless Steel (SUS316)	Zwei L Finish	238	256	192
100-022-174	ZL-1506-WR-192	Back-to-Back with Base	Stainless Steel (SUS316)	Zwei L Finish	238	256	192
100-022-175	ZL-1506-OS-320	Exterior	Stainless Steel (SUS316)	Zwei L Finish	366	384	320
100-022-176	ZL-1506-IS-320	Interior	Stainless Steel (SUS316)	Zwei L Finish	366	384	320
100-022-177	ZL-1506-WR-320	Back-to-Back with Base	Stainless Steel (SUS316)	Zwei L Finish	366	384	320
100-022-178	ZL-1506-OS-640	Exterior	Stainless Steel (SUS316)	Zwei L Finish	686	704	640
100-022-179	ZL-1506-IS-640	Interior	Stainless Steel (SUS316)	Zwei L Finish	686	704	640
100-022-180	ZL-1506-WR-640	Back-to-Back with Base	Stainless Steel (SUS316)	Zwei L Finish	686	704	640
100-022-181	ZL-1506-OS-960	Exterior	Stainless Steel (SUS316)	Zwei L Finish	1006	1024	960
100-022-182	ZL-1506-IS-960	Interior	Stainless Steel (SUS316)	Zwei L Finish	1006	1024	960
100-022-183	ZL-1506-WR-960	Back-to-Back with Base	Stainless Steel (SUS316)	Zwei L Finish	1006	1024	960

Working Diagram			Door Thickness (mm)	Door Hole (mm)	Item Name
Back-to-Back on Glass Door	With Base Plate		6~15	ϕ16	ZL-1506-WR
Back-to-Back on Wooden/Metal Frame Door	With Base Plate		25~45	ϕ 9	ZL-1506-WR
	Without Base Plate		37~57	ϕ 9	ZL-1506-WR
Single Use on Wooden/Metal Frame Door	With Base Plate		Screws not included.	ϕ 9	ZL-1506-OS
				–	ZL-1506-IS
	Without Base Plate			ϕ 9	ZL-1506-OS
				–	ZL-1506-IS

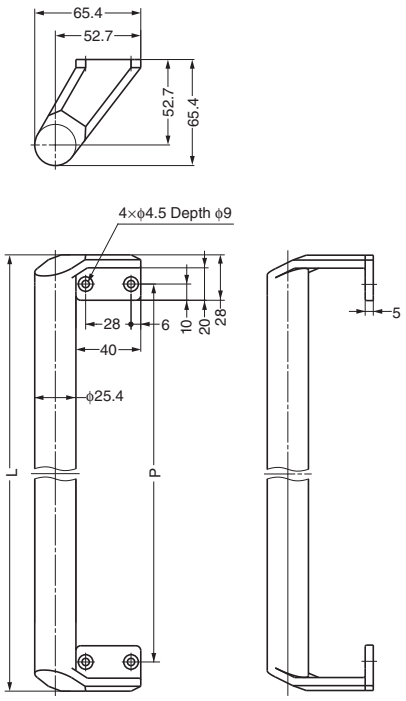
*If door thickness exceeds recommended thickness, a longer bolt (not supplied) should be used.

STAINLESS STEEL DOOR HANDLE

STAINLESS 316 STEEL

MP





■Recommended Screw

- Countersunk head screw M4
- Countersunk head tapping screw 4
- Countersunk head wood screw 4.1

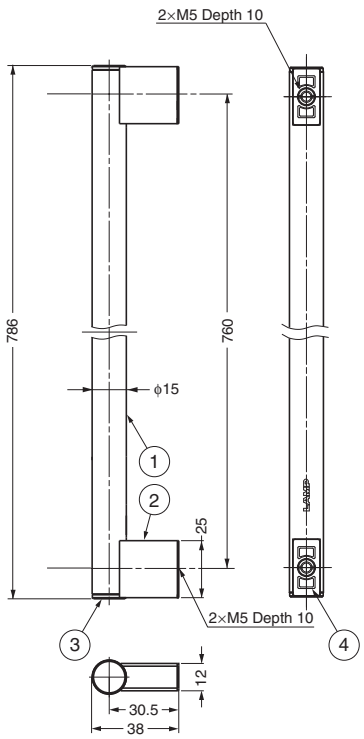
Item Code	Item Name	Material	Finish	L	P	Weight	Box	Carton
100-010-500	MP- 500	Stainless Steel (SUS316)	Mirror	500	464	1000 g	2 pcs	20 pcs
100-010-501	MP- 750	Stainless Steel (SUS316)	Mirror	750	714	1300 g	2 pcs	16 pcs
100-010-502	MP-1000	Stainless Steel (SUS316)	Mirror	1000	964	1600 g	2 pcs	12 pcs

STAINLESS STEEL DOOR HANDLE

STAINLESS 303 STEEL STAINLESS 304 STEEL

RH-760





■Features

Other handle sizes are possible at surcharge.

■Recommended Screw

M5 screw

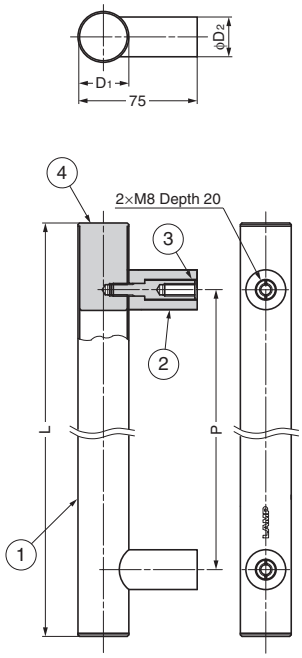
No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Satin
②	Stem	Stainless Steel (SUS304)	Satin
③	End Cap	Stainless Steel (SUS303)	Satin
④	Spacer	Polypropylene (PP)	Plain

Item Code	Item Name	Weight	Box
100-010-341	RH-760	340 g	20 pcs

STAINLESS STEEL DOOR HANDLE

SSH





■Recommended Screw

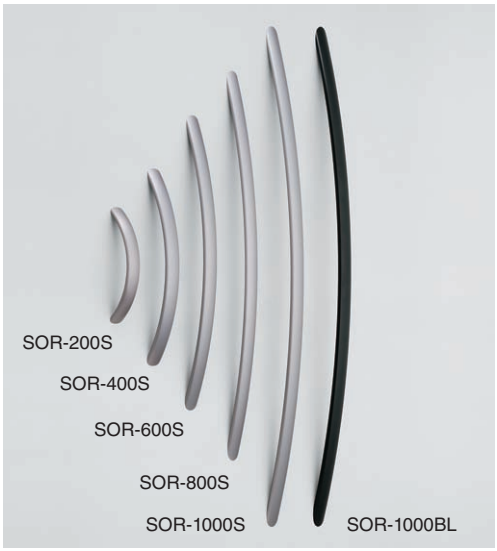
M8

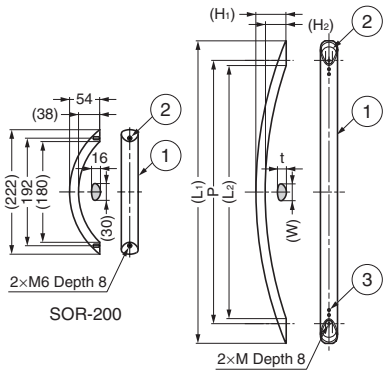
No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Stem	Stainless Steel (SUS304)	Satin
③	Screw	Stainless Steel (SUS304)	Satin
④	Cover	Stainless Steel (SUS304)	Satin

Item Code	Item Name	L	P	D1	D2	Weight	Carton
100-181-413	SSH-2540	400	316	25	19	665 g	10 pcs
100-181-414	SSH-2560	600	516	25	19	750 g	10 pcs
100-181-415	SSH-2580	800	716	25	19	840 g	10 pcs
100-181-416	SSH-3240	400	316	32	25	1175 g	5 pcs
100-181-417	SSH-3260	600	516	32	25	1290 g	5 pcs
100-181-418	SSH-3280	800	716	32	25	1400 g	5 pcs

ALUMINIUM DOOR HANDLE

SOR





SOR-400, SOR-600,
SOR-800, SOR-1000

■Recommended Screw

M6, M8

No.	Part Name	Material
①	Body	Aluminium Alloy
②	Insert	Stainless Steel (SCS13)
③	Screw	Stainless Steel

Item Code	Item Name	Finish	L1	L2	P	H1	H2	W	t	M	Weight	Carton
100-028-297	SOR-200S	Stainless Steel/Anodized	As Above								228 g	50 pcs
100-028-298	SOR-200BL	Black/Anodized									228 g	50 pcs
100-010-961	SOR-400S	Stainless Steel/Anodized	390	323	335	60	42	34	18	M6	385 g	30 pcs
100-010-963	SOR-400BL	Black/Anodized	390	323	335	60	42	34	18	M6	385 g	30 pcs
100-010-962	SOR-600S	Stainless Steel/Anodized	600	502	522	60	42	34	18	M6	495 g	20 pcs
100-010-964	SOR-600BL	Black/Anodized	600	502	522	60	42	34	18	M6	495 g	20 pcs
100-010-960	SOR-800S	Stainless Steel/Anodized	816	686	710	60	42	34	18	M8	605 g	15 pcs
100-010-965	SOR-800BL	Black/Anodized	816	686	710	60	42	34	18	M8	605 g	15 pcs
100-028-299	SOR-1000S	Stainless Steel/Anodized	1090	939.8	975	80	59.8	38	20.2	M8	1647 g	8 pcs
100-028-300	SOR-1000BL	Black/Anodized	1090	939.8	975	80	59.8	38	20.2	M8	1647 g	8 pcs

DESIGN DOOR HANDLE

STAINLESS 304 STEEL

MDH



■Parts Included

Hexagonal M8 bolts

■Bracket



MDH-BS



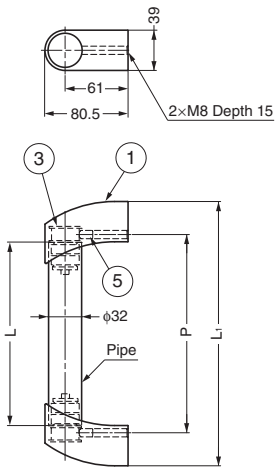
MDH-BF

■Fixing Parts

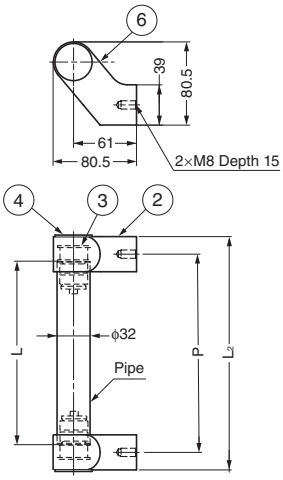




MDH-BS



MDH-BF



■Bracket

Item Code	Item Name	Parts	Weight
100-022-158	MDH-BS	①③⑤ (Each 2 pcs)	1010 g
100-022-159	MDH-BF	②③④⑥ (Each 2 pcs)	1122 g

No.	Part Name	Material	Finish/Colour
①	Bracket (In-line)	Zinc Alloy (ZDC)	Matte Chrome
②	Bracket (Offset)		
③	Fixing Parts		Plain
④	Cover	Polyacetal (POM)	Black
⑤	Hexagon Socket Set Screw M8×8	Stainless Steel	Plain
⑥	Hexagon Socket Set Screw M8×15		

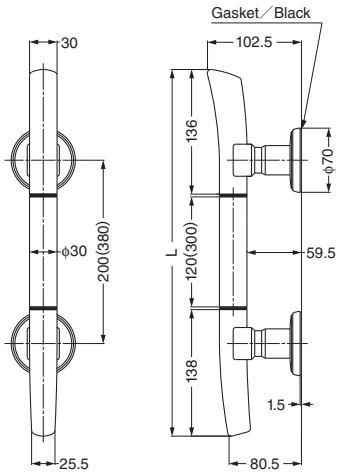
■Pipe

Item Code	Item Name	Material	Finish	L	L_1	L_2	P	Pipe Thickness	Weight	Carton
100-022-161	MDH-PS192	Stainless Steel (SUS304)	Satin	177	256	226	192	2	384 g	10 pcs
100-022-162	MDH-PS350	Stainless Steel (SUS304)	Satin	335	414	384	350	2	727 g	10 pcs
100-022-163	MDH-PS500	Stainless Steel (SUS304)	Satin	485	564	534	500	2	1050 g	10 pcs
100-022-164	MDH-PS800	Stainless Steel (SUS304)	Satin	785	864	834	800	2	1700 g	10 pcs
100-022-165	MDH-PS1200	Stainless Steel (SUS304)	Satin	1185	1264	1234	1200	2	2570 g	7 pcs
100-022-166	MDH-PC192	Carbon Fiber Reinforced Polymer (CFRP)	Paint/Clear	177	256	226	192	2.5	70 g	10 pcs
100-022-167	MDH-PC350	Carbon Fiber Reinforced Polymer (CFRP)	Paint/Clear	335	414	384	350	2.5	132 g	10 pcs
100-022-168	MDH-PC500	Carbon Fiber Reinforced Polymer (CFRP)	Paint/Clear	485	564	534	500	2.5	191 g	10 pcs
100-022-169	MDH-PC800	Carbon Fiber Reinforced Polymer (CFRP)	Paint/Clear	785	864	834	800	2.5	309 g	10 pcs
100-022-170	MDH-PC1200	Carbon Fiber Reinforced Polymer (CFRP)	Paint/Clear	1185	1264	1234	1200	2.5	467 g	7 pcs

DOOR HANDLE

DTM-B





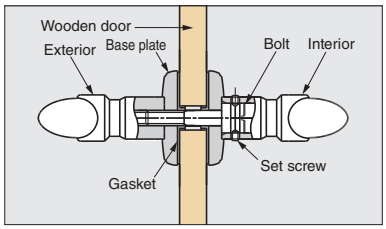
■**Features**

Made of brass with 24K gold plating.

■**Parts Included**

Hexagon socket set screw M6×8 (SUS)

■**Installation**



Item Code	Item Name	L	Material	Finish	Door Thickness	Holes	Box
100-173-776	DTM-B400GA	400	Brass	24K Gold Plating (Body), Black Nickel (Ring)	Wooden Door：36～50, Glass Door：10, 12, 15	φ17	2 pcs/set
100-173-775	DTM-B580GA	580	Brass	24K Gold Plating (Body), Black Nickel (Ring)	Wooden Door：36～50, Glass Door：10, 12, 15	φ17	2 pcs/set

たまづさ

Tamazusa ia a range of handles inspired by the art and architecture of the Momoyama period in Japanese history.

When the C16th overlord Nobunaga Oda set about the bloody process of unifying Japan he built a fabulous castle near Kyoto. Until the Momoyama period Castles were gloomy military structures but Azuchi castle was a glittering celebration of power and art. The intention was to impress and intimidate and the fusion of art and architecture defined the era.



TMH (P.36)



Without base plate



TMT (P.787)

Sugatsune has taken the delicate curves of the Momoyama period and fashioned a series of opulent 24 carat gold plated handles and pulls that express the beauty of Momoyama in a contemporary voice.





STAINLESS STEEL DOOR KNOB

STAINLESS 316 STEEL · STAINLESS

ZL-1503

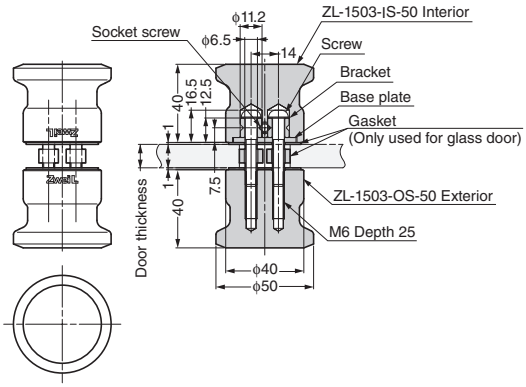


■Features

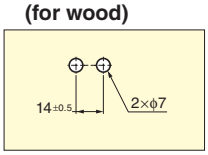
Superior finish of Mirror/Satin.

■Parts Included

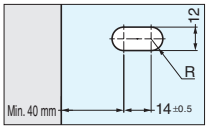
- Bolt set for door knob
- Allen key
- Gasket



■Cut Out Dimensions (for wood)



■Cut Out Dimensions (for glass)

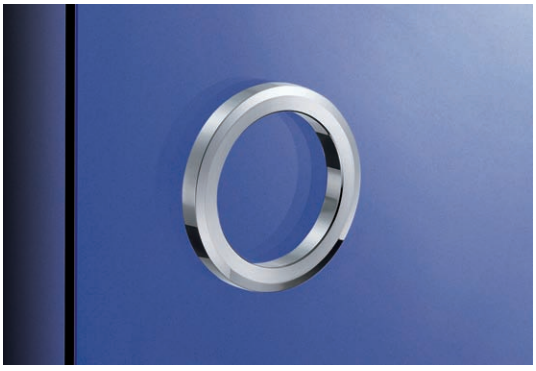


Item Code	Item Name	Type	Material	Finish	Door Thickness	Weight
100-170-788	ZL-1503-IS-50	Interior Knob	Stainless Steel (SUS316)	Zwei L Finish	Wooden/Metal Frame: 36~48, Glass: 6, 8, 10, 12	413 g
100-170-787	ZL-1503-OS-50	Exterior Knob	Stainless Steel (SUS316)	Zwei L Finish	Wooden/Metal Frame: 36~48, Glass: 6, 8, 10, 12	507 g
100-011-032	ZL-1503-WN-50	Back-to-Back Knob	Stainless Steel (SUS316)	Zwei L Finish	Wooden/Metal Frame: 36~48, Glass: 6, 8, 10, 12	1015 g

STAINLESS STEEL DOOR KNOB

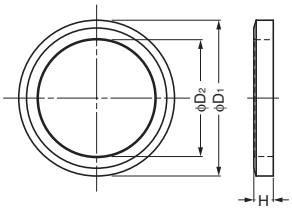
STAINLESS 316 STEEL

ZL-2502



■Features

- Superior finish of Mirror/Satin.
- Designed to install with UV curing.



Item Code	Item Name	Material	Finish	D1	D2	H	Weight
100-010-972	ZL-2502-56	Stainless Steel (SUS316)	Zwei L Finish	56	38	6	68 g
100-010-973	ZL-2502-80	Stainless Steel (SUS316)	Zwei L Finish	80	53	10	222 g

STAINLESS STEEL DOOR KNOB

ZL-1504



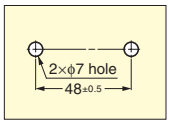
■Features

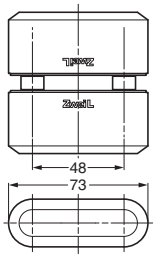
Superior finish of Mirror/Satin.

■Parts Included

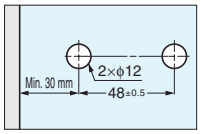
- Bolt set for door knob
- Allen key
- Gasket

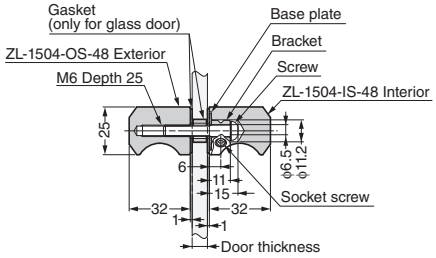
■Cut Out Dimensions (for wood)





■Cut Out Dimensions (for glass)





Item Code	Item Name	Type	Material	Finish	Door Thickness	Weight
100-170-785	ZL-1504-IS-48	Interior Knob	Stainless Steel (SUS316)	Zwei L Finish	Wooden/Metal Frame: 36～48, Glass: 6, 8, 10, 12	432 g
100-170-784	ZL-1504-OS-48	Exterior Knob	Stainless Steel (SUS316)	Zwei L Finish	Wooden/Metal Frame: 36～48, Glass: 6, 8, 10, 12	462 g
100-011-031	ZL-1504-WN-48	Back-to-Back Knob	Stainless Steel (SUS316)	Zwei L Finish	Wooden/Metal Frame: 36～48, Glass: 6, 8, 10, 12	989 g

STAINLESS STEEL DOOR KNOB

ZL-1505

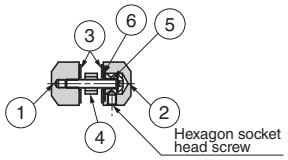


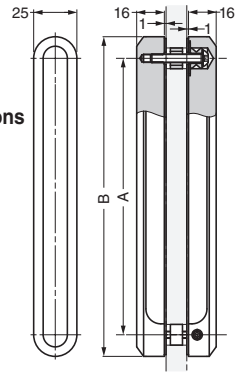
■Features

Superior finish of Mirror/Satin.

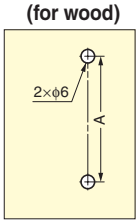
■Parts Included

- ZL-1505-IS：Bracket
  Washer
  Hexagon socket head screw M5×8
  Allen key
- ZL-1505-OS：Zwei L screw M5×28
- ZL-1505-WN：Bolt set ZL-1505-B

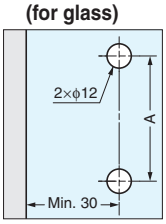




■Cut Out Dimensions (for wood)



■Cut Out Dimensions (for glass)



Item Code	Item Name	Type	Material	Finish	A	B	Weight
100-011-026	ZL-1505-IS-160	Interior Knob	Stainless Steel (SUS316)	Zwei L Finish	160	185	563 g
100-011-028	ZL-1505-IS-320	Interior Knob	Stainless Steel (SUS316)	Zwei L Finish	320	345	1023 g
100-011-025	ZL-1505-OS-160	Exterior Knob	Stainless Steel (SUS316)	Zwei L Finish	160	185	580 g
100-011-027	ZL-1505-OS-320	Exterior Knob	Stainless Steel (SUS316)	Zwei L Finish	320	345	1052 g
100-010-433	ZL-1505-WN-160	Back-to-Back Knob	Stainless Steel (SUS316)	Zwei L Finish	160	185	1177 g
100-010-434	ZL-1505-WN-320	Back-to-Back Knob	Stainless Steel (SUS316)	Zwei L Finish	320	345	2109 g

No.	Part Name	Material
①	ZL-1505-OS (Exterior)	Stainless Steel (SUS316)
②	ZL-1505-IS (Interior)	Stainless Steel (SUS316)
③	Gasket	Elastomer (TPE)
④	Rubber Ring	Chloroprene Rubber (CR)
⑤	Bracket	Stainless Steel (SUS316)
⑥	Washer	Stainless Steel (SUS316)

■Bolt Set for Back-to-back Installation

Item Code	Item Name
100-011-029	ZL-1505-B

Part Name	Door	Material	Qty	Door Thickness
Hexagon Socket Button Head Screw M5×60	Wooden/Metal Frame	Stainless Steel	2 pcs	40～46
Hexagon Socket Button Head Screw M5×30	Glass	Stainless Steel	2 pcs	8, 10, 12
Hex Key	—	Steel	1 pc	—
Gasket	Glass	Elastomer (TPE)	2 pcs	—
Rubber Ring	Glass	Chloroprene Rubber (CR)	2 pcs	—

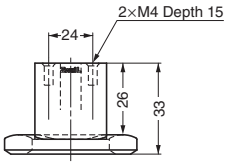
STAINLESS STEEL KNOB

ZL-1909



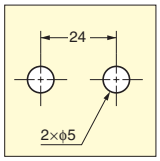
■Features
- Superior finish of Mirror/Satin.
- For use with wood or tempered glass.

■Parts Included
- For wooden doors : 16～23 mm : Screw M4×28 (SUS)
- For glass doors : 4, 5, 6 mm : Screw M4×16 (SUS)
- Gasket

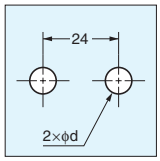


■Cut Out Dimensions

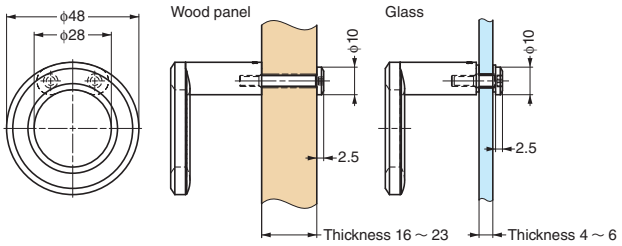
Wooden doors



Glass doors



Thickness 4, 5 : d=5
Thickness 6 : d=6



Item Code	Item Name	Material	Finish	Weight
100-022-171	ZL-1909	Stainless Steel (SUS316)	Zwei L Finish	97 g

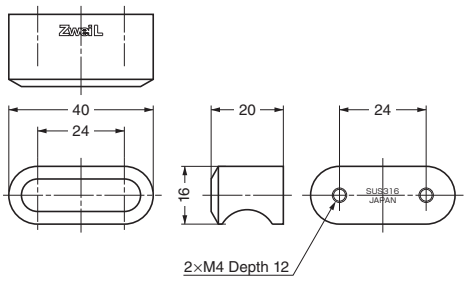
STAINLESS STEEL KNOB

ZL-1907



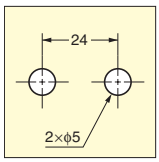
■Features
- Superior finish of Mirror/Satin.
- For use with wood or tempered glass.

■Parts Included
- For wooden doors : 16～23 mm : Screw M4×28 (SUS)
- For glass doors : 4, 5, 6 mm : Screw M4×16 (SUS)
- Gasket

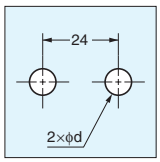


■Cut Out Dimensions

Wooden doors



Glass doors



Thickness 4, 5 : d=5
Thickness 6 : d=6

Item Code	Item Name	Material	Finish	Weight
100-011-016	ZL-1907-24	Stainless Steel (SUS316)	Zwei L Finish	78 g

STAINLESS STEEL KNOB

ZL-1906

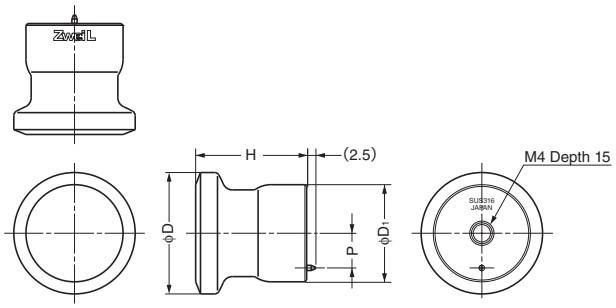


■Features

- Superior finish of Mirror/Satin.
- For use with wood or tempered glass.

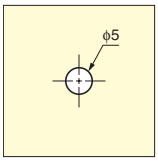
■Parts Included

- For woodedn doors : 16～23 mm : Screw M4×28 (SUS)
- For glass doors : 4, 5, 6 mm : Screw M4×16 (SUS)
- Gasket

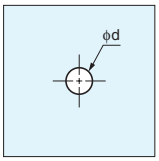


■Cut Out Dimensions

Wooden doors



Glass doors



Thickness 4, 5 : d=5
Thickness 6 : d=6

Item Code	Item Name	Material	Finish	H	D	D_1	P	Weight
100-011-019	ZL-1906-20	Stainless Steel (SUS316)	Zwei L Finish	20	20	16	5	32 g
100-011-018	ZL-1906-28	Stainless Steel (SUS316)	Zwei L Finish	26	28	22.5	8	83 g
100-011-017	ZL-1906-36	Stainless Steel (SUS316)	Zwei L Finish	32	36	28	10	165 g

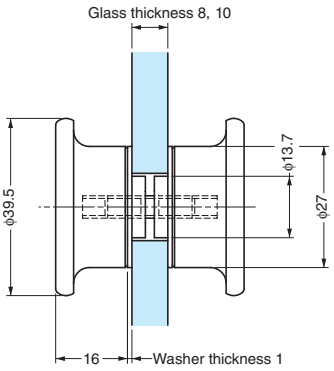
BOTH-SIDES KNOB

GT-40CR

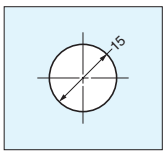


■Parts Included

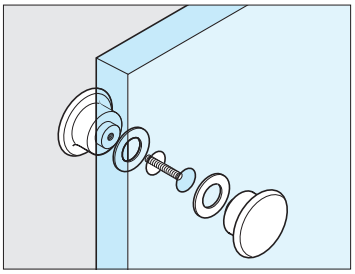
- PVC washers
- Screw M5 (SUS)



■Cut Out Dimension



■Installation



Item Code	Item Name	Material	Finish	Glass Thickness	Weight	Box	Carton
100-019-767	GT-40CR	Brass	Chrome	8, 10	215 g	6 pcs	48 pcs

STAINLESS STEEL SLIDING DOOR HANDLE

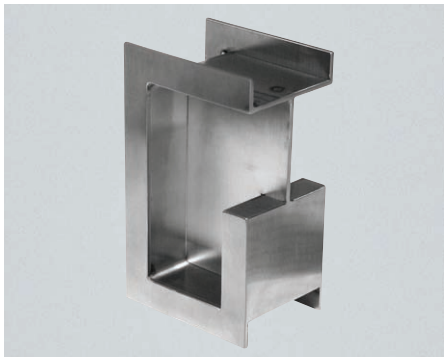

DSI-4251


DSI-3250

STAINLESS STEEL SLIDING DOOR HANDLE

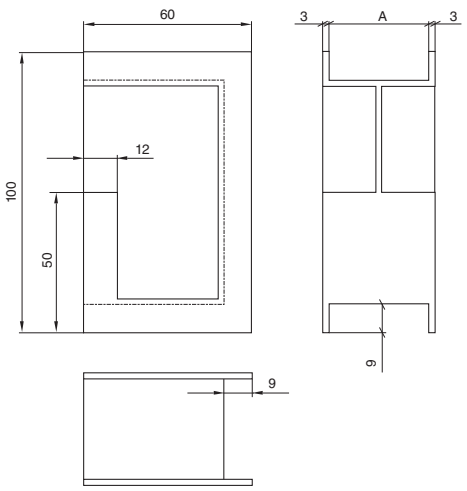
STAINLESS 304 STEEL

DSI-4253



■Features

- Contemporary handle design that can be accessed from door front, back, or edge.
- Requires adhesive for installation. (Such as 2-part epoxy, not supplied.)



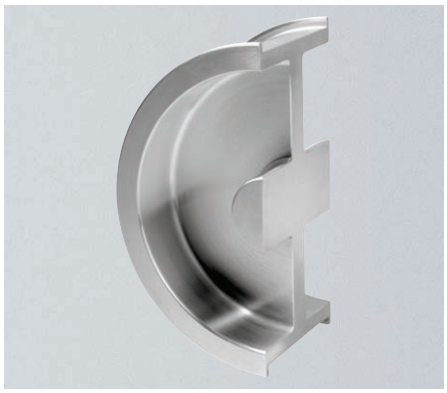
Item Code	Item Name	A	Weight	Box	Carton
—	DSI-4253-35	35	495 g	1 pc	10 pcs
—	DSI-4253-38	38	506 g		
—	DSI-4253-40	40	515 g		
—	DSI-4253-43	43	530 g		
—	DSI-4253-45	44.5	545 g		

Material	Finish
304 Stainless Steel	Satin

STAINLESS STEEL SLIDING DOOR HANDLE

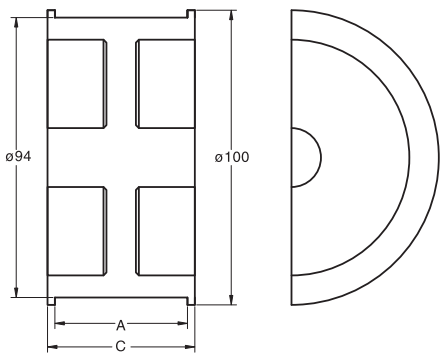
STAINLESS 304 STEEL

DSI-3250



■Features

- Contemporary handle design that can be accessed from door front, back, or edge.
- Requires adhesive for installation. (Such as 2-part epoxy, not supplied.)



Item Code	Item Name	C	A	Weight	Box	Carton
—	DSI-3250-12	16	12	280 g	1 pc	10 pcs
—	DSI-3250-35	39	35	440 g		
—	DSI-3250-45	49	45	550 g		
—	DSI-3250-50	54	50	670 g		

Material	Finish
304 Stainless Steel	Satin

STAINLESS STEEL SLIDING DOOR HANDLE

STAINLESS 304 STEEL

DSI-4251

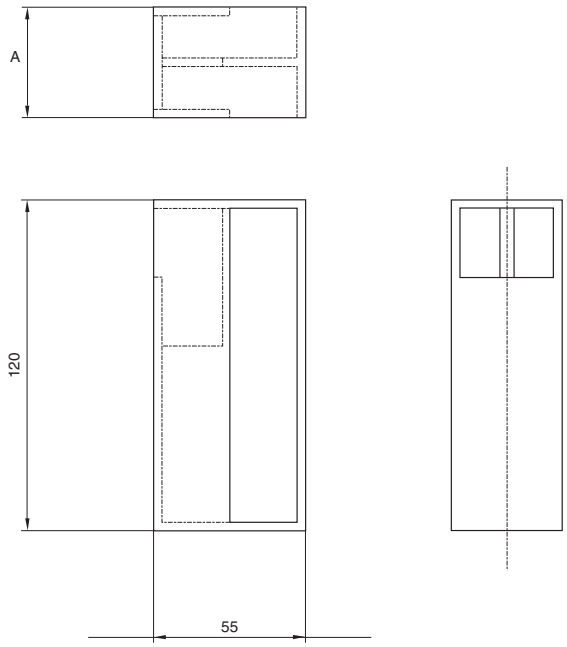






■Features

- Contemporary handle design that can be accessed from door front, back, or edge.
- Requires adhesive for installation. (Such as 2-part epoxy, not supplied.)



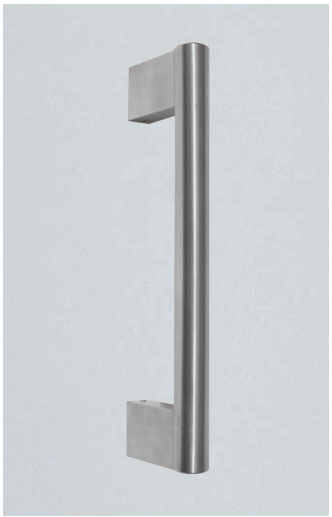
Item Code	Item Name	A	Weight	Box	Carton
—	DSI-4251-35	35	490 g	1 pc	10 pcs
—	DSI-4251-38	38	515 g		
—	DSI-4251-40	40	530 g		
—	DSI-4251-43	43	550 g		
—	DSI-4251-45	44.5	570 g		
—	DSI-4251-50	50	590 g		

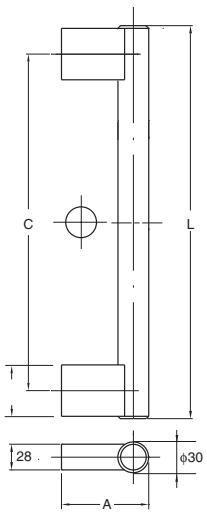
Material	Finish
304 Stainless Steel	Satin

STAINLESS STEEL DOOR HANDLE

STAINLESS 304 STEEL

DSI-3330





■Features

- For use with DSI mounting kits (Sold separately, P.108).
- Please specify Interior/Exterior type when ordering:
  - Posts for Exterior handles are threaded to accept screws.
  - Posts for Interior handles have set screws for DSI mounting kits.
- Similar style to I1020 cabinet handles (P.29).

Material	Finish
304 Stainless Steel	Satin

Item Code		Item Name		L	C	A	Weight		Box	Carton
Interior	Exterior	Interior	Exterior				Interior	Exterior		
—	—	DSI-3330-30-30I	DSI-3330-30-30E	320	300	90	1.48 kg	1.56 kg	1 pc	10 pcs
—	—	DSI-3330-30-50I	DSI-3330-30-50E	520	500		1.70 kg	1.70 kg		

STAINLESS STEEL DOOR HANDLE

STAINLESS 304 STEEL

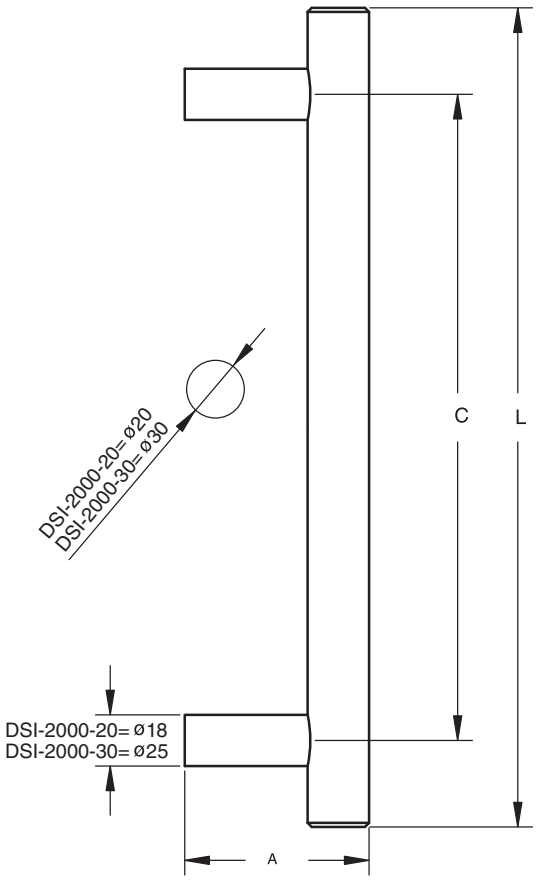
DSI-2000





Features

- For use with DSI mounting kits (Sold separately, P.108).
- Please specify Interior/Exterior type when ordering:
  - Posts for Exterior handles are threaded to accept screws.
  - Posts for Interior handles have set screws for DSI mounting kits.
- Similar style to I1014 cabinet handles (P.29).



Material	Finish
304 Stainless Steel	Satin

Item Code		Item Name		L	C	A	Weight		Box	Carton
Interior	Exterior	Interior	Exterior				Interior	Exterior		
–	–	DSI-2000-20-20I	DSI-2000-20-20E	300	200	65	0.88 kg	0.88 kg	1 pc	10 pcs
–	–	DSI-2000-20-25I	DSI-2000-20-25E	400	250		1.11 kg	1.11 kg		
–	–	DSI-2000-20-30I	DSI-2000-20-30E	450	300		1.23 kg	1.25 kg		
–	–	DSI-2000-20-50I	DSI-2000-20-50E	700	500		0.47 kg	0.54 kg		

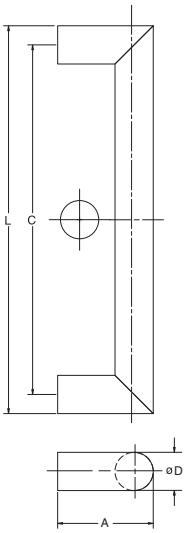
Item Code		Item Name		L	C	A	Weight		Box	Carton
Interior	Exterior	Interior	Exterior				Interior	Exterior		
–	–	DSI-2000-30-25I	DSI-2000-30-25E	550	250	90	1.34 kg	1.11 kg	1 pc	10 pcs
–	–	DSI-2000-30-35I	DSI-2000-30-35E	650	350		1.22 kg	1.20 kg		
–	–	DSI-2000-30-45I	DSI-2000-30-45E	750	450		1.34 kg	1.29 kg		
–	–	DSI-2000-30-60I	DSI-2000-30-60E	900	600		1.50 kg	1.50 kg		

STAINLESS STEEL DOOR HANDLE

STAINLESS 304 STEEL

DSI-3310





■Features

- For use with DSI mounting kits (Sold separately, P.108).
- Please specify Interior/Exterior type when ordering:
  - Posts for Exterior handles are threaded to accept screws.
  - Posts for Interior handles have set screws for DSI mounting kits.
- Similar style to DIH series cabinet handles (P.29).

Material	Finish
304 Stainless Steel	Satin

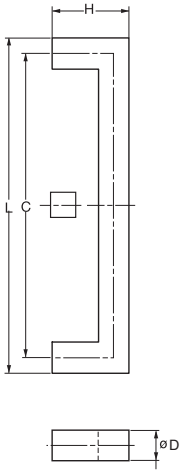
Item Code		Item Name		D	L	C	A	Weight		Box	Carton
Interior	Exterior	Interior	Exterior					Interior	Exterior		
–	–	DSI-3310-15-15I	DSI-3310-15-15E	15	165	150	55	0.32 kg	0.32 kg	1 pc	10 pcs
–	–	DSI-3310-15-20I	DSI-3310-15-20E		215	200		0.38 kg	0.40 kg		
–	–	DSI-3310-15-30I	DSI-3310-15-30E		315	300		0.52 kg	0.54 kg		
–	–	DSI-3310-20-20I	DSI-3310-20-20E	20	220	200	65	0.16 kg	0.18 kg		
–	–	DSI-3310-20-25I	DSI-3310-20-25E		270	250		0.18 kg	0.20 kg		
–	–	DSI-3310-20-30I	DSI-3310-20-30E		320	300		0.20 kg	0.23 kg		
–	–	DSI-3310-30-25I	DSI-3310-30-25E	30	280	250	90	0.48 kg	0.48 kg		
–	–	DSI-3310-30-30I	DSI-3310-30-30E		330	300		0.52 kg	0.52 kg		
–	–	DSI-3310-30-35I	DSI-3310-30-35E		380	350		0.59 kg	0.57 kg		
–	–	DSI-3310-30-60I	DSI-3310-30-60E		630	600		0.64 kg	0.64 kg		

STAINLESS STEEL DOOR HANDLE

STAINLESS 304 STEEL

DSI-4400





■Features

- For use with DSI mounting kits (Sold separately, P.108).
- Please specify Interior/Exterior type when ordering:
  - Posts for Exterior handles are threaded to accept screws.
  - Posts for Interior handles have set screws for DSI mounting kits.
- Similar style to KPH series cabinet handles (P.26).

Material	Finish
304 Stainless Steel	Satin

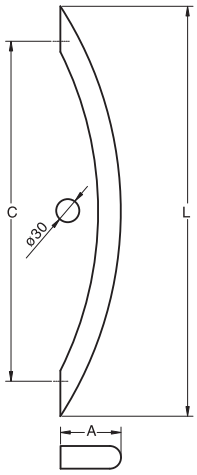
Item Code		Item Name		D	L	C	H	Weight		Box	Carton
Interior	Exterior	Interior	Exterior					Interior	Exterior		
–	–	DSI-4400-15-15I	DSI-4400-15-15E	15	165	150	55	0.41 kg	0.42 kg	1 pc	10 pcs
–	–	DSI-4400-15-20I	DSI-4400-15-20E		215	200		0.48 kg	0.50 kg		
–	–	DSI-4400-15-30I	DSI-4400-15-30E		315	300		0.67 kg	0.68 kg		
–	–	DSI-4400-20-20I	DSI-4400-20-20E	20	220	200	65	0.18 kg	0.23 kg		
–	–	DSI-4400-20-25I	DSI-4400-20-25E		270	250		0.22 kg	0.24 kg		
–	–	DSI-4400-20-30I	DSI-4400-20-30E		320	300		0.26 kg	0.26 kg		
–	–	DSI-4400-30-25I	DSI-4400-30-25E	30	280	250	90	0.56 kg	0.59 kg		
–	–	DSI-4400-30-30I	DSI-4400-30-30E		330	300		0.51 kg	0.50 kg		
–	–	DSI-4400-30-35I	DSI-4400-30-35E		380	350		0.70 kg	0.57 kg		
–	–	DSI-4400-30-60I	DSI-4400-30-60E		630	600		1.10 kg	1.10 kg		

STAINLESS STEEL DOOR HANDLE

STAINLESS 304 STEEL

DSI-1630







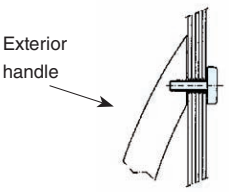
■Features

- For use with DSI mounting kits (Sold separately, below).
- Please specify Interior/Exterior type when ordering:
  - Posts for Exterior handles are threaded to accept screws.
  - Posts for Interior handles have set screws for DSI mounting kits.
- Similar style to 30 series cabinet handles (P.27).

Material	Finish
304 Stainless Steel	Satin

Item Code		Item Name		L	C	A	Weight	Box	Carton
Interior	Exterior	Interior	Exterior						
—	—	DSI-1630-30-25I	DSI-1630-30-25E	314	250	66	0.8 kg	1 pc	10 pcs
—	—	DSI-1630-30-35I	DSI-1630-30-35E	430	350	74	1.2 kg		
—	—	DSI-1630-30-45I	DSI-1630-30-45E	542	450	80	1.5 kg		
—	—	DSI-1630-30-60I	DSI-1630-30-60E	721	600	79	1.8 kg		

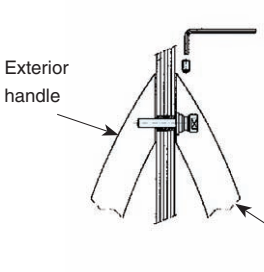
MOUNTING KIT FOR DSI SERIES DOOR HANDLES



Installation for Wood/Metal/Glass door
Max. Door thickness:

DSI-1630-30:100 mm	DSI-3310-30: 60 mm
DSI-2000-20: 80 mm	DSI-3330-30:100 mm
DSI-2000-30: 80 mm	DSI-4400-15: 60 mm
DSI-3310-15: 60 mm	DSI-4400-20: 60 mm
DSI-3310-20: 60 mm	DSI-4400-30: 60 mm

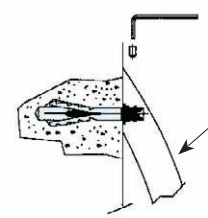
Item Code	Item Name	For Use With
—	DKIT-2/15-1	DSI-3310-15
—	DKIT-2/15-2	DSI-4400-15
—	DKIT-2/20-1	DSI-2000-20/DSI-3310-20
—	DKIT-2/20-2	DSI-4400-20
—	DKIT-2/30-1	DSI-1630-30/DSI-2000-30/DSI-3310-30/DSI-3330-30
—	DKIT-2/30-2	DSI-4400-30



Installation for Back-to-back Mount
Max. Door thickness:

DSI-1630-30: 90 mm	DSI-3310-30:100 mm
DSI-2000-20:100 mm	DSI-3330-30:100 mm
DSI-2000-30: 45 mm	DSI-4440-15:100 mm
DSI-3310-15:100 mm	DSI-4440-20:100 mm
DSI-3310-20:100 mm	DSI-4400-30:100 mm

Item Code	Item Name	For Use With
—	DKIT-4/15-1	DSI-3310-15
—	DKIT-4/15-2	DSI-4400-15
—	DKIT-4/20-1	DSI-2000-20/DSI-3310-20
—	DKIT-4/20-2	DSI-4400-20
—	DKIT-4/30-1	DSI-1630-30/DSI-2000-30/DSI-3310-30/DSI-3330-30
—	DKIT-4/30-2	DSI-4400-30



Installation for Wall-mount or Concrete

Item Code	Item Name	For Use With
—	DKIT-5/15	DSI-3310-15/DSI-4400-15
—	DKIT-5/20	DSI-2000-20/DSI-3310-20/DSI-4400-20
—	DKIT-5/30	DSI-1630-30/DSI-2000-30/DSI-3310-30/DSI-3330-30/DSI-4400-30

HOOKS

SUGATSUNE

HOOKS

Picture	Item Name	Load Capacity (kgf)	Page
	ZL-2101 STAINLESS 316 STEEL	37	116
	ZL-2102 STAINLESS 316 STEEL	30	116
	ZL-2104 STAINLESS 316 STEEL	16.3～48.4	117
	ZL-2105 STAINLESS 316 STEEL	—	117
	ZL-2103 STAINLESS 316 STEEL	—	118
	ZL-3401 STAINLESS 316 STEEL	20.4～40.8	118
	FC STAINLESS 304 STEEL	10～30	132
	TY STAINLESS 304 STEEL	3～8	133
	TF STAINLESS 304 STEEL	3～12	133
	TL STAINLESS 304 STEEL	5～12	133
	CS, CL STAINLESS 304 STEEL	5～8	134
	EU STAINLESS 316 STEEL	20～30	134
	EW STAINLESS 304 STEEL	20	134
	TA3 STAINLESS 304 STEEL	16	135
	PF STAINLESS 304 STEEL	2	135
	EL STAINLESS 304 STEEL	20	135
	EP STAINLESS 304 STEEL	20	135
	XL-HJT STAINLESS 304 STEEL	8～10	136
	HJT STAINLESS 304 STEEL	8～10	136
	HJ STAINLESS 304 STEEL	8～10	136
	DS-H STAINLESS 303 STEEL	10	137
	KB-H STAINLESS 303 STEEL	20	137
	HJU STAINLESS 304 STEEL	8～10	137
	2H STAINLESS 304 STEEL	6～10	138
	RI-074 STAINLESS 304 STEEL	5	138
	RB-102 STAINLESS 304 STEEL	—	138
	RN-50 STAINLESS 304 STEEL	9.4	138

Picture	Item Name	Load Capacity (kgf)	Page
	SSF-10	5.8	140
	MBF240	6	140
	KB-F-70 STAINLESS 303 STEEL	—	141
	KB-F-75 STAINLESS 303 STEEL	—	141
	SW-B-75	Top Hook: 5 Hook: 15	142
	SW-B-90	Top Hook: 2 Hook: 10	142
	SW-B-140	Top Hook: 3 Hook: 15	142
	SW-B-180	Top Hook: 5 Hook: 10	143
	SW-B-135	7	143
	SW-G-40	10	143
	PXB-UM	10	144
	PXB-UM-Q1	10	144
	PXB-WM	10	145
	PXB-GR05-1	10	145
	PXB-GR05-2	10	146
	PXB-GN	8	146

LARGE UTILITY HOOKS

Picture	Item Name	Load Capacity (kgf)	Page
	XL-CUJ STAINLESS 303 STEEL	14～19	123
	4H STAINLESS 304 STEEL	15.3～30.6	124
	5H STAINLESS 304 STEEL	30.6	124
	XL-SF STAINLESS 304 STEEL	38	125
	XL-SB STAINLESS 304 STEEL	Top Hook: 20 Bottom Hook: 38	125
	JFW STAINLESS 303 STEEL	10	125
	JF45M, 70M, 110M STAINLESS 303 STEEL	10～12	126
	JF50M, 80M, 120M STAINLESS 303 STEEL	12～22	126
	JFT180M, 260M STAINLESS 303 STEEL	10～15	127

Picture	Item Name	Load Capacity (kgf)	Page
	XL-CUF110TT, 170TT STAINLESS 303 STEEL	15～32	127

LATCH HOOKS

Picture	Item Name	Load Capacity (kgf)	Page
	EN-R100F STAINLESS 316 STEEL	60	119
	EN-R80-K STAINLESS 316 STEEL	20	119
	EN-R80 STAINLESS 316 STEEL	20	120
	EN-K STAINLESS 316 STEEL	20～60	120
	EN-E107 STAINLESS 316 STEEL	40	121
	JN-T100 STAINLESS 304 STEEL	40	122

SWING HOOKS

Picture	Item Name	Load Capacity (kgf)	Page
	EY-R STAINLESS 316 STEEL	500～1200	121
	JF-T45, JF-T70 STAINLESS 304 STEEL	10	122
	JF-T100 STAINLESS 303 STEEL	40	123
	DZ-270 STAINLESS 304 STEEL	3～8	130
	RF-D35 STAINLESS 304 STEEL	5.3～10.6	130
	XL-JSF40 STAINLESS 303 STEEL	50	130
	UJ STAINLESS 304 STEEL	6.7～8.9	131
	UC STAINLESS 304 STEEL	5.6～6.7	131
	RF-U50 STAINLESS 304 STEEL	6.1	131
	RF-50S STAINLESS 304 STEEL	3	131
	TK, TKF STAINLESS 304 STEEL	8～12	132
	TZ-360 STAINLESS 304 STEEL	3～6	132

RECESSED HOOKS

Picture	Item Name	Load Capacity (kgf)	Page
	NF-60, NF-60D	20～30	128
	NF-R64	20	129
	NF-50	—	129

MAGNETIC HOOKS

Picture	Item Name	Load Capacity (kgf)	Page
	MJ-30	1	141
	MJ-45	2	141

PANEL HANGERS

Picture	Item Name	Load Capacity (kgf)	Page
	SP STAINLESS 304 STEEL	10	139
	AP STAINLESS 304 STEEL	10	139
	AUH	30	139

TOWEL BARS

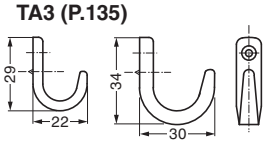
Picture	Item Name	Load Capacity (kgf)	Page
	ZL-3201 STAINLESS 316 STEEL	—	147
	ZL-3202 STAINLESS 316 STEEL	—	147
	ZL-3203 STAINLESS 316 STEEL	—	148
	ZL-3204 STAINLESS 316 STEEL	—	149
	ZL-3205 STAINLESS 316 STEEL	—	149
	KB-T STAINLESS 303 STEEL	—	150
	SWT-240	—	150

PAPER HOLDER

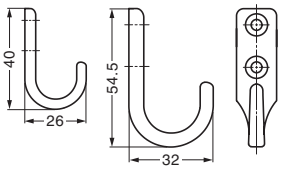
Picture	Item Name	Load Capacity (kgf)	Page
	ZL-3301 STAINLESS 316 STEEL	—	150

STAINLESS STEEL HOOK SERIES

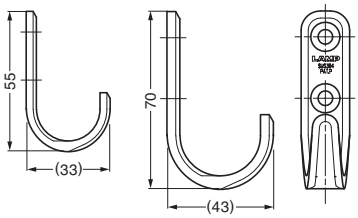
TA3 (P.135)



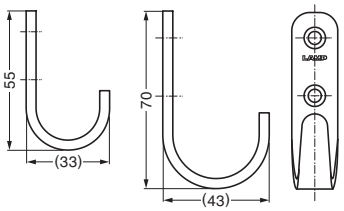
EL (P.135)



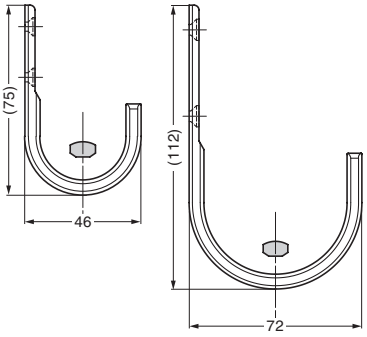
XL-HJT (P.136)



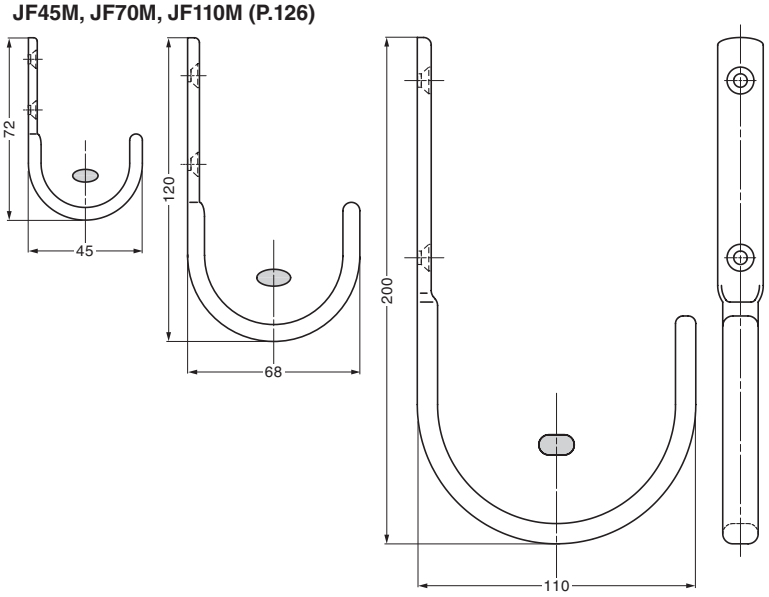
HJT (P.136)



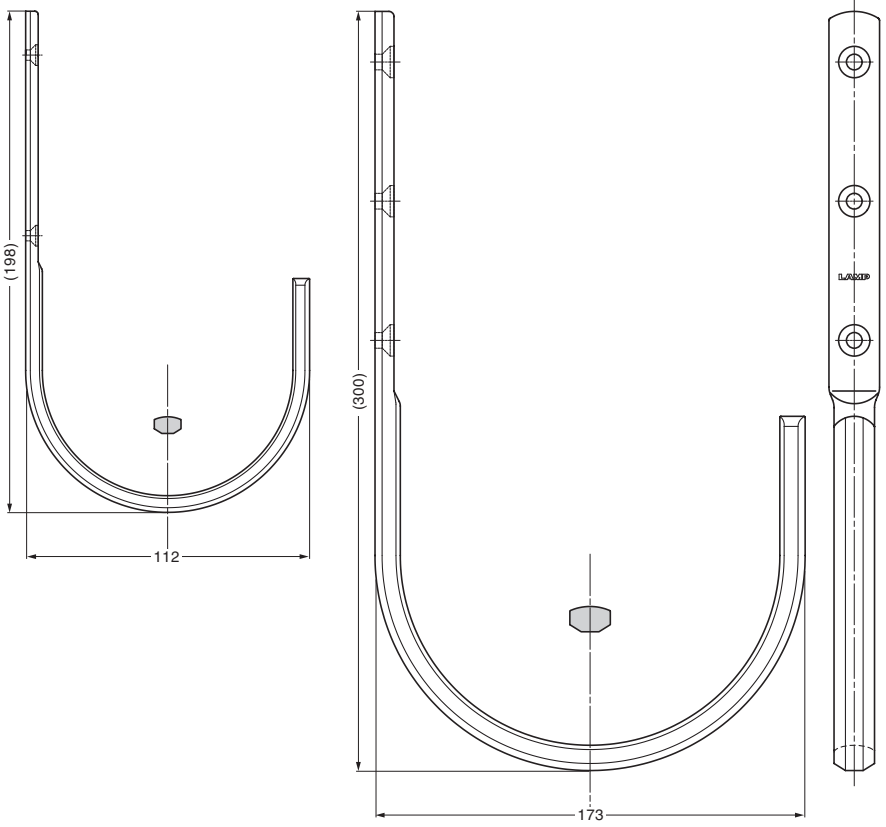
XL-CUJ (P.123)



JF45M, JF70M, JF110M (P.126)



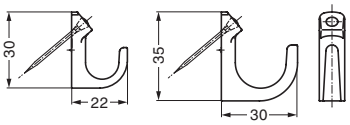
XL-CUF110TT, XL-CUF170TT (P.127)



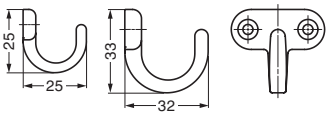
100 mm

STAINLESS STEEL HOOK SERIES

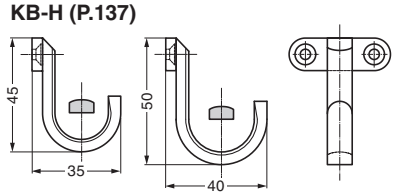
PF (P.135)



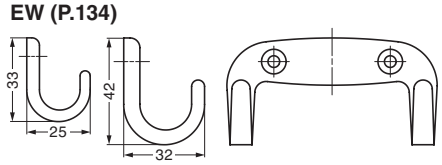
EP (P.135)



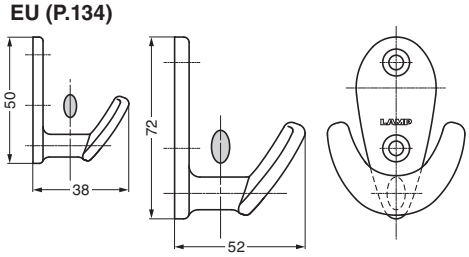
KB-H (P.137)



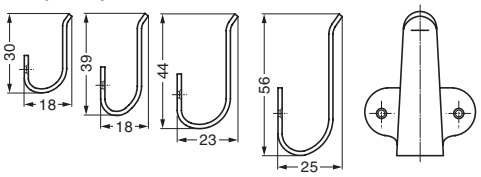
EW (P.134)



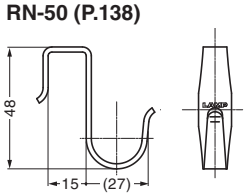
EU (P.134)



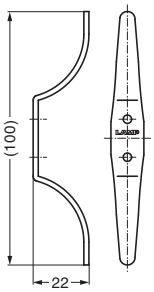
2H (P.138)



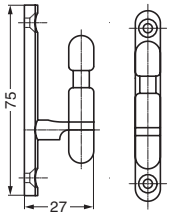
RN-50 (P.138)



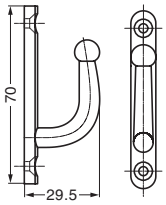
RB-102 (P.138)



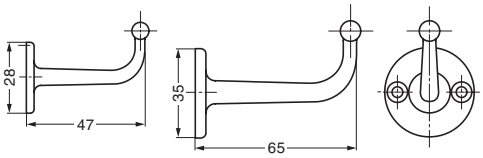
KB-F-75 (P.141)



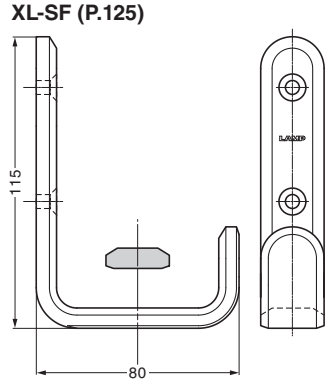
KB-F-70 (P.141)



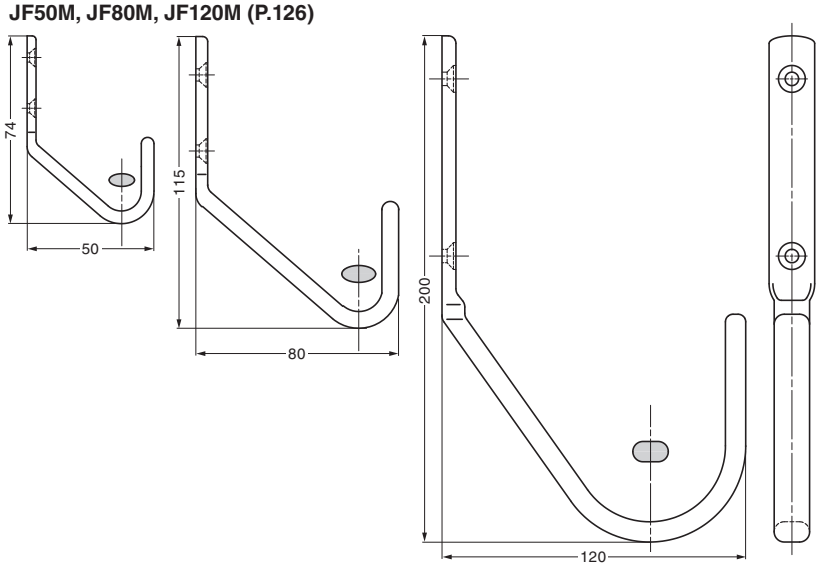
FC (P.132)



XL-SF (P.125)



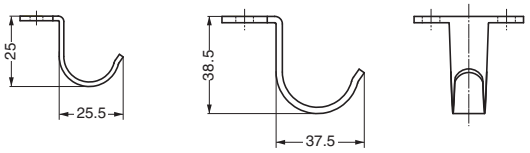
JF50M, JF80M, JF120M (P.126)



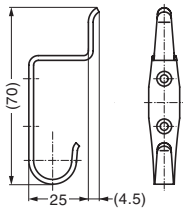
100 mm

STAINLESS STEEL HOOK SERIES

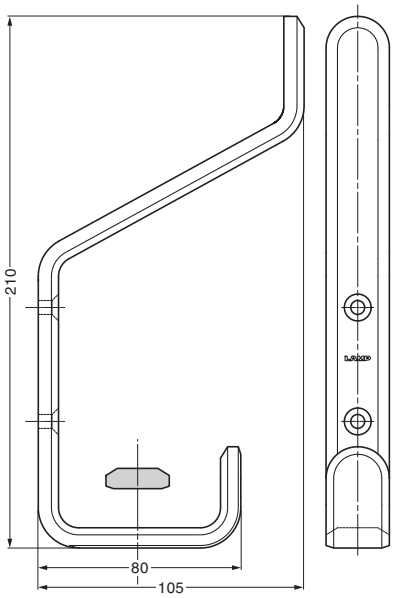
HJU (P.137)



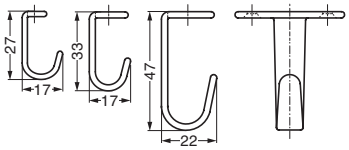
RI-074 (P.138)



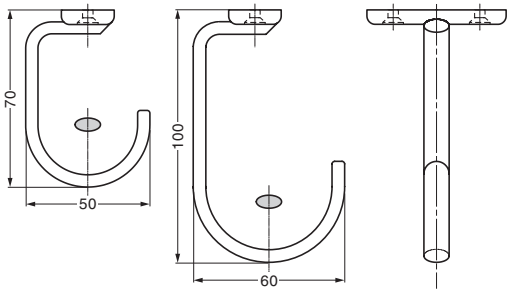
XL-SB (P.125)



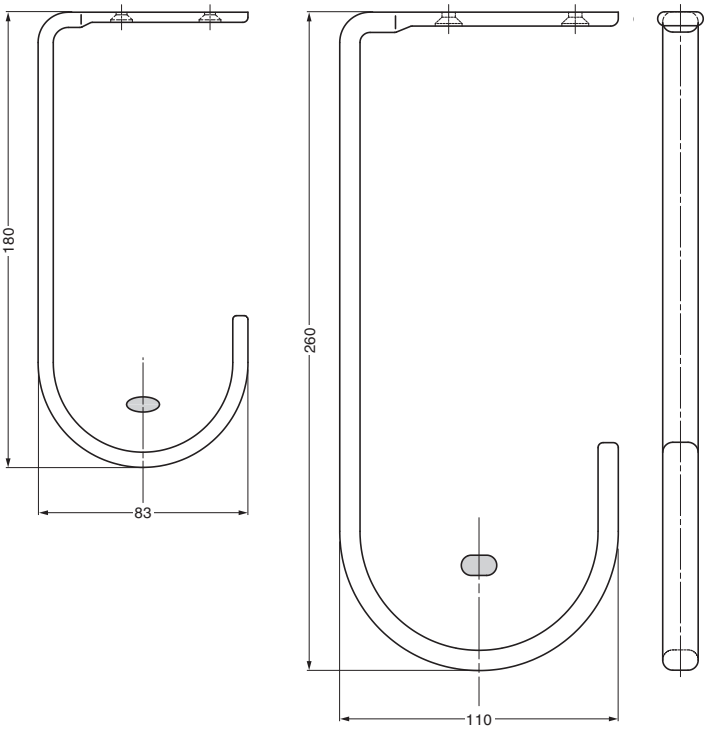
HJ (P.136)



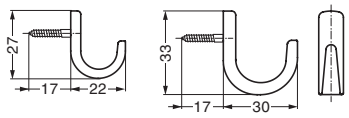
DS-H (P.137)



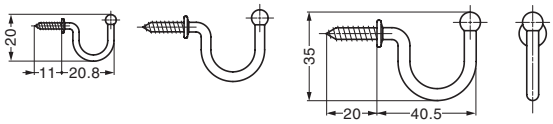
JFT180M, JFT260M (P.127)



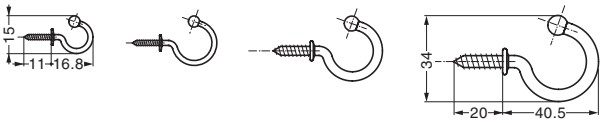
CS, CL (P.134)



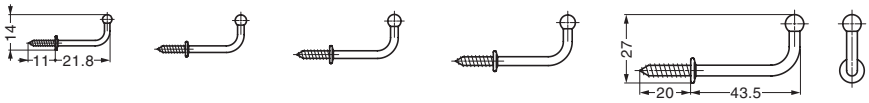
TF (P.133)



TL (P.133)



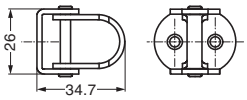
TY (P.133)



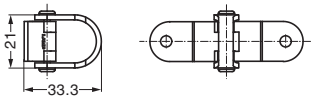
100 mm

STAINLESS STEEL HOOK SERIES

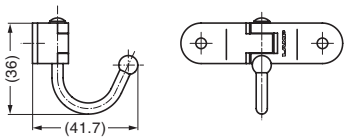
RF-D35 (P.130)



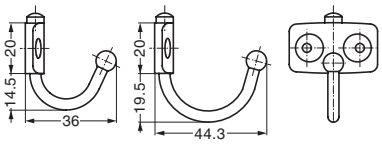
DZ-270 (P.130)



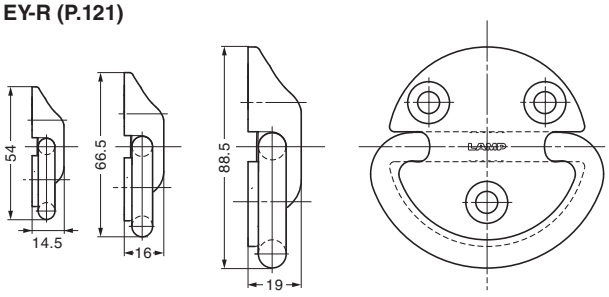
TZ-360 (P.132)



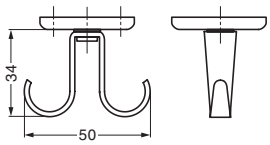
TK, TKF (P.132)



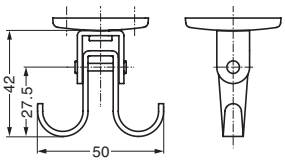
EY-R (P.121)



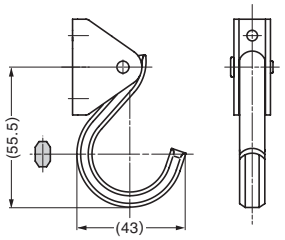
RF-50S (P.131)



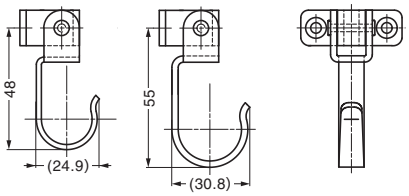
RF-U50 (P.131)



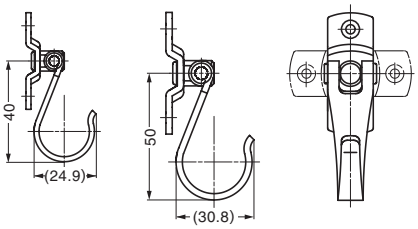
XL-JSF40 (P.130)



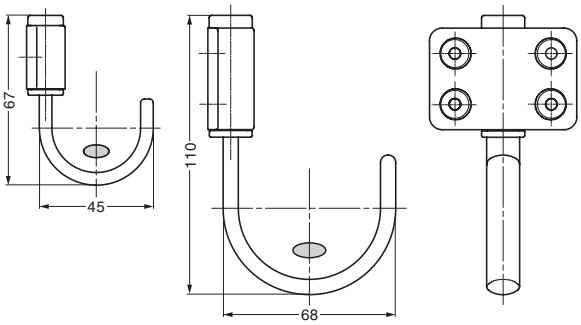
UC (P.131)



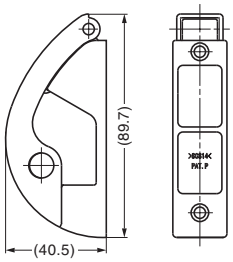
UJ (P.131)



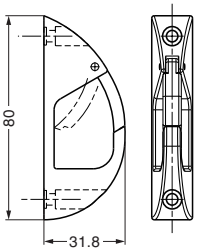
JF-T (P.122)



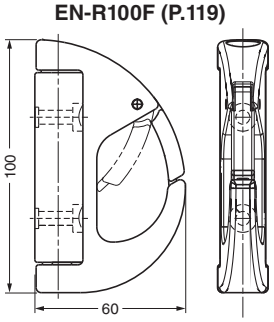
EN-R80-K (P.119)



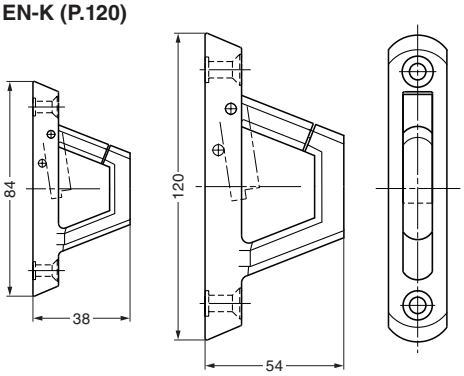
EN-R80 (P.120)



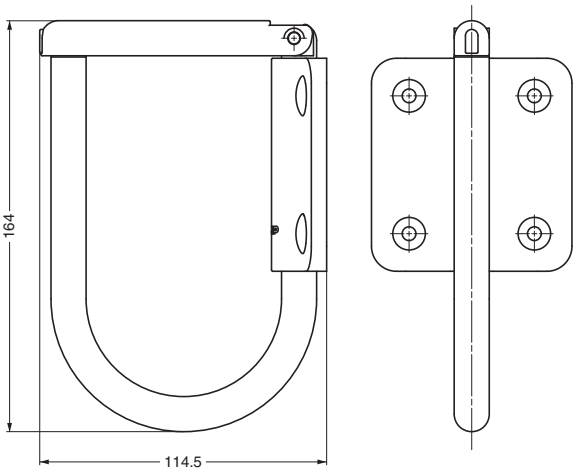
EN-R100F (P.119)



EN-K (P.120)



JN-T110 (P.122)



100 mm

STAINLESS STEEL HOOK

ZL-2101

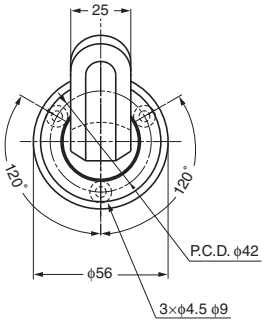


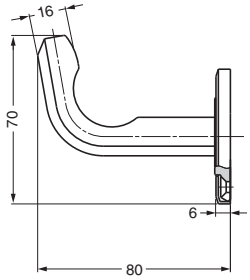
■Features

Superior finish of Mirror/Satin.

■Parts Included

- Countersunk head wood screw 4.1 × 32 (SUS)
- Plug





Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box
110-020-400	ZL-2101	Stainless Steel (SUS316)	Zwei L Finish	359 N	37 kgf	413 g	1 pc

STAINLESS STEEL HOOK

ZL-2102

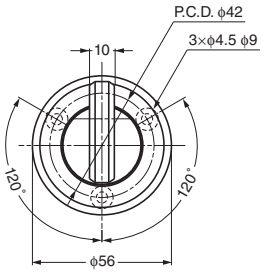


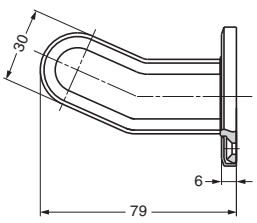
■Features

Superior finish of Mirror/Satin.

■Parts Included

- Countersunk head wood screw 4.1 × 32 (SUS)
- Plug





Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box
110-020-401	ZL-2102	Stainless Steel (SUS316)	Zwei L Finish	294 N	30 kgf	450 g	1 pc

STAINLESS STEEL HOOK

ZL-2104

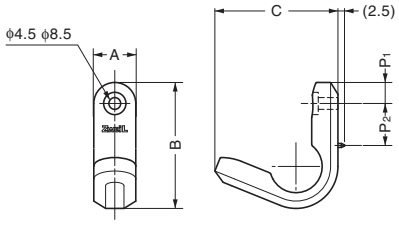


■Features

Superior finish of Mirror/Satin.

■Parts Included

- Pin
- Countersunk head wood screw 4.1 × 32 (SUS)
- Plug



Item Code	Item Name	Material	Finish	A	B	C	P_1	P_2	Load Capacity		Weight	Box
110-022-199	ZL-2104-10	Stainless Steel (SUS316)	Zwei L Finish	10	29	29	5	7	160 N	16.3 kgf	63 g	1 pc
110-022-200	ZL-2104-16	Stainless Steel (SUS316)	Zwei L Finish	16	47	47	8	10	475 N	48.4 kgf	114 g	1 pc

STAINLESS STEEL HOOK

ZL-2105

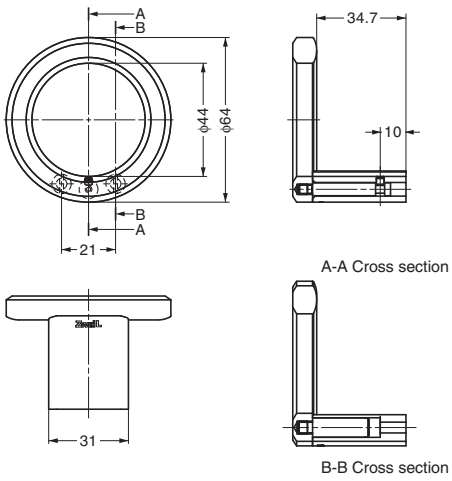


■Features

Superior finish of Mirror/Satin.

■Parts Included

- Pan head tapping screw 4×50 (SUS)
- Anchor plug (for wood screw 4.1 ϕ6 mm hole)
- Hex key



Item Code	Item Name	Material	Finish	Weight	Box
110-022-198	ZL-2105	Stainless Steel (SUS316)	Zwei L Finish	271 g	1 pc

STAINLESS STEEL HOOK

ZL-2103

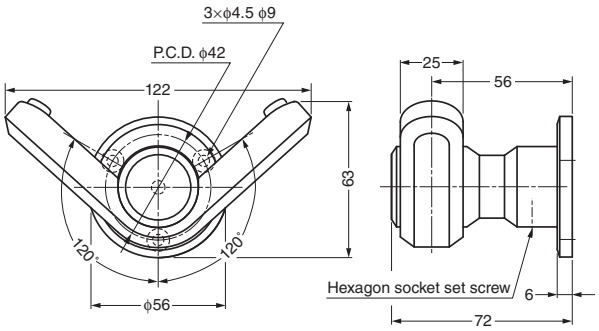


■Features

Superior finish of Mirror/Satin.

■Parts Included

- Countersunk head wood screw 4.1 × 32 (SUS)
- Plug
- Hex key



Item Code	Item Name	Material	Finish	Weight	Box
110-020-412	ZL-2103	Stainless Steel (SUS316)	Zwei L Finish	841 g	1 pc

STAINLESS STEEL HOOK

ZL-3401



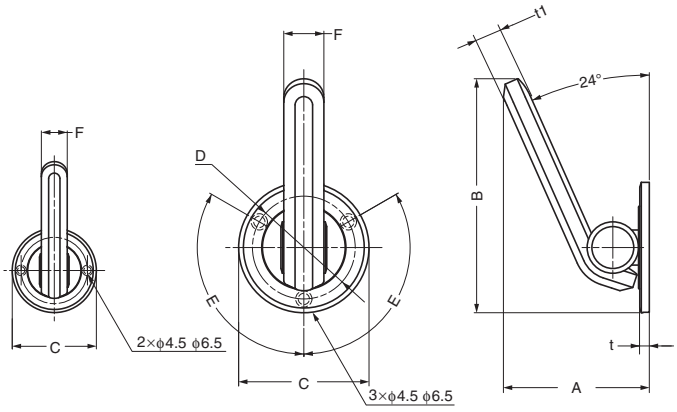
ZL-3401-10 ZL-3401-16 ZL-3401-25

■Features

Superior finish of Mirror/Satin.

■Parts Included

- Countersunk head tapping screw 4×30 (SUS)
- Anchor plug (for wood screw 4.1 ϕ6 mm hole)



ZL-3401-10

ZL-3401-16
ZL-3401-25

Item Code	Item Name	Material	Finish	A	B	C	D	E	F	t	t_1	Load Capacity		Weight	Box
110-021-835	ZL-3401-10	Stainless Steel (SUS316)	Zwei L Finish	36.7	60	37	24.5	90°	10	3.8	6	200 N	20.4 kgf	104 g	1 pc
110-021-836	ZL-3401-16	Stainless Steel (SUS316)	Zwei L Finish	58	93	52	41	120°	16	3.8	10	300 N	30.6 kgf	280 g	1 pc
110-021-837	ZL-3401-25	Stainless Steel (SUS316)	Zwei L Finish	91	145	80	65		25	6	16	400 N	40.8 kgf	909 g	1 pc

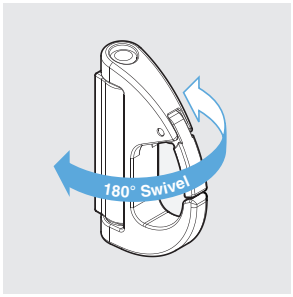
LATCH HOOK

STAINLESS 316 STEEL STAINLESS

EN-R100F





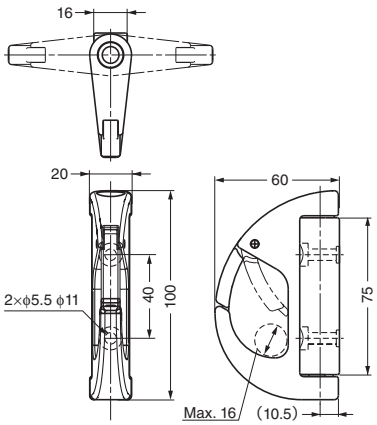


■Features

- Clip to prevent hooked items from falling off.
- Suitable for exterior use. (e.g. marine, housing, shops and leashes for pets)
- Swivels 180 degrees.
- Hook has constant torque when swivelling.

■Parts Included

Binding head tapping screw 5×30 (SUS)



Item Code	Item Name	Material	Finish	Applicable Rope Dia.	Load Capacity		Weight	Box	Carton
110-018-675	EN-R100F	Stainless Steel (SCS14)	Mirror	Max. ϕ16	588 N	60 kgf	350 g	10 pcs	50 pcs

※SCS14 is equivalent of SUS316.

LATCH HOOK

TEST METHOD 4 STAINLESS 316 STEEL STAINLESS

EN-R80-K





■Features

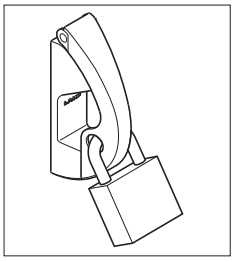
- Slim design allows mounting in narrow spaces.
- Suitable for exterior use. (e.g. marine, housing, shops and leashes for pets)
- With a padlock hole.

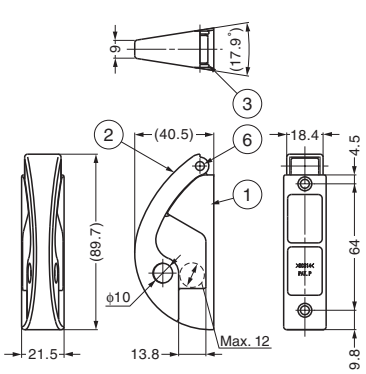
■Parts Included

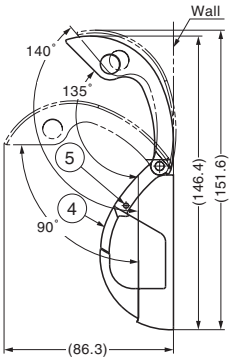
Recessed head tapping screw 4×25 (SUS)

■Recommended Padlock

PWL-30, PWL30-B (P.354)







No.	Part Name	Material	Finish
①	Body	Stainless Steel (SCS14)	Mirror
②	Cover	Stainless Steel (SUS316)	Mirror
③	O-ring	Ethylene Propylene Rubber (EPDM)	Black
④	Lever	Stainless Steel (SCS14)	Mirror
⑤	Shaft	Stainless Steel (SUS316)	Plain
⑥	Axis	Stainless Steel (SUS316)	Plain

※SCS14 is equivalent of SUS316.

Item Code	Item Name	Applicable Rope Dia.	Load Capacity		Weight	Box	Carton
110-022-201	EN-R80-K	Max. ϕ12	196 N	20 kgf	180 g	10 pcs	60 pcs

LATCH HOOK

TEST METHOD 4 | STAINLESS 316 STEEL | STAINLESS

EN-R80





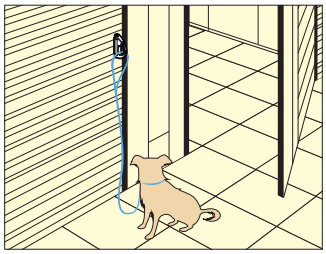
■Features

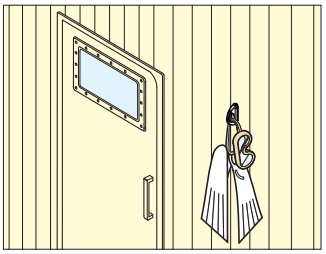
- Clip to prevent hooked items from falling off.
- Suitable for exterior use. (e.g. marine, housing, shops and leashes for pets)
- Slim design allows mounting in narrow spaces.

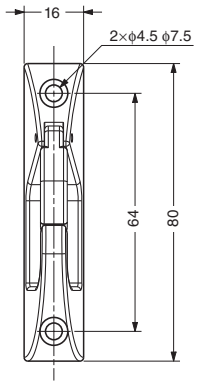
■Parts Included

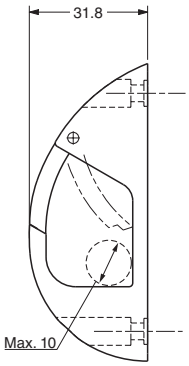
Pan head tapping screw 4×25 (SUS)

■Application Example









Item Code	Item Name	Material	Finish	Applicable Rope Dia.	Load Capacity		Weight	Box	Carton
110-020-025	EN-R80	Stainless Steel (SCS14)	Mirror	Max. ϕ10	196 N	20 kgf	85 g	10 pcs	120 pcs

※SCS14 is equivalent of SUS316.

LATCH HOOK

TEST METHOD 4 | STAINLESS 316 STEEL | STAINLESS

EN-K





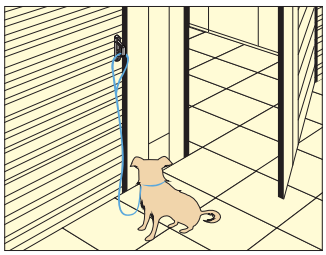
■Features

- Clip to prevent hooked items from falling off.
- Suitable for exterior use. (e.g. marine, housing, shops and leashes for pets)
- Slim design allows mounting in narrow spaces.

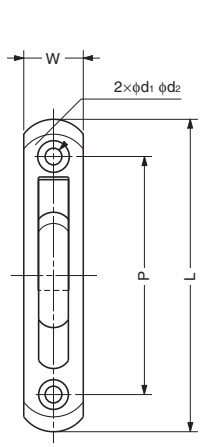
■Parts Included

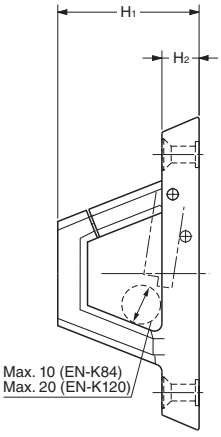
Countersunk head tapping screw 4×25 (SUS)

■Application Example









Item Code	Item Name	Material	Finish	L	P	H_1	H_2	W	d_1	d_2	Applicable Rope Dia.	Load Capacity		Weight	Box	Carton
110-020-026	EN-K 84	Stainless Steel (SCS14)	Mirror	84	64	38	10	16	4.5	8.5	Max. ϕ10	196 N	20 kgf	92 g	10 pcs	120 pcs
110-010-109	EN-K120	Stainless Steel (SCS14)	Mirror	120	96	54	12	22	5.4	10.5	Max. ϕ20	588 N	60 kgf	280 g	10 pcs	60 pcs

※SCS14 is equivalent of SUS316.

LATCH HOOK

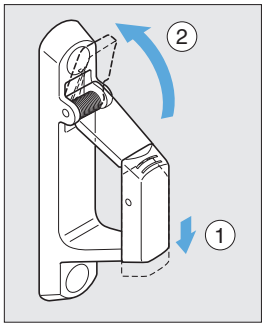
TEST METHOD 4 | STAINLESS 316 STEEL | STAINLESS

EN-E107





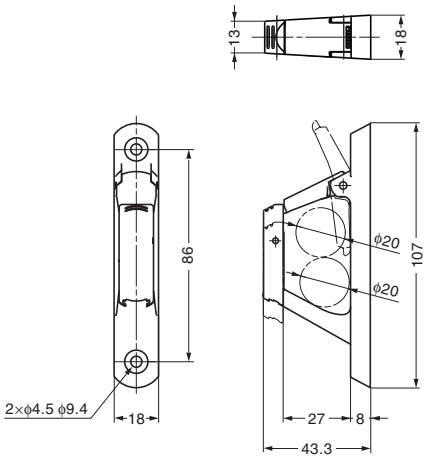




■Features
- Clip to prevent hooked items from falling off.
- One push release for wide opening.

■Parts Included

Countersunk head tapping screw 4x25 (SUS304)



Item Code	Item Name	Material	Finish	Applicable Rope Dia.	Load Capacity		Weight	Box	Carton
110-028-722	EN-E107	Stainless Steel (SCS14)	Mirror	ϕ20×2	392 N	40 kgf	131 g	10 pcs	60 pcs

※SCS14 is equivalent of SUS316.

HEAVY DUTY FOLDING PAD EYE

TEST METHOD 2 | STAINLESS 316 STEEL | STAINLESS

EY-R

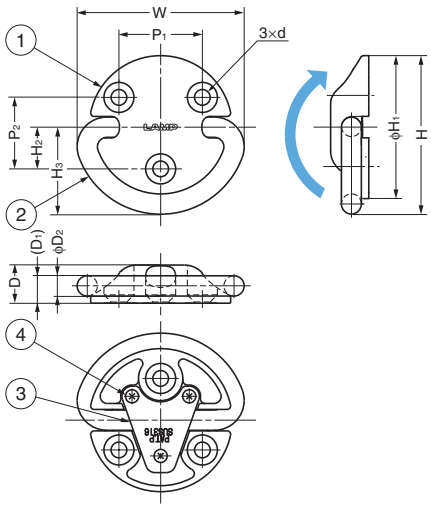


■Features
- Arm can be folded for safety.
- Arm has constant torque to prevent unwanted movement.
- Ideal for harsh and high corrosion environment.

■Application

Marine furniture or offshore facilities.

■Parts Included
- EY-R50：
  Countersunk head screw M5×16 (SUS)
- EY-R60：
  Countersunk head screw M6×16 (SUS)
- EY-R80：
  Countersunk head screw M8×16 (SUS)



No.	Part Name	Material	Finish
①	Body	Stainless Steel (SCS14)※	Mirror
②	Arm	Stainless Steel (1)	Mirror
③	Back Plate	Stainless Steel (SUS304-CSP)	Plain
④	Pan Head Tapping Screw M3×5	Stainless Steel (SUS316)	—

※SCS14 is equivalent SUS316.

(1) High strength stainless steel with corrosion resistance similar to SUS304.

Item Code	Item Name	W	H	H1	H2	H3	D	D1	D2	P1	P2	d	Load Capacity		Weight	Box	Carton
110-012-542	EY-R50	56.5	54	48	13	30	14.5	10.5	7.5	28	24	ϕ5.5 ϕ10.4	4900 N	500 kgf	116 g	10 pcs	120 pcs
110-012-543	EY-R60	70	66.5	60	17.5	36.5	16	11.5	8.5	35	30	ϕ6.6 ϕ12.6	7840 N	800 kgf	202 g	10 pcs	60 pcs
110-012-544	EY-R80	94	88.5	80	23	48.5	19	14	11	45	40	ϕ9 ϕ17.3	11760 N	1200 kgf	431 g	5 pcs	30 pcs

LARGE LATCH HOOK

JN-T100



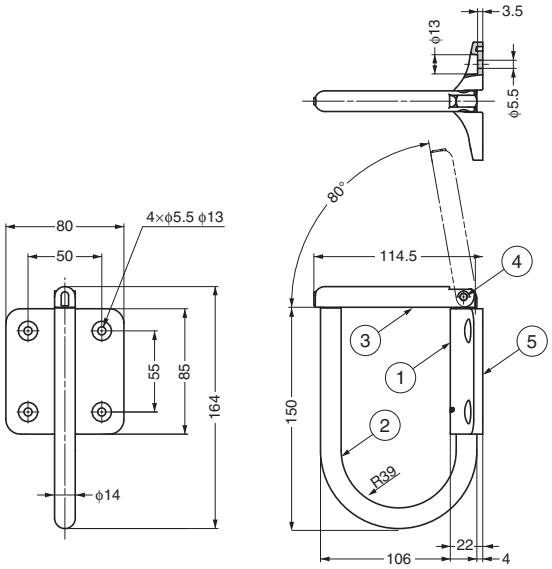


■Features

- Swivels 180˚.
- Hook has constant torque when swivelling.
- Clip to prevent hooked items from falling off.

■Parts Included

Binding head tapping screw 5×30 (SUS)



No.	Part Name	Material	Finish
①	Strike	Stainless Steel (SCS13)	Mirror
②	Hook	Stainless Steel (SUS303)	Mirror
③	Arm	Stainless Steel (SCS13)	Mirror
④	Shaft	Stainless Steel (SUS303)	Plain
⑤	Back Plate	Stainless Steel (SUS304)	Plain

※SCS13 is equivalent of SUS304.

Item Code	Item Name	Load Capacity		Weight	Box	Carton
110-022-111	JN-T100	392 N	40 kgf	800 g	5 pcs	20 pcs

SWING HOOK (W/FRICTION)

JF-T45, JF-T70

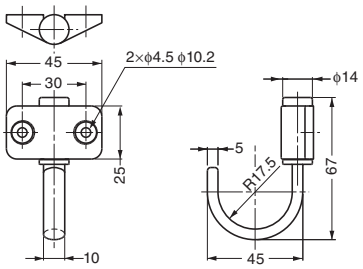


■Features

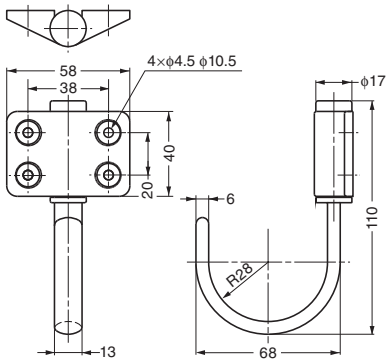
- Swivels 180˚.
- Hook has constant torque when swivelling.

■Parts Included

Truss tapping screw 4×20 (SUS)



JF-T45



JF-T70

Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box	Carton
110-020-083	JF-T45	Stainless Steel (SCS13)	Mirror	98 N	10 kgf	90 g	10 pcs	120 pcs
110-020-084	JF-T70	Stainless Steel (SCS13)	Mirror	98 N	10 kgf	225 g	10 pcs	60 pcs

※SCS13 is equivalent of SUS304.

SWING HOOK (W/FRICTION)

TEST METHOD 4 | STAINLESS 303 STEEL | STAINLESS

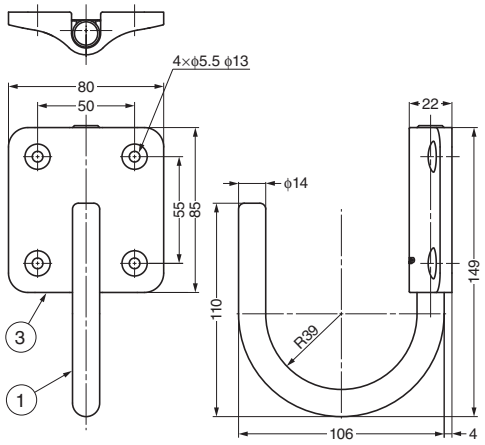
JF-T100



■Features
- Swivels 180°.
- Hook has constant torque when swivelling.

■Parts Included

Binding head tapping screw 5×30 (SUS)



No.	Part Name	Material	Finish/Colour
①	Hook	Stainless Steel (SUS304)/Stainless Steel (SUS303)	Mirror
②	Bracket	Polyacetal (POM)	Black
③	Strike	Stainless Steel (SCS13)	Mirror

※SCS13 is equivalent of SUS304.

Item Code	Item Name	Load Capacity		Weight	Box	Carton
110-032-414	JF-T100	392 N	40 kgf	638 g	5 pcs	20 pcs

LARGE UTILITY HOOK

TEST METHOD 4 | STAINLESS 303 STEEL | STAINLESS

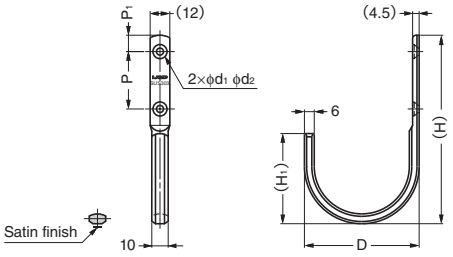
XL-CUJ



■Features

Bevelled finish with mirror and satin.

■Parts Included
- XL-CUJ45TT: Raised countersunk head tapping screw 3.5×20 (SUS)
- XL-CUJ70TT: Raised countersunk head tapping screw 4×20 (SUS)



Item Code	Item Name	Material	Finish	D	H	H1	P	P1	d1	d2	Load Capacity		Weight	Box	Carton
110-020-012	XL-CUJ45TT	Stainless Steel (SUS303)	Mirror and Satin Combination	46	75	36	20	8.5	3.8	7.2	186.2 N	19 kgf	54 g	20 pcs	120 pcs
110-020-013	XL-CUJ70TT	Stainless Steel (SUS303)	Mirror and Satin Combination	72	112	56	35	10	4.3	8.6	137.2 N	14 kgf	84 g	10 pcs	60 pcs

LARGE UTILITY HOOK

TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS | 4H

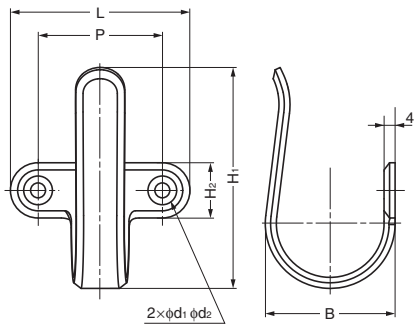


■Features

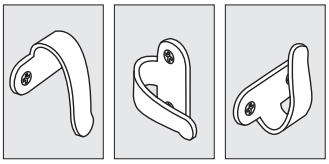
- Chamfered design.
- Two types of finishes available.

■Parts Included

- 4H-40, 4H-55：Raised countersunk head wood screw 4.1×16 (SUS)
- 4H-65：Raised countersunk head wood screw 5.1×20 (SUS)



■Application Example



Type	Finish	Material
M	Mirror	Stainless Steel (SUS304)
TT	Mirror and Satin	Stainless Steel (SUS304)

Item Code	Item Name	L	P	H₁	H₂	B	d₁	d₂	Load Capacity		Weight	Box	Carton
110-028-559	4H-40M	40	27	47	13	30	4.4	8.4	300 N	30.6 kgf	44 g	20 pcs	200 pcs
110-028-560	4H-40TT	40	27	47	13	30	4.4	8.4				20 pcs	200 pcs
110-028-561	4H-55M	55	38	65	17	40	4.4	8.4	150 N	15.3 kgf	81 g	15 pcs	150 pcs
110-028-562	4H-55TT	55	38	65	17	40	4.4	8.4				15 pcs	150 pcs
110-028-563	4H-65M	65	45	80	20	47	5.4	10.4	180 N	18.4 kgf	120 g	10 pcs	100 pcs
110-028-564	4H-65TT	65	45	80	20	47	5.4	10.4				10 pcs	100 pcs

LARGE UTILITY HOOK

TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS | 5H

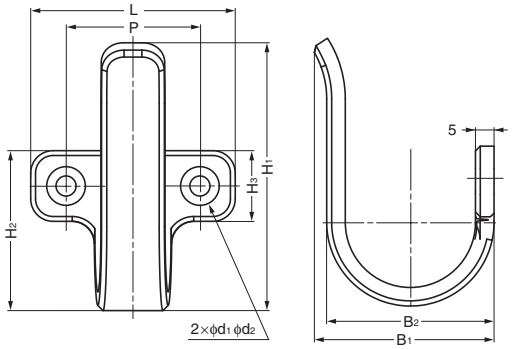


■Features

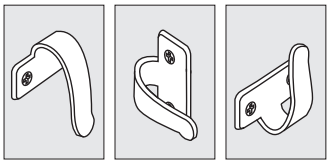
- Chamfered design.
- Two types of finishes available.

■Parts Included

- 5H-45：Raised countersunk head wood screw 4.1×20 (SUS)
- 5H-60：Raised countersunk head wood screw 4.1×25 (SUS)
- 5H-85：Raised countersunk head wood screw 5.8×25 (SUS)



■Application Example



Type	Finish	Material
M	Mirror	Stainless Steel (SUS304)
TT	Mirror and Satin	Stainless Steel (SUS304)

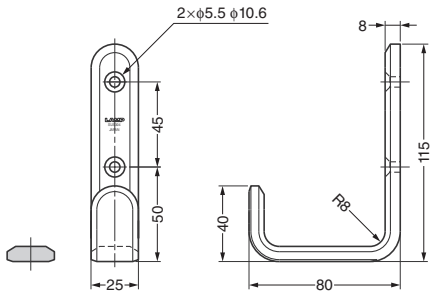
Item Code	Item Name	L	P	H₁	H₂	H₃	B₁	B₂	d₁	d₂	Load Capacity		Weight	Box	Carton
110-028-553	5H-45M	45	30	56	34.5	15	37.9	32.5	4.5	9	300 N	30.6 kgf	74 g	15 pcs	150 pcs
110-028-554	5H-45TT	45	30	56	34.5	15	37.9	32.5	4.5	9				15 pcs	150 pcs
110-028-555	5H-60M	60	40	72.7	43.4	19	47.7	43.5	5.5	10.5			133 g	10 pcs	100 pcs
110-028-556	5H-60TT	60	40	72.7	43.4	19	47.7	43.5	5.5	10.5				10 pcs	100 pcs
110-028-557	5H-85M	85	60	94	60.6	25	66.7	58.2	6.5	12.4			238 g	5 pcs	50 pcs
110-028-558	5H-85TT	85	60	94	60.6	25	66.7	58.2	6.5	12.4				5 pcs	50 pcs

LARGE UTILITY HOOK

TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

XL-SF





■Parts Included

Raised countersunk head tapping screw 5×30 (SUS)

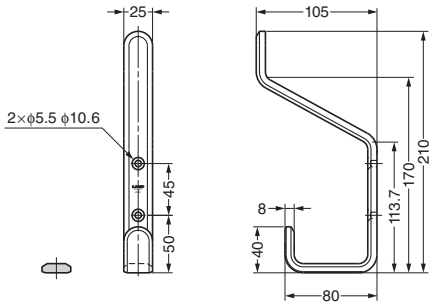
Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box	Carton
110-020-142	XL-SF-115-S	Stainless Steel (SUS304)	Satin	372 N	38 kgf	280 g	4 pcs	24 pcs
110-020-143	XL-SF-115-M	Stainless Steel (SUS304)	Mirror	372 N	38 kgf	280 g	4 pcs	24 pcs

LARGE UTILITY HOOK

TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

XL-SB





■Parts Included

Raised countersunk head tapping screw 5×30 (SUS)

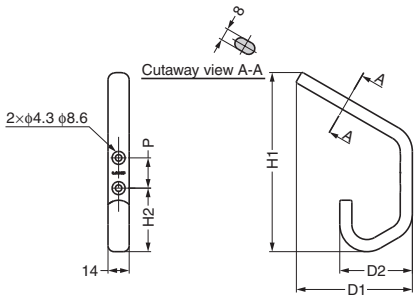
Item Code	Item Name	Material	Finish	Load Capacity				Weight	Box	Carton
				Top Hook		Bottom Hook				
110-020-144	XL-SB-210-S	Stainless Steel (SUS304)	Satin	196 N	20 kgf	372.4 N	38 kgf	500 g	2 pcs	12 pcs
110-020-145	XL-SB-210-M	Stainless Steel (SUS304)	Mirror	196 N	20 kgf	372.4 N	38 kgf	500 g	2 pcs	12 pcs

LARGE UTILITY HOOK

TEST METHOD 4 | STAINLESS 303 STEEL | STAINLESS

JFW





■Parts Included

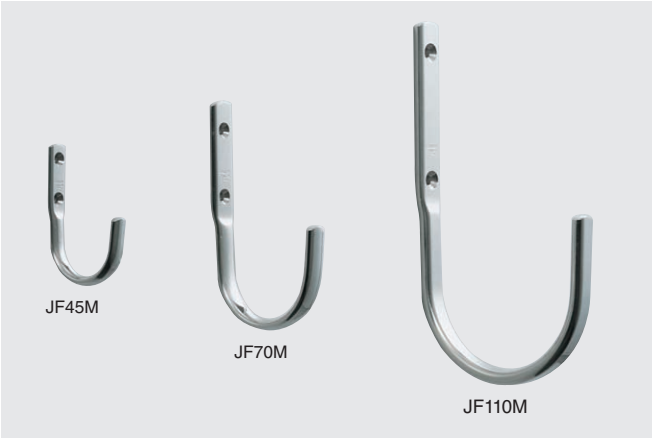
Countersunk head tapping screw 4×32 (SUS)

Item Code	Item Name	Material	Finish	H1	H2	D1	D2	P	Load Capacity		Weight	Box	Carton
110-033-760	JFW-80	Stainless Steel (SUS303)	Mirror	118.4	42	76.7	48	20	98 N	10 kgf	157 g	5 pcs	40 pcs
110-033-761	JFW-90	Stainless Steel (SUS303)	Mirror	138.5	46	87.6	56	26			186 g	5 pcs	40 pcs

LARGE UTILITY HOOK

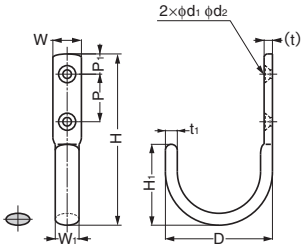
TEST METHOD 4 | STAINLESS 303 STEEL | STAINLESS

JF45M, JF70M, JF110M

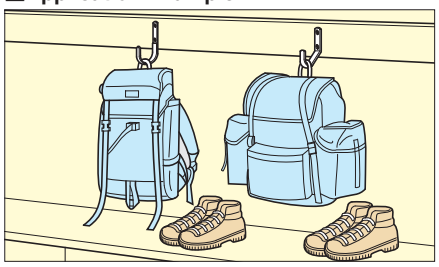


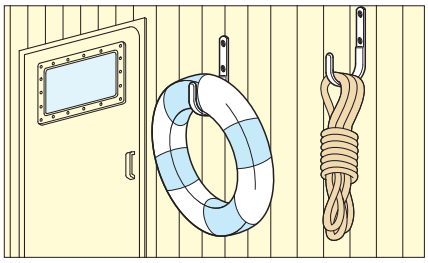
■Parts Included

- JF45M：Raised countersunk head wood screw 3.5×16 (SUS)
- JF70M：Raised countersunk head wood screw 4.1×20 (SUS)
- JF110M：Raised countersunk head wood screw 5.1×32 (SUS)



■Application Example



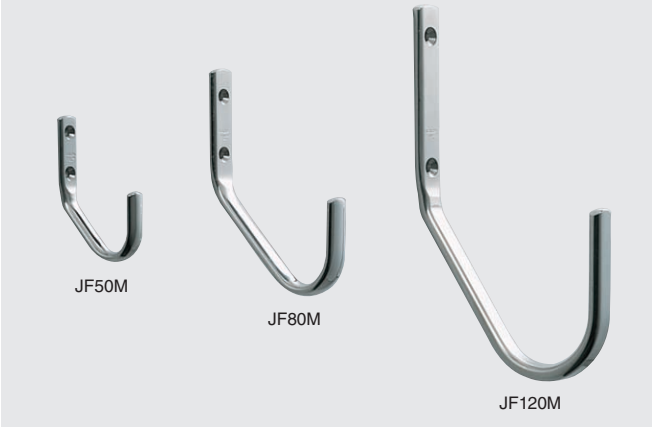


Item Code	Item Name	Material	Finish	D	W	W₁	H	H₁	P	P₁	t	t₁	d₁	d₂	Load Capacity		Weight	Box	Carton
110-020-071	JF45M	Stainless Steel (SUS303)	Mirror	45	12	10	72	34	20	8.5	3.5	5	3.8	7.2	98 N	10 kgf	40 g	20 pcs	120 pcs
110-020-043	JF70M	Stainless Steel (SUS303)	Mirror	68	16	13	120	55	35	15	4	6	4.3	8.6	98 N	10 kgf	95 g	6 pcs	36 pcs
110-020-073	JF110M	Stainless Steel (SUS303)	Mirror	110	18	14	200	90	70	17	5.5	8	5.3	10.6	118 N	12 kgf	270 g	5 pcs	30 pcs

LARGE UTILITY HOOK

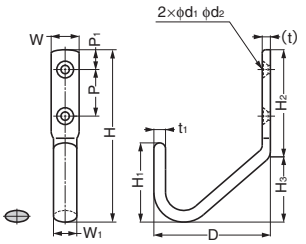
TEST METHOD 4 | STAINLESS 303 STEEL | STAINLESS

JF50M, JF80M, JF120M

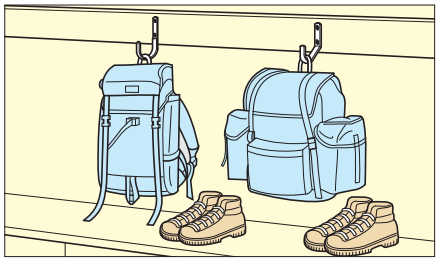


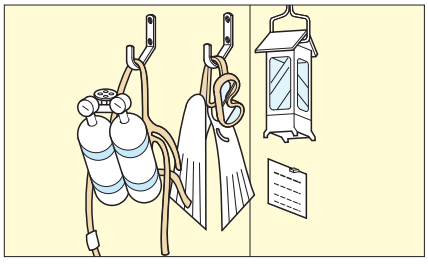
■Parts Included

- JF50M：Raised countersunk head wood screw 3.5×16 (SUS)
- JF80M：Raised countersunk head wood screw 4.1×20 (SUS)
- JF120M：Raised countersunk head wood screw 5.1×32 (SUS)



■Application Example



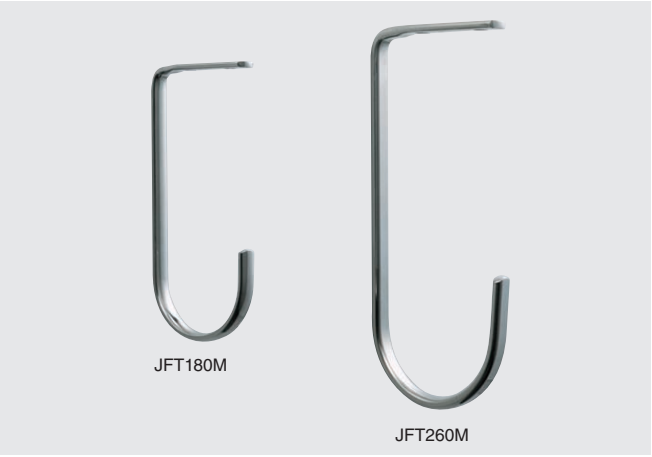


Item Code	Item Name	Material	Finish	D	W	W₁	H	H₁	H₂	H₃	P	P₁	t	t₁	d₁	d₂	Load Capacity		Weight	Box	Carton
110-020-072	JF50M	Stainless Steel (SUS303)	Mirror	50	12	10	74	34	46	28	20	8.5	3.5	5	3.8	7.2	117.6 N	12 kgf	40 g	20 pcs	120 pcs
110-020-044	JF80M	Stainless Steel (SUS303)	Mirror	80	16	13	115	50	65	50	30	15	4	6	4.3	8.6	196 N	20 kgf	95 g	6 pcs	36 pcs
110-020-074	JF120M	Stainless Steel (SUS303)	Mirror	120	18	14	200	90	112	88	70	17	5.5	8	5.3	10.6	216 N	22 kgf	260 g	5 pcs	30 pcs

LARGE UTILITY HOOK

TEST METHOD 4 | STAINLESS 303 STEEL | STAINLESS

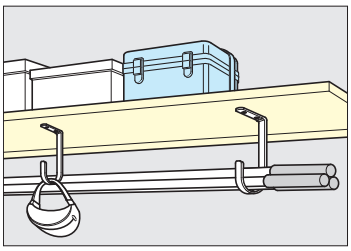
JFT180M, JFT260M

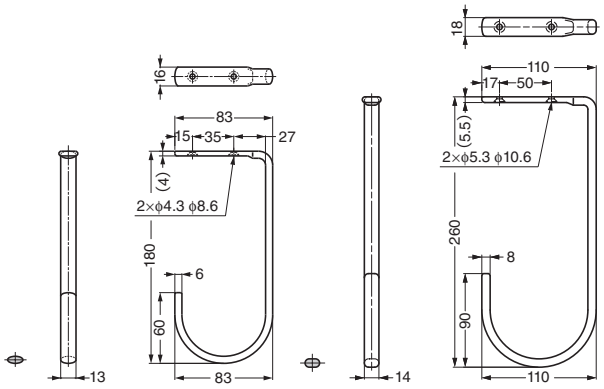


■Parts Included

- JFT180M : Countersunk head wood screw 4.5×25 (SUS)
- JFT260M : Countersunk head wood screw 5.1×38 (SUS)

■Application Example





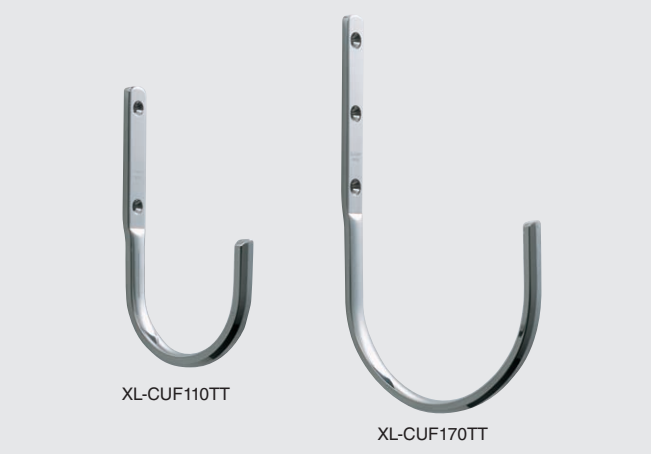
JFT180M　　JFT260M

Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box	Carton
110-020-080	JFT180M	Stainless Steel (SUS303)	Mirror	98 N	10 kgf	180 g	5 pcs	30 pcs
110-020-081	JFT260M	Stainless Steel (SUS303)	Mirror	147 N	15 kgf	380 g	5 pcs	30 pcs

LARGE UTILITY HOOK

TEST METHOD 4 | STAINLESS 303 STEEL | STAINLESS

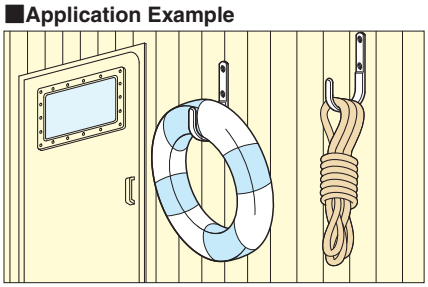
XL-CUF110TT, XL-CUF170TT

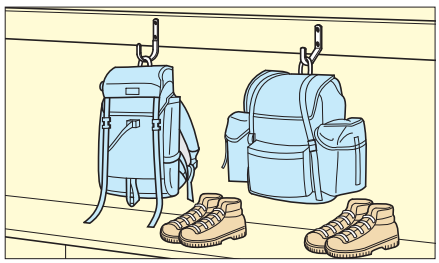


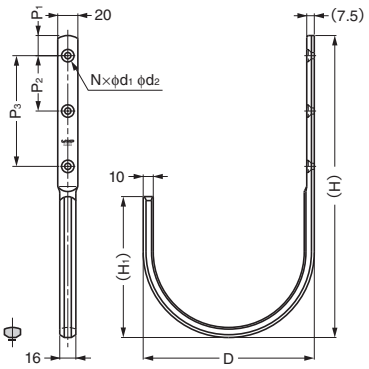
■Parts Included

- XL-CUF110TT : Countersunk head tapping screw 5×30 (SUS)
- XL-CUF170TT : Countersunk head tapping screw 6×30 (SUS)

■Application Example







Item Code	Item Name	Material	Finish	D	H	H1	P1	P2	P3	N	d1	d2	Load Capacity		Weight	Box	Carton
110-020-014	XL-CUF110TT	Stainless Steel (SUS303)	Mirror and Satin Combination	112	198	91	17	—	70	2	5.2	10.5	314 N	32 kgf	362 g	5 pcs	30 pcs
110-020-015	XL-CUF170TT	Stainless Steel (SUS303)	Mirror and Satin Combination	173	300	138.5	20	55	110	3	6.2	12.5	147 N	15 kgf	569 g	5 pcs	20 pcs

RECESSED HOOK

TEST METHOD 18

NF-60, NF-60D





■Features

- Hook is spring loaded to retract, 2 models available: Spring-loaded and Soft-closing.
- Clip to prevent hooked items from falling off.

■Remarks

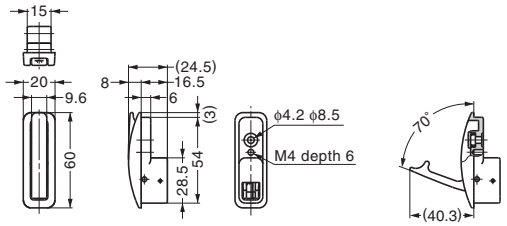
Please take off the cushion rubber when installing on a wooden panel.

■Options

NF-50: Bracket for sheet metal applications

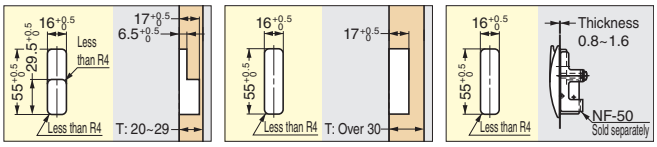
Video Link

■NF-60

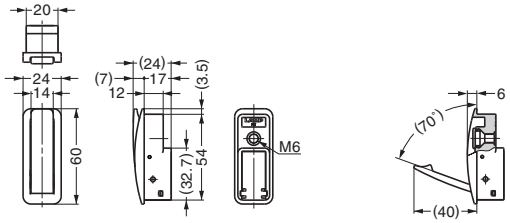


■NF-60 Cut Out Dimensions

●For wood (T: 20~29 mm) ●For wood (T: Over 30 mm) ●For sheet metal

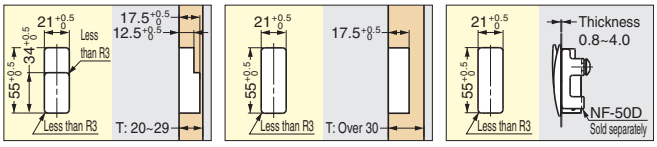


■NF-60D



■NF-60D Cut Out Dimensions

●For wood (T: 20~29 mm) ●For wood (T: Over 30 mm) ●For sheet metal



Item Code	Item Name	Damper	Bracket	Material	Finish	Load Capacity		Weight	Box	Carton
110-020-067	NF-60	Without	NF-50	Aluminium Alloy	Dark Grey	196 N	20 kgf	31 g	10 pcs	200 pcs
110-022-191	NF-60D-GR	With	NF-50D	Aluminium Alloy	Dark Grey	294 N	30 kgf	49 g	10 pcs	200 pcs
110-024-598	NF-60D-SL	With	NF-50D	Aluminium Alloy	Silver	294 N	30 kgf	49 g	10 pcs	200 pcs

RECESSED HOOK

TEST METHOD 4

NF-R64





■Features

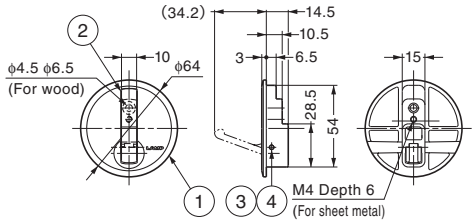
Hook is spring loaded to retract.

■Options

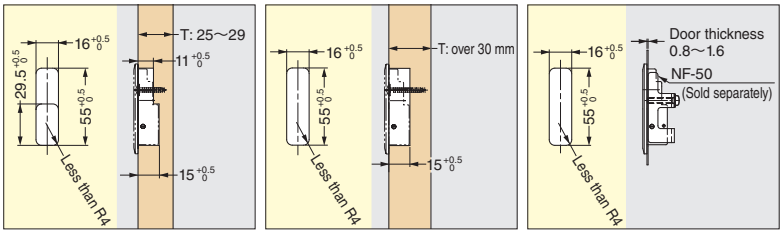
NF-50: Bracket for sheet metal applications

■Recommended Screw

- For wood (T: 25~29 mm) : Countersunk head tapping screw 4x19
- For wood (T: over 30 mm) : Countersunk head tapping screw 4x25



■For Wood (T: 25~29 mm) **■For Wood (T: Over 30 mm)** **■For Sheet Metal**



No.	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy	Pearl Chrome
②	Arm	Zinc Alloy	Pearl Chrome
③	Spring	Stainless Steel	Plain
④	Knurled Pin	Stainless Steel	Plain
—	Cushion Rubber	Rubber	Grey

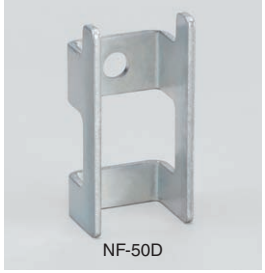
Item Code	Item Name	Load Capacity		Weight	Box	Carton
110-020-068	NF-R64	196 N	20 kgf	90 g	10 pcs	120 pcs

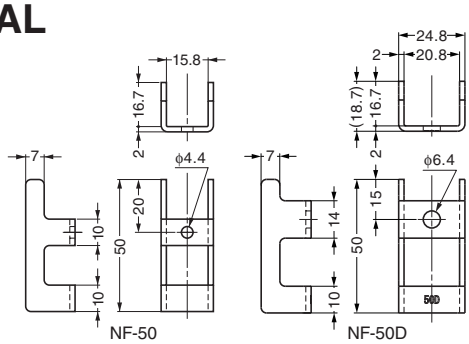
BRACKET FOR SHEET METAL

STEEL

NF-50


NF-50


NF-50D



NF-50 NF-50D

■Features

Bracket for sheet metal applications of NF-R64, NF-60 and NF-60D.

■Parts Included

NF-50 :

- M4×20 stainless steel screw for NF-60
- M4×14 stainless steel screw for NF-R64

NF-50D :

- M6×20 stainless steel screw

Item Code	Item Name	Hook	Material	Finish	Weight	Box	Carton
110-020-021	NF-50	NF-R64, NF-60	Steel	Yellow Zinc Chromate/Clear	22 g	20 pcs	400 pcs
110-024-599	NF-50D	NF-60D	Steel	Zinc Chromate	25 g	20 pcs	400 pcs

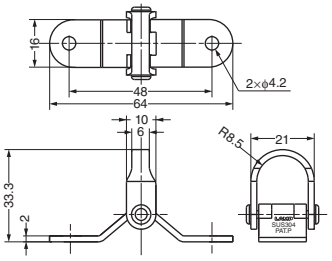
BUTTERFLY HOOK

DZ-270





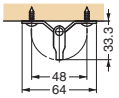




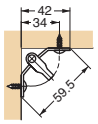
■Features
- Can be installed on flat surface, corner and edge.
- Both vertical and horizontal use possible.

■Parts Included
Truss head tapping screw 4×12

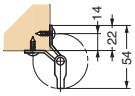
■Application Example



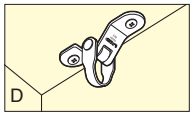
A (180˚)

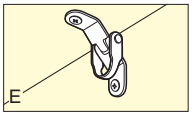


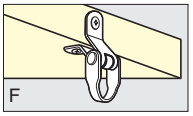
B (270˚)



C (90˚)







Load Capacity											
A		B		C		D		E		F	
59 N	6 kgf	55 N	5.6 kgf	29 N	3 kgf	78 N	8 kgf	59 N	6 kgf	78 N	8 kgf

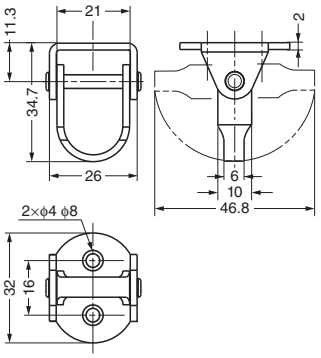
Item Code	Item Name	Material	Finish	Weight	Box	Carton
110-020-248	DZ-270	Stainless Steel (SUS304)	Polished	29 g	50 pcs	500 pcs

SWING HOOK

RF-D35







■Features
Can be installed on ceiling and wall.

■Parts Included
Countersunk head wood screw 3.5×16

Item Code	Item Name	Material	Finish	Load Capacity				Weight	Box	Carton
				A		B				
110-020-249	RF-D35	Stainless Steel (SUS304)	Mirror/Satin	52 N	5.3 kgf	104 N	10.6 kgf	27 g	50 pcs	400 pcs

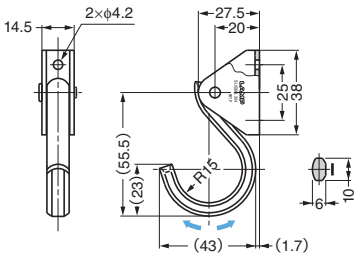
SWING HOOK

XL-JSF40



Ceiling mount





■Features
Vertical swivelling allows under mount applications.

■Parts Included
Binding head tapping screw 4×20 (SUS)

Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box	Carton
110-020-011	XL-JSF40TT	Hook：Stainless Steel (SUS303), Bracket：Stainless Steel (SUS304)	Mirror and Satin Combination	490 N	50 kgf	70 g	20 pcs	120 pcs

SWING HOOK

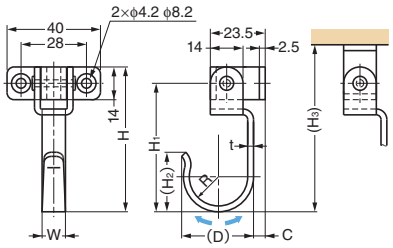
TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

UC



Ceiling mount





■**Features**

Swings 180˚.

■**Accessories**

Oval countersunk head screw 4×16 (SUS)

Item Code	Item Name	Material	Finish	W	D	H	H1	H2	H3	C	R	t	Load Capacity		Weight	Box	Carton
110-020-003	UC-048	Stainless Steel (SUS304)	Polished	9	24.9	55	48	21.4	64.5	6.5	10	2	55 N	5.6 kgf	37 g	40 pcs	400 pcs
110-020-002	UC-055	Stainless Steel (SUS304)	Polished	10	30.8	62	55	25.5	71.5	5	12.5	2.5	66 N	6.7 kgf	45 g	25 pcs	250 pcs

ROTATING SWING HOOK

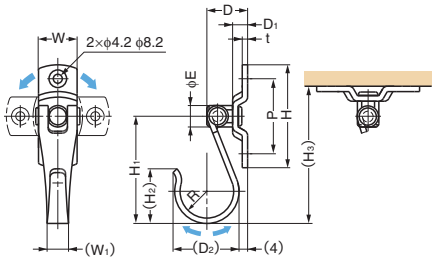
TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

UJ



Ceiling mount





■**Features**

Rotates 360˚ and swings 180˚.

■**Accessories**

Oval countersunk head screw 4×16 (SUS)

Item Code	Item Name	Material	Finish	W	W1	D	D1	D2	H	H1	H2	H3	P	E	R	t	Load Capacity		Weight	Box	Carton
110-020-001	UJ-040	Stainless Steel (SUS304)	Polished	16	9	16.5	5.5	24.9	42	40	21.4	52.5	30	9	10	2	66 N	6.7 kgf	27 g	50 pcs	500 pcs
110-020-000	UJ-050	Stainless Steel (SUS304)	Polished	18	10	19	7	30.8	48	50	25.5	64	35	10	12.5	2.5	87 N	8.9 kgf	45 g	30 pcs	300 pcs

ROTATING SWING HOOKS

TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

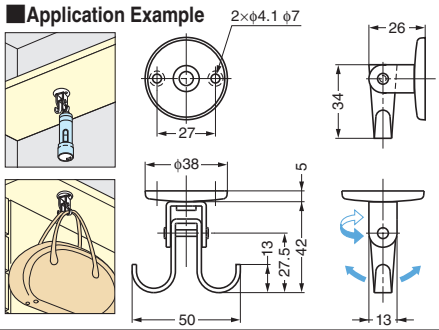
RF-U50



Ceiling mount



■**Application Example**



■**Features**

Rotates 360˚ and swings 180˚.

■**Accessories**

Oval countersunk head screw 3×25 (SUS)

Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box	Carton
110-020-007	RF-U50	Stainless Steel (SUS304)	Satin	60 N/hook	6.1 kgf/hook	40 g	25 pcs	250 pcs

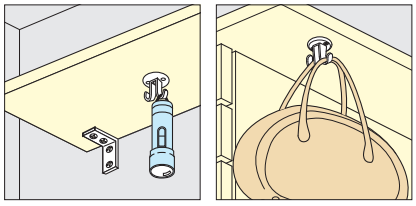
ROTATING HOOKS

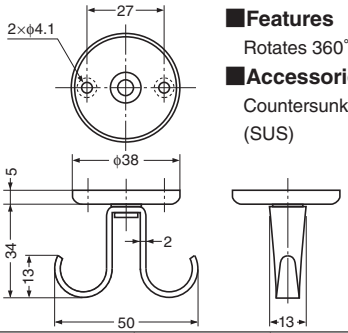
TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

RF-50S



■**Application Example**





■**Features**

Rotates 360˚.

■**Accessories**

Countersunk head screw 3×25 (SUS)

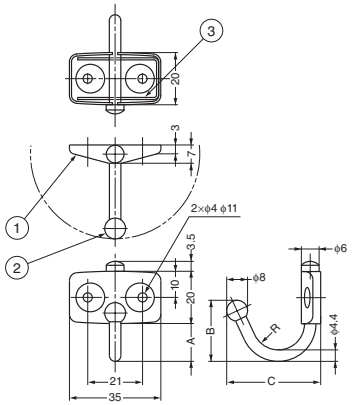
Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box	Carton
110-020-082	RF-50S	Stainless Steel (SUS304)	Satin	29.4 N/hook	3 kgf/hook	33 g	25 pcs	500 pcs

SWING HOOK

TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

TK, TKF



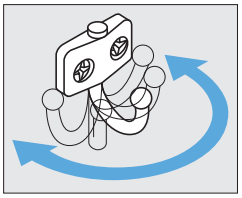


■Features

- w/ friction type and w/o friction type available.
- Swings 180°.

■Parts Included

Countersunk head wood screw 3.5×20 (SUS)



No.	Part Name	Material	Finish
①	Mounting Plate	Stainless Steel (SUS304)	Polished
②	Hook	Stainless Steel (SUS304)	Polished
③	Spring	Stainless Steel (SUS304WPB)	Plain

Item Code	Item Name	Type	Material	Finish	A	B	C	R	Load Capacity		Weight	Box	Carton
110-020-250	TK-30	Without Friction	Stainless Steel (SUS304)	Polished	14.5	23.4	36	10	117.6 N	12 kgf	17 g	100 pcs	1000 pcs
110-020-254	TK-45	Without Friction	Stainless Steel (SUS304)	Polished	19.4	28.4	44.3	15	78.4 N	8 kgf	20 g	100 pcs	1000 pcs
110-020-018	TK-30F	With Friction	Stainless Steel (SUS304)	Polished	14.5	23.4	36	10	117.6 N	12 kgf	17 g	100 pcs	1000 pcs
110-020-019	TK-45F	With Friction	Stainless Steel (SUS304)	Polished	19.5	28.4	44.3	15	78.4 N	8 kgf	20 g	100 pcs	1000 pcs

BUTTERFLY HOOK

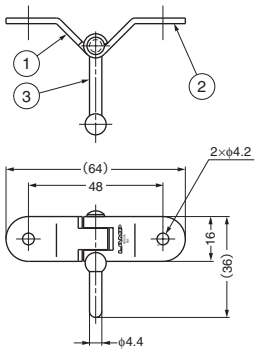
TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

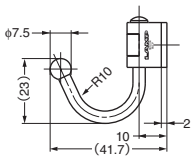
TZ-360











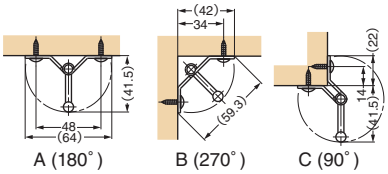
■Features

Can be used in various applications.

■Parts Included

Truss head tapping screw 4×12 (SUS)

■Application



No.	Part Name	Material	Finish
①	Leaf (L)	Stainless Steel (SUS304)	Mirror
②	Leaf (R)	Stainless Steel (SUS304)	Mirror
③	Hook	Stainless Steel (SUS304)	Polished

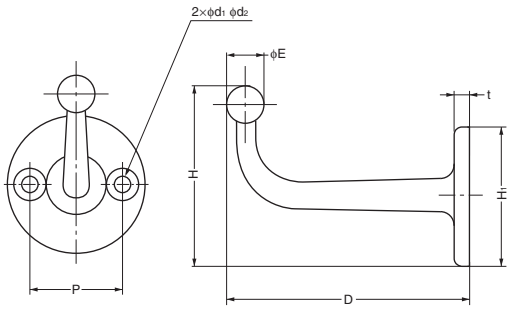
Item Code	Item Name	Material	Finish	Load Capacity						Weight	Box	Carton
				A		B		C				
110-020-009	TZ-360	Stainless Steel (SUS304)	Polished	59 N	6 kgf	55 N	5.6 kgf	29 N	3 kgf	27 g	50 pcs	500 pcs

HOOK

TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

FC





■Features

- The rounded tip provides safety.
- Titanium screws available by special order.

■Parts Included

- FC-50 : Raised countersunk head wood screw 3.1×16 (SUS)
- FC-65 : Raised countersunk head wood screw 3.8×20 (SUS)

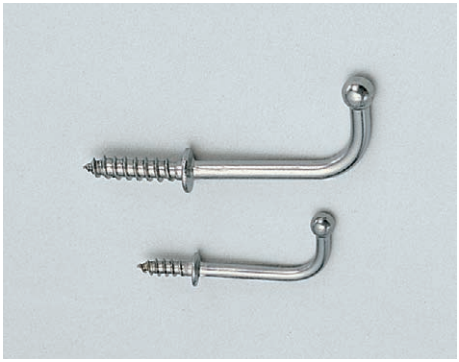
Item Code	Item Name	Material	Finish	D	H	H₁	t	P	d₁	d₂	E	Load Capacity		Screw	Weight	Box	Carton
110-020-121	FC-50TI	Titanium	Shot Blast	47	37	28	3	18.5	3.3	6.5	6.5	222 N	23 kgf	—	17 g	20 pcs	120 pcs
110-020-120	FC-65TI	Titanium	Shot Blast	65	44	35	4	22.5	4.2	8	8	294 N	30 kgf	—	34 g	30 pcs	180 pcs
110-026-006	FC-50	Stainless Steel (SCS13)	Mirror	47	37	28	3	18.5	3.3	6.5	6.5	98 N	10 kgf	3.1×16	25 g	40 pcs	480 pcs
110-026-007	FC-65	Stainless Steel (SCS13)	Mirror	65	44	35	4	22.5	4.2	8	8	117.6 N	12 kgf	3.8×20	54.5 g	20 pcs	240 pcs

※SCS13 is equivalent of SUS304.

WIRE HOOK

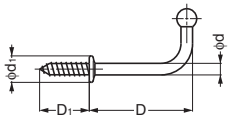
TEST METHOD 4 | STAINLESS 304 STEEL

TY



■Features

The rounded tip provides safety.

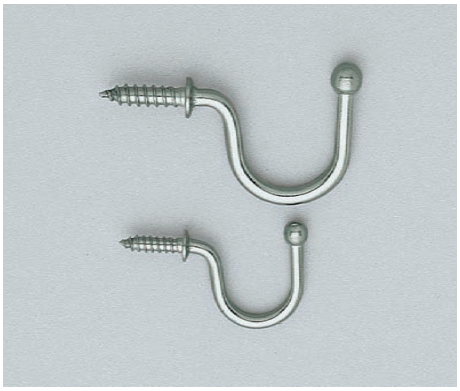


Item Code	Item Name	Material	Finish	D	D1	H	d	d1	d2	Load Capacity		Weight	Box	Carton
110-020-046	TY-20	Stainless Steel (SUS304)	Polished	21.8	11	14	2.7	6.5	4.5	29.4 N	3 kgf	1.5 g	200 pcs	7200 pcs
110-020-047	TY-25	Stainless Steel (SUS304)	Polished	27	13	17	3	7	5	29.4 N	3 kgf	3 g	100 pcs	3600 pcs
110-020-048	TY-30	Stainless Steel (SUS304)	Polished	31.2	15	20	3.5	8	6	68.6 N	7 kgf	5 g	100 pcs	1800 pcs
110-020-049	TY-35	Stainless Steel (SUS304)	Polished	36.5	20	23	4	9	6.5	68.6 N	7 kgf	7 g	50 pcs	1800 pcs
110-020-050	TY-40	Stainless Steel (SUS304)	Polished	43.5	20	27	4.5	10	7.5	78.4 N	8 kgf	11 g	50 pcs	900 pcs

WIRE HOOK

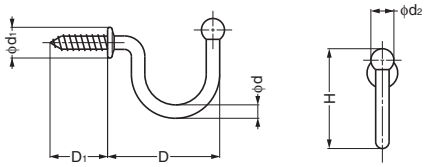
TEST METHOD 4 | STAINLESS 304 STEEL

TF



■Features

The rounded tip provides safety.



Item Code	Item Name	Material	Finish	D	D1	H	d	d1	d2	Load Capacity		Weight	Box	Carton
110-020-055	TF-20	Stainless Steel (SUS304)	Polished	20.8	11	20	2.7	6.5	4.5	29.4 N	3 kgf	3 g	200 pcs	7200 pcs
110-020-056	TF-30	Stainless Steel (SUS304)	Polished	29.2	15	26	3.5	8	6	68.6 N	7 kgf	5.5 g	100 pcs	1800 pcs
110-020-057	TF-35	Stainless Steel (SUS304)	Polished	40.5	20	35	4.5	10	7.5	117.6 N	12 kgf	13.5 g	50 pcs	900 pcs

WIRE HOOK

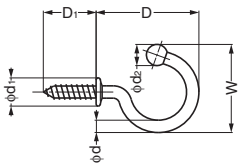
TEST METHOD 4 | STAINLESS 304 STEEL

TL



■Features

The rounded tip provides safety.



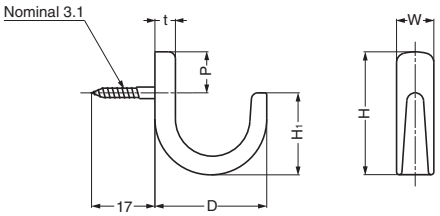
Item Code	Item Name	Material	Finish	D	D1	W	d	d1	d2	Load Capacity		Weight	Box	Carton
110-020-062	TL-15	Stainless Steel (SUS304)	Polished	16.8	11	15	2.7	6.5	4.5	49 N	5 kgf	1.9 g	200 pcs	7200 pcs
110-020-063	TL-20	Stainless Steel (SUS304)	Polished	22.8	11	20	2.7	6.5	4.5	49 N	5 kgf	2.1 g	100 pcs	3600 pcs
110-020-064	TL-30	Stainless Steel (SUS304)	Polished	29.2	15	25	3.5	8	6	49 N	5 kgf	6 g	50 pcs	900 pcs
110-020-065	TL-40	Stainless Steel (SUS304)	Polished	40.5	20	34	4.5	10	7.5	117.6 N	12 kgf	13.5 g	50 pcs	900 pcs

HOOK

TEST METHOD 4 | STAINLESS 304 STEEL

CS, CL





Item Code	Item Name	Material	Finish	D	W	H	H₁	P	t	Load Capacity		Weight	Box	Carton
110-026-010	CS-22	Stainless Steel (SUS304)	Mirror	22	9	27	15	9	4	49 N	5 kgf	10 g	30 pcs	600 pcs
110-026-011	CL-30	Stainless Steel (SUS304)	Mirror	30	10	33	22	11	5	78.4 N	8 kgf	18.5 g	20 pcs	400 pcs

HOOK

TEST METHOD 4 | STAINLESS 316 STEEL | STAINLESS

EU

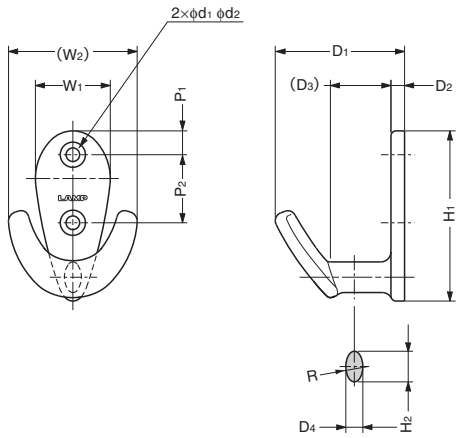


■Features

- Can hang 3 items at same time.
- Two-tip shape ideal to hang hats, caps etc.

■Parts Included

- EU50：Raised countersunk head wood screw 3.5×20 (SUS) (2 pcs)
- EU72：Raised countersunk head wood screw 4.1×20 (SUS) (2 pcs)



Item Code	Item Name	Material	Finish	H₁	H₂	W₁	W₂	D₁	D₂	D₃	D₄	P₁	P₂	d₁	d₂	Load Capacity		Weight	Box	Carton
110-020-270	EU-50	Stainless Steel (SCS14)	Mirror	50	9	22	38	38	4	17.8	5	7	20	4	7.4	196 N	20 kgf	42 g	20 pcs	120 pcs
110-020-271	EU-72	Stainless Steel (SCS14)	Mirror	72	14	32	56	52	6	23	8	10	34	4.6	8.6	294 N	30 kgf	118 g	10 pcs	60 pcs

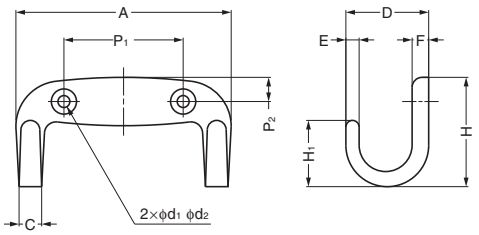
※SCS14 is equivalent of SUS316.

HOOK

TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

EW





■Parts Included

- EW-65E：Raised countersunk head wood screw 3.1×16 (SUS)
- EW-80E：Raised countersunk head wood screw 3.8×20 (SUS)

Item Code	Item Name	Material	Finish	A	P₁	C	D	E	F	P₂	H	H₁	d₁	d₂	Load Capacity		Weight	Box	Carton
110-026-002	EW-65E	Stainless Steel (SCS13)	Mirror	65	36	6.5	25	4	5	7.3	33	20	3.6	7.6	196 N	20 kgf	52 g	10 pcs	100 pcs
110-026-003	EW-80E	Stainless Steel (SCS13)	Mirror	80	44	8	32	5	6	9	42	25	4.2	8.8	196 N	20 kgf	93 g	10 pcs	100 pcs

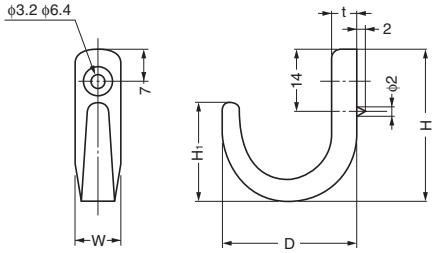
※SCS13 is equivalent of SUS304.

HOOK

TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

TA3





■Parts Included

- TA3S：Raised countersunk head wood screw 3.1×16 (SUS)
- TA3L：Raised countersunk head wood screw 3.1×16 (SUS)

Item Code	Item Name	Material	Finish	D	W	H	H1	t	Load Capacity		Weight	Box	Carton
110-026-008	TA3S	Stainless Steel (SCS13)	Mirror	22	9	29	16	4	156.8 N	16 kgf	10 g	30 pcs	600 pcs
110-026-009	TA3L	Stainless Steel (SCS13)	Mirror	30	10	34	22	5.5	156.8 N	16 kgf	19 g	20 pcs	400 pcs

※SCS13 is equivalent of SUS304.

HOOK

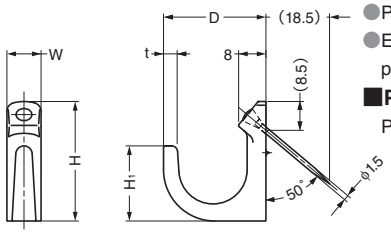
STAINLESS 304 STEEL | STAINLESS

PF



Pin (SUS)





■Features

- Possible to fix on plasterboard etc.
- Easy installation with the provided pin.

■Parts Included

Pin (SUS)

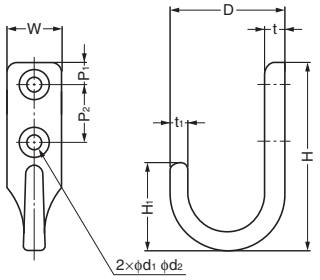
Item Code	Item Name	Material	Finish	D	W	H	H1	t	Load Capacity		Weight	Box	Carton
110-020-500	PF-22	Stainless Steel (SUS304)	Mirror	22	9	30	16	3	19.6 N	2 kgf	13 g	20 pcs	200 pcs
110-020-501	PF-30	Stainless Steel (SUS304)	Mirror	30	10	35	22	4	19.6 N	2 kgf	23 g	20 pcs	200 pcs

HOOK

TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

EL





■Parts Included

- EL-25：Oval countersunk head wood screw 2.7×16 (SUS)
- EL-30：Oval countersunk head wood screw 3.8×20 (SUS)

Item Code	Item Name	Material	Finish	D	W	H	H1	t	t1	P1	P2	d1	d2	Load Capacity		Weight	Box	Carton
110-026-004	EL-25	Stainless Steel (SCS13)	Mirror	26	12	40	19	5.5	4	5	12	3	6	196 N	20 kgf	19 g	30 pcs	300 pcs
110-026-005	EL-30	Stainless Steel (SCS13)	Mirror	32	15	54.5	25	6	5	6	16	4	8	196 N	20 kgf	32 g	20 pcs	200 pcs

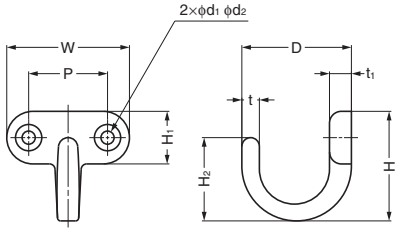
※SCS13 is equivalent of SUS304.

HOOK

TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

EP





■Parts Included

- EU-25：Oval countersunk head wood screw 2.7×16 (SUS)
- EU-40：Oval countersunk head wood screw 3.8×20 (SUS)

Item Code	Item Name	Material	Finish	D	W	H	H1	H2	t1	t	P	d1	d2	Load Capacity		Weight	Box	Carton
110-026-000	EP-25	Stainless Steel (SCS13)	Mirror	25	28	25	12	19	5	4	18	3	6	196 N	20 kgf	16 g	30 pcs	300 pcs
110-026-001	EP-40	Stainless Steel (SCS13)	Mirror	32	36	33	16	25	6	5	23	4	8	196 N	20 kgf	31 g	20 pcs	200 pcs

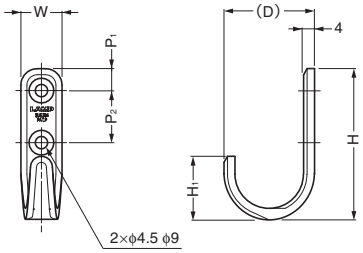
※SCS13 is equivalent of SUS304.

HOOK

TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

XL-HJT





■Features

Chamfered edge provides safety.

■Parts Included

Oval countersunk head wood screw 4.1×16 (SUS)

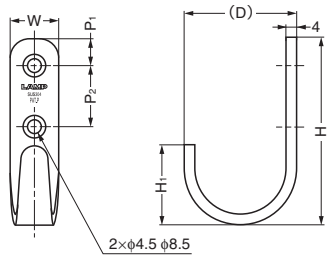
Item Code	Item Name	Material	Finish	D	W	H	H_1	P_1	P_2	Load Capacity		Weight	Box	Carton
110-020-935	XL-HJT55M	Stainless Steel (SUS304)	Mirror	33	15.5	55	23	8	19	98 N	10 kgf	34 g	30 pcs	300 pcs
110-020-936	XL-HJT55TT	Stainless Steel (SUS304)	Mirror and Satin Combination	33	15.5	55	23	8	19	98 N	10 kgf	34 g	30 pcs	300 pcs
110-020-937	XL-HJT70M	Stainless Steel (SUS304)	Mirror	43	18.5	70	30	10	23	78.4 N	8 kgf	53 g	20 pcs	200 pcs
110-020-938	XL-HJT70TT	Stainless Steel (SUS304)	Mirror and Satin Combination	43	18.5	70	30	10	23	78.4 N	8 kgf	53 g	20 pcs	200 pcs

HOOK

TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

HJT





■Parts Included

Oval countersunk head wood screw 4.1×16 (SUS)

Item Code	Item Name	Material	Finish	D	W	H	H_1	P_1	P_2	Load Capacity		Weight	Box	Carton
110-020-028	HJT-55S	Stainless Steel (SUS304)	Satin	33	15	55	23	8	19	98 N	10 kgf	34 g	30 pcs	300 pcs
110-020-027	HJT-70S	Stainless Steel (SUS304)	Satin	43	18	70	30	10	23	78.4 N	8 kgf	53 g	20 pcs	200 pcs
110-028-966	HJT-55SBL	Stainless Steel (SUS304)	Black	33	15	55	23	8	19	98 N	10 kgf	34 g	30 pcs	300 pcs
110-028-967	HJT-70SBL	Stainless Steel (SUS304)	Black	43	18	70	30	10	23	78.4 N	8 kgf	53 g	20 pcs	200 pcs

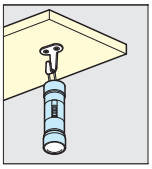
HOOK

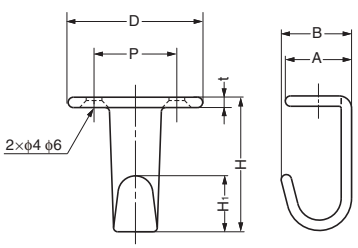
TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

HJ



■Application Example





■Parts Included

●HJ-20S：
Oval countersunk head wood head screw 3.1×16 (SUS)

●HJ-30S, HJ50S：
Oval countersunk head wood head screw 3.5×16 (SUS)

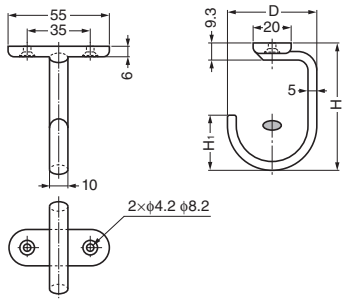
Item Code	Item Name	Material	Finish	D	P	H	H_1	A	B	t	Load Capacity		Weight	Box	Carton
110-020-029	HJ-20S	Stainless Steel (SUS304)	Satin	28	18	27	11	13	17	2.5	98 N	10 kgf	11 g	120 pcs	1200 pcs
110-020-078	HJ-30S	Stainless Steel (SUS304)	Satin	32.5	20	33	13.5	16	17	2.5	78.4 N	8 kgf	15 g	30 pcs	600 pcs
110-020-079	HJ-50S	Stainless Steel (SUS304)	Satin	43.5	30	47	19.6	21	22	2.5	98 N	10 kgf	30 g	40 pcs	800 pcs
110-028-963	HJ-20SBL	Stainless Steel (SUS304)	Black	28	18	27	11	13	17	2.5	98 N	10 kgf	11 g	120 pcs	1200 pcs
110-028-964	HJ-30SBL	Stainless Steel (SUS304)	Black	32.5	20	33	13.5	16	17	2.5	78.4 N	8 kgf	15 g	30 pcs	600 pcs
110-028-965	HJ-50SBL	Stainless Steel (SUS304)	Black	43.5	30	47	19.6	21	22	2.5	98 N	10 kgf	30 g	40 pcs	800 pcs

HOOK

TEST METHOD 4 | STAINLESS 303 STEEL | STAINLESS

DS-H





■Parts Included

Raised countersunk head tapping screw 4×20 (SUS)

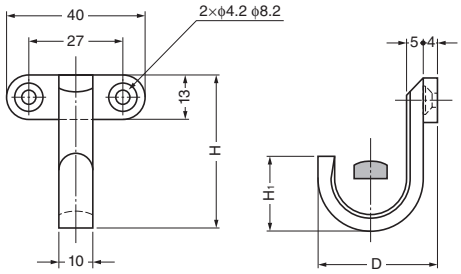
Item Code	Item Name	Material	Finish	D	H	H1	Load Capacity		Weight	Box	Carton
110-020-205	DS-H-50	Stainless Steel (SUS303)	Mirror	50	70	30	98 N	10 kgf	88 g	5 pcs	50 pcs
110-020-206	DS-H-60	Stainless Steel (SUS303)	Mirror	60	100	40	98 N	10 kgf	105 g	5 pcs	50 pcs

HOOK

TEST METHOD 4 | STAINLESS 303 STEEL | STAINLESS

KB-H





■Parts Included

Raised countersunk head tapping screw 4×20 (SUS)

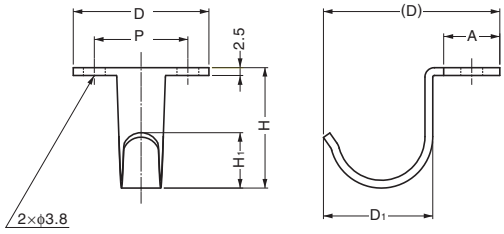
Item Code	Item Name	Material	Finish	D	H	H1	Load Capacity		Weight	Box
110-029-076	KB-H-35	Stainless Steel (SUS303)	Mirror	35	45	22	196 N	20 kgf	50 g	10 pcs
110-029-077	KB-H-40	Stainless Steel (SUS303)	Mirror	40	50	25	196 N	20 kgf	50 g	10 pcs

HOOK

STAINLESS 304 STEEL | STAINLESS

HJU





■Parts Included

Truss head tapping screw 3.5×20 (SUS)

Item Code	Item Name	Material	Finish	D	P	H	H1	A	D	D1	Load Capacity		Weight	Box	Carton
110-017-524	HJU-30S	Stainless Steel (SUS304)	Satin	32.5	20	25	13	13	41.8	25.5	78.4 N	8 kgf	15 g	30 pcs	600 pcs
110-017-525	HJU-50S	Stainless Steel (SUS304)	Satin	43.5	30	38.5	18	18	59	37.5	98 N	10 kgf	30 g	40 pcs	800 pcs

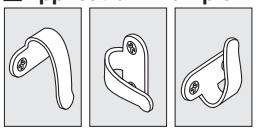
HOOK

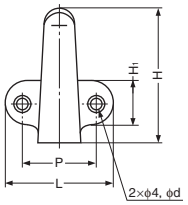
TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

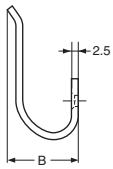
2H



■Application Example







■Features

Also can be used as a pull.

■Parts Included

- 2H-20S: Oval countersunk head wood head screw 3.1×16 (SUS)
- 2H-30S, SH-40S, 2H50S: Oval countersunk head wood head screw 3.5 ×16 (SUS)

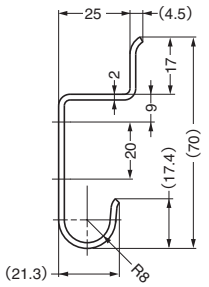
Item Code	Item Name	Material	Finish	L	P	H	H1	B	d	Load Capacity		Weight	Box	Carton
110-010-142	2H-20S	Stainless Steel (SUS304)	Satin	28	18	30	10	18	6.2	98 N	10 kgf	13 g	120 pcs	1200 pcs
110-010-143	2H-30S	Stainless Steel (SUS304)	Satin	32.5	20	39	13	18	7	98 N	10 kgf	18 g	100 pcs	1000 pcs
110-010-144	2H-40S	Stainless Steel (SUS304)	Satin	35	21.5	44	16	23	7	58.8 N	6 kgf	23 g	80 pcs	800 pcs
110-010-145	2H-50S	Stainless Steel (SUS304)	Satin	43	30	56	18	25	7	58.8 N	6 kgf	34 g	50 pcs	500 pcs

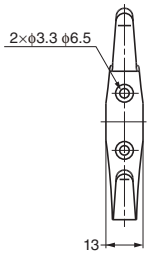
DOUBLE HOOK

TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

RI-074







■Features

Unique two-in-one hook.

■Parts Included

Oval countersunk head tapping screw 3×16 (SUS)

Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box	Carton
110-020-006	RI-074	Stainless Steel (SUS304)	Satin	49 N	5 kgf	16 g	40 pcs	400 pcs

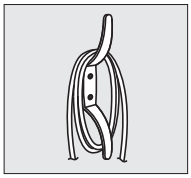
DOUBLE HOOK

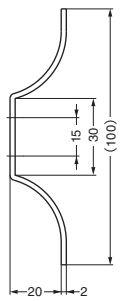
TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

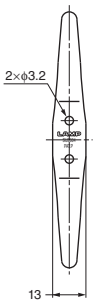
RB-102



■Application Example







■Features

Ideal for winding up ropes.

■Parts Included

Truss head tapping screw 3×16 (SUS)

Item Code	Item Name	Material	Finish	Weight	Box	Carton
110-020-004	RB-102	Stainless Steel (SUS304)	Satin	16 g	40 pcs	400 pcs

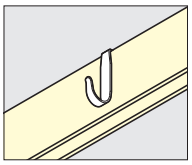
HANGING HOOK

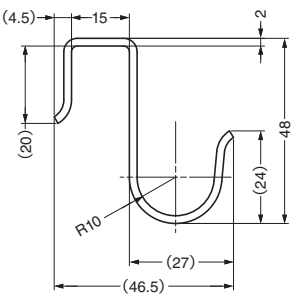
TEST METHOD 4 | STAINLESS 304 STEEL

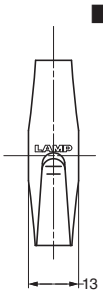
RN-50



■Application Example







■Features

Designed for use on partitions and doors.

Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box	Carton
110-020-005	RN-50	Stainless Steel (SUS304)	Satin	92.12 N	9.4 kgf	17 g	40 pcs	400 pcs

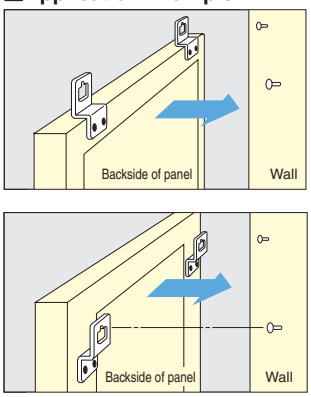
FRAME HANGER

TEST METHOD 3 | STAINLESS 304 STEEL | STAINLESS

SP

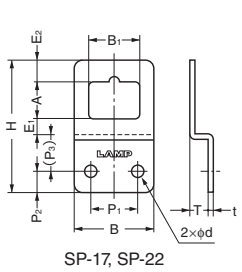


■Application Example

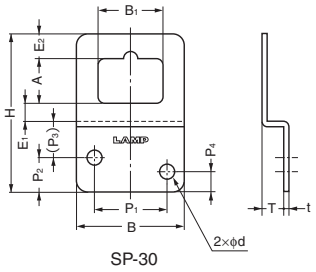


■Parts Included

- SP-17：Round head wood screw 2.7×13 (SUS)
- SP-22：Round head wood screw 3.1×16 (SUS)
- SP-30：Round head wood screw 3.5×16 (SUS)



SP-17, SP-22



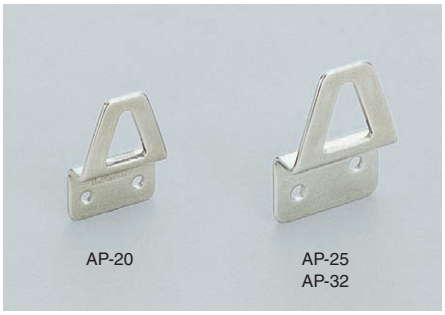
SP-30

Item Code	Item Name	Material	Finish	B	B1	H	A	P1	P2	P3	P4	d	E1	E2	T	t	Load Capacity		Weight	Box	Carton
110-020-075	SP-17	Stainless Steel (SUS304)	Polished	17	10.5	28.5	7	8	4.5	9.5	—	2.7	3.5	4	4	1.2	98 N	10 kgf	4 g	200 pcs	1000 pcs
110-020-076	SP-22	Stainless Steel (SUS304)	Polished	22	14	36.5	10	13	6	10	—	3.3	4.5	6	5	1.5	98 N	10 kgf	8 g	200 pcs	1000 pcs
110-020-077	SP-30	Stainless Steel (SUS304)	Polished	30	18	43.5	12	20	9.5	10	5.5	4.2	5	7	6	1.5	98 N	10 kgf	13 g	100 pcs	500 pcs

FRAME HANGER

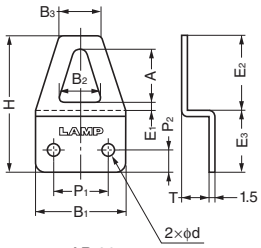
TEST METHOD 3 | STAINLESS 304 STEEL | STAINLESS

AP

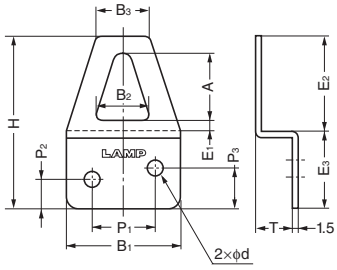


■Parts Included

- AP-20：Round head wood screw 2.7×13 (SUS)
- AP-25：Round head wood screw 3.1×16 (SUS)
- AP-32：Round head wood screw 3.5×16 (SUS)



AP-20



AP-25, AP-32

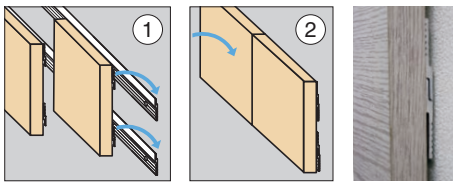
Item Code	Item Name	Material	Finish	B1	B2	B3	H	A	P1	P2	P3	d	E1	E2	E3	T	Load Capacity		Weight	Box	Carton
110-029-270	AP-20	Stainless Steel (SUS304)	Polished	20	9.2	9.2	30.4	11.8	12	5	—	2.8	2	16.8	13.6	6	98 N	10 kgf	6 g	100 pcs	1000 pcs
110-029-271	AP-25	Stainless Steel (SUS304)	Polished	25	11.5	11.5	37.5	14.7	14	6.5	9	3.3	2.5	20.5	17	8	98 N	10 kgf	10 g	100 pcs	1000 pcs
110-029-272	AP-32	Stainless Steel (SUS304)	Polished	32	14.8	14.8	47	17.2	18	8	12	4.2	3.2	24.5	22.5	10	98 N	10 kgf	16 g	100 pcs	1000 pcs

PANEL HANGER

AUH



■Installation



■Features

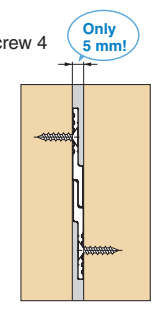
- Easy to hang panels.
- Distance to wall is only 5 mm.

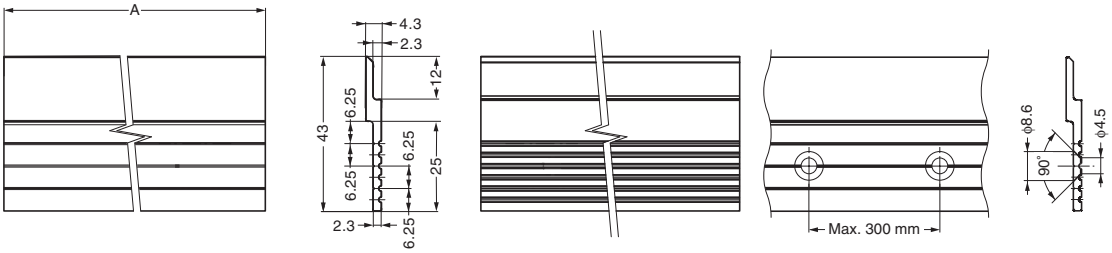
■Application Example

Exhibition panels, paintings etc.

■Recommended Screws

Countersunk head tapping screw 4



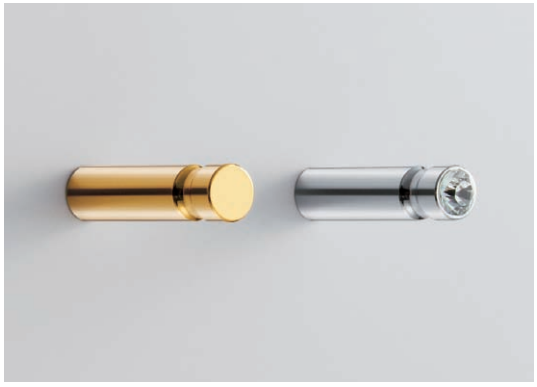


Item Code	Item Name	A	Material	Finish	Load Capacity		Weight	Carton
110-021-888	AUH- 900	900	Aluminium Alloy	Anodized Silver	271.9 N	30 kgf	246 g	10 pcs
110-023-958	AUH-2700	2700	Aluminium Alloy	Anodized Silver	271.9 N	30 kgf	737 g	10 pcs

VANITY HOOK

TEST METHOD 4 STEEL

SSF-10

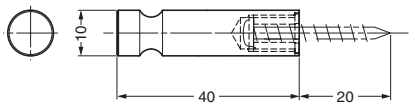


■Features

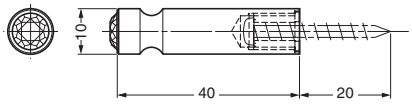
Available in gold or chrome finish with a tip of Swarovski® Crystal.

■Parts Included

Pan head tapping screw 3.5×30

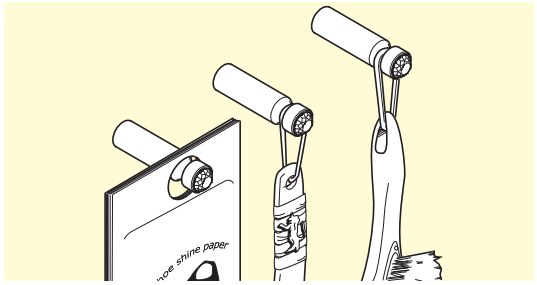


SSF-10CR
SSF-10FG

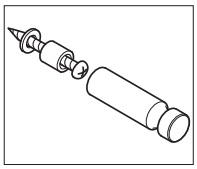


SSF-10CR-SW
SSF-10GP-SW

■Application Example



■Installation

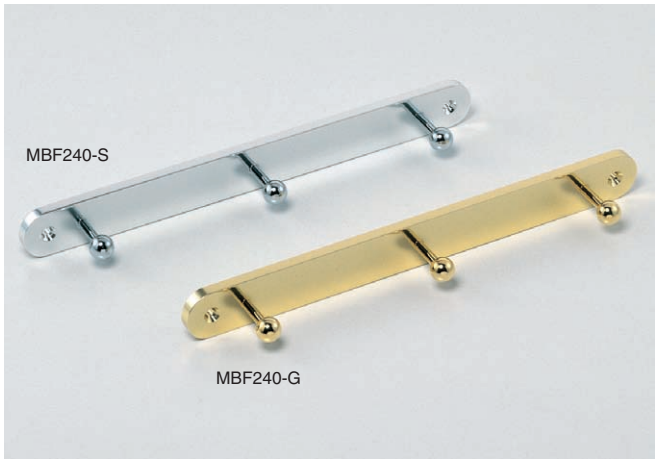


Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box	Carton
110-022-192	SSF-10CR	Brass	Chrome	58 N	5.8 kgf	24 g	10 pcs	600 pcs
110-022-193	SSF-10GP	Brass	24K Gold, Clear	58 N	5.8 kgf	24 g	10 pcs	600 pcs
110-022-194	SSF-10CR-SW	Brass w/ Swarovski® Crystal	Chrome	58 N	5.8 kgf	25 g	10 pcs	600 pcs
110-022-195	SSF-10GP-SW	Brass w/ Swarovski® Crystal	24K Gold, Clear	58 N	5.8 kgf	25 g	10 pcs	600 pcs

HOOK BOARD

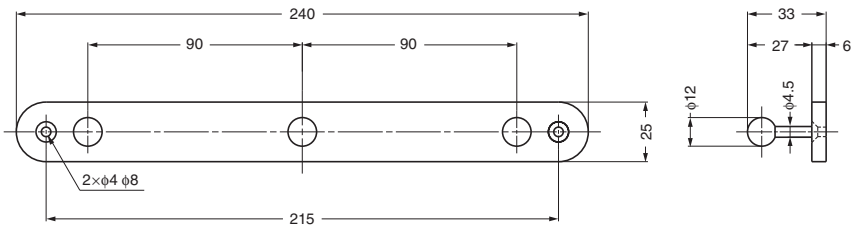
TEST METHOD 4 STEEL

MBF240



■Parts Included

Countersunk head wood screw 3.5×20 (gold or silver)

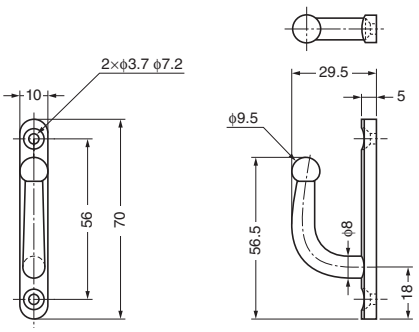


Item Code	Item Name	Colour	Material	Load Capacity		Weight	Box	Carton
110-021-007	MBF240-G	Gold	Steel + Aluminium Alloy	58.8 N/hook	6 kgf/hook	120 g	10 pcs	100 pcs
110-021-008	MBF240-S	Silver	Steel + Aluminium Alloy	58.8 N/hook	6 kgf/hook	120 g	10 pcs	100 pcs

HOOK

KB-F-70





■Features

The rounded tip provides safety.

■Parts Included

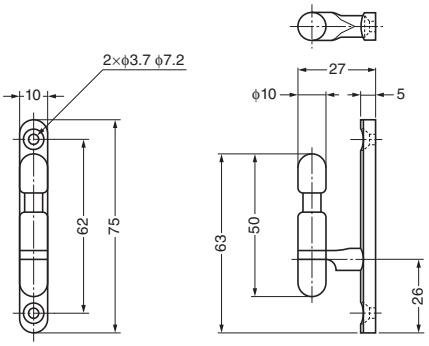
Raised countersunk head tapping screw 3.5×20 (SUS)

Item Code	Item Name	Material	Finish	Weight	Box	Carton
110-020-207	KB-F-70	Plate: Stainless Steel (SUS303) Hook: Stainless Steel (SUS304)	Mirror	48 g	5 pcs	100 pcs

HOOK

KB-F-75





■Features

The rounded tip provides safety.

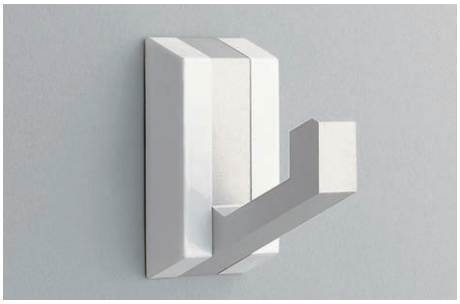
■Parts Included

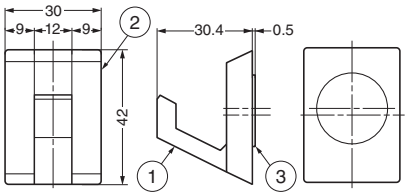
Raised countersunk head tapping screw 3.5×20 (SUS)

Item Code	Item Name	Material	Finish	Weight	Box	Carton
110-020-208	KB-F-75	Plate, Hook: Stainless Steel (SUS303) Arm: Stainless Steel (SUS304)	Mirror	55 g	5 pcs	100 pcs

MAGNETIC HOOK

MJ-30





■Features

The magnet covered with silicone prevents from scratching the wall.

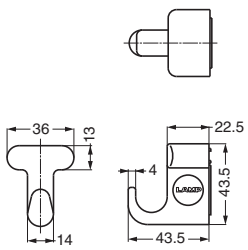
No.	Part Name	Material	Finish
①	Hook	Aluminium Alloy	Anodized
②	Body	ABS	White
③	Magnet	Neodymium	—

Item Code	Item Name	Material	Colour	Load Capacity		Weight	Box	Carton
110-020-421	MJ-30	Aluminum Alloy, ABS	Silver, White	9.8 N	1 kgf	30 g	20 pcs	400 pcs

MAGNETIC HOOK

MJ-45





Item Code	Item Name	Material	Colour	Load Capacity		Weight	Box	Carton
110-051-070	MJ-45I	ABS/Steel	Ivory	19.6 N	2 kgf	64 g	20 pcs	240 pcs
110-051-071	MJ-45RA	ABS/Steel	Orange	19.6 N	2 kgf	64 g	20 pcs	240 pcs
110-051-073	MJ-45BR	ABS/Steel	Brown	19.6 N	2 kgf	64 g	20 pcs	240 pcs

COAT HOOK

TEST METHOD 4 STEEL

SW-B-75

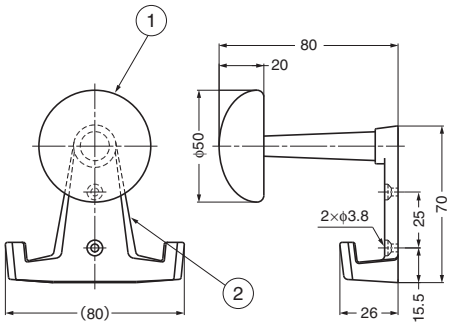


■Features

Laminated wood resists water, oil, heat, etc.

■Parts Included

- Countersunk round head wood screw 3.5×40 black chromate (2 pcs)
- Countersunk head wood screw 3.1×20 green colour head (2 pcs)



No.	Material	Finish
①	Natural Wood	Plain
②	Aluminium Alloy	Patina Green

Item Code	Item Name	Load Capacity		Weight	Box	Carton
110-020-100	SW-B-75	Top Hook: 49 N, Hook: 147 N	Top Hook: 5 kgf, Hook: 15 kgf	175 g	5 pcs	50 pcs

COAT HOOK

TEST METHOD 4 STEEL

SW-B-90

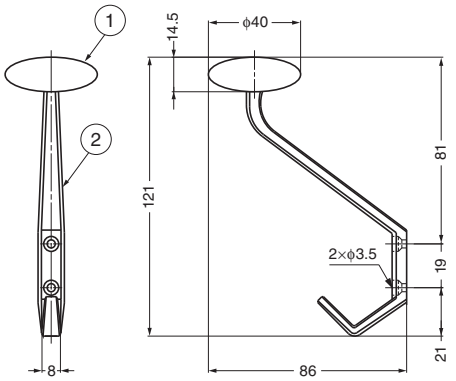


■Features

Laminated wood resists water, oil, heat, etc.

■Parts Included

Countersunk head wood screw 3.1×20



No.	Material	Finish
①	Natural Wood	Plain
②	Brass	Satin Nickel

Item Code	Item Name	Load Capacity		Weight	Box	Carton
110-020-095	SW-B-90	Top Hook: 19.6 N, Hook: 98 N	Top Hook: 2 kgf, Hook: 10 kgf	73 g	15 pcs	180 pcs

COAT HOOK

TEST METHOD 4 STEEL

SW-B-140

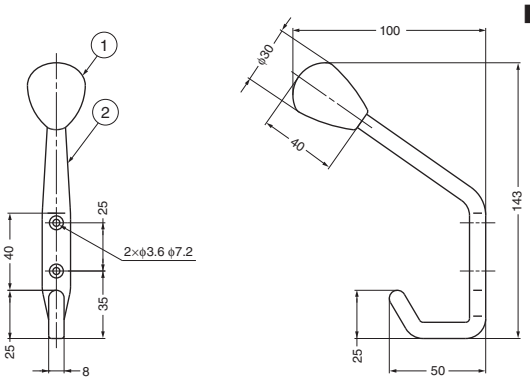


■Features

Laminated wood resists water, oil, heat, etc.

■Parts Included

Countersunk round head wood screw 3.5×25



Item Code	Item Name	Load Capacity		Weight	Box	Carton
110-020-106	SW-B-140G	Top Hook: 29.4 N, Hook: 147 N	Top Hook: 3 kgf, Hook: 15 kgf	165 g	10 pcs	60 pcs
110-020-107	SW-B-140WB	Top Hook: 29.4 N, Hook: 147 N	Top Hook: 3 kgf, Hook: 15 kgf	165 g	10 pcs	60 pcs

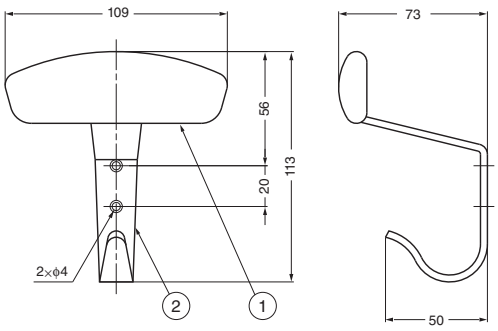
No.	Type	Material	Finish
①	–	Natural Wood	Plain
②	G	Zinc Alloy (ZDC)	Gold
②	WB	Zinc Alloy (ZDC)	Satin Nickel

COAT HOOK

TEST METHOD 4 | STAINLESS

SW-B-180





■Features

Laminated wood resists water, oil, heat, etc.

■Parts Included

Countersunk round head wood screw 3.5×16 (SUS)

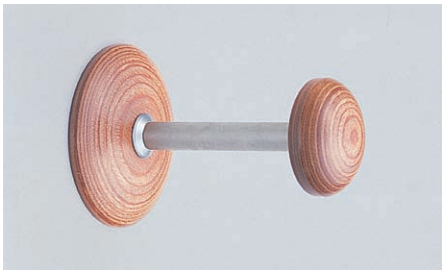
No.	Material	Finish
①	Natural Wood	Plain
②	Stainless Steel (SUS304)	Satin

Item Code	Item Name	Load Capacity		Weight	Box	Carton
110-020-098	SW-B-180	Top Hook: 49 N, Hook: 98 N	Top Hook: 5 kgf, Hook: 10 kgf	115 g	6 pcs	60 pcs

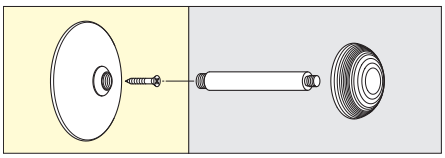
COAT HOOK

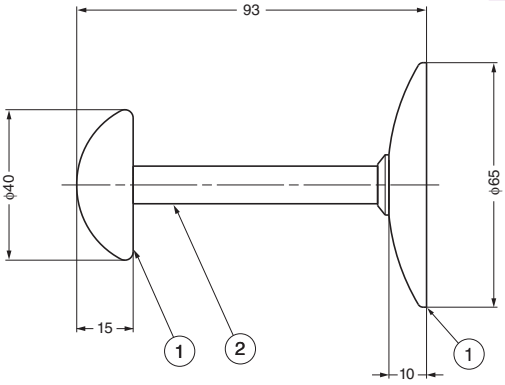
TEST METHOD 4 | STEEL

SW-B-135



■Installation





■Features

Laminated wood resists water, oil, heat, etc.

■Parts Included

Countersunk head wood screw 3.2×20

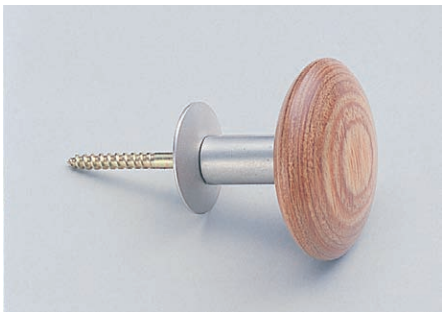
No.	Material	Finish
①	Natural Wood	Plain
②	Brass	Satin Nickel

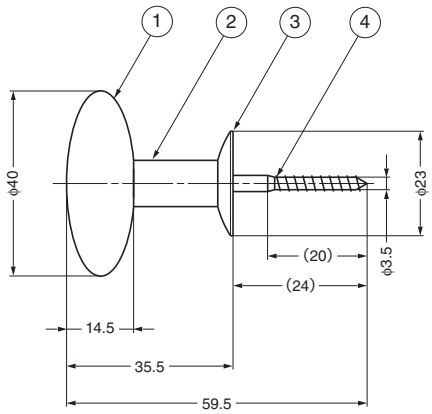
Item Code	Item Name	Load Capacity		Weight	Box	Carton
110-020-017	SW-B-135	68.6 N	7 kgf	100 g	15 pcs	150 pcs

COAT HOOK

TEST METHOD 4

SW-G-40





■Features

Laminated wood resists water, oil, heat, etc.

No.	Material	Finish
①	Natural Wood	Plain
②	Stainless Steel (SUS303)	Satin
③	Stainless Steel (SUS304)	Plain
④	Steel	Yellow Zinc Chromate

Item Code	Item Name	Load Capacity		Weight	Box	Carton
110-020-104	SW-G-40	98 N	10 kgf	31 g	25 pcs	250 pcs

COAT HOOK (URBAN METAL SERIES)

TEST METHOD 4 | STEEL

PXB-UM

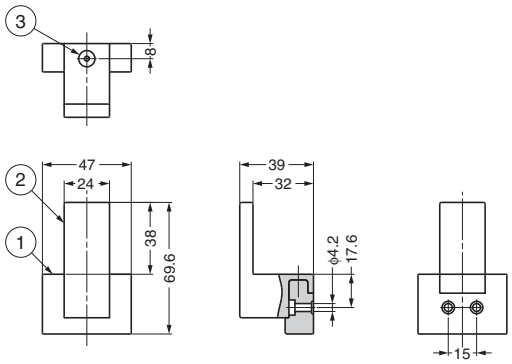


■Features

- An unprecedented design with sleekness from aluminium extrusion and edge treatment.
- Designed to integrate with modern style interiors where rectilinear-themed.
- Presents a sense of high quality in the appearance of simplicity by providing a base plate.

■Parts Included

- Pan head tapping screw 4×32
- Hexagon socket countersunk head screw M4×8



No.	Part Name	Material	Finish
①	Base	Aluminium	Anodized
②	Arm	Aluminium	Anodized
③	Socket Screw	Stainless Steel	Painting

Item Code	Item Name	Colour	Load Capacity		Weight	Box	Carton
110-033-272	PXB-UM05-101-ST	Plain	98 N	10 kgf	112 g	8 pcs	64 pcs
110-033-273	PXB-UM05-101-BL	Black			112 g	8 pcs	64 pcs

COAT HOOK (URBAN METAL/QUEST SERIES)

TEST METHOD 4 | STEEL

PXB-UM-Q1

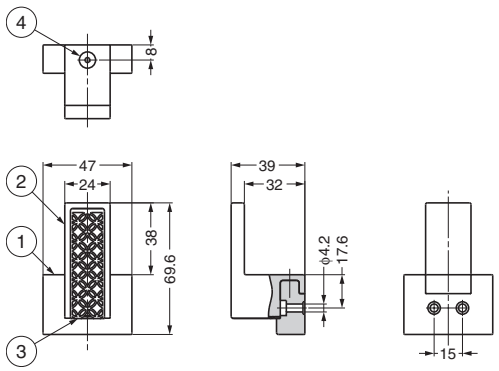


■Features

- Decorative plate fitted into the hook arm represents modern luxury style.
- The combination of simple form and decorative plate suits modern/classic interior design.
- Possibility to engrave your logo as made to order.

■Parts Included

- Pan head tapping screw 4×32
- Hexagon socket countersunk head screw M4×8



No.	Part Name	Material	Finish
①	Base	Aluminium	Shot Blast, Anodized
②	Arm	Aluminium	Shot Blast, Anodized
③	Plate	Brass	As below
④	Screw	Stainless Steel	Painting

Item Code	Item Name	Colour (Arm/Base)	Finish/Colour (Plate)	Load Capacity		Weight	Box	Carton
110-033-275	PXB-UM05-101-Q1-BL	Black	Black Nickel/Black	98 N	10 kgf	114 g	8 pcs	64 pcs
110-033-276	PXB-UM05-101-Q1-GL	Gold	Gold			114 g	8 pcs	64 pcs

COAT HOOK (PREMIUM WOOD SERIES)

TEST METHOD 4 | STEEL

PXB-WM

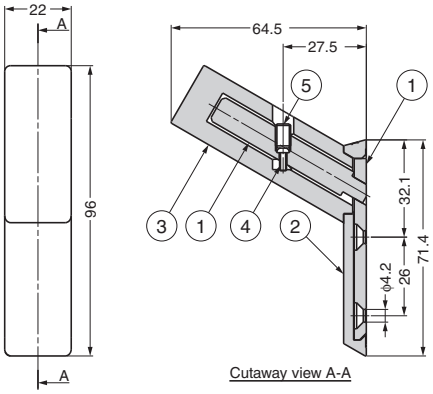


■Features

- The contrast of the gentle touch of wood surface and shiny metalic texture creates a unique rectilinear feature.
- Metal core inside the wooden arm provides high-durability.
- Clear coating greatly improves the endurance.

■Parts Included

- Countersunk head tapping screw 4×32
- Hexagon socket set screw M5×8
- Pan head screw M2.3×6



Cutaway view A-A

No.	Part Name	Material	Finish
①	Base	Steel (SS)	Clear Zinc Chromate
②	Base Cover	Zinc Alloy (ZDC)	As below
③	Arm	Wood	Clear
④	Screw	—	—
⑤	Socket Screw	Stainless Steel	—

Item Code	Item Name	Material (Arm)	Finish/Colour (Base Cover)	Load Capacity		Weight	Box	Carton
110-033-318	PXB-WM05-111-MK	White Birch	Plain	98 N	10 kgf	110 g	6 pcs	48 pcs
110-033-317	PXB-WM05-111-AS	Ostrya Japonica				110 g	6 pcs	48 pcs
110-033-316	PXB-WM05-111-WN	Wallnut	Black			110 g	6 pcs	48 pcs

RUBBER HOOK (PASTEL COLOUR)

TEST METHOD 4 | STEEL

PXB-GR05-1

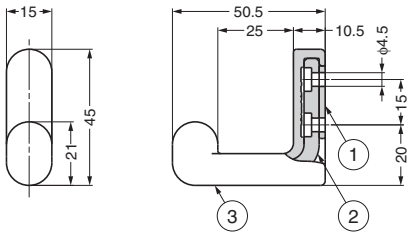


■Features

- Simple and safe design.
- Base made of SUS304 provides high-durability.
- Offers a wide range of colours.

■Parts Included

Pan head tapping screw 4×30



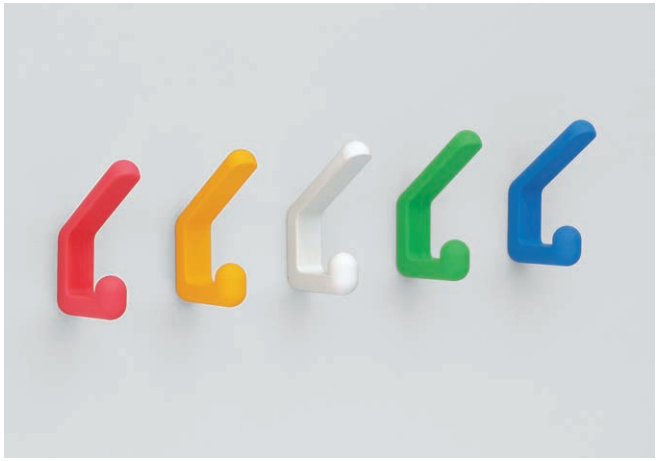
No.	Part Name	Material	Finish
①	Base Plate	Stainless Steel (SUS304)	Plain
②	Base	Stainless Steel (SUS304)	Plain
③	Cover	Silicone Rubber (Q)	—

Item Code	Item Name	Colour	Load Capacity		Weight	Box	Carton
110-033-282	PXB-GR05-111-LRD	Red	98 N	10 kgf	38 g	10 pcs	100 pcs
110-033-283	PXB-GR05-111-LYE	Yellow			38 g	10 pcs	100 pcs
110-033-284	PXB-GR05-111-LGN	Green			38 g	10 pcs	100 pcs
110-033-285	PXB-GR05-111-LBU	Blue			38 g	10 pcs	100 pcs
110-033-286	PXB-GR05-111-WT	White			38 g	10 pcs	100 pcs

RUBBER HOOK (VIVID COLOUR)

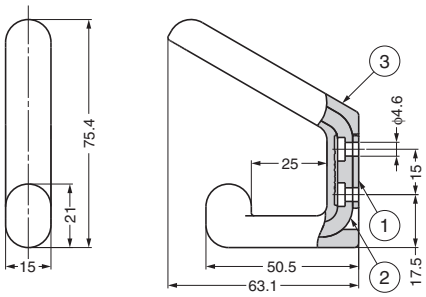
TEST METHOD 4 | STEEL

PXB-GR05-2



■Features
- Simple and safe design.
- Base made of SUS304 provides high-durability.
- Offers a wide range of colours.

■Parts Included
Pan head tapping screw 4×30



No.	Part Name	Material	Finish
①	Base Plate	Stainless Steel (SUS304)	Plain
②	Base	Stainless Steel (SUS304)	Plain
③	Cover	Silicone Rubber (Q)	–

Item Code	Item Name	Colour	Load Capacity		Weight	Box	Carton
110-033-287	PXB-GR05-211-RD	Red	98 N	10 kgf	66 g	10 pcs	100 pcs
110-033-288	PXB-GR05-211-YE	Yellow			66 g	10 pcs	100 pcs
110-033-289	PXB-GR05-211-GN	Green			66 g	10 pcs	100 pcs
110-033-290	PXB-GR05-211-BU	Blue			66 g	10 pcs	100 pcs
110-033-291	PXB-GR05-211-WT	White			66 g	10 pcs	100 pcs

RUBBER HOOK (NORDIC COLOUR)

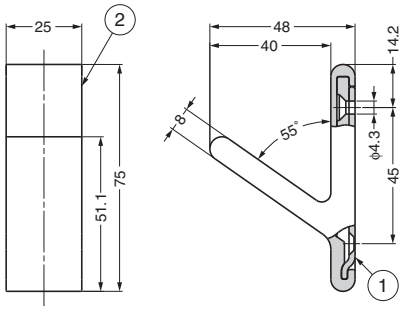
TEST METHOD 4 | STEEL

PXB-GN



■Features
- Simple and safe design.
- Base made of SUS304 provides high-durability.
- Designed to fit in all kinds of interior.

■Parts Included
Countersunk head tapping screw 4×30



No.	Part Name	Material	Finish
①	Base	Stainless Steel (SUS304)	Plain
②	Cover	Silicone Rubber (Q)	Plain

Item Code	Item Name	Colour	Load Capacity		Weight	Box	Carton
110-033-279	PXB-GN05-111-DG	Dark Grey	78.4 N	8 kgf	85 g	10 pcs	100 pcs
110-033-278	PXB-GN05-111-BR	Brown			85 g	10 pcs	100 pcs
110-033-277	PXB-GN05-111-BE	Beige			85 g	10 pcs	100 pcs

STAINLESS STEEL TOWEL BAR

ZL-3201

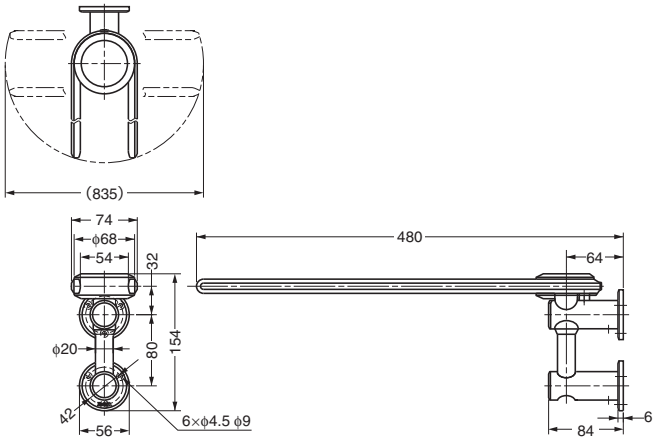


■Features

Superior finish of Mirror/Satin.

■Parts Included

- Countersunk head wood screw 4.1×32 (SUS)
- Lock plug
- Hex key



Item Code	Item Name	Material	Finish	Weight	Box
110-020-413	ZL-3201	Stainless Steel (SUS316)	Zwei L Finish	3135 g	1 pc

STAINLESS STEEL TOWEL BAR

ZL-3202

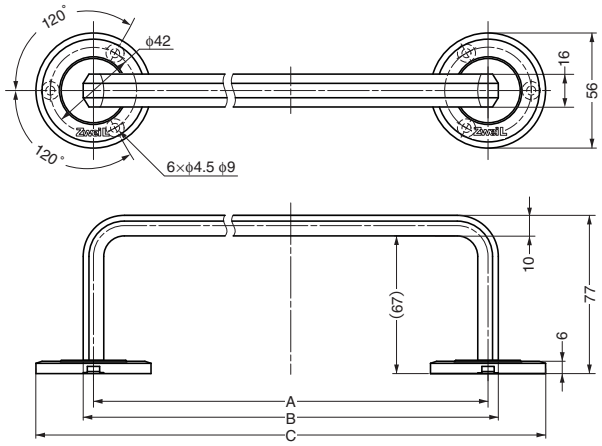


■Features

Superior finish of Mirror/Satin.

■Parts Included

- Countersunk head wood screw 4.1×25 (SUS)
- Lock plug
- Hex key



Item Code	Item Name	Material	Finish	A	B	C	Weight	Box
110-020-414	ZL-3202-480	Stainless Steel (SUS316)	Zwei L Finish	480	490	536	–	1 pc
110-020-415	ZL-3202-640	Stainless Steel (SUS316)	Zwei L Finish	640	650	696	1402 g	1 pc

STAINLESS STEEL TOWEL BAR

ZL-3203

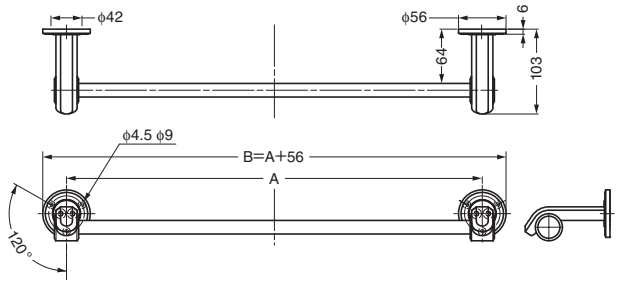


■Features

Superior finish of Mirror/Satin.

■Parts Included

- Countersunk head wood screw 4.1×32 (SUS)
- Plug
- Hex key



Item Code	Item Name	Material	Finish	A	B	Weight	Box
280-021-830	ZL-3203-480	Stainless Steel (SUS316)	Zwei L Finish	480	536	2000 g	1 pc
280-021-831	ZL-3203-640	Stainless Steel (SUS316)	Zwei L Finish	640	696	2200 g	1 pc



STAINLESS STEEL TOWEL BAR

ZL-3204

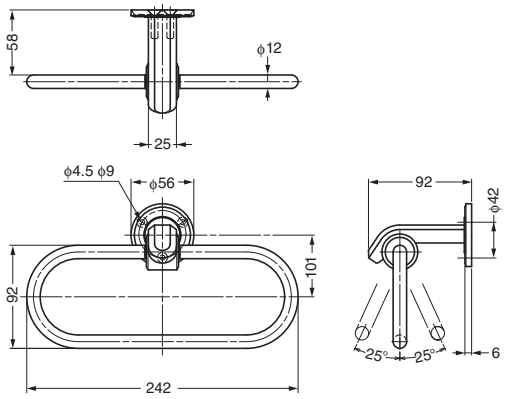


■Features

Superior finish of Mirror/Satin.

■Parts Included

- Countersunk head wood screw 4.1×32 (SUS)
- Plug
- Hex key
- Special tool for the ring



Item Code	Item Name	Material	Finish	Weight	Box
280-021-832	ZL-3204	Stainless Steel (SUS316)	Zwei L Finish	1200 g	1 pc

STAINLESS STEEL TOWEL BAR

ZL-3205

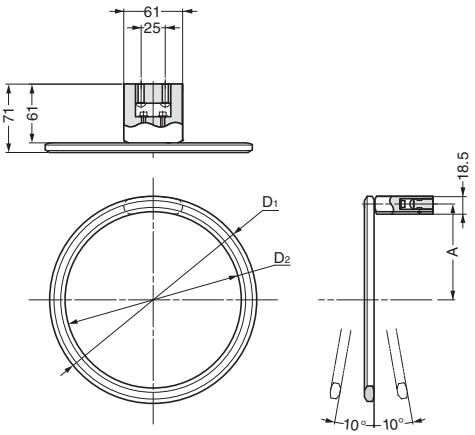


■Features

Superior finish of Mirror/Satin.

■Parts Included

- Round head wood screw 5.8×65 (SUS)
- Plug
- Hex key

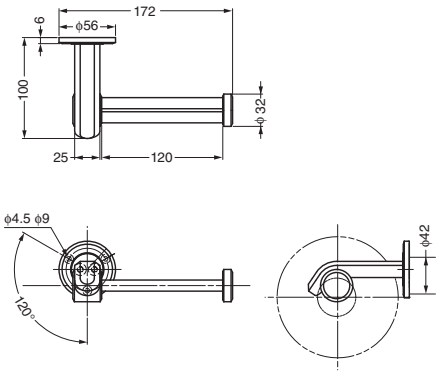


Item Code	Item Name	Material	Finish	D_1	D_2	A	Weight	Box
280-023-264	ZL-3205-172	Stainless Steel (SUS316)	Zwei L Finish	172	140	78	1224 g	1 pc
280-023-265	ZL-3205-215	Stainless Steel (SUS316)	Zwei L Finish	215	183	99.5	1453 g	1 pc

STAINLESS STEEL TOILET PAPER HOLDER

ZL-3301





Features

Superior finish of Mirror/Satin.

Parts Included

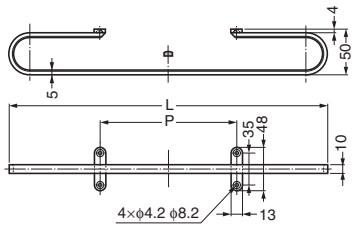
- Countersunk head wood screw 4.1×32 (SUS)
- Plug
- Hex key

Item Code	Item Name	Material	Finish	Weight	Box
280-021-834	ZL-3301	Stainless Steel (SUS316)	Zwei L Finish	800 g	1 pc

STAINLESS STEEL TOWEL BAR

KB-T





Parts Included

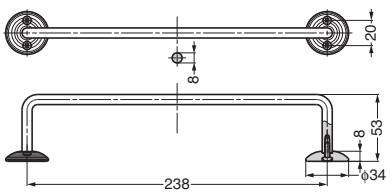
Raised countersunk head tapping screw 4×20 (SUS)

Item Code	Item Name	Material	Finish	L	P	Weight	Box
110-020-209	KB-T-350	Stainless Steel (SUS303)	Mirror	350	150	325 g	1 pc
110-020-210	KB-T-450	Stainless Steel (SUS303)	Mirror	450	250	397 g	1 pc

TOWEL BAR

SWT-240





Parts Included

Binding head tapping screw 3×16 (SUS/Brown head screw)

Item Code	Item Name	Material	Finish	Weight	Box	Carton
110-020-105	SWT-240	Natural Wood/Steel	Plain/Chrome	152 g	10 pcs	60 pcs

BRACKETS
SHELVING SYSTEM

SUGATSUNE

BRACKETS

Picture	Item Name	Load Capacity (kgf)	Page
	BY	50	156
	SV	8～14	156
	BA	5～11	157
	BU200	30	157
	XL-SA01	12～23	158
	SU	4～6	158
	SU-A	9～24	159
	SU-B	10～13	159
	BT, BTK	15～82.5	162
	TT, TTK	25～82.5	163
	SSA	150/pair	180

FOLDING BRACKETS

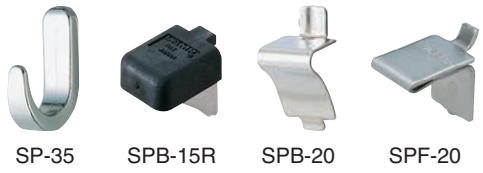
Picture	Item Name	Load Capacity (kgf)	Page
	GTS-300	3	160
	388	35～80	160
	EB-303/EP	150	160
	BOS-180, BOS-240	33～40	161
	BTO	40.8	161



SHELF ORGANIZERS



SP/SPS
STAINLESS 430 STEEL · STAINLESS 304 STEEL
Page 166-168



SP-35 SPB-15R SPB-20 SPF-20



SPF-20LC SPF-20A SPB-200 SP-18E



SPN (NARROW PROFILE)
STAINLESS 430 STEEL
Page 173



SPN-15 SPN-17EC



SM (COVERED SLOT)
STAINLESS 304 STEEL
Page 169



SMB-15R SPM-20B



SP-18E



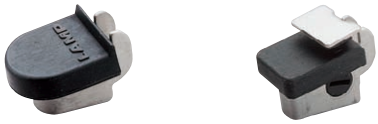
SPE (THIN PROFILE)
STAINLESS 430 STEEL
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SPE-FB20S



SPH (HEAVY DUTY)
STAINLESS 304 STEEL
Page 170-171



SPH-20 SPH-5



SPH-15 SP-18E



AP-DM, AP-DH (ALUMINIUM)
Page 175-178



AP-FB20 AP-FC20 AP-EC20 AP-FA20



AP-FK20D, FK20C AP-FB120 AP-FK20



SPHL (HEAVY DUTY)
STAINLESS 304 STEEL
Page 172



SPHL-30 SPHL-25



SPHL-23E



SPW (W/ COVER)
STAINLESS 430 STEEL
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SPW-20 SPW-EC20



SP-18E

OTHERS

COUNTERSUNK WASHERS

Page 181



SETUP



CS-492

CAPS

Page 182



KD-771, KD772, KD773W



KD

DOWELS

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SS-323



SS-324



SS-307



SS-318



SS-322



SS-320



SS-321



SS-313



SS-312



SS-310



SS-311



SS-309



SS-319



SS-108



CF-237

CORNER FASTENERS & CONNECTORS

Page 187-195



CF-235



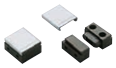
CF-215



CF-201



CF-203



CF-228



CF-213



CS-401



CS-465

CS-481



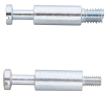
CS-447



CS-448



KD-703



KD-601



KD-622-155



KD-681-70



KD-752



4063A



5063



6063



10, 11, 50, 60, 61



BF-842S

BF-842W

BF-803

BF-806

BF-810

BF-857

BF-K

BUSHINGS

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SC-121-18

SC-108-W

SC-110-W

SC-114

SC-106

SC-107-13

GLASS SHELF CLAMPS

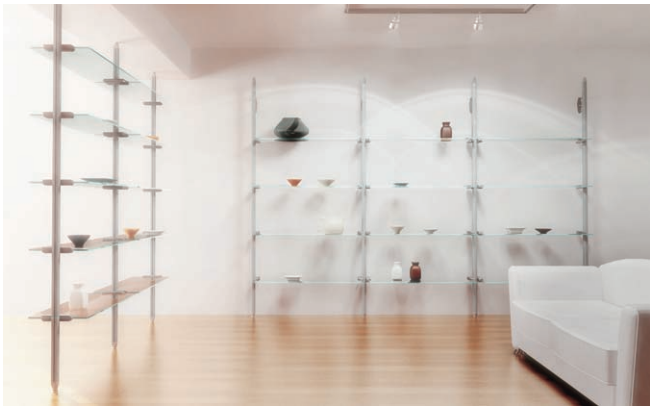
Picture	Item Name	Page
	ZL-2202 STAINLESS 316 STEEL	196
	ZL-2203 STAINLESS 316 STEEL	196
	ZL-2201 STAINLESS 316 STEEL	197

Picture	Item Name	Page
	SPV-G01-GP	198
	ZL-3102-40 STAINLESS 316 STEEL	198
	ZL-3101-200 STAINLESS 316 STEEL	198

SHELVING SYSTEMS



XLA-US02B P.200-203
UNIT SHELF TYPE "B"



XLA-US02C P.204-206
UNIT SHELF TYPE "C"



XLA-US02K P.207-210
UNIT SHELF TYPE "K"



VT-DS P.211
LEVEL ADJUSTABLE SHELVING SYSTEM



VT-DF P.212
LEVEL ADJUSTABLE SHELVING SYSTEM



VT P.213-216
SHELVING SYSTEM



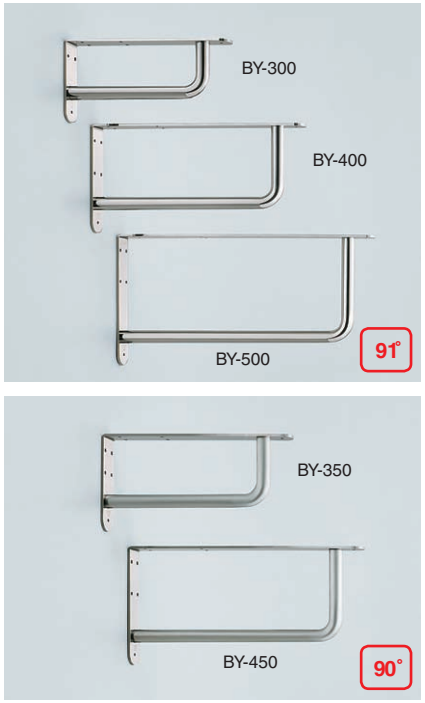
FLUQS® 250/750 P.218-219
WALL SHELVING SYSTEM

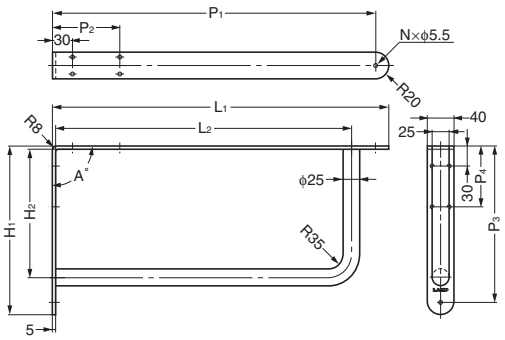


FLUQS® 25/ONE P.220-221
WALL SHELVING SYSTEM

BRACKET

BY





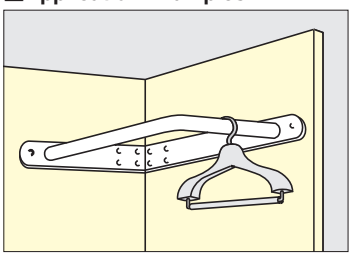
■Features

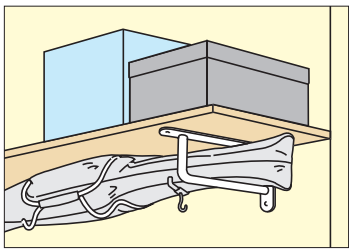
- 91° (Mirror finish) : Ideal for a shelving application.
- 90° (Satin finish) : Ideal for a corner reinforcement.

■Parts Included

Truss head tapping screw (SUS)

■Application Examples





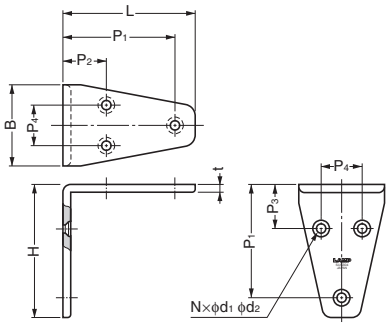
Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box	Carton
120-039-292	BY-300	Stainless Steel (SUS304)	Mirror	490 N/pc	50 kgf/pc	1100 g	2 pcs	6 pcs
120-030-408	BY-350	Stainless Steel (SUS304)	Satin	490 N/pc	50 kgf/pc	1160 g	2 pcs	6 pcs
120-039-293	BY-400	Stainless Steel (SUS304)	Mirror	490 N/pc	50 kgf/pc	1440 g	2 pcs	6 pcs
120-030-409	BY-450	Stainless Steel (SUS304)	Satin	490 N/pc	50 kgf/pc	1520 g	2 pcs	6 pcs
120-039-294	BY-500	Stainless Steel (SUS304)	Mirror	490 N/pc	50 kgf/pc	1820 g	2 pcs	6 pcs

Item Name	H_1	H_2	L_1	L_2	P_1	P_2	P_3	P_4	A	Holes N	Screw
BY-300	150	90	300	240	280	100	130	—	91	8	5×25, 5×16
BY-350	175	120	350	295	330	110	155	70	90	10	5×25, 5×16
BY-400	200	140	400	340	380	120	180	90	91	10	5×25, 5×16
BY-450	225	170	450	395	430	140	205	90	90	10	5×25, 5×16
BY-500	250	190	500	440	480	160	230	90	91	10	5×25, 5×16

ANGLE BRACKET

SV





■Features

- Ideal for kitchen, marine, bathroom applications with various usages.
- Black colour is available upon request.

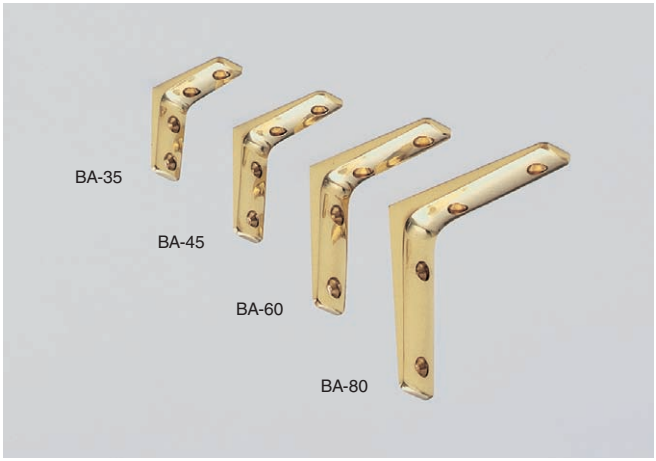
■Parts Included

Countersunk head screw (SUS)

Item Code	Item Name	Material	Finish	L	H	P_1	P_2	P_3	P_4	B	t	d_1	d_2	Holes N	Load Capacity		Screw	Weight	Box	Carton
120-030-060	SV-40S	Stainless Steel (SUS304)	Satin	40	40	34	17	17	—	25	3	3.3	6.5	4	78.4 N/pc	8 kgf/pc	3.1×20	33 g	40 pcs	640 pcs
120-030-056	SV-40M	Stainless Steel (SUS304)	Mirror	40	40	34	17	17	—	25	3	3.3	6.5	4	78.4 N/pc	8 kgf/pc	3.1×20	33 g	40 pcs	640 pcs
120-030-061	SV-55S	Stainless Steel (SUS304)	Satin	55	55	47	18	18	17	36.5	3	3.8	7.5	6	78.4 N/pc	8 kgf/pc	3.1×20	65 g	20 pcs	320 pcs
120-030-057	SV-55M	Stainless Steel (SUS304)	Mirror	55	55	47	18	18	17	36.5	3	3.8	7.5	6	78.4 N/pc	8 kgf/pc	3.1×20	65 g	20 pcs	320 pcs
120-030-062	SV-80S	Stainless Steel (SUS304)	Satin	80	80	71	24	24	27	52	4	4.3	8.5	6	137.2 N/pc	14 kgf/pc	3.8×20	178 g	10 pcs	120 pcs
120-030-058	SV-80M	Stainless Steel (SUS304)	Mirror	80	80	71	24	24	27	52	4	4.3	8.5	6	137.2 N/pc	14 kgf/pc	3.8×20	178 g	10 pcs	120 pcs

ANGLE BRACKET

STEEL **BA**



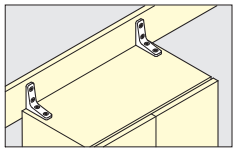
■**Features**

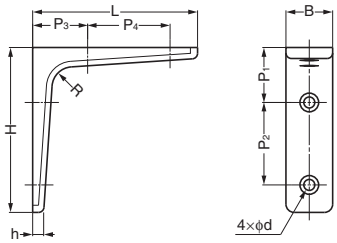
Solid brass bracket.

■**Parts Included**

Countersunk head screw

■**Application Example**





Item Code	Item Name	Material	Finish	L	H	B	P_1	P_2	P_3	P_4	h	R	d	Load Capacity		Screw	Weight	Box	Carton
120-030-102	BA-35	Brass	Mirror, Clear	35	35	14	14	15	14	15	3	4.5	3.3	49 N/pc	5 kgf/pc	3.1×16	28 g	40 pcs	200 pcs
120-030-103	BA-45	Brass	Mirror, Clear	45	45	15	17	20	17	20	3	5.5	3.3	78.4 N/pc	8 kgf/pc	3.1×16	45 g	30 pcs	150 pcs
120-030-399	BA-60	Brass	Mirror, Clear	60	60	17	20	30	20	30	4	7.5	4	98 N/pc	10 kgf/pc	3.8×20	80 g	20 pcs	100 pcs
120-030-400	BA-80	Brass	Mirror, Clear	80	80	19	28	40	28	40	4	10	4	107.8 N/pc	11 kgf/pc	3.8×20	150 g	10 pcs	50 pcs

FORK BRACKET

STEEL **BU200**

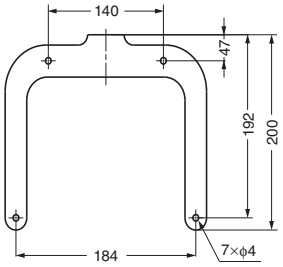


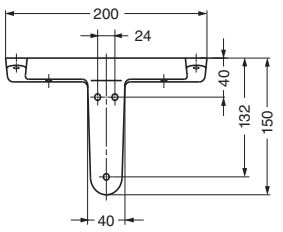
■**Features**

For narrow spaces.

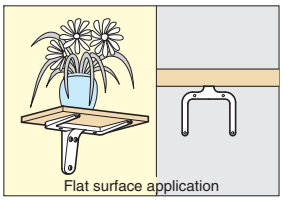
■**Parts Included**

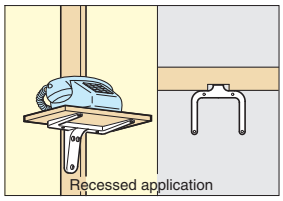
Round head wood screw

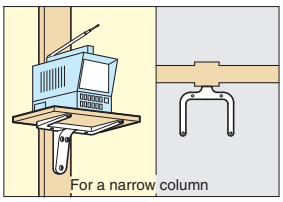




■**Application Examples**







Item Code	Item Name	Colour	Material	Load Capacity		Screw	Weight	Box
120-030-100	BU200-I	Ivory	Aluminium Alloy	294 N	30 kgf	3.8×25	320 g	10 pcs
120-030-101	BU200-B	Black	Aluminium Alloy	294 N	30 kgf	3.8×25	320 g	10 pcs

ANGLE BRACKET

TEST METHOD 6 | STAINLESS 304 STEEL | STAINLESS

XL-SA01



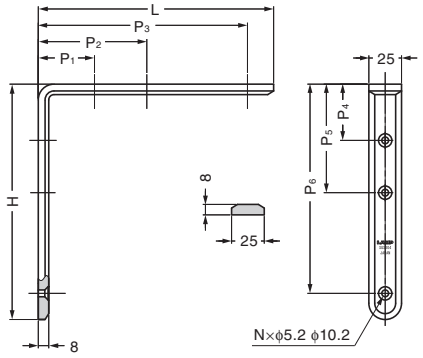
■Features

Ideal for kitchen, marine, shop, bathroom applications with various usages.

■Parts Included

Raised countersunk head tapping screw 5×30 (SUS)





Item Code	Item Name	Material	Finish	L	H	P1	P2	P3	P4	P5	P6	Holes N	Load Capacity		Weight	Box	Carton
120-030-303	XL-SA01-120S	Stainless Steel (SUS304)	Satin	120	120	38	—	100	38	—	100	4	226 N/pc	23 kgf/pc	330 g	8 pcs	40 pcs
120-030-307	XL-SA01-120M	Stainless Steel (SUS304)	Mirror	120	120	38	—	100	38	—	100	4	226 N/pc	23 kgf/pc	330 g	8 pcs	40 pcs
120-030-304	XL-SA01-150S	Stainless Steel (SUS304)	Satin	150	150	43	—	130	43	—	130	4	177 N/pc	18 kgf/pc	420 g	6 pcs	30 pcs
120-030-308	XL-SA01-150M	Stainless Steel (SUS304)	Mirror	150	150	43	—	130	43	—	130	4	177 N/pc	18 kgf/pc	420 g	6 pcs	30 pcs
120-030-305	XL-SA01-180S	Stainless Steel (SUS304)	Satin	180	180	43	83	160	43	83	160	6	137 N/pc	14 kgf/pc	510 g	6 pcs	30 pcs
120-030-309	XL-SA01-180M	Stainless Steel (SUS304)	Mirror	180	180	43	83	160	43	83	160	6	137 N/pc	14 kgf/pc	510 g	6 pcs	30 pcs
120-030-306	XL-SA01-240S	Stainless Steel (SUS304)	Satin	240	240	43	83	220	43	83	220	6	118 N/pc	12 kgf/pc	690 g	4 pcs	20 pcs
120-030-310	XL-SA01-240M	Stainless Steel (SUS304)	Mirror	240	240	43	83	220	43	83	220	6	118 N/pc	12 kgf/pc	690 g	4 pcs	20 pcs

ANGLE BRACKET

TEST METHOD 6 | STAINLESS 304 STEEL | STAINLESS

SU



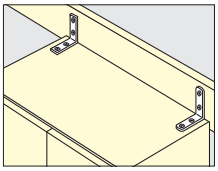
■Features

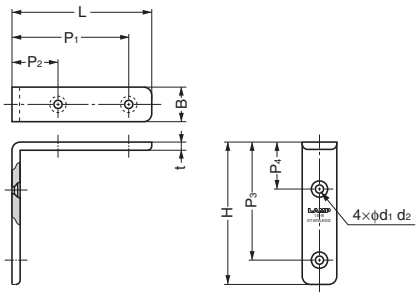
- Ideal for kitchen, marine, shop, bathroom applications with various usages.
- Black colour is available upon request.

■Parts Included

Raised countersunk head screw (SUS)

■Installation



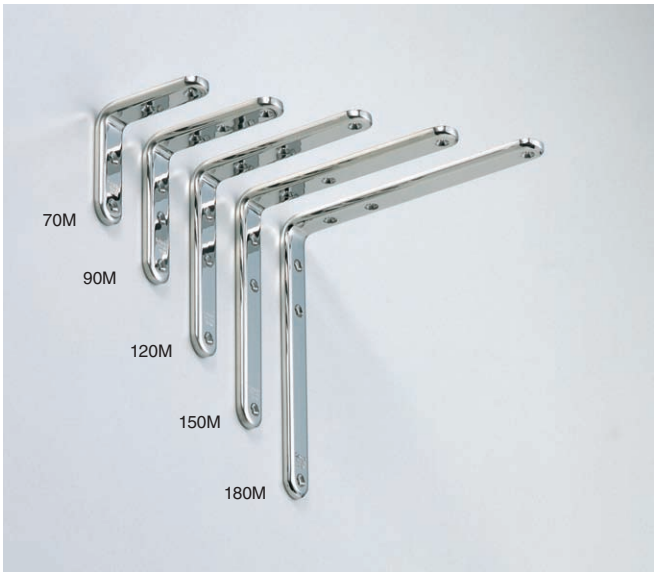


Item Code	Item Name	Material	Finish	L	B	H	P1	P2	P3	P4	t	d1	d2	Load Capacity		Screw	Weight	Box	Carton
120-030-070	SU-30S	Stainless Steel (SUS304)	Satin	30	12	30	24	11	24	11	2.5	3.5	6.5	59 N/pc	6 kgf/pc	3.1×20	15 g	60 pcs	960 pcs
120-030-065	SU-30M	Stainless Steel (SUS304)	Mirror	30	12	30	24	11	24	11	2.5	3.5	6.5	59 N/pc	6 kgf/pc	3.1×20	15 g	60 pcs	960 pcs
120-030-071	SU-45S	Stainless Steel (SUS304)	Satin	45	13	45	37	17	37	17	3	3.5	6.5	49 N/pc	5 kgf/pc	3.1×20	23 g	50 pcs	800 pcs
120-030-066	SU-45M	Stainless Steel (SUS304)	Mirror	45	13	45	37	17	37	17	3	3.5	6.5	49 N/pc	5 kgf/pc	3.1×20	23 g	50 pcs	800 pcs
120-030-072	SU-60S	Stainless Steel (SUS304)	Satin	60	15	60	50	20	50	20	3	4	7.5	39 N/pc	4 kgf/pc	3.5×20	43 g	40 pcs	640 pcs
120-030-067	SU-60M	Stainless Steel (SUS304)	Mirror	60	15	60	50	20	50	20	3	4	7.5	39 N/pc	4 kgf/pc	3.5×20	43 g	40 pcs	640 pcs

ANGLE BRACKET

TEST METHOD 6 | STAINLESS 304 STEEL | STAINLESS

SU-A

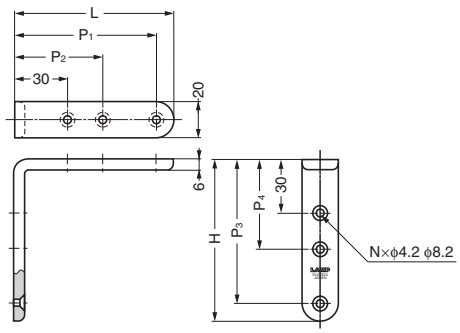


■Features

- Ideal for kitchen, marine, shop, bathroom applications with various usages.
- Please contact us for satin finish.

■Parts Included

Raised countersunk head tapping screw 4×25 (SUS)



Item Code	Item Name	Material	Finish	H	L	P_1	P_2	P_3	P_4	Holes N	Load Capacity		Weight	Box	Carton
120-030-180	SU-A 70M	Stainless Steel (SUS304)	Mirror	70	70	—	60	—	60	4	235 N/pc	24 kgf/pc	117 g	10 pcs	100 pcs
120-030-181	SU-A 90M	Stainless Steel (SUS304)	Mirror	90	90	80	50	80	50	6	167 N/pc	17 kgf/pc	154 g	10 pcs	100 pcs
120-030-182	SU-A120M	Stainless Steel (SUS304)	Mirror	120	120	110	60	110	60	6	127 N/pc	13 kgf/pc	210 g	8 pcs	80 pcs
120-030-183	SU-A150M	Stainless Steel (SUS304)	Mirror	150	150	140	60	140	60	6	98 N/pc	10 kgf/pc	262 g	6 pcs	60 pcs
120-030-179	SU-A180M	Stainless Steel (SUS304)	Mirror	180	180	170	60	170	60	6	88 N/pc	9 kgf/pc	320 g	6 pcs	30 pcs

ANGLE BRACKET

TEST METHOD 6 | STAINLESS 304 STEEL | STAINLESS

SU-B

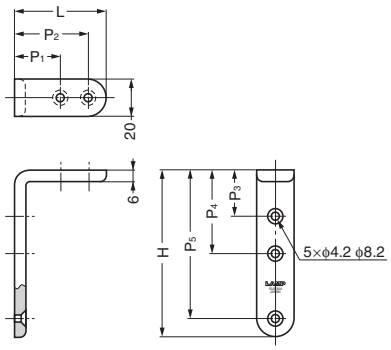


■Features

- Ideal for kitchen, marine, shop, bathroom applications with various usages.
- Please contact us for satin finish.

■Parts Included

Raised countersunk head tapping screw 4×25 (SUS)



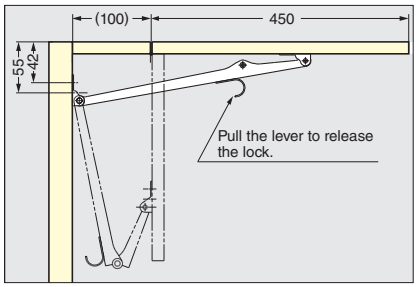
Item Code	Item Name	Material	Finish	H	L	P_1	P_2	P_3	P_4	P_5	Load Capacity		Weight	Box	Carton
120-030-184	SU-B50M	Stainless Steel (SUS304)	Mirror	90	50	25	40	25	45	80	127 N/pc	13 kgf/pc	120 g	10 pcs	100 pcs
120-030-185	SU-B65M	Stainless Steel (SUS304)	Mirror	120	65	30	55	30	60	110	127 N/pc	13 kgf/pc	157 g	10 pcs	100 pcs
120-030-186	SU-B80M	Stainless Steel (SUS304)	Mirror	150	80	30	70	30	60	140	98 N/pc	10 kgf/pc	206 g	8 pcs	80 pcs

SPRING LOADED FOLDING BRACKET

STAINLESS 304 STEEL

GTS-300



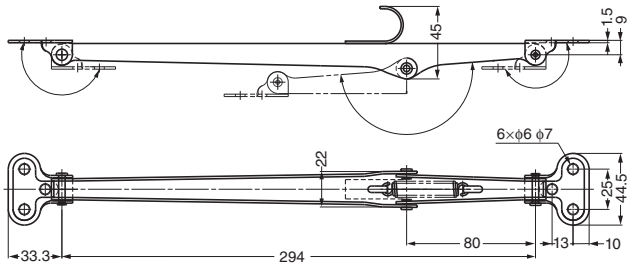


■Features

- Spring loaded for lift assist.
- Pull the lever to fold down.

■Remarks

- Shelf board depth : Max. 450 mm.
- Horizontal use only.



Item Code	Item Name	Material	Finish	Load Capacity		Load Capacity		Recommended Depth		Recommended Width		Weight	Box	Carton
120-109-116	GTS-300	Stainless Steel (SUS304)	Mirror	29.4 N/pc	3 kgf/pc	58.8 N/2 pcs	6 kgf/2 pcs	Max. 450/pc	Max. 450/2 pcs	Max. 300/pc	Max. 600/2 pcs	190 g	12 pcs	96 pcs

FOLDING BRACKET

388

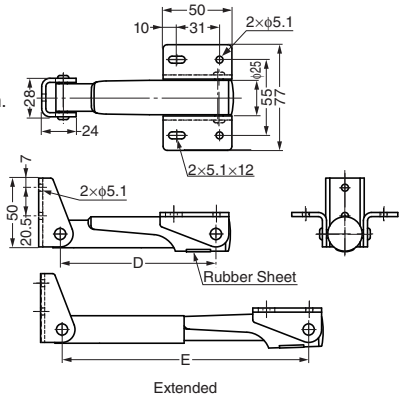


■Features

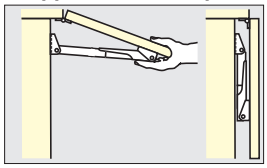
- Folding bracket with lock lever.
- Locks in opened position.
- Shelf thickness : 15 mm ～ 35 mm.

■Required Quantity

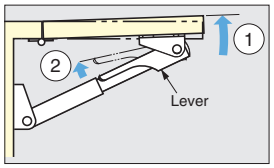
- Width up to 600 mm : 1 pc
- Width 600～ 1300 mm : 2 pcs

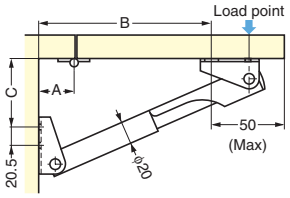


■Application Examples



■How to Release the Lock



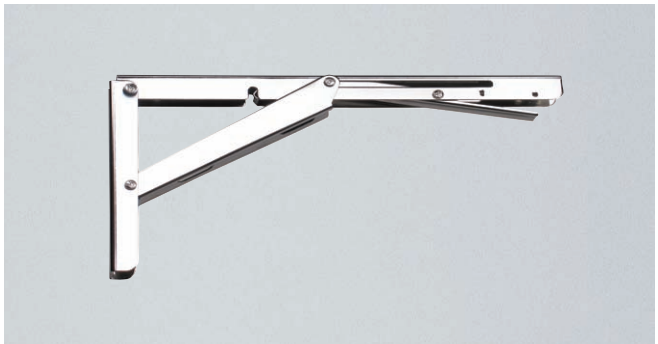


Item Code	Item Name	Material	Finish	A	B	C	D	E	Load Capacity		Weight	Box	Carton
120-105-060	38820-25	Aluminium Alloy	Anodized	25～30	161	15	114	180	343 N/pc	35 kgf/pc	149 g	5 pcs	50 pcs
120-105-061	38830-25	Aluminium Alloy	Anodized	25～39	252	45	168	275.9	539 N/pc	55 kgf/pc	187 g	5 pcs	50 pcs
120-105-062	38845-25	Aluminium Alloy	Anodized	25～50	402	87	258.5	430.8	588 N/pc	60 kgf/pc	266 g	5 pcs	30 pcs
120-105-063	38860-25	Aluminium Alloy	Anodized	25～40	549	137	368.5	585.8	784 N/pc	80 kgf/pc	342 g	5 pcs	30 pcs

FOLDING BRACKET

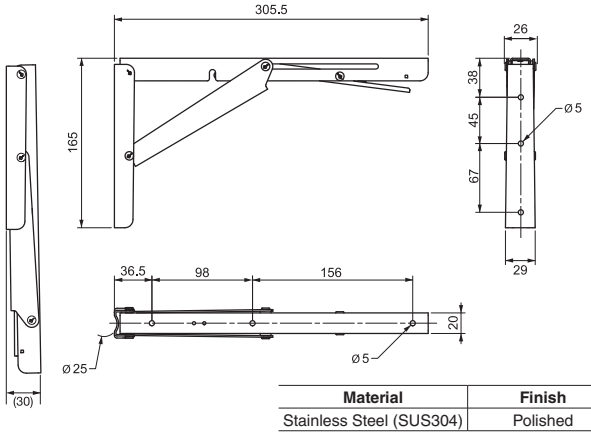
STAINLESS 304 STEEL

EB-303/EP



■Features

- Bracket with hinge function in one unit.
- Automatically locks when flap is in opened position.
- Press lever to release the lock.



Item Code	Item Name	Load Capacity	Weight	Carton
120-018-226	EB-303/EP	150 kgf/pc	479 g	25 pcs

Material	Finish
Stainless Steel (SUS304)	Polished

FOLDING BRACKET

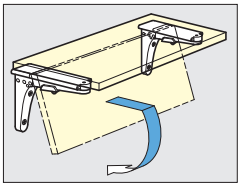
TEST METHOD 6 | STAINLESS 304 STEEL | STAINLESS

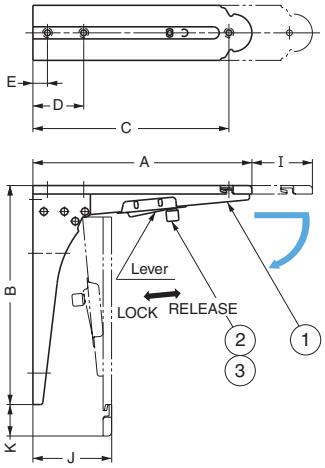
BOS-180, BOS-240

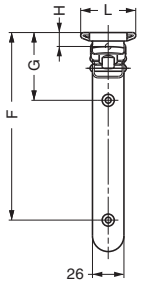


■Features

- Folding bracket with manual lock lever.
- Slide the locking lever to lock/unlock in open position.
- Bracket with hinge function in one unit.







■Parts Included

- BOS-180
  - Countersunk head tapping screw 4×20 (SUS)
  - Pan head tapping screw 4.5×25 (SUS)
  - Raised countersunk head tapping screw 4.5×25 (SUS)
  - Raised countersunk head tapping screw 4.5×50 (SUS)
- BOS-240
  - Countersunk head tapping screw 4×20 (SUS)
  - Pan head tapping screw 5×30 (SUS)
  - Raised countersunk head tapping screw 5×30 (SUS)
  - Raised countersunk head tapping screw 5×70 (SUS)

No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Satin
②	Lever	Brass	Nickel
③	Cover	Ethylene Propylene Rubber (EPDM)	Black

Item Code	Item Name	A	B	C	D	E	F	G	H	I	J	K	L	Load Capacity		Weight	Box	Carton
120-030-111	BOS-180	181	181	162	42	12	155	56	11.5	50	65	26	45.5	392 N/pc	40 kgf/pc	522 g	1 pc	20 pcs
120-030-090	BOS-240	240	250	215	80	25	220	70	15	64	81	29	49	325 N/pc	33 kgf/pc	860 g	1 pc	20 pcs

FOLDING BRACKET

STAINLESS 304 STEEL | STEEL | STAINLESS

BTO

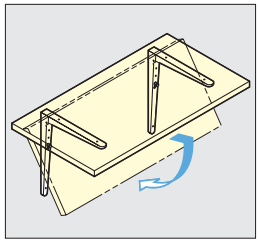


■Features

- Folding bracket with locking lever and indicator.
- Slide the locking bracket to lock/unlock in open position.
- Bracket with hinge function in one unit.

■Remarks

※BTO-380S, BTO-380W
: Made to order with a minimum order of 2,000 pcs.

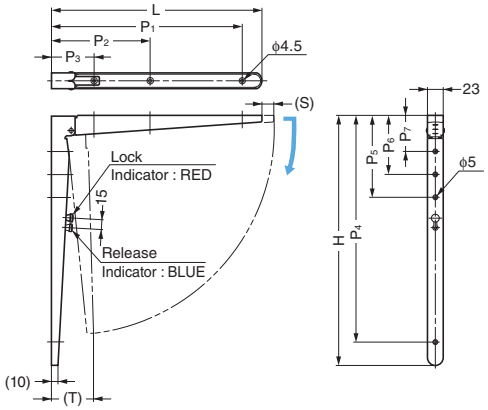


■Parts Included

- Countersunk head wood screw

Item Name	Shelf Board		Wall	
	Size	Qty	Size	Qty
BTO-300	3.5×20	1 pc	4.5×25	1 pc
	3.8×38	1 pc	4.5×45	2 pcs
BTO-380	3.5×25	1 pc	4.5×32	1 pc
	3.8×38	1 pc	4.5×50	3 pcs
	3.8×45	1 pc	—	—

Screw material: Stainless steel (Plain) for BTO-300S, BTO-380S.
Steel (White) for BTO-300W, BTO-380W.

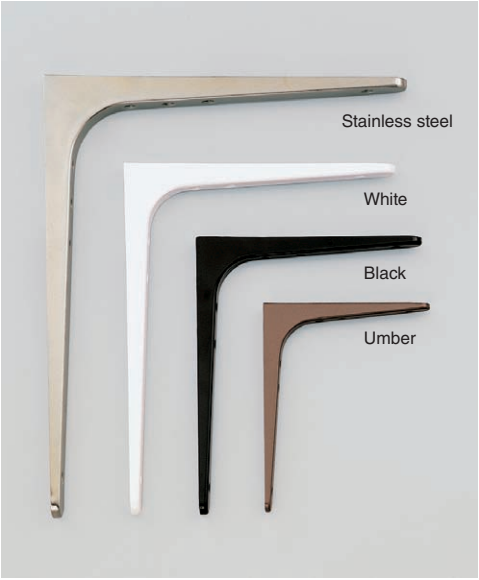


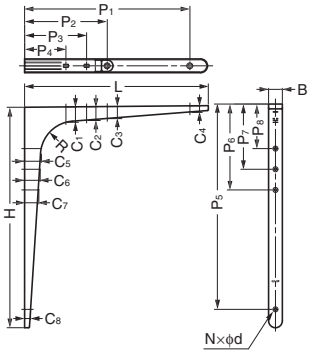
Item Code	Item Name	Material	Finish	H	L	P1	P2	P3	P4	P5	P6	P7	S	T	Load Capacity		Weight	Box	Carton
120-014-937	BTO-300S	Stainless Steel (SUS304)	Satin	300	241	211	—	61	270	80	50	—	15	57	400 N/pc	40.8 kgf/pc	550 g	2 pcs	20 pcs
120-030-091	BTO-300W	Steel	White	300	241	211	—	61	270	80	50	—	15	57	400 N/pc	40.8 kgf/pc	550 g	2 pcs	20 pcs
—	※BTO-380S	Stainless Steel (SUS304)	Satin	380	320	290	150	65	345	125	90	55	18	64	—	—	—	—	—
—	※BTO-380W	Steel	White	380	320	290	150	65	345	125	90	55	18	64	—	—	—	—	—

BRACKET

TEST METHOD 6 | STAINLESS 304 STEEL | STEEL | STAINLESS

BT, BTK



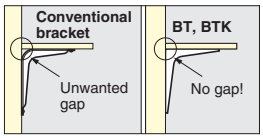


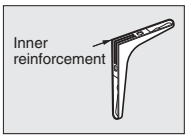
Features

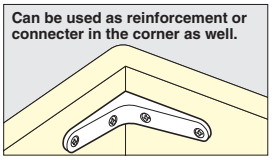
- Perfectly fits at the corner.
- Stainless steel (statin finish) and steel (white, black or umber) available.

Parts Included

Countersunk head wood screw







	Material	Finish	Screw
BT (Satin)	Stainless Steel (SUS304)	Satin	Stainless Steel
BTK (White)	Steel	White	White
BTK (Black)	Steel	Black	Black
BTK (Umber)	Steel	Umber	Umber

Item Code	Item Name	Finish/Colour	H	L	B	P1	P2	P3	P4	P5	P6	P7	P8	Load Capacity	Box	Carton
120-030-078	BT- 85	Satin	86	69	15	58	27	—	—	75	26	—	—	147 N/pc 15 kgf/pc	20 pcs	240 pcs
120-030-093	BTK- 85W	White	86	69	15	58	27	—	—	75	26	—	—	147 N/pc 15 kgf/pc	20 pcs	240 pcs
120-030-172	BTK- 85B	Black	86	69	15	58	27	—	—	75	26	—	—	147 N/pc 15 kgf/pc	20 pcs	240 pcs
120-030-189	BTK- 85UM	Umber	86	69	15	58	27	—	—	75	26	—	—	147 N/pc 15 kgf/pc	20 pcs	240 pcs
120-030-079	BT-120	Satin	120	100	15	85	43	—	—	106	42	—	—	196 N/pc 20 kgf/pc	20 pcs	100 pcs
120-030-094	BTK-120W	White	120	100	15	85	43	—	—	106	42	—	—	196 N/pc 20 kgf/pc	20 pcs	100 pcs
120-030-173	BTK-120B	Black	120	100	15	85	43	—	—	106	42	—	—	196 N/pc 20 kgf/pc	20 pcs	100 pcs
120-030-190	BTK-120UM	Umber	120	100	15	85	43	—	—	106	42	—	—	196 N/pc 20 kgf/pc	20 pcs	100 pcs
120-030-080	BT-180	Satin	180.5	148.5	15	131	71	50	—	162.5	72.5	51.5	—	245 N/pc 25 kgf/pc	20 pcs	—
120-030-095	BTK-180W	White	180.5	148.5	15	131	71	50	—	162.5	72.5	51.5	—	245 N/pc 25 kgf/pc	20 pcs	—
120-030-174	BTK-180B	Black	180.5	148.5	15	131	71	50	—	162.5	72.5	51.5	—	245 N/pc 25 kgf/pc	20 pcs	—
120-030-191	BTK-180UM	Umber	180.5	148.5	15	131	71	50	—	162.5	72.5	51.5	—	245 N/pc 25 kgf/pc	20 pcs	—
120-030-081	BT-240	Satin	240	199	18	176	91	59	—	217	92	60	—	274.4 N/pc 28 kgf/pc	10 pcs	—
120-030-096	BTK-240W	White	240	199	18	176	91	59	—	217	92	60	—	274.4 N/pc 28 kgf/pc	10 pcs	—
120-030-175	BTK-240B	Black	240	199	18	176	91	59	—	217	92	60	—	274.4 N/pc 28 kgf/pc	10 pcs	—
120-030-192	BTK-240UM	Umber	240	199	18	176	91	59	—	217	92	60	—	274.4 N/pc 28 kgf/pc	10 pcs	—
120-030-082	BT-300	Satin	301	238.5	20	206.5	92.5	60.5	—	269	95	63	—	343 N/pc 35 kgf/pc	10 pcs	—
120-030-097	BTK-300W	White	301	238.5	20	206.5	92.5	60.5	—	269	95	63	—	343 N/pc 35 kgf/pc	10 pcs	—
120-030-176	BTK-300B	Black	301	238.5	20	206.5	92.5	60.5	—	269	95	63	—	343 N/pc 35 kgf/pc	10 pcs	—
120-030-193	BTK-300UM	Umber	301	238.5	20	206.5	92.5	60.5	—	269	95	63	—	343 N/pc 35 kgf/pc	10 pcs	—
120-030-083	BT-380	Satin	378	318	23	285	145	110	75	345	145	110	75	637 N/pc 65 kgf/pc	10 pcs	40 pcs
120-030-085	BTK-380W	White	378	318	23	285	145	110	75	345	145	110	75	637 N/pc 65 kgf/pc	10 pcs	40 pcs
120-030-177	BTK-380B	Black	378	318	23	285	145	110	75	345	145	110	75	637 N/pc 65 kgf/pc	10 pcs	40 pcs
120-030-194	BTK-380UM	Umber	378	318	23	285	145	110	75	345	145	110	75	637 N/pc 65 kgf/pc	10 pcs	40 pcs
120-030-155	BT-480	Satin	480	400	30	360	180	135	90	440	180	135	90	808.5 N/pc 82.5 kgf/pc	6 pcs	—
120-030-156	BTK-480W	White	480	400	30	360	180	135	90	440	180	135	90	808.5 N/pc 82.5 kgf/pc	6 pcs	—
120-030-178	BTK-480B	Black	480	400	30	360	180	135	90	440	180	135	90	808.5 N/pc 82.5 kgf/pc	6 pcs	—
120-030-195	BTK-480UM	Umber	480	400	30	360	180	135	90	440	180	135	90	808.5 N/pc 82.5 kgf/pc	6 pcs	—

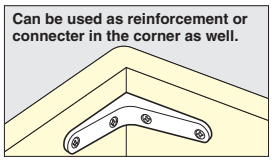
Item Name	d	Holes N	C1	C2	C3	C4	C5	C6	C7	C8	R	Screw (Countersunk Head Wood Screw)	Weight
BT - 85	4	4	—	—	(9)	(5)	—	—	(12)	(5)	(25)	3.5×16 (3 pcs), 3.5×25 (1 pc)	46 g
BTK- 85	4	4	—	—	(9)	(5)	—	—	(12)	(5)	(25)	3.5×16 (3 pcs), 3.5×25 (1 pc)	46 g
BT -120	4	4	—	—	(10)	(5)	—	—	(13)	(5)	(25)	3.5×16 (3 pcs), 3.5×25 (1 pc)	65 g
BTK-120	4	4	—	—	(10)	(5)	—	—	(13)	(5)	(25)	3.5×16 (3 pcs), 3.5×25 (1 pc)	65 g
BT -180	4	6	—	(14)	(12)	(5)	—	(15)	(13)	(5)	(30)	3.5×16 (2 pcs), 3.5×20 (1 pc), 3.5×25 (1 pc), 3.8×32 (2 pcs)	124 g
BTK-180	4	6	—	(14)	(12)	(5)	—	(15)	(13)	(5)	(30)	3.5×16 (2 pcs), 3.5×20 (1 pc), 3.5×25 (1 pc), 3.8×32 (2 pcs)	124 g
BT -240	4	6	—	(16)	(13)	(8)	—	(16)	(14)	(7.5)	(35)	3.5×16 (2 pcs), 3.5×20 (1 pc), 3.5×25 (1 pc), 3.8×32 (2 pcs)	237 g
BTK-240	4	6	—	(16)	(13)	(8)	—	(16)	(14)	(7.5)	(35)	3.5×16 (2 pcs), 3.5×20 (1 pc), 3.5×25 (1 pc), 3.8×32 (2 pcs)	237 g
BT -300	4	6	—	(19.5)	(17)	(8)	—	(19)	(17.5)	(9)	(35)	3.5×16 (1 pc), 3.5×25 (2 pcs), 3.5×32 (1 pc), 3.8×38 (2 pcs)	323 g
BTK-300	4	6	—	(19.5)	(17)	(8)	—	(19)	(17.5)	(9)	(35)	3.5×16 (1 pc), 3.5×25 (2 pcs), 3.5×32 (1 pc), 3.8×38 (2 pcs)	323 g
BT -380	5	8	(22.5)	(20)	(18)	(8.5)	(25)	(20)	(18)	(10)	(50)	3.5×20 (1 pc), 3.8×32 (3 pcs), 4.5×25 (1 pc), 4.5×38 (2 pcs), 4.5×45 (1 pc)	519 g
BTK-380	5	8	(22.5)	(20)	(18)	(8.5)	(25)	(20)	(18)	(10)	(50)	3.5×20 (1 pc), 3.8×32 (3 pcs), 4.5×25 (1 pc), 4.5×38 (2 pcs), 4.5×45 (1 pc)	519 g
BT -480	5.5	8	(35)	(30)	(27)	(14)	(37)	(33)	(30)	(13)	(70)	5×30 (2 pcs), 5×40 (2 pcs), 5×50 (3 pcs), 5×60 (1 pc)	1230 g
BTK-480	5.5	8	(35)	(30)	(27)	(14)	(37)	(33)	(30)	(13)	(70)	5×30 (2 pcs), 5×40 (2 pcs), 5×50 (3 pcs), 5×60 (1 pc)	1230 g

BRACKET

TEST METHOD 6 | STAINLESS 304 STEEL | STEEL | STAINLESS

TT, TTK



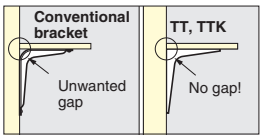


Features

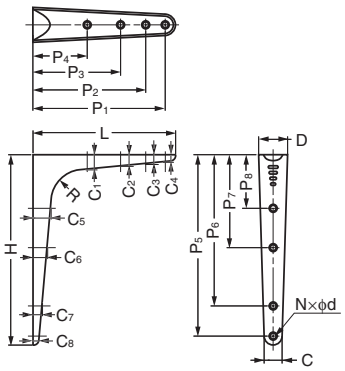
- Perfectly fits at the corner.
- Heavy duty type.

Parts Included

- Raised countersunk head screw
- Screw cover







	Material	Finish
TT	Stainless Steel (SUS304)	Satin
TTK (White)	Steel	Powder coating/White
TTK (Black)	Steel	Powder coating/Black
TTK (Champagne Gold)	Steel	Champagne Gold

Item Code	Item Name	Finish/Colour	H	L	C	D	P1	P2	P3	P4	P5	P6	P7	P8	d	Holes N	Load Capacity		Weight	Box
120-031-615	TT -200	Satin	200	150	18	23	130	—	—	65	180	—	100	65	4.6	5	245 N/pc	25 kgf/pc	174 g	20 pcs
120-031-600	TTK-200W	White	200	150	18	23	130	—	—	65	180	—	100	65	4.6	5	245 N/pc	25 kgf/pc	204 g	20 pcs
120-031-605	TTK-200B	Black	200	150	18	23	130	—	—	65	180	—	100	65	4.6	5	245 N/pc	25 kgf/pc	204 g	20 pcs
120-031-610	TTK-200CG	Champagne Gold	200	150	18	23	130	—	—	65	180	—	100	65	4.6	5	245 N/pc	25 kgf/pc	204 g	20 pcs
120-031-616	TT -250	Satin	250	200	20	25	180	—	100	75	230	—	120	75	4.6	6	274.4 N/pc	28 kgf/pc	291 g	12 pcs
120-031-601	TTK-250W	White	250	200	20	25	180	—	100	75	230	—	120	75	4.6	6	274.4 N/pc	28 kgf/pc	301 g	12 pcs
120-031-606	TTK-250B	Black	250	200	20	25	180	—	100	75	230	—	120	75	4.6	6	274.4 N/pc	28 kgf/pc	301 g	12 pcs
120-031-611	TTK-250CG	Champagne Gold	250	200	20	25	180	—	100	75	230	—	120	75	4.6	6	274.4 N/pc	28 kgf/pc	301 g	12 pcs
120-031-617	TT -300	Satin	300	250	23	28	230	—	120	80	280	230	130	80	4.6	7	343 N/pc	35 kgf/pc	316 g	12 pcs
120-031-602	TTK-300W	White	300	250	23	28	230	—	120	80	280	230	130	80	4.6	7	343 N/pc	35 kgf/pc	398 g	12 pcs
120-031-607	TTK-300B	Black	300	250	23	28	230	—	120	80	280	230	130	80	4.6	7	343 N/pc	35 kgf/pc	398 g	12 pcs
120-031-612	TTK-300CG	Champagne Gold	300	250	23	28	230	—	120	80	280	230	130	80	4.6	7	343 N/pc	35 kgf/pc	398 g	12 pcs
120-031-618	TT -350	Satin	350	300	25	30	280	230	135	85	330	265	150	85	5.5	8	637 N/pc	65 kgf/pc	571 g	10 pcs
120-031-603	TTK-350W	White	350	300	25	30	280	230	135	85	330	265	150	85	5.5	8	637 N/pc	65 kgf/pc	782 g	10 pcs
120-031-608	TTK-350B	Black	350	300	25	30	280	230	135	85	330	265	150	85	5.5	8	637 N/pc	65 kgf/pc	782 g	10 pcs
120-031-613	TTK-350CG	Champagne Gold	350	300	25	30	280	230	135	85	330	265	150	85	5.5	8	637 N/pc	65 kgf/pc	782 g	10 pcs
120-031-619	TT -450	Satin	450	400	30	35	380	310	160	90	430	350	170	90	5.5	8	808.5 N/pc	82.5 kgf/pc	832 g	6 pcs
120-031-604	TTK-450W	White	450	400	30	35	380	310	160	90	430	350	170	90	5.5	8	808.5 N/pc	82.5 kgf/pc	1059 g	6 pcs
120-031-609	TTK-450B	Black	450	400	30	35	380	310	160	90	430	350	170	90	5.5	8	808.5 N/pc	82.5 kgf/pc	1059 g	6 pcs
120-031-614	TTK-450CG	Champagne Gold	450	400	30	35	380	310	160	90	430	350	170	90	5.5	8	808.5 N/pc	82.5 kgf/pc	1059 g	6 pcs

Item Name	C1	C2	C3	C4	C5	C6	C7	C8	R	Screw
TT -200	(15.5)	—	—	(8)	(16.5)	(14)	—	(8)	(30)	4×30 (2 pcs), 4×40 (3 pcs)
TT -250	(16.5)	(13.5)	—	(8)	(17)	(14.5)	—	(8)	(35)	4×30 (4 pcs), 4×50 (2 pcs)
TT -300	(23.5)	(19.5)	—	(10)	(22.5)	(19.5)	(12)	(8.5)	(35)	4×30 (3 pcs), 4×40 (2 pcs), 4×50 (2 pcs)
TT -350	(30)	(24.5)	(16)	(11)	(32)	(25.5)	(16.5)	(10.5)	(50)	5×30 (4 pcs), 5×45 (2 pcs), 5×60 (2 pcs)
TT -450	(37)	(30)	(17.5)	(11.5)	(37.5)	(30)	(17)	(11)	(70)	5×30 (4 pcs), 5×45 (2 pcs), 5×60 (2 pcs)
TTK-200	(15.5)	—	—	(8)	(16.5)	(14)	—	(8)	(30)	4×30 (2 pcs), 4×40 (3 pcs)
TTK-250	(16.5)	(13.5)	—	(8)	(17)	(14.5)	—	(8)	(35)	4×30 (4 pcs), 4×50 (2 pcs)
TTK-300	(23.5)	(19.5)	—	(10)	(22.5)	(19.5)	(12)	(8.5)	(35)	4×30 (3 pcs), 4×40 (2 pcs), 4×50 (2 pcs)
TTK-350	(30)	(24.5)	(16)	(11)	(32)	(25.5)	(16.5)	(10.5)	(50)	5×30 (4 pcs), 5×45 (2 pcs), 5×60 (2 pcs)
TTK-450	(37)	(30)	(17.5)	(11.5)	(37.5)	(30)	(17)	(11)	(70)	5×30 (4 pcs), 5×45 (2 pcs), 5×60 (2 pcs)

SHELF ORGANIZERS DIGEST

STAINLESS STEEL — SP, SPS

- Pitch 15 mm
- w/Numbering

Item Name	Shelf Standard SP, SPS	Hook SP-35	Shelf Support SPB-15R	Shelf Support SPB-20	Shelf Support SPF-20
Load Capacity N (kgf)	—	49 (5)	980 (100)	441 (45)	785 (80)
Material	Stainless Steel (SUS304)	Zinc Alloy (ZDC)	Stainless Steel (SUS304)/Elastomer	Stainless Steel (SUS304)	Stainless Steel (SUS304)
Finish/Colour	Satin, White	Nickel	Satin/Black	Satin, White	Satin, White
Page	P.166	P.166	P.166	P.167	P.167

Item Name	Leveling Shelf Support SPF-20LC	Shelf Holder SPF-20A	Bracket SPB-200	End Cap SP-18E	End Cap SPW-EC20
Load Capacity N (kgf)	785 (80)	—	98 (10)/2 pcs, 147 (15)/3 pcs	—	—
Material	Stainless Steel (SUS304)/Silicon (Si)	Polyethylene (PE)	Stainless Steel (SUS304)/Polypropylene (PP)	ABS	Polypropylene (PP)
Finish/Colour	Satin/Natural	White	Satin/White	Black, White	White, Brown
Page	P.168	P.168	P.168	P.171	P.179

STAINLESS STEEL — SM

- Pitch 15 mm
- w/Numbering

Item Name	Shelf Standard SM	Shelf Support SMB-15R	Shelf Support SPM-20B	End Cap SP-18E	End Cap SPW-EC20
Load Capacity N (kgf)	—	883 (90)	588 (60)	—	—
Material	Stainless Steel (SUS304)	Stainless Steel (SUS304)	Stainless Steel (SUS304)	ABS	Polypropylene (PP)
Finish/Colour	Satin	Satin	Satin	Black, White	White, Brown
Page	P.169	P.169	P.169	P.171	P.179

STAINLESS STEEL (HEAVY DUTY TYPE) — SPH

- Pitch 22 mm
- w/Numbering
- Heavy Duty

Item Name	Shelf Standard SPH	Shelf Support SPH-20	Shelf Support SPH-5	Shelf Support SPH-15	End Cap SP-18E	End Cap SPW-EC20
Load Capacity N (kgf)	—	1280 (130)	1280 (130)	1280 (130)	—	—
Material	Stainless Steel (SUS304)	Stainless Steel (SUS304)/Rubber (NBR)	Stainless Steel (SUS304)/Rubber (NBR)	Stainless Steel (SUS304)	ABS	Polypropylene (PP)
Finish/Colour	Satin	Satin/Black	Satin/Black	Satin	Black, White	White, Brown
Page	P.170	P.170	P.171	P.171	P.171	P.179

STAINLESS STEEL (HEAVY DUTY TYPE) — SPHL

- Pitch 20 mm
- w/Numbering
- Heavy Duty

Item Name	Shelf Standard SPHL-1820	Shelf Support SPHL-30	Shelf Support SPHL-25	End Cap SPHL-23E
Load Capacity N (kgf)	—	1470 (150)	1470 (150)	—
Material	Stainless Steel (SUS304)	Stainless Steel (SUS304)/Elastomer	Stainless Steel (SUS304)	Polypropylene (PP)
Finish/Colour	Satin	Satin/Black	Satin	White, Black
Page	P.172	P.172	P.172	P.172

STAINLESS STEEL — SPN

- Pitch 22 mm
- w/Numbering

Item Name	Shelf Standard SPN-1820	Shelf Support SPN-15	End Cap SPN-17EC
Load Capacity N (kgf)	—	785 (80)	—
Material	Stainless Steel (SUS430)	Stainless Steel (SUS304)	Polypropylene (PP)
Finish/Colour	Satin	Polished	White
Page	P.173	P.173	P.173

SHELF ORGANIZERS DIGEST

STAINLESS STEEL — SPW

STAINLESS 430 STEEL · STAINLESS 304 STEEL

- Pitch 20 mm
- w/Numbering
- w/Cover

Item Name	Shelf Standard SPW-1820	Shelf Support SPW-20	End Cap SPW-EC20	End Cap SP-18E
Load Capacity N (kgf)	–	785 (80)	–	–
Material	Stainless Steel (SUS430)	Stainless Steel (SUS304)/Elastomer	Polypropylene (PP)	ABS
Finish/Colour	Satin	Mirror/White, Brown	White, Brown	Black, White
Page	P.179	P.179	P.179	P.171

STAINLESS STEEL — SPE

STAINLESS 430 STEEL

- Pitch 20 mm
- w/Numbering
- Thin

Item Name	Shelf Standard SPE	Shelf Support SPE-FB20S	End Cap AP-EC20	Shelf Holder AP-FA20	Shelf Holder with Angle Adjusting Function
Load Capacity N (kgf)	–	785 (80)	–	–	98 (10)
Material	Stainless Steel (SUS430)	Stainless Steel (SUS430)/Elastomer	ABS	Polyethylene (PE)	Polyacetal (POM)/Polyethylene (PE)
Finish/Colour	Plain, White, Black	Polished, White, Black	Light Grey, Black	White, Black	White
Page	P.174	P.174	P.176	P.177	P.178

ALUMINIUM — AP

- Pitch 20 mm

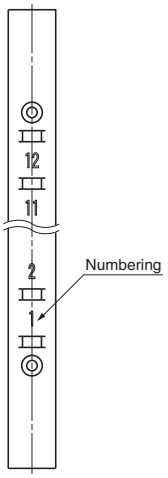
Item Name	Shelf Standard AP-DM, AP-DH	Shelf Support AP-FB20	Cap AP-FC20	End Cap AP-EC20	Shelf Holder AP-FA20	Shelf Holder with Angle Adjusting Function
Load Capacity N (kgf)	–	441 (45)	–	–	–	98 (10)
Material	Aluminium Alloy	Stainless Steel (SUS430)	Elastomer (TPE)	ABS	Polyethylene (PE)	Polyacetal (POM)/Polyethylene (PE)
Finish/Colour	Anodized Silver, White, Black	Mirror, Black	Light Grey, Black	Light Grey, Black	White, Black	White
Page	P.175	P.176	P.176	P.176	P.177	P.178

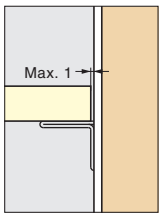
■Features

Numbering on shelf standards: Easy to adjust the height of shelf board to the same level.

■Remarks

- Make sure the clearance between shelf board and shelf standard is less than 1 mm.
- Load capacity: for 4 pcs /shelf board.

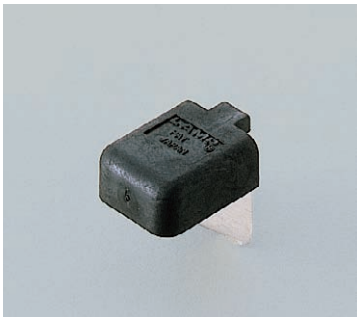


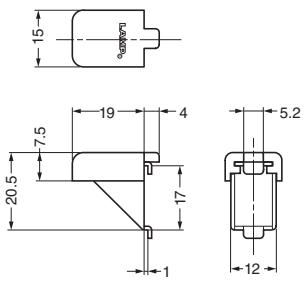


SHELF SUPPORT

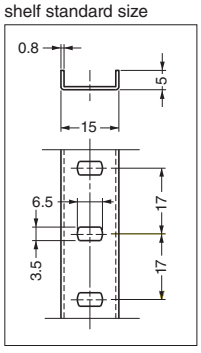
TEST METHOD 9 · STAINLESS 304 STEEL

SPB-17R





Applicable shelf standard size



■Features

Elastomer cover prevents shelf from slipping. Ideal for glass shelf.

Item Code	Item Name	Material	Finish
120-030-666	SPB-17R	Stainless Steel (SUS304)	Satin

Load Capacity/4 pcs		Weight	Box	Carton
294 N	30 kgf	6.9 g	200 pcs	2000 pcs

SHELF STANDARD

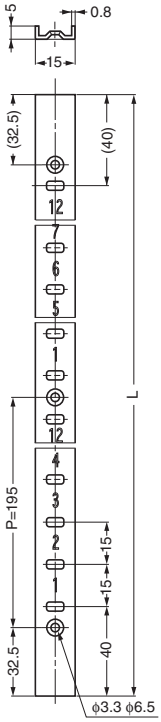
STAINLESS 430 STEEL STAINLESS 304 STEEL

SP, SPS





SP-1820WT



■Features

Numbering on shelf standards: Easy to adjust the height of shelf board to the same level.

■Sold Separately

- Hook for shelf standard SP-35 (P.166)
- Shelf support SPB-15R (P.166)
- Shelf support SPB-20 (P.167)
- Shelf support SPF-20 (P.167)
- Leveling shelf support SPF-20LC (P.168)
- Shelf holder SPB-200 (P.168)
- End cap SP-18E (P.171)
- End cap SPW-EC20 (P.179)

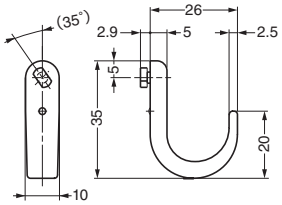
Item Code	Item Name	Material	Finish	L	Holes	Weight	Carton
120-030-685	SP- 455	Stainless Steel (SUS304)	Satin	455	3	57 g	60 pcs
120-030-686	SP- 650	Stainless Steel (SUS304)	Satin	650	4	81 g	60 pcs
120-030-687	SP- 845	Stainless Steel (SUS304)	Satin	845	5	105 g	60 pcs
120-030-688	SP-1040	Stainless Steel (SUS304)	Satin	1040	6	129 g	60 pcs
120-030-827	SP-1820	Stainless Steel (SUS304)	Satin	1820	10	222 g	60 pcs
120-030-692	SP-1820WT	Stainless Steel (SUS430)	White	1820	10	222 g	60 pcs
120-030-668	SP-2600	Stainless Steel (SUS304)	Satin	2600	14	317 g	30 pcs
120-030-669	SPS-1820	Stainless Steel (SUS430)	Satin	1820	10	222 g	60 pcs
120-030-667	SPS-2600	Stainless Steel (SUS430)	Satin	2600	14	317 g	30 pcs
120-018-227	※SPS-2600T	Stainless Steel (SUS430)	Satin	2600	14	317 g	30 pcs

※Without protection tape

HOOK FOR SHELF STANDARD

SP-35





■Features

- For SP and SPS (Above).
- Can be used with a vertical or horizontal standard.

■Application



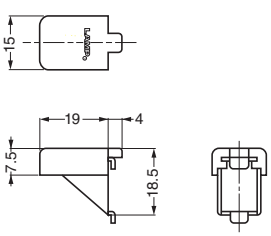
Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box	Carton
120-020-234	SP-35	Zinc Alloy (ZDC)	Nickel	49 N	5 kgf	15.5 g	150 pcs	600 pcs

SHELF SUPPORT

TEST METHOD 9 STAINLESS 304 STEEL

SPB-15R

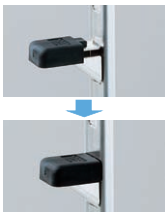




■Features

- For SP and SPS (Above).
- Elastomer cover prevents shelf from slipping. Ideal for glass shelf.

■Cover Installation



Item Code	Item Name	Material	Finish/Colour	Load Capacity/4 pcs		Weight	Box	Carton
120-049-026	SPB-15R	Stainless Steel (SUS304) /Elastomer (TPE)	Satin/Black	980 N	100 kgf	6 g	300 pcs	3000 pcs

SHELF SUPPORT

TEST METHOD 9 | STAINLESS 304 STEEL

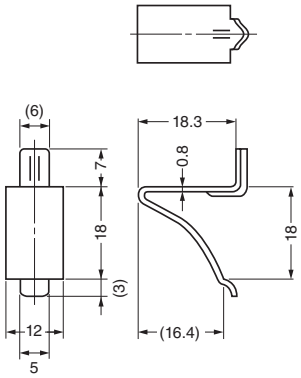
SPB-20


SPB-20

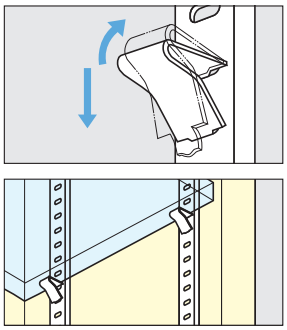

SPB-20WT

■Features

- For SP-1820 (P.166).
- Has resistance to vibration.



■Installation



Item Code	Item Name	Type	Material	Finish	Load Capacity/4 pcs		Weight	Box	Carton
120-030-015	SPB-20	With Protection Tape	Stainless Steel (SUS304)	Satin	441 N	45 kgf	3.6 g	300 pcs	3000 pcs
120-031-474	SPB-20T	Without Protection Tape	Stainless Steel (SUS304)	Satin	441 N	45 kgf	3.6 g	300 pcs	3000 pcs
120-030-693	SPB-20WT	Without Protection Tape	Stainless Steel (SUS304)	White	441 N	45 kgf	3.6 g	300 pcs	3000 pcs

SHELF SUPPORT

TEST METHOD 9 | STAINLESS 304 STEEL

SPF-20


SPF-20

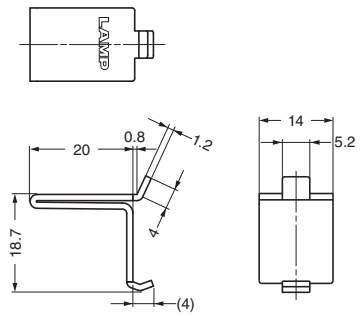

SPF-20WT

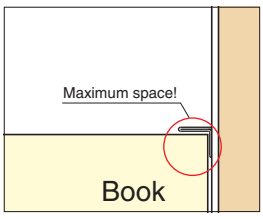
■Features

- For SP-1820 (P.166).
- Designed to maximize the space under the shelf.

■Sold Separately

Shelf holder SPF-20A (P.168)



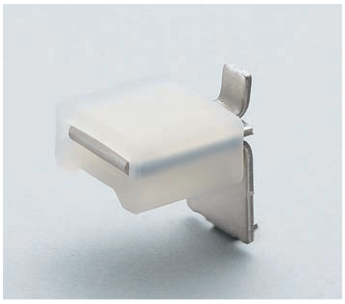


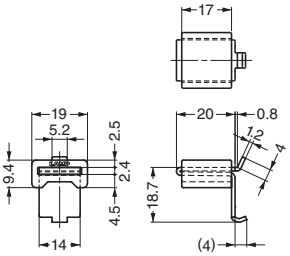
Item Code	Item Name	Type	Material	Finish/Colour	Load Capacity/4 pcs		Weight	Box	Carton
120-030-116	SPF-20	With Protection Tape	Stainless Steel (SUS304)	Satin	785 N	80 kgf	7 g	300 pcs	3000 pcs
120-030-117	SPF-20T	Without Protection Tape	Stainless Steel (SUS304)	Satin	785 N	80 kgf	7 g	300 pcs	3000 pcs
120-030-684	SPF-20WT	Without Protection Tape	Stainless Steel (SUS304)	White	785 N	80 kgf	7 g	300 pcs	3000 pcs

LEVELING SHELF SUPPORT

STAINLESS 304 STEEL TEST METHOD 9

SPF-20LC





■Features

- For SP and SPS (P.166).
- Shelf level is adjustable by turning the silicone cap upside down.
- Silicone cap prevents shelf from slipping. Ideal for glass shelves.

■Level Adjustment

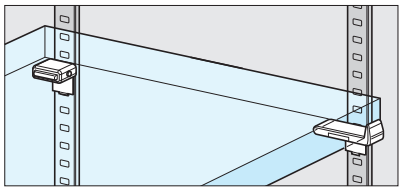


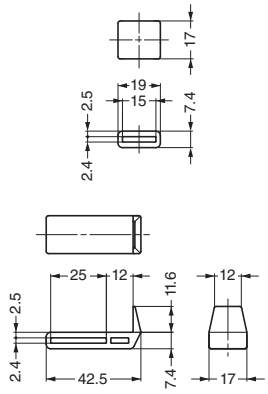
Item Code	Item Name	Material	Finish/Colour	Load Capacity/4 pcs		Weight	Box	Carton
120-030-335	SPF-20LC	Stainless Stee (SUS304) /Silicone (Si)	Satin/Natural	785 N	80 kgf	9.5 g	200 pcs	2000 pcs

SHELF HOLDER

SPF-20A







■Features

To be used together with SPF-20 (P.167).

■Remarks

One each of front and back holder as set.

Item Code	Item Name	Material	Colour	Weight	Box	Carton
120-040-548	SPF-20A	Polyethylene (PE)	White	4 g	100 pcs	2500 pcs

SHELF HOLDER

STAINLESS 304 STEEL

SPB-200

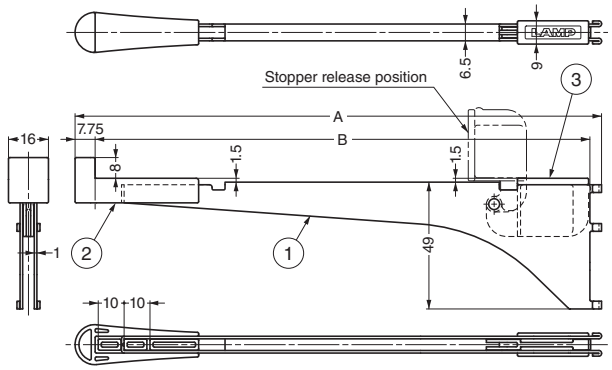


■Features

- For SP and SPS (P.166).
- Able to adjust depth in 3 different positions.
- With drop off prevention function.
- Can be used for glass shelf.

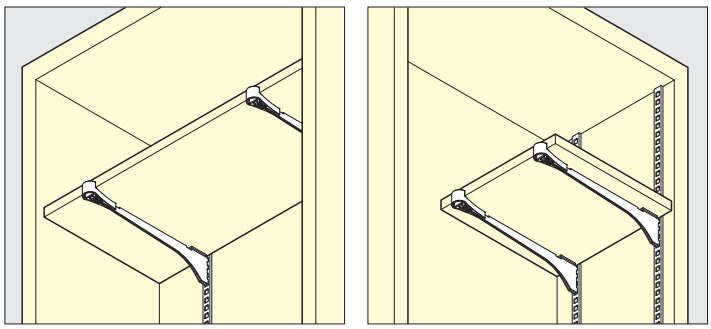
■Remarks

Maximum size of shelf board is Width 900 mm × Depth 200 mm.



No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Satin
②	Holder	Polypropylene (PP)	White
③	Stopper	Polypropylene (PP)	White

■Installation

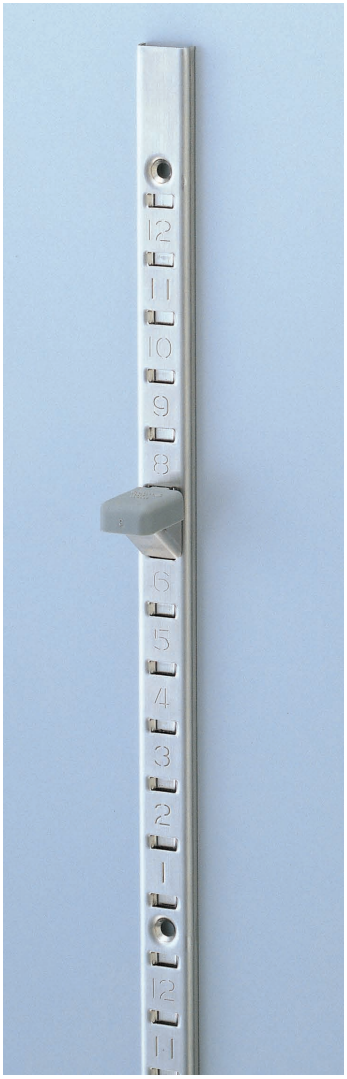


Item Code	Item Name	A	B (Board Depth)	Load Capacity/2 pcs		Load Capacity/3 pcs		Weight	Box
120-022-204	SPB-200	194, 204, 214	180, 190, 200	98 N/2 pcs	10 kgf/2 pcs	147 N/3 pcs	15 kgf/3 pcs	65 g	50 pcs

SHELF STANDARD

STAINLESS 304 STEEL

SM

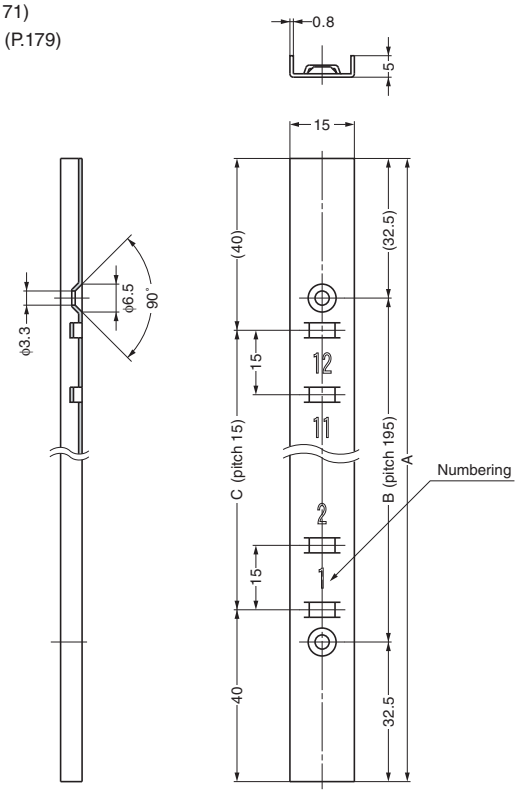


■Features

Numbering on shelf standards: Easy to adjust the height of shelf board to the same level.

■Sold Separately

- Shelf support SMB-15R (Below)
- Shelf support SMB-20B (Below)
- End cap SP-18E (P.171)
- End cap SPW-EC20 (P.179)



Item Code	Item Name	A	B	C	Material	Finish	Holes	Weight	Carton
120-030-675	SM-1820	1820	1755	1740	Stainless Steel (SUS304)	Satin	10	245 g	60 pcs
120-030-846	SM-2600	2600	2535	2520	Stainless Steel (SUS304)	Satin	14	352 g	30 pcs

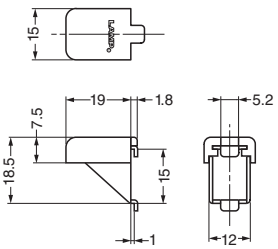
SHELF SUPPORT

TEST METHOD 9

STAINLESS 304 STEEL

SMB-15R





■Features

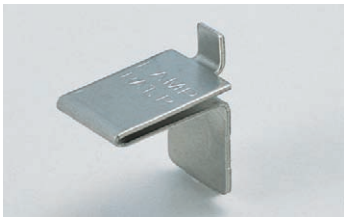
- For SM (Above).
- Elastomer cover prevents shelf from slipping.

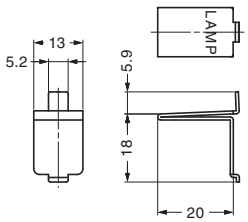
Item Code	Item Name	Material	Finish	Load Capacity/4 pcs		Weight	Box	Carton
120-030-674	SMB-15R	Stainless Steel (SUS304)	Satin	883 N	90 kgf	6 g	300 pcs	3000 pcs

SHELF SUPPORT

STAINLESS 304 STEEL

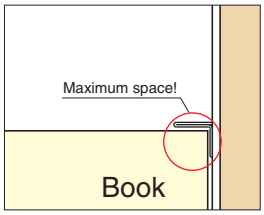
SPM-20B





■Features

- For SM (Above).
- Designed to maximize the space under the shelf.



Item Code	Item Name	Material	Finish	Load Capacity/4 pcs		Weight	Box	Carton
120-030-915	SPM-20B	Stainless Steel (SUS304)	Satin	588 N	60 kgf	5 g	300 pcs	3000 pcs

HEAVY DUTY SHELF STANDARD

STAINLESS 304 STEEL

SPH







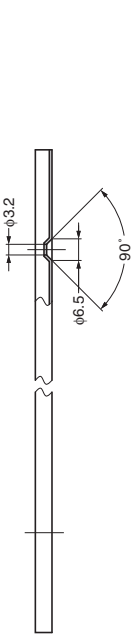


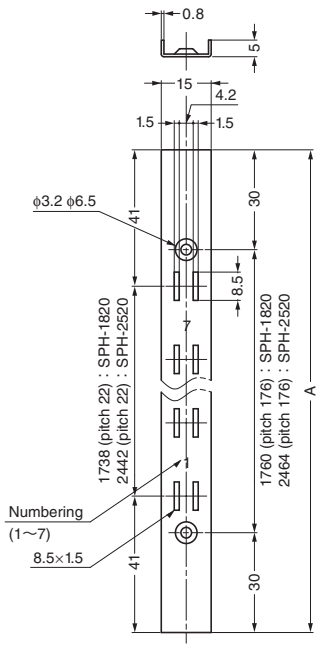
■Features

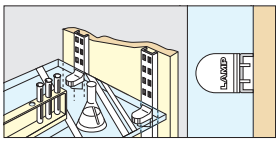
Numbering on shelf standards: Easy to adjust the height of shelf board to the same level.

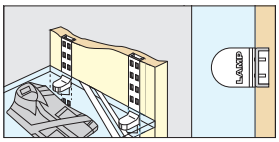
■Sold Separately

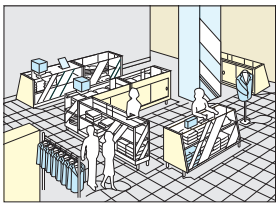
- Shelf support SPH-20 (Below)
- Shelf support SPH-5 (P.171)
- Shelf support SPH-15 (P.171)
- End cap SP-18E (P.171)
- End cap SPW-EC20 (P.179)











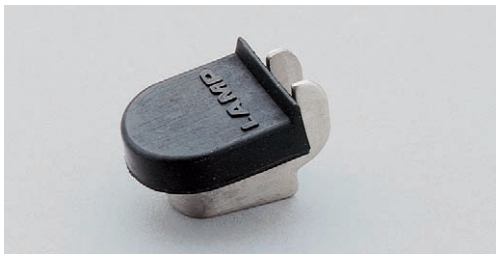
Item Code	Item Name	Material	Finish	A	Holes	Weight	Carton
120-030-673	SPH-1820	Stainless Steel (SUS304)	Satin	1820	11	230 g	80 pcs
120-030-682	SPH-2520	Stainless Steel (SUS304)	Satin	2524	15	330 g	30 pcs

SHELF SUPPORT

TEST METHOD 9

STAINLESS 304 STEEL

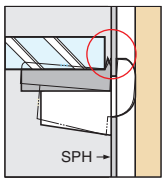
SPH-20



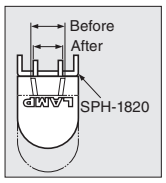
■Features

- For SPH (Above).
- Rubber cover prevents shelf from slipping.
- Has resistance to vibration.

■Key Points

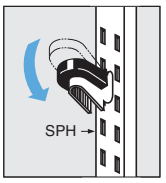


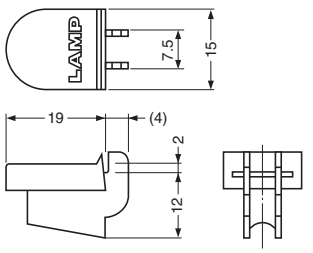
Glass shelf is not directly applied to the side board.



Prevents from coming off with spring effect.

■Installation



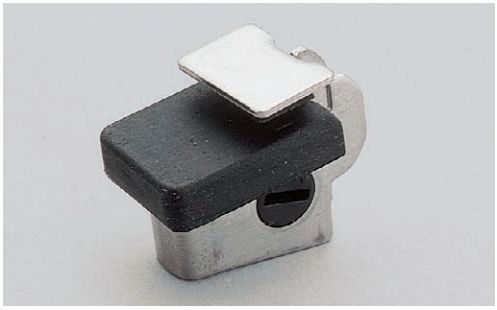


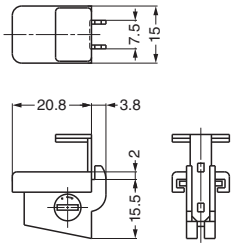
Item Code	Item Name	Material	Finish	Load Capacity/4 pcs		Weight	Box	Carton
120-041-375	SPH-20	Stainless Steel (SUS304)	Satin	1280 N	130 kgf	4.5 g	300 pcs	3000 pcs

SHELF SUPPORT (W/HOLDER)

STAINLESS 304 STEEL

SPH-5





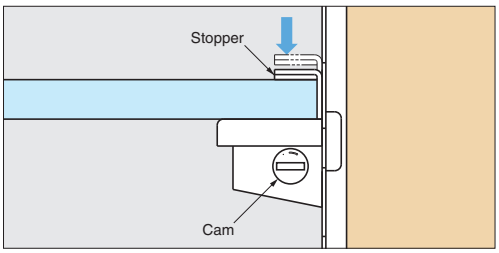
■Features

- For SPH (P.170).
- Rubber cover prevents shelf from slipping.
- Has resistance to vibration.

■Remarks

Suitable glass thickness: 4～8 mm

■Installation



Item Code	Item Name	Material	Finish	Load Capacity/4 pcs		Weight	Box	Carton
120-041-374	SPH-5	Stainless Steel (SUS304)	Satin	1280 N	130 kgf	8 g	100 pcs	1000 pcs

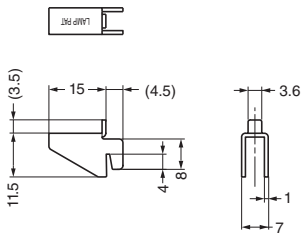
SHELF SUPPORT

TEST METHOD 9

STAINLESS 304 STEEL

SPH-15





■Features

For SPH (P.170).

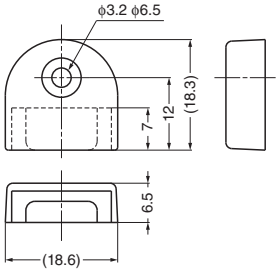
Item Code	Item Name	Material	Finish	Load Capacity/4 pcs		Weight	Box	Carton
120-030-665	SPH-15	Stainless Steel (SUS304)	Satin	1280 N	130 kgf	2.6 g	400 pcs	4000 pcs

END CAP

SP-18E







■Features

For SPH (P.170), SM (P.169), SP (P.166), SPW (P.179).

■Recommended Screws

Countersunk head wood screw 3.1

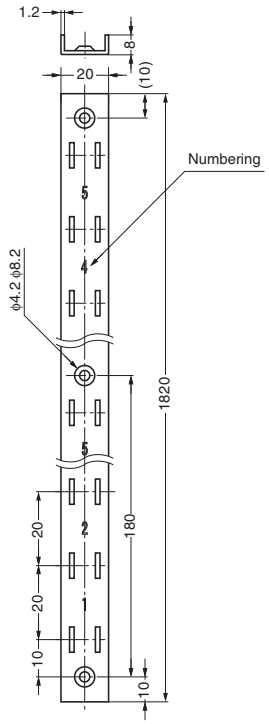
Item Code	Item Name	Colour	Material	Weight	Box	Carton
120-030-214	SP-18E-BL	Black	ABS	1 g	500 pcs	5000 pcs
120-030-215	SP-18E-WT	White	ABS	1 g	500 pcs	5000 pcs

HEAVY DUTY SHELF STANDARD

STAINLESS 304 STEEL

SPHL-1820





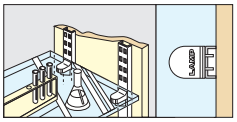
■Features

- Heavy duty shelf standard with 1.2 mm thickness.
- Easy to adjust the shelf level.

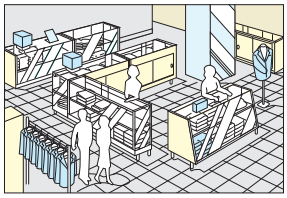
■Sold Separately

- Shelf support SPHL-25 (below)
- Shelf support SPHL-30 (below)
- End cap SPHL-23E (below)

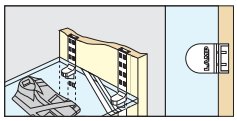
■Surface Mount



■Installation



■Mortise Mount



Item Code	Item Name	Material	Finish	Holes	Weight	Carton
120-030-912	SPHL-1820	Stainless Steel (SUS304)	Satin	11	500 g	30 pcs

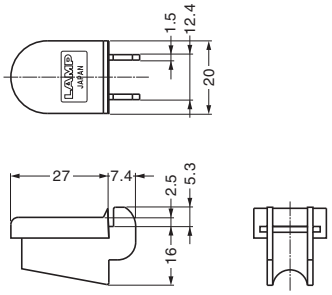
SHELF SUPPORT

TEST METHOD 9

STAINLESS 304 STEEL

SPHL-30





■Features

- For SPHL (Above).
- Rubber pad prevents glass shelf from sliding.
- Has resistance to vibration.

Item Code	Item Name	Material	Finish	Load Capacity/4 pcs		Weight	Box	Carton
120-030-913	SPHL-30	Stainless Steel (SUS304)	Satin	1470 N	150 kgf	12 g	100 pcs	1000 pcs

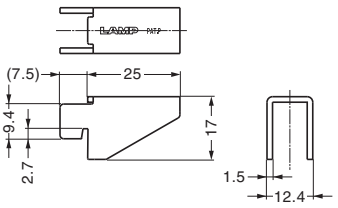
SHELF SUPPORT

TEST METHOD 9

STAINLESS 304 STEEL

SPHL-25





■Features

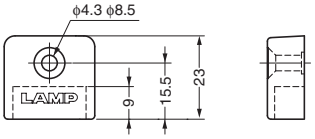
For SPHL (Above).

Item Code	Item Name	Material	Finish	Load Capacity/4 pcs		Weight	Box	Carton
120-030-914	SPHL-25	Stainless Steel (SUS304)	Satin	1470 N	150 kgf	11 g	200 pcs	1200 pcs

END CAP

SPHL-23E



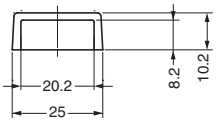


■Features

For SPHL (Above).

■Application Example





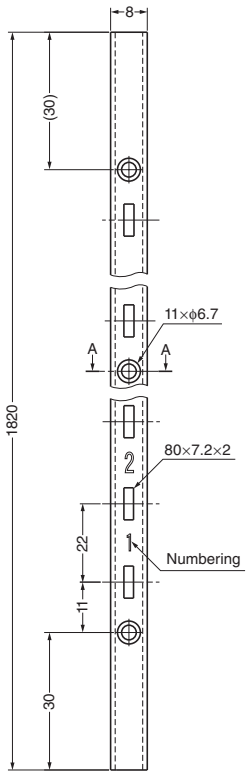
Item Code	Item Name	Material	Colour	Weight	Box	Carton
120-018-660	SPHL-23E-WT	Polypropylene (PP)	White	2 g	400 pcs	4000 pcs
120-018-661	SPHL-23E-BL	Polypropylene (PP)	Black	2 g	400 pcs	4000 pcs

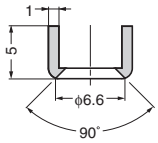
SHELF STANDARD

STAINLESS 430 STEEL

SPN-1820







A-A
Cutaway view

■Features

- Unique slim 8×5 profile.
- Easy to cut to desired length.

■Sold Separately

- Shelf support SPN-15 (below)
- End cap SPN-17EC (below)

■Recommended Screws

Countersunk head tapping screw 3 or countersunk head wood screw 3.1

Item Code	Item Name	Type	Material	Finish	Holes	Weight	Carton
120-017-129	SPN-1820	w/Numbering	Stainless Steel (SUS430)	Satin	11	205 g	60 pcs

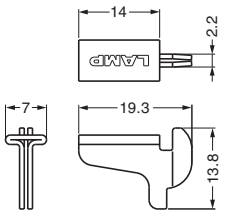
SHELF SUPPORT

TEST METHOD 9

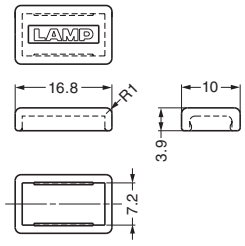
STAINLESS 304 STEEL

SPN-15





Shelf support



Cap for shelf support

■Features

For SPN-1820.

■Sold Separately

Cap for shelf support SPN-15C

■Cap for Shelf Support

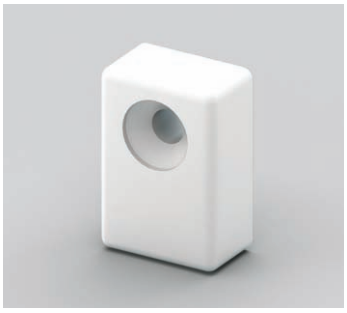
Item Code	Item Name	Material	Colour	Weight	Box	Carton
120-017-693	SPN-15C	Elastomer (TPE)	White	0.5 g	400 pcs	4000 pcs

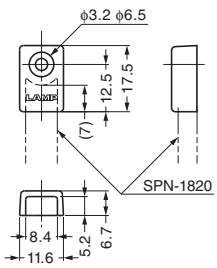
■Shelf Support

Item Code	Item Name	Material	Finish	Load Capacity/4 pcs		Weight	Box	Carton
120-017-692	SPN-15	Stainless Steel (SUS304)	Polished	785 N	80 kgf	2 g	400 pcs	2000 pcs

END CAP

SPN-17EC





■Features

For SPN-1820.

Item Code	Item Name	Material	Colour	Weight	Box	Carton
120-017-694	SPN-17EC	Polypropylene (PP)	White	0.9 g	400 pcs	4000 pcs

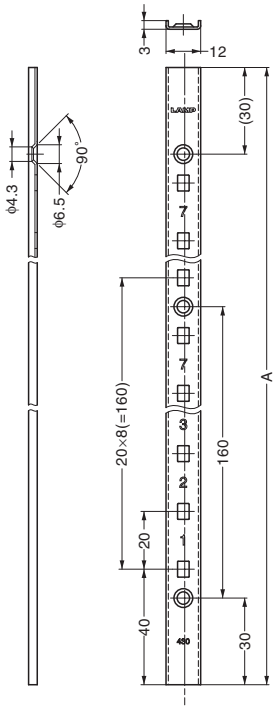
SHELF STANDARD

STAINLESS 430 STEEL

SPE







■Features

- 3 types colour (Plain, White & Black) available.
- Ultra thin shelf standard.

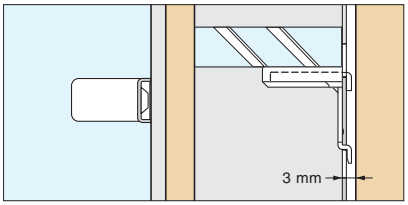
■Sold Separately

- Stainless steel shelf support SPE-FB20S (below)
- End cap AP-EC20 (P.176)

■Recommended Screws

Countersunk tapping screw 3 or countersunk wood screw 3.1

■Installation



Item Code	Item Name	Material	Finish	A	Screw Hole	Weight	Carton
120-019-532	SPE-1820	Stainless Steel (SUS430)	Plain	1820	12	156 g	100 pcs
120-020-757	SPE-1820WT	Stainless Steel (SUS430)	White	1820	12	156 g	100 pcs
120-025-833	SPE-1820BL	Stainless Steel (SUS430)	Black	1820	12	156 g	100 pcs
120-021-423	SPE-2620	Stainless Steel (SUS430)	Plain	2620	17	230 g	60 pcs

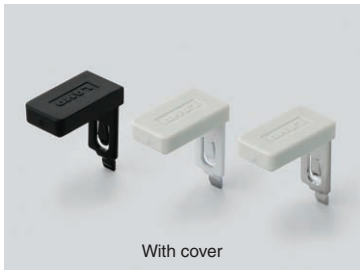
SHELF SUPPORT

TEST METHOD 9

STAINLESS 430 STEEL

SPE-FB20S



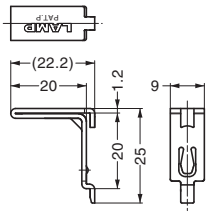


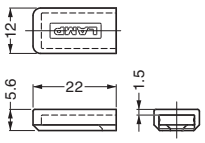
■Features

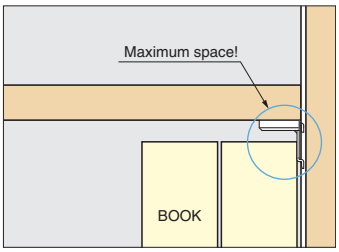
- 3 finishes (Plain, White & Black) available.
- For SPE shelf standard.
- Designed to maximize the space under the shelf.

■Sold Separately

- Shelf support cap AP-FC20 (P.176)
- Shelf holder AP-FA20 (P.177)
- Shelf holder AP-FK20 (P.178), AP-FK20C (P.177)







■Shelf Support

Item Code	Item Name	Material	Finish	Load Capacity/4 pcs		Weight	Box	Carton
120-020-903	SPE-FB20S	Stainless Steel (SUS430)	Polished	785 N	80 kgf	4.5 g	300 pcs	3000 pcs
120-021-678	SPE-FB20SWT	Stainless Steel (SUS430)	White	785 N	80 kgf	4.5 g	300 pcs	3000 pcs
120-025-834	SPE-FB20SBL	Stainless Steel (SUS430)	Black	785 N	80 kgf	4.5 g	300 pcs	3000 pcs

■Cover (Sold Separately)

Item Code	Item Name	Material	Colour	Weight	Box	Carton
120-019-642	SPE-FC20	Elastomer (TPE)	Light Grey	0.8 g	300 pcs	3000 pcs
120-028-504	SPE-FC20-BL	Elastomer (TPE)	Black	0.8 g	300 pcs	3000 pcs

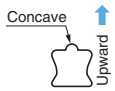
SHELF STANDARD (SURFACE MOUNT) AP-DM



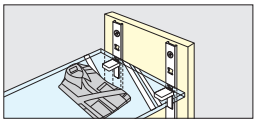


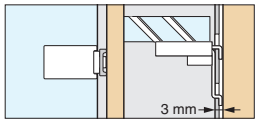
■Features

- Aluminium shelf standard.
- 3 finishes (Plain, White & Black) available.
- Easy to cut to desired length.
- Screw hole located every 120 mm.
- New slot shape to prevent shelf support from falling off.



■Application Example





■Sold Separately



Special screw in silver/white finish available.

■Sold Separately

- Shelf support AP-FB20 (P.176)
- End cap AP-EC20 (P.176)

1 set: 100 pcs

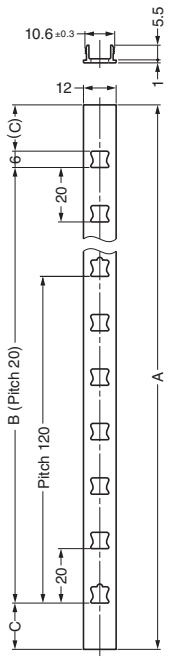
Item Code	Item Name	Screw	Finish
120-030-336	AP-SC3-16	Countersunk Head Tapping Screw 3×16	Paint/Silver
120-016-608	AP-SC3-16WT	Countersunk Head Tapping Screw 3×16	Paint/White
120-014-663	AP-SC3-30	Countersunk Head Tapping Screw 3×30	Paint/Silver
120-016-606	AP-SC3-30WT	Countersunk Head Tapping Screw 3×30	Paint/White
120-028-981	AP-SC3-16BL	Countersunk Head Tapping Screw 3×16	Paint/Black
120-028-982	AP-SC3-30BL	Countersunk Head Tapping Screw 3×30	Paint/Black

Material	Finish	Box
Steel	Body：Yellow Zinc Chromate Head：Paint/Silver, White, Black	100 sets

Item Code	Item Name	Type	A	B	C	D	E	Material	Finish	Holes	Weight	Carton
120-030-086	AP-DM1820	Surface Mount	1820	1800	10	1780	17	Aluminium Alloy	Anodized Silver	16	106 g	100 pcs
120-016-209	AP-DM1820WT	Surface Mount	1820	1800	10	1780	17	Aluminium Alloy	White	16	106 g	100 pcs
120-025-260	AP-DM1820BL	Surface Mount	1820	1800	10	1780	17	Aluminium Alloy	Black	16	106 g	100 pcs
120-030-087	AP-DM2600	Surface Mount	2600	2520	40	2500	47	Aluminium Alloy	Anodized Silver	22	150 g	60 pcs

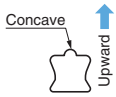
SHELF STANDARD (RECESSED MOUNT) AP-DH





■Features

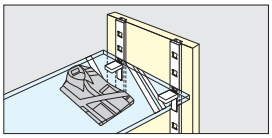
- Aluminium shelf standard.
- Easy to cut to desired length.
- Designed for press-fit mount without using screws.
- New slot shape to prevent shelf support from falling off.

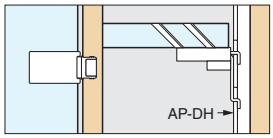


■Sold Separately

- Shelf support AP-FB20 (P.176)
- End cap AP-EC20 (P.176)

■Application Example





Item Code	Item Name	Type	A	B	C	Material	Finish	Weight	Carton
120-030-088	AP-DH1820	Recessed Mount	1820	1780	17	Aluminium Alloy	Anodized Silver	100 g	100 pcs
120-030-089	AP-DH2600	Recessed Mount	2600	2500	47	Aluminium Alloy	Anodized Silver	165 g	60 pcs

SHELF SUPPORT

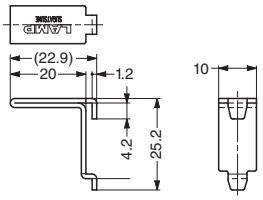
TEST METHOD 9 | STAINLESS 430 STEEL

AP-FB20

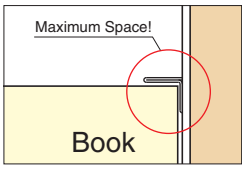


■Features
- Mirror & Black colour available.
- For AP-DM and AP-DH (P.175).
- Designed to maximize the space under the shelf.

■Sold Separately
- Shelf support cap AP-FC20 (below)
- Shelf holder AP-FA20 (P.177)
- Shelf holder AP-FK20 (P.178)



■Application Example

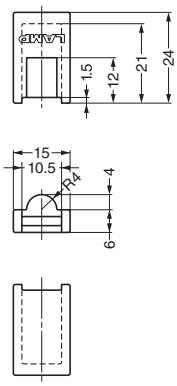


Item Code	Item Name	Material	Finish	Load Capacity/4 pcs		Weight	Box	Carton
120-030-158	AP-FB20	Stainless Steel (SUS430)	Mirror	441 N	45 kgf	5.3 g	300 pcs	3000 pcs
120-025-835	AP-FB20BL	Stainless Steel (SUS430)	Black	441 N	45 kgf	5.3 g	300 pcs	3000 pcs

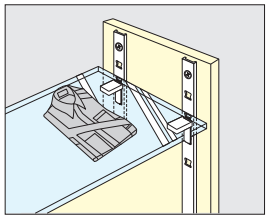
SHELF SUPPORT CAP

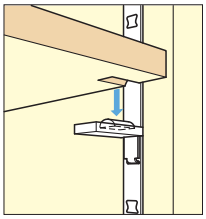
AP-FC20





■Features
- Light Grey & Black colour available.
- For shelf support AP-FB20.
- Insert the cap with half round shape facing up, and cutout the shelf to prevent from sliding.

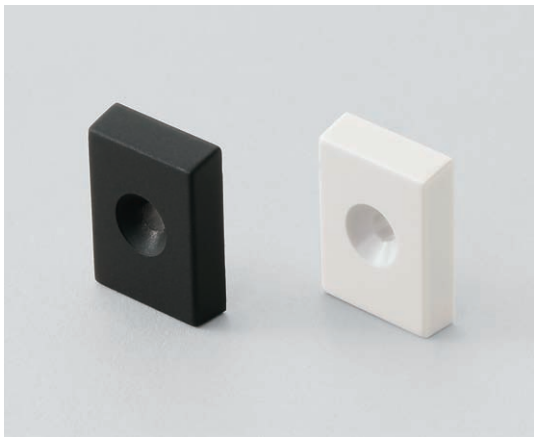


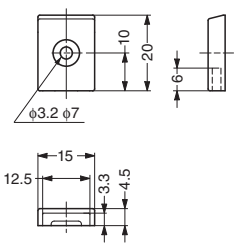


Item Code	Item Name	Material	Colour	Weight	Box	Carton
120-030-159	AP-FC20	Elastomer (TPE)	Light Grey	1.6 g	400 pcs	4000 pcs
120-028-502	AP-FC20-BL	Elastomer (TPE)	Black	1.6 g	400 pcs	4000 pcs

END CAP

AP-EC20





■Features
- Light Grey & Black colour available.
- For AP-DM (P.175) and SPE (P.174).

■Application Example



Item Code	Item Name	Material	Colour	Weight	Box	Carton
120-030-157	AP-EC20	ABS	Light Grey	1.0 g	400 pcs	4000 pcs
120-028-503	AP-EC20-BL	ABS	Black	1.0 g	400 pcs	4000 pcs

SHELF HOLDER

AP-FA20



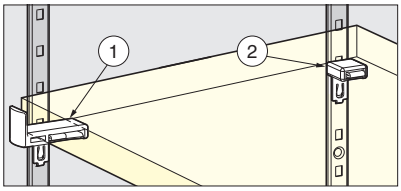
■**Features**

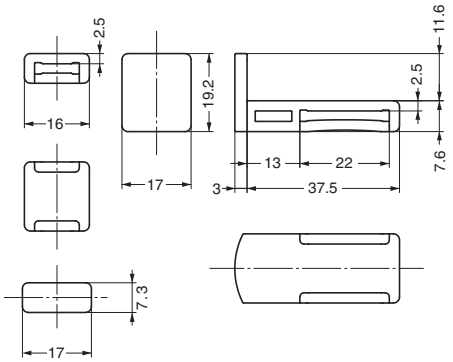
Use with SPE-FB20S (P.174), AP-FB20 (P.176).

■**Remarks**

Sold in sets (2 parts). 2 sets are necessary for 1 shelf.

■**Installation**





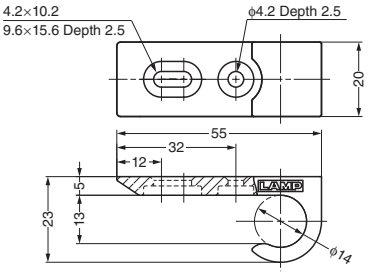
Shelf Support	Board Thickness	Distance (Centre of shelf standard to edge of the shelf board)	
		①	②
AP-FB20 (P.176)	Min.12	18 ～ 30	20
SPE-FB20S (P.174)	Min.12	17.5 ～ 30.5	21

Item Code	Item Name	Colour	Material	Weight	Box	Carton
120-024-539	AP-FA20-WT	White	Polyethylene (PE)	4.9 g	100 pcs	2500 pcs
120-026-164	AP-FA20-BL	Black	Polyethylene (PE)	4.9 g	100 pcs	2500 pcs

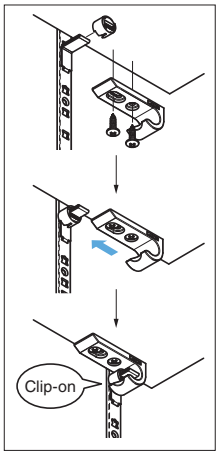
SHELF SUPPORT HOOK

AP-FK20D





■**How to Install**



■**Features**

- Shelf support hook to be used with dowel AP-FK20C and shelf support.
- Recommended angle: 0～ 60˚.
- Temporary holding feature.

■**Remarks**

- Used in pairs.
- Dowel AP-FK20C and shelf support is sold separately (See below).

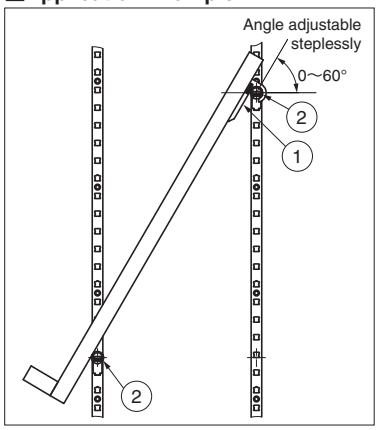
■**Parts Included**

Truss head tapping screw 4×16 (SUS) 2 pcs.

① AP-FK20D

② AP-FK20C (Sold separately)

■**Application Example**



Item Code	Item Name	Material	Colour	Door Thickness	Load Capacity		Weight	Box
120-030-482	AP-FK20D	Polyacetal (POM)	White	Min.18	294 N	30 kgf	12 g	40 pcs

※AP-FK20D × 2 pcs. / Angle: 60˚

DOWEL

AP-FK20C



■**Installation**

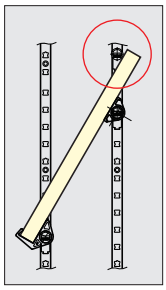


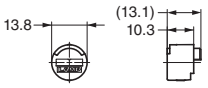
■**Features**

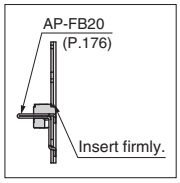
- Recommended to use extra pieces for AP-FK20 (P.178) to hold angled shelf.
- For SPE-FB20S (P.174) and AP-FB20 (P.176).

■**Remarks**

4 pcs are originally included in shelf holder AP-FK20.

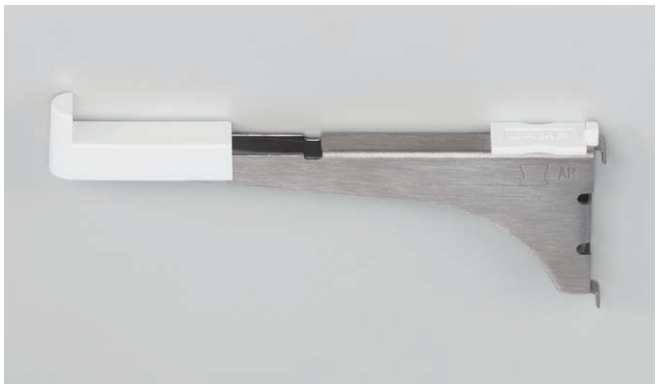


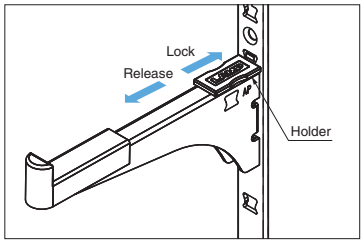


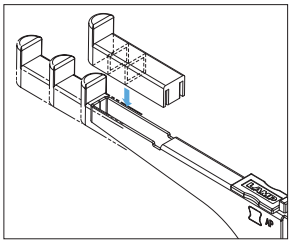


Item Code	Item Name	Colour	Material	Weight	Box
120-024-538	AP-FK20C	White	Polyethylene (PE)	1.0 g	1000 pcs

SHELF HOLDER (FOR AP-DM) AP-FB120







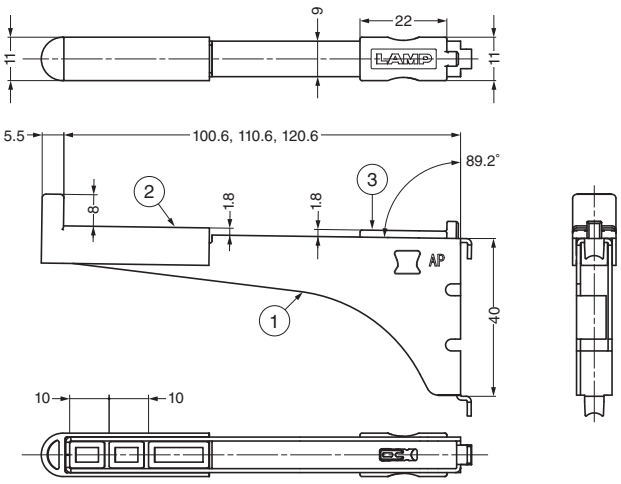
Depth is adjustable in 3 different positions.

■Features

- Shelf holder for AP-DM shelf standard (P.175).
- Able to adjust depth in 3 different positions.
- With drop off prevention function.
- Can be used for glass shelf.

■Remarks

- Maximum size of shelf board: Width 900 mm × 120 mm.
- Load capacity of below table is included the weight of the shelf board.



Item Code	Item Name	Load Capacity N /2 pcs	Load Capacity kgf /2 pcs	Weight
120-032-997	AP-FB120	49 N	5 kgf	33 g

No.	Parts Name	Material	Finish/Colour
①	Body	Stainless (SUS430)	Satin
②	Holder	Polypropylene (PP)	White
③	Stopper	Polypropylene (PP)	White

SHELF HOLDER WITH ANGLE ADJUSTING FUNCTION AP-FK20





■Features

- Stepless angle adjustment.
- For SPE-FB20S (P.174) and AP-FB20 (P.176).

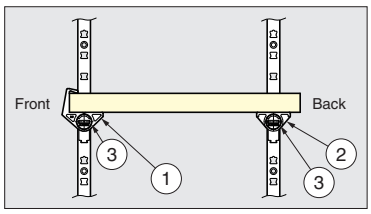
■Remarks

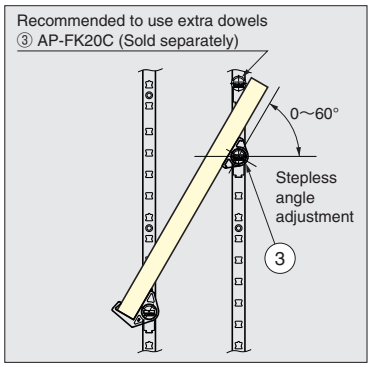
Sold in sets (① 2 pcs, ② 2 pcs, ③ AP-FK20C 4 pcs).

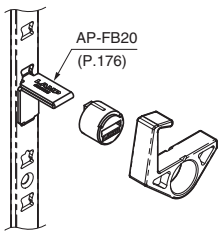
■Sold Separately: Extra Dowel

Dowel AP-FK20C (P.177) is sold separately for additional use.

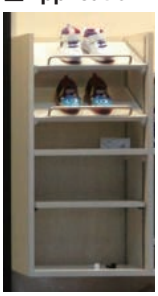
■Installation

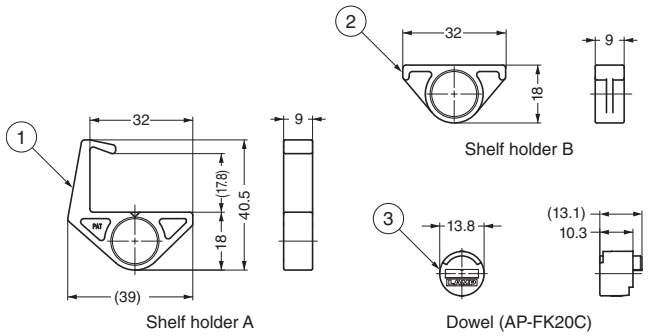






■Application Example





No.	Part Name	Colour	Material
①	Shelf Holder A	White	Polyacetal (POM)
②	Shelf Holder B	White	Polyacetal (POM)
③	Dowel	White	Polyethylene (PE)

Item Code	Item Name	Door Thickness	Load Capacity		Weight	Box
120-024-536	AP-FK20	18~20	98 N	10 kgf	20 g	200 sets

※AP-FK20×2 pcs./Angle: 60°

SHELF STANDARD

STAINLESS 430 STEEL

SPW-1820



■Features

- The shelf supports are adjustable every 20 mm.
- Screw holes and slots are concealed when used with cover (sold separately).

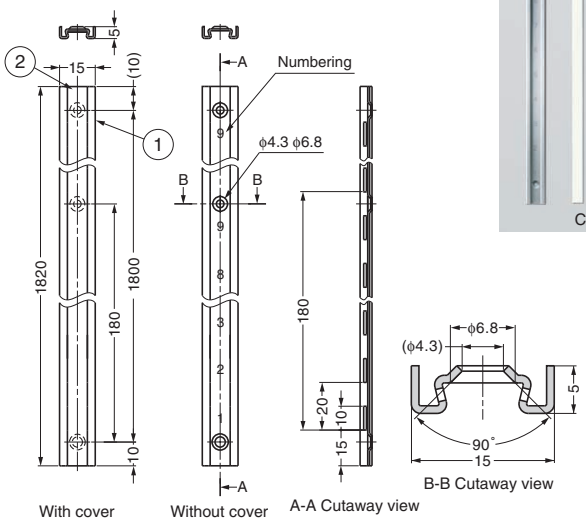
■Sold Separately

- Cover
- Shelf support SPW-20 (below)
- End cap SPW-EC20 (below)
- End cap SP-18E (P.171)

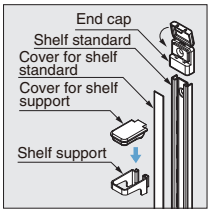
■Recommended Screws

Countersunk tapping screw 3





■Installation



No.	Part Name	Material	Finish/Colour
①	Shelf Standard	Stainless Steel (SUS430)	Satin
②	Cover	Rigid Polyvinyl Chloride	White, Brown

■Shelf Standard

Item Code	Item Name	Holes	Weight	Carton
120-017-699	SPW-1820	11	335 g	60 pcs

■Cover (Sold Separately)

Item Code	Item Name	Colour	Weight	Carton
120-017-817	SPW-CV1820-WT	White	8 g	1000 pcs
120-017-816	SPW-CV1820-BR	Brown	8 g	1000 pcs

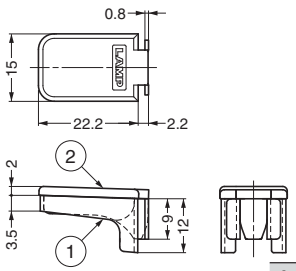
SHELF SUPPORT

TEST METHOD 9

STAINLESS 304 STEEL

SPW-20





■Features

- For SPW-1820.
- Has resistance to vibration.

No.	Part Name	Material	Finish/Colour
①	Shelf Support	Stainless Steel (SUS304)	Mirror
②	Cover	Elastomer (TPE)	White, Brown

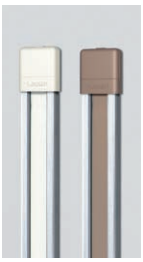
Item Code	Item Name	Colour	Load Capacity/4 pcs		Weight	Box	Carton
120-017-696	SPW-20-WT	White	785 N	80 kgf	4.5 g	200 pcs	2000 pcs
120-017-695	SPW-20-BR	Brown	785 N	80 kgf	4.5 g	200 pcs	2000 pcs

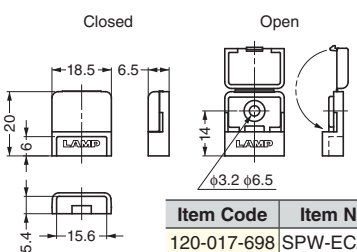
END CAP

SPW-EC20



■Installation





■Features

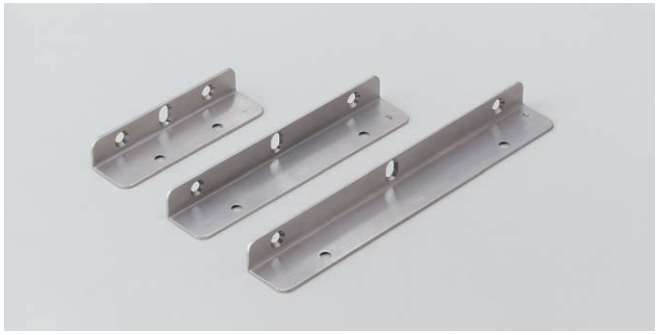
For SPW-1820 (above), SP, SPS (P.166), SM (P.169), SPH (P.170) shelf standards.

Item Code	Item Name	Material	Colour	Weight	Box	Carton
120-017-698	SPW-EC20-WT	Polypropylene (PP)	White	2 g	400 pcs	4000 pcs
120-017-697	SPW-EC20-BR	Polypropylene (PP)	Brown	2 g	400 pcs	4000 pcs

ANGLE BRACKET

TEST METHOD 9 | STAINLESS 304 STEEL | STAINLESS

SSA



■Features

An oval hole at the middle allows to adjust the position vertically in 2 mm.

■Remarks

Please install to sideboard.

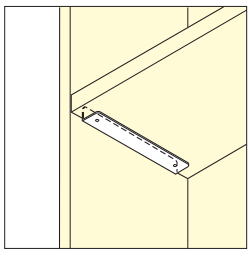
■Parts Included

- Countersunk head tapping screw 3.5×16 (SUS)
- Countersunk head tapping screw 3.5×12 (SUS)

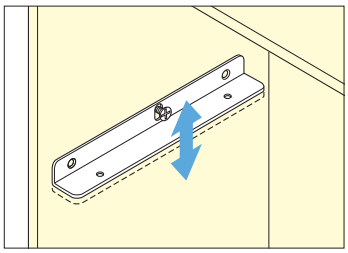
■Sold Separately

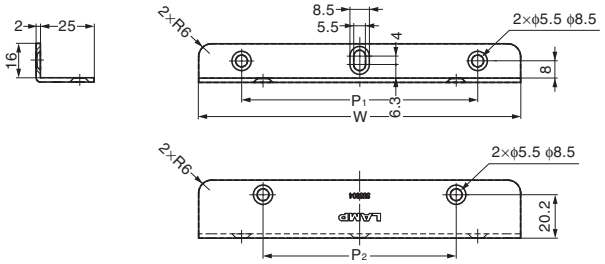
Screw for plaster board 3.5×40 (SUS)

■Installation



■Adjustable in a Vertical Direction





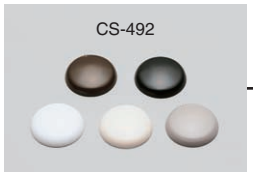
■Screw for Plaster Board (Sold Separately)

Item Code	Item Name	Screw	Material	Qty
120-027-279	SSA-SBS35-40	Countersunk Head Tapping Screw 3.5×40	Stainless Steel	3 pcs

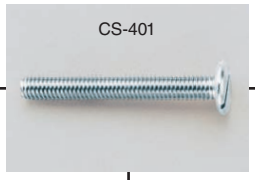
Item Code	Item Name	Material	Finish	W	P_1	P_2	Load Capacity		Weight	Box	Carton
120-027-253	SSA-100H	Stainless Steel (SUS304)	Satin	100	60	40	1470 N/pair	150 kgf/pair	65 g	30 pcs	240 pcs
120-027-254	SSA-150H	Stainless Steel (SUS304)	Satin	150	110	90	1470 N/pair	150 kgf/pair	97 g	20 pcs	160 pcs
120-027-255	SSA-200H	Stainless Steel (SUS304)	Satin	200	160	130	1470 N/pair	150 kgf/pair	130 g	15 pcs	120 pcs

CONNECTOR SYSTEM (P.181, 189)

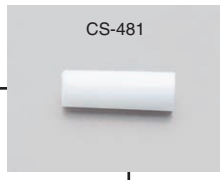
CS-492

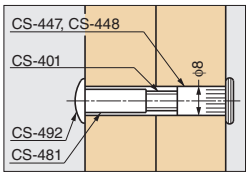


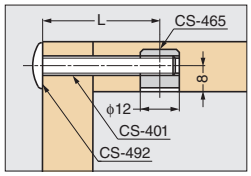
CS-401



CS-481







Example

CS-465



L	Bolt Length
16	※20
22	26
29	※33
36	40
43	※47
50	54
57	※61
61	※65

※Made to order.

CS-447-1



Door Thickness	Bolt Length
18～28	※20
24～34	26
31～41	※33
38～48	40
45～55	※47
52～62	54
59～69	※61
63～73	※65

※Made to order.

CS-447-2



Door Thickness	Bolt Length
25～28	※20
31～34	26
38～41	※33
45～48	40
52～55	※47
59～62	54
66～69	※61
70～73	※65

※Made to order.

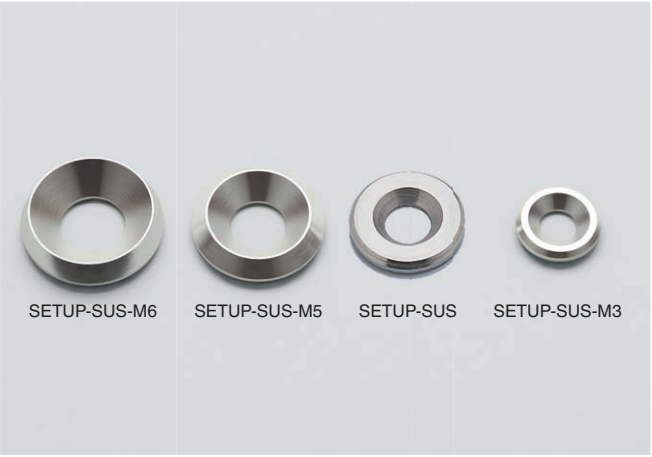
CS-448



Door Thickness	Bolt Length
26～28	※20
32～34	26
39～41	※33
46～48	40
53～55	※47
60～62	54
67～69	※61
71～73	※65

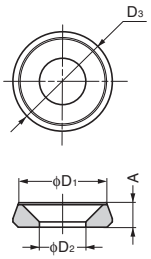
※Made to order.

STAINLESS STEEL COUNTERSUNK WASHER — SETUP

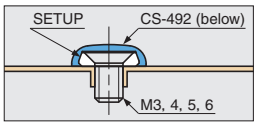


Features

- For surface mount of M3, M4, M5, M6 countersunk head screw.
- CS-492 cap sold separately.



Installation



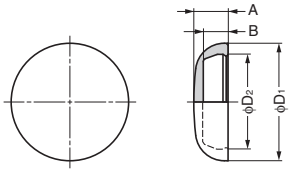
Item Code	Item Name	Material	Finish	A	D_1	D_2	D_3	Weight	Box
120-028-701	SETUP-SUS-M3	Stainless Steel (SUS303)	Plain	1.9	6.5	4	9	0.60 g	1000 pcs
120-040-504	SETUP-SUS	Stainless Steel (SUS303)	Plain	1.9	8	5	13	1.50 g	1000 pcs
120-028-702	SETUP-SUS-M5	Stainless Steel (SUS303)	Plain	3	10.6	6	14	2.02 g	500 pcs
120-028-703	SETUP-SUS-M6	Stainless Steel (SUS303)	Plain	3.7	12.8	7	15	2.66 g	500 pcs

CAP FOR SETUP — CS-492



Features

Conceals screw head when used with countersunk washer (above).

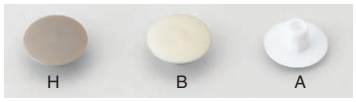


Item Code	Item Name	Material	Colour	A	B	D_1	D_2	Weight	Box	Carton
120-028-704	CS492-M3-IV	Polyethylene (PE)	Ivory	3.1	2.1	12.5	9	0.16 g	2000 pcs	20000 pcs
120-028-705	CS492-M3-WT	Polyethylene (PE)	White	3.1	2.1	12.5	9	0.16 g	2000 pcs	20000 pcs
120-028-706	CS492-M3-LGR	Polyethylene (PE)	Light Grey	3.1	2.1	12.5	9	0.16 g	2000 pcs	20000 pcs
120-028-707	CS492-M3-DGR	Polyethylene (PE)	Dark Grey	3.1	2.1	12.5	9	0.16 g	2000 pcs	20000 pcs
120-041-032	CS-492I	Polyethylene (PE)	Ivory	3.7	2.4	16.5	12.4	0.23 g	2000 pcs	20000 pcs
120-041-033	CS-492W	Polyethylene (PE)	White	3.7	2.4	16.5	12.4	0.23 g	2000 pcs	20000 pcs
120-028-924	CS-492-LGR	Polyethylene (PE)	Light Grey	3.7	2.4	16.5	12.4	0.23 g	2000 pcs	20000 pcs
120-028-925	CS-492-DGR	Polyethylene (PE)	Dark Grey	3.7	2.4	16.5	12.4	0.23 g	2000 pcs	20000 pcs
120-028-708	CS492-M5-IV	Polyethylene (PE)	Ivory	4.4	3.2	17.5	14	0.35 g	1000 pcs	10000 pcs
120-028-709	CS492-M5-WT	Polyethylene (PE)	White	4.4	3.2	17.5	14	0.35 g	1000 pcs	10000 pcs
120-028-710	CS492-M5-LGR	Polyethylene (PE)	Light Grey	4.4	3.2	17.5	14	0.35 g	1000 pcs	10000 pcs
120-028-711	CS492-M5-DGR	Polyethylene (PE)	Dark Grey	4.4	3.2	17.5	14	0.35 g	1000 pcs	10000 pcs
120-028-712	CS492-M6-IV	Polyethylene (PE)	Ivory	5.4	3.9	18.5	15	0.47 g	1000 pcs	10000 pcs
120-028-713	CS492-M6-WT	Polyethylene (PE)	White	5.4	3.9	18.5	15	0.47 g	1000 pcs	10000 pcs
120-028-714	CS492-M6-LGR	Polyethylene (PE)	Light Grey	5.4	3.9	18.5	15	0.47 g	1000 pcs	10000 pcs
120-028-715	CS492-M6-DGR	Polyethylene (PE)	Dark Grey	5.4	3.9	18.5	15	0.47 g	1000 pcs	10000 pcs

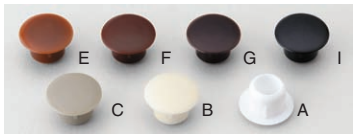
MULTI-PURPOSE CAP

KD-771, KD-772, KD-773W

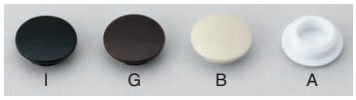
■**KD-771-6** (Installation hole：φ5)



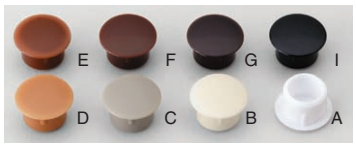
■**KD-771-65** (Installation hole：φ8)



■**KD-772-3** (Installation hole：φ10)



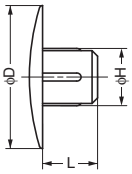
■**KD-772-65** (Installation hole：φ10)



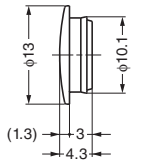
■**KD-773W** (Installation hole：φ8.6)



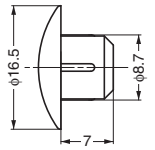
Model 1
KD-771-6
KD-771-65
KD-772-65



Model 2
KD-772-3



Model 3
KD-773W



Item Code	Item Name	Model	Type	Material	Colour	H	D	L	Weight	Box	Carton
120-041-050	KD-771-6W	1	A	Polypropylene (PP)	White	5.2	13	5	0.13 g	2500 pcs	25000 pcs
120-041-054	KD-771-6I	1	B	Polypropylene (PP)	Ivory	5.2	13	5	0.13 g	2500 pcs	25000 pcs
120-049-037	KD-771-6SGR	1	H	Polypropylene (PP)	Grey	5.2	13	5	0.13 g	2500 pcs	25000 pcs

Item Code	Item Name	Model	Type	Material	Colour	H	D	L	Weight	Box	Carton
120-041-060	KD-771-65W	1	A	Polypropylene (PP)	White	8.1	12	6.5	0.19 g	2000 pcs	20000 pcs
120-041-065	KD-771-65I	1	B	Polypropylene (PP)	Ivory	8.1	12	6.5	0.19 g	2000 pcs	20000 pcs
120-041-066	KD-771-65GR	1	C	Polypropylene (PP)	Grey	8.1	12	6.5	0.19 g	2000 pcs	20000 pcs
120-041-063	KD-771-65RBR	1	E	Polypropylene (PP)	Camel	8.1	12	6.5	0.19 g	2000 pcs	20000 pcs
120-041-062	KD-771-65DBR	1	F	Polypropylene (PP)	Dark Brown	8.1	12	6.5	0.19 g	2000 pcs	20000 pcs
120-041-061	KD-771-65BR	1	G	Polypropylene (PP)	Brown	8.1	12	6.5	0.19 g	2000 pcs	20000 pcs
120-041-064	KD-771-65B	1	I	Polypropylene (PP)	Black	8.1	12	6.5	0.19 g	2000 pcs	20000 pcs

Item Code	Item Name	Model	Type	Material	Colour	Weight	Box	Carton
120-041-080	KD-772-3W	2	A	Polypropylene (PP)	White	0.22 g	2000 pcs	20000 pcs
120-041-083	KD-772-3I	2	B	Polypropylene (PP)	Ivory	0.22 g	2000 pcs	20000 pcs
120-041-081	KD-772-3BR	2	G	Polypropylene (PP)	Brown	0.22 g	2000 pcs	20000 pcs
120-041-084	KD-772-3B	2	I	Polypropylene (PP)	Black	0.22 g	2000 pcs	20000 pcs

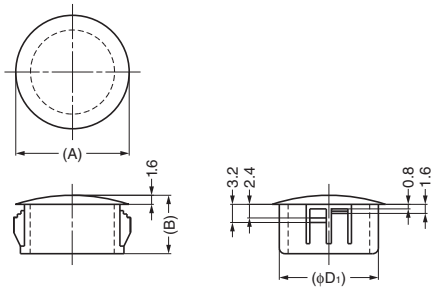
Item Code	Item Name	Model	Type	Material	Colour	H	D	L	Weight	Box	Carton
120-041-070	KD-772-65W	1	A	Polypropylene (PP)	White	10.3	13	7	0.29 g	1500 pcs	15000 pcs
120-041-075	KD-772-65I	1	B	Polypropylene (PP)	Ivory	10.3	13	7	0.29 g	1500 pcs	15000 pcs
120-049-216	KD-772-65GR	1	C	Polypropylene (PP)	Grey	10.3	13	7	0.29 g	1500 pcs	15000 pcs
120-049-257	KD-772-65MN	1	D	Polypropylene (PP)	Maple	10.3	13	7	0.29 g	1500 pcs	15000 pcs
120-041-073	KD-772-65RBR	1	E	Polypropylene (PP)	Camel	10.3	13	7	0.29 g	1500 pcs	15000 pcs
120-041-072	KD-772-65DBR	1	F	Polypropylene (PP)	Dark Brown	10.3	13	7	0.29 g	1500 pcs	15000 pcs
120-041-071	KD-772-65BR	1	G	Polypropylene (PP)	Brown	10.3	13	7	0.29 g	1500 pcs	15000 pcs
120-041-074	KD-772-65B	1	I	Polypropylene (PP)	Black	10.3	13	7	0.29 g	1500 pcs	15000 pcs

Item Code	Item Name	Model	Type	Material	Weight	Colour	Box	Carton
120-041-003	KD-773W	3	A	Polyethylene (PE)	0.48 g	White	1000 pcs	10000 pcs

MULTI-PURPOSE CAP

KD

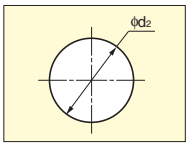




■**Features**

One-touch installation.

■**Cut Out Dimension**

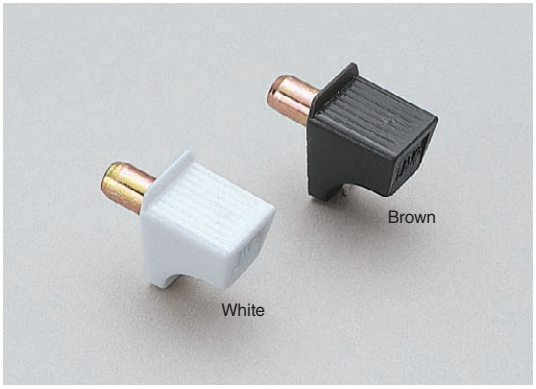


Item Code	Item Name	Material	Colour	A	B	D_1	d_2	Door Thickness	Weight	Carton
120-049-322	KD- 80- 64B	Polyamide (PA)	Black	8	8	6.1	6.4	1.6	0.17 g	100 pcs
120-049-323	KD- 95- 80B	Polyamide (PA)	Black	9.5	8	7.7	8	1.6	0.23 g	100 pcs
120-049-324	KD-120- 95B	Polyamide (PA)	Black	12	10.3	9.3	9.5	0.8～3.2	1.00 g	100 pcs
120-049-325	KD-135-110B	Polyamide (PA)	Black	13.5	10.3	10.9	11	0.8～3.2	0.47 g	100 pcs
120-049-326	KD-146-127B	Polyamide (PA)	Black	14.6	10.3	12.5	12.7	0.8～3.2	0.50 g	100 pcs
120-049-327	KD-167-143B	Polyamide (PA)	Black	16.7	10.3	14.1	14.3	0.8～3.2	0.76 g	100 pcs
120-049-328	KD-182-159B	Polyamide (PA)	Black	18.2	10.3	15.8	15.9	0.8～3.2	8.78 g	100 pcs
120-049-329	KD-200-175B	Polyamide (PA)	Black	20	10.3	17.3	17.5	0.8～3.2	1.10 g	100 pcs
120-049-330	KD-232-190B	Polyamide (PA)	Black	23.2	10.3	18.9	19	0.8～3.2	1.00 g	100 pcs
120-049-331	KD-226-206B	Polyamide (PA)	Black	22.6	10.3	20.4	20.6	0.8～3.2	1.50 g	100 pcs
120-049-332	KD-258-222B	Polyamide (PA)	Black	25.8	11.5	22	22.2	0.8～3.2	2.00 g	100 pcs
120-049-333	KD-305-255B	Polyamide (PA)	Black	30.5	11.5	25.3	25.5	0.8～3.2	2.45 g	100 pcs
120-049-334	KD-310-280B	Polyamide (PA)	Black	31	11.5	27.6	28	0.8～3.2	2.47 g	100 pcs
120-049-335	KD-333-301B	Polyamide (PA)	Black	33.3	11.5	30	30.1	0.8～3.2	2.70 g	100 pcs
120-049-336	KD-349-320B	Polyamide (PA)	Black	34.9	11.5	31.8	32	0.8～3.2	3.40 g	100 pcs
120-049-337	KD-380-350B	Polyamide (PA)	Black	38	11.5	34.9	35	0.8～3.2	3.70 g	100 pcs
120-049-338	KD-427-380B	Polyamide (PA)	Black	42.7	11.5	37.9	38	0.8～3.2	5.00 g	100 pcs
120-049-339	KD-484-450B	Polyamide (PA)	Black	48.4	11.5	44.6	45	0.8～3.2	6.00 g	100 pcs
120-499-340	KD-550-510B	Polyamide (PA)	Black	55	11.5	50.6	51	0.8～3.2	7.00 g	100 pcs

DOWEL

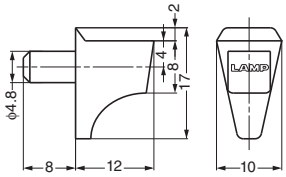
TEST METHOD 9

SS-323



■Recommended Mounting Hole

ϕ5

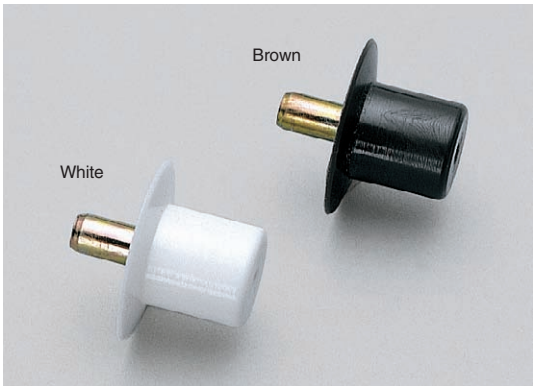


Item Code	Item Name	Material	Colour	Load Capacity		Weight	Box	Carton
120-041-326	SS-323W	Polyamide (PA) (w/ Steel Shaft)	White	392 N/4 pcs	40 kgf/4 pcs	3.4 g	500 pcs	5000 pcs
120-041-327	SS-323BR	Polyamide (PA) (w/ Steel Shaft)	Brown	392 N/4 pcs	40 kgf/4 pcs	3.4 g	500 pcs	5000 pcs

DOWEL

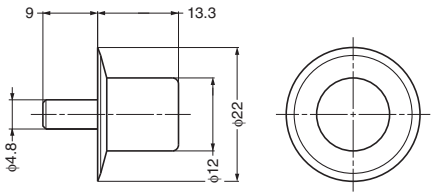
TEST METHOD 9

SS-324



■Recommended Mounting Hole

ϕ5



Item Code	Item Name	Colour	Material	Load Capacity		Weight	Box	Carton
120-041-360	SS-324W	White	Polyamide (PA) (w/ Steel Shaft)	294 N/4 pcs	30 kgf/4 pcs	4 g	300 pcs	3000 pcs
120-041-361	SS-324BR	Brown	Polyamide (PA) (w/ Steel Shaft)	294 N/4 pcs	30 kgf/4 pcs	4 g	300 pcs	3000 pcs

DOWEL

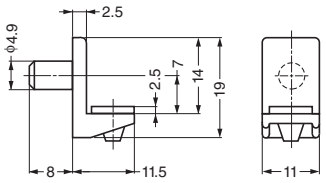
TEST METHOD 9

SS-307



■Recommended Mounting Hole

ϕ5



Item Code	Item Name	Material	Colour	Load Capacity		Weight	Box	Carton
120-041-320	SS-307W	Polyamide (PA) (w/o Rubber)	White	98 N/4 pcs	10 kgf/4 pcs	0.9 g	500 pcs	5000 pcs
120-041-321	SS-307BR	Polyamide (PA) (w/o Rubber)	Brown	98 N/4 pcs	10 kgf/4 pcs	0.9 g	500 pcs	5000 pcs
☆120-041-328	SS-307B	Polyamide (PA) (w/o Rubber)	Black	98 N/4 pcs	10 kgf/4 pcs	0.9 g	500 pcs	5000 pcs
120-041-329	SS-307WG	Polyamide (PA) (w/ Rubber)	White	98 N/4 pcs	10 kgf/4 pcs	0.9 g	500 pcs	5000 pcs
120-041-330	SS-307BRG	Polyamide (PA) (w/ Rubber)	Brown	98 N/4 pcs	10 kgf/4 pcs	0.9 g	500 pcs	5000 pcs
☆120-041-331	SS-307BG	Polyamide (PA) (w/ Rubber)	Black	98 N/4 pcs	10 kgf/4 pcs	0.9 g	500 pcs	5000 pcs

☆···The item will be discontinued after current stock is sold out.

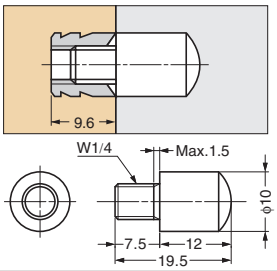
DOWEL

TEST METHOD 9

SS-318



■Installation



■Recommended Mounting Hole

ϕ10

Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box
120-041-334	SS-318M (Dowel)	Brass	Nickel	294 N/4 pcs	30 kgf/4 pcs	12 g	500 pcs
120-041-335	SS-318W (Catch)	Brass	Nickel	294 N/4 pcs	30 kgf/4 pcs	12 g	1000 pcs

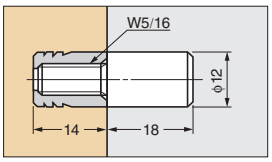
DOWEL

TEST METHOD 9

SS-322



■Installation



■Recommended Mounting Hole

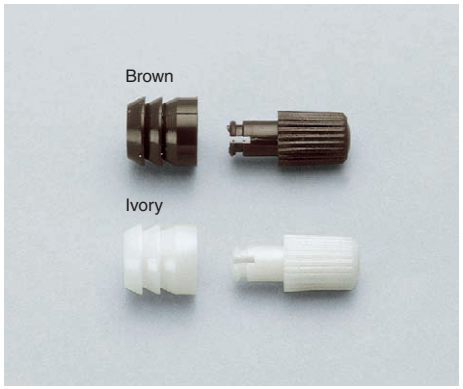
ϕ12

Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box	Carton
120-041-356	SS-322M (Dowel)	Brass	Nickel	441 N/4 pcs	45 kgf/4 pcs	28.3 g	200 pcs	800 pcs
120-041-357	SS-322W (Catch)	Brass	Nickel	441 N/4 pcs	45 kgf/4 pcs	28.3 g	500 pcs	2500 pcs

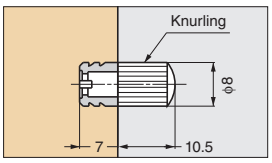
DOWEL

TEST METHOD 9

SS-320



■Installation



■Features

Detachable.

■Recommended Mounting Hole

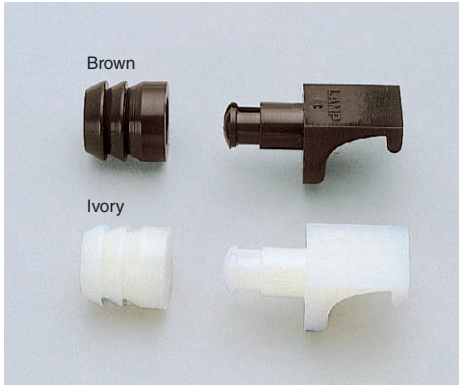
ϕ8

Item Code	Item Name	Material	Colour	Load Capacity		Weight	Box	Carton
120-041-345	SS-320IM (Dowel)	ABS	Ivory	98 N/4 pcs	10 kgf/4 pcs	0.6 g	1000 pcs	20000 pcs
120-041-347	SS-320IW (Catch)	ABS	Ivory	98 N/4 pcs	10 kgf/4 pcs	0.2 g	2000 pcs	40000 pcs
120-041-344	SS-320BRM (Dowel)	ABS	Brown	98 N/4 pcs	10 kgf/4 pcs	0.6 g	1000 pcs	20000 pcs
120-041-346	SS-320BRW (Catch)	ABS	Brown	98 N/4 pcs	10 kgf/4 pcs	0.2 g	2000 pcs	40000 pcs

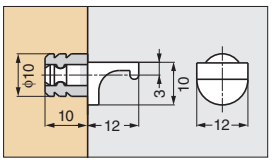
DOWEL

TEST METHOD 9

SS-321



■Installation



■Features

Detachable.

■Recommended Mounting Hole

ϕ10

Item Code	Item Name	Material	Colour	Load Capacity		Weight	Box	Carton
120-041-351	SS-321IM (Dowel)	ABS	Ivory	196 N/4 pcs	20 kgf/4 pcs	1.0 g	500 pcs	10000 pcs
120-041-353	SS-321IW (Catch)	ABS	Ivory	196 N/4 pcs	20 kgf/4 pcs	0.4 g	1000 pcs	20000 pcs
120-041-350	SS-321BRM (Dowel)	ABS	Brown	196 N/4 pcs	20 kgf/4 pcs	1.0 g	500 pcs	10000 pcs
120-041-352	SS-321BRW (Catch)	ABS	Brown	196 N/4 pcs	20 kgf/4 pcs	0.4 g	1000 pcs	20000 pcs

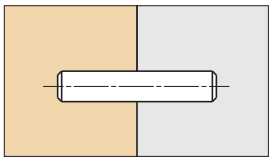
DOWEL

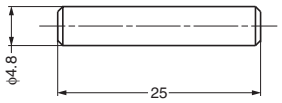
TEST METHOD 9

SS-313



■Installation





■Remarks

The value of load capacity is based on 12.5 mm depth mounting hole.

■Recommended Mounting Hole

ϕ5

Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box	Carton
120-041-324	SS-313	Steel	Nickel	196 N/4 pcs	20 kgf/4 pcs	3.5 g	800 pcs	4000 pcs

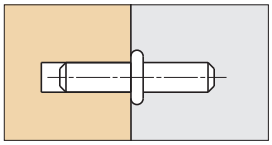
DOWEL

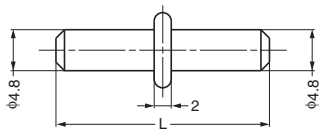
TEST METHOD 9

SS-312



■Installation





■Recommended Mounting Hole

ϕ5

Item Code	Item Name	Material	Finish	L	Load Capacity		Weight	Box	Carton
120-913-734	SS-312-18	Steel	Nickel	18	196 N/4 pcs	20 kgf/4 pcs	3 g	500 pcs	5000 pcs
120-041-333	SS-312-25	Steel	Nickel	25	245 N/4 pcs	25 kgf/4 pcs	4 g	500 pcs	5000 pcs

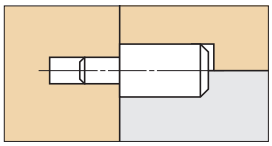
DOWEL

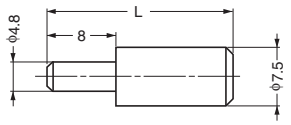
TEST METHOD 9

SS-310



■Installation





■Recommended Mounting Hole

ϕ5

Item Code	Item Name	Material	Finish	L	Load Capacity		Weight	Box	Carton
120-041-401	SS-310-18	Steel	Nickel	18	147 N/4 pcs	15 kgf/4 pcs	5 g	500 pcs	5000 pcs
120-041-336	SS-310-23	Steel	Nickel	23	147 N/4 pcs	15 kgf/4 pcs	6 g	500 pcs	5000 pcs

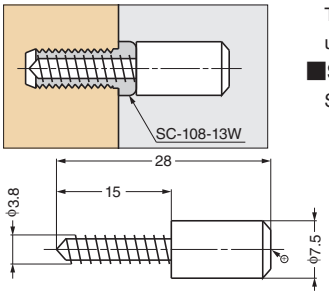
DOWEL

TEST METHOD 9

SS-311



■Installation



■Remarks

The description of load capacity is when used with SC-108-13W.

■Sold Separately

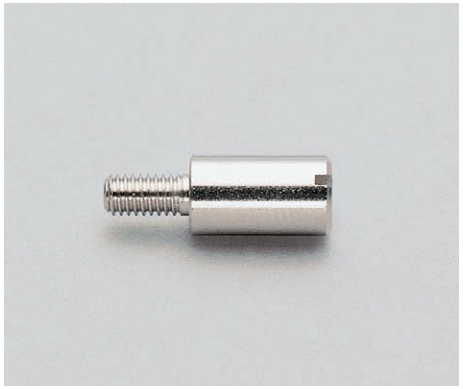
SC-108-13W (P.191)

Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box	Carton
120-041-400	SS-311	Steel	Nickel	196 N/4 pcs	20 kgf/4 pcs	5.1 g	500 pcs	2500 pcs

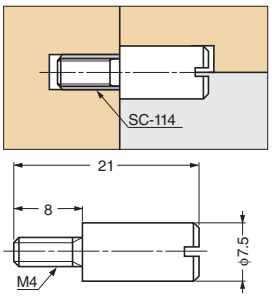
DOWEL

TEST METHOD 9

SS-309



■Installation



■Remarks

The description of load capacity is when used with SC-114.

■Sold Separately

SC-114 (P.191)

Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box	Carton
120-041-332	SS-309	Steel	Nickel	245 N/4 pcs	25 kgf/4 pcs	5 g	500 pcs	5000 pcs

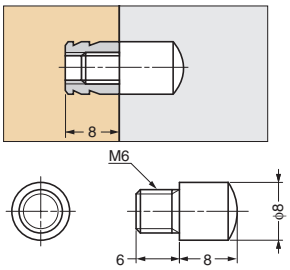
DOWEL

TEST METHOD 9

SS-319



■Installation



■Recommended Mounting Hole

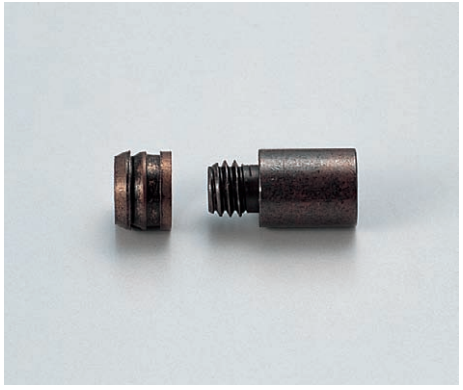
φ8

Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box
120-041-338	SS-319M (Dowel)	Brass	Nickel	196 N/4 pcs	20 kgf/4 pcs	5.6 g	500 pcs
120-041-339	SS-319W (Catch)	Brass	Nickel	196 N/4 pcs	20 kgf/4 pcs	5.6 g	1000 pcs

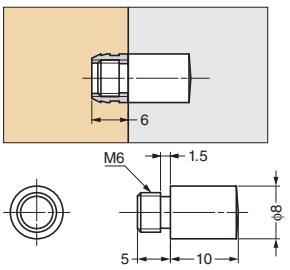
DOWEL

TEST METHOD 9

SS-108



■Installation



■Recommended Mounting Hole

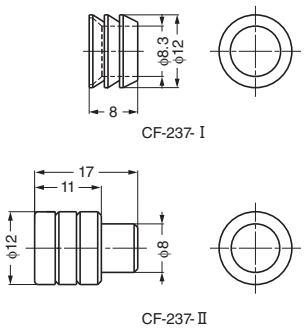
φ8

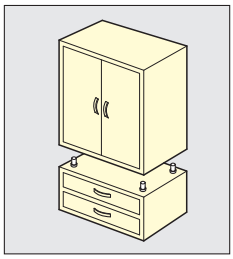
Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box
120-049-341	SS-108M (Dowel)	Brass	Bronze	196 N/4 pcs	20 kgf/4 pcs	5.5 g	500 pcs
120-049-342	SS-108W (Catch)	Brass	Bronze	196 N/4 pcs	20 kgf/4 pcs	5.5 g	1000 pcs

DOWEL

CF-237



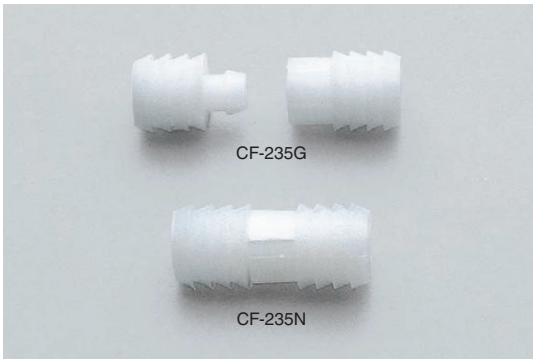


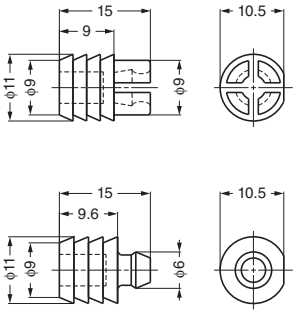


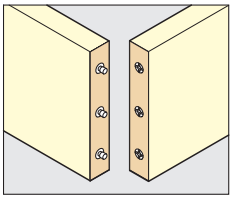
Item Code	Item Name	Part Name	Material	Finish	Weight	Box	Carton
120-041-118	CF-237	CF-237-Ⅰ, CF-237-Ⅱ	Brass	Plain	9 g	100 sets	1000 sets

CONNECTOR

CF-235





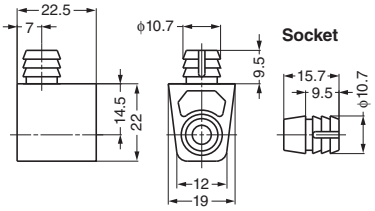


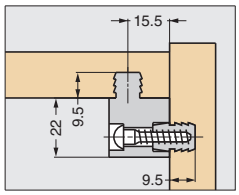
Item Code	Item Name	Material	Colour	Weight	Box	Carton
120-041-222	CF-235N	Polyamide (PA)	White	2 g	500 sets	5000 sets
120-041-223	CF-235G	Polyacetal (POM)	White	2 g	500 sets	5000 sets

CORNER FASTENERS

CF-215



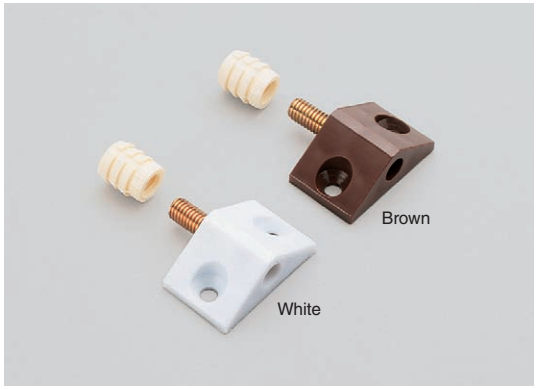


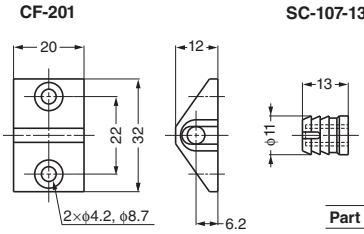


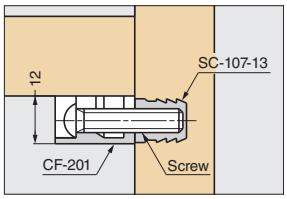
Part Name	Material	Finish/Colour	Size
Socket	Polyamide (PA)	White	5.6×15.7
Screw	Steel	Yellow Zinc Chromate	5.6×23

Item Code	Item Name	Material	Colour	Weight	Box	Carton
120-041-110	CF-215	Polyamide (PA)	White	12 g	100 sets	1000 sets

CORNER FASTENERS — CF-201



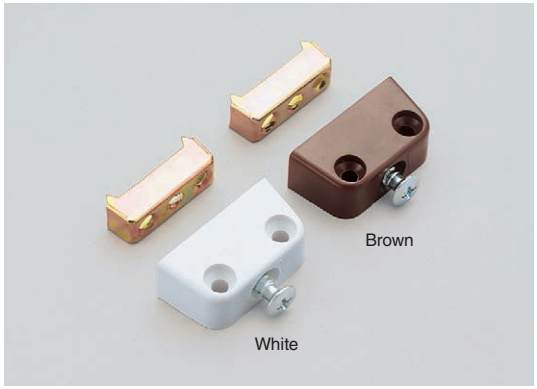


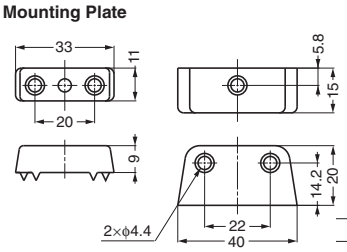


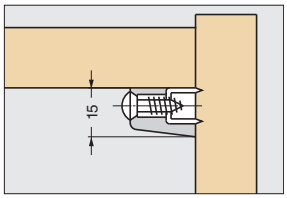
Part Name	Material	Finish/Colour	Size
SC-107-13	Polyamide (PA)	White	M6
Screw	Steel	Yellow Zinc Chromate	M6×25

Item Code	Item Name	Material	Colour	Weight	Box	Carton
120-041-130	CF-201W	Polyamide (PA)	White	10.5 g	100 sets	1000 sets
120-041-101	CF-201BR	Polyamide (PA)	Brown	10.5 g	100 sets	1000 sets

CORNER FASTENERS — CF-203



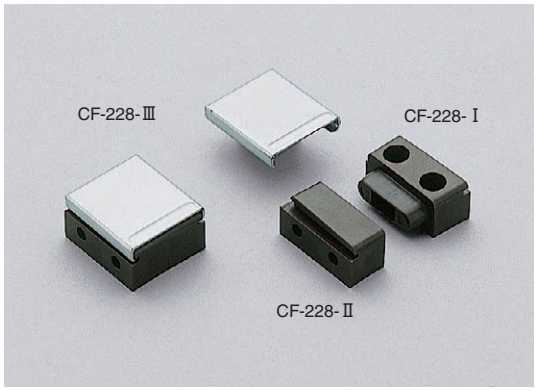


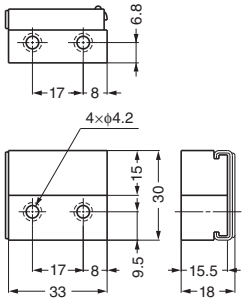


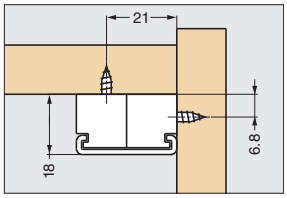
Part Name	Material	Finish	Size
Screw	Steel	Clear Zinc Chromate	5.5×19
Mounting Plate	Steel	Yellow Zinc Chromate	—

Item Code	Item Name	Material	Colour	Weight	Box	Carton
120-041-104	CF-203W	Polystyrene (PS)	White	14 g	80 sets	320 sets
120-041-105	CF-203BR	Polystyrene (PS)	Brown	14 g	80 sets	320 sets

CORNER FASTENERS — CF-228





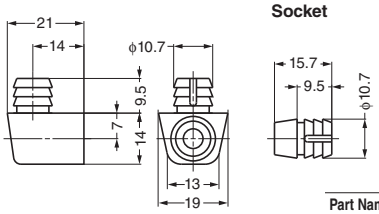


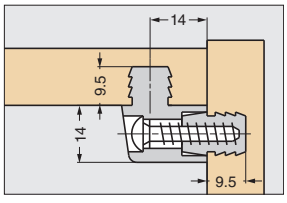
Part Name	Material	Finish/Colour
CF-228-Ⅰ	Polystyrene (PS)	Brown
CF-228-Ⅱ	Polystyrene (PS)	Brown
CF-228-Ⅲ	Steel	Nickel

Item Code	Item Name	Weight	Box	Carton
120-041-116	CF-228	24 g	50 sets	500 sets

CORNER FASTENERS — CF-213





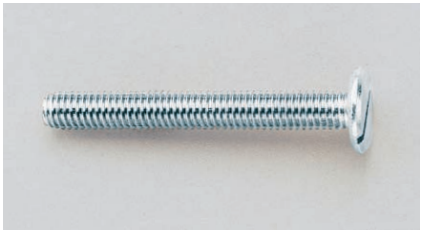


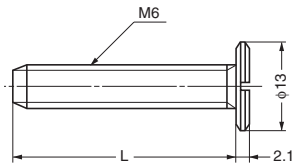
Part Name	Material	Finish/Colour		Size
Socket	Polyamide (PA)	White	Brown	5.6×15.7
Screw	Steel	Yellow Zinc Chromate	Bronze	5.6×23

Item Code	Item Name	Material	Colour	Weight	Box	Carton
120-041-108	CF-213W	Polyamide (PA)	White	10 g	100 sets	1000 sets
120-041-109	CF-213BR	Polyamide (PA)	Brown	10 g	100 sets	1000 sets

Please refer to P.180

CONNECTOR SYSTEM — CS-401



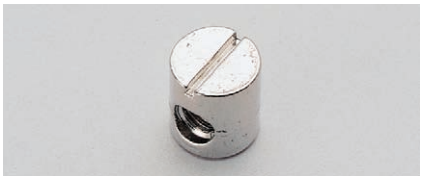


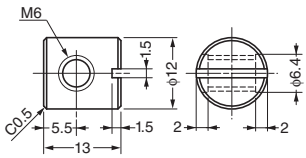
■Sold Separately

Cap CS-492 (P.181).

Item Code	Item Name	Material	Finish	L	Weight	Carton
120-040-537	CS-401-26	Steel	Yellow Zinc Chromate	26	6.2 g	3500 pcs
120-040-535	CS-401-40	Steel	Yellow Zinc Chromate	40	8.6 g	2500 pcs
120-040-539	CS-401-54	Steel	Yellow Zinc Chromate	54	11.0 g	1500 pcs

CONNECTOR SYSTEM — CS-465

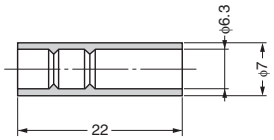




Item Code	Item Name	Material	Finish	Weight	Box	Carton
120-041-029	CS-465	Zinc Alloy (ZDC)	Nickel	6.9 g	250 pcs	2000 pcs

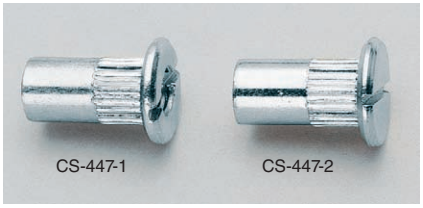
CONNECTOR SYSTEM — CS-481

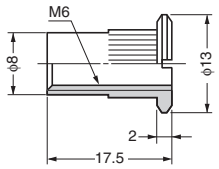




Item Code	Item Name	Material	Color	Weight	Box	Carton
120-041-031	CS-481	Polyethylene (PE)	White	0.28 g	1000 pcs	10000 pcs

CONNECTOR SYSTEM — CS-447





■Features

- CS-447-1 : Screw hole is pierced.
- CS-447-2 : Screw hole is not pierced.

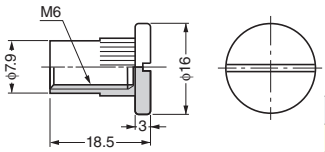
■Sold Separately

CS-492 (P.181)

Item Code	Item Name	Material	Finish	Weight	Box	Carton
120-040-530	CS-447-1	Steel	Yellow Zinc Chromate	4.3 g	400 pcs	4000 pcs
120-040-531	CS-447-2	Steel	Yellow Zinc Chromate	4.9 g	400 pcs	4000 pcs

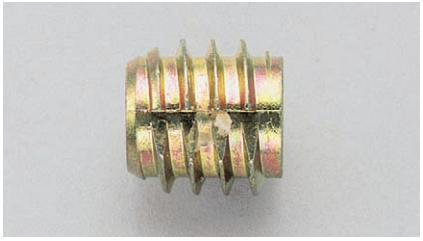
CONNECTOR SYSTEM — CS-448

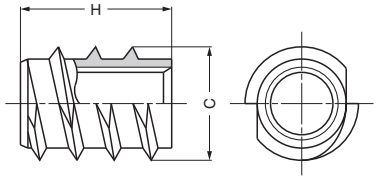




Item Code	Item Name	Material	Finish	Weight	Box	Carton
120-041-027	CS-448	Steel	Nickel	7.2 g	300 pcs	3000 pcs

ANCHOR — Made To Order — SC-127





■Remarks

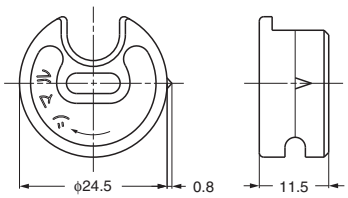
Made to order with a minimum order of 5 cartons.

Item Code	Item Name	Material	Finish	Screw	C	H	Weight	Carton
—	SC-127-8	Zinc Alloy (ZDC)	Yellow Zinc Chromate	M6	11	8	1.7 g	10000 pcs
—	SC-127-10B	Zinc Alloy (ZDC)	Yellow Zinc Chromate	M5	9	10	1.5 g	10000 pcs
—	●SC-127-10B6	Zinc Alloy (ZDC)	Yellow Zinc Chromate	M5	9.5	10	1.6 g	10000 pcs
—	SC-127-13C	Zinc Alloy (ZDC)	Yellow Zinc Chromate	M6	11	13	2.8 g	6000 pcs
—	●SC-127-13C6	Zinc Alloy (ZDC)	Yellow Zinc Chromate	M6	11	13	2.9 g	6000 pcs
—	SC-127-13E	Zinc Alloy (ZDC)	Yellow Zinc Chromate	M8	13	13	3.8 g	4000 pcs
—	●SC-127-13E6	Zinc Alloy (ZDC)	Yellow Zinc Chromate	M8	13.5	13	4.5 g	4000 pcs
—	SC-127-20E	Zinc Alloy (ZDC)	Yellow Zinc Chromate	M8	13	20	5.7 g	2500 pcs
—	◎SC-127-20G	Zinc Alloy (ZDC)	Yellow Zinc Chromate	M10	15	20	6.7 g	1800 pcs
—	SC-127-25	Zinc Alloy (ZDC)	Yellow Zinc Chromate	M8	14	25	3.9 g	1800 pcs

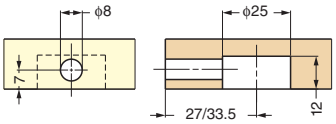
●For Hex nut ◎Flanged type.

SHELF CLAMP — KD-703



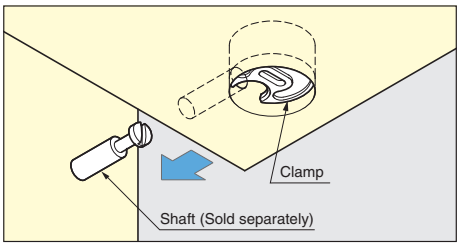


■Cut Out Dimensions



■Sold Separately
- Shafts (Below).
- Cover, KD-752 (Below).

■Installation Example

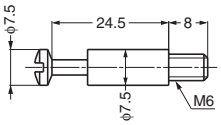


Item Code	Item Name	Material	Finish	Weight	Box	Carton
120-041-037	KD-703	Zinc Alloy (ZDC)	Plain	11.6 g	200 pcs	2000 pcs

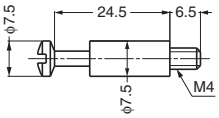
SHAFT FOR SHELF CLAMP — KD-601



KD-601-245C (M6)



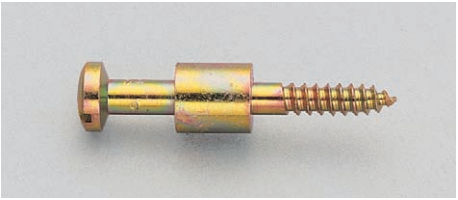
KD-601-245A (M4)

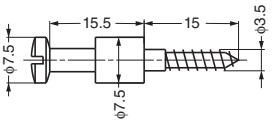


■Features
For KD-703.

Item Code	Item Name	Screw	Material	Finish	Weight	Box	Carton
120-041-048	KD-601-245C	M6	Steel	Yellow Zinc Chromate	8.5 g	300 pcs	3000 pcs
120-041-049	KD-601-245A	M4	Steel	Yellow Zinc Chromate	8.5 g	300 pcs	3000 pcs

SHAFT FOR SHELF CLAMP — KD-622-155





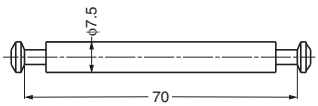
■Features
For KD-703.

■Sold Separately
Insert screw SC-108-W (P.191), SC-110-W (P.191).

Item Code	Item Name	Material	Finish	Weight	Box	Carton
120-041-091	KD-622-155	Steel	Yellow Zinc Chromate	5.1 g	400 pcs	2000 pcs

SHAFT FOR SHELF CLAMP — KD-681-70



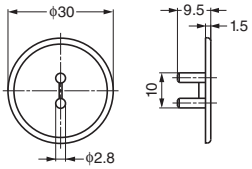


■Features
For KD-703.

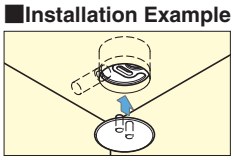
Item Code	Item Name	Material	Finish	Weight	Box	Carton
120-041-039	KD-681-70	Steel	Yellow Zinc Chromate	23.3 g	100 pcs	500 pcs

COVER FOR KD-703 — KD-752





■Installation Example

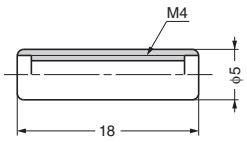


■Features
For KD-703.

Item Code	Item Name	Material	Colour	Weight	Box	Carton
120-041-040	KD-752W	Polypropylene (PP)	White	0.56 g	500 pcs	10000 pcs
120-041-056	KD-752C	Polypropylene (PP)	Cream	0.56 g	500 pcs	10000 pcs
120-041-041	KD-752BR	Polypropylene (PP)	Brown	0.56 g	500 pcs	10000 pcs
120-041-055	KD-752B	Polypropylene (PP)	Black	0.56 g	500 pcs	10000 pcs
120-041-036	KD-752I	Polypropylene (PP)	Ivory	0.56 g	500 pcs	10000 pcs

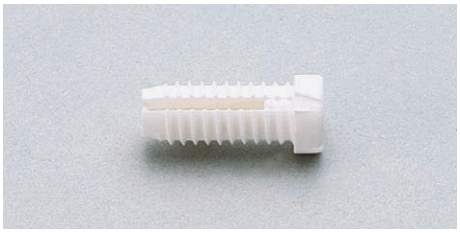
BUSHING — SC-121-18

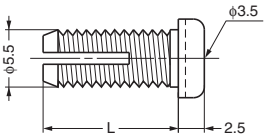




Item Code	Item Name	Material	Finish	Weight	Box	Carton
120-041-308	SC-121-18	Brass	Plain	1.3 g	2500 pcs	10000 pcs

BUSHING — SC-108-W

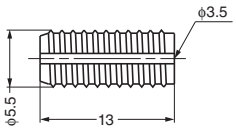




Item Code	Item Name	Material	Colour	L	Weight	Box	Carton
120-041-315	SC-108-95W	Polyamide (PA)	White	9.5	0.2 g	2000 pcs	20000 pcs
120-041-316	SC-108-13W	Polyamide (PA)	White	13	0.2 g	2000 pcs	20000 pcs

BUSHING — SC-110-W

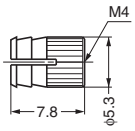




Item Code	Item Name	Material	Colour	Weight	Box	Carton
120-041-318	SC-110-W	Polyamide (PA)	White	0.2 g	2000 pcs	20000 pcs

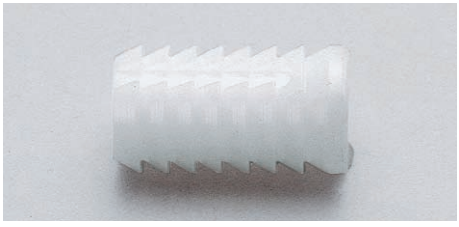
INSERT SCREW — SC-114

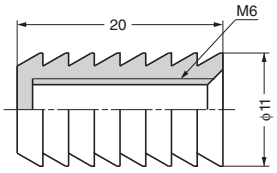




Item Code	Item Name	Material	Finish	Weight	Box	Carton
120-041-319	SC-114	Brass	Plain	0.6 g	5000 pcs	20000 pcs

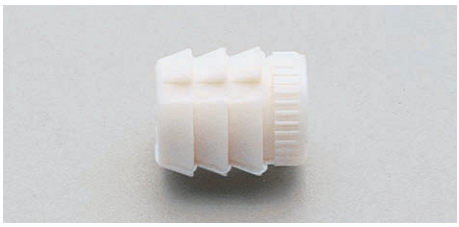
INSERT SCREW — SC-106

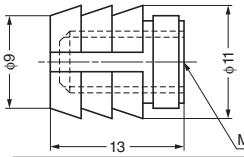




Item Code	Item Name	Material	Colour	Weight	Box	Carton
120-041-313	SC-106	Polyacetal (POM)	White	1.5 g	500 pcs	10000 pcs

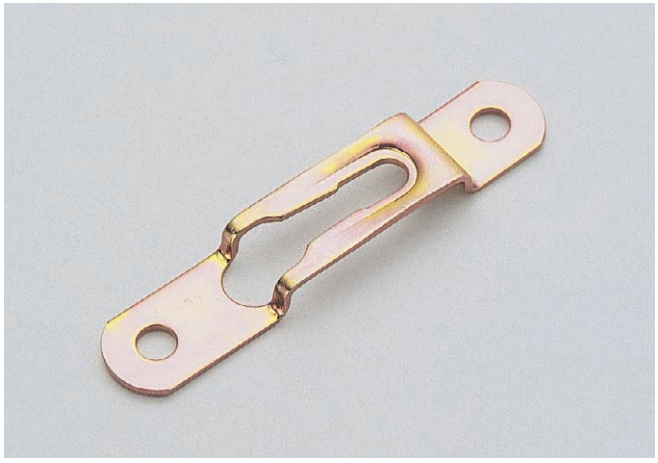
INSERT SCREW — SC-107-13





Item Code	Item Name	Material	Colour	Weight	Box	Carton
120-041-310	SC-107-13	Polyamide (PA)	White	0.8 g	1000 pcs	10000 pcs

CONNECTING PART 4063A

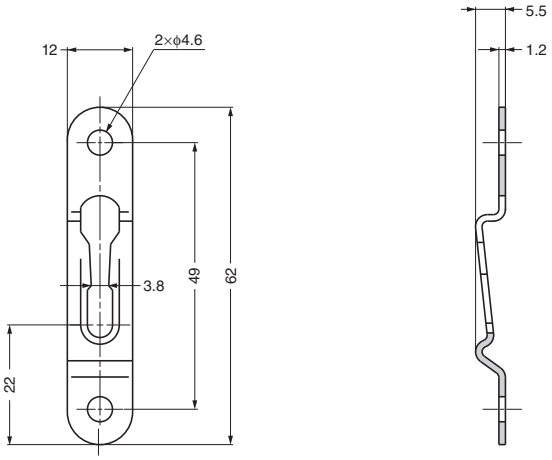


■Features

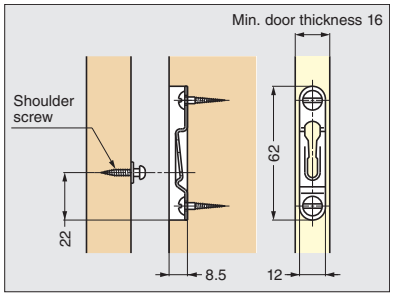
Holds shoulder screw firmly.

■Sold Separately

Shoulder screw (P.193)



■Installation



Item Code	Item Name	Material	Finish	Weight	Box	Carton
120-041-290	4063A	Steel	Yellow Zinc Chromate	5.2 g	350 pcs	3500 pcs

CONNECTING PART 5063

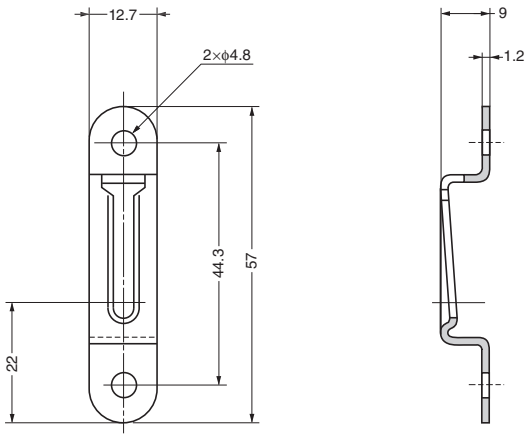


■Features

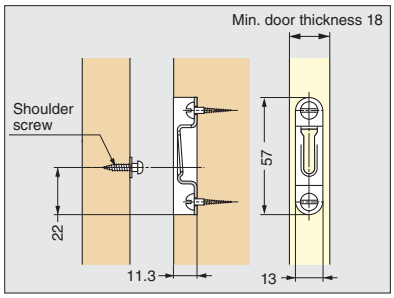
Holds shoulder screw firmly.

■Sold Separately

Shoulder screw (P.193)

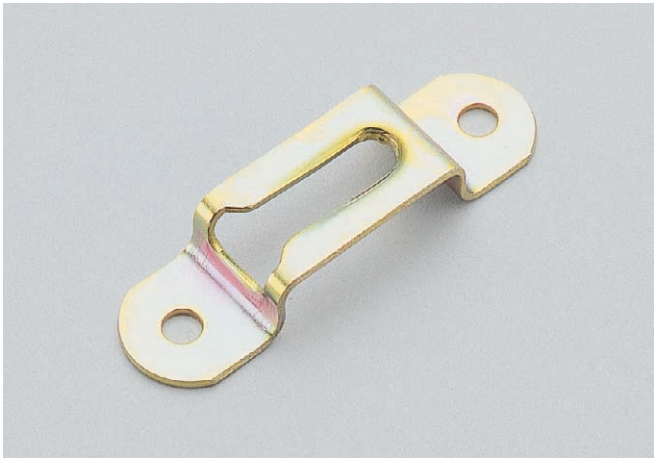


■Installation



Item Code	Item Name	Material	Finish	Weight	Box	Carton
120-041-291	5063	Steel	Black	5.9 g	300 pcs	1800 pcs

CONNECTING PART 6063

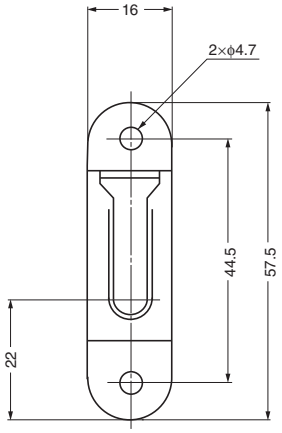


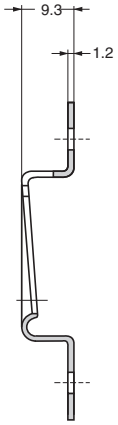
■Features

Holds shoulder screw firmly.

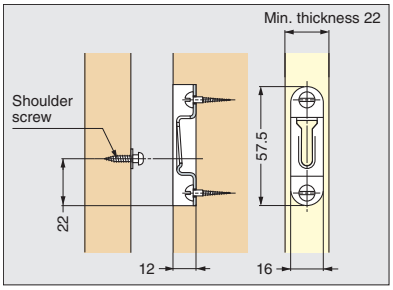
■Sold Separately

Shoulder screw (below)



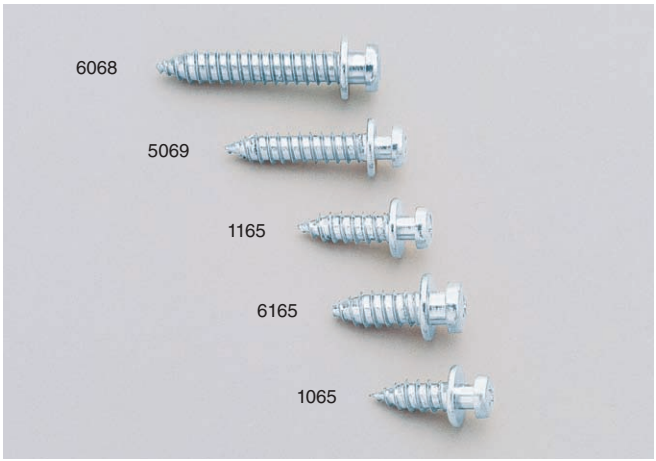


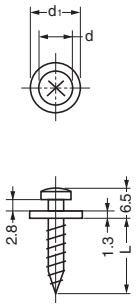
■Installation



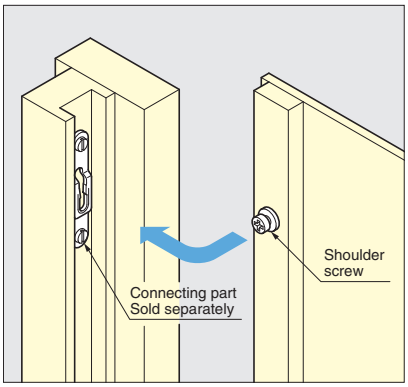
Item Code	Item Name	Material	Finish	Weight	Box	Carton
120-041-292	6063	Steel	Yellow Zinc Chromate	7.7 g	250 pcs	2500 pcs

SHOULDER SCREW 10, 11, 50, 60, 61





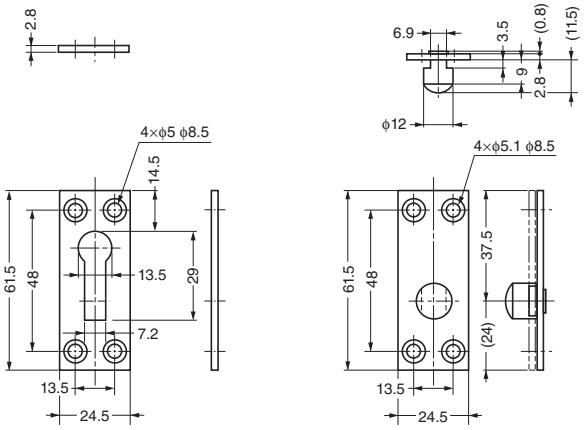
■Application Example

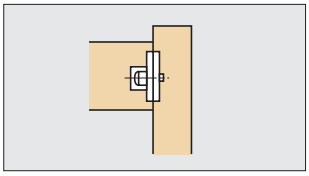


Item Code	Item Name	Suitable Connecting Part	Material	Finish	L	d	d_1	Nominal Size	Weight	Box	Carton
120-041-293	1065	4063A/5063	Steel	Yellow Zinc Chromate	13	7	10	5.5	2.8 g	800 pcs	8000 pcs
120-040-536	1165	4063A/5063	Steel	Yellow Zinc Chromate	16	7	10	5.5	3.2 g	600 pcs	6000 pcs
120-040-533	5069	4063A/5063	Steel	Yellow Zinc Chromate	25.5	7	10	5.5	4 g	500 pcs	5000 pcs
120-040-538	6165	6063	Steel	Yellow Zinc Chromate	16	8.3	11	6.3	4.4 g	500 pcs	5000 pcs
120-041-297	6068	6063	Steel	Yellow Zinc Chromate	32	8.3	11	6.3	7 g	250 pcs	2500 pcs

CONNECTING PART — BF-842S



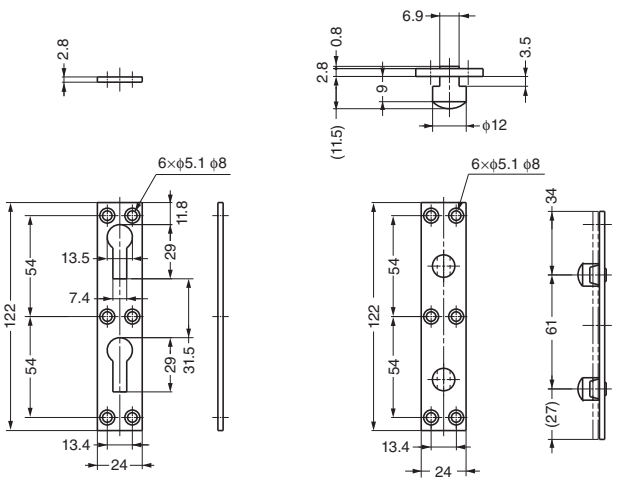


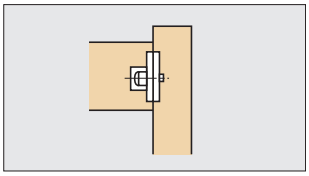


Item Code	Item Name	Material	Finish	Weight	Box	Carton
120-040-741	BF-842S	Steel	Clear Zinc Chromate	61.4 g	20 sets	400 sets

CONNECTING PART — BF-842W





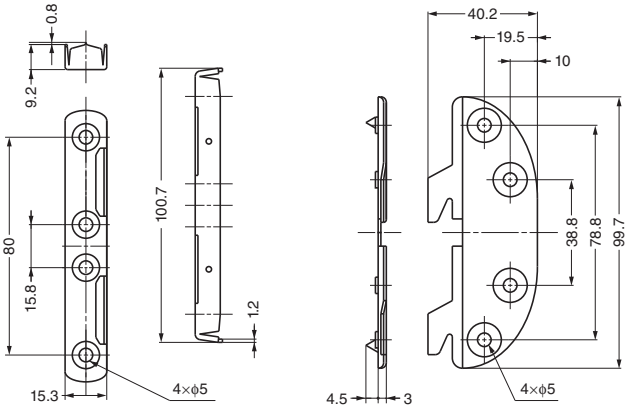


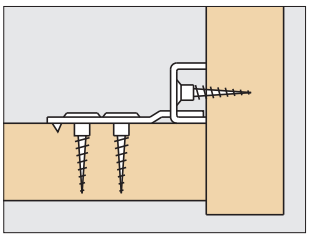
Item Code	Item Name	Material	Finish	Weight	Box	Carton
120-041-259	BF-842W	Steel	Clear Zinc Chromate	126 g	20 sets	200 sets

CONNECTING PART — BF-803



BF-8031



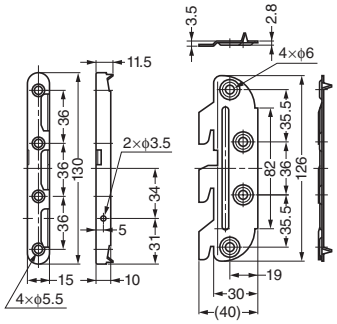


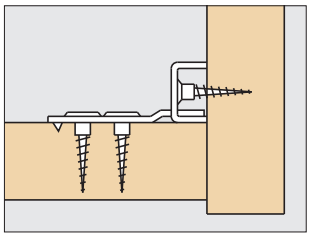
The drawing shows BF-8031: a mirror-image of BF-8032.

Item Code	Item Name	Material	Finish	Weight	Box	Carton
120-041-260	BF-8031	Steel	Yellow Zinc Chromate	52.4 g	50 sets	450 sets
120-041-261	BF-8032	Steel	Yellow Zinc Chromate	52.4 g	50 sets	450 sets

CONNECTING PART — BF-806



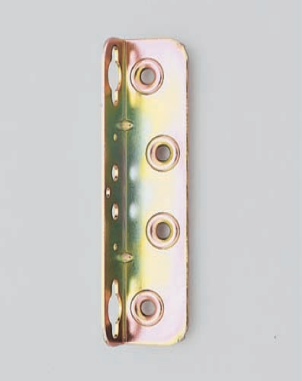


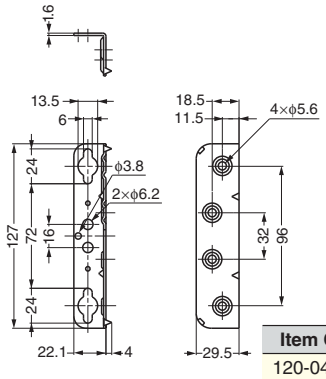


The drawing shows BF-8061: a mirror-image of BF-8062.

Item Code	Item Name	Material	Finish	Weight	Box	Carton
120-041-262	BF-8061	Steel	Yellow Zinc Chromate	72.5 g	30 sets	270 sets
120-041-263	BF-8062	Steel	Yellow Zinc Chromate	72.5 g	30 sets	270 sets

CONNECTING PART — BF-810



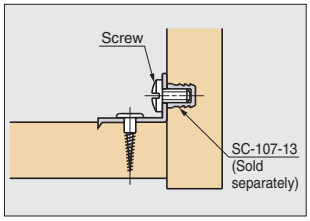


■Sold Separately

SC-107-13 (P.191)

■Recommended Screw

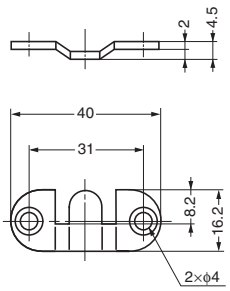
Tapping screw M6×10



Item Code	Item Name	Material	Finish	Weight	Box	Carton
120-041-264	BF-810	Steel	Yellow Zinc Chromate	69.3 g	50 pcs	500 pcs

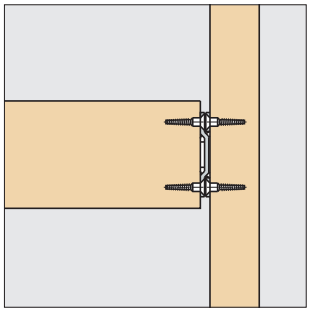
CONNECTING PART — BF-857





■Remarks

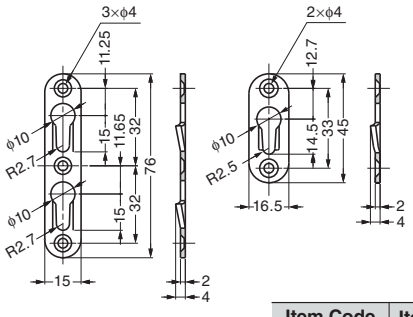
Please use 2 pcs as a set.

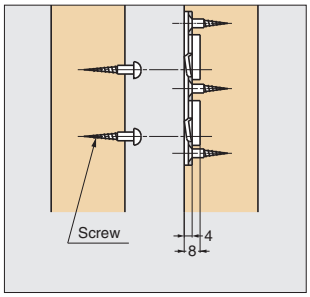


Item Code	Item Name	Material	Finish	Weight	Box	Carton
120-040-007	BF-857	Steel	Yellow Zinc Chromate	7.4 g	500 pcs	2000 pcs

CONNECTING PART — BF-K







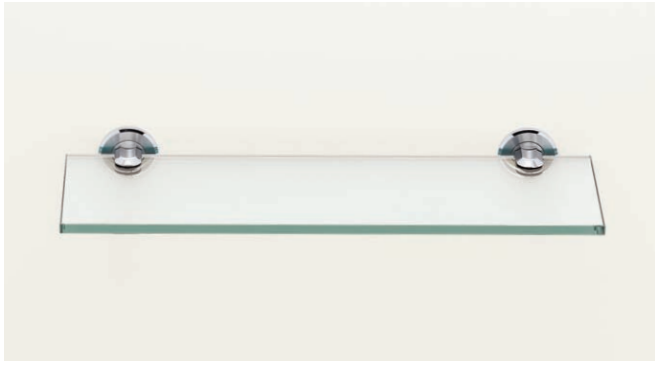
Item Code	Item Name	Material	Finish	Weight	Box	Carton
120-041-273	BF-KW	Steel	Clear Zinc Chromate	10.1 g	200 pcs	2000 pcs
120-041-274	BF-KS	Steel	Clear Zinc Chromate	6.8 g	200 pcs	4000 pcs

GLASS SHELF CLAMP

ZL-2202



■Installation Example



■Features

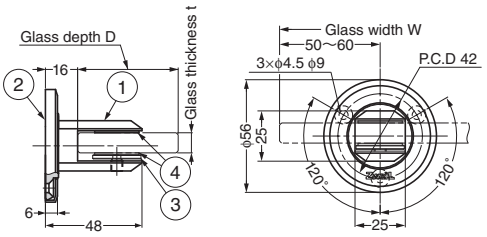
Superior finish of Mirror/Satin.

■Remarks

- Glass thickness : 8 mm or 10 mm.
- Sold by piece.

■Parts Included

- Allen key 2.5
- Countersunk head wood screw 4.1×32
- Plug



No.	Part Name	Material	Finish/Colour
①	Clamp	Stainless Steel (SUS316)	Zwei L Finish
②	Base Plate	Stainless Steel (SUS316)	Zwei L Finish
③	Bumper Plate	Stainless Steel (SUS316)	Zwei L Finish
④	Bumper	Rubber	Black

Item Code	Item Name	Glass Size / 2 pcs			Weight	Box
		t	D	W		
120-031-003	ZL-2202	8 or 10	Max. 160	Max. 480	480 g	2 pcs

GLASS SHELF CLAMP

ZL-2203



■Installation Example



■Features

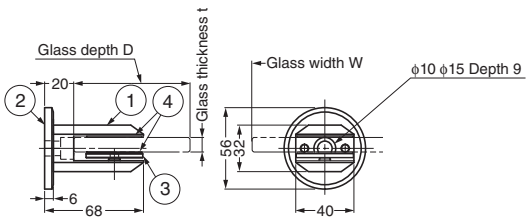
Superior finish of Mirror/Satin.

■Remarks

- Glass thickness : 8 mm or 10 mm.
- Sold by piece.

■Parts Included

- Allen key 6
- Countersunk head wood screw M8×60
- Plug



No.	Part Name	Material	Finish/Colour
①	Clamp	Stainless Steel (SUS316)	Zwei L Finish
②	Base Plate	Stainless Steel (SUS316)	Zwei L Finish
③	Bumper Plate	Stainless Steel (SUS316)	Zwei L Finish
④	Bumper	Rubber	Black

Item Code	Item Name	Glass Size / 2 pcs			Weight	Box
		t	D	W		
120-031-004	ZL-2203	8 or 10	Max. 240	Max. 640	495 g	1 pc

GLASS SHELF CLAMP

ZL-2201



■Features

Superior finish of Mirror/Satin.

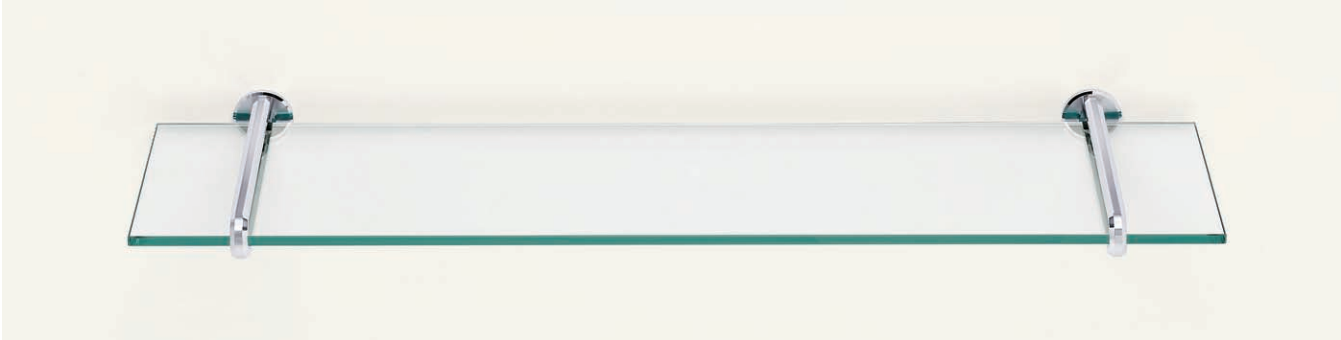
■Remarks

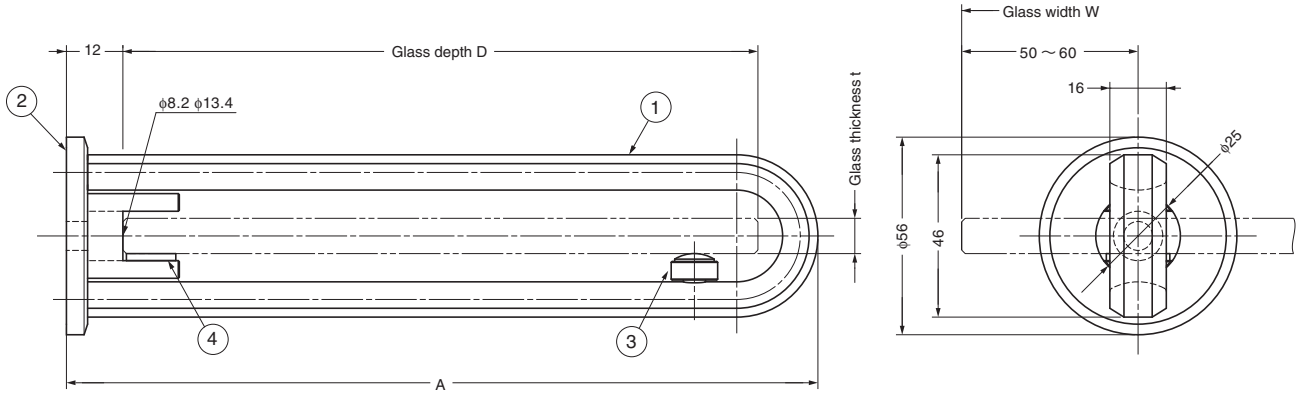
- Glass thickness : 8 mm or 10 mm.
- Pilot hole ϕ14
- Sold by piece.

■Parts Included

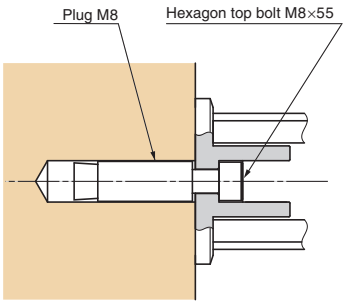
- Allen key 6
- Hexagon top bolt M8×55
- Plug M8

■Installation Example





■Installation

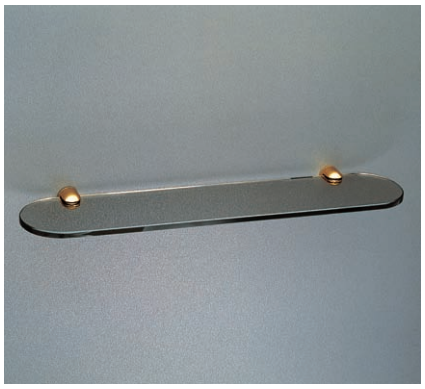


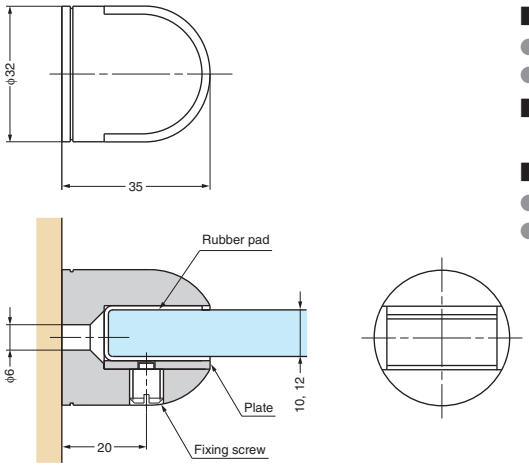
No.	Part Name	Material	Finish/Colour
①	Arm	Stainless Steel (SUS316)	Zwei L Finish
②	Mounting Plate	Stainless Steel (SUS316)	Zwei L Finish
③	Level Adjuster	Stainless Steel (SUS316) /Polyurethane (PUR)	Zwei L Finish/Clear
④	Bumper	Rubber	Black

Item Code	Item Name	A	Glass Size / 2 pcs			Weight	Box
			t	D	W		
120-031-000	ZL-2201-120	150	8 or 10	120	Max. 640	625 g	2 pcs
120-031-001	ZL-2201-180	210	8 or 10	180	Max. 800	625 g	2 pcs
120-031-002	ZL-2201-240	270	8 or 10	240	Max. 960	875 g	2 pcs

GLASS SHELF CLAMP

SPV-G01-GP





Features
- Pre-drilling on glass not required.
- Glass thickness : 10 mm or 12 mm.

Remarks
Sold in pairs.

Parts Included
- Countersunk head wood screw 5.1×32
- Allen key

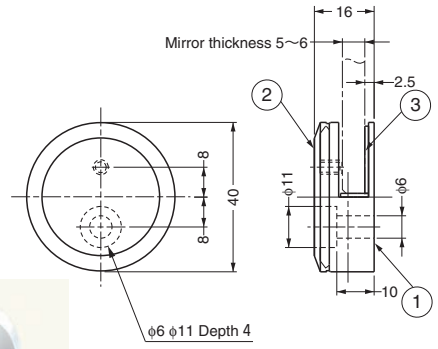
Item Code	Item Name	Glass Thickness	Material	Finish	Weight	Box	Carton
120-173-651	SPV-G01-GP	10 or 12	Brass	24K Gold	134 g	2 pcs	40 pcs

MIRROR SUPPORT

ZL-3102-40







Features
Superior finish of Mirror/Satin.

Remarks
- Mirror not included.
- Sold by piece.

Parts Included
- Round head wood screw 5.1×45 (SUS)
- Wall plug
- Hex key

No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS316)	Zwei L Finish
②	Cover	Stainless Steel (SUS316)	Zwei L Finish
③	Bumper	Rubber	Black

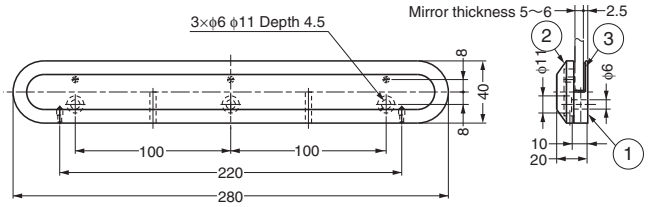
Item Code	Item Name	Mirror Thickness	Weight	Box
120-031-006	ZL-3102-40	5~6	148 g	4 pcs

MIRROR SUPPORT

ZL-3101-200







Features
Superior finish of Mirror/Satin.

Remarks
- Mirror not included.
- Sold by piece.

Parts Included
- Round head wood screw 5.1×45 (SUS)
- Wall plug
- Hex key

No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS316)	Zwei L Finish
②	Cover	Stainless Steel (SUS316)	Zwei L Finish
③	Bumper	Rubber	Black

Item Code	Item Name	Mirror Thickness	Weight	Box
120-031-005	ZL-3101-200	5~6	1192 g	1 pc

UNIT SHELF

Great variety of the optional parts for various spaces

- Simple design with aluminium alloy and glass.
- Great variety of fashionable and functional parts.
- Chamfered vertical frames and clamps in calm design.
- Vertical frame is made of light and strong aluminium alloy.
- Meets your requirements by combinating the optional parts.

UNIT SHELF TYPE "B" (Next Page) XLA-US02B

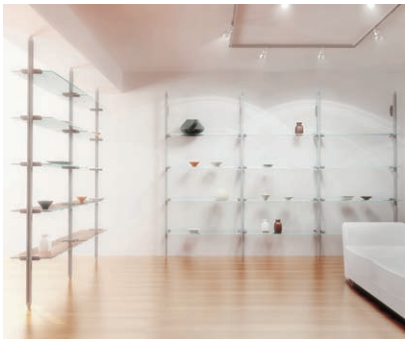


- The shelf is hanged as it is floating.
- The shelf is stable due to having it hold by the frame.
- The glass shelf is in front of the frame, making it look neat.

■Optional Parts

Glass Thickness		Wood Shelf	Center Panel	Back Side Panel
8 mm	10 mm			
○	○	–	–	○

UNIT SHELF TYPE "C" (P.204) XLA-US02C



Can also be used as partition.

■Optional Parts

Glass Thickness		Wood Shelf	Center Panel	Back Side Panel
8 mm	10 mm			
○	○	○	○	–

UNIT SHELF TYPE "K" (P.207) XLA-US02K



- The shelf is clamped from bottom on the frame.
- Can also be used for wooden shelf.

■Optional Parts

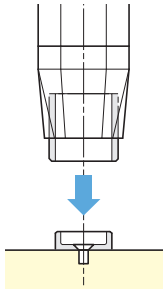
Glass Thickness		Wood Shelf	Center Panel	Back Side Panel
8 mm	10 mm			
–	○	○	○	–



Fixable on wall.



Adjustable height by using the optional parts.



Prevents the slippage by using the optional part.



Wood shelf is also installable.



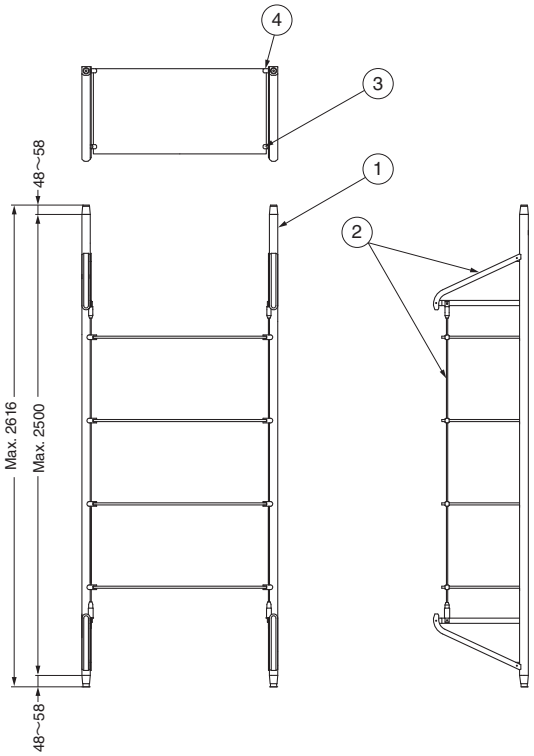
Cover for groove.

Suits various space

- Not only ceiling and floor but also fixable with wall and floor.
- Wooden shelves are also installable.
- Groove of the frame can be hidden with the original cover.

UNIT SHELF TYPE "B" XLA-US02B





■Features

- Designed for top/bottom pressure fit installation with extendable leveling glide.
- Can also be wall mounted by using optional wall mounting bracket.
- Adjustable shelf height.

■Application

- Shelf at store or house, showcase
- Walk-in closet

Load Capacity N		294 N/Shelf
Load Capacity kgf		30 kgf/Shelf
Glass Thickness		8 or 10
Glass Width	Glass Width: 8 mm	Max. 1200
	Glass Width: 10 mm	Max. 1500
Glass Depth		400～450
Vertical-Frame Height		2000～2500

■XLA-US02B Parts Set (for 1 shelf)

Item Code	Item Name (set)	Weight
130-031-021	XLA-US02B	19.8 kg

- Parts Included

	Item Name	Part Name	Qty
①	XLA-US02-S006	Vertical Frame	2 sets
②	XL-US02-S011	Wire Kit	2 sets
③	XL-US01-F20	Shelf Clamp for Wire Shaft	8 pcs
④	XL-US01-B20	Shelf Clamp for Main Frame	8 pcs

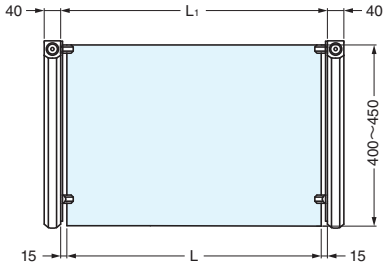
Glass is not included.

■Application Example



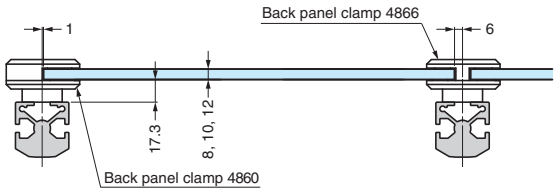
●Can be used as glass partition by installing glass panel at the back side.

■Glass Shelf Dimensions

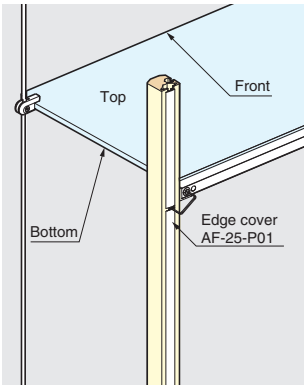


L (Glass width) = L1 (Distance between frames) −30

■Back Panel Installation

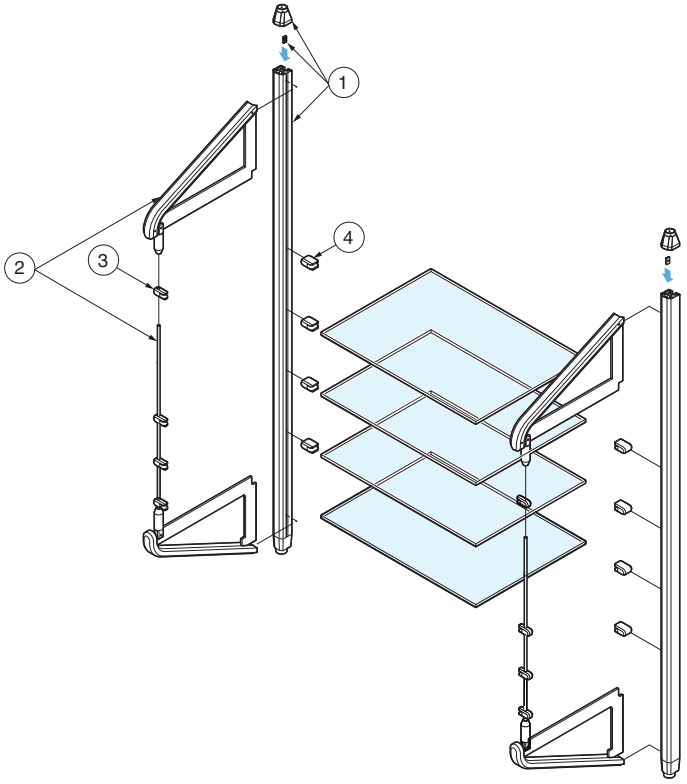


■Glass Preparation (When Using LED)

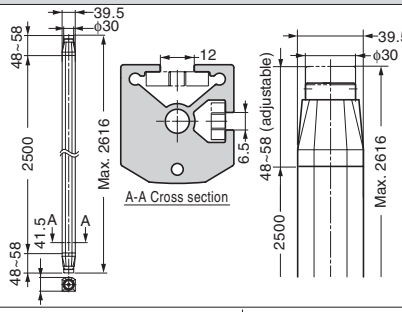
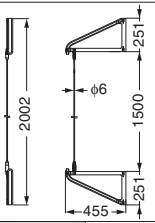
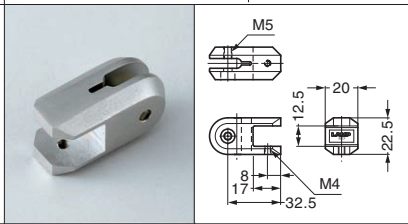
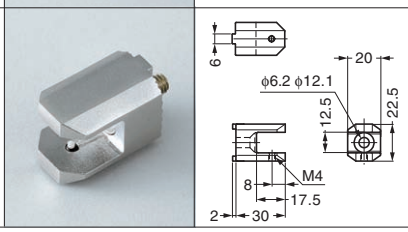


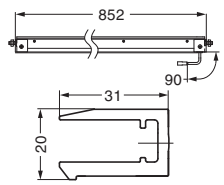
●Sandblasting on top, bottom, front and sides of glass shelf with use of LED will provide the "glow" look.
●Ultra clear glass recommended.
●Edge cover AF-25-P01 covers and keeps wires inside frame slot.

■Detailed View

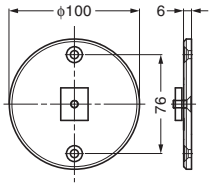
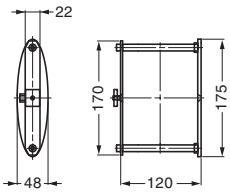
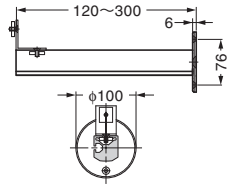
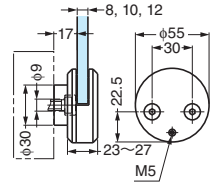
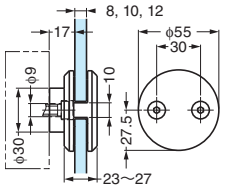
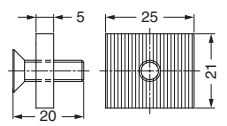
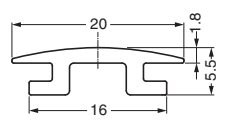


■XLA-US02B Part Details

No.	Item Code	Item Name		Dimensions	Type	Qty
①	130-031-023	XLA-US02-S006	Vertical Frame (1 Slot Type)		●Material Aluminium, Zinc Alloy ●Finish / Colour Anodized, Grey ●Length Max. Height : 2600 mm (Floor to ceiling)	1 set
②	130-018-058	XL-US02-S011-P	Type B Wire Kit		●Material Aluminium, Steel, 430 Stainless Steel ●Finish / Colour Matte Chrome *For main frame 2100 mm ～ 2500 mm.	1 set
③	130-186-001	XL-US01-F20	Type B Shelf Clamp (For Wire Shaft)		●Material Zinc Alloy ●Finish / Colour Matte Chrome *2 pcs necessary for 1 shelf.	1 pc
④	130-186-002	XL-US01-B20	Type B Shelf Clamp (For Main Frame)		●Material Zinc Alloy ●Finish / Colour Matte Chrome *2 pcs necessary for 1 shelf.	1 pc

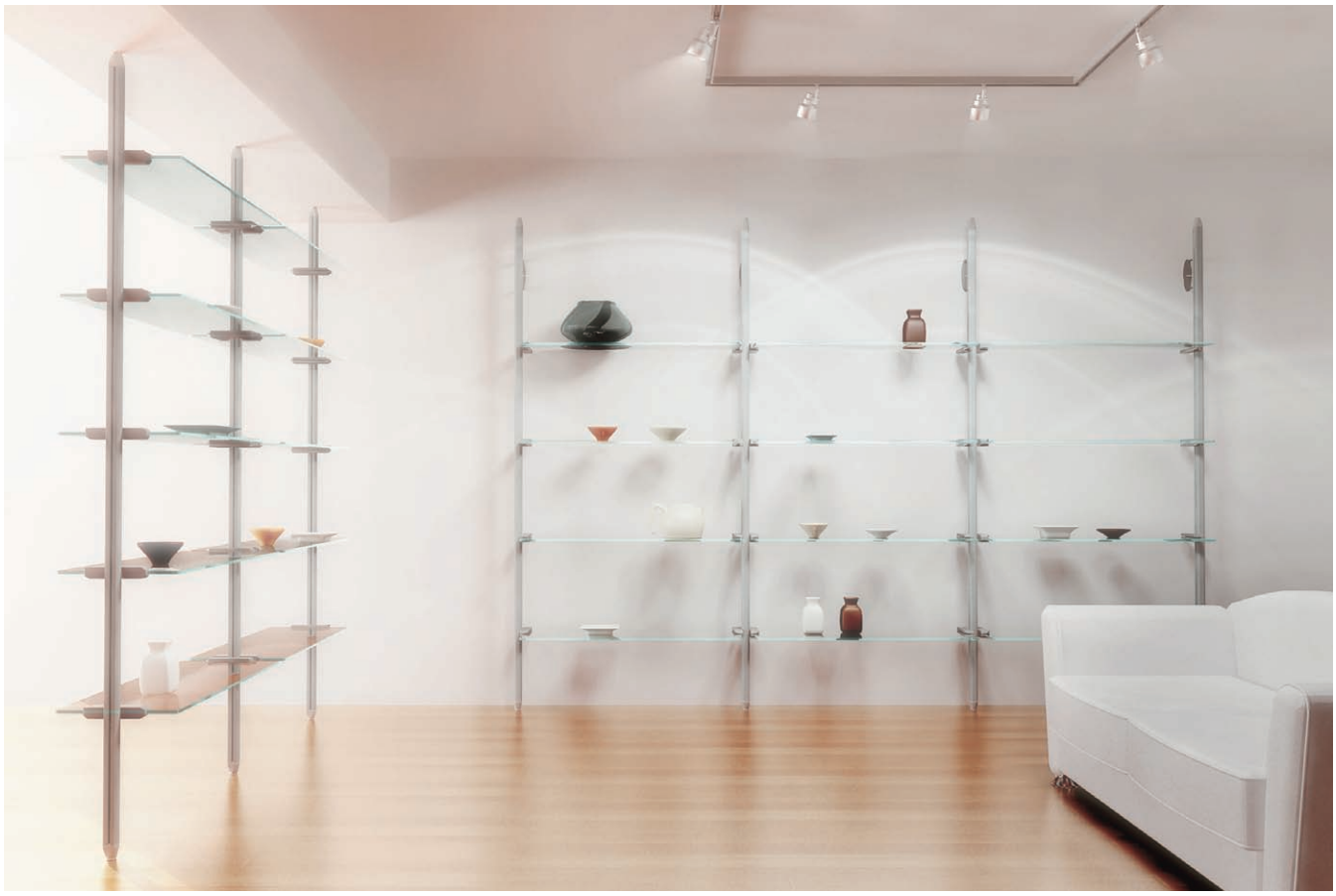
No.	Item Code	Item Name		Dimensions	Type	Qty
⑤	130-030-287	XL-US01-W900L-B	Shelf Support with Blue LED (For Main Frame 1 pc / shelf)	 	●Aluminium Zinc Alloy ●Finish / Colour Matte Chrome ●Width For glass width 900 mm ●LED Colour Blue, White Power adapter not included. *Recommended adapter Output : DC 24 V 1 A, Plug : 2.5 x 5.5 mm (+), 2 shelves per adapter	1 pc
⑥	130-030-285	XL-US01-W900L-W	Shelf Support with White LED (For Main Frame 1 pc / shelf)			

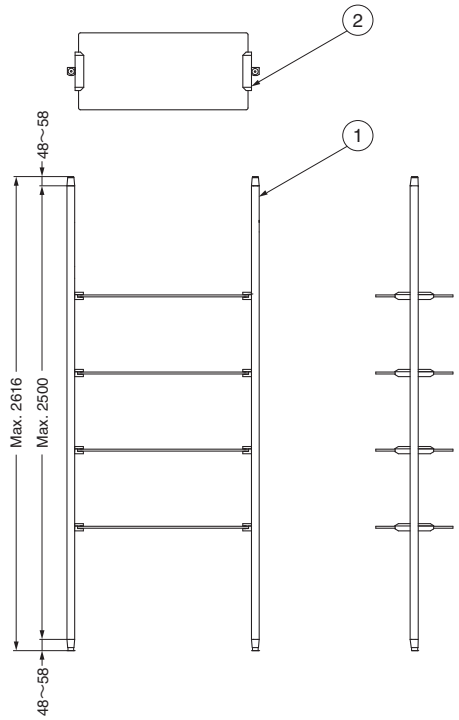
■XLA-US02B Option Parts

Item Code	Item Name		Dimensions	Type	Qty
130-180-819	XL-US02-S010	Wall Mounting Plate (For Type B)	 	●Material Aluminium ●Finish / Colour Anodized *To be used with main frame.	1 pc
130-188-732	XL-US02-S008	Wall Mounting Bracket	 	●Material 304 Stainless Steel, Steel ●Finish / Colour Grey	1 pc
130-180-591	XL-US02-S009	Wall Mounting Bracket	 	●Material 304 Stainless Steel, Steel ●Finish / Colour Anodized	1 pc
120-180-042	4860ZN1	Back Panel Clamp	 	●Material Zinc Alloy ●Panel Thickness 8～ 12 mm ●Finish / Colour Matte Chrome (ZN1) Chrome (ZN5) *Holds panel between main frames.	1 pc
120-180-043	4860ZN5				
120-180-044	4866ZN1	Back Panel Clamp	 	●Material Zinc Alloy ●Panel Thickness 8～ 12 mm ●Finish / Colour Matte Chrome (ZN1) Chrome (ZN5) *Holds panel between main frames (2 slot type).	1 pc
120-180-045	4866ZN5				
130-031-035	XL-US02-S013	Back Panel Clamp Fastener	 	●Material 304 Stainless Steel ●Finish / Colour Plain *Nut / Bolt to fasten back panel clamp and main frame.	1 pc
270-940-959	AF-25-P01-25	Edge Cover	 	●Material Synthetic Rubber ●Finish / Colour Light Grey ●Length 2500 mm	1 pc

※SCS13 is equivalent of SUS304.

UNIT SHELF TYPE "C" XLA-US02C





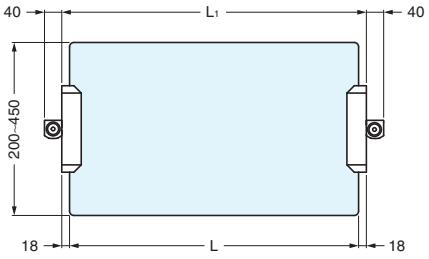
■Features

- Can also be used as partition.
- Adjustable shelf height.

■Application

- Shelf at store or house, showcase
- Walk-in closet

■Glass Shelf Dimensions



L(Glass width) = L1 (Distance between frames)−36

Load Capacity N		343 N/Shelf
Load Capacity kgf		35 kgf/Shelf
Glass Thickness		8 or 10
Glass Width	Glass Width: 8 mm	Max. 1200
	Glass Width: 10 mm	Max. 1500
Glass Depth		200～450
Vertical-Frame Height		Max. 2500

■XLA-US02C Parts Set (for 1 shelf)

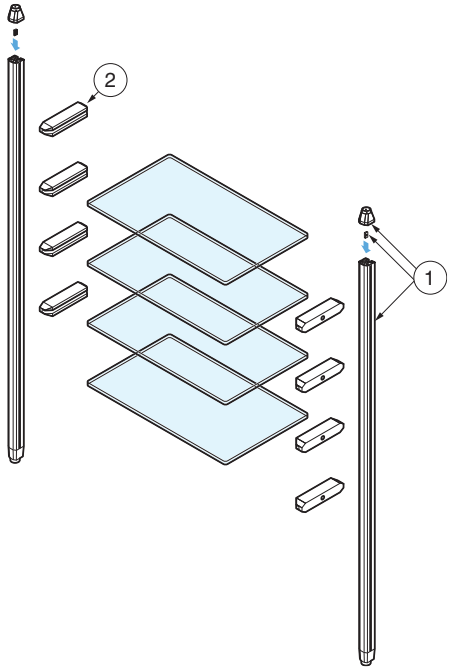
Item Code	Item Name (set)	Weight
130-031-020	XLA-US02C	15.1 kg

- Parts Included

	Item Name	Part Name	Qty
①	XLA-US02-S007	Vertical Frame	2 sets
②	XL-US01-S200	Shelf Clamp (For Glass Shelf)	8 pcs

Glass is not included.

■Detailed View



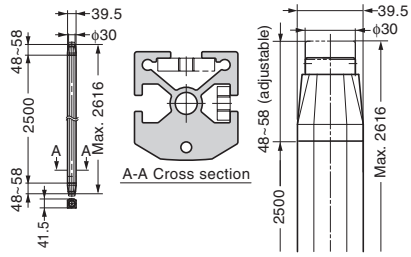
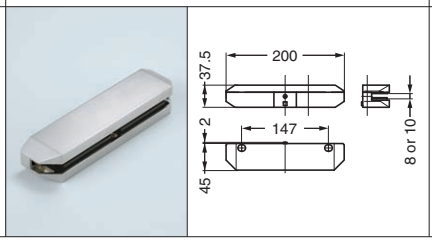


XL-US02-S008

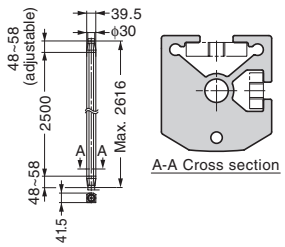
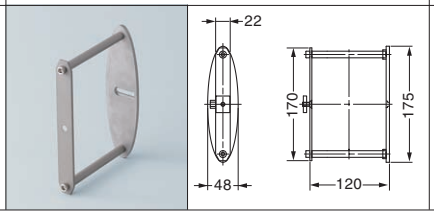


XL-US02-S009

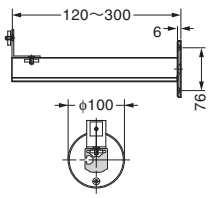
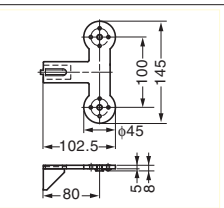
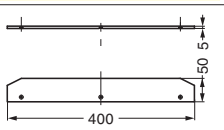
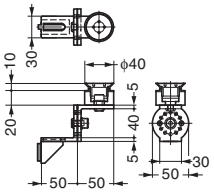
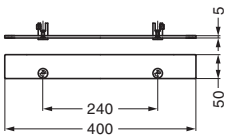
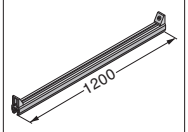
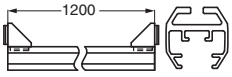
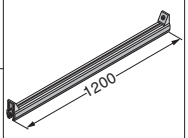
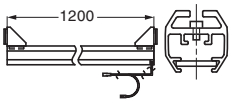
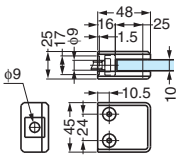
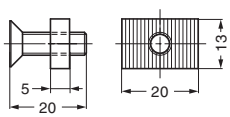
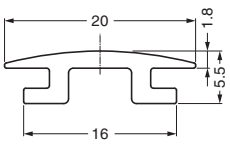
■XLA-US02C Part Details

No.	Item Code	Item Name		Dimensions	Type	Qty
①	130-031-024	XLA-US02-S007	Vertical Frame (2 Slot Type)		●Material Aluminium, Zinc Alloy ●Finish / Colour Anodized, Grey ●Length Max. Height : 2600 mm (Floor to Ceiling) *Single slotted frame available. Please see XLA-US02-S006 below for details.	1 set
②	120-186-000	XL-US01-S200	Shelf Clamp (For Glass Shelf)		●Material Zinc Alloy, Elastomer ●Finish / Colour Matte Chrome, Black ●Glass Thickness 8 mm, 10 mm *2 Clamps necessary for 1 shelf. *Glass shelf not included.	1 pc

■XLA-US02C Option Parts

Item Code	Item Name		Dimensions	Type	Qty
130-031-023	XLA-US02-S006	Vertical Frame (1 Slot Type)		●Material Aluminium, Zinc Alloy ●Finish / Colour Anodized, Grey ●Length Max. Height : 2600 mm (Floor to Ceiling)	1 set
130-188-732	XL-US02-S008	Wall Mounting Bracket		●Material 304 Stainless Steel, Steel ●Finish / Colour Grey	1 pc

※SCS13 is equivalent of SUS304.

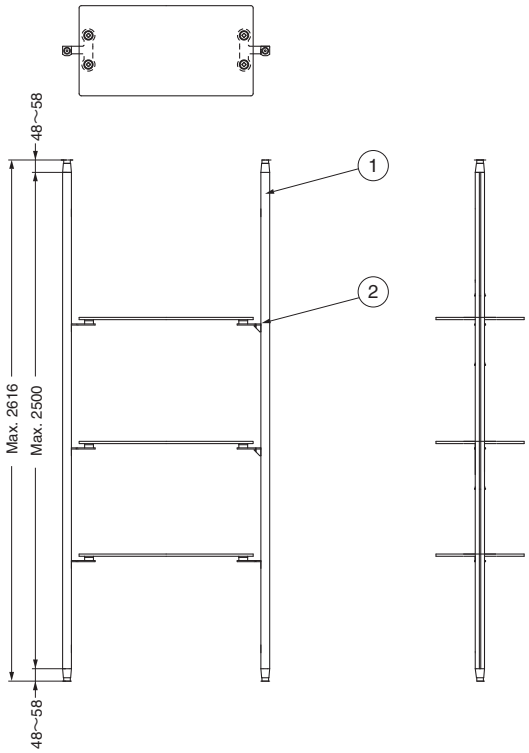
Item Code	Item Name		Dimensions		Type	Qty
130-180-591	XL-US02-S009	Wall Mounting Bracket			●Material 304 Stainless Steel, Steel ●Finish / Colour Anodized	1 pc
130-031-027	XL-US02-S002	Shelf Support (For Wood Shelf)			●Material Stainless Steel (SCS13) ●Finish / Colour Shot Blast	2 sets
130-180-553	XLA-US02-S014	Shelf Edge (For Wood Shelf)			●Material 304 Stainless Steel, Steel ●Finish / Colour Anodized	1 pc
130-031-028	XL-US02-S003	Shelf Support for Glass (Angle Adjustable)			●Material Stainless Steel (SCS13) ●Finish / Colour Shot Blast	2 sets
270-180-387	Z058	Adjustable Face Pin			Required to Install Shelf Support for Glass	1 pc
130-031-029	XLA-US02-S015	Shelf Edge (For Glass Shelf)			●Material Aluminium, Zinc Alloy ●Finish / Colour Anodized, Matte Chrome *Prevents items from falling off. *For glass shelf. *To be mounted on front or back edge.	1 set
130-031-030	XL-US02-S004	Hanger for Horizontal Frame			●Material Aluminium, Zinc Alloy ●Finish / Colour Matte Chrome	1 set
220-031-031	XL-US02-S004L-B	Hanger for Horizontal Frame with LED (Blue)			●Material Aluminium, Zinc Alloy ●Finish / Colour Matte Chrome	1 set
220-031-032	XL-US02-S004L-W	Hanger for Horizontal Frame with LED (Cyan)				
120-181-389	9344VA2	Centre Panel Clamp			●Material Stainless Steel SUS316 ●Finish / Colour Satin	1 pc
130-031-034	XL-US02-S012	Centre Panel Fastener			●Material Steel ●Parts Included Screw (Stainless Steel) ●Finish / Colour Nickel	1 pc
270-940-959	AF-25-P01-25	Edge Cover			●Material PTE ●Finish / Colour Grey	1 pc

※SCS13 is equivalent of SUS304.

UNIT SHELF TYPE "K"

XLA-US02K





■Features

Shelf height adjustable.

■Application

- Shelf at store or house, showcase
- Walk-in closet

Load Capacity N	490 N/Shelf
Load Capacity kgf	50 kgf/Shelf
Glass Thickness	10
Glass Width	Max. 1200
Glass Length	Max. 450
Height & Vertical Frame	Max. 2500

■XLA-US02K Parts Set (for 1 shelf)

Item Code	Item Name (set)	Weight
130-031-022	XLA-US02K	12.4 kg

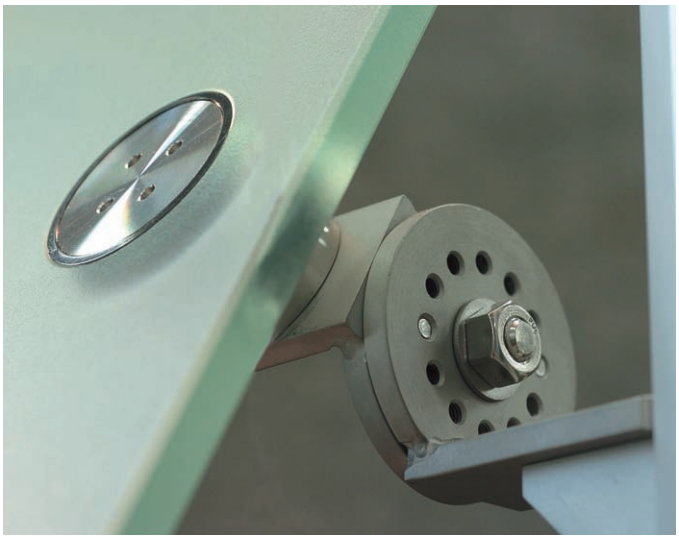
- Parts Included

	Item Name	Part Name	Qty
①	XLA-US02-S007	Vertical Frame	2 sets
②	XL-US02-S001	Shelf Clamp (For Glass Shelf)	3 sets

Glass is not included.

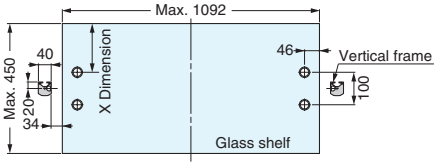
■Application Example

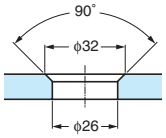




●The shelf is adjustable every 30 degrees by an optional part.

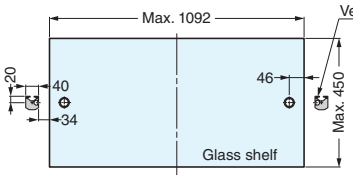
■Glass Shelf Dimension

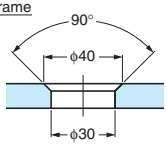




Glass processing

■Glass Shelf Dimension (For Angular Adjustment Shelf)





Glass processing

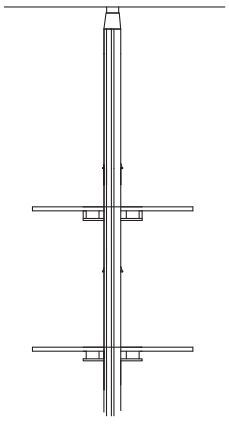
■Dimension X

With	X
XL-US02-S008	70
XL-US02-S009	70～175

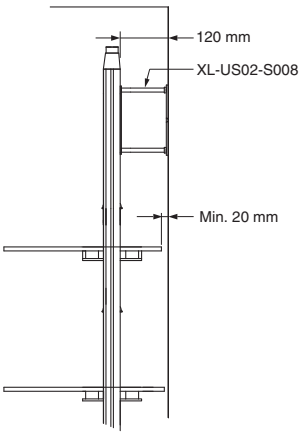
●The dimension is different depend on how to fix vertical frame.

■Install Variation of Vertical Frame

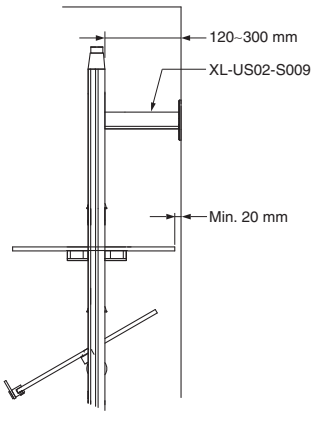
●Fixing on roof and floor



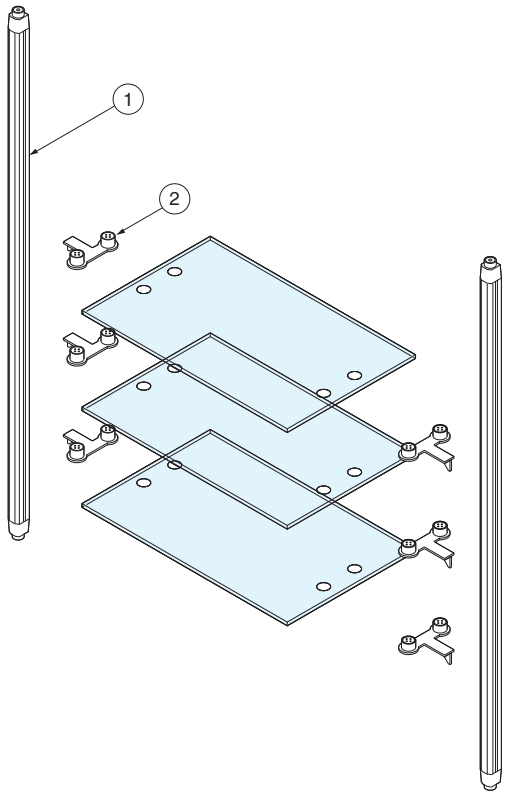
●Fixing on wall by Wall Mounting Bracket (XL-US02-S008)



●Fixing on wall by Wall Mounting Bracket (XL-US02-S009)



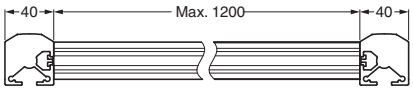
■Detailed View



■Installation

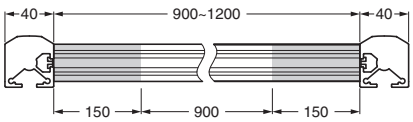


Used with XL-US02-S004 for hanging clothes.



Hanger bar XL-US02-S004

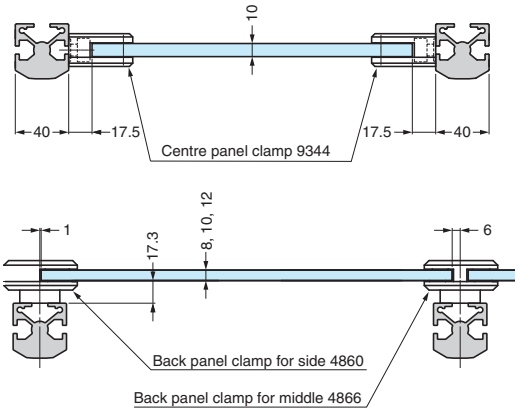




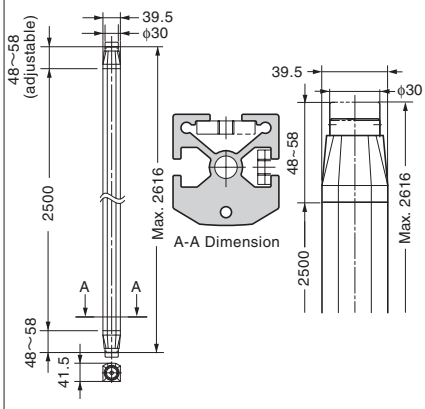
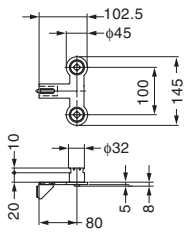
LED light bar XL-US02-S004L- B
XL-US02-S004L-W

Length (Max.)	1200
LED Position	Mid-900
Cut-off Range	Both ends 150

■Installation

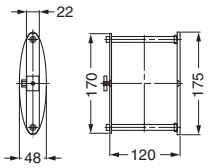
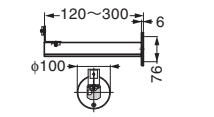
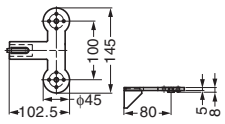
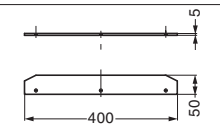
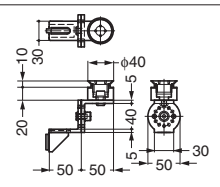
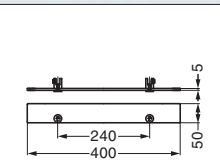
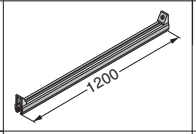
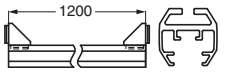
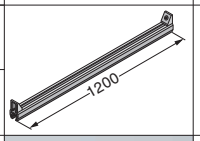
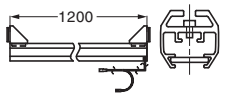
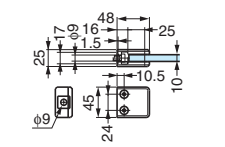
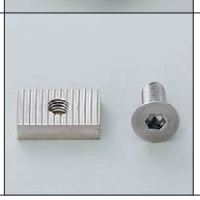
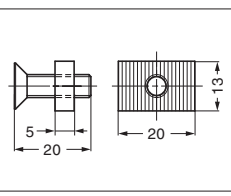


■XLA-US02K Part Details

No.	Item Code	Item Name		Dimensions	Type	Qty
①	130-031-024	XLA-US02-S007	Vertical Frame (2 Slot Type)		●Material Aluminium, Zinc Alloy ●Finish / Colour Anodized, Grey ●Length Max. Height : 2600 mm (Floor to Ceiling)	1 set
②	130-031-026	XL-US02-S001	Shelf Support (For Glass)	 	●Glass Shelf Support for Type K. ●Material Stainless Steel SCS13 ●Finish / Colour Polished, Shot Blast	2 sets

※SCS13 is equivalent of SUS304.

■XLA-US02K Option Parts

Item Code	Item Name		Dimensions	Type	Qty
130-188-732	XL-US02-S008	Wall Mounting Bracket	 	●Material 304 Stainless Steel, Steel ●Finish / Colour Grey	1 pc
130-180-591	XL-US02-S009	Wall Mounting Bracket	 	●Material 304 Stainless Steel, Steel ●Finish / Colour Anodized	1 pc
130-031-027	XL-US02-S002	Shelf Support (For Wood)	 	●Material Stainless Steel (SCS13) ●Finish / Colour Shot Blast	2 sets
130-180-553	XLA-US02-S014	Shelf Edge (For Wood Shelf)	 	●Material 304 Stainless Steel, Steel ●Finish / Colour Anodized	1 pc
130-031-028	XL-US02-S003	Shelf Support For Glass (Angle Adjustable)	 	●Material Stainless Steel (SCS13) ●Finish / Colour Shot Blast	2 sets
270-180-387	Z058	Adjustable Face Pin		Required to Install Shelf Support for Glass.	1 pc
130-031-029	XLA-US02-S015	Shelf Edge (For Glass Shelf)	 	●Material Aluminium, Zinc Alloy ●Finish / Colour Anodized, Matte Chrome *Prevents items from falling off. *For glass shelf. *To be mounted on front or back edge.	1 set
130-031-030	XL-US02-S004	Hanger for Horizontal Frame	 	●Material Aluminium, Zinc Alloy ●Finish / Colour Matte Chrome	1 set
220-031-031	XL-US02-S004L-B	Hanger for Horizontal Frame with LED (Blue)	 	●Material Aluminium, Zinc Alloy ●Finish / Colour Matte Chrome	1 set
220-031-032	XL-US02-S004L-W	Hanger for Horizontal Frame with LED (Cyan)			
120-181-389	9344VA2	Centre Panel Clamp	 	●Material Stainless Steel SUS316 ●Finish / Colour Satin	1 pc
130-031-034	XL-US02-S012	Centre Panel Fastener	 	●Material Steel ●Finish / Colour Nickel ●Parts Included Screw (Stainless Steel)	1 pc

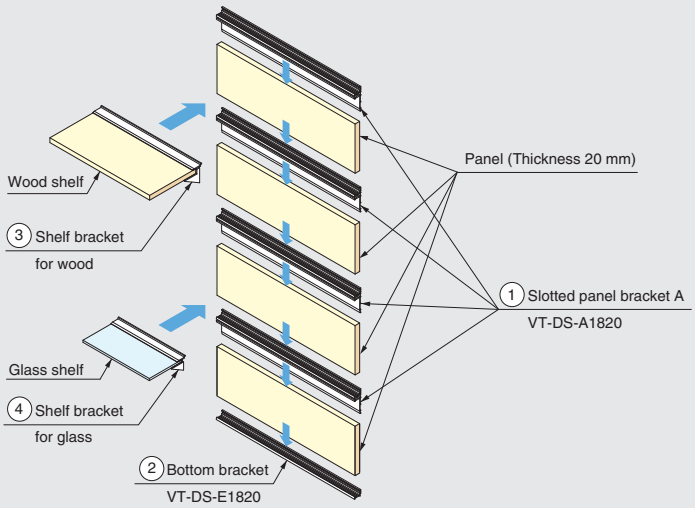
※SCS13 is equivalent of SUS304.

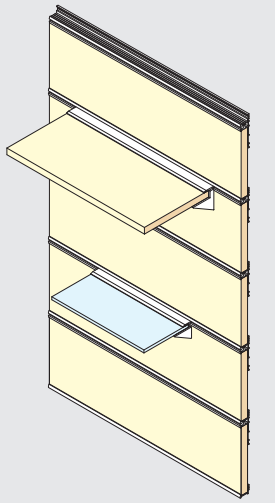
LEVEL ADJUSTABLE SHELVING SYSTEM VT-DS

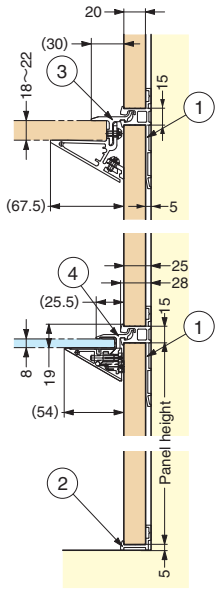


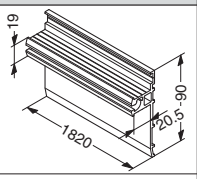
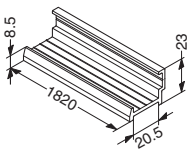
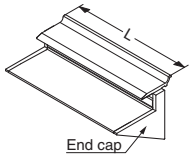
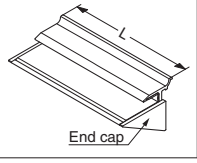
■Features

- Slotted shelving system for flexible layout.
- Shelves can be installed anywhere in the slot.
- Simple and easy installation.
- Use with desired panel to match the surrounding design.
- Panel Size : Thickness - 20 mm
  Width - Max. 1820 mm
  Height - 105～405 mm
  *Panel not included
- Shelf bracket for wood or glass available. (Shelf board not included)
- Level adjustable.







	Item Code	Item Name		Dimensions	Material	Finish/ Colour	Length L	Panel Thickness	Shelf Board Width	Shelf Board Depth	Shelf Board Thickness	Load Capacity※		Weight
①	130-031-205	VT-DS-A1820	Slotted Panel Bracket A		Aluminium Alloy	Anodized Silver	1820	20	–	–	–	–	–	2.6 kg
②	130-031-207	VT-DS-E1820	Top/Bottom Bracket		Aluminium Alloy	Anodized Silver	1820	20	–	–	–	–	–	0.8 kg
③	130-031-201	VT-DS-X-450	Shelf Bracket for Wood		Aluminium Alloy, ABS	Anodized Silver, Grey	443	–	450～600	150～300	18～22	392 N	40 kgf	1.2 kg
	130-031-202	VT-DS-X-800					793		800～900					2.0 kg
④	130-031-203	VT-DS-G-450	Shelf Bracket for Glass		Aluminium Alloy, ABS	Anodized Silver, Grey	443	–	450～600	150～300	8	98 N	10 kgf	0.8 kg
	130-031-204	VT-DS-G-685					678		685～900					1.2 kg

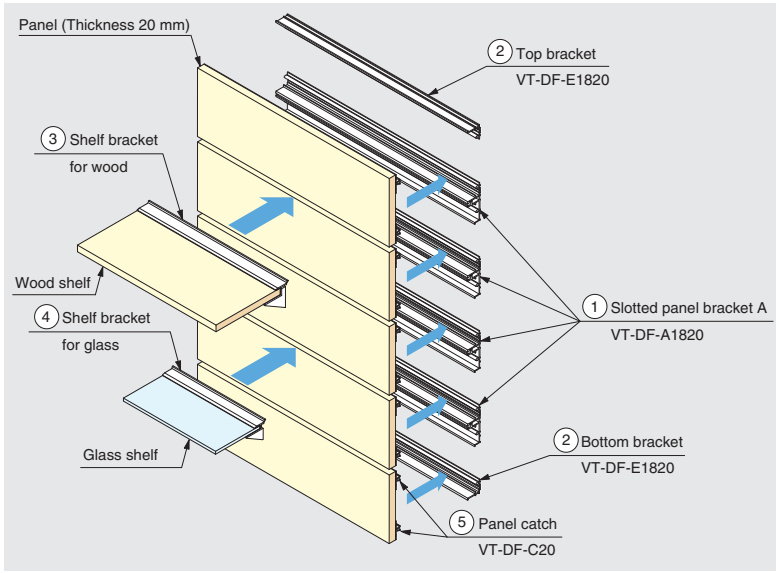
※Load capacity does not include weight of shelf.

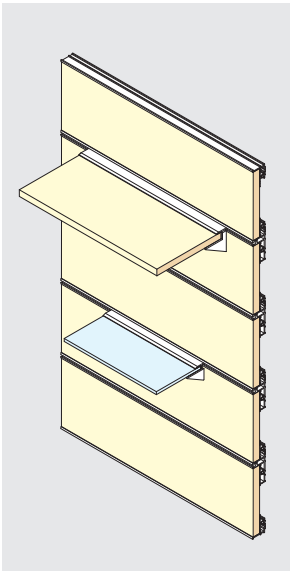
LEVEL ADJUSTABLE SHELVING SYSTEM VT-DF

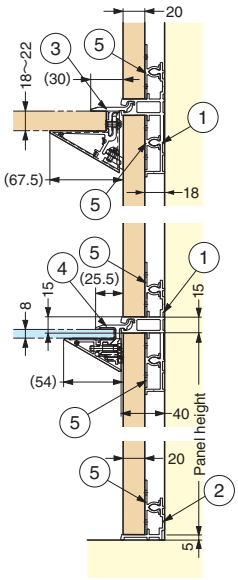


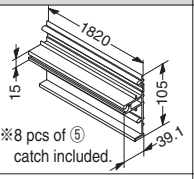
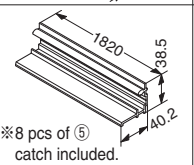
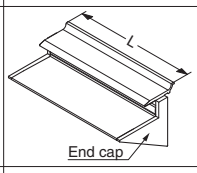
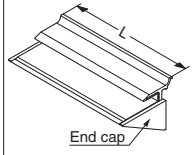
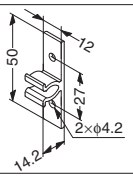
■Features

- Slotted shelving system for flexible layout.
- Shelves can be installed anywhere in the slot.
- Simple and easy installation.
- Use with desired panel to match the surrounding design.
- Snap-in type catch for easy panel installation.
- Panel Size : Thickness - 20 mm
  Width - Max. 1820 mm
  Height - 105～405 mm
  *Panel not included
- Designed to have space behind panels for electric wiring.
- Shelf bracket for wood or glass available. (Shelf board not included)
- Level adjustable.







	Item Code	Item Name		Dimensions	Material	Finish/ Colour	Length L	Panel Thickness	Shelf Board Width	Shelf Board Depth	Shelf Board Thickness	Load Capacity※		Weight
①	130-031-206	VT-DF-A1820	Slotted Panel Bracket A	 ※8 pcs of ⑤ catch included.	Aluminium Alloy	Anodized Silver	1820	20	–	–	–	–	–	3.4 kg
②	130-031-208	VT-DF-E1820	Top/Bottom Bracket	 ※8 pcs of ⑤ catch included.	Aluminium Alloy	Anodized Silver	1820	20	–	–	–	–	–	1.4 kg
③	130-031-201	VT-DS-X-450	Shelf Bracket for Wood		Aluminium Alloy, ABS	Anodized Silver, Grey	443	–	450～600	150～300	18～22	392 N	40 kgf	1.2 kg
	130-031-202	VT-DS-X-800					793		800～900					2.0 kg
④	130-031-203	VT-DS-G-450	Shelf Bracket for Glass		Aluminium Alloy, ABS	Anodized Silver, Grey	443	–	450～600	150～300	8	98 N	10 kgf	0.8 kg
	130-031-204	VT-DS-G-685					678		685～900					1.2 kg
⑤	130-031-209	VT-DF-C20	Panel Catch		Polyacetal (POM)	Natural	–	–	–	–	–	–	–	3 g

※Load capacity does not include weight of shelf.

SHELVING SYSTEM VT







Application examples

- Visually discreet concealed rail shelving system.
- High weight resistance, easy to alter parts after construction.
- Favorable shelf board with thickness of 2.5～ 4 mm can be chosen.
- Accessories available.





- Easy to remove parts.
- High load capacity
  Wooden shelf : 40 kgf

*Remarks : VT series are not compatible with VT-DS (P.211) and VT-DF (P.212).



VT-H15 hook example



VT-H15 hook example

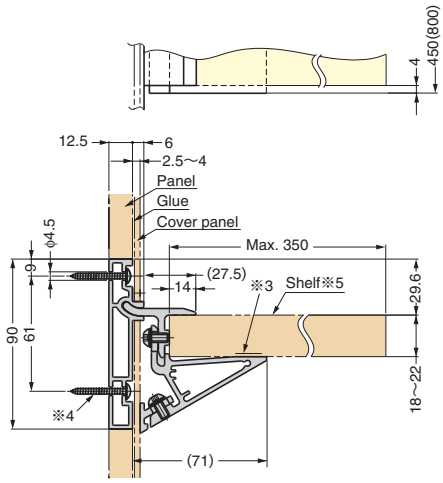


VT-K350 shelf example

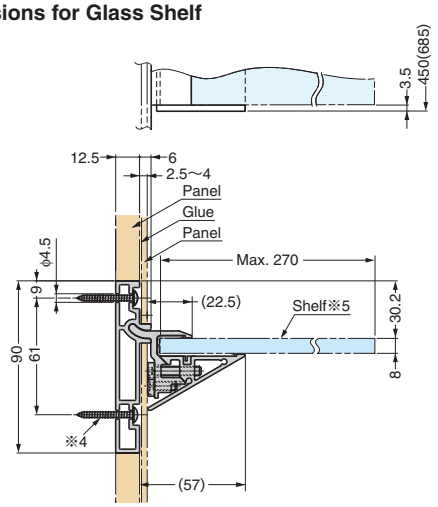
	Door Thickness	Depth	Max. Width	Load Capacity ※2	
Wood Shelf Panel ※1	18～22	350	800	392 N	40 kgf
Glass Shelf Panel ※1	8	270	890	98 N	10 kgf

※1 Shelf panels are not included.
※2 Load capacity does not include the weight of shelf panel.

■Dimensions for Wood Shelf



■Dimensions for Glass Shelf



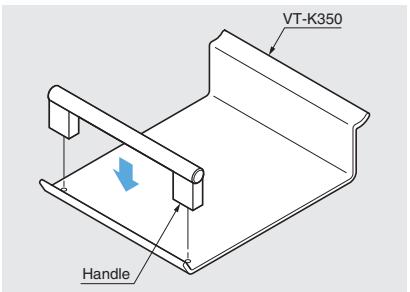
※3：Adhesive tape required.　※4：Required screws: 4×50　※5：Shelves are not included.

■Application Examples



■Application Examples





Combination of VT-K350 (P.216) and handle.

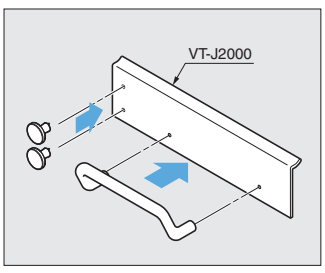
■Application Examples



with I1014 (P.29)

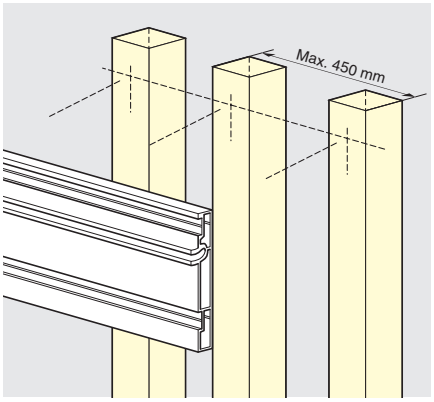


with TS (P.80) and LF-12 (P.24)

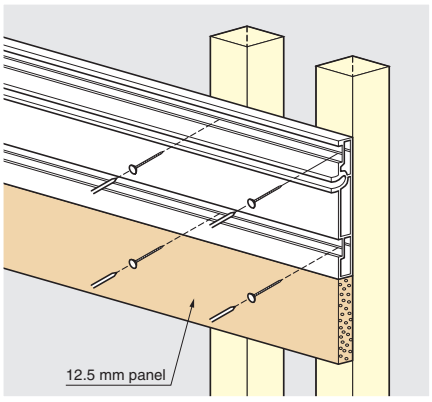


- Combination of VT-J2000 (P.216) and handle.
- Aluminium profile that can be cut to length.

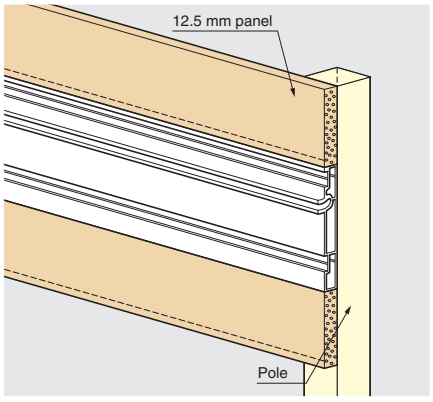
■Installation



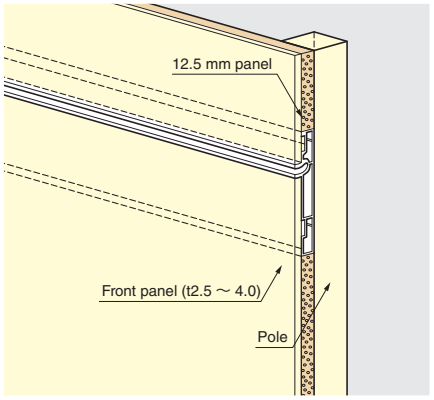
1. Decide application position. Make sure to place horizontally.



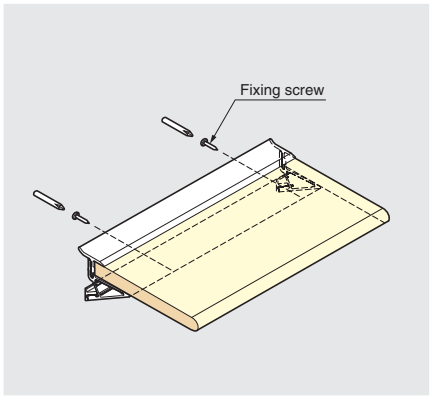
2. Apply an extra panel (12.5 mm) below the rail. Screw the board in place.



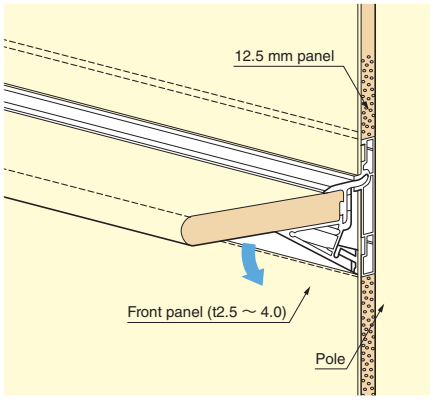
3. Next, apply a second panel (12.55 mm) above the rail.



4. Conceal rail, panels with 2.5 mm ~ 4.0 mm board.

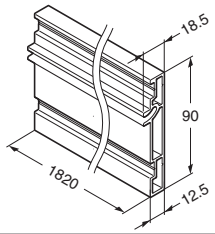
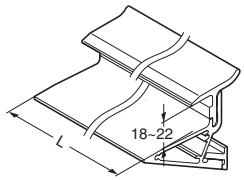


5. Attach shelf and shelf holder with screws as shown in the above.

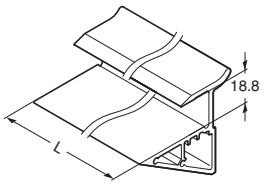
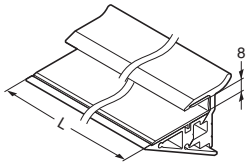
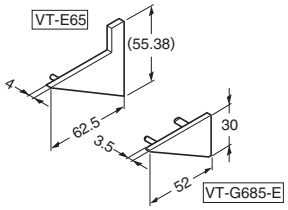
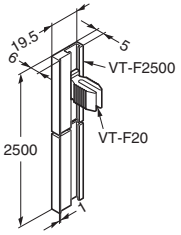
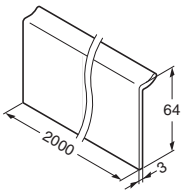
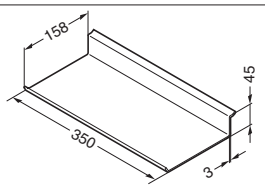
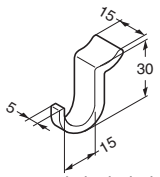
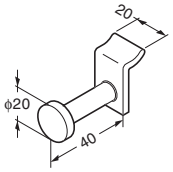


6. Slant the shelf board into the rail slot and drop down once the board is horizontal.

■VT Part Details

Item Code	Item Name		Dimensions	Material/Finish	Length L	Shelf Thickness	Load Capacity		Weight
130-030-690	VT-A1820	Slotted Panel Bracket		Aluminium Alloy / Anodized Silver	1820	—	—	—	2.5 kg
130-031-196	VT-X450	Shelf Bracket for Wood	 ※End cap VT-E65 is included.	Aluminium Alloy / Anodized Silver	442	18~ 22	392 N※	40 kgf※	1.2 kg
130-030-691	VT-X800				792				2.2 kg

※Load capacity does not include the weight of shelf panel.

Item Code	Item Name		Dimensions	Material/Finish	Length L	Shelf Thickness	Load Capacity		Weight
130-031-198	VT-18-X450	Bracket for Wood Shelf 18 mm	 End cap VT-G685 is included.	Aluminium Alloy / Anodized Silver	443	18	98 N※	10 kgf※	0.8 kg
130-031-199	VT-18-X800			Aluminium Alloy / Anodized Silver	793	18	98 N※	10 kgf※	1.3 kg
130-031-197	VT-G450	Bracket for Glass Shelf 8 mm	 End cap VT-G685 is included.	Aluminium Alloy / Anodized Silver	443	8	98 N※	10 kgf※	0.9 kg
130-030-689	VT-G685			Aluminium Alloy / Anodized Silver	678	8	98 N※	10 kgf※	1.2 kg
130-130-483	VT-G890			Aluminium Alloy / Anodized Silver	883	8	98 N※	10 kgf※	1.6 kg
130-038-979	VT-E65	End Cap (left/right set)	 This picture is for right side.	ABS Resin / Grey Finish	–	–	–	–	9 g
130-941-007	VT-G685-E	End Cap (left/right set)		ABS Resin / Grey Finish	–	–	–	–	6 g
130-030-379	VT-F2500	End Parts		Aluminium Alloy / Anodized Silver	2500	–	–	–	0.6 kg
130-941-008	VT-F20	End Connector		Polyacetal (POM) / Natural	–	–	–	–	2 g
130-030-382	VT-J2000	Plate Hook		Aluminium Alloy / Anodized Silver	2000	–	392 N	40 kgf	1.5 kg
130-030-384	VT-K350	Tray	 BS clear bumper BS-1 and BS-5 are included. (4 pcs each)	Aluminium Alloy / Anodized Silver	350	–	98 N	10 kgf	0.8 kg
130-020-327	VT-H15	Hook A	 Adhesive tape is included.	Aluminium Alloy / Anodized Silver	–	–	49 N	5 kgf	9 g
130-020-325	VT-H20	Hook B	 Adhesive tape is included.	Aluminium Alloy / Anodized Silver	–	–	49 N	5 kgf	21 g

※Load capacity does not include the weight of shelf panel.

FLUQS® WALL SHELVING SYSTEM





FLUQS®
Exto Series

FLUQS is a unique wall shelving system with an artistic touch and a contemporary look.

The word FLUQS is from Latin "flatus" for wave, FLUQS frees you to arrange shelves in any pattern or configuration, how and when you please. The aluminium profile system is easy to install and adjust and visually coordinates well with gleaming aluminium, white or black finishes.



Easily blends into any atmosphere.

- Fixing screws are invisible after installation.
- Shelves available in acrylic and aluminium plate.
- 2 types available: FLUQS 250/750 which can be used as wall panels and FLUQS 25/ ONE which has single hook base match with any wall design.

Designed for safety and flexibility

- Easy installation - simply screw in place (base required).
- Accessories such as hooks and shelves fit firmly and stay put.

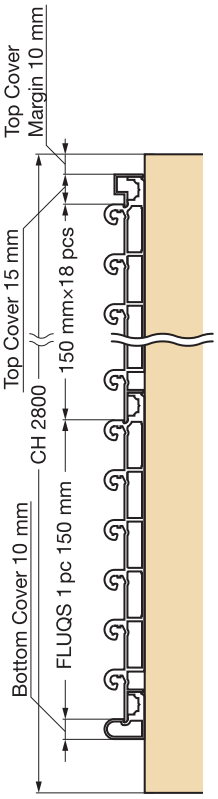
FLUQS® WALL SHELVING SYSTEM

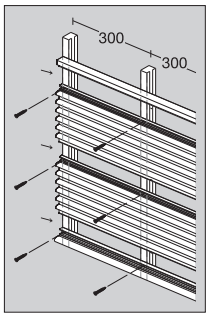
FLUQS® 250/750

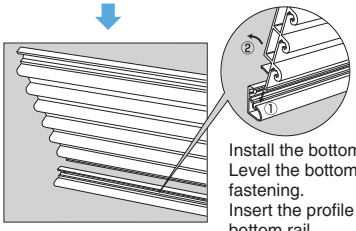


Installation Example

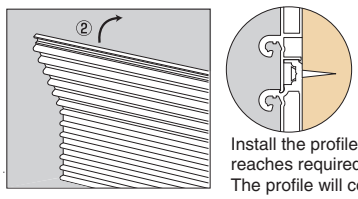
Ceiling Height (CH) : 2800 mm



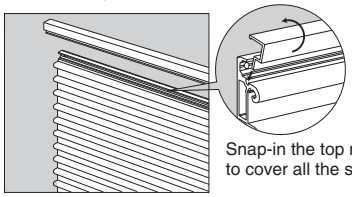




Install the bottom rail ①.
Level the bottom rail before fastening.
Insert the profile ② into the bottom rail.
Fasten with screws.

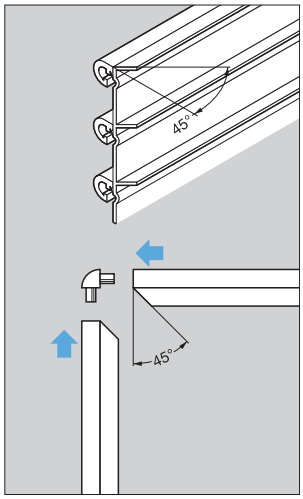


Install the profile ② until it reaches required height.
The profile will cover the screws.



Snap-in the top rail to cover all the screws.

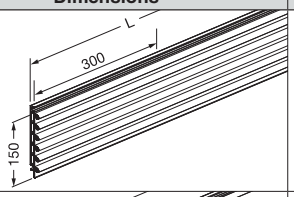
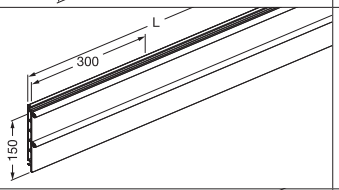
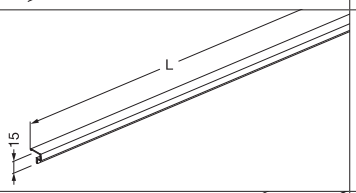
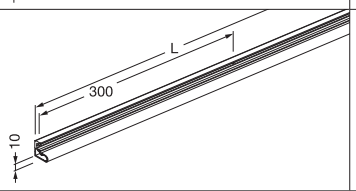
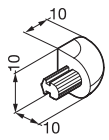
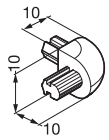
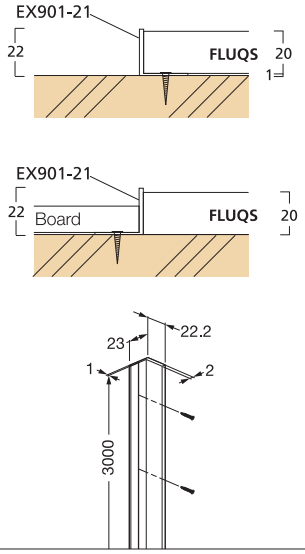
Corner Installation





Corner Example

■FLUQS 250/750 Part Details

No.	Item Code	Item Name		Dimensions	Material/Finish	Length	Description
①	130-031-306	EX001-21	Main Panel FLUQS 250		Aluminium / Anodized	1820 mm	●Basic Aluminium Wall Panel (Rail pitch 25 mm) ●Screw hole pitch 300 mm
②	130-031-307	EX004-21	Main Panel FLUQS 750		Aluminium / Anodized		●Basic Aluminium Wall Panel (Rail pitch 75 mm) ●Screw hole pitch 300 mm
③	130-031-308	EX007-21	Top Cover		Aluminium / Anodized		●Top Cover Track ●Covers the screw heads
④	130-031-309	EX008-21	Bottom Rail		Aluminium / Anodized		●Bottom Track ●Screw hole pitch 300 mm
⑤	130-030-422	EX905-21	End Cap (1Way Type)		ABS / Matte Silver	–	–
⑥	130-030-424	EX906-21	End Cap (2Way Type)		ABS / Matte Silver	–	–
⑦	130-031-385	EX901-21	Corner Angle		Aluminium / Anodized	3000 mm	●Corner plate to cover the edge of aluminium panel. ●Screws not included.

*Please see P.222 for accessories.

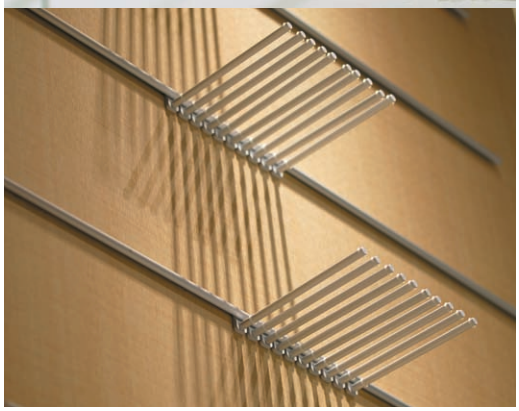
FLUQS® WALL SHELVING SYSTEM

FLUQS® 25/ONE



FLUQS 25

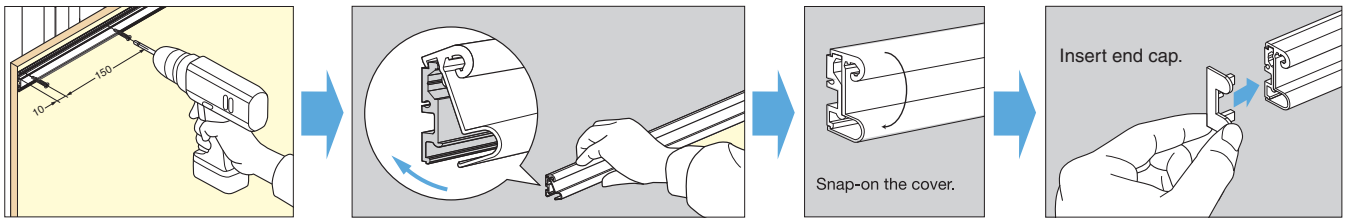




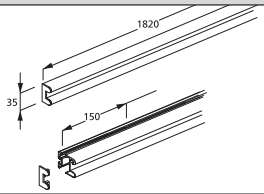
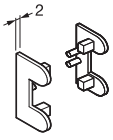
FLUQS ONE

FLUQS® 25

Installation



FLUQS® 25 Part Details

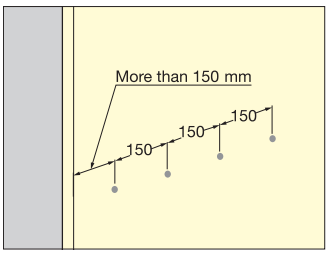
No.	Item Code	Item Name		Dimensions	Material/Finish	Length	Description
①	130-031-316	EX022-21	FLUQS 25		Aluminium / Anodized	1820 mm	●Single Aluminium Profile. ●Easy installation type ●End Cap 2 pcs included. ●Screw hole pitch 150 mm
②	130-031-889	EX025-31	End Cap for FLUQS 25		ABS / Grey	–	●Non-handed (2 pcs included).

Please see P.222 for accessories.

FLUQS® ONE

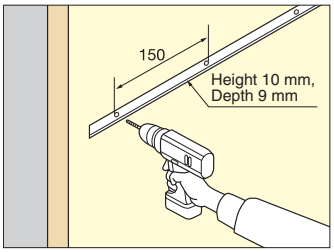
Installation

Surface Mount (Wood/Acrylic)

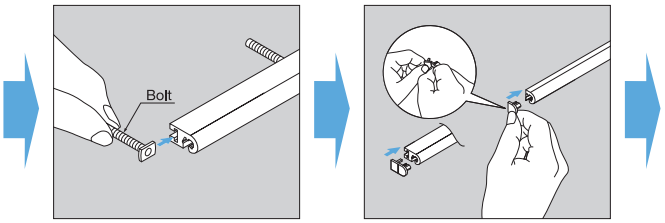


*Thickness:
Acrylic 10 mm, wood 20 mm
*Can not be used with hook.

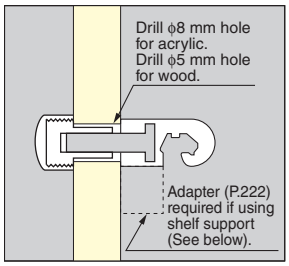
Recess Mount (Wood)



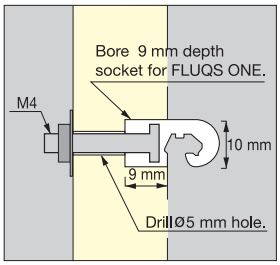
*Thickness:
Wood 24 mm

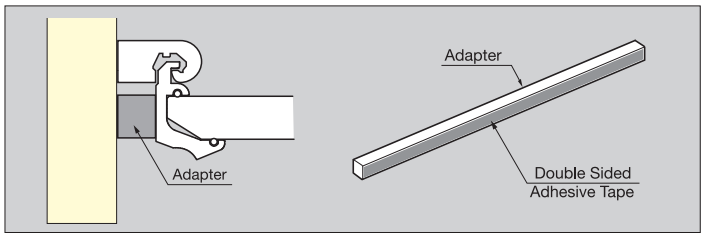


Surface Mount

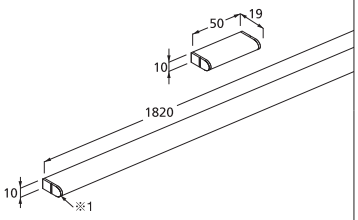
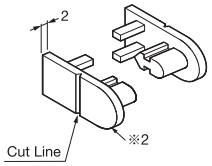
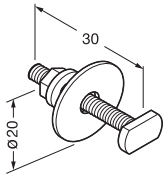
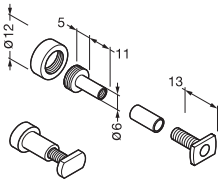


Recess Mount





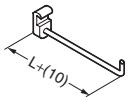
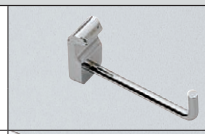
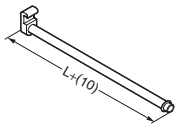
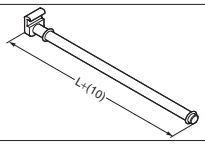
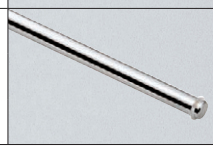
FLUQS® ONE Part Details

No.	Item Code	Item Name		Dimensions	Material/Finish	Length	Description
①	130-031-312	EX012-21	FLUQS ONE		Aluminium / Anodized	50 mm	●Single Aluminium Profile ●Simple and flexible layout design ●End Cap 2 pcs included ●For Recess Mount, cut the End Cap at the cut line and use the ※1 shape part. * Access behind the wall/panel is required to install.
	130-031-311	EX010-21				1820 mm	
②	130-031-313	EX018-45	End Cap for FLUQS ONE		Polypropylene / Plain	–	●For Recess Mount, cut the End Cap at the cut line and use the ※2 shape part. (2 pcs included)
③	130-031-314	EX019-25	FLUQS ONE Screw Set for Wood		Steel / Chromate	–	●Fastener to attach FLUQS ONE to Wood Panel (surface mount: Max. 20 mm / recessed mount: Max. 24 mm thick)
④	130-031-315	EX020-20	FLUQS ONE Screw Set for Acrylic Panel		Steel / Silver	–	●Fastener to attach FLUQS ONE to Acrylic Panel (10 mm thick)

Please see P.222 for accessories.

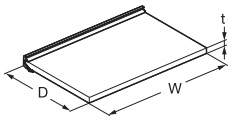
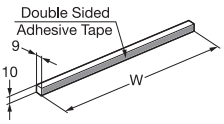
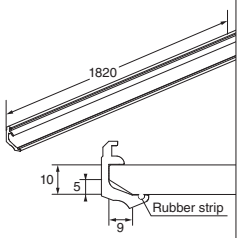
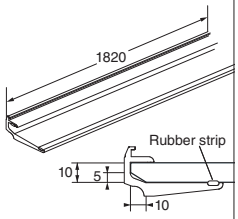
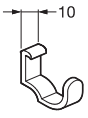
ACCESSORIES

Hook (For FLUQS 250/750/25/ONE Recess Mount)

No.	Item Code	Item Name		Dimensions	Material	Finish/Colour		Length	Load Capacity
①	130-031-321	EX030-20	Hook (φ3)		Steel	Chrome		15	1 kg
	130-031-323	EX031-20						30	
	130-031-325	EX032-20						55	
②	130-031-333	EX040-20	Hook (φ6)		Steel	Chrome		50	2 kg
	130-031-336	EX041-20						100	
	130-031-339	EX042-20						150	
③	130-031-342	EX046-20	Hook (φ9)		Steel	Chrome		100	3 kg
	130-031-345	EX047-20						150	
	130-031-348	EX048-20						200	

※Can not be used with surface mount FLUQS ONE.

Shelf (For FLUQS 250/750/25/ONE)

No.	Item Code	Item Name		Dimensions	Material	Finish/Colour	W	D	t	Description
①	130-031-369	EX201-41	Acrylic Shelf Set		Aluminium (Bracket) Acrylic (Shelf)	Anodized (Bracket) Light Green (Shelf)	300	150	10	Load Capacity: 2.4 kg
	130-031-370	EX202-41						200		
	130-031-371	EX203-41						250		
	130-031-373	EX206-41					450	150		Load Capacity: 3.6 kg
	130-031-374	EX207-41						200		
	130-031-375	EX208-41						250		
	130-031-377	EX211-41					600	150		Load Capacity: 4.8 kg
	130-031-378	EX212-41						200		
	130-031-379	EX213-41						250		
②	130-031-372	EX204-41	Adapter		Acrylic	–	300	–	–	For Shelf Holder when used with FLUQS ONE surface mount profile and bracket. (with double sided adhesive tape)
	130-031-376	EX209-41					450			
	130-031-380	EX214-41					600			
③	130-031-318	EX026-21	Shelf Holder		Aluminium	Anodized	1820	10	9	*For 10 mm glass *Maximum shelf depth: 250 mm *For permanent installation, apply caulk to bracket and glass/acrylic *2 rubber strips (clear, 1820 mm) included *Glass not included, chamfer required as shown Load Capacity: 14.4 kg
④	130-031-319	EX027-21	Shelf Holder		Aluminium	Anodized	1820	–	–	*For 10 mm glass *Maximum shelf depth: 450 mm *For permanent installation, apply caulk to bracket and glass/acrylic *2 clear rubber strips (1820 mm) included *Glass not included, chamfer required as shown Load Capacity: 30 kg
⑤	130-031-368	EX090-21	Mini Hook		Aluminium	Anodized	10	–	–	Load Capacity: 3 kg

CATCHES
LATCHES

SUGATSUNE

PUSH KNOB LATCHES

Picture	Item Name	Retaining Force (kgf)	Page
	ZL-2901 STAINLESS 316 STEEL	10	226
	DPL	10	227
	PKL05	10	228
	PKL07	10	228
	PKL-08	10	229
	TLP	20	230
	TLP-S	20	231
	TLP 3 POINT	—	232
	SL-B211, SL-B251	16	234
	SL-G25, SL-GB25	16	235
	AK-60	20	236

MAGNETIC TOUCH LATCHES

Picture	Item Name	Magnetic Force (kgf)	Page
	ML-30S	1.2	237
	ML-30W	1.2	237
	ML-80	1.6	238
	ML-120	2.4	238
	MC-25	0.5	239
	MC-S60	1.1	239
	MC-U60	1.1	240
	PM-4N HB	1.3	240

NON-MAGNETIC TOUCH LATCHES

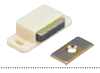
Picture	Item Name	Retaining Force (kgf)	Page
	MLC-100WT	6	242
	MLC-HT130BL	12	242
	MC-28	3	243
	MC-37F	8	243

Picture	Item Name	Retaining Force (kgf)	Page
	PR-21P	—	244
	PR-20P	—	244
	NS2	—	244
	MC-20	4	245
	PR-4PK	1.2	245
	ESN-195/BLK	3.5	245

KNUCKLE CATCHES / TENSION CATCHES

Picture	Item Name	Push-in / Pulling Force (kgf)	Page
	RC6900, RC6901	1.1～2.2/ 1.6～3.2	246
	JC-24, JC-26	2.2～3.1/ 1.7～2.7	246
	NAC	5.7/7.1	246
	RCU	3.0/3.2	247
	JCU	2.0/2.3	247
	JCU-F	2.0/2.0	247
	JC-T50	3.3/3.8	248
	C882	—	248
	TS	—	249
	DER	—	249
	BCT	4.1～4.6/ 3.0～3.5	250
	BCTS STAINLESS 316 STEEL	2～5.7/ 1.3～3.9	250
	BCU	3.6～4.1/ 2.4～3.9	251
	BCT-60W	3.2/2.7	251
	S-1080 (STBRC) STAINLESS 304 STEEL	1.0/2.7	251

MAGNETIC CATCHES

Picture	Item Name	Magnetic Force (kgf)	Page
	MC-FM20S	1	252
	MC0097	1.5～3.5	252
	MC-YS	1.2～3	252
	MC84	3	253
	MC-7004	2	253
	MC-FM20W	1	254
	MC-E	2～2.4	254
	MC-K	2.4～2.8	254
	MC-EA	2	255
	MC-SP	4.8～5.6	255
	MC-H	2.4～2.8	256
	TC-42	3.5	256
	MS	2.4～4	257
	MC-125	2.5	257
	MC-SS30	3	257
	MC-FS	1.5～7	258
	MC-FS, MC-FP5, MC-FB10	1.3～5.6	258
	MC-YSW	1.2～3	259
	MC-FP5S	4.5	259
	MC-JMF54	2.6	260
	MC-IS	1.0～2.5	260
	MC-IS4F	2.5	260
	MC-YN001, YN001P	2.7	261
	MC-YN015S, YN015SP STAINLESS 304 STEEL	2.3	261
	MC-158	1.5	262
	MC-159	4	262
	MC-159-8	8	263

Picture	Item Name	Magnetic Force (kgf)	Page
	MC-159-SUS STAINLESS 430 STEEL	5	263
	MC-YN003	1.7	264
	MC-YC-06	4.5	264
	MC-YN005 STAINLESS 430 STEEL	3～6	265
	MC-YN005HP STAINLESS 430 STEEL	2～5.1	265
	MC0083	7	266
	MC0083-N	14	266
	MC0083HP STAINLESS 430 STEEL	7.1～14.3	267
	MC0083D	10	267
	MC-S88	1.5	268
	MC-SM10	2	268
	MC-S78	0.8	268
	MC0099	1.1～5.2	269
	MC-110NF	8	269
	MC-JM63G	1.5～5	269
	MC-JM45	3	270
	MC-JMS45WT	3	270
	MC-MS50	4	271
	MC-JM50	3	271
	NMS	0.39～0.55	272
	XL-GC09-CR FOR GLASS DOORS	1.5	274

COUNTER PLATES

Picture	Item Name		Magnetic Force (kgf)	Page
	K-150	FOR GLASS DOORS	—	241
	K-110	FOR GLASS DOORS	—	241
	K-130	FOR GLASS DOORS	—	241
	MC-JMP45		—	272
	MC-JM49	STAINLESS 304 STEEL	—	273
	AS-68	STAINLESS 430 STEEL	—	273
	W		—	273
	Z4		—	273
	SP0207		—	273
	MC-YN001U		—	273

DRAW LATCHES

Picture	Item Name		Load Capacity (kgf)	Page
	SCC-TF30	STAINLESS 304 STEEL	51	275
	SCC-25	STAINLESS 304 STEEL	—	275
	SCC-30	STAINLESS 304 STEEL	—	276
	SCC-40	STAINLESS 304 STEEL	—	276
	SCC-60	STAINLESS 304 STEEL	—	276
	SCCA-40		—	277
	SCCA-60		—	277
	STF-A56	STAINLESS 304 STEEL	—	278
	STF-C64	STAINLESS 304 STEEL	—	278
	STF-CP140	STAINLESS 304 STEEL	61	279
	STF40	STAINLESS 304 STEEL	—	280
	STF80	STAINLESS 304 STEEL	80	280
	STF82L	STAINLESS 304 STEEL	80	281
	STF100	STAINLESS 304 STEEL	80	281
	PN-51	STAINLESS 304 STEEL	70	282

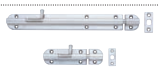
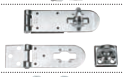
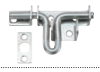
FLUSH SLAM LATCHES

Picture	Item Name	Load Capacity (kgf)	Page
	LJ-61	—	282
	LC-48	—	283
	LC-65A	—	283

LEVER LATCHES

Picture	Item Name		Retaining Force (kgf)	Page
	LL-66S	STAINLESS 316 STEEL	20	284
	LL-66		20	284

SLIDE / BARREL BOLTS

Picture	Item Name	Door thickness (mm)	Page
	BL STAINLESS 304 STEEL	—	285
	BL-S STAINLESS 304 STEEL	—	285
	BLS STAINLESS 304 STEEL	—	286
	BS STAINLESS 304 STEEL	—	286
	BSS STAINLESS 304 STEEL	—	287
	BSS2, BSS3 STAINLESS 304 STEEL	—	287
	HP-AK STAINLESS 304 STEEL	—	288
	HP STAINLESS 304 STEEL	—	288
	HP-635S, 645S, 660S STAINLESS 316 STEEL	—	288
	BLL STAINLESS 304 STEEL	—	289
	BLT STAINLESS 304 STEEL	—	289
	SSL STAINLESS 304 STEEL	—	289
	SSG STAINLESS 304 STEEL	—	290
	S-550 STAINLESS 304 STEEL	—	290
	KR-50 STAINLESS 304 STEEL	—	291
	FL2 STAINLESS 304 STEEL	—	292
	FL4 STAINLESS 304 STEEL	—	292
	HR35 STAINLESS 304 STEEL	—	293
	ZL-2401 FOR GLASS DOORS STAINLESS 316 STEEL	8,10,12 (glass)/ 28～40 (wood)	303
	ET-70FN STAINLESS 304 STEEL	13,16,20	305
	ET-70DS STAINLESS 304 STEEL	13,16	305
	ET-70DN STAINLESS 304 STEEL	13,16	306

SLIDING DOOR LATCHES

Picture	Item Name	Door thickness (mm)	Page
	HC-30R STAINLESS 304 STEEL	28～52	293
	HC-30 STAINLESS 304 STEEL	28～40	294
	HC-30H STAINLESS 304 STEEL	28～40	294
	HC-30L STAINLESS 304 STEEL	28～40	295
	HC-30HL STAINLESS 304 STEEL	28～40	295
	HC-70 STAINLESS 304 STEEL	—	296
	HC-70H STAINLESS 304 STEEL	26～40	296
	HHC-85 STAINLESS 304 STEEL	26～38	297
	HC-85SS STAINLESS 304 STEEL	—	297
	HC-65 STAINLESS 304 STEEL	—	298
	SB, SBU	36～40	298
	SC, SCU	36～40	298
	HC-3051	35～45	300
	XL-MT120-H FOR GLASS DOORS STAINLESS 304 STEEL	8, 13	304
	XL-MT120-U FOR GLASS DOORS STAINLESS 304 STEEL	8, 13	304
	ET-125T STAINLESS 304 STEEL	13	306



PUSH KNOB LATCH

TEST METHOD 11 | L=R | STAINLESS 316 STEEL | STAINLESS

ZL-2901



■Features

- Superior finish of Mirror/Satin
- Safe and smart design: door will be locked when knob is pushed in.
- Can be used for overlay and inset door (Door thickness: 13-23 mm).
- Latch and knob are sold as a set.

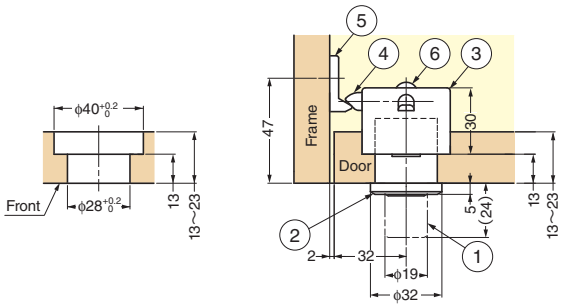
■Parts Included

Round head wood screw 3.1×10, 3.1×28 (SUS)

■Knob (Pushed in)



■Cut Out Dimensions



No.	Part Name	Material	Finish/Colour
①	Push Knob	Stainless Steel (SUS316)	Zwei L Finish
②	Latch Body	Stainless Steel (SUS316)	Zwei L Finish
③	Latch Body	ABS	Black
④	Latch	Polyacetal (POM)	Black
⑤	Counter Plate	ABS	Black
⑥	Truss Head Tapping Screw M3×25	Stainless Steel	–

Item Code	Item Name	Retaining Force N	Retaining Force kgf	Weight	Box
140-050-403	ZL-2901	98 N	10 kgf	100 g	1 pc

PUSH KNOB LATCH

TEST METHOD 11 L=R STAINLESS **DPL**



■Features

- Safe and smart design: door will be locked when knob is pushed in.
- Can be used for overlay and inset door (Door thickness: 15-25 mm).
- Door stopper is not needed.
- Latch and knob are sold as a set.

■Parts Included

- Binding head tapping screw 4×20 (SUS)
- Pan head tapping screw 3×14 (SUS)

■Push Knob and Surface Ring


DPL-RO-G


DPL-RO-CR

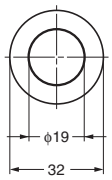

DPL-OV-G

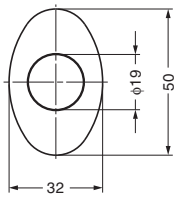

DPL-OV-CR

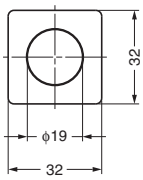

DPL-SQ-G


DPL-SQ-CR


DPL-SQ-SN



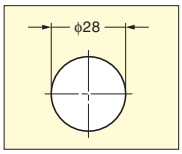


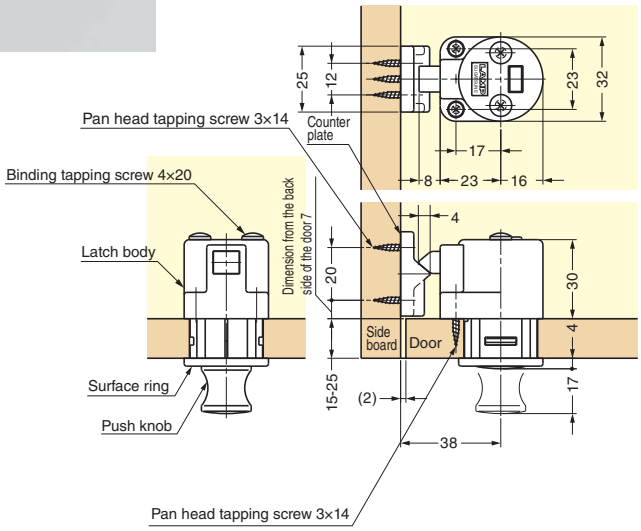


■Latch Body and Counter Plate



■Cut Out Dimensions





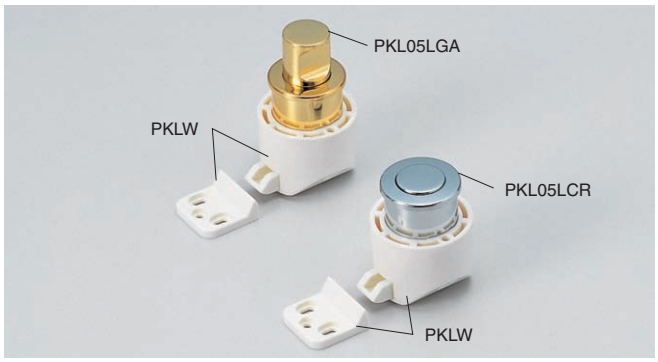
Part Name	Material
Latch Body・Counter Plate	ABS
Push Knob・Surface Ring	Zinc Alloy (ZDC)

Item Code	Item Name	Finish	Retaining Force N	Retaining Force kgf	Weight	Box	Carton
140-014-739	DPL-RO-G	Gold (Clear/Paint)	98 N	10 kgf	72 g	10 pcs	80 pcs
140-014-740	DPL-RO-CR	Chrome	98 N	10 kgf	72 g	10 pcs	80 pcs
140-014-734	DPL-OV-G	Gold (Clear/Paint)	98 N	10 kgf	83 g	10 pcs	80 pcs
140-014-735	DPL-OV-CR	Chrome	98 N	10 kgf	83 g	10 pcs	80 pcs
140-014-737	DPL-SQ-G	Gold (Clear/Paint)	98 N	10 kgf	78 g	10 pcs	80 pcs
140-014-738	DPL-SQ-CR	Chrome	98 N	10 kgf	78 g	10 pcs	80 pcs
140-014-736	DPL-SQ-SN	Satin Nickel	98 N	10 kgf	78 g	10 pcs	80 pcs

PUSH KNOB LATCH

TEST METHOD 11 | STAINLESS

PKL05



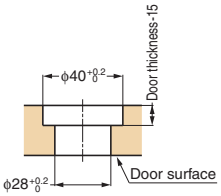
■Features

- Safe and smart design: door will be locked when knob is pushed in.
- Can be used for overlay and inset door (Door thickness: 15-25 mm).

■Parts Included

Round head wood screw 3.1×10, 3.1×28 (SUS)

■Cut Out Dimensions



■Push Knob



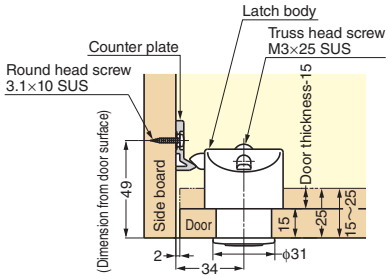
GA



CR

■Latch Body and Counter Plate





※Right-handed shown.

■Push Knob

Item Code	Item Name	Type	Finish/Colour	Weight	Box	Carton
140-015-031	PKL05RGA	Right	Gold	68 g	20 pcs	200 pcs
140-015-030	PKL05RCR	Right	Chrome	68 g	20 pcs	200 pcs
140-015-028	PKL05LGA	Left	Gold	68 g	20 pcs	200 pcs
140-015-027	PKL05LCR	Left	Chrome	68 g	20 pcs	200 pcs

■Latch Body・Counter Plate

Item Code	Item Name	Colour	Retaining Force N	Retaining Force kgf	Weight	Box	Carton
140-012-822	PKLW	White	98 N	10 kgf	29 g	20 pcs	200 pcs

Part Name	Material
Push Knob	ABS
Latch Body	ABS/Polyacetal (POM)
Counter Plate	ABS

PUSH KNOB LATCH

TEST METHOD 11 | L=R | STAINLESS

PKL07



■Features

- Safe and smart design: door will be locked when knob is pushed in.
- Can be used for overlay and inset door (Door thickness: 15-30 mm).

■Parts Included

Round head wood screw 3.1×10, 3.1×28 (SUS)

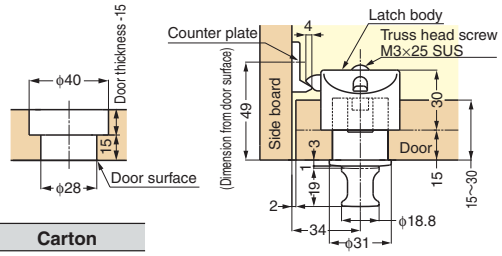
■Push Knob



■Latch Body and Counter Plate



■Cut Out Dimensions



■Push Knob

Item Code	Item Name	Colour	Weight	Box	Carton
140-012-819	PKL-07SW	White	33 g	20 pcs	200 pcs

■Latch Body・Counter Plate

Item Code	Item Name	Colour	Retaining Force N	Retaining Force kgf	Weight	Box	Carton
140-012-820	PKLSW	White	98 N	10 kgf	29 g	20 pcs	200 pcs

Part Name	Material
Push Knob	ABS
Latch Body	ABS/Polyacetal (POM)
Counter Plate	ABS

PUSH KNOB LATCH

TEST METHOD 11 | L=R | STAINLESS

PKL-08



■Features

- Safe and smart design: door will be locked when knob is pushed in.
- Can be used for overlay and inset door
  (Door thickness: 15-30 mm. For thin door, please use a plastic spacer, sold separately).

■Parts Included

- Truss head screw M3×25 (SUS)
- Round head wood screw 3.1×10, 3.1×28 (SUS)

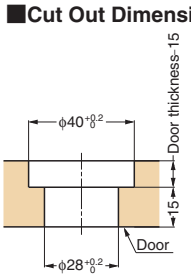
■Option

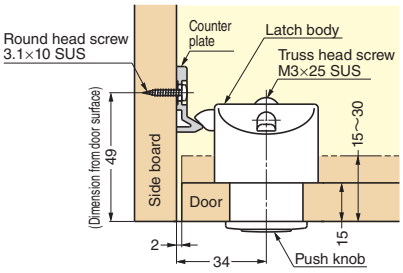
Spacer (below)

■Latch Body and Counter Plate

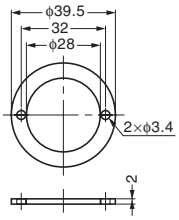


■Cut Out Dimensions





Spacer (option)



■Application Example



Part Name	Material
Push Knob	Zinc Alloy (ZDC)
Latch Body・Counter Plate	ABS
Spacer (Option)	ABS

■Push Knob

Item Code	Item Name	Finish	Weight	Box	Carton
140-019-792	PKL-08/GA	Gold	63 g	20 pcs	200 pcs
140-019-794	PKL-08/CR	Chrome	63 g	20 pcs	200 pcs
140-019-793	PKL-08/BN	Black Nickel	63 g	20 pcs	200 pcs

■Latch Body・Counter Plate

Item Code	Item Name	Colour	Retaining Force N	Retaining Force kgf	Weight	Box	Carton
140-012-822	PKLW	White	98 N	10 kgf	30 g	20 pcs	200 pcs
140-012-820	PKLSW	Snow White	98 N	10 kgf	30 g	20 pcs	200 pcs
140-012-821	PKLB	Black	98 N	10 kgf	30 g	20 pcs	200 pcs

■Spacer (Option)

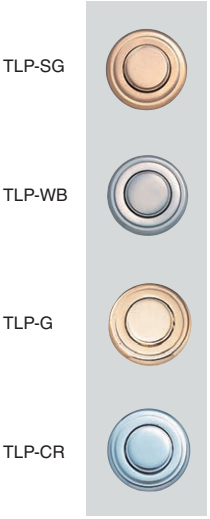
Item Code	Item Name	Colour	Weight	Carton
140-019-255	PKL-Spacer/WHT	White	2 g	2,000 pcs
140-019-256	PKL-Spacer/BLK	Black	2 g	2,000 pcs

PUSH KNOB LATCH

TEST METHOD 11 L=R STAINLESS **TLP**



Brown is also available as special order.



■Features

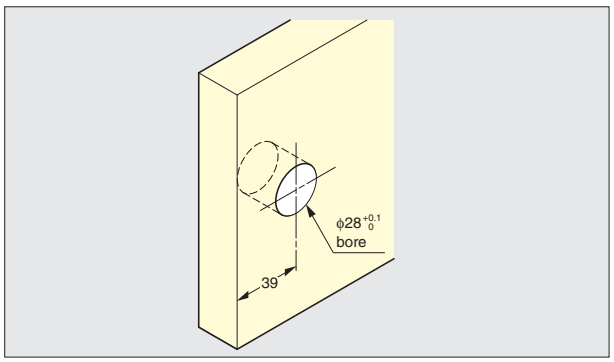
- Safe and smart design: door will be locked when knob is pushed in. Keeps the door closed due to the spring loaded latch.
- Flexible to suit door thickness by adjusting screw.
- Can be used for overlay and inset door (Door thickness: 19-30 mm).

TLP 3 POINT (P.232～ 233) is suitable for tall cabinet door.

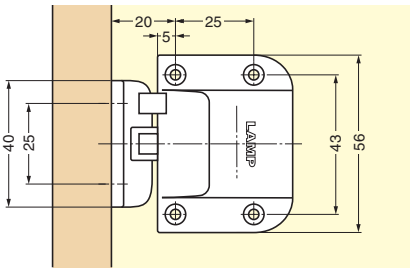
■Parts Included

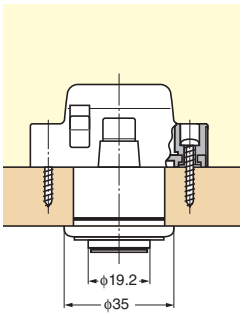
- Screw to install latch body: Pan-head tapping screw 3×20 (SUS)
- Screw to install counter plate: Pan-head tapping screw 3×16 (SUS)
- Screw to adjust door thickness: M4x24, M4x30

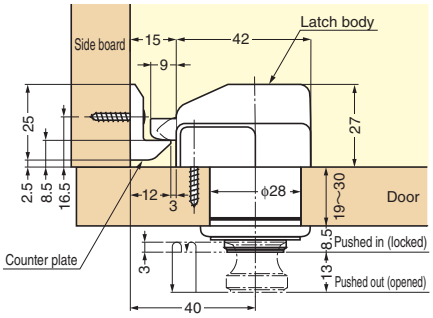
■Bore Dimensions (Door)



Dimension above is for inset door.

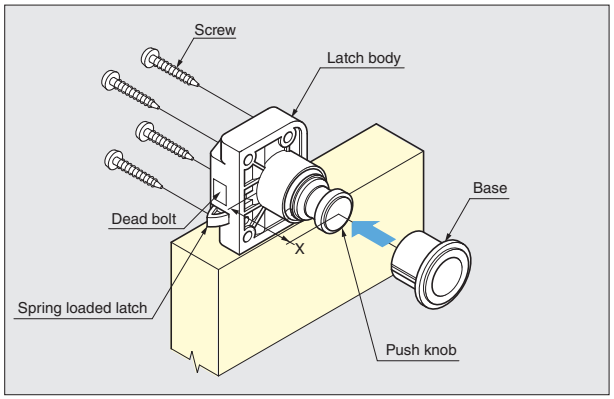






Installation for overlay door

■Parts Structure



Part Name	Material
Push Knob	Brass
Base	Zinc Alloy (ZDC)
Latch Body	Polyamide (PA)

■X Dimension

Screw Length	Door Thickness	X
24	19	40.5
	20	41.5
	21	42.5
	22	43.5
	23	44.5
	24	45.5
30	25	46.5
	26	47.5
	27	48.5
	28	49.5
	29	50.5
	30	51.5

■Push Knob・Base

Item Code	Item Name	Finish	Weight	Box	Carton
140-060-113	TLP-SG	Satin Gold	77 g	25 pcs	200 pcs
140-064-431	TLP-WB	Satin Nickel	77 g	25 pcs	200 pcs
140-064-433	TLP-G	Gold	77 g	25 pcs	200 pcs
140-064-432	TLP-CR	Chrome	77 g	25 pcs	200 pcs

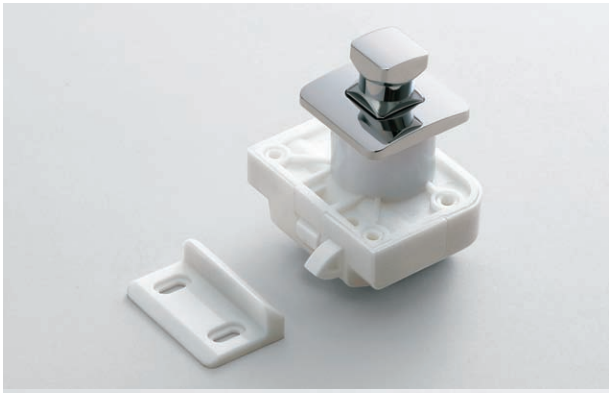
■Latch Body・Counter Plate

Item Code	Item Name	Colour	Retaining Force		Weight	Box	Carton
140-064-430	TLP-LBM W	White	196 N	20 kgf	47 g	10 pcs	100 pcs

PUSH KNOB LATCH

TEST METHOD 11 | L=R | STAINLESS

TLP-S





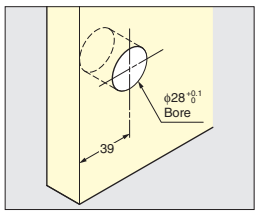
■Features

- Safe and smart design: door will be locked when knob is pushed in.
- Flexible to suit door thickness by adjusting screw.
- Spring loaded latch keeps the door closed.
- Can be used for overlay and inset door (Door thickness: 19-30 mm).

■Parts Included

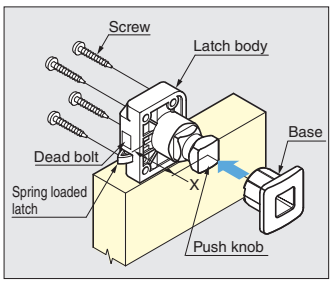
- Screw to install latch body: Pan-head tapping screw 3×20 (SUS)
- Screw to install counter plate: Pan-head tapping screw 3×16 (SUS)
- Screw to adjust door thickness: M4×24, M4×30

■Bore Dimensions (Door)



Dimension above is for inset door.

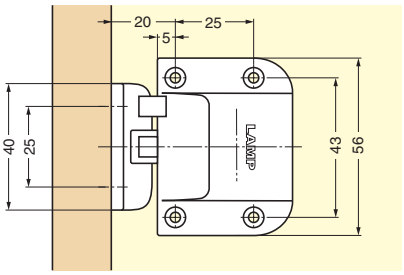
■Parts Structure



■Latch Body and Counter Plate



Brown is also available as special order.



■Push Knob and Base



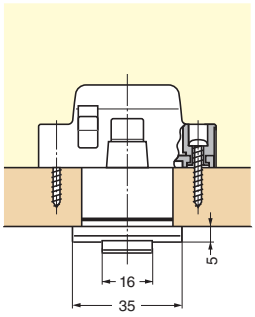
TLP-S-BB-WB

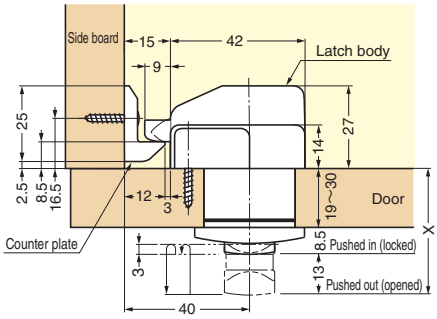


TLP-S-BB-G



TLP-S-BB-CR





■X Dimension

Screw Length	Door Thickness	X
24	19	40.5
	20	41.5
	21	42.5
	22	43.5
	23	44.5
	24	45.5

Screw Length	Door Thickness	X
30	25	46.5
	26	47.5
	27	48.5
	28	49.5
	29	50.5
	30	51.5

Part Name	Material
Push Knob	Brass
Base	Zinc Alloy (ZDC)
Latch Body	Polyamide (PA)

■Push Knob・Base

Item Code	Item Name	Finish	Weight	Box	Carton
140-014-264	TLP-S-BB-WB	Satin Nickel	84 g	30 pcs	150 pcs
140-014-265	TLP-S-BB-G	Gold	84 g	30 pcs	150 pcs
140-012-390	TLP-S-BB-CR	Chrome	84 g	30 pcs	150 pcs

■Latch Body・Counter Plate

Item Code	Item Name	Colour	Retaining Force N	Retaining Force kgf	Weight	Box	Carton
140-064-430	TLP-LBM W	White	196 N	20 kgf	47 g	10 pcs	100 pcs

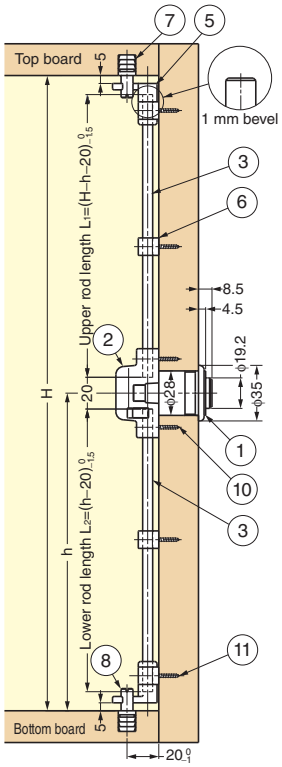
PUSH KNOB BAR LATCH

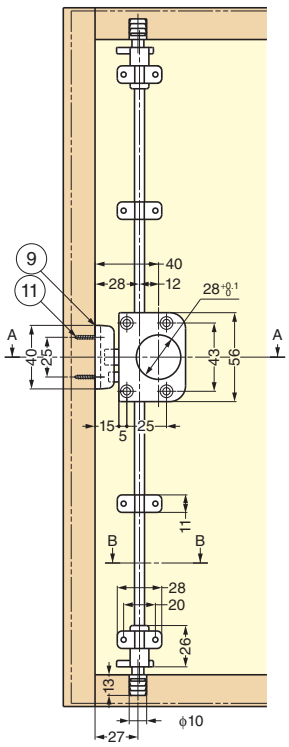
L=R STEEL **TLP 3 POINT**



■Features

- Suitable for tall cabinet door.
- Centre latch with dead bolt, top and bottom cams.
- Door will be locked when knob is pushed in.
- Applicable from 19 mm to 30 mm door thickness.
- Able to install for both inset and overlay door.
- Non-handed.

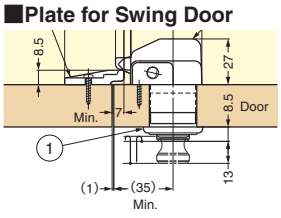


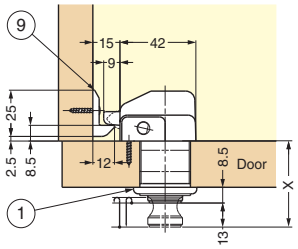


■Push Knob



■Plate for Swing Door

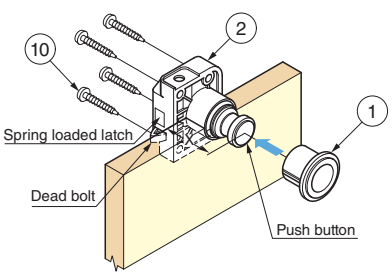


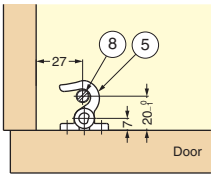


A-A cross section

■X Dimension

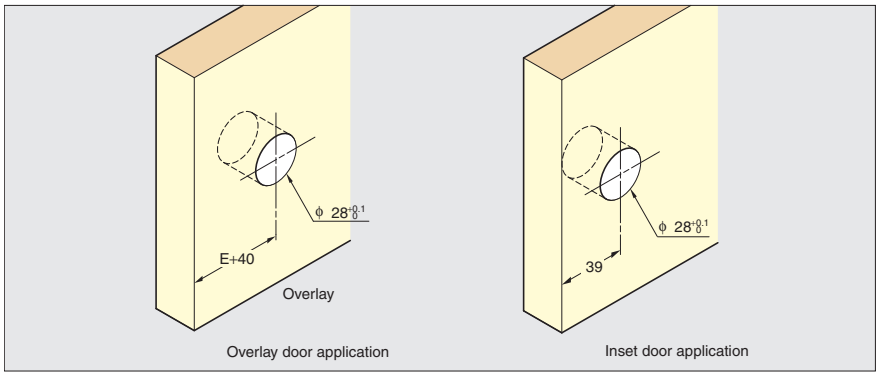
Screw Length	Door Thickness	X
ℓ=24	19	40.5
ℓ=24	20	41.5
ℓ=24	21	42.5
ℓ=24	22	43.5
ℓ=24	23	44.5
ℓ=24	24	45.5
ℓ=30	25	46.5
ℓ=30	26	47.5
ℓ=30	27	48.5
ℓ=30	28	49.5
ℓ=30	29	50.5
ℓ=30	30	51.5



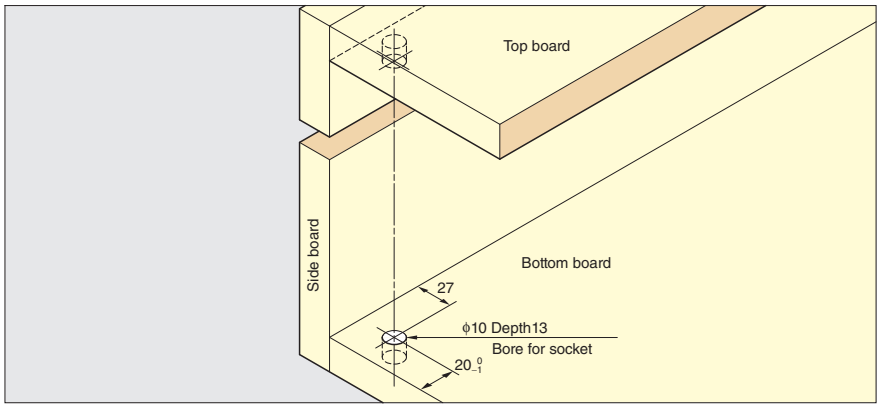


B-B cross section

■Bore Dimension (Door)



■Bore Dimension (Cabinet)



■Parts Details

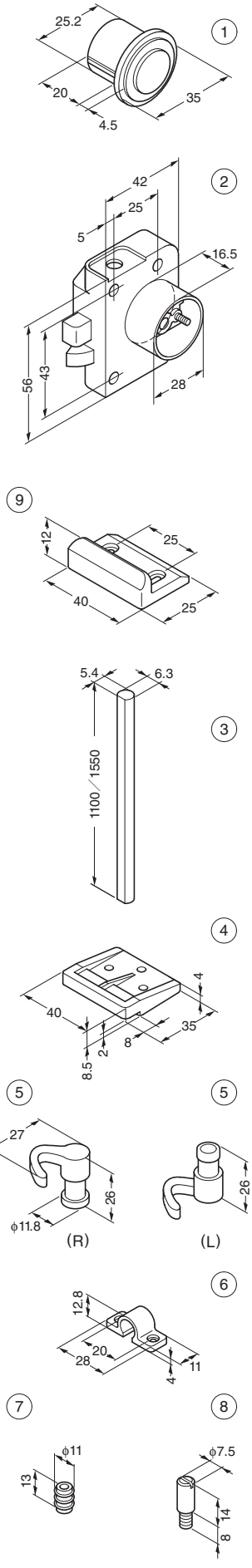
Item Code	Item Name	No.	Name	Door Thickness	Material	Finish/ Colour	Needed Qty	Box	Carton
140-060-113	TLP-SG	①	Push Button	19～30	Zinc Alloy (ZDC)/ Brass	Satin Gold	1 pc	25 pcs	200 pcs
140-064-431	TLP-WB	①	Push Button	19～30	Zinc Alloy (ZDC)/ Brass	Satin Nickel		25 pcs	200 pcs
140-064-433	TLP-G	①	Push Button	19～30	Zinc Alloy (ZDC)/ Brass	Gold		25 pcs	200 pcs
140-064-432	TLP-CR	①	Push Button	19～30	Zinc Alloy (ZDC)/ Brass	Chrome		25 pcs	200 pcs
150-060-240	TLP-W	②	Latch Body	–	Polyamide (PA)	White	1 pc	10 pcs	100 pcs
150-060-231	TLF-1100	③	Prop (Length: 1100)	–	Steel	Nickel	2 pcs	–	50 pcs
150-060-232	TLF-1550	③	Prop (Length: 1550)	–	Steel	Nickel		–	50 pcs
150-060-235	TLF-ST03W	④	Counter Plate for Double Swing Door	–	Polyamide (PA)	White	1 pc	–	–
150-060-271	TLPP-W	⑤～⑧, ⑪	Parts Set (White)	–	As below	As below	1 set	25 sets	250 sets
150-060-270	TLPP-BR	⑤～⑧, ⑪	Parts Set (Brown)	–	As below	As below		25 sets	250 sets

Parts Included in ②

No.	Part Name	Qty	Material	Finish/Colour
⑨	Counter Plate	1 pc	Polyamide (PA)	White
⑩	Pan Head Tapping Screw 3×20	4 pcs	Steel	Yellow Zinc Chromate
⑪	Pan Head Tapping Screw 3×16	2 pcs	Steel	Yellow Zinc Chromate

Details of ⑤～⑧, ⑪

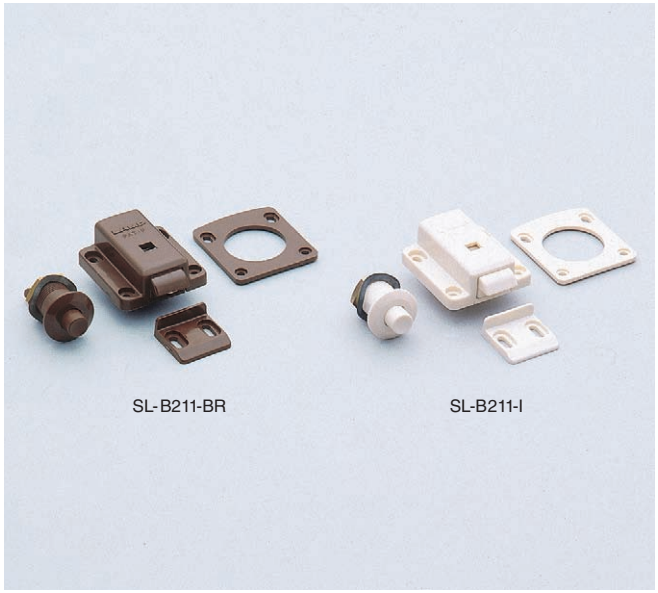
No.	Part Name	Qty	Material	Finish/Colour
⑤	Hook	Left and Right each 1 pc	Polyacetal (POM)	White/Brown
⑥	Holder	4 pcs	Polyamide (PA)	White/Brown
⑦	Socket M6	2 pcs	Polyamide (PA)	White/Brown
⑧	Striker (M6 Screw)	2 pcs	Steel	Nickel
⑪	Pan Head Screw 3×16	8 pcs	Steel	Yellow Zinc Chromate



PUSH KNOB LATCH

TEST METHOD 11 | STEEL

SL-B211, SL-B251

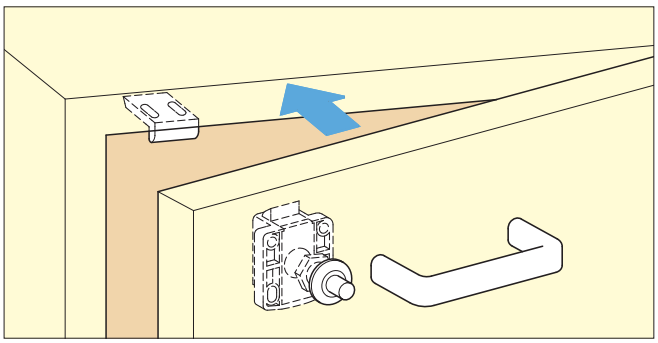


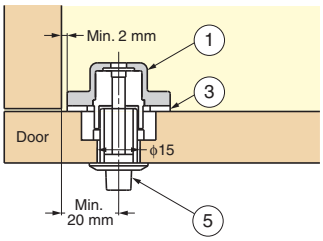
■Features

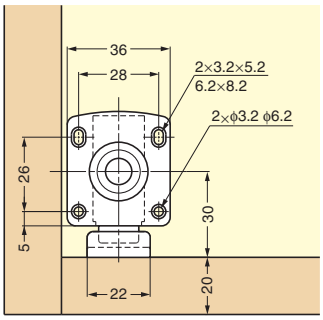
- Pull the handle while pushing the button to open door.
- Spacer, for door thickness 18-21 mm (SL-B211) and 22-25 mm (SL-B251) included.

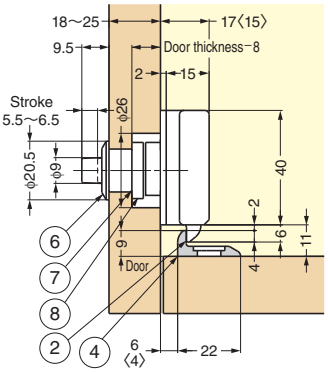
■Parts Included

Pan head tapping screw 3×14



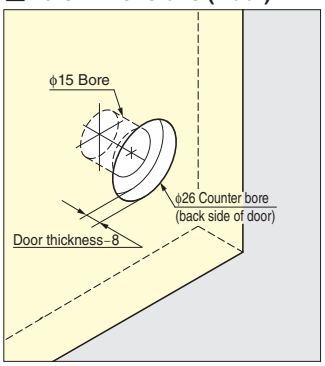




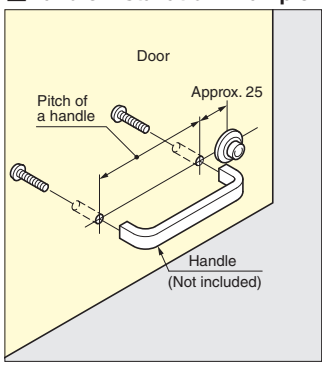


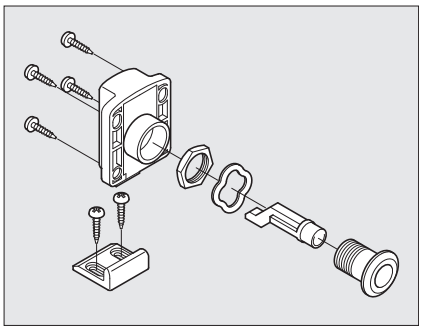
* 〈 〉 = Without spacer.

■Bore Dimensions (Door)



■Handle Installation Example





No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Ivory, Brown
②	Latch	Polyamide (PA)	Ivory, Brown
③	Spacer	Polyamide (PA)	Ivory, Brown
④	Counter Plate	Polyacetal (POM)	Ivory, Brown
⑤	Push Button	Polyacetal (POM)	Ivory, Brown
⑥	Base	Polyamide (PA)	Ivory, Brown
⑦	Washer (ϕ14)	Spring Steel	—
⑧	Nut (M14)	Steel	Yellow Zinc Chromate

Item Code	Item Name	Colour	Door Thickness	Spacer	Retaining Force N	Retaining Force kgf	Weight	Box	Carton
140-060-010	SL-B211-I	Ivory	18, 19	Necessary	156.8 N	16 kgf	23.5 g	20 pcs	200 pcs
			20, 21	Unnecessary					
140-060-011	SL-B211-BR	Brown	18, 19	Necessary	156.8 N	16 kgf	23.5 g	20 pcs	200 pcs
			20, 21	Unnecessary					
140-060-016	SL-B251-I	Ivory	22, 23	Necessary	156.8 N	16 kgf	23.5 g	20 pcs	200 pcs
			24, 25	Unnecessary					
140-060-017	SL-B251-BR	Brown	22, 23	Necessary	156.8 N	16 kgf	23.5 g	20 pcs	200 pcs
			24, 25	Unnecessary					

PUSH KNOB LATCH

TEST METHOD 11 | STEEL

SL-G25, SL-GB25

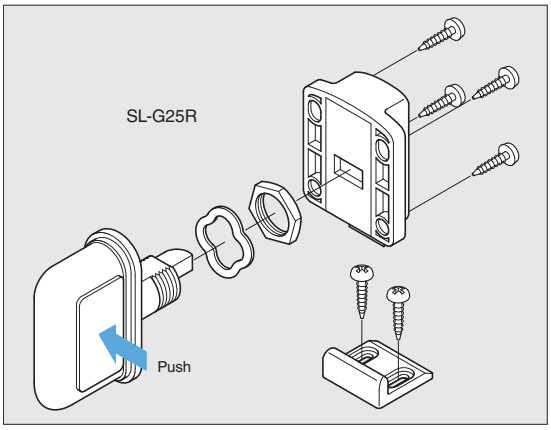


■Features

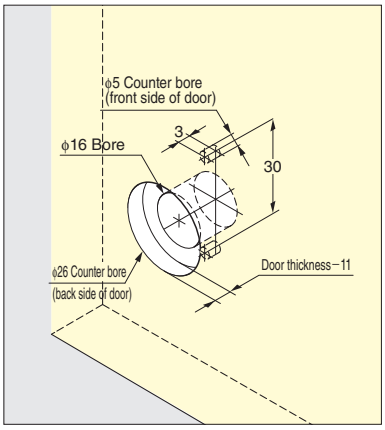
- Knob and slide latch are combined in one unit.
- Wide push button on knob allows easy operation.
- Door thickness: 18-25 mm.

■Parts Included

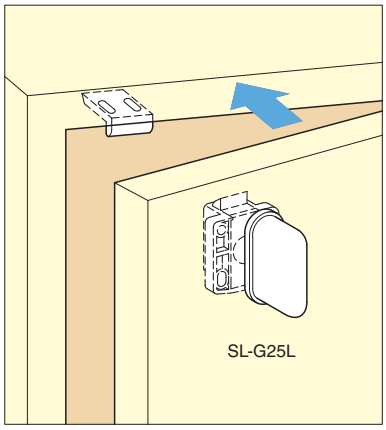
Pan head tapping screw 3×14

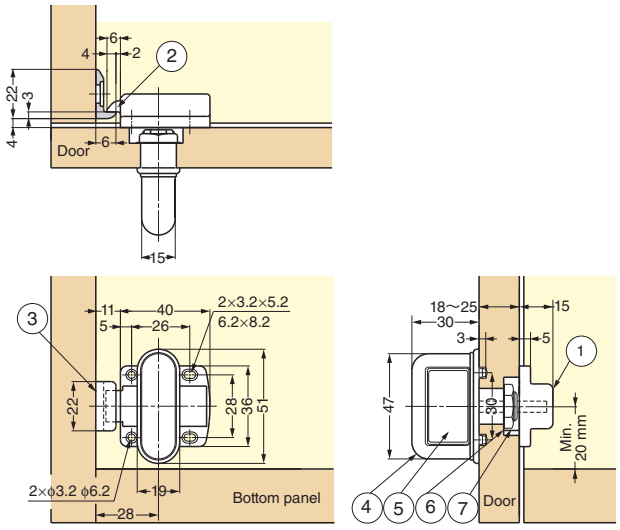


■Bore Dimensions (Door)

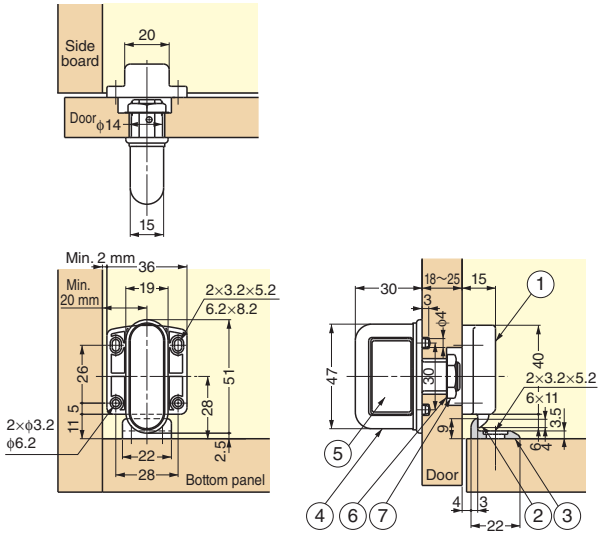


■Application Example





Dimension above: SL-GB25



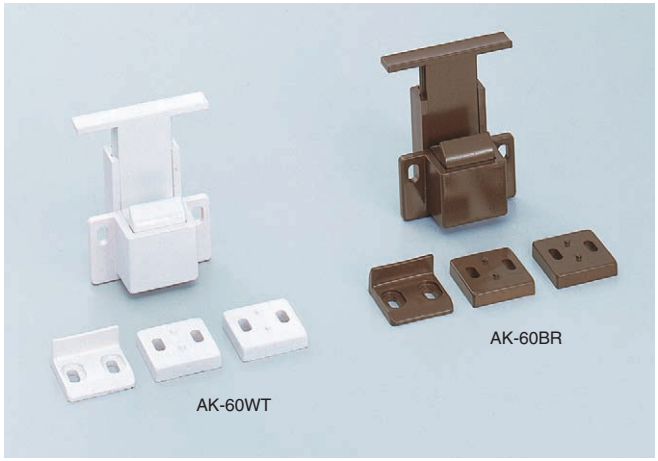
Dimension above: SL-G25R

Item Code	Item Name	Colour	Retaining Force N	Retaining Force kgf	Weight	Box	Carton
140-060-030	SL-G25L-I	Ivory	156.8 N	16 kgf	32.5 g	20 pcs	200 pcs
140-060-022	SL-G25R-I	Ivory	156.8 N	16 kgf	32.5 g	20 pcs	200 pcs
140-060-038	SL-GB25-I	Ivory	156.8 N	16 kgf	32.5 g	20 pcs	200 pcs

No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Ivory
②	Latch	Polyamide (PA)	Ivory
③	Counter Plate	Polyacetal (POM)	Ivory
④	Knob	ABS	Ivory
⑤	Lever	Polyacetal (POM)	Ivory
⑥	Washer (ϕ14)	Spring Steel	–
⑦	Nut (M14)	Steel	Yellow Zinc Chromate

PUSH KNOB LATCH

TEST METHOD 11 STAINLESS **AK-60**



■Features

- Prevents unexpected open.
- Easy operation, just pull the lever to open and automatically latched when closing.
- Can be installed both on top board and bottom board.

■Recommended Application

Door thickness: Min. 18 mm

Door size: H: max. 700 mm × W max. 500 mm

Thickness of top board or bottom board: 25 mm

(use spacer in case 20 mm or 15 mm)

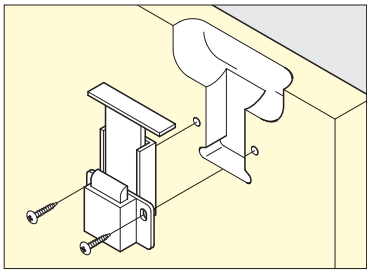
* 25 mm-thick board: screw for mounting counter plates = 3.5×15
* 20 mm or 15 mm-thick board: screw for mounting counter plates = 3.5×20

■Parts Included

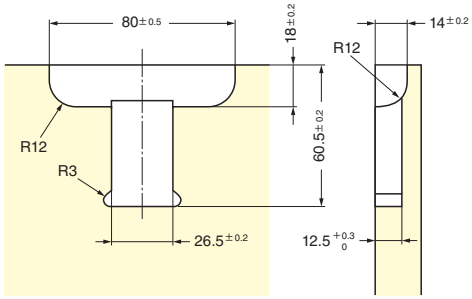
Binding head tapping screw 3.5×15, 3.5×20, 4.0×15 (SUS)

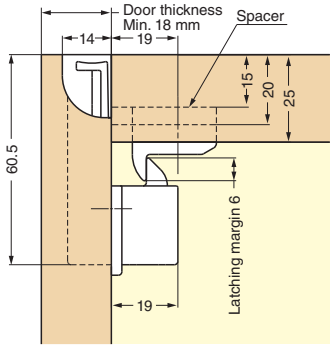
■Sold Separately

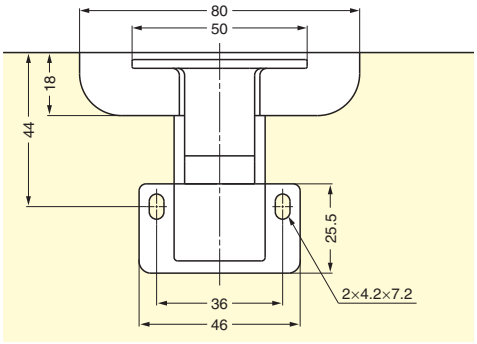
Cover for the cut end of board: AK-C60 (below)



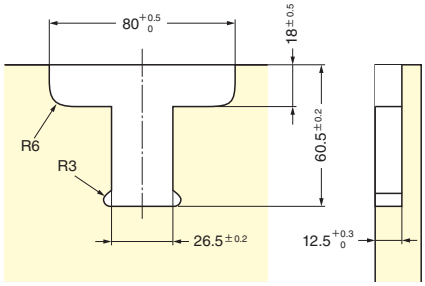
■Bore Dimensions (Door)

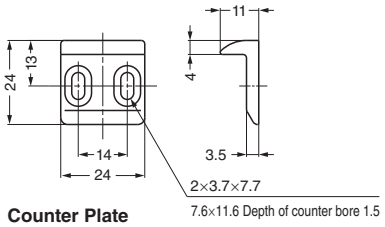




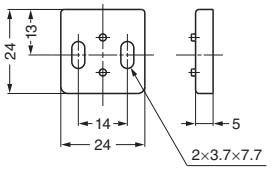


■Bore Dimensions (Using the Cover for the Cut End of Board)





Counter Plate



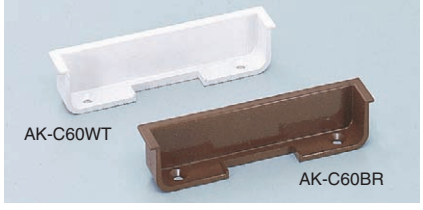
Spacer

Part Name	Material	Colour
Latch Body	ABS/Polyacetal (POM)	White, Brown
Counter Plate	Polyamide (PA)	White, Brown
Spacer	Polyamide (PA)	White, Brown

Item Code	Item Name	Colour	Retaining Force		Weight	Box	Carton
140-050-215	AK-60WT	White	196 N	20 kgf	41 g	20 pcs	200 pcs
140-050-214	AK-60BR	Brown	196 N	20 kgf	41 g	20 pcs	200 pcs

COVER FOR THE CUT END OF BOARD

STAINLESS **AK-C60**



■Features

Cover for the cut end of board for AK-60.

■Parts Included

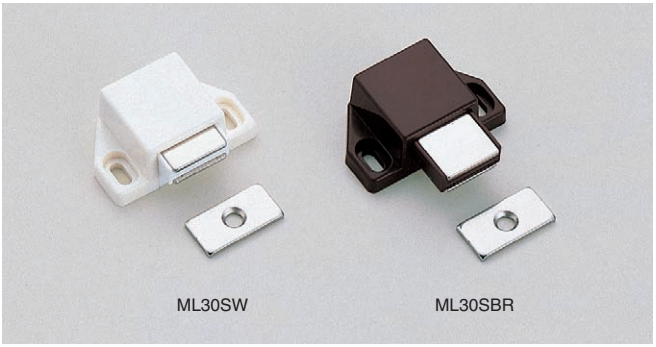
Countersunk head tapping screw 3×10 (SUS)

Item Code	Item Name	Colour	Weight	Box	Carton
140-050-213	AK-C60WT	White	28 g	50 pcs	500 pcs
140-050-212	AK-C60BR	Brown	28 g	50 pcs	500 pcs

MAGNETIC TOUCH LATCH

STEEL

ML-30S



■Features

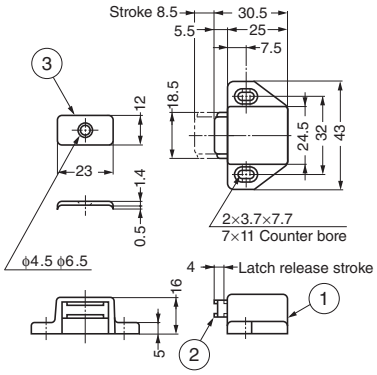
- No handle needed, just push to open/close.
- The rotary cam mechanism offers a longer life than the usual spring mechanism.

■Remarks

- For overlay doors, make a 4 mm gap between door and cabinet frame.
- For large door, please use ML-120 (P.238).

■Parts Included

Round head wood screw 3.1×13, Countersunk head wood screw 3.1×13



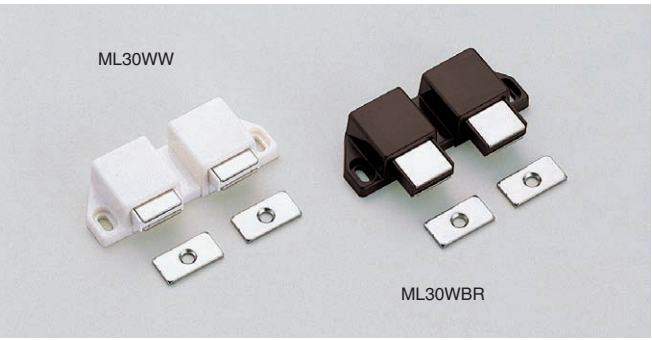
No.	Part Name	Material	Finish/Colour
①	Body	ABS	Brown, White
②	Yoke	Steel	Nickel
③	Counter Plate	Steel	Nickel

Item Code	Item Name	Colour	Screw	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-054	ML-30SW	White	3 pcs	11.8 N	1.2 kgf	22.5 g	50 pcs	750 pcs
140-050-055	ML-30SBR	Brown	3 pcs	11.8 N	1.2 kgf	22.5 g	50 pcs	750 pcs

MAGNETIC TOUCH LATCH

STEEL

ML-30W



■Features

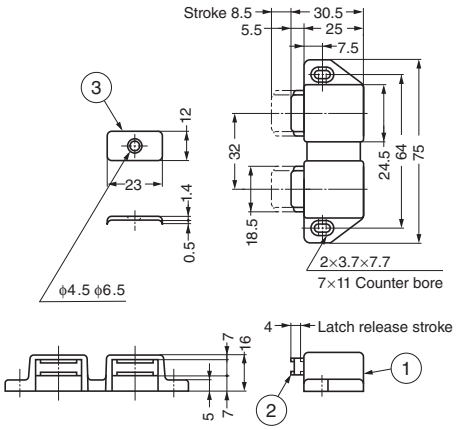
- No handle needed, just push to open/close.
- The rotary cam mechanism offers a longer life than the usual spring mechanism.

■Remarks

- For overlay doors, make a 4 mm gap between door and cabinet frame.
- For large door, please use ML-120 (P.238).

■Parts Included

Round head wood screw 3.1×13, Countersunk head wood screw 3.1×13



No.	Part Name	Material	Finish/Colour
①	Body	ABS	Brown, White
②	Yoke	Steel	Nickel
③	Counter Plate	Steel	Nickel

Item Code	Item Name	Colour	Screw	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-056	ML-30WW	White	4 pcs	11.8 N	1.2 kgf	42 g	30 pcs	450 pcs
140-050-057	ML-30WBR	Brown	4 pcs	11.8 N	1.2 kgf	42 g	30 pcs	450 pcs

MAGNETIC TOUCH LATCH

STEEL

ML-80



■Features

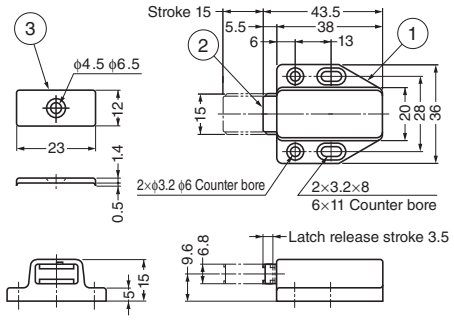
- The rotary cam mechanism offers a longer life then the usual spring mechanism.
- No handle needed, just push to open/close.

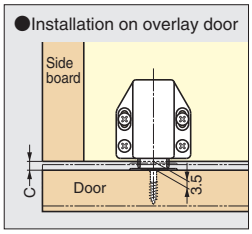
■Remarks

- For overlay doors, make a 3.5 mm gap between door and cabinet frame.
- For large door please use ML120. (below)
- Black colour version also available. For further details, please contact local representatives.

■Parts Included

Round head wood screw 3.1x13, Countersunk head wood screw 2.7x13





C≧3.5

No.	Part Name	Material	Finish/Colour
①	Body	ABS	Brown, White
②	Yoke	Steel	Zinc Chromate
③	Counter Plate	Steel	Zinc Chromate

Item Code	Item Name	Colour	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-270	ML-80BR	Brown	15.7 N	1.6 kgf	22 g	20 pcs	400 pcs
140-050-271	ML-80W	White	15.7 N	1.6 kgf	22 g	20 pcs	400 pcs

MAGNETIC TOUCH LATCH

STEEL

ML-120



■Features

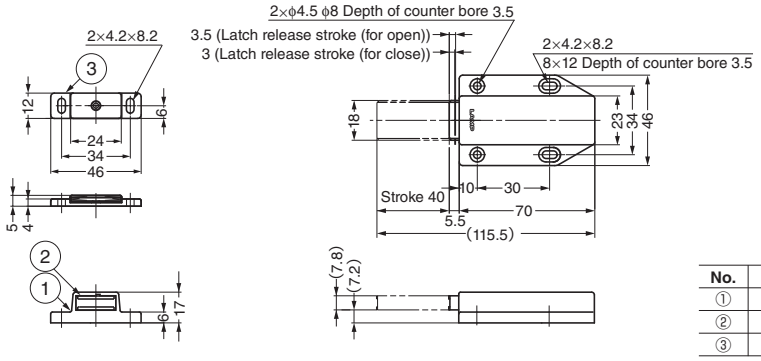
- The rotary cam mechanism offers a longer life then the usual spring mechanism.
- No handle needed, just push to open/close.

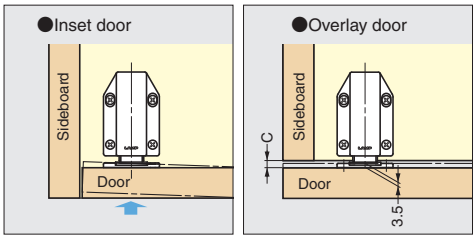
■Remarks

For overlay door, make a 3.5 mm gap between door and cabinet frame.

■Parts Included

Countersunk head tapping screw 4×16





Push to open.

C≧3.5

No.	Part Name	Material	Finish/Colour
①	Body	ABS	Brown, White
②	Yoke	Steel	Zinc Chromate
③	Counter Plate	Steel	Brown, White/Zinc Chromate

Item Code	Item Name	Colour	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-338	ML-120BR	Brown	23.5 N	2.4 kgf	53 g	20 pcs	240 pcs
140-050-337	ML-120W	White	23.5 N	2.4 kgf	53 g	20 pcs	240 pcs

MAGNETIC TOUCH LATCH

STEEL

MC-25

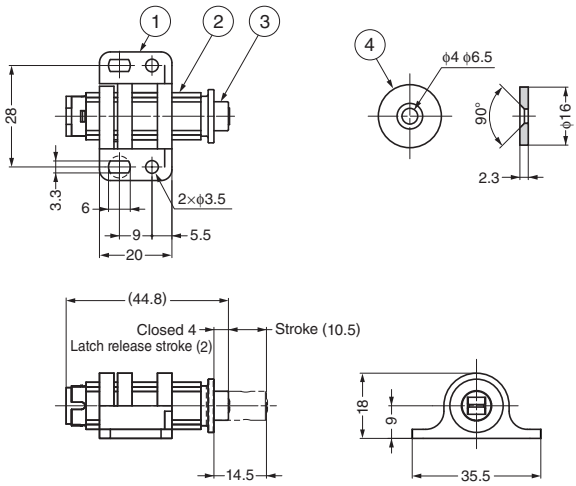


■Features

- No handle needed, just push to open/close.
- Easy adjustment by revolving the body.

■Parts Included

- Round head wood screw 3.1×13 (4 pcs)
- Countersunk head wood screw 3.1×13 (1 pc)



No.	Part Name	Material	Finish/Colour
①	Base	Polypropylene (PP)	Black, White
②	Body	Polypropylene (PP)	Black, White
③	Latch	Polypropylene (PP)	Black, White
④	Counter Plate	Steel	Nickel

Item Code	Item Name	Colour	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-022-347	MC-25BL	Black	4.9 N	0.5 kgf	10 g	30 pcs	600 pcs
140-022-346	MC-25WT	White	4.9 N	0.5 kgf	10 g	30 pcs	600 pcs

MAGNETIC TOUCH LATCH

STEEL

MC-S60

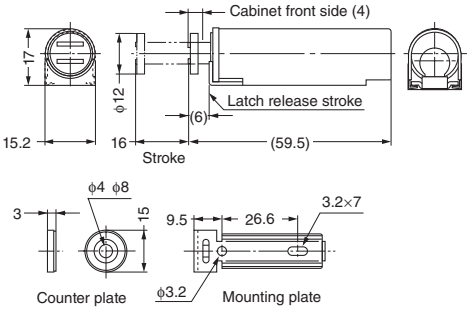


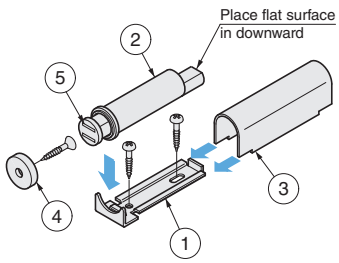
■Features

- Can be used for overlay and inset door (Door thickness: 13-23 mm).
- Stylish design with stainless cover.

■Parts Included

- Pan head wood screw 3.1×13, Countersunk head wood screw 3.8×16
- Counter plate W12





No.	Part Name	Material	Finish/Colour
①	Mounting Plate	Steel	Nickel
②	Body	Polyacetal (POM)/ABS	Brown
③	Cover	Stainless Steel (SUS430)	—
④	Counter Plate	Steel	Nickel
⑤	Yoke	Steel	Nickel

Item Code	Item Name	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-129	MC-S60	10.8 N	1.1 kgf	28.5 g	30 pcs	600 pcs

MAGNETIC TOUCH LATCH (MORTISE TYPE) MC-U60



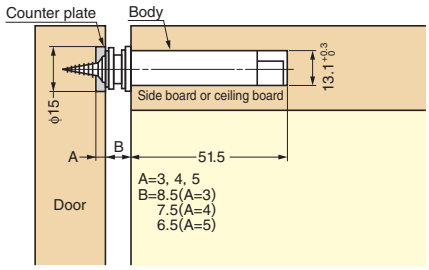
■Features

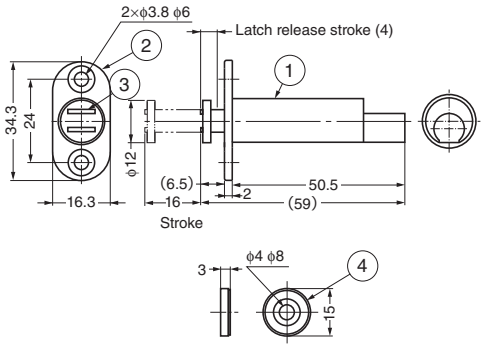
For small overlay door.

■Parts Included

- Pan head wood screw 2.9×13, Countersunk head wood screw 3.8×16
- Counter plate W12

■Cut Out Dimensions





No.	Part Name	Material	Finish/Colour
①	Body	Polyacetal (POM)/ABS	Brown
②	Mounting Plate	Stainless Steel (SUS430)	—
③	Yoke	Steel	Nickel
④	Counter Plate	Steel	Nickel

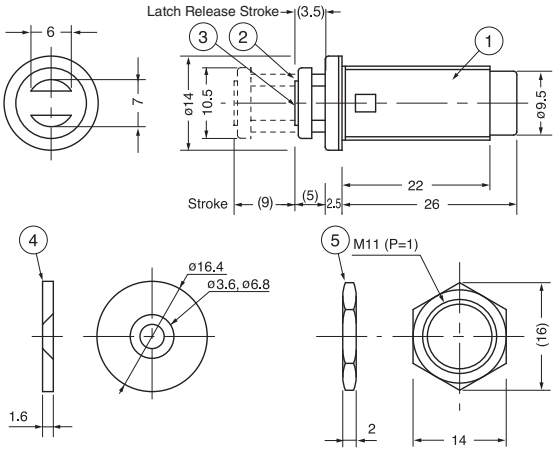
Item Code	Item Name	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-016	MC-U60	10.8 N	1.1 kgf	19 g	30 pcs	600 pcs

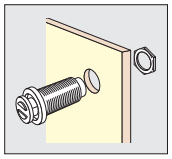
MAGNETIC TOUCH LATCH PM-4N HB



■Features

- Push to open/close.
- Note: For overlay doors, make a 3.5 mm gap between door and cabinet frame.





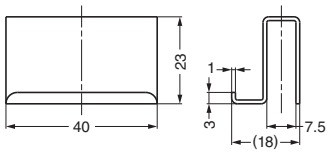
Installation

No.	Part Name	Material	Finish/Colour
①	Body	ABS	Black
②	Yoke	Steel	Black Nickel
③	Magnet	Ferrite	-
④	Counter Plate	Steel	GB
⑤	Nut		Yellow Zinc Chromate

Item Code	Item No.	Magnetic Force kgf	Weight	Box	Carton
140-059-147	PM-4N HB	1.3 kgf	9 g	350 pcs	2800 pcs

PUSH PLATE (WITH PULL) K-150





■Features
Counter plate for magnetic catch.

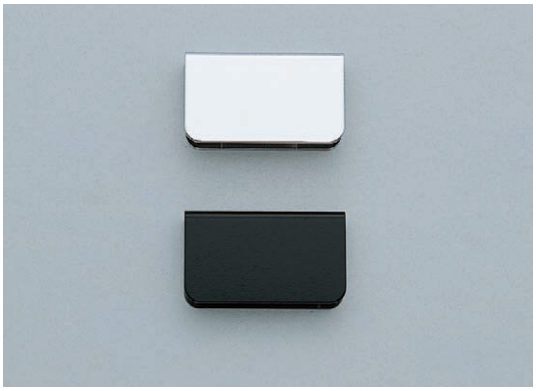
■Parts Included
Spacer

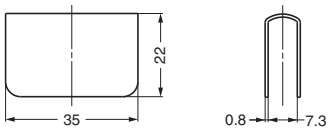
■Application Example



Item Code	Item Name	Material	Finish	Glass Thickness	Weight	Box
140-014-048	K-150CR	Steel	Chrome	5	19.1 g	200 pcs
140-014-049	K-150B	Steel	Paint/Black	5	19.1 g	200 pcs

PUSH PLATE K-110





■Features
Counter plate for magnetic catch.

■Parts Included
Spacer

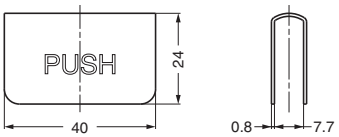
■Application Example



Item Code	Item Name	Material	Finish	Glass Thickness	Weight	Box
140-014-045	K-110CR	Steel	Chrome	5	10.5 g	200 pcs
140-010-015	K-110B	Steel	Paint/Black	5	10.5 g	200 pcs

PUSH PLATE K-130





■Features
Counter plate for magnetic catch.

■Parts Included
Spacer

■Application Example

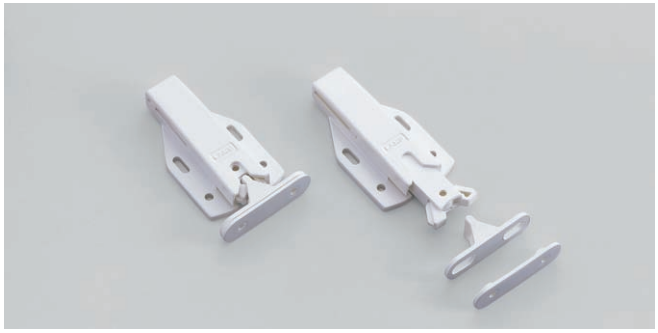


Item Code	Item Name	Material	Finish	Glass Thickness	Weight	Box
140-014-046	K-130CR	Steel	Chrome	5	13 g	200 pcs
140-014-047	K-130B	Steel	Paint/Black	5	13 g	200 pcs

NON-MAGNETIC TOUCH LATCH

STAINLESS

MLC-100WT



■Features

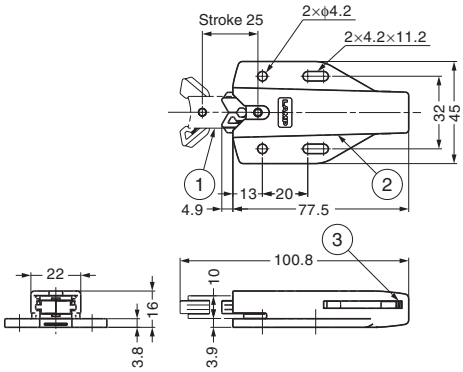
- Long stroke.
- No handle needed, just push to open/close.
- Non magnetic.
- Wide adjustment range: ±2 mm vertically and ±3.5 mm horizontally.
- Passed 100,000-times opening and closing test.

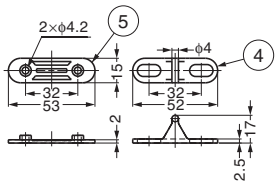
■Parts Included

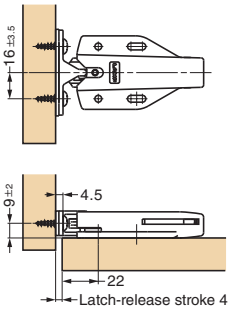
Truss head tapping screw 4×16 (SUS)

■Recommended Screw

M4 pan or truss head screw







No.	Part Name	Material	Finish/Colour
①	Arm	Polyacetal (POM)	White
②	Body	PBT	White
③	Spring	Steel	Yellow Zinc Chromate
④	Counter Plate	Polyacetal (POM)	White
⑤	Counter Plate	PBT	White

Item Code	Item Name	Retaining Force N	Retaining Force kgf	Push Force N	Push Force kgf	Weight	Box	Carton
140-028-540	MLC-100WT	59 N	6 kgf	12.7 N	1.3 kgf	32 g	20 pcs	240 pcs

NON-MAGNETIC TOUCH LATCH

STAINLESS

MLC-HT130BL



■Features

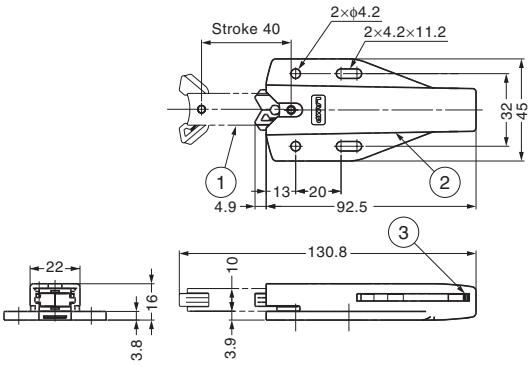
- Heat-resistance (up to 120˚C) and long stroke.
- No handle needed, just push to open/close.
- Non magnetic.
- Wide adjustment range: ±2 mm vertically and ±3.5 mm horizontally.
- Passed 100,000-times opening and closing test.

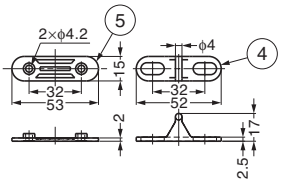
■Parts Included

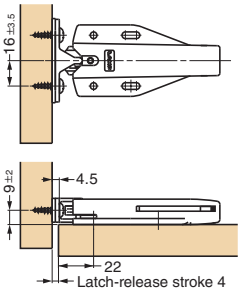
Truss head tapping screw 4×16 (SUS)

■Recommended Screw

M4 pan or truss head screw







No.	Part Name	Material	Finish/Colour
①	Arm	Polyamide (PA)	Black
②	Body	PBT	Black
③	Spring	Stainless Steel (SUS304)	Plain
④	Counter Plate	Polyamide (PA)	Black
⑤	Counter Plate	PBT	Black

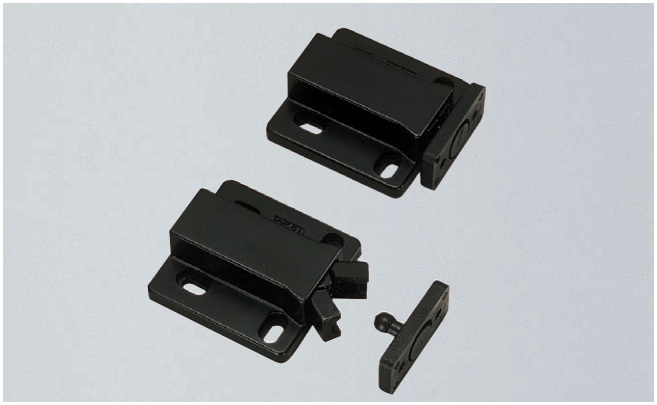
Item Code	Item Name	Retaining Force N	Retaining Force kgf	Push Force N	Push Force kgf	Weight	Box	Carton
140-028-539	MLC-HT130BL	※117.6 N	※12 kgf	16.7 N	1.7 kgf	40 g	20 pcs	240 pcs

※Retaining force reduces with temperature and reaches 3 kgf (29.4 N) at 120˚C.

NON-MAGNETIC TOUCH LATCH

STEEL

MC-28



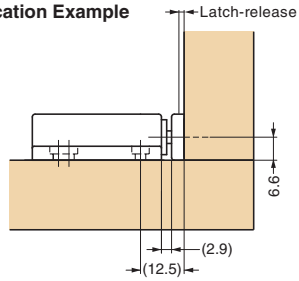
■Features

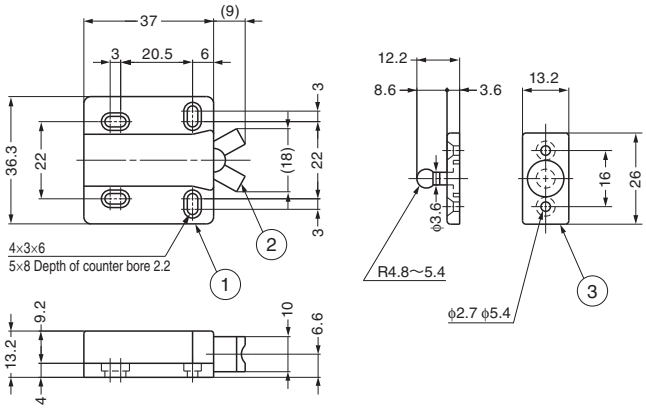
- No handle needed, just push to open/close.
- Non magnetic.
- Passed 30,000-times opening and closing test.

■Remarks

For overlay door, make a 3 mm gap between door and cabinet frame.

■Application Example





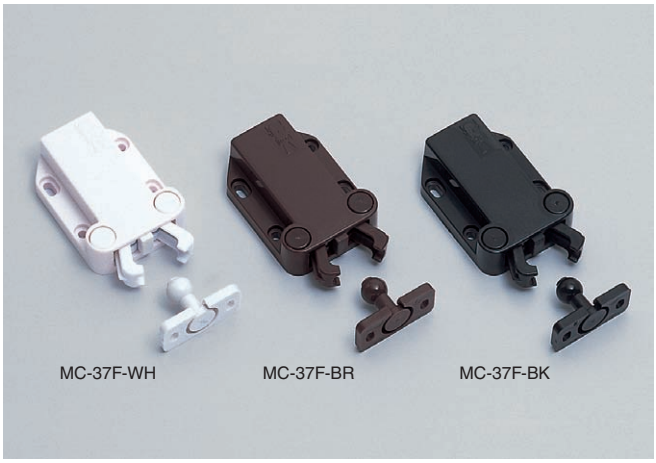
No.	Part Name	Material
①	Body	ABS
②	Arm	Polyacetal (POM)
③	Counter Plate	Polyamide (PA)

Item Code	Item Name	Colour	Retaining Force N	Retaining Force kgf	Weight	Box	Carton
140-059-203	MC-28	Black	29 N	3 kgf	15 g	50 pcs	500 pcs

NON-MAGNETIC TOUCH LATCH

STEEL

MC-37F



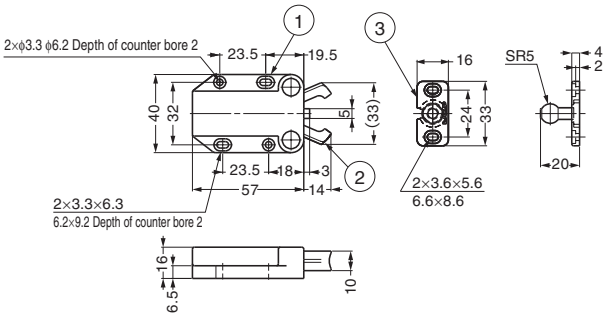
■Features

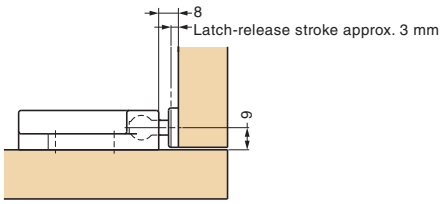
- No handle needed, just push to open/close.
- Floating strike for easy alignment.
- Non magnetic.
- Passed 100,000-times opening and closing test.

Video Link

■Parts Included

Round head wood screw 3.5×10, 3.1×13



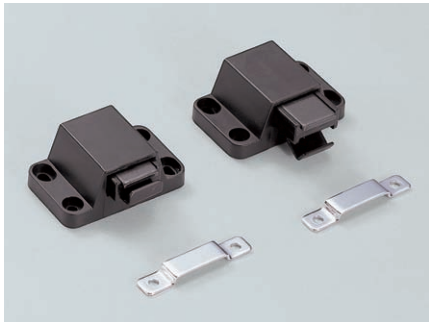


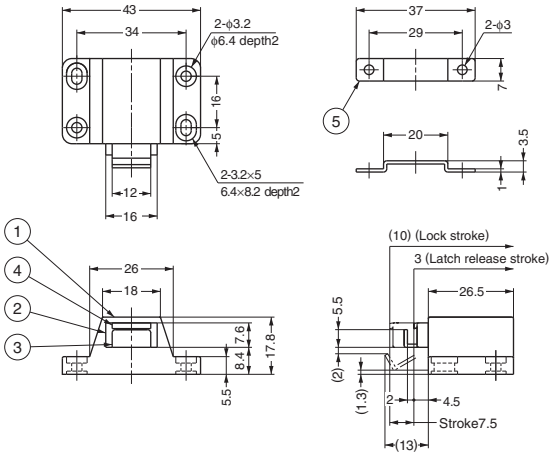
No.	Part Name	Material	Colour
①	Body	ABS	Black, Brown, White
②	Arm	Polyacetal (POM)	Black, Brown, White
③	Counter Plate	Polyamide (PA)	Black, Brown, White

Item Code	Item Name	Colour	Retaining Force N	Retaining Force kgf	Weight	Box	Carton
140-058-064	MC-37F-BK	Black	78 N	8 kgf	24 g	30 pcs	300 pcs
140-058-066	MC-37F-BR	Brown	78 N	8 kgf	24 g	30 pcs	300 pcs
140-058-065	MC-37F-WH	White	78 N	8 kgf	24 g	30 pcs	300 pcs

NON-MAGNETIC TOUCH LATCH

PR-21P





■**Features**

No handle needed, just push to open/close.

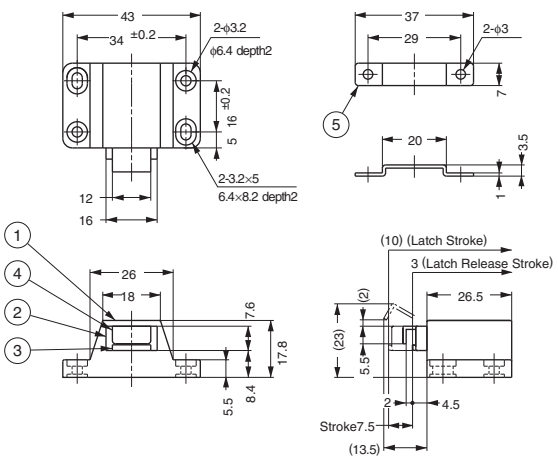
No.	Part Name	Material	Finish/Colour
①	Body	ABS	Black, Brown
②	Slide	Polyacetal	Black, Brown
③	Arm	Steel	Paint/Brown
④	Yoke	Steel	GB
⑤	Counter Plate	Steel	Chrome

Item Code	Item Name	Colour	Weight	Box	Carton
140-050-277	PR-21PK	Black	16.3 g	100 pcs	800 pcs
140-050-272	PR-21PD	Brown	16.3 g	100 pcs	800 pcs

NON-MAGNETIC TOUCH LATCH

PR-20P





■**Features**

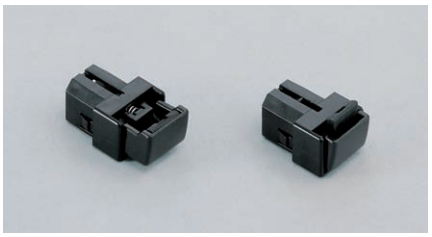
No handle needed, just push to open/close.

No.	Part Name	Material	Finish/Colour
①	Body	ABS Plastic	Black, Brown
②	Slide	Polyacetal	Black, Brown
③	Arm	Steel	Paint/Brown
④	Yoke	Steel	Bronze
⑤	Counter Plate	Steel	Chrome

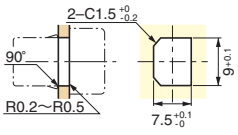
Item Code	Item Name	Colour	Weight	Box	Carton
140-050-276	PR-20PK	Black	16.3 g	100 pcs	800 pcs
140-050-274	PR-20PD	Brown	16.3 g	100 pcs	800 pcs

NON-MAGNETIC MINI TOUCH LATCH

NS2



■**Cut Out Dimensions**

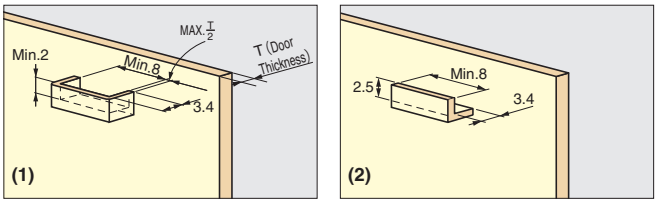


■**Features**

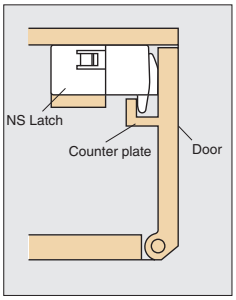
- No handle needed, just push to open/close.
- Miniature design is ideal for small door applications.
- Snap-in type.

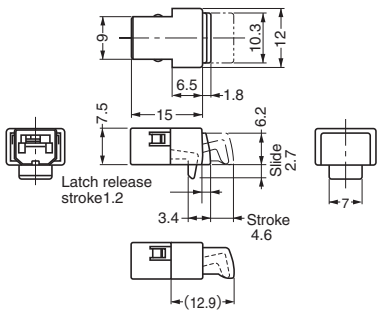
■**Remarks**

Counter plate not included.



Recommended counter plate dimension.



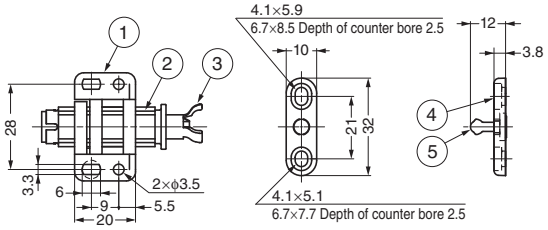


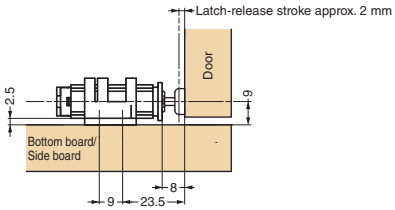
Item Code	Item Name	Material	Door Thickness	Colour	Weight	Box
140-059-098	NS2	Polycarbonate	2	Black	1.1 g	500 pcs

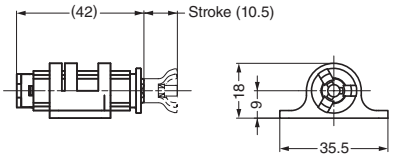
NON-MAGNETIC TOUCH LATCH

STEEL **MC-20**









■Features

- No handle needed, just push to open/close.
- Easy adjustment by revolving the body.
- Non magnetic.

■Parts Included

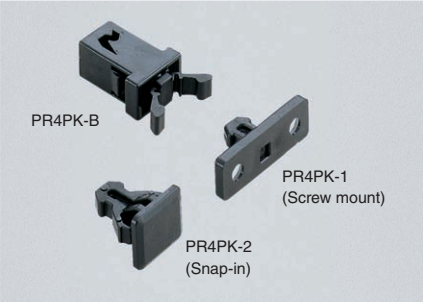
Round head wood screw 3.1×13

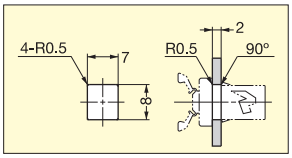
No.	Part Name	Material	Colour
①	Base	Polypropylene (PP)	Black, White
②	Body	Polypropylene (PP)	Black, White
③	Latch	Polypropylene (PP)	Black, White
④	Counter Plate	Polypropylene (PP)	Black, White
⑤	Counter Plate	Polypropylene (PP)	Black, White

Item Code	Item Name	Colour	Retaining Force		Weight	Box	Carton
140-022-344	MC-20BL	Black	40 N	4 kgf	6 g	30 pcs	600 pcs
140-022-345	MC-20WT	White	40 N	4 kgf	6 g	30 pcs	600 pcs

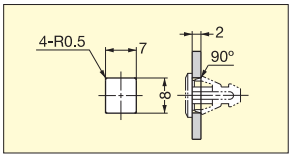
NON-MAGNETIC MINI TOUCH LATCH

PR-4PK

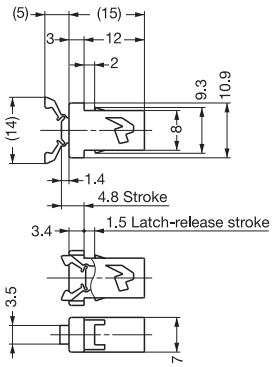


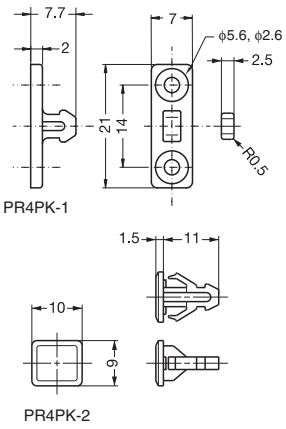


Cut Out Dimensions for body



Cut Out Dimensions (Strike for Snap-in)





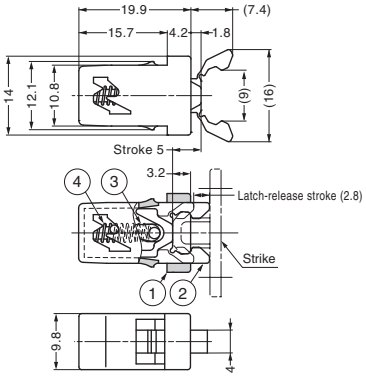
Item Code	Item Name	Specification	Retaining Force		Weight	Box	Carton
140-050-118	PR4PK-B	Body	12 N	1.2 kgf	0.7 g	1,000 pcs	8,000 pcs
140-059-019	PR4PK-1	Counter Plate	—	—	0.4 g	—	1,000 pcs
140-059-018	PR4PK-2	Counter Plate	—	—	0.5 g	—	500 pcs

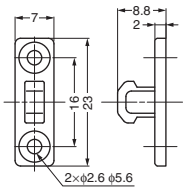
Part Name	Material	Colour
Body	Polyacetal	Black
Counter Plate	Polyamide	

NON-MAGNETIC MINI TOUCH LATCH

ESN-195/BLK







ESN-195-ST

No.	Part Name	Material	Colour
①	Body	Plastic (PBT)	Black
②	Catch	Polyamide (PA)	Black
③	Arm	Plastic (LCP)	Black
④	Spring	Steel	—

■Features

Strong retaining force.

■Sold Separately

Counter plate ESN-195-ST

■Recommended Screw (For Strikes)

- Countersunk head screw M2.5
- Countersunk head wood screw Nominal 2.4

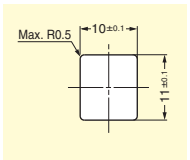
■Body

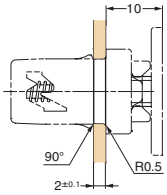
Item Code	Item Name	Retaining Force		Weight	Box	Carton
140-059-195	ESN-195/BLK	34 N	3.5 kgf	2.3 g	1,000 pcs	5,000 pcs

■Counter Plate

Item Code	Item Name	Material	Weight	Box	Carton
140-014-075	ESN-195-ST	Polyacetal (POM)	0.5 g	1,000 pcs	4,000 pcs

■Cut Out Dimensions



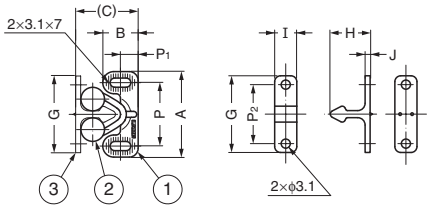


ROTARY CATCH

TEST METHOD 10

RC6900, RC6901





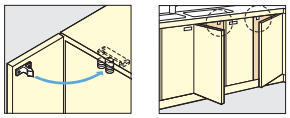
■Features

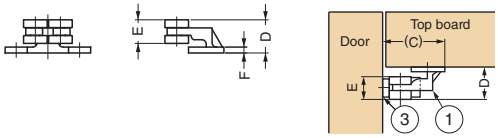
- Resin body prevents rust.
- Suitable for general furniture, kitchen equipment and marine hardware.
- Passed 100,000 times opening and closing test.
- Can be used for overlay and inset door.
- Brown colour available (RC6901 only).

■Recommended Screw

Binding head tapping screw nominal 3

■Installation





Item Name	Push-in Force N	Push-in Force kgf	Pulling Force N	Pulling Force kgf
RC6900	10.8 N	1.1 kgf	15.7 N	1.6 kgf
RC6901	21.6 N	2.2 kgf	31.4 N	3.2 kgf

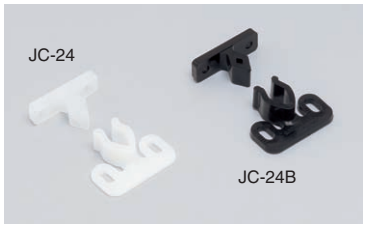
No.	Material	Colour
①	Polyacetal (POM)	Natural
②	Polyethylene (PE)	Natural
③	Polyacetal (POM)	Natural

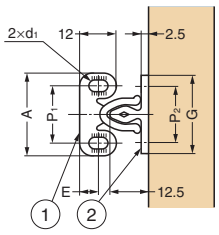
Item Code	Item Name	A	B	C	D	E	F	P	P1	G	H	I	J	P2	Weight	Box	Carton
140-050-209	RC6900	29	12	21.2	11.3	8	2	21.5	6	26	13.5	7.5	1.7	20	3 g	100 pcs	2,000 pcs
140-051-015	RC6901	31.3	14	27.2	12.6	9	2.3	24.4	7.5	32	16.5	9	2	23.6	4 g	100 pcs	2,000 pcs

KNUCKLE CATCH

TEST METHOD 10

JC-24, JC-26





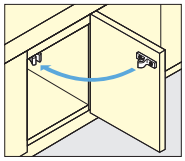
■Features

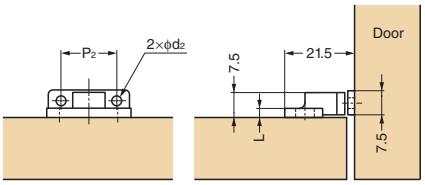
- Resin body prevents rust.
- Suitable for general furniture, kitchen equipment and marine hardware.
- Can be used for overlay and inset door.

■Recommended Screw

JC-24: Round head wood screw nominal 2.4
JC-26: Binding head tapping screw nominal 3

■Installation





No.	Part Name	Material	Colour
①	Body	Polyacetal (POM)	Natural/Black (JC-24B)
②	Counter Plate	Polyamide (PA)	Natural/Black (JC-24B)

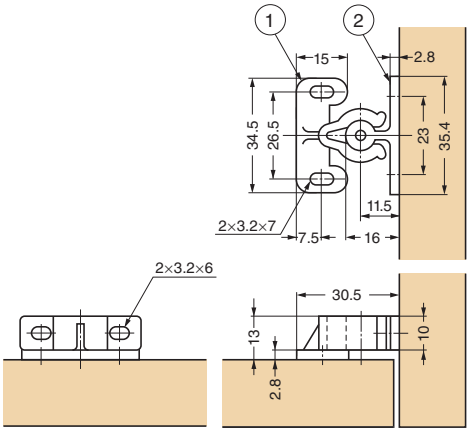
Item Code	Item Name	A	P1	E	G	P2	L	d1	d2	Push-in Force		Pulling Force		Weight	Box	Carton
140-050-046	JC-24	24	17	7	22	15.5	2	2.5×5.5	2.5	30.4 N	3.1 kgf	26.5 N	2.7 kgf	1.5 g	100 pcs	2,000 pcs
140-916-119	JC-24B	24	17	7	22	15.5	2	2.5×5.5	2.5	30.4 N	3.1 kgf	26.5 N	2.7 kgf	1.5 g	100 pcs	2,000 pcs
140-051-018	JC-26	26	18	6	24.5	17	2.5	3.3×6	3.3	21.6 N	2.2 kgf	16.7 N	1.7 kgf	2 g	100 pcs	5,000 pcs

KNUCKLE CATCH

TEST METHOD 10

NAC

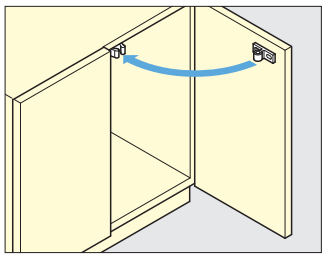




■Features

- Holds door tightly and suitable for large door.
- High durability.
- Can be used for overlay and inset door.

■Installation



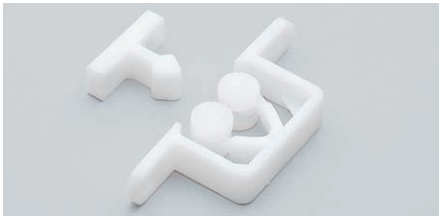
No.	Part Name	Material	Colour
①	Body	Polyacetal (POM)	Natural
②	Counter Plate	Polyamide (PA)	Natural

Item Code	Item Name	Push-in Force N	Push-in Force kgf	Pulling Force N	Pulling Force kgf	Weight	Box	Carton
140-051-013	NAC	55.8 N	5.7 kgf	69.5 N	7.1 kgf	4.5 g	100 pcs	1,000 pcs

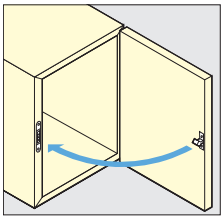
ROTARY CATCH (MORTISE TYPE)

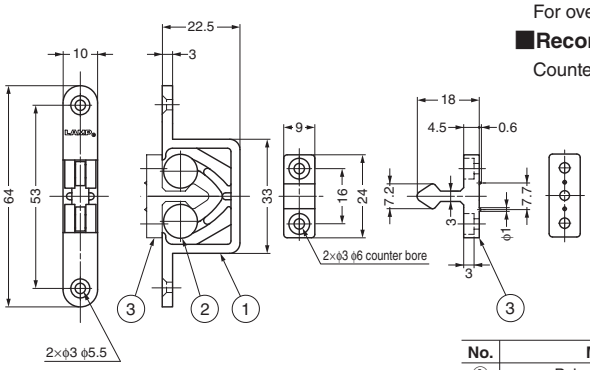
TEST METHOD 10

RCU



■Installation





■Features

For overlay doors.

■Recommended Screw

Counter head wood screw nominal 2.7

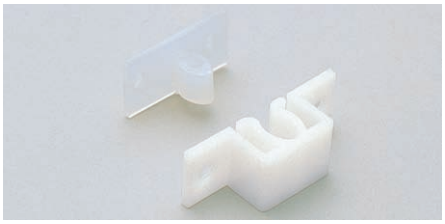
No.	Material	Colour
①	Polyacetal (POM)	Natural
②	Polyethylene (PE)	Natural
③	Polyacetal (POM)	Natural

Item Code	Item Name	Push in Force N	Push in Force kgf	Pulling Force N	Pulling Force kgf	Weight	Box	Carton
140-051-014	RCU	29.4 N	3.0 kgf	31.4 N	3.2 kgf	8 g	100 pcs	800 pcs

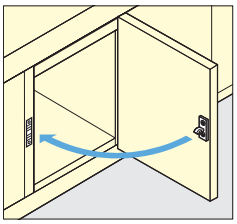
KNUCKLE CATCH (MORTISE TYPE)

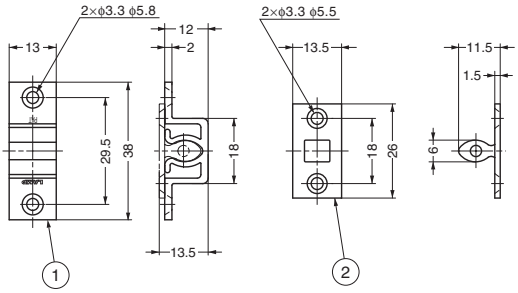
TEST METHOD 10 STEEL

JCU



■Installation





■Features

For overlay doors.

■Screw Included

Counter head wood screw 2.7×16

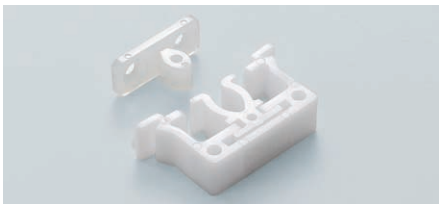
No.	Part Name	Material	Colour
①	Body	Polyacetal (POM)	Natural
②	Counter Plate	Polyamide (PA)	Natural

Item Code	Item Name	Push in Force N	Push in Force kgf	Pulling Force N	Pulling Force kgf	Weight	Box	Carton
140-051-020	JCU	19.6 N	2.0 kgf	22.5 N	2.3 kgf	3.5 g	50 pcs	1,000 pcs

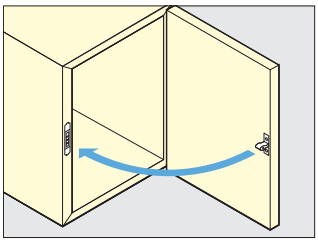
KNUCKLE CATCH (MORTISE TYPE)

TEST METHOD 10

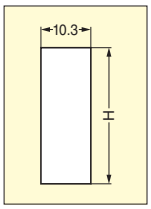
JCU-F

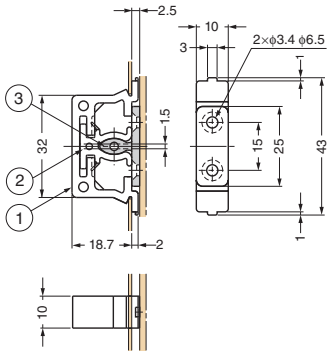


■Installation



■Cut Out Dimensions





■Features

- Grabs and holds door tightly.
- Designed for sheet metal application.
- Internal catch body slides 1.5 mm for better alignment.

■Recommended Screw

Countersunk tapping screw nominal 3, Countersunk screw M3

Door Thickness	Height H
0.8	32.3
1.0	32.9
1.2	33.8

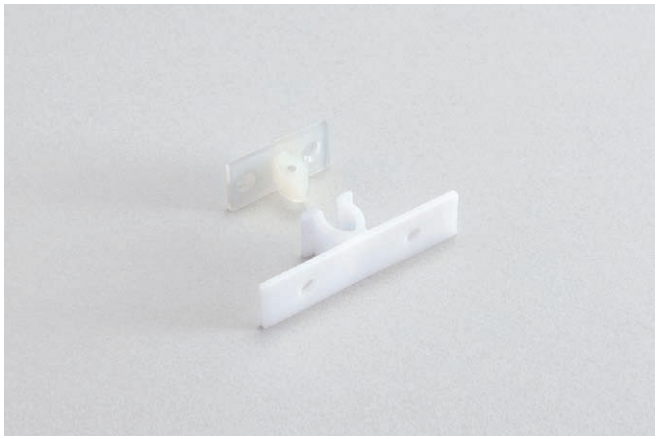
No.	Material	Colour
①	Polyacetal (POM)	Natural
②	Polyacetal (POM)	Natural
③	Polyamide (PA)	Natural

Item Code	Item Name	Push in Force N	Push in Force kgf	Pulling Force N	Pulling Force kgf	Weight	Box	Carton
140-051-112	JCU-F	19.6 N	2.0 kgf	19.6 N	2.0 kgf	5.2 g	40 pcs	800 pcs

KNUCKLE CATCH

TEST METHOD 10 | STEEL

JC-T50

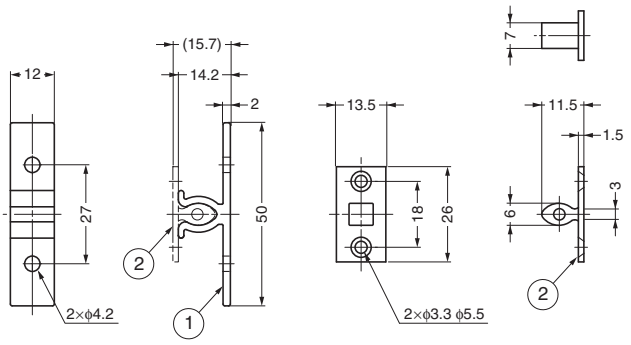


■Features

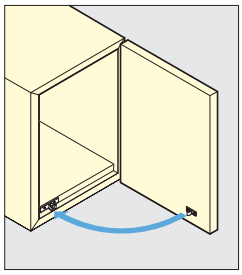
- Resin body prevents rust.
- Can be used for overlay and inset door.
- Suitable for furniture, kitchen equipment and marine hardware.

■Parts Included

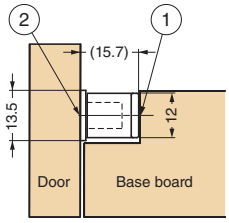
- Countersunk head tapping wood screw 2.7×16 (for male installation)
- Binding head screw 4×16 (for female screw)



■Installation



■Application Reference



No.	Part Name	Material	Colour
①	Body	Polyacetal (POM)	Natural
②	Counter Plate	Polyamide (PA)	Natural

Item Code	Item Name	Push-in Force N	Push-in Force kgf	Pulling Force N	Pulling Force kgf	Weight	Box	Carton
140-019-545	JC-T50	32 N	3.3 kgf	37 N	3.8 kgf	3 g	50 pcs	500 pcs

ROLLER CATCH

C882

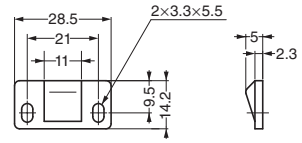


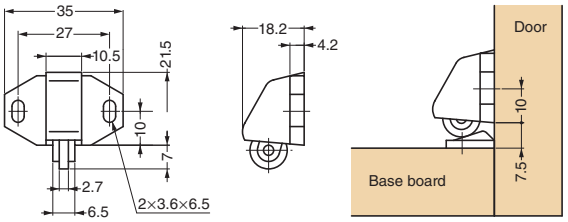
■Features

The catch pulls the door in to ensure proper closing.

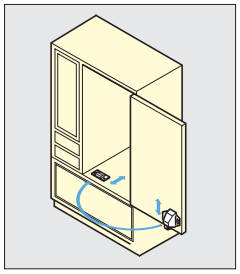
■Remarks

Please note the direction of counter plate.



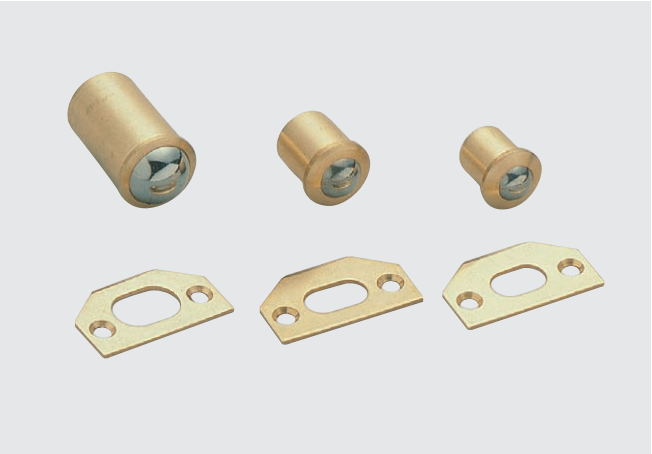


■Installation

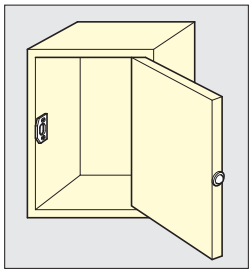


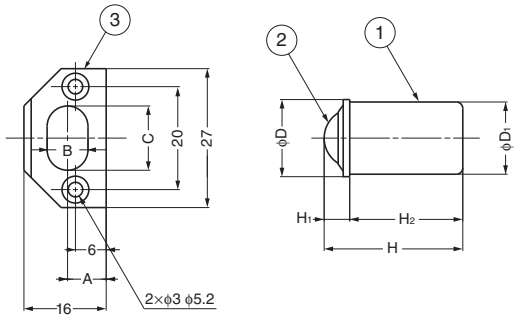
Item Code	Item Name	Material	Colour	Weight	Box	Carton
140-050-203	C882W	Polyethylene (PE)	White	5 g	150 pcs	1,800 pcs
140-050-204	C882BR	Polyethylene (PE)	Brown	5 g	150 pcs	1,800 pcs

TENSION CATCH (MORTISE TYPE) TS



■Installation

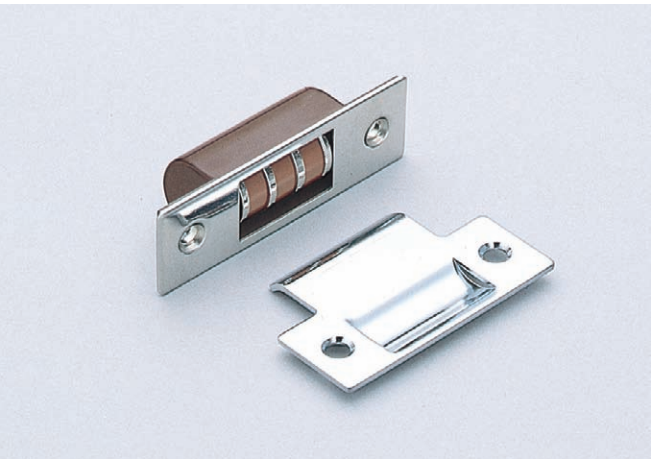




No.	Part Name	Material	Finish
①	Body	Brass	Plain
②	Ball	Steel	Plain
③	Counter Plate	Brass	Plain

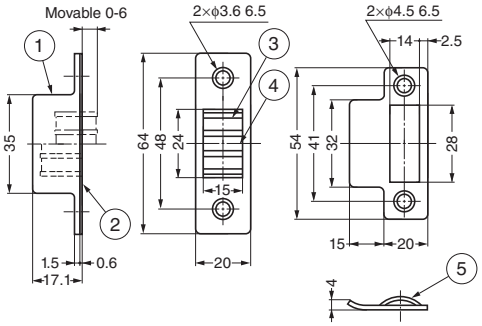
Item Code	Item Name	A	B	C	D	D1	H	H1	H2	Weight	Box	Carton
140-051-041	TSS	7	6.5	10	12	9.7	14.5	3.5	11	8 g	200 pcs	2,000 pcs
140-051-042	TSM	7	6.5	11.5	13	11.5	16.5	4	12	10 g	200 pcs	2,000 pcs
140-051-043	TSL	7.5	8.5	12.5	15	14	27	5	22	18.5 g	200 pcs	800 pcs

MAGNETIC ROLLER CATCH (FOR INSET DOOR) DER

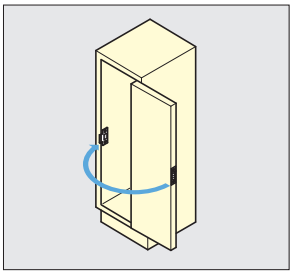


■Features

- With the roller for smooth open/close.
- For inset door.



■Installation



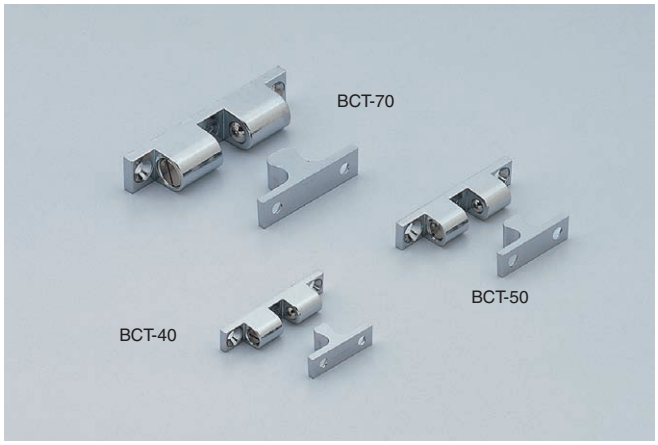
No.	Part Name	Material	Finish/Colour
①	Body	ABS	Brown
②	Cover	Stainless Steel	–
③	Yoke	Steel	Nickel
④	Magnet	Ferrite	–
⑤	Counter Plate	Steel	Chrome

Item Code	Item Name	Weight	Box	Carton
140-051-040	DER	48 g	24 pcs	240 pcs

TENSION CATCH

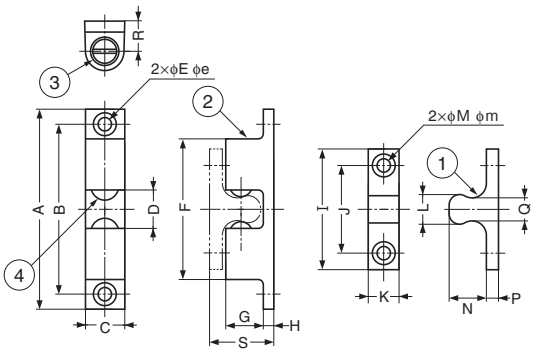
TEST METHOD 10

BCT



■Features

Can be installed vertically or horizontally.



No.	Part Name	Material	Finish
①	Counter Plate	Zinc Alloy (ZDC)	Chrome
②	Body	Zinc Alloy (ZDC)	Chrome
③	Cover	Brass	Nickel
④	Ball	Steel	Polished
—	Spring	Steel	Plain

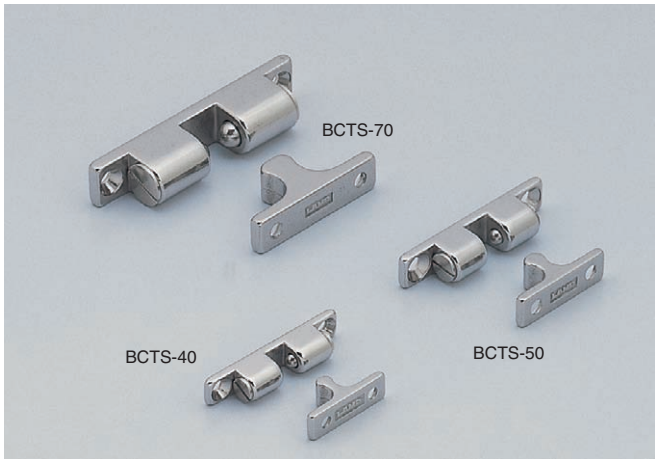
Item Code	Item Name	Push-in Force N	Push-in Force kgf	Pulling Force N	Pulling Force kgf	Weight	Box	Carton
140-050-108	BCT-40	43.1 N	4.4 kgf	29.4 N	3.0 kgf	16 g	100 pcs	400 pcs
140-050-107	BCT-50	40.2 N	4.1 kgf	32.3 N	3.3 kgf	26 g	100 pcs	400 pcs
140-050-106	BCT-70	45.1 N	4.6 kgf	34.3 N	3.5 kgf	70 g	50 pcs	200 pcs

Item Name	A	B	C	D	E	e	F	G	H	I	J	K	L	M	m	N	P	Q	R	S
BCT-40	42.5	35	8	6.3	3.2	6.2	26.7	7.5	2.5	25	16	7.5	5.5	3.2	6.2	8.8	2.5	3.7	6.25	13.8
BCT-50	50	40	10	8.4	4.2	8.2	29.8	9.5	3	30	20	9	7.3	4.2	8.2	9.8	2.5	4.7	7.75	15.3
BCT-70	70	60	13.5	12	4.2	8.2	49	13	4	42	30	10.5	11	4.2	8.2	14.2	3	8.2	10.5	21.2

TENSION CATCH

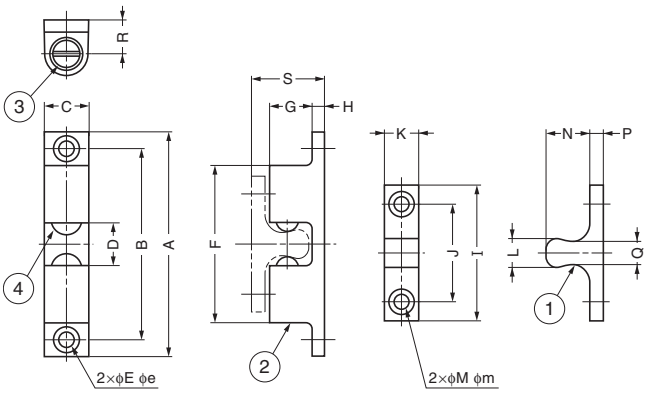
TEST METHOD 10 STAINLESS 316 STEEL

BCTS



■Features

- Can be installed vertically or horizontally.
- Corrosion resistance: Made of SCS14.



Item Code	Item Name	Push-in Force		Pulling Force		Weight	Box	Carton
140-050-242	BCTS-40	20 N	2 kgf	13 N	1.3 kgf	18 g	50 pcs	500 pcs
140-050-241	BCTS-50	23 N	2.3 kgf	18 N	1.8 kgf	30 g	50 pcs	500 pcs
140-050-240	BCTS-70	56 N	5.7 kgf	38 N	3.9 kgf	83 g	25 pcs	250 pcs

No.	Part Name	Material	Finish
①	Counter Plate	Stainless Steel (SCS14)	Polished
②	Body		
③	Cover	Stainless Steel (SUS316)	Plain
④	Ball		Mirror
—	Spring	Stainless Steel (SUS304)	Plain

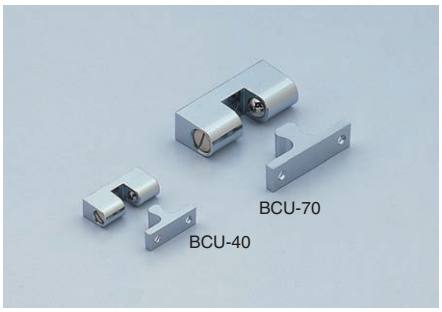
※SCS14 is equivalent of SUS316.

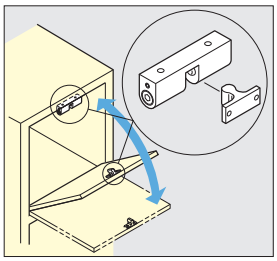
Item Name	A	B	C	D	E	e	F	G	H	I	J	K	L	M	m	N	P	Q	R	S
BCTS-40	43	35	8	5.9	3.2	6.2	28.4	7.5	2.5	25	16	7.5	4.5	3.2	6.2	8.5	2.5	2.7	6	13.5
BCTS-50	50	40	10	7.5	4.2	8.2	31.5	9.3	2.9	30	20	9	6	4.2	8.2	10.3	2.9	3.8	7.2	16.1
BCTS-70	70	60	13	13	4.2	8.2	51	13	4	42	30	10.5	10	4.2	8.2	15	4	8	10.5	23

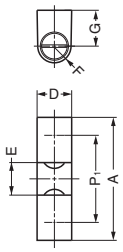
TENSION CATCH

TEST METHOD 10

BCU

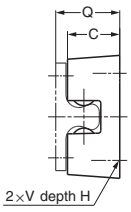


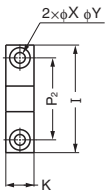


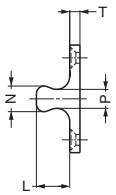


■Features

Can be installed vertically or horizontally.







Item Code	Item Name	Push-in Force		Pulling Force		Material	Finish	Weight	Box	Carton
140-050-103	BCU-40	35.3 N	3.6 kgf	23.5 N	2.4 kgf	Zinc Alloy (ZDC)	Chrome	18 g	100 pcs	400 pcs
140-050-104	BCU-70	40.2 N	4.1 kgf	38.2 N	3.9 kgf	Zinc Alloy (ZDC)	Chrome	75 g	50 pcs	200 pcs

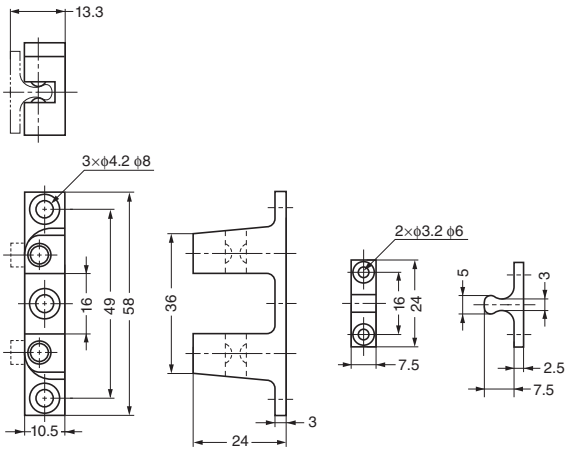
Item Name	A	P1	C	D	E	F	G	H	I	P2	K	L	N	P	T	X	Y	Q	V
BCU-40	28.5	20	12.5	8.3	6.5	R4	8.5	5	25	16	7.5	8.8	5.5	3.7	3	3.2	6.4	15.7	M3
BCU-70	48	34	20.5	13.5	12.7	R6.5	14	6	42	32	11	13	10	7.3	4	4.2	8.4	24.9	M5

TENSION CATCH

TEST METHOD 10

BCT-60W



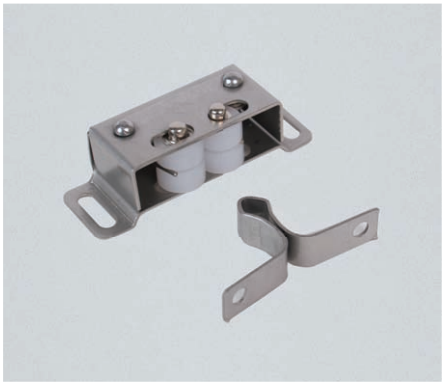


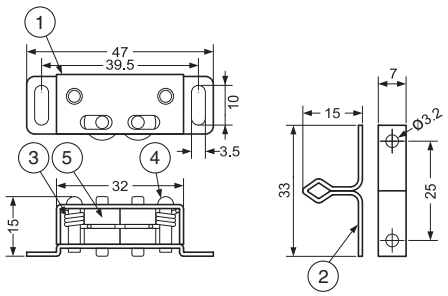
Item Code	Item Name	Push-in Force		Pulling Force		Material	Finish	Weight	Box	Carton
140-059-035	BCT-60W	31.4 N	3.2 kgf	26.5 N	2.7 kgf	Zinc Alloy (ZDC)	Chrome	39.5 g	80 pcs	320 pcs

ROLLER CATCH

STAINLESS 304 STEEL

S-1080 (STBRC)



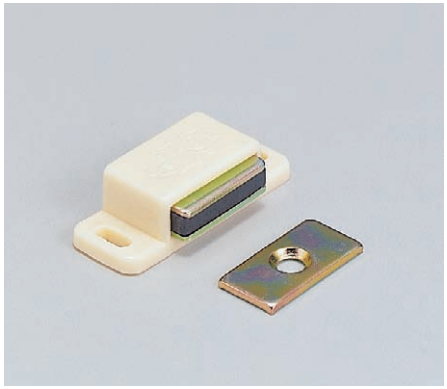


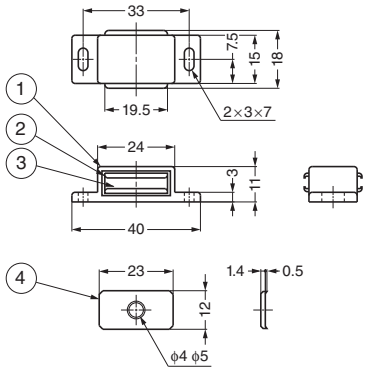
No.	Part Name	Material	Finish
①	Body	304 Stainless Steel	Plain
②	Counter Plate		
③	Spring		
④	Rivet	430 Stainless Steel	
⑤	Roller	Polyethylene	White

Item Code	Item Name	Push-in Force	Pulling Force	Weight	Box	Carton
140-098-005	S-1080 (STBRC)	1.0 kgf	2.7 kgf	18 g	60 pcs	1,200 pcs

MAGNETIC CATCH

MC-FM20S





■Parts Included

- Round head wood screw 3.1×13 2 pcs
- Countersunk head wood screw 2.9×13 1 pc

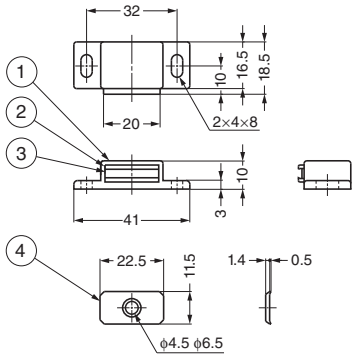
No.	Material	Finish/Colour
①	Polyethylene (PE)	Ivory
②	Steel (Yoke)	Yellow Zinc Chromate
③	Ferrite	—
④	Steel	Yellow Zinc Chromate

Item Code	Item Name	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-048	MC-FM20S	9.8 N	1 kgf	15 g	36 pcs	720 pcs

MAGNETIC CATCH

MC0097





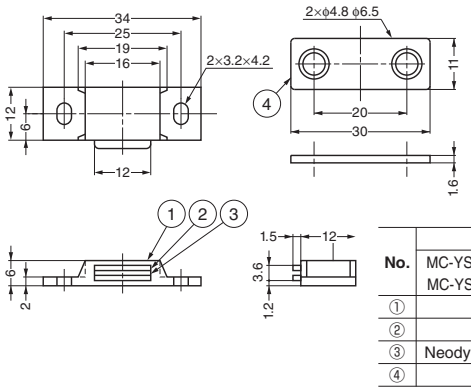
No.	Material	Finish/Colour
①	Polyethylene (PE)	Black, White
②	Steel (Yoke)	Clear Zinc Chromate
③	Ferrite	—
④	Steel	Clear Zinc Chromate

Item Code	Item Name	Colour	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-331	MC0097W	White	14.7 N	1.5 kgf	12 g	100 pcs	1,000 pcs
140-050-329	MC0097W-1	White	34.3 N	3.5 kgf	12 g	100 pcs	1,000 pcs
140-050-332	MC0097B	Black	14.7 N	1.5 kgf	12 g	100 pcs	1,000 pcs
140-050-330	MC0097B-1	Black	34.3 N	3.5 kgf	12 g	100 pcs	1,000 pcs

MAGNETIC CATCH

MC-YS





■Features

- Ultra thin magnetic catch ideal for tight space.
- Extra strong magnetic force: MC-YS001, MC-YS001P
- Weaker magnetic force: MC-YS002, MC-YS002P

■Parts Included (MC-YS001P, MC-YS002P)

- Countersunk head wood screw 2.7×13
- Countersunk head wood screw 3.1×13

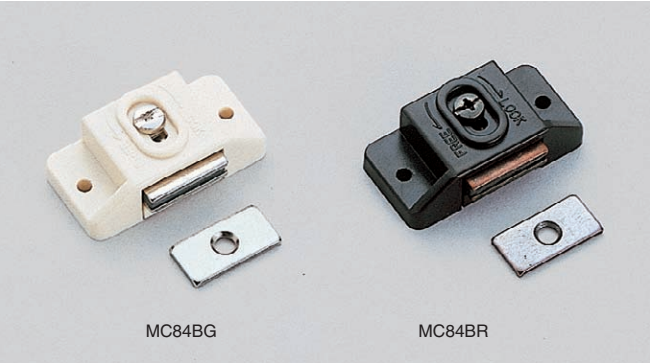
No.	Material		Finish/Colour	
	MC-YS001・MC-YS001P	MC-YS002・MC-YS002P	MC-YS001・MC-YS001P	MC-YS002・MC-YS002P
①	PBT		White	
②	Steel		Yellow Zinc Chromate	Clear Zinc Chromate
③	Neodymium	Ferrite	Nickel	—
④	Steel		Yellow Zinc Chromate	

Item Code	Item Name	Type	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-298	MC-YS001	Magnetic Catch Only	29.4 N	3 kgf	6 g	100 pcs	1,000 pcs
140-050-296	MC-YS001P	Magnetic Catch・Strike Plate & Screws	29.4 N	3 kgf	6 g	100 pcs	1,000 pcs
140-050-297	MC-YS002	Magnetic Catch Only	12 N	1.2 kgf	5 g	100 pcs	1,000 pcs
140-050-295	MC-YS002P	Magnetic Catch・Strike Plate & Screws	12 N	1.2 kgf	5 g	100 pcs	500 pcs

MAGNETIC CATCH

STEEL

MC84

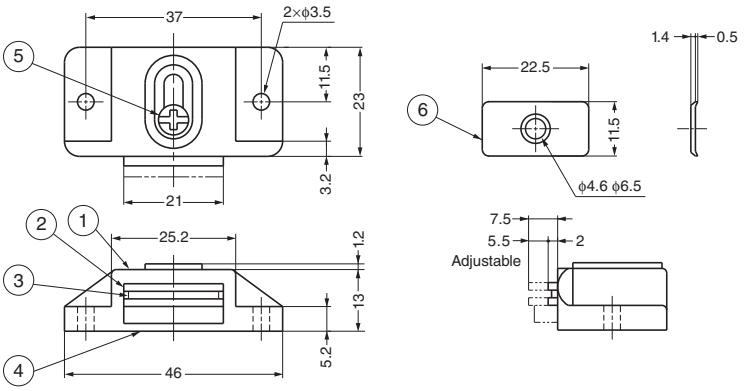


■Features

Yoke position adjustable 5.5 mm.

■Parts Included

- Pan head wood screw 3.1×13
- Countersunk head wood screw 2.7×13



No.	Part Name	Material	Finish/Colour	
			BR	BG
①	Body	ABS	Brown	Beige
②	Yoke	Steel	Bronze	Nickel
③	Magnet	Ferrite	—	—
④	Back Plate	ABS	Brown	White
⑤	Screw	Steel	Bronze	Nickel
⑥	Counter Plate	Steel	Bronze	Nickel

Item Code	Item Name	Colour	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-058-046	MC84BR	Brown	29.4 N	3 kgf	18 g	100 pcs	1,000 pcs
140-058-047	MC84BG	Beige	29.4 N	3 kgf	18 g	100 pcs	1,000 pcs

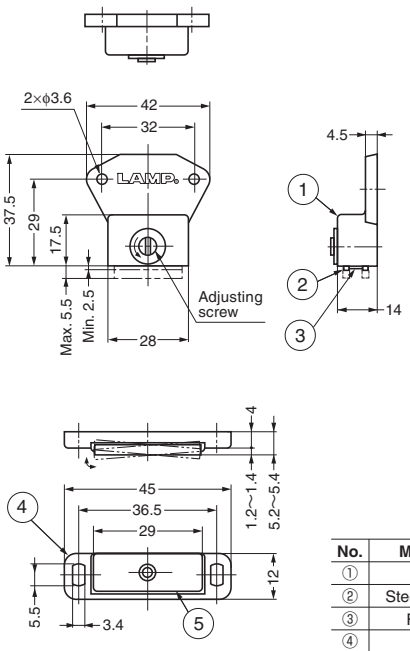
MAGNETIC CATCH

MC-7004



■Features

Yoke position adjustable 3 mm.



No.	Material	Finish/Colour
①	ABS	White/Brown
②	Steel (Yoke)	Nickel
③	Ferrite	—
④	ABS	White/Brown
⑤	Steel	Nickel

Item Code	Item Name	Colour	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-044	MC-7004W	White	19.6 N	2 kgf	27 g	100 pcs	1,000 pcs
140-050-045	MC-7004BR	Brown	19.6 N	2 kgf	27 g	100 pcs	1,000 pcs

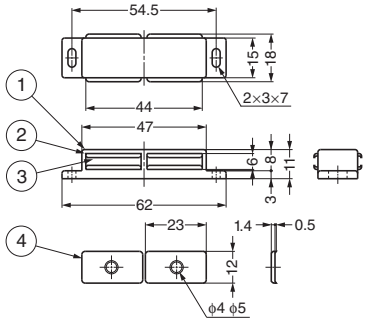
MAGNETIC CATCH

STEEL

MC-FM20W



■Parts Included
- Pan head wood screw 3.1×13 2 pcs
- Countersunk head wood screw 2.9×13 2 pcs



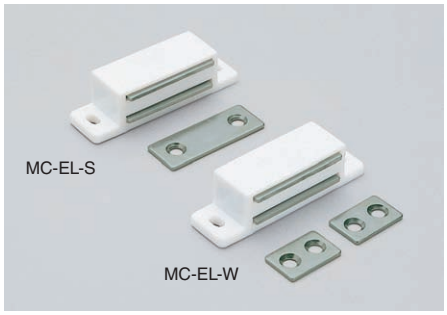
No.	Material	Finish/Colour
①	Polyethylene (PE)	Ivory
②	Steel (Yoke)	Yellow Zinc Chromate
③	Ferrite	—
④	Steel	Yellow Zinc Chromate

Item Code	Item Name	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-049	MC-FM20W	9.8 N	1 kgf	30 g	24 pcs	480 pcs

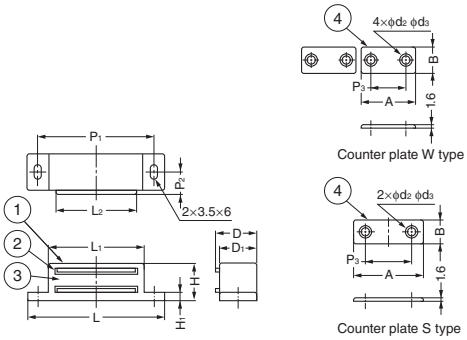
MAGNETIC CATCH

STEEL

MC-E



■Parts Included
- Pan head wood screw 3.1×13
- Countersunk head wood screw 2.9×13



No.	Material	Finish/Colour
①	Polyethylene (PE)	White
②	Steel (Yoke)	Yellow Zinc Chromate
③	Ferrite	—
④	Steel	Yellow Zinc Chromate

Item Code	Item Name	L	L1	L2	D	D1	H	H1	P1	P2	A	B	P3	d2	d3	Magnetic Force N	Magnetic Force kgf	Screw	Weight	Box	Carton
140-050-058	MC-EM-S	49.5	33	28	16	15	14	4	41.5	9	30	11	20	4.8	6.5	19.6 N	2 kgf	4 pcs	26 g	24 pcs	720 pcs
140-050-059	MC-EL-S	60	41	35	18	16	16	3.5	50	9.5	38	14	25	4.3	6.4	23.5 N	2.4 kgf	4 pcs	38 g	24 pcs	360 pcs
140-050-060	MC-EL-W	60	41	35	18	16	16	3.5	50	9.5	20	13	10	4.4	6.4	23.5 N	2.4 kgf	6 pcs	38 g	24 pcs	360 pcs

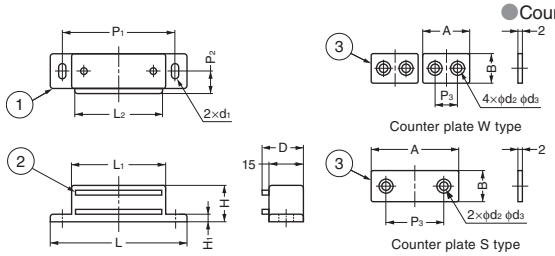
MAGNETIC CATCH

STEEL

MC-K



■Parts Included
- Pan head wood screw 3.1×13
- Countersunk head wood screw 2.9×13



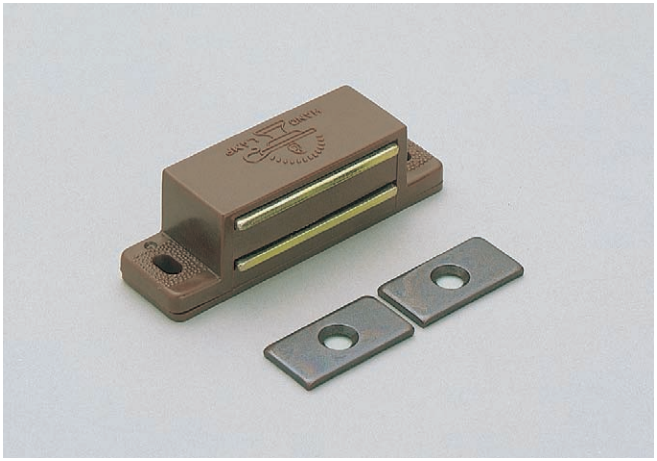
No.	Material	Finish/Colour
①	PBT	White
②	Steel (Yoke)	Clear Zinc Chromate
③	Steel	Chrome

Item Code	Item Name	L	L1	L2	D	H	H1	P1	P2	d1	A	B	P3	d2	d3	Magnetic Force N	Magnetic Force kgf	Screw	Weight	Box	Carton
140-050-290	MC-KM-S	50.5	33	30	17	12	3	42	10	3.2×6.2	30	11.5	20	4.2	6.7	23.5 N	2.4 kgf	4 pcs	26 g	12 pcs	720 pcs
140-050-291	MC-KL-S	60	42	38	18	16	3.2	50	10.5	3.2×6	38	14	25	4.3	6.4	27.4 N	2.8 kgf	4 pcs	45 g	12 pcs	360 pcs
140-050-292	MC-KL-W	60	42	38	18	16	3.2	50	10.5	3.2×6	20	13	10	4.3	6.4	27.4 N	2.8 kgf	6 pcs	45 g	12 pcs	360 pcs

MAGNETIC CATCH

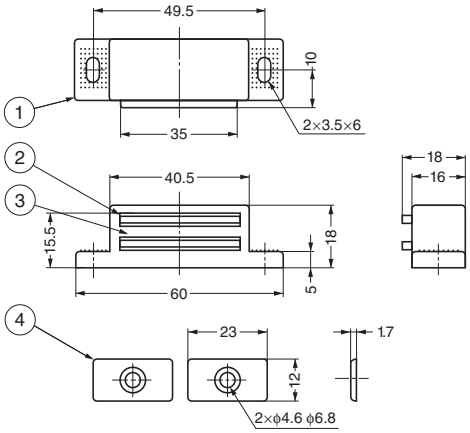
STEEL

MC-EA



■Parts Included

- Pan head tapping screw 3.5×15
- Countersunk head wood screw 2.9×13



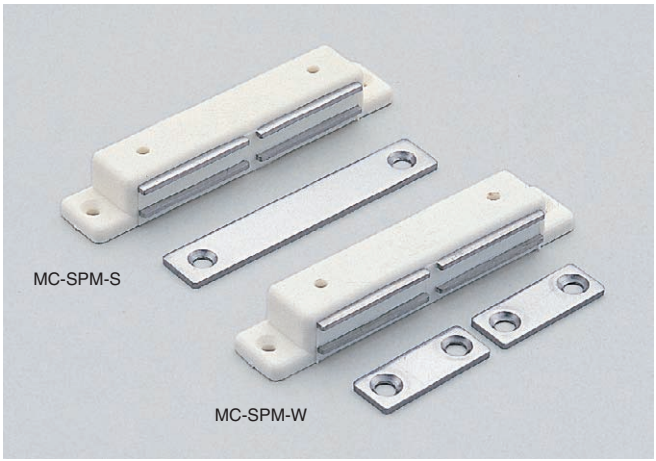
No.	Material	Finish/Colour
①	Polyethylene (PE)	Brown
②	Steel (Yoke)	Yellow Zinc Chromate
③	Ferrite	—
④	Steel	Bronze

Item Code	Item Name	Magnetic Force N	Magnetic Force kgf	Screw	Weight	Box	Carton
140-050-061	MC-EA	19.6 N	2 kgf	4 pcs	40 g	24 pcs	360 pcs

MAGNETIC CATCH

STAINLESS

MC-SP

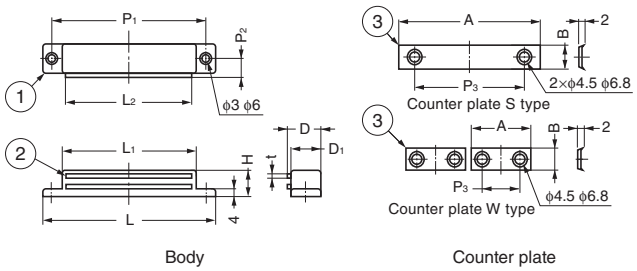


■Features

Sponge inside reduces noise when the door closed.

■Parts Included

Countersunk head wood screw 2.7×1.6 (SUS)



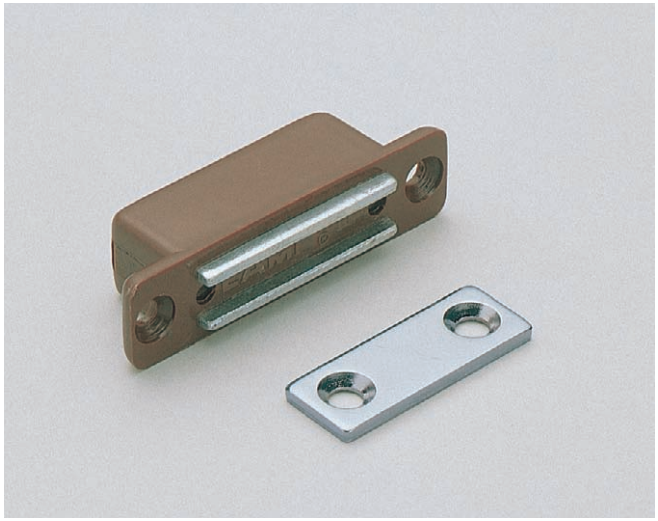
No.	Material	Finish/Colour
①	PBT	White
②	Stainless Steel (SUS430)	—
③	Stainless Steel (SUS430)	—

Item Code	Item Name	L	L1	L2	D	D1	H	P1	P2	t	A	B	P3	Magnetic Force		Screw	Weight	Box	Carton
140-050-070	MC-SPM-S	86	68.4	63	17	15	13	77	9.5	1.5	70	12	57	47.0 N	4.8 kgf	4 pcs	57 g	12 pcs	360 pcs
140-050-071	MC-SPM-W	86	68.4	63	17	15	13	77	9.5	1.5	30	11	20	47.0 N	4.8 kgf	6 pcs	53.5 g	12 pcs	360 pcs
140-050-072	MC-SPL-S	106	85.6	80	20.5	18	16	94	11.5	2	79	14	65	54.9 N	5.6 kgf	4 pcs	100 g	6 pcs	180 pcs
140-050-073	MC-SPL-W	106	85.6	80	20.5	18	16	94	11.5	2	38	14	25	54.9 N	5.6 kgf	6 pcs	100 g	6 pcs	180 pcs

MAGNETIC CATCH

STEEL

MC-H

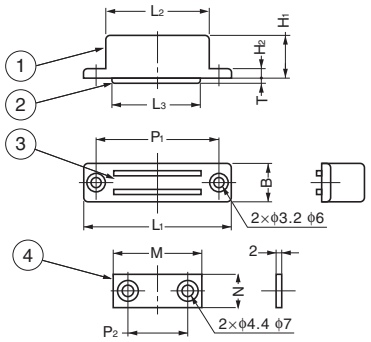


■Features

Sponge inside reduces noise when the door closed.

■Parts Included

Countersunk head wood screw 2.9×13 4 pcs

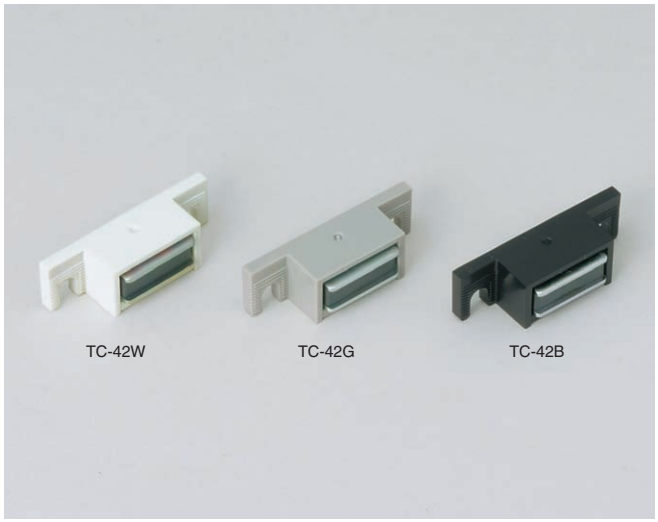


No.	Material	Finish/Colour
①	Polyamide (PA)	Brown
②	Steel (Yoke)	Yellow Zinc Chromate
③	Ferrite	—
④	Steel	Chrome

Item Code	Item Name	L_1	L_2	L_3	B	H_1	H_2	T	P_1	M	N	P_2	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-052	MC-HM	50	35	30	13	14.5	3.2	2	41.7	30	11.5	20	23.5	2.4 kgf	27 g	12 pcs	360 pcs
140-051-111	MC-HL	60	42	38	15.5	17	4.3	2.5	50.8	38	14	25	27.4	2.8 kgf	47 g	12 pcs	180 pcs

MAGNETIC CATCH

TC-42

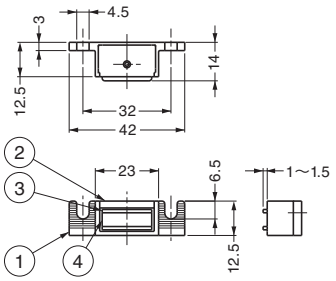


■Features

Efficient installation: can be installed just putting the body from above the pre-installed screws.

■Sold Separately

Counter plate SP0207 (P.273)



No.	Part Name	Material	Finish/Colour
①	Body	ABS	White, Black, Grey
②	Cover	ABS	White, Black, Grey
③	Yoke	Steel	Yellow Zinc Chromate
④	Magnet	Ferrite	—

■Body

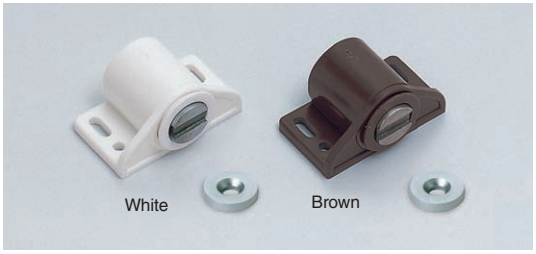
Item Code	Item Name	Colour	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-350	TC-42W	White	34.3 N	3.5 kgf	10 g	80 pcs	1,600 pcs
140-400-003	TC-42B	Black	34.3 N	3.5 kgf	10 g	80 pcs	1,600 pcs
140-050-333	TC-42G	Grey	34.3 N	3.5 kgf	10 g	80 pcs	1,600 pcs

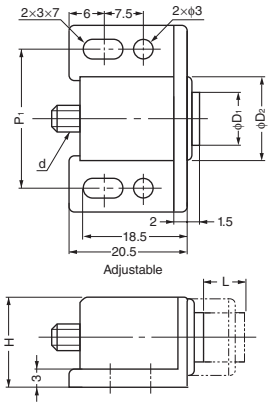
■Counter Plate (Sold Separately)

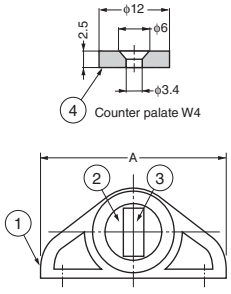
Item Code	Item Name
140-050-323	SP0207

MAGNETIC CATCH

MS







■Parts Included

Counter plate W4 (P.273)

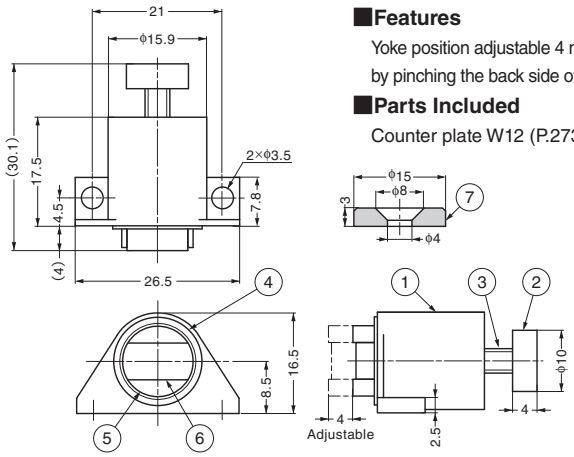
No.	Material	Finish/Colour
①	Plastic	White, Brown
②	Steel (Yoke)	Plain
③	Ferrite	—
④	Steel	Yellow Zinc Chromate

Item Code	Item Name	Colour	A	P_1	D_1	D_2	d	H	L	Magnetic Force N	Magnetic Force kgf	Weight	Carton
140-050-506	MS4WP	White	33	25.5	9	14	M4	16.5	6	23.5 N	2.4 kgf	11.7 g	1,000 pcs
140-050-507	MS4BRP	Brown	33	25.5	9	14	M4	16.5	6	23.5 N	2.4 kgf	11.7 g	1,000 pcs
140-050-508	MS6WP	White	36.5	28	11	17	M5	19	3	39.2 N	4 kgf	17.7 g	1,000 pcs
140-050-509	MS6BRP	Brown	36.5	28	11	17	M5	19	3	39.2 N	4 kgf	17.7 g	1,000 pcs

MAGNETIC CATCH

MC-125





■Features

Yoke position adjustable 4 mm back and forward by pinching the back side of the body.

■Parts Included

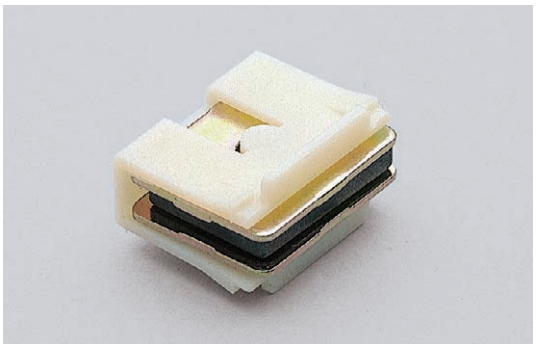
Counter plate W12 (P.273)

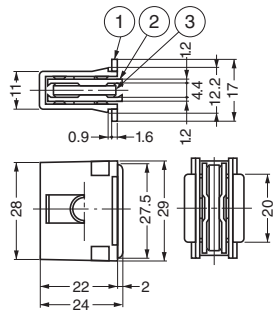
No.	Part Name	Material	Finish/Colour
①	Body	ABS	White, Black
②	Knob	Brass	Nickel
③	Bolt	ABS	White, Black
④	Tube	Brass	Nickel
⑤	Yoke	Steel	Clear Zinc Chromate
⑥	Magnet	Ferrite	—
⑦	Counter Plate	Steel	Nickel

Item Code	Item Name	Colour	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-021-954	MC-125WTP	White	24.5 N	2.5 kgf	14.5 g	20 pcs	1,000 pcs
140-021-955	MC-125BLP	Black	24.5 N	2.5 kgf	14.5 g	20 pcs	1,000 pcs

MAGNETIC CATCH (SNAP-IN TYPE)

MC-SS30





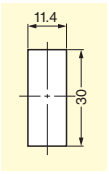
■Features

Snap-in magnetic catch for sheet metal applications.
Panel thickness: 0.8 mm

■Sold Separately

Counter plate (SUS) MC-JM49 (P.273)

■ Cut Out Dimensions



■Body

Item Code	Item Name	Door Thickness	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-036	MC-SS30	0.8	29.4 N	3 kgf	22 g	60 pcs	600 pcs

No.	Material	Finish/Colour
①	ABS	Ivory
②	Steel (Yoke)	Yellow Zinc Chromate
③	Ferrite	—

■Counter Plate (Sold Separately)

Item Code	Item Name
140-050-149	MC-JM49

MAGNETIC CATCH (SNAP-IN TYPE) MC-FS

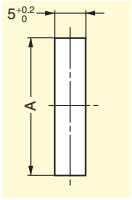


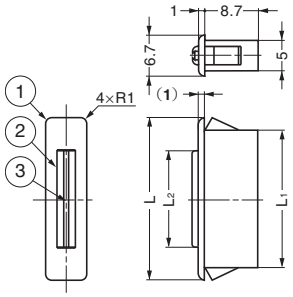
■Features

- Snap-in magnetic catch for sheet metal applications.
- Thin body for tight spaces.

■Cut Out Dimensions

Item Name	Door Thickness	A
MC-FS-2	0.8	$22.65^{+0.15}_{0}$
	1.0	$22.8^{+0.1}_{0}$
	1.2	$22.9^{+0.1}_{0}$
MC-FS-4	0.8	$39.9^{+0.2}_{0}$
	1.0	$40.5^{+0.2}_{0}$
	1.2	$41.8^{+0.2}_{0}$

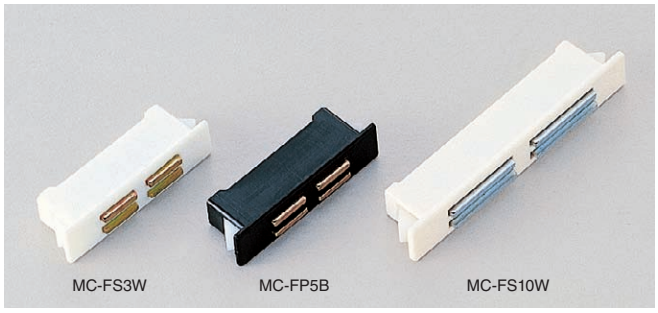




No.	Part Name	Material	Finish/Colour
①	Body	ABS	White
②	Yoke	Steel	Clear Zinc Chromate
③	Magnet	Ferrite, Neodymium	—

Item Code	Item Name	Material	L	L_1	L_2	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-013-016	MC-FS-2 W	Ferrite	26.5	22.4	16	15 N	1.5 kgf	3.5 g	400 pcs	4,000 pcs
140-013-017	MC-FS-2SW	Neodymium	26.5	22.4	16	34 N	3.5 kgf	3.5 g	400 pcs	4,000 pcs
140-013-015	MC-FS-4 W	Ferrite	45	39.6	30.3	25 N	2.5 kgf	5.8 g	200 pcs	2,000 pcs
140-013-014	MC-FS-4SW	Neodymium	45	39.6	30.3	69 N	7 kgf	5.8 g	200 pcs	2,000 pcs

MAGNETIC CATCH (SNAP-IN TYPE) MC-FS, MC-FP5, MC-FB10

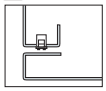


■Features

Snap-in magnetic catch for sheet metal applications.

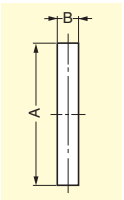
No.	Part Name	Material	Finish/Colour
①	Body	ABS	White, Black
②	Yoke	Steel	Yellow Zinc Chromate, Clear Zinc Chromate (MC-FB10)
③	Magnet	Ferrite	—
④	Spring	Polyacetal (POM)	Natural, White (MC-FS10, MC-FB10)

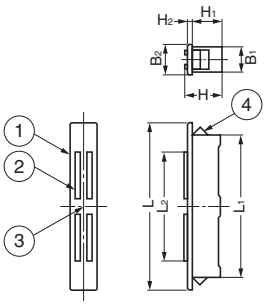
■Installation



■Cut Out Dimensions

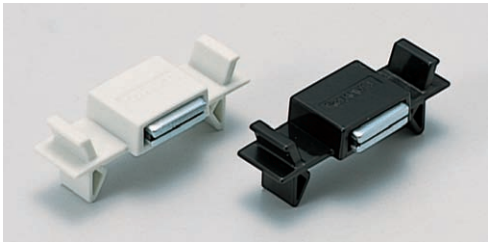
Door Thickness	MC-FS3		MC-FP5		MC-FS10		MC-FB10	
	A	B	A	B	A	B	A	B
0.5	22.5	8.3	—	—	—	—	54.9	10
0.8	—	—	34.1	8.2	55	8.2	—	—
1.0	—	—	34.1	8.2	55	8.2	56.1	10
1.2	—	—	34.5	8.2	55.5	8.2	—	—
1.6	—	—	35	8.2	56	8.2	57.5	10
2.0	—	—	36.5	8.2	56.5	8.2	58.5	10

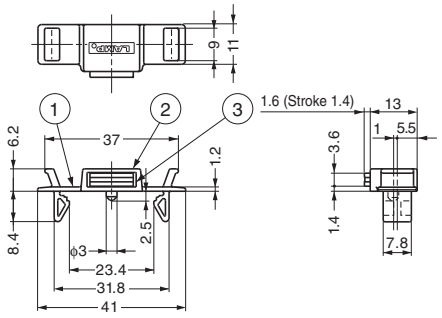




Item Code	Item Name	Colour	L	L_1	L_2	B_2	B_1	H	H_1	H_2	Magnetic Force		Weight	Box	Carton
140-050-005	MC-FS3W	White	24.2	22.4	15	9.6	8.2	12.3	10.9	0.9	12.7 N	1.3 kgf	5 g	60 pcs	2,160 pcs
140-050-086	MC-FP5W	White	40	33.9	21.6	10	8	13.5	11.2	1.2	21.6 N	2.2 kgf	9 g	200 pcs	2,000 pcs
140-050-293	MC-FS10W	White	64	54.5	43	10	8	14	11.5	1.5	44.1 N	4.5 kgf	20 g	50 pcs	1,000 pcs
140-055-099	MC-FB10	White	64	54.5	43	10.5	9.7	14	11.5	1.5	54.9 N	5.6 kgf	25 g	500 pcs	—
140-050-006	MC-FS3B	Black	24.2	22.4	15	9.6	8.2	12.3	10.9	0.9	12.7 N	1.3 kgf	5 g	60 pcs	2,160 pcs
140-050-087	MC-FP5B	Black	40	33.9	21.6	10	8	13.5	11.2	1.2	21.6 N	2.2 kgf	9 g	200 pcs	2,000 pcs
140-050-294	MC-FS10B	Black	64	54.5	43	10	8	14	11.5	1.5	44.1 N	4.5 kgf	20 g	50 pcs	1,000 pcs

MAGNETIC CATCH (SNAP-IN TYPE) MC-YSW

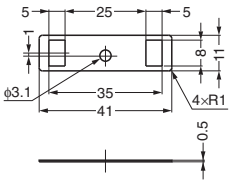




No.	Material		Finish/Colour	
	MC-YSW01	MC-YSW02	MC-YSW01	MC-YSW02
①	Polyacetal (POM)		White, Black	
②	Steel		Clear Zinc Chromate	Yellow Zinc Chromate
③	Ferrite	Neodymium	–	Nickel



Spacer: YS-P05



■Features

- Snap-in magnetic catch for sheet metal applications.
- Thin body for tight spaces.
- Small body with strong magnetic force (MC-YSW02).
- Weaker magnetic force: MC-YSW01
- For 1 mm and 2 mm door, please use the spacer sold separately (YS-P05).

■Remarks

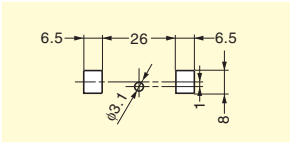
Max. temperature for neodymium magnet: 80˚C

■Sold Separately

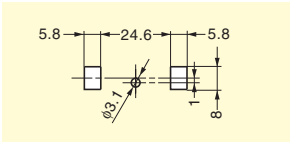
Spacer: YS-P05

■Cut Out Dimensions

For 1 mm door (Need YS-P05) and 1.6 mm door (No need YS-P05)



For 2 mm door (Need YS-P05) and 2.6 mm door (No need YS-P05)



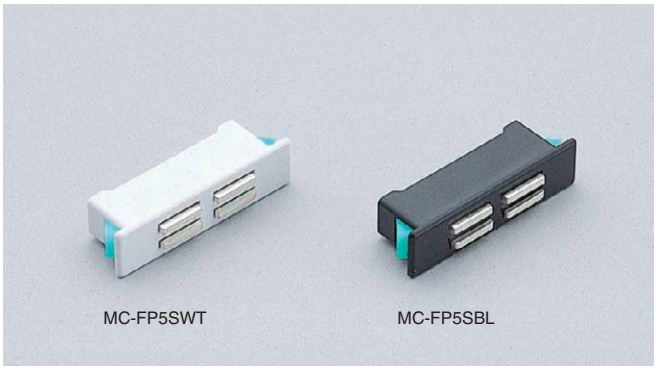
■Body

Item Code	Item Name	Colour	Magnet	Magnetic Force		Weight	Box	Carton
140-050-001	MC-YSW01W	White	Ferrite	12 N	1.2 kgf	5 g	100 pcs	1,000 pcs
140-050-028	MC-YSW01B	Black	Ferrite	12 N	1.2 kgf	5 g	100 pcs	1,000 pcs
140-050-002	MC-YSW02W	White	Neodymium	29 N	3 kgf	5.5 g	100 pcs	1,000 pcs
140-050-029	MC-YSW02B	Black	Neodymium	29 N	3 kgf	5.5 g	100 pcs	1,000 pcs

■Spacer (Sold Separately)

Item Code	Item Name	Material	Colour	Weight	Box
140-050-003	YS-P05	Polypropylene (PP)	Natural	0.16 g	1,000 pcs

MAGNETIC CATCH (SNAP-IN TYPE) MC-FP5S



■Features

Compact size but strong magnetic force.

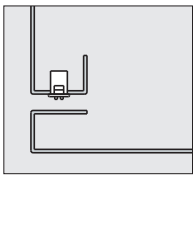
■Remarks

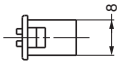
Max. temperature: 80˚C

■Sold Separately

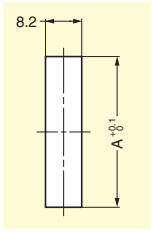
- Counter plate (SUS): MC-JM49 (P.273)
- Counter plate SP0207 (P.273)

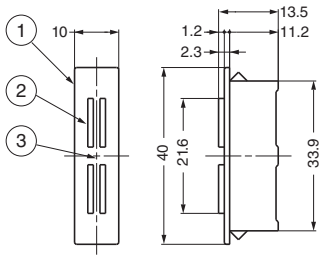
■Installation





■Cut Out Dimensions





Door Thickness	A
0.8	34.1
1	34.1
1.2	34.5
1.4	34.5
1.6	35
1.8	35.5
2	36.5

No.	Part Name	Material	Finish/Colour
①	Body	ABS	White/Black
②	Yoke	Steel	Yellow Zinc Chromate
③	Magnet	Neodymium	–

Item Code	Item Name	Colour	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-268	MC-FP5SWT	White	44.1 N	4.5 kgf	9 g	200 pcs	2,000 pcs
140-050-269	MC-FP5SBL	Black	44.1 N	4.5 kgf	9 g	200 pcs	2,000 pcs

MAGNETIC CATCH (SNAP-IN TYPE) MC-JMF54





■Features

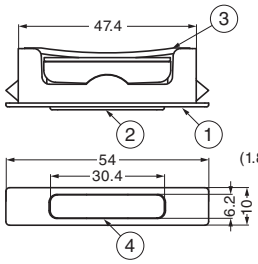
- Hermetically sealed, ideal for high corrosion environments.
- Snap-in magnetic catch for sheet metal application.
- Magnetic face can pivot for better contact with counter plate.
- Suitable for steel cabinet, kitchen equipment, bath room, etc.

■Remarks

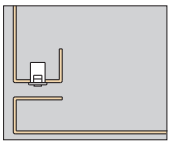
Max. temperature: 80˚C

■Sold Separately

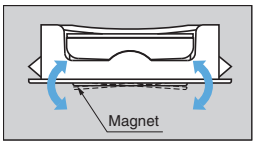
Counter plate MC-JMP45 (P.272), AS-68, MC-JM49 (P.273)



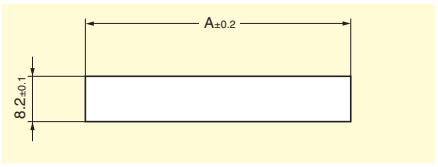
■Installation



■Movement of Magnet



■Cut Out Dimensions



Door Thickness	A
0.7	48
0.8	48
1.0	48
1.2	48
1.6	49
2.0	50

No.	Part Name	Material	Finish/Colour
①	Body	Polypropylene (PP)	Black/White
②	Body	Polypropylene (PP)	Black/White
③	Spring	Polyacetal (POM)	White
④	Magnet	Neodymium	Nickel

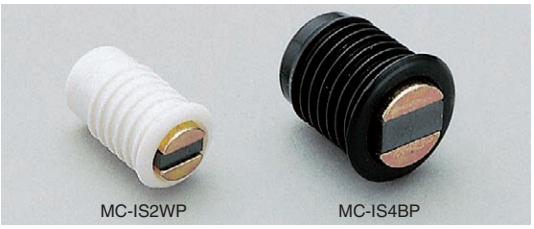
■Body

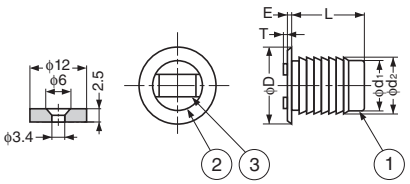
Item Code	Item Name	Colour	Magnetic Force		Weight	Box
140-026-601	MC-JMF54BL	Black	25 N	2.6 kgf	13 g	100 pcs
140-026-602	MC-JMF54WT	White	25 N	2.6 kgf	13 g	100 pcs

■Counter Plate (Sold Separately)

Item Code	Item Name	Page
140-050-122	MC-JMP45WT	P.272
140-029-241	MC-JMP45BL	P.272
140-050-138	AS-68	P.273
140-050-149	MC-JM49	P.273

MAGNETIC CATCH MC-IS





■Parts Included

Counter plate W4 (P.273)

No.	Material	Finish/Colour
①	Polyamide (PA)	White, Black
②	Steel (Yoke)	Yellow Zinc Chromate
③	Ferrite	—

Item Code	Item Name	Colour	D	L	E	T	d_1	d_2	Magnetic Force		Weight	Box	Carton
140-050-515	MC-IS2WP	White	10	13.8	1	0.7	8	8.6	9.8 N	1.0 kgf	4.7 g	200 pcs	5,000 pcs
140-050-516	MC-IS4WP	White	14	14	0.7	1.2	11	12	24.5 N	2.5 kgf	7.7 g	100 pcs	3,000 pcs
140-050-517	MC-IS2BP	Black	10	13.8	1	0.7	8	8.6	9.8 N	1.0 kgf	4.7 g	200 pcs	5,000 pcs
140-050-518	MC-IS4BP	Black	14	14	0.7	1.2	11	12	24.5 N	2.5 kgf	7.7 g	100 pcs	3,000 pcs

MAGNETIC CATCH MC-IS4F



■Features

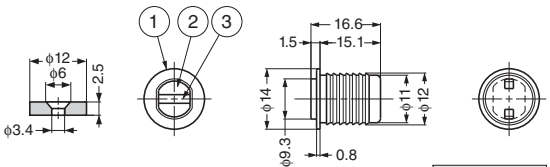
Movable magnet yoke allows better contact with counter plate and ensures full magnetic force.

■Remarks

Do not use glue.

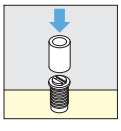
■Parts Included

Counter plate W4 (P.273)



Item Code	Item Name	Colour	Magnetic Force		Weight	Box	Carton
140-050-519	MC-IS4FWTP	White	24.5 N	2.5 kgf	7.7 g	100 pcs	1,000 pcs
140-050-520	MC-IS4FBLP	Black	24.5 N	2.5 kgf	7.7 g	100 pcs	1,000 pcs

No.	Material	Finish/Colour
①	Polyamide (PA)	White, Black
②	Steel (Yoke)	Yellow Zinc Chromate
③	Ferrite	—



MAGNETIC CATCH

MC-YN001, MC-YN001P



MC-YN001 (Magnetic catch)



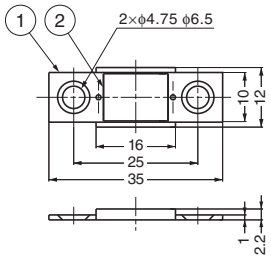
MC-YN001P (Magnetic catch, counter plate and screw)

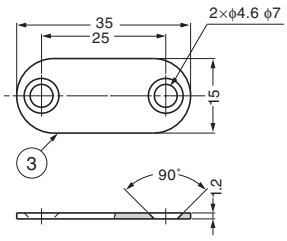
■Features
- Ultra thin magnetic catch ideal for tight space.
- Strong magnetic force.

■Remarks
Max. temperature: 80˚C

■Parts Included (MC-YN001P)
Countersunk head tapping screw 3×14

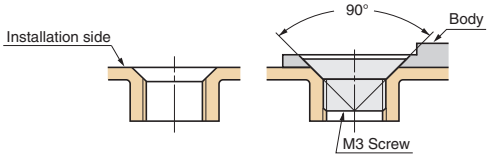
■Recommended Screw
Countersunk head screw M3 or Countersunk head wood screw nominal 3.1





Counter plate: MC-YN001U (P.273)

■Cut Out Dimensions and Installation Example



No.	Part Name	Material	Finish
①	Body	Steel	Nickel
②	Magnet	Neodymium	Nickel
③	Counter Plate	Steel	Nickel

Item Code	Item Name	Type	Magnetic Force		Weight	Box	Carton
140-050-257	MC-YN001	Magnetic catch only	26.5 N	2.7 kgf	4.0 g	100 pcs	2,000 pcs
140-050-000	MC-YN001P	Magnetic catch・Strike Plate & Screws	26.5 N	2.7 kgf	7.5 g	100 pcs	2,000 pcs

MAGNETIC CATCH

MC-YN015S, MC-YN015SP



MC-YN015S (Magnetic catch)



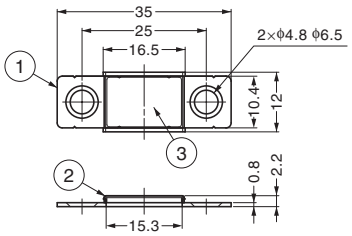
MC-YN015SP (Magnetic catch, counter plate and screws)

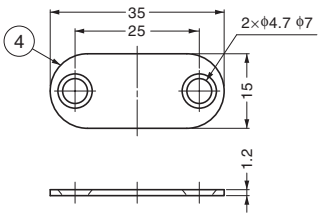
■Features
- Ultra thin magnetic catch ideal for tight space.
- Corrosion resistance.
- Strong magnetic force.

■Remarks
Max. temperature: 80˚C

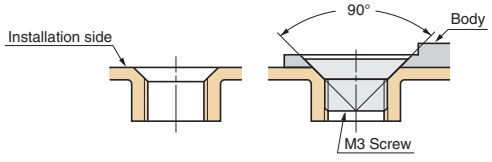
■Parts Included (MC-YN015SP)
Countersunk head tapping screw 3×14

■Recommended Screw
Countersunk head screw M3 or Countersunk head wood screw nominal 3.1





■Cut Out Dimensions and Installation Example

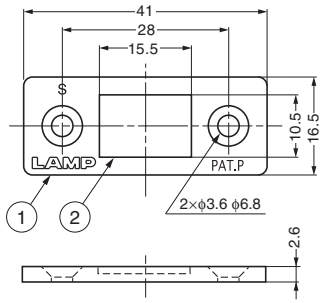


No.	Part Name	Material	Finish
①	Body	Stainless Steel (Equivalent)	Polished
②	Cover	Stainless Steel (SUS304)	Plain
③	Magnet	Neodymium	Plastic Coating
④	Counter Plate	Stainless Steel (Equivalent)	Polished

Item Code	Item Name	Type	Magnetic Force		Weight	Box	Carton
140-020-672	MC-YN015S	Magnetic catch only	22.5 N	2.3 kgf	3.6 g	100 pcs	2,000 pcs
140-020-673	MC-YN015SP	Magnetic catch・Strike Plate & Screws	22.5 N	2.3 kgf	7.3 g	100 pcs	2,000 pcs

MAGNETIC CATCH MC-158





■Features

Ultra thin magnetic catch ideal for tight space.

Similar item: MC-159-8 (Strong magnetic, P.263), MC-159-SUS (P.263)

■Remarks

Max. temperature: 80˚C

■Recommended Screw

Countersunk head wood screw or Countersunk head screw M3

■Sold Separately

Counter plate: MC-YN001U (P.273)

■Counter Plate (Sold Separately)

Item Code	Item Name	Page
140-059-555	MC-YN001U	P.273

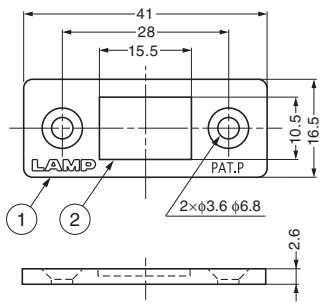
No.	Part Name	Material	Finish
①	Body	Steel	Nickel
②	Magnet	Neodymium	Nickel

■Body

Item Code	Item Name	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-014	MC-158	14.7 N	1.5 kgf	12 g	200 pcs	1,000 pcs

MAGNETIC CATCH MC-159





■Features

●Ultra thin magnetic catch ideal for tight space.

●Strong magnetic force.

Similar item: MC-159-8 (Strong magnetic, P.263), MC-159-SUS (P.263)

■Remarks

Max. temperature: 80˚C

■Recommended Screw

Countersunk head wood screw or Countersunk head screw M3

■Sold Separately

Counter plate: MC-YN001U (P.273)

■Counter Plate (Sold Separately)

Item Code	Item Name	Page
140-059-555	MC-YN001U	P.273

No.	Part Name	Material	Finish
①	Body	Steel	Nickel
②	Magnet	Neodymium	Nickel

■Body

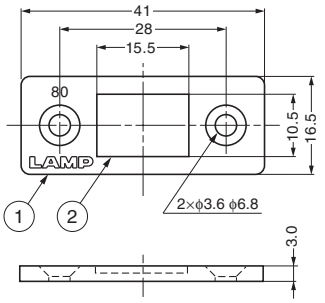
Item Code	Item Name	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-058-061	MC-159	39 N	4 kgf	12 g	200 pcs	1,000 pcs

MAGNETIC CATCH

MC-159-8

Strong Force
Ultra Thin





■Features

Ultra thin and extra strong magnetic force.

Similar items (different magnetic force): MC-158, MC-159 (P.262), MC-159-SUS (below)

■Remarks

Max. temperature: 80˚C

■Recommended Screw

Flat head screw M3 or Countersunk head wood screw 3.1

■Sold Separately

Counter plate MC-YN001U (P.273)

No.	Part Name	Material	Finish
①	Body	Steel	Nickel
②	Magnet	Neodymium	Nickel

■Body

Item Code	Item Name	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-026-510	MC-159-8	78.4 N	8 kgf	14 g	200 pcs	1,000 pcs

■Counter Plate (Sold Separately)

Item Code	Item Name	Page
140-059-555	MC-YN001U	P.273

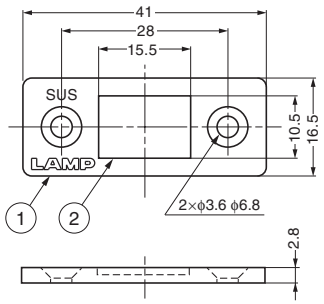
MAGNETIC CATCH

MC-159-SUS

STAINLESS 430 STEEL

Ultra Thin
Rust Prevention





■Features

- Anti rust: made of stainless steel and coated with acrylic resin.
- Ultra thin and extra strong magnetic force.

Similar items (different magnetic force): MC-158, MC-159 (P.262), MC-159-8 (above)

■Remarks

Max. temperature: 80˚C

■Recommended Screw

Flat head screw M3 or Countersunk head wood screw 3.1

■Sold Separately

Counter plate (made of SUS) MC-JM49, AS-68 (P.273)

No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS430)	Mirror
②	Magnet	Neodymium	Acrylic Coating

■Body

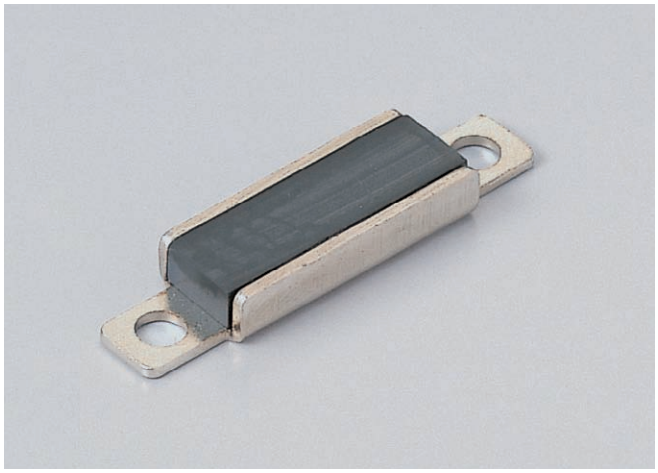
Item Code	Item Name	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-026-511	MC-159-SUS	49 N	5 kgf	13 g	200 pcs	1,000 pcs

■Counter Plate (Sold Separately)

Item Code	Item Name	Page
140-059-555	MC-YN001U	P.273

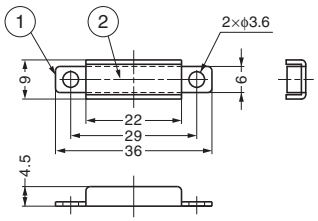
MAGNETIC CATCH

MC-YN003



■Features

Thin magnetic catch ideal for tight spaces.



No.	Part Name	Material	Finish
①	Body	Steel	Nickel
②	Magnet	Ferrite	–

Item Code	Item Name	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-059-540	MC-YN003	16.6 N	1.7 kgf	5 g	500 pcs	2,500 pcs

MAGNETIC CATCH

MC-YC-06



■Features

- Strong die casted body.
- Small body with strong magnetic force.
- Can be installed vertically or horizontally.

Similar item: MC-YS (P.252)

■Remarks

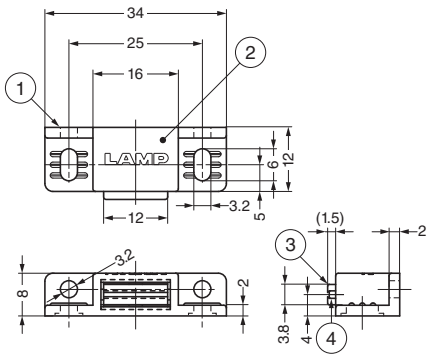
Max. temperature: 80˚C

■Sold Separately

Counter plate MC-YN001U (P.273)

■Recommended Screw

M3 Pan head screw



No.	Part Name	Material	Finish
①	Body	Zinc Alloy (ZDC)	Nickel
②	Case Bracket	Stainless Steel (SUS304)	–
③	Yoke	Steel	Clear Zinc Chromate
④	Magnet	Neodymium	Nickel

Item Code	Item Name	Magnetic Force		Weight	Box	Carton
140-028-432	MC-YC-06	44.1 N	4.5 kgf	12 g	100 pcs	1,000 pcs

■Counter Plate (Sold Separately)

Item Code	Item Name	Page
140-059-555	MC-YN001U	P.273

MAGNETIC CATCH

STAINLESS 430 STEEL

MC-YN005



■Features

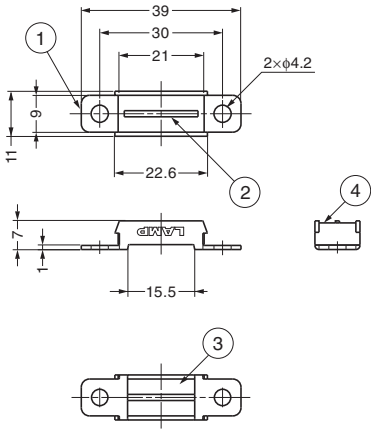
- Corrosion resistance.
- Thin magnetic catch ideal for tight spaces.
- Small body with strong magnetic force.

■Remarks

Max. temperature for neodymium magnet type: 80℃

■Sold Separately

Counter plate (SUS) MC-JM49 (P.273)



No.	Part Name	Material		Finish	
		MC-YN005	MC-YN005-N	MC-YN005	MC-YN005-N
①	Yoke	Stainless Steel (SUS430)	Stainless Steel (SUS430)	Plain	Mirror
②	Yoke	Stainless Steel (SUS430)	Stainless Steel (SUS430)	Plain	Polished
③	Magnet	Ferrite	Neodymium	Plain	Nickel
④	Cover	Stainless Steel (SUS304)	Stainless Steel (SUS304)	Plain	Plain

■Counter Plate (Sold Separately)

Item Code	Item Name	Page
140-050-149	MC-JM49	P.273

■Body

Item Code	Item Name	Magnet	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-059-558	MC-YN005	Ferrite	29.4 N	3 kgf	9 g	200 pcs	1,000 pcs
140-026-512	MC-YN005-N	Neodymium	58.8 N	6 kgf	10 g	200 pcs	1,000 pcs

MAGNETIC CATCH

STAINLESS 430 STEEL

MC-YN005HP

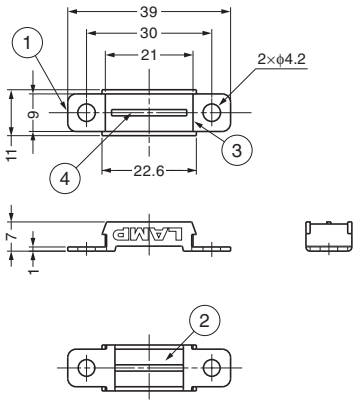


■Features

- Suitable for high temperature environments up to 250℃.
- Corrosion resistance.
- Thin magnetic catch ideal for tight spaces.
- Small body with strong magnetic force.

■Sold Separately

Counter plate (SUS) MC-JM49 (P.273)



No.	Part Name	Material	Finish
①	Yoke	Stainless Steel (SUS430)	Mirror
②	Magnet	Samarium Cobalt	Plain
③	Cover	Stainless Steel (SUS304)	Plain
④	Yoke	Stainless Steel (SUS430)	Polished

■Counter Plate (Sold Separately)

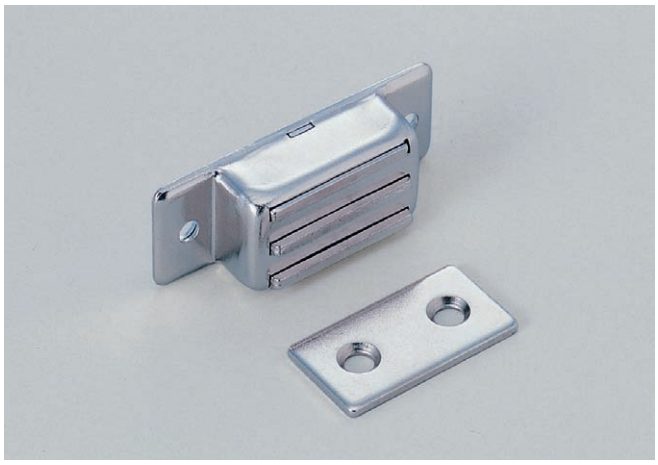
Item Code	Item Name	Page
140-050-149	MC-JM49	P.273

■Body

Item Code	Item Name	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-012-617	MC-YN005HP-20	20 N	2 kgf	11 g	200 pcs	1,000 pcs
140-012-625	MC-YN005HP-50	50 N	5.1 kgf	11 g	200 pcs	1,000 pcs

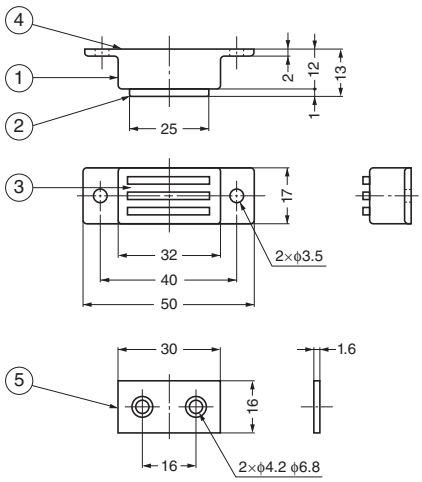
MAGNETIC CATCH

MC0083



■Features

Strong magnetic force.



No.	Part Name	Material	Finish
①	Body	Brass	Nickel
②	Yoke	Steel	Nickel
③	Magnet	Ferrite	—
④	Cover	Aluminium Alloy	Anodized
⑤	Counter Plate	Steel	Nickel

Item Code	Item Name	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-058-068	MC0083	68.6 N	7.0 kgf	32 g	40 pcs	400 pcs

MAGNETIC CATCH

MC0083-N



■Features

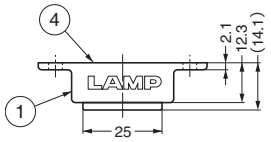
- Strong magnetic force.
  Similar item: MC0083HP (P.267)
- Suitable for kitchen, experimental equipment, etc.

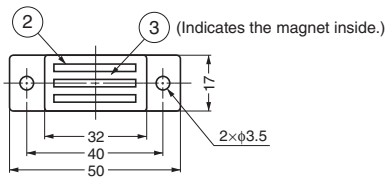
■Remarks

Max. temperature: 80˚C

■Sold Separately

Counter plate AS-68 (P.273)





No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Mirror
②	Yoke	Steel	Nickel
③	Magnet	Neodymium	Nickel
④	Cover	Stainless Steel (SUS304)	Plain

■Counter Plate (Sold Separately)

Item Code	Item Name	Page
140-050-138	AS-68	P.273

■Body

Item Code	Item Name	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-026-513	MC0083-N	137 N	14 kgf	41 g	40 pcs	400 pcs

MAGNETIC CATCH

STAINLESS 430 STEEL

MC0083HP



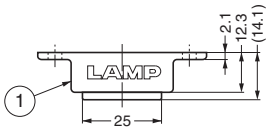
■Features

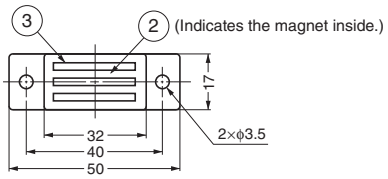
- Suitable for high temperature environments up to 250℃. Small with strong magnetic force.
- Corrosion and heat resistance: both magnets and yokes are made of stainless steel.

Similar item: MC-YN0083N (P.266)

■Sold Separately

Counter plate (SUS) AS-68 (P.273)





■Body

Item Code	Item Name	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-012-729	MC0083HP- 70	70 N	7.1 kgf	40 g	40 pcs	400 pcs
140-012-613	MC0083HP-140	140 N	14.3 kgf	40 g	40 pcs	400 pcs

■Counter Plate (Sold Separately)

Item Code	Item Name	Page
140-050-138	AS-68	P.273

No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Mirror
②	Magnet	Samarium Cobalt	Plain
③	Yoke	Stainless Steel (SUS430)	Mirror

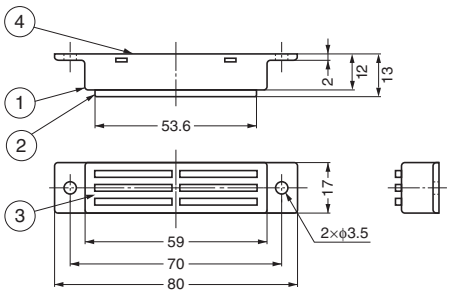
MAGNETIC CATCH

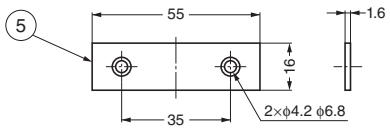
MC0083D



■Features

Strong magnetic force.



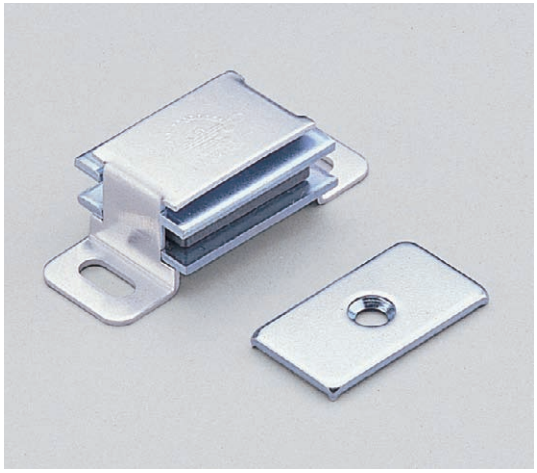


No.	Part Name	Material	Finish
①	Body	Brass	Nickel
②	Yoke	Steel	Nickel
③	Magnet	Ferrite	—
④	Cover	Aluminium Alloy	Anodized
⑤	Strike	Steel	Nickel

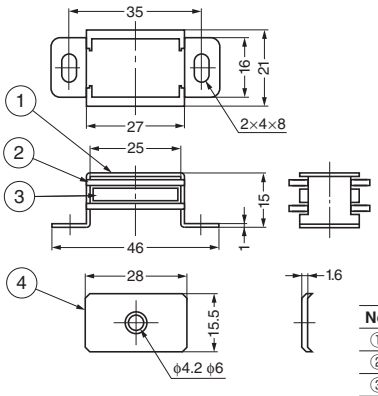
Item Code	Item Name	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-058-067	MC0083D	98 N	10 kgf	63 g	20 pcs	200 pcs

MAGNETIC CATCH

STEEL **MC-S88**



■Parts Included
- Round head wood screw 2.7×13 2 pcs
- Countersunk head wood screw 2.9×13 1 pc

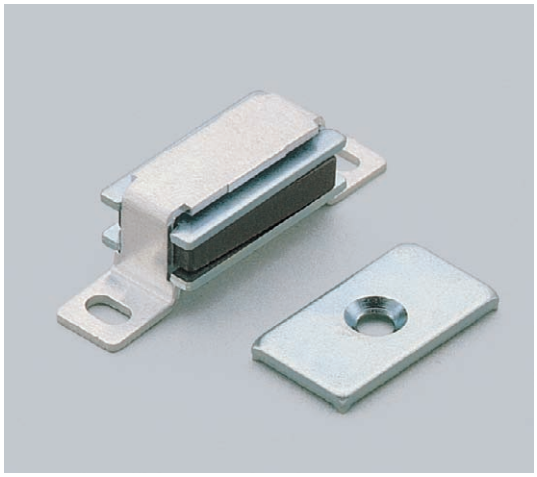


No.	Material	Finish
①	Aluminium Alloy	Plain
②	Steel (Yoke)	Clear Zinc Chromate
③	Ferrite	–
④	Steel	Clear Zinc Chromate

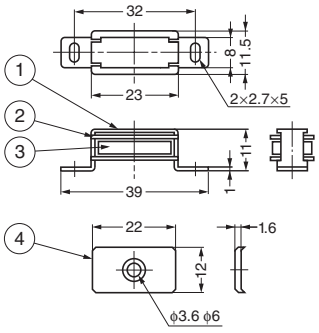
Item Code	Item Name	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-032	MC-S88	14.7 N	1.5 kgf	28.5 g	24 pcs	720 pcs

MAGNETIC CATCH

STEEL **MC-SM10**



■Parts Included
- Round head wood screw 2.7×13 2 pcs
- Countersunk head wood screw 2.4×13 1 pc

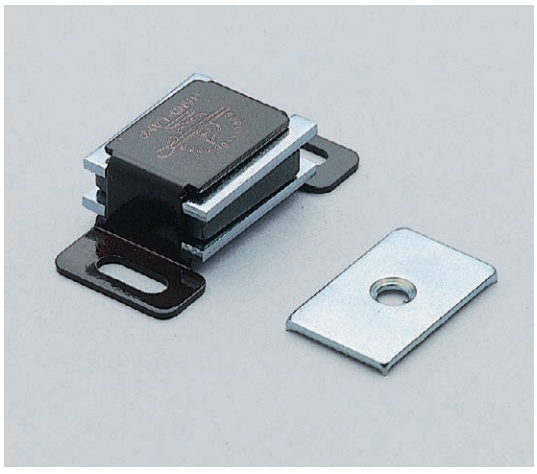


No.	Material	Finish
①	Aluminium Alloy	Anodized
②	Steel (Yoke)	Clear Zinc Chromate
③	Ferrite	–
④	Steel	Clear Zinc Chromate

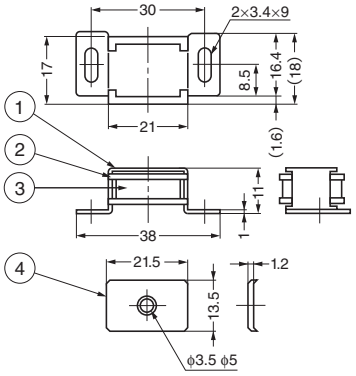
Item Code	Item Name	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-202	MC-SM10	20 N	2 kgf	12 g	100 pcs	1,000 pcs

MAGNETIC CATCH

STEEL **MC-S78**



■Parts Included
- Round head wood screw 3.1×13 2 pcs
- Countersunk head wood screw 2.4×13 1 pc

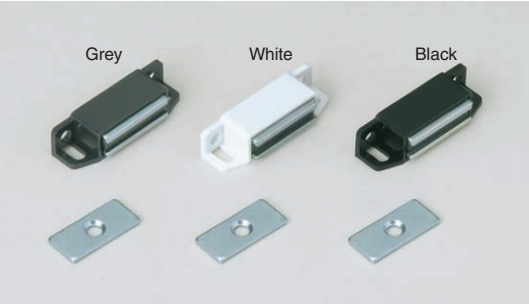


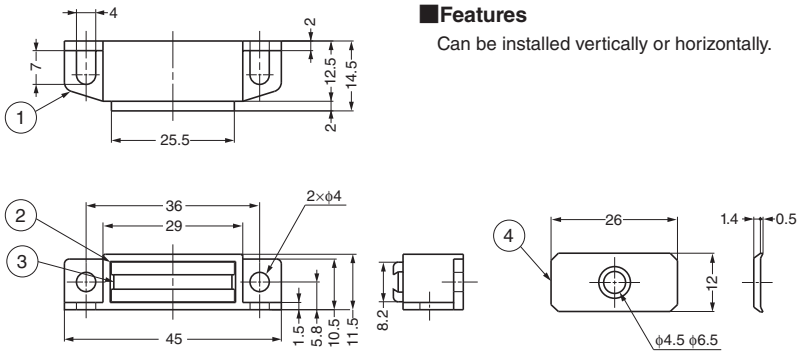
No.	Material	Finish/Colour
①	Aluminium Alloy	Brown
②	Steel (Yoke)	Clear Zinc Chromate
③	Ferrite	–
④	Steel	Clear Zinc Chromate

Item Code	Item Name	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-030	MC-S78	7.8 N	0.8 kgf	17 g	36 pcs	720 pcs

MAGNETIC CATCH

MC0099





■Features

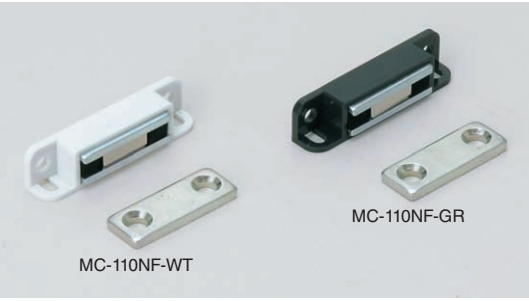
Can be installed vertically or horizontally.

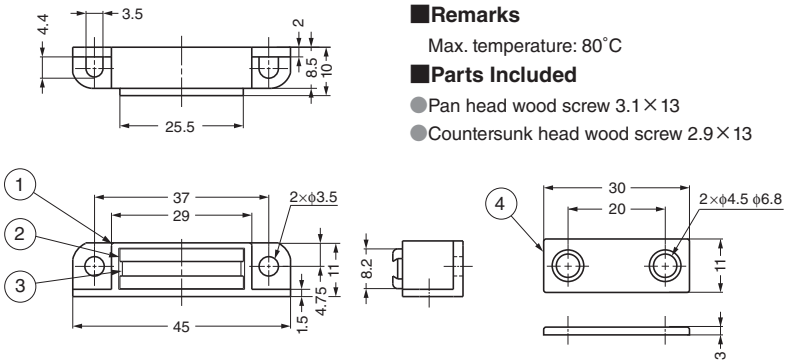
Item Code	Item Name	Colour	Magnetic Force		Weight	Box	Carton
140-050-501	MC0099BP	Black	10.8 N	1.1 kgf	16.3 g	100 pcs	1,000 pcs
140-050-503	MC0099SBP	Black	37.2 N	3.8 kgf	16.3 g	100 pcs	1,000 pcs
140-050-502	MC0099WP	White	10.8 N	1.1 kgf	16.3 g	100 pcs	1,000 pcs
140-050-504	MC0099SWP	White	37.2 N	3.8 kgf	16.3 g	100 pcs	1,000 pcs
140-050-505	MC0099GP	Grey	51 N	5.2 kgf	16.3 g	100 pcs	1,000 pcs

No.	Part Name	Material	Finish/Colour
①	Body	ABS	White, Black
		Polycarbonate (PC)	Grey
②	Yoke	Steel	Yellow Zinc Chromate
③	Magnet	Ferrite	—
④	Counter Plate	Steel	Clear Zinc Chromate

MAGNETIC CATCH

MC-110NF





■Features

- Can be installed vertically or horizontally.
- Strong magnetic catch ideal for tight space.

■Remarks

Max. temperature: 80˚C

■Parts Included

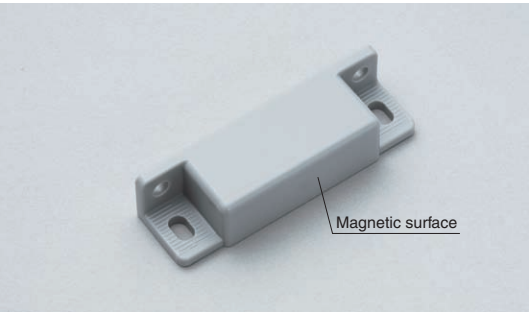
- Pan head wood screw 3.1×13
- Countersunk head wood screw 2.9×13

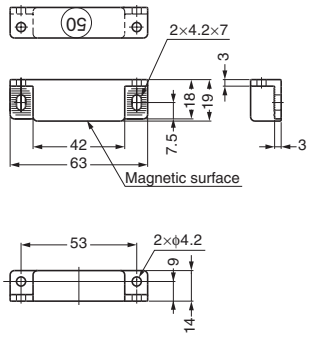
No.	Part Name	Material	Finish/Colour
①	Body	Polycarbonate (PC)	White/Grey
②	Yoke	Steel	Yellow Zinc Chromate
③	Magnet	Neodymium	—
④	Counter Plate	Steel	Yellow Zinc Chromate

Item Code	Item Name	Colour	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-335	MC-110NF-WT	White	78.4 N	8 kgf	10 g	100 pcs	800 pcs
140-050-336	MC-110NF-GR	Grey	78.4 N	8 kgf	10 g	100 pcs	800 pcs

SEALED MAGNETIC CATCH

MC-JM63G





■Features

- Can be installed vertically or horizontally.
- Resin sealing the magnet prevents rusting.
- Can be installed on aluminium frame.
- Ideal for kitchen and bath equipment.

■Remarks

Max. temperature: 80˚C

■Recommended Screw

Nominal 4 tapping screw or M4 screw

Part Name	Material	Colour
Body	Polyacetal (POM)	Grey
Magnet	Neodymium	—

■Body

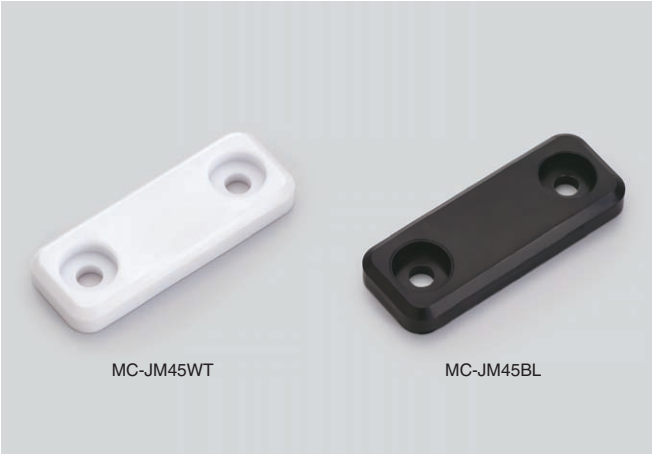
Item Code	Item Name	Magnetic Force		Weight	Box	Carton
140-050-153	MC-JM63G-15	14.7 N	1.5 kgf	24 g	50 pcs	500 pcs
140-050-152	MC-JM63G-30	29.4 N	3 kgf	28 g	50 pcs	500 pcs
140-050-151	MC-JM63G-50	49 N	5 kgf	40 g	50 pcs	500 pcs

■Counter Plate (Sold Separately)

Item Code	Item Name	Page
140-050-122	MC-JMP45WT	P.272
140-029-241	MC-JMP45BL	P.272
140-050-149	MC-JM49	P.273
140-050-138	AS-68	P.273

SEALED MAGNETIC CATCH

MC-JM45

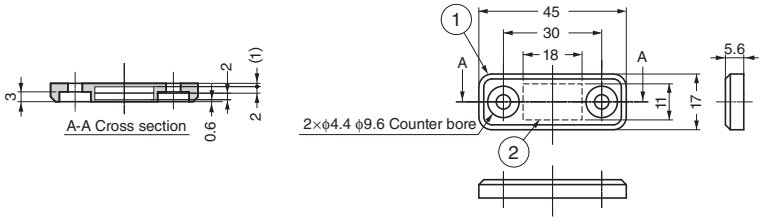


■**Features**
- Resin sealing the magnet prevents rusting.
- Thin magnetic catch ideal for tight space.
- Strong magnetic force.
- Ideal for kitchen equipment by using with the counter plate MC-JMP45 (P.272)

■**Remarks**
Max. temperature: 80˚C

■**Recommended Screw**
Nominal 4 tapping screw or M4 screw

■**Sold Separately**
Counter plate MC-JMP45, MC-JM49, AS-68 (P.273)



■**Counter Plate (Sold Separately)**

Item Code	Item Name	Page
140-050-122	MC-JMP45WT	P.272
140-029-241	MC-JMP45BL	P.272
140-050-149	MC-JM49	P.273
140-050-138	AS-68	P.273

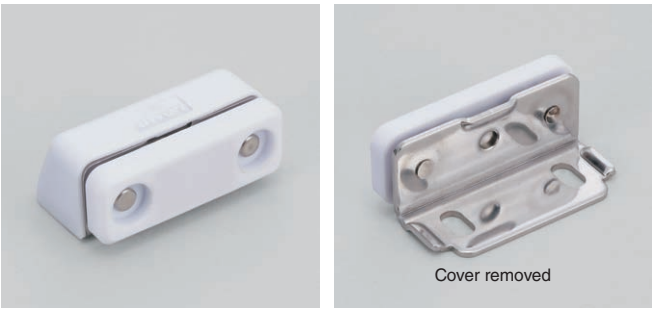
No.	Part Name	Material	Colour
①	Body	Polypropylene (PP)	White, Black
②	Magnet	Neodymium	–

■**Body**

Item Code	Item Name	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-154	MC-JM45WT	29.4 N	3 kgf	8.5 g	100 pcs	1000 pcs
140-029-240	MC-JM45BL	29.4 N	3 kgf	8.5 g	100 pcs	1000 pcs

SEALED MAGNETIC CATCH

MC-JMS45WT



■**Features**
- Anti rust and dust.
- Magnetic face can pivot for better contact with counter plate.
- Suitable for kitchen equipment using with MC-JMP45 (P.272)

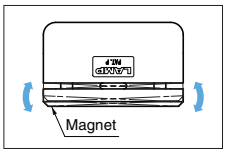
Similar item: MC-JM45 (P.270)

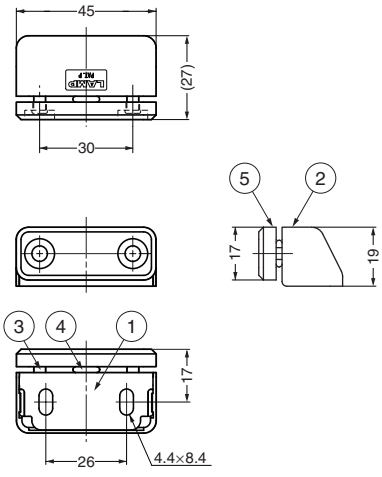
■**Remarks**
Max. temperature: 80˚C

■**Sold Separately**
Counter plate MC-JMP45 (P.272), AS-68, MC-JM49 (P.273)

■**Recommended Screw**
M4 screw, tapping screw nominal 4

■**Movement of Magnet**





No.	Part Name	Material	Finish/Colour
①	Body (Thickness t = 1.5)	Stainless Steel (SUS304)	Mirror
②	Cover	Polypropylene (PP)	White
③	Shaft	Stainless Steel (SUS303)	Plain
④	Ring	Rubber (FKM)	Black
⑤	Magnet (MC-JM45WT/above)	Polypropylene (PP) /Neodymium	White

■**Counter Plate (Sold Separately)**

Item Code	Item Name	Page
140-050-122	MC-JMP45WT	P.272
140-029-241	MC-JMP45BL	P.272
140-050-138	AS-68	P.273
140-050-149	MC-JM49	P.273

■**Body**

Item Code	Item Name	Magnetic Force		Weight	Box	Carton
140-024-597	MC-JMS45WT	29.4 N	3 kgf	26 g	24 pcs	240 pcs

SEALED MAGNETIC CATCH

MC-MS50



■Features

- The body covered with silicon rubber reduces the noise when the door closed.
- Thin and strong.

■Remarks

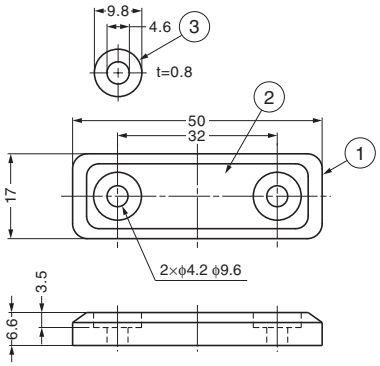
Max. temperature: 80˚C

■Sold Separately

Counter plate MC-JMP45 (P.272), AS-68, MC-JM49 (P.273)

■Recommended Screw

Truss screw M4



■Body

Item Code	Item Name	Colour	Magnetic Force		Weight	Box	Carton
140-024-468	MC-MS50LGR	Light Grey	39.2 N	4 kgf	15 g	100 pcs	1,000 pcs
140-024-469	MC-MS50DGR	Dark Grey	39.2 N	4 kgf	15 g	100 pcs	1,000 pcs

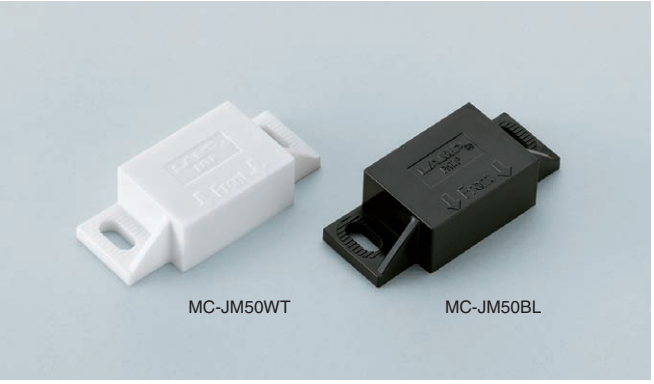
■Counter Plate (Sold Separately)

Item Code	Item Name	Page
140-050-122	MC-JMP45WT	P.272
140-029-241	MC-JMP45BL	P.272
140-050-138	AS-68	P.273
140-050-149	MC-JM49	P.273

No.	Part Name	Material	Finish/Colour
①	Body	Silicone Rubber (Q)	Light Grey, Dark Grey
②	Magnet	Neodymium	Nickel
③	Plate	Stainless Steel (SUS304)	Plain

SEALED MAGNETIC CATCH

MC-JM50



■Features

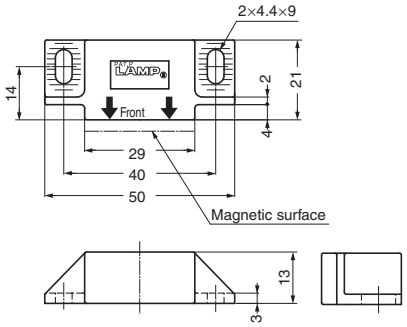
- Resin body prevents rusting.
- Ideal for kitchen or bath equipment by using with the counter plate MC-JMP45 (P.272)

■Remarks

Max. temperature: 80˚C

■Recommended Screw

Nominal 4 tapping screw or M4 screw



Part Name	Material	Colour
Body	Polyacetal (POM)	White, Black
Magnet	Neodymium	—

■Body

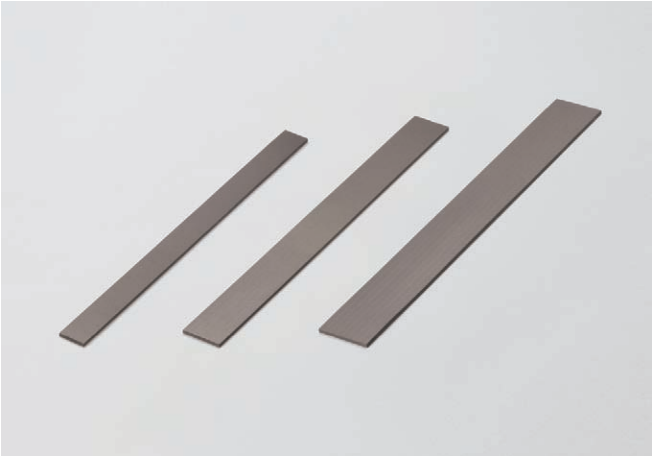
Item Code	Item Name	Colour	Magnetic Force N	Magnetic Force kgf	Weight	Box	Carton
140-050-156	MC-JM50WT	White	29.4 N	3 kgf	21 g	24 pcs	480 pcs
140-050-155	MC-JM50BL	Black	29.4 N	3 kgf	21 g	24 pcs	480 pcs

■Counter Plate (Sold Separately)

Item Name	Page
MC-JMP45	P.272

MAGNETIC RUBBER SHEET

NMS

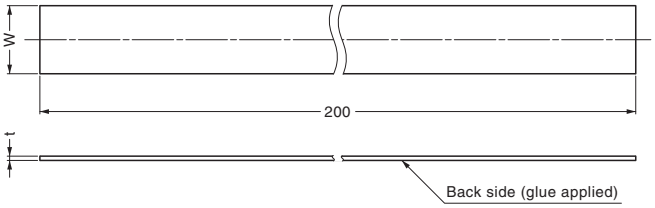


■Features

- Easy to cut.
- Easy to apply with glue.
- Ultra thin but strong magnetic force by using neodymium magnet.
- Weaker magnetic type (KMS) available. Please contact with customer service.

■Remarks

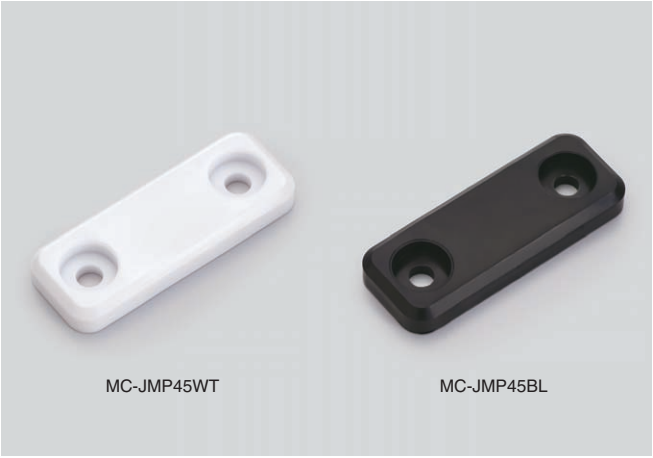
- Don't use outside.
- Max. temperature 80˚C



Item Code	Item Name	Material	W	t	Magnetic Force N/cm²	Magnetic Force kgf/cm²	Weight	Carton
140-021-209	NMS-1-200	Nitrile Rubber (NBR) / Neodymium	12.7	0.8	3.8 N/cm²	0.39 kgf/cm²	10 g	500 pcs
140-021-210	NMS-2-200		19.1	0.8	3.8 N/cm²	0.39 kgf/cm²	16 g	500 pcs
140-021-211	NMS-3-200		25.4	0.8	3.8 N/cm²	0.39 kgf/cm²	21 g	500 pcs
140-021-212	NMS-4-200		12.7	1.5	5.4 N/cm²	0.55 kgf/cm²	19 g	500 pcs
140-021-213	NMS-5-200		19.1	1.5	5.4 N/cm²	0.55 kgf/cm²	30 g	250 pcs
140-021-214	NMS-6-200		25.4	1.5	5.4 N/cm²	0.55 kgf/cm²	39 g	250 pcs

SEALED COUNTER PLATE

MC-JMP45



■Features

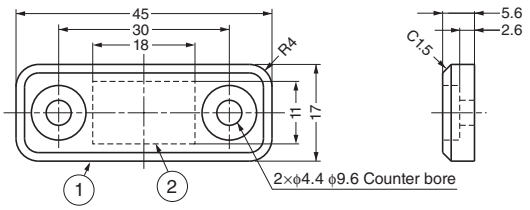
Hermetically sealed, ideal for high corrosion environments such as kitchen and bath equipment.

■Recommended Screw

Tapping screw nominal 4 (truss or binding head, made of stainless steel), M4 screw (made of stainless steel).

■Optional Magnetic Catch Examples:

- Rubber sealed: MC-MS50 (P.271)
- Ultra thin: MC-YN015S (P.261), MC-YN001 (P.261), MC-158,159 (P.262)
- Plastic sealed: MC-JM45 (P.270), MC-JM50 (P.271), MC-JM63G (P.269)



No.	Part Name	Material
①	Body	Polypropylene (PP)
②	Plate	Steel

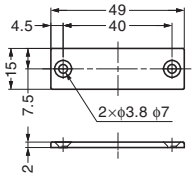
Item Code	Item Name	Colour	Weight	Box	Carton
140-050-122	MC-JMP45WT	White	7.3 g	100 pcs	1,000 pcs
140-029-241	MC-JMP45BL	Black	7.3 g	100 pcs	1,000 pcs

STAINLESS STEEL COUNTER PLATE

STAINLESS 304 STEEL

MC-JM49





Features

- Plate for MC-JM magnetic catches.
- High corrosion resistance.

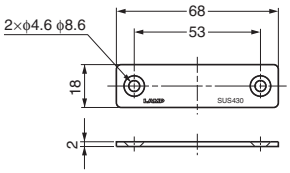
Item Code	Item Name	Material	Finish	Weight	Box	Carton
140-050-149	MC-JM49	Stainless Steel (304 Equivalent)	Polished	10 g	100 pcs	1,000 pcs

STAINLESS STEEL COUNTER PLATE

STAINLESS 430 STEEL

AS-68



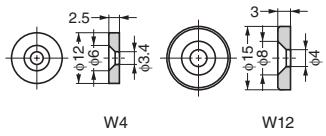


Item Code	Item Name	Material	Finish	Weight	Box	Carton
140-050-138	AS-68	Stainless Steel (SUS430)	Mirror	17 g	100 pcs	1,000 pcs

COUNTER PLATE

W



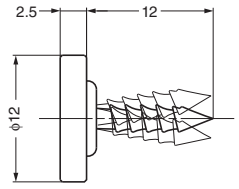


Item Code	Item Name	Material	Finish	Weight	Box	Carton
140-050-051	W4	Steel	Yellow Zinc Chromate	1.7 g	1,000 pcs	10,000 pcs
140-050-113	W12	Steel	Nickel	3.3 g	600 pcs	3,000 pcs

COUNTER PLATE

Z4

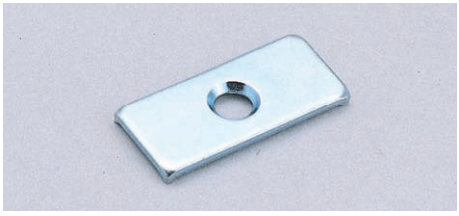


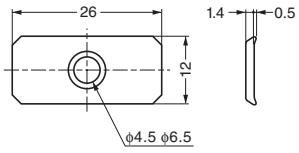


Item Code	Item Name	Material	Finish	Weight	Box	Carton
140-050-110	Z4	Steel	Nickel	2 g	1,000 pcs	4,000 pcs

COUNTER PLATE

SP0207





Features

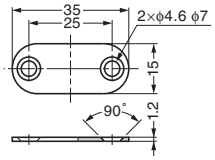
Plate for TC-42, MC-FP5S magnetic catches.

Item Code	Item Name	Material	Finish	Weight	Carton
140-050-323	SP0207	Steel	Clear Zinc Chromate	3.1 g	5,000 pcs

COUNTER PLATE

MC-YN001U

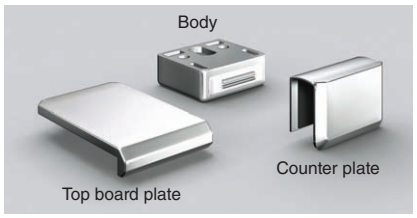




Item Code	Item Name	Material	Finish	Weight	Carton
140-059-555	MC-YN001U	Steel	Nickel	4 g	5,000 pcs

MAGNETIC CATCH

XL-GC09-CR



■Application Example

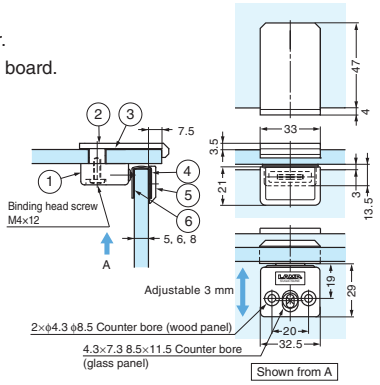


■Features

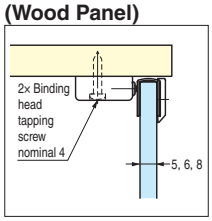
- Magnetic catch for cabinet door.
- Both for glass and wood ceiling board.
- Total cabinet design available with XL-GC01 (P.337), XL-GC02 (P.337) and XL-GC01-CR (P.337)
- Recommended to use with XL-G01-CR, XL-GC02, handles or knobs.

■Screw Included

Binding head screw M4×12

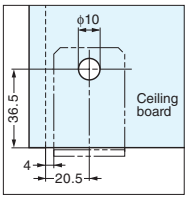


■Application (Wood Panel)

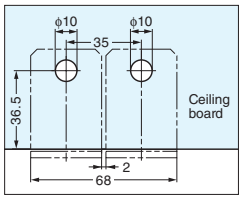


■Cut Out Dimensions

Glass Swing Door (Right)



Glass Double Door



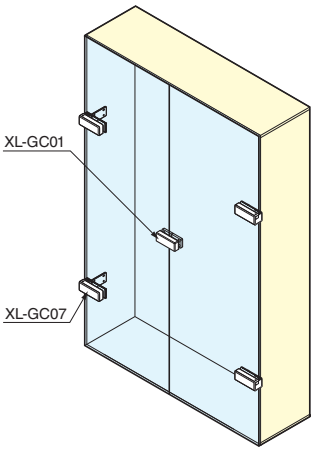
Item Code	Item Name	Glass Thickness	Magnetic Force		Weight	Box	Carton
140-017-556	XL-GC09-CR	5, 6, 8	14.7 N	1.5 kgf	110 g	1 pc	24 pcs

No.	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy (ZDC)	Chrome
②	Top Board Plate	Zinc Alloy (ZDC)	Chrome
③	Spacer	Rubber	Black
④	Strike	Steel	Chrome
⑤	Counter Plate	Zinc Alloy (ZDC)	Chrome
⑥	Gasket	Foam Rubber	Black

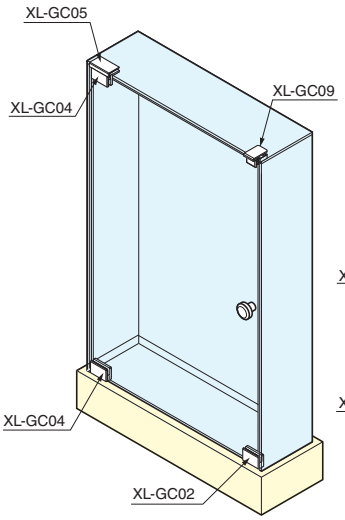
GLASS SHOWCASE HARDWARE SERIES DIGEST

XL-GC

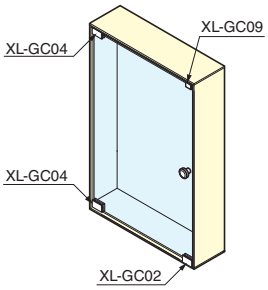
■Double Door



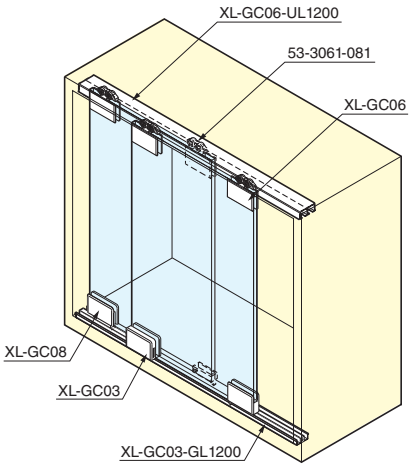
■Swing Door



Can be installed on wooden cabinet.



■Sliding Door



■Locks

Part Name	Item Name		Page
For Double Doors	XL-GC01-CR		P.337
For Swing Doors	XL-GC02-CR		
For Sliding Doors	XL-GC03-CR		

■Hinges

Part Name	Item Name		Page
Inset Type	XL-GC04-CR		P.449
Overlay Type	XL-GC07-CR		
Glass Bracket	XL-GC05-CR		

■Sliding Door Hardware

Part Name	Item Name		Page
Upper Bracket	XL-GC06-CR		P.642
Bottom Guide Bracket	XL-GC08-CR		

■Catch

Part Name	Item Name		Page
Magnetic Catch	XL-GC09-CR		Above

STAINLESS STEEL DRAW LATCH

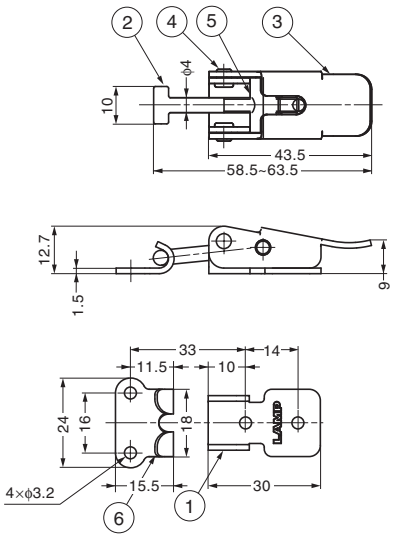
TEST METHOD 7 | STAINLESS 304 STEEL

SCC-TF30

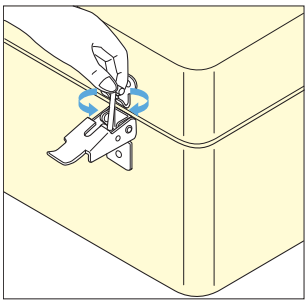


■Recommended Screw

Pan head screw M3



■Adjustment



No.	Part Name	Material	Finish
①	Base	Stainless Steel (SUS304)	Mirror
②	Arm	Stainless Steel	–
③	Lever	Stainless Steel (SUS304)	Mirror
④	Shaft	Stainless Steel (SUS303)	Plain
⑤	Adjustment Shaft	Stainless Steel (SUS303)	Plain
⑥	Counter Plate	Stainless Steel (SUS304)	Mirror

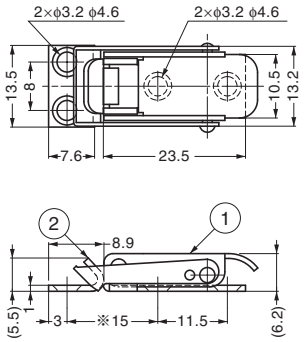
Item Code	Item Name	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
120-028-716	SCC-TF30	500 N	51 kgf	32 g	100 pcs	400 pcs

STAINLESS STEEL DRAW LATCH

STAINLESS 304 STEEL

SCC-25





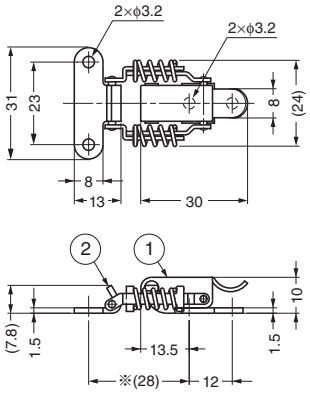
※Dimension shown is in case of clamping force "0".

No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Polished
②	Counter Plate	Stainless Steel (SUS304)	Polished

Item Code	Item Name	Weight	Box	Carton
120-021-949	SCC-25	6 g	100 pcs	1,000 pcs

STAINLESS STEEL COMPRESSION DRAW LATCH SCC-30





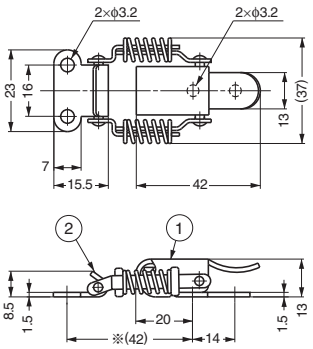
※Dimension shown is in case of clamping force "0".

Item Code	Item Name	Weight	Box	Carton
120-040-693	SCC-30	15 g	100 pcs	1,000 pcs

No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Polished
②	Counter Plate	Stainless Steel (SUS304)	Polished

STAINLESS STEEL COMPRESSION DRAW LATCH SCC-40





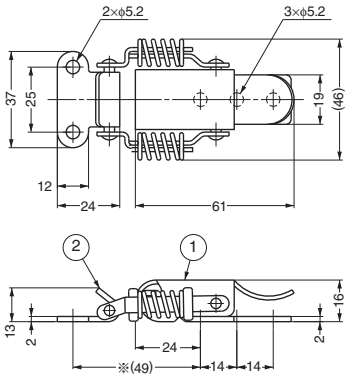
※Dimension shown is in case of clamping force "0".

Item Code	Item Name	Weight	Box	Carton
120-043-980	SCC-40	36 g	40 pcs	400 pcs

No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Polished
②	Counter Plate	Stainless Steel (SUS304)	Polished

STAINLESS STEEL COMPRESSION DRAW LATCH SCC-60



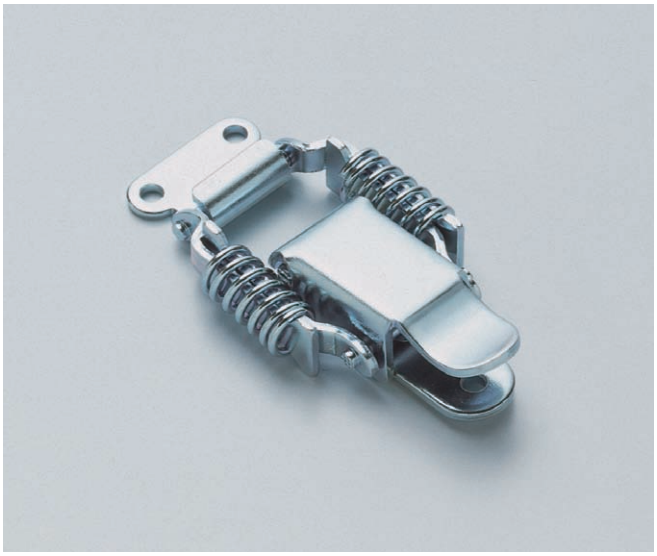


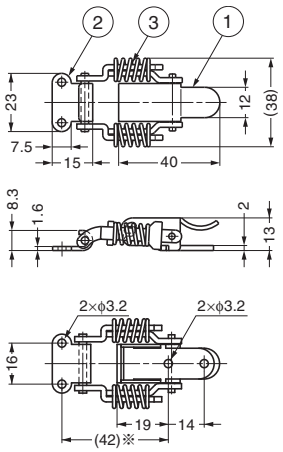
※Dimension shown is in case of clamping force "0".

Item Code	Item Name	Weight	Box	Carton
120-043-981	SCC-60	75 g	20 pcs	200 pcs

No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Polished
②	Counter Plate	Stainless Steel (SUS304)	Polished

COMPRESSION DRAW LATCH SCCA-40





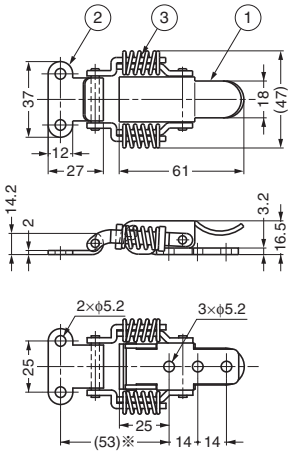
※Dimension shown is in case of clamping force "0".

Item Code	Item Name	Weight	Carton
120-049-179	SCCA-40	38 g	200 pcs

No.	Part Name	Material	Finish
①	Body	Steel	Clear Zinc Chromate
②	Counter Plate	Steel	Clear Zinc Chromate
③	Spring	Steel	–

COMPRESSION DRAW LATCH SCCA-60





※Dimension shown is in case of clamping force "0".

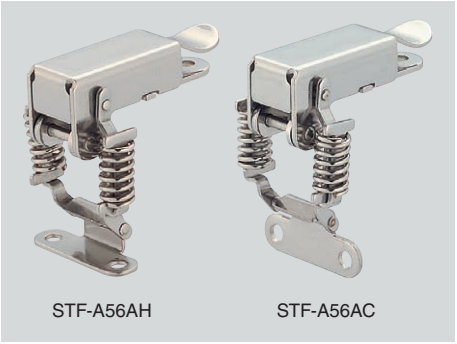
Item Code	Item Name	Weight	Carton
120-049-303	SCCA-60	102 g	100 pcs

No.	Part Name	Material	Finish
①	Body	Steel	Clear Zinc Chromate
②	Counter Plate	Steel	Clear Zinc Chromate
③	Spring	Steel	–

CORNER FASTENER

STAINLESS 304 STEEL

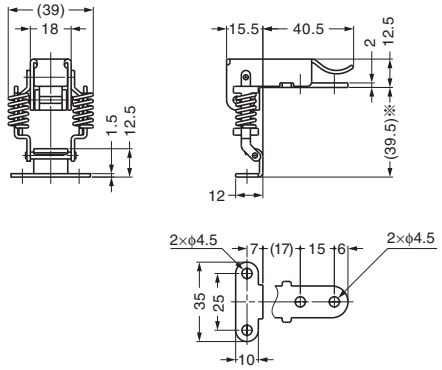
STF-A56



■Features

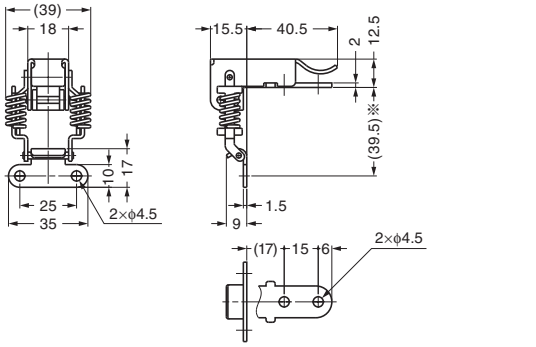
- Latch mounts on corner to draw perpendicular surfaces together.
- Designed to allow front operation.
- Available in two different counter plate styles.
- Provides constant holding tension for secure latching.

STF-A56AH



※Dimension shown is in case of clamping force "0".

STF-A56AC



※Dimension shown is in case of clamping force "0".

Item Code	Item Name	Material	Finish	Weight
120-040-480	STF-A56AH	Stainless Steel (SUS304)	Mirror	57 g

Item Code	Item Name	Material	Finish	Weight
120-040-479	STF-A56AC	Stainless Steel (SUS304)	Mirror	56 g

CORNER FASTENER (W/ LOCK)

STAINLESS 304 STEEL

STF-C64



■Features

- Latch mounts on corner to draw perpendicular surfaces togegther.
- Designed to allow front operation.
- Padlock and secondary catch options.
- Pull lever and lift latch to open.
- Available with or without spring.

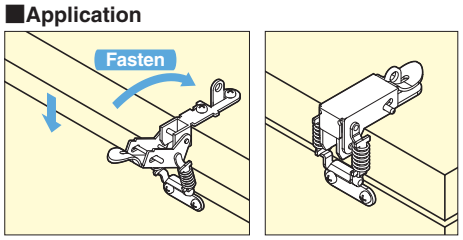
■Sold Separately

- Sealing pin 502-7SS, 502-9SS, 613-9SS (P.280)
- Optional counter plate 01-613SS, 02-613SS, 07-613SS (P.280)



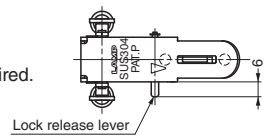
Corner fastener hinge STH-C64 (P.417) is also available.

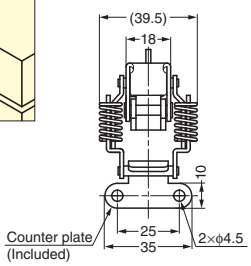
■Application

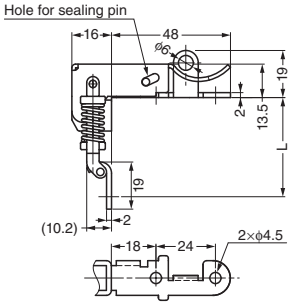


L Size mm±0.5	Clamping Force N±14	Clamping Force kgf±1.5
40	0 N±14	0 kgf±1.5
41	58.6 N±14	6.0 kgf±1.5
42	71.3 N±14	7.3 kgf±1.5
43	83.9 N±14	8.6 kgf±1.5
44	96.5 N±14	9.9 kgf±1.5

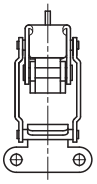
STF-C64A
: Lid gasket not required.

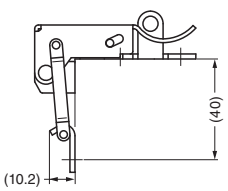






STF-C64B
: Lid gasket required.





Item Code	Item Name	Type	Door Thickness	Material	Finish	Weight	Box	Carton
120-042-200	STF-C64A	With Spring	14～28	Stainless Steel (SUS304)	Mirror	66.5 g	15 pcs	210 pcs
120-042-201	STF-C64B	Without Spring	14～28	Stainless Steel (SUS304)	Mirror	60 g	15 pcs	210 pcs

STAINLESS STEEL COMPRESSION LATCH

TEST METHOD 7 | TEST METHOD 17 | STAINLESS 304 STEEL

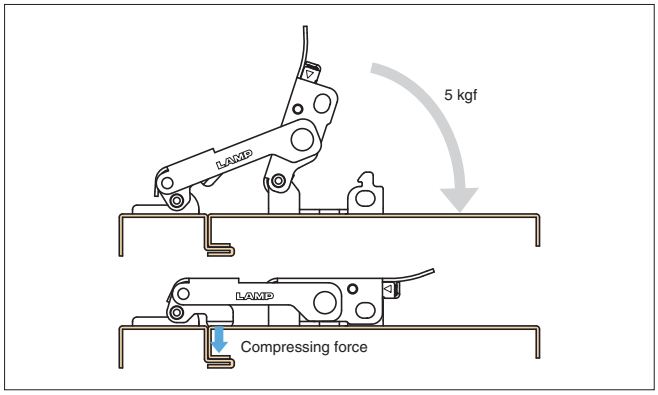
STF-CP140

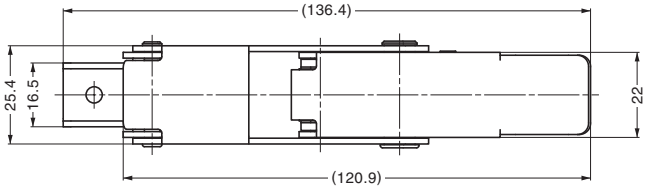


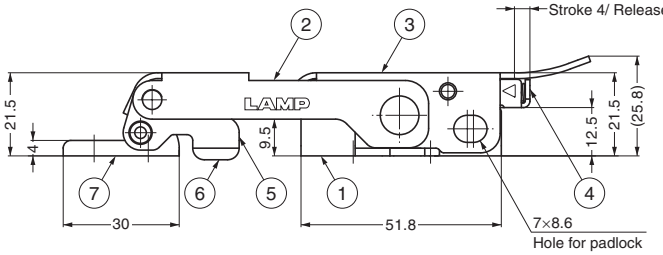
■Features

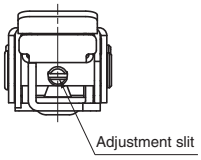
- Compression arm with rubber allows to fasten the door tightly.
- Compression force is adjustable.
- Push safety button to release the lock.
- Can be used with Padlock PWL (P.354).

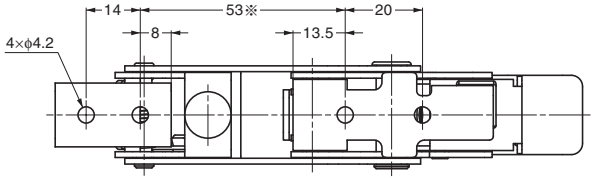
■Application

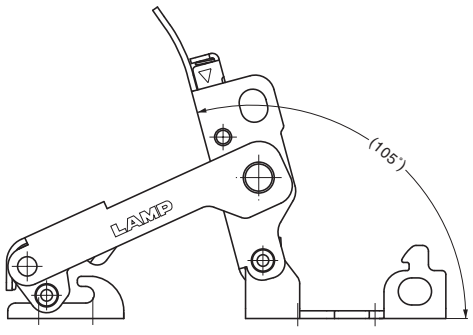






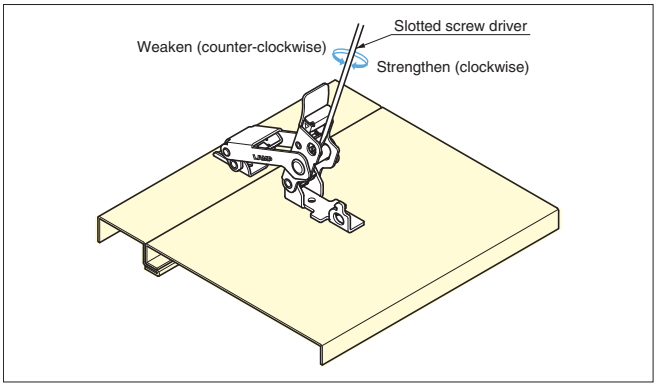






Fully opened

■How to Adjust Compressing Force



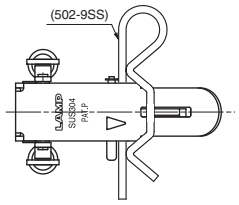
No.	Part Name	Material	Finish/Colour
①	Base	Stainless Steel (SUS304)	Mirror
②	Arm	Stainless Steel (SUS304)	Mirror
③	Lever	Stainless Steel (SUS304)	Mirror
④	Safety Button	Stainless Steel (SUS304)	Mirror
⑤	Compression Arm	Stainless Steel (SUS304)	Mirror
⑥	Rubber	Ethylene Propylene Rubber (EPDM)	Black
⑦	Counter Plate	Stainless Steel (SUS304)	Mirror

Item Code	Item Name	Compressing Force		Load Capacity N	Load Capacity kgf	Weight	Box	Carton
120-025-504	STF-CP140	245 N	25 kgf	600 N	61 kgf	130 g	10 pcs	80 pcs

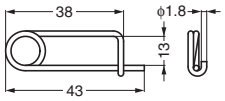
※In case of the lever operation force in 5kgf

Optional Pins & Counter Plate for STF-C64A, STF-C64B

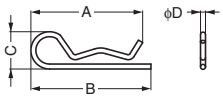
■Sealing Pin



Item Code	Item Name
120-041-822	502-7SS



Item Code	Item Name	A	B	C	D
120-041-823	502-9SS	63	66	18	2.6
120-041-825	613-9SS	55	59	15	2.3



■Features

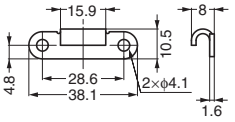
Prevents accidental unlock.

Material	Finish
Stainless Steel (SUS304)	Plain

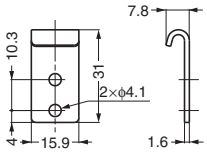
■Counter Plate

Material	Finish
Stainless Steel (SUS304)	Polished

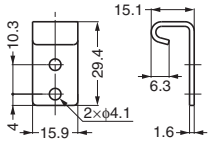
Item Code	Item Name
120-040-415	01-613SS



Item Code	Item Name
120-040-421	02-613SS



Item Code	Item Name
120-040-452	07-613SS

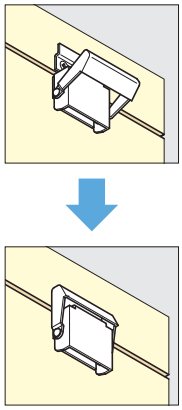


STAINLESS STEEL DRAW LATCH

TEST METHOD 8 | STAINLESS 304 STEEL

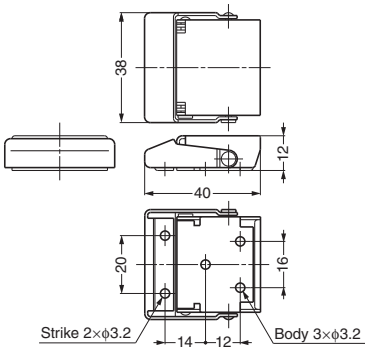
STF40





■Recommended Screw

M3



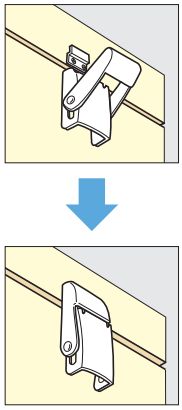
Item Code	Item Name	Material	Finish	Tension Force N	Tension Force kgf	Weight	Box	Carton
120-044-025	STF40	Stainless Steel (SUS304)	Polished	49 N	5 kgf	30 g	30 pcs	300 pcs

STAINLESS STEEL DRAW LATCH (SPRING LOADED)

TEST METHOD 7 | TEST METHOD 8 | TEST METHOD 17 | STAINLESS 304 STEEL

STF80



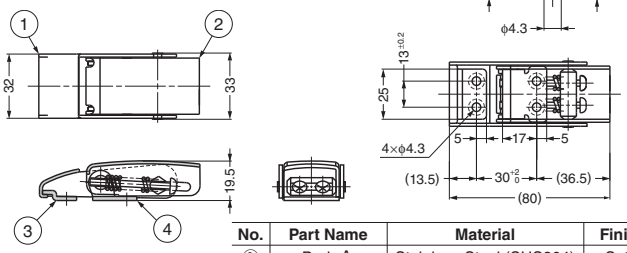


■Features

- Spring loaded latch provides constant holding tension for secure latching.
- Resistant to vibration.

■Recommended Screw

M4



No.	Part Name	Material	Finish
①	Body A	Stainless Steel (SUS304)	Satin
②	Body B	Stainless Steel (SUS304)	Satin
③	Counter Plate	Stainless Steel (SUS304)	Satin
④	Mounting Plate	Stainless Steel (SUS304)	Polished

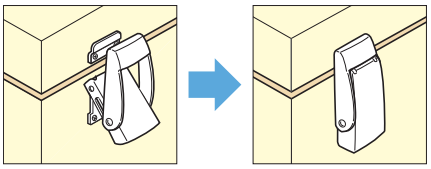
Item Code	Item Name	Tension Force N	Tension Force kgf	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
120-914-490	STF80	58.8 N	6 kgf	784 N	80 kgf	110 g	12 pcs	180 pcs

STAINLESS STEEL DRAW LATCH (W/ SAFETY LOCK)

TEST METHOD 7 | TEST METHOD 17 | STAINLESS 304 STEEL

STF82L





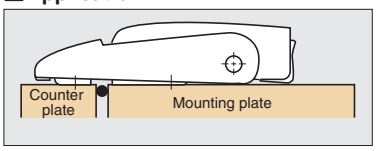
■Features

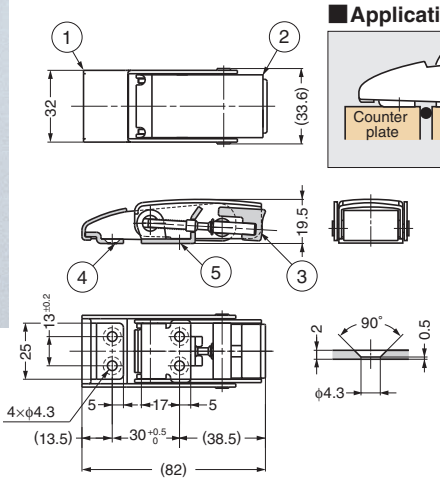
- With safety lock to prevent accidental release.
- Push safety button and lift to release.

■Recommended Screw

M4

■Application





No.	Part Name	Material	Finish/Colour
①	Body A	Stainless Steel (SUS304)	Satin
②	Body B	Stainless Steel (SUS304)	Satin
③	Release Button	Nitrile Rubber (NBR)	Black
④	Counter Plate	Stainless Steel (SUS304)	Satin
⑤	Mounting Plate	Stainless Steel (SUS304)	Polished

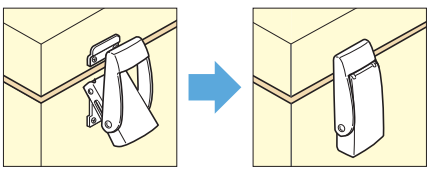
Item Code	Item Name	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
120-913-101	STF82L	784 N	80 kgf	111 g	12 pcs	180 pcs

STAINLESS STEEL DRAW LATCH (W/ SAFETY LOCK)

TEST METHOD 7 | TEST METHOD 8 | TEST METHOD 17 | STAINLESS 304 STEEL

STF100



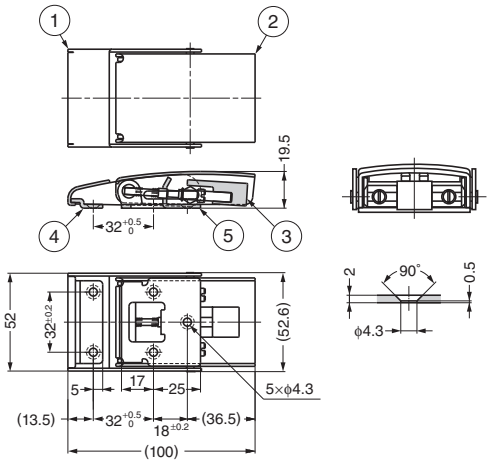


■Features

- With safety lock to prevent accidental release.
- Push safety button and lift to release.

■Recommended Screw

M4



No.	Part Name	Material	Finish/Colour
①	Body A	Stainless Steel (SUS304)	Satin
②	Body B	Stainless Steel (SUS304)	Satin
③	Release Button	Nitrile Rubber (NBR)	Black
④	Counter Plate	Stainless Steel (SUS304)	Satin
⑤	Mounting Plate	Stainless Steel (SUS304)	Polished

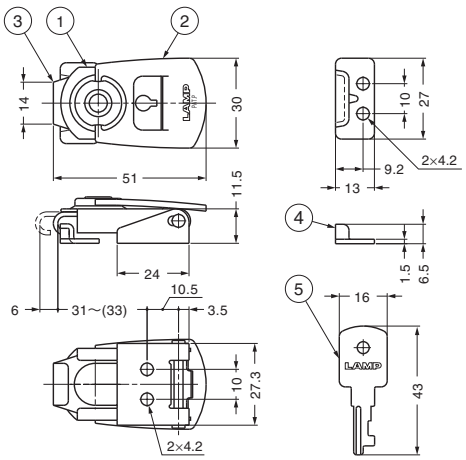
Item Code	Item Name	Tension Force N	Tension Force kgf	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
120-044-024	STF100	137.2 N	14 kgf	784 N	80 kgf	190 g	6 pcs	120 pcs

STAINLESS STEEL DRAW LATCH

TEST METHOD 7 | TEST METHOD 17 | STAINLESS 304 STEEL

PN-51





■Features

- High corrosion (Body : SUS304, Spring : SUS316).

■Remarks

Key changes are not available.

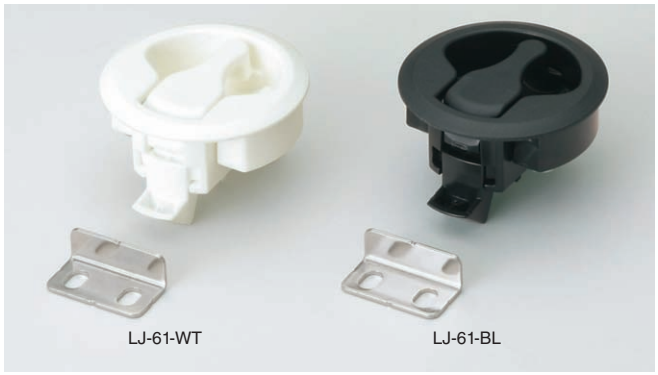
No.	Part Name	Material	Finish
①, ②	Body, Lever	Stainless Steel (SUS304)	Plain
③	Hook	Stainless Steel (SUS304)	Plain
④	Counter Plate	Stainless Steel (SUS304)	Plain
⑤	Key	Steel	Nickel

Item Code	Item Name	Load Capacity		Weight	Box	Carton
120-040-489	PN-51	686 N	70 kgf	50 g	40 pcs	240 pcs

FLUSH SLAM LATCH

L=R | STAINLESS

LJ-61



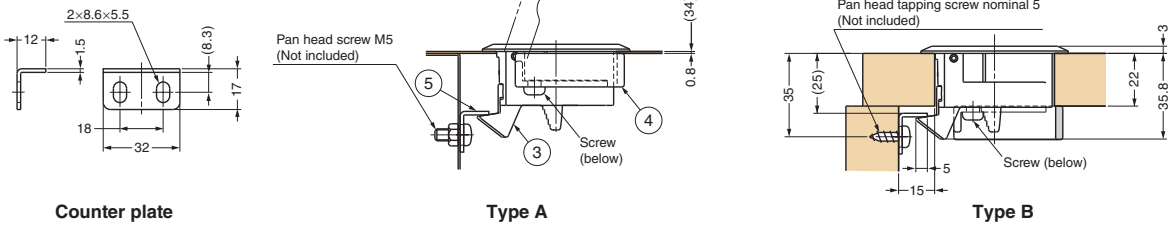
■Features

- Door will be latched when closed.
- Pull lever to open.
- Non-Handed: Can be installed on left or right side.
- All components are plastic, 304 or 316 stainless steel to provide high corrosion resistance.
- Easy installation. Insert the latch body through cut out section and simply screw-on the back plate.
- Back plate is designed to accommodate door thickness 0.8 mm - 12 mm, and also 12.5 mm - 22 mm by flipping over.

■Parts Included

- Pan head screw M5×12 (SUS316)
- Pan head screw M5×18 (SUS316)

■Cut Out Dimensions



Counter plate | Type A | Type B

■Screws

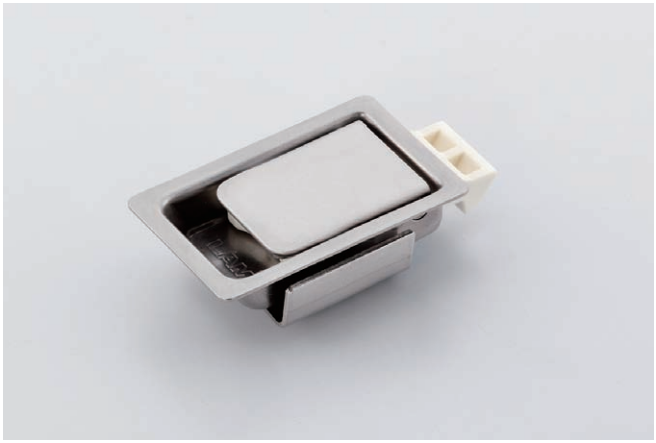
Type	Door Thickness	Screw
Type A	0.8～ 7.5	Pan Head Tapping Screw M5×12
Type A	8 ～12	Pan Head Tapping Screw M5×18
Type B	12.5～18.5	Pan Head Tapping Screw M5×12
Type B	19 ～22	Pan Head Tapping Screw M5×18

No.	Part Name	Material	Finish/Colour
①	Body	Polycarbonate	Black, White
②	Lever	Polycarbonate	Black, White
③	Latch	Polyacetal (POM)	Black, White
④	Back Plate	Polycarbonate	Black, White
⑤	Counter Plate	Stainless Steel (SUS316)	Mirror

Item Code	Item Name	Colour	Retaining Force		Weight	Box	Carton
140-050-031	LJ-61-BL	Black	147 N	15 kgf	61 g	10 pcs	120 pcs
140-059-200	LJ-61-WT	White	147 N	15 kgf	61 g	10 pcs	120 pcs

FLUSH SLAM LATCH

L=R STAINLESS **LC-48**

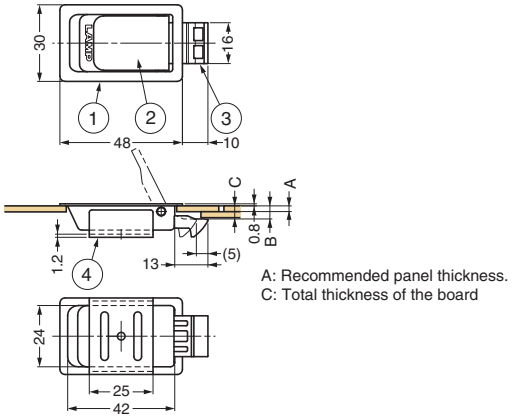


■Features

- Door will be latched when closed.
- Pull paddle handle to open.
- UL-94 V0 rated flame retardant material.
- Non-Handed: Can be installed on left or right side.
- Easy installation. Insert the latch body through cut out section and simply screw-on the back plate.

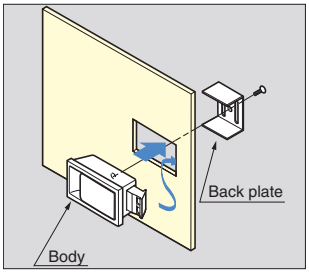
■Parts Included

Pan head screw M4×10 (SUS)

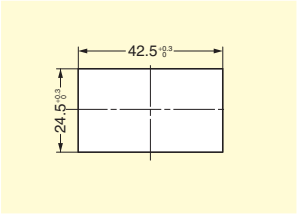


A: Recommended panel thickness.
C: Total thickness of the board

■Installation



■Cut Out Dimensions



Item Code	Item Name	A	B	C	Weight	Box	Carton
140-021-199	LC-48-3	1～1.6	3.5	3.2	35 g	40 pcs	400 pcs
140-021-200	LC-48-5	1～2.3	5.1	4.6	35 g	40 pcs	400 pcs

No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Polished
②	Handle	Stainless Steel (SUS304)	Polished
③	Latch Bolt	PBT	White
④	Back Plate	Stainless Steel (SUS304)	Polished

FLUSH SLAM LATCH

L=R STAINLESS **LC-65A**



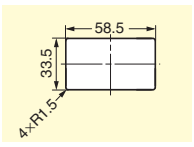
■Features

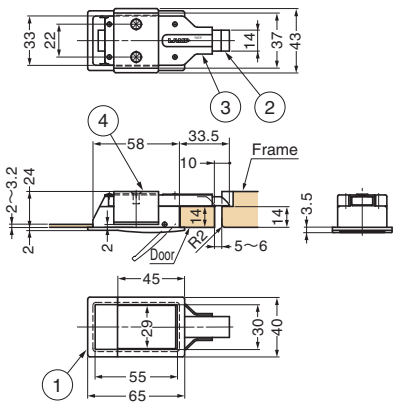
- Door will be latched when closed.
- Pull paddle handle to open.
- Non-Handed: Can be installed on left or right side.
- Easy installation. Insert the latch body through cut out section and simply screw-on the back plate.
- Latching margin : 5 mm

■ Parts Included

Pan head screw M4x8 (SUS)

■Cut Out Dimensions

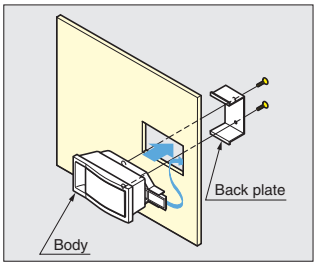




■Application Example



■Installation

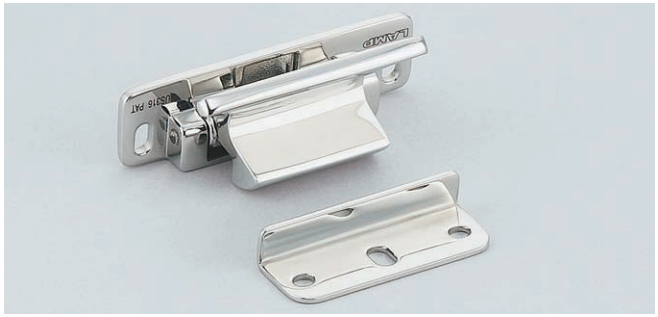


Item Code	Item Name	Door Thickness	Weight	Box	Carton
140-050-206	LC-65A	2～3.2	108 g	10 pcs	100 pcs

No.	Part Name	Material	Finish
①	Body	Aluminium Alloy	Silver
②	Latch Bolt	Polyacetal (POM)	White
③	Cover	Stainless Steel (SUS304)	Polished
④	Back Plate	Stainless Steel (SUS304)	Polished

STAINLESS STEEL LEVER LATCH

LL-66S



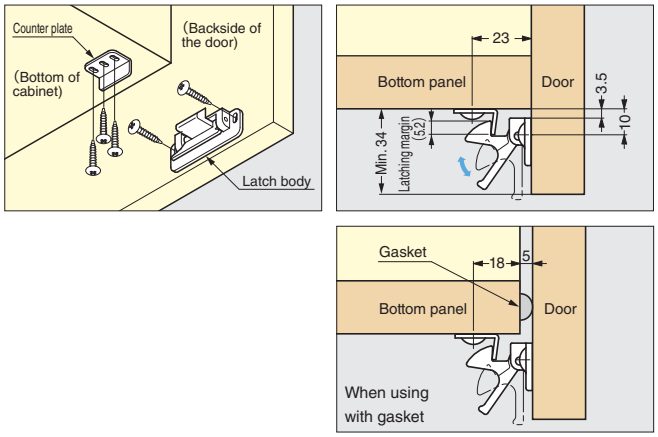
■Features

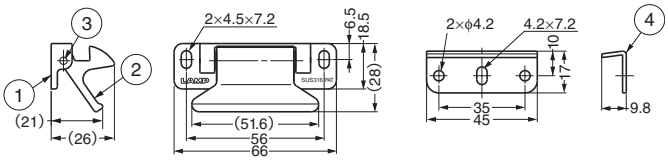
- Corrosion resistance: Made of 316 stainless steel.
- Latch designed to be used on a door without knobs and handles.
- Installation position can be adjusted. (body: vertical ±1.5 mm, counter plate: horizontal ±1.5 mm)
- Can be used in exterior application.

■Parts Included

Truss head tapping screw 4×12 (SUS)

■Cut Out Dimensions





No.	Part Name	Material	Finish
①	Latch Body	Stainless Steel (SCS14)	Mirror
②	Lever	Stainless Steel (SCS14)	Mirror
③	Shaft	Stainless Steel (SUS316)	Plain
④	Counter Plate	Stainless Steel (SUS316)	Mirror

※SCS14 is equivalent of SUS316.

Item Code	Item Name	Retaining Force N	Retaining Force kgf	Weight	Box	Carton
140-051-030	LL-66S	196 N	20 kgf	85 g	20 pcs	100 pcs

LEVER LATCH

LL-66



■Features

- Latch designed to be used on a door without knobs and handles.
- Installation position can be adjusted. (body: vertical ±1.5 mm, counter plate: horizontal ±1.5 mm)

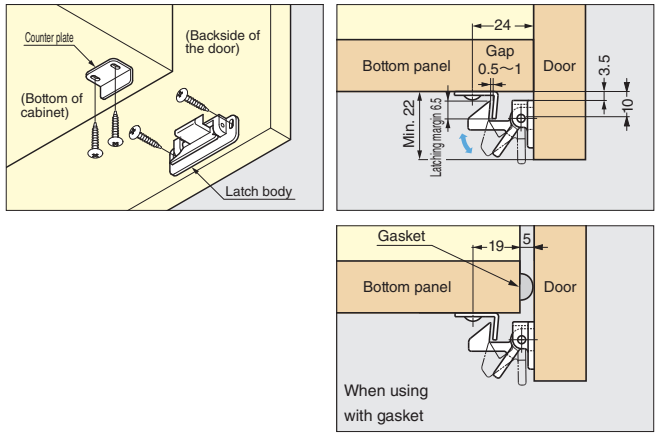
■Remarks

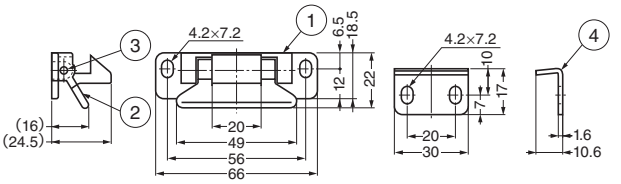
Chrome plated version will be available from summer in 2016.

■Parts Included

Truss head tapping screw 4×12

■Cut Out Dimensions





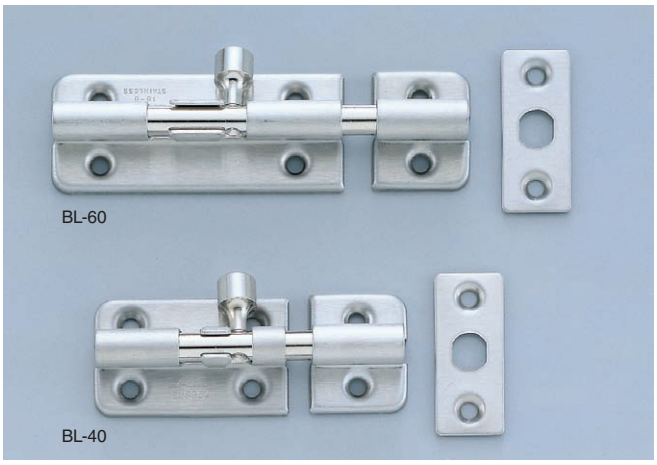
No.	Part Name	Material	Finish/Colour
①	Latch Body	Polyamide (PA)	White, Brown, Grey
②	Lever	Polyamide (PA)	White, Brown, Grey
③	Shaft	Steel	Yellow Zinc Chromate
④	Counter Plate	Steel	Nickel

Item Code	Item Name	Type	Colour	Retaining Force N	Retaining Force kgf	Weight	Box	Carton
140-051-028	LL-66BR	—	Brown	196 N	20 kgf	25 g	30 pcs	300 pcs
140-051-027	LL-66WT	—	White	196 N	20 kgf	25 g	30 pcs	300 pcs
140-051-029	LL-66GR	Fire Proof Type	Grey	196 N	20 kgf	25 g	30 pcs	300 pcs

BARREL BOLT

L=R STAINLESS 304 STEEL STAINLESS

BL

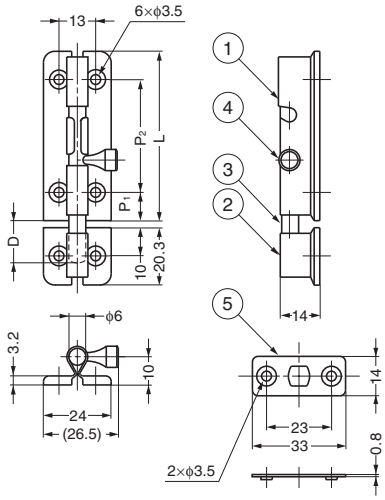


■Features

- Ideal for harsh and high corrosion environments.
- 2 counter plates included for different mountings.

■Parts Included

Countersunk head wood screw 2.7×16 (SUS)



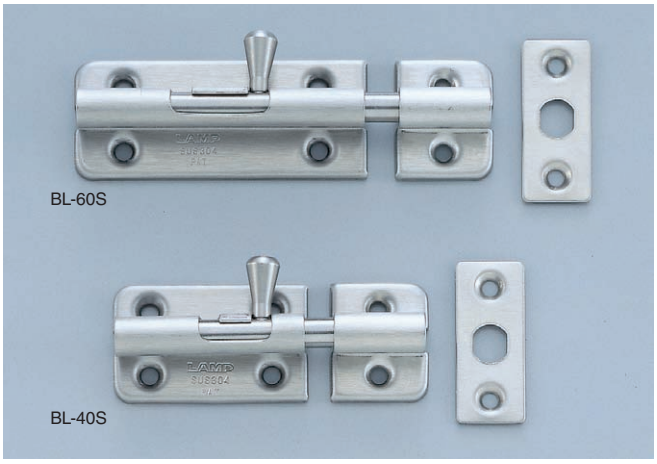
No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Strike	Stainless Steel (SUS304)	Satin
③	Bar	Brass	Nickel
④	Knob	Brass	Nickel
⑤	Counter Plate	Stainless Steel (SUS304)	Satin

Item Code	Item Name	L	P_1	P_2	D	Weight	Box	Carton
140-050-247	BL-40	40	7.5	25	11	36 g	30 pcs	450 pcs
140-051-053	BL-60	60	10	40	15	50 g	30 pcs	450 pcs

SPRING LOADED BARREL BOLT

L=R STAINLESS 304 STEEL STAINLESS

BL-S

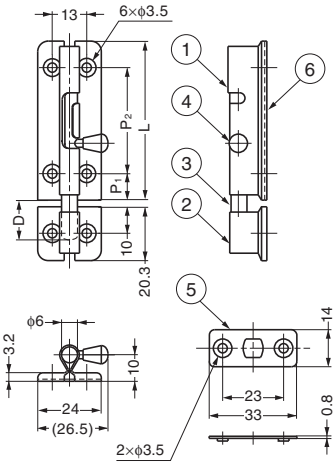


■Features

- Ideal for harsh and high corrosion environments.
- Knob springs back into sleeve to keep bolt in locked or unlocked position.
- Can be installed vertically or horizontally.
- 2 counter plates included for different mountings.

■Parts Included

Countersunk head wood screw 2.7×16 (SUS)

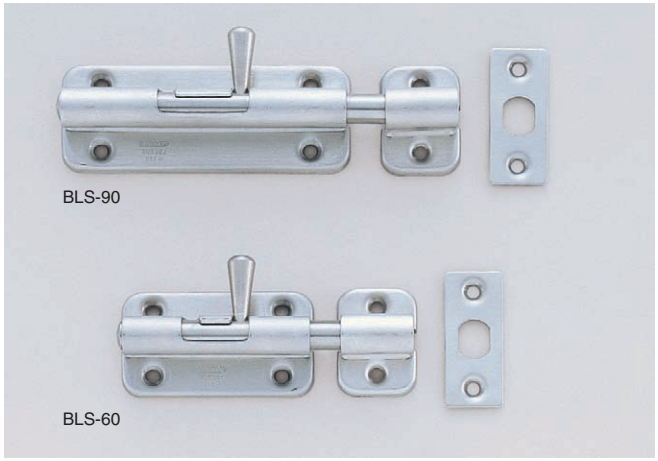


No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Strike	Stainless Steel (SUS304)	Satin
③	Bar	Stainless Steel (SUS303)	Plain
④	Knob	Stainless Steel (SUS303)	Plain
⑤	Counter Plate	Stainless Steel (SUS304)	Satin
⑥	Plate	Stainless Steel (SUS304)	Polished

Item Code	Item Name	L	P_1	P_2	D	Weight	Box	Carton
140-050-245	BL-40S	40	7.5	25	11	36 g	30 pcs	450 pcs
140-050-246	BL-60S	60	10	40	15	50 g	30 pcs	450 pcs

SPRING LOADED BARREL BOLT

L=R STAINLESS 304 STEEL STAINLESS **BLS**

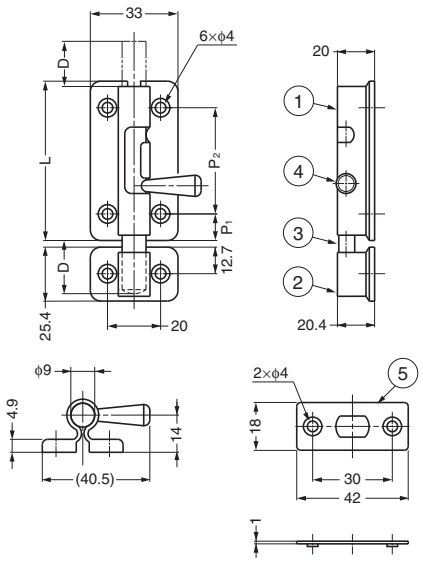


■Features

- Ideal for harsh and high corrosion environments.
- Knob springs back into sleeve to keep bolt in locked or unlocked position.
- Can be installed vertically or horizontally.
- 2 counter plates included for different mountings.

■Parts Included

Countersunk head wood screw 3.5×20 (SUS)

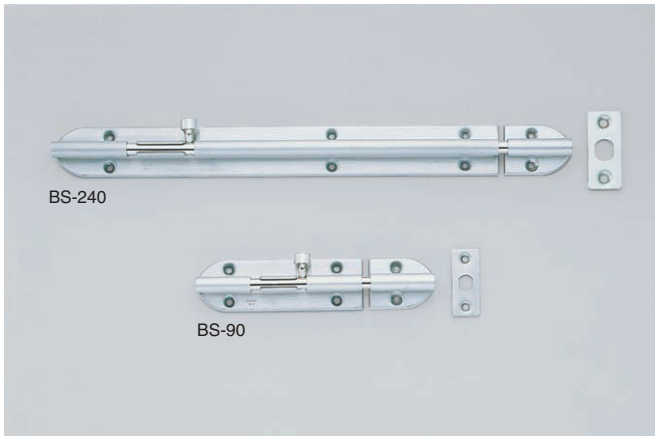


No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Strike	Stainless Steel (SUS304)	Satin
③	Bar	Stainless Steel (SUS303)	—
④	Knob	Stainless Steel (SUS303)	—
⑤	Counter Plate	Stainless Steel (SUS304)	Satin

Item Code	Item Name	L	P_1	P_2	D	Weight	Box	Carton
140-052-000	BLS-60	60	10	40	17	109 g	20 pcs	200 pcs
140-052-001	BLS-90	90	12.5	65	24	147 g	15 pcs	150 pcs

BARREL BOLT

L=R STAINLESS 304 STEEL STAINLESS **BS**

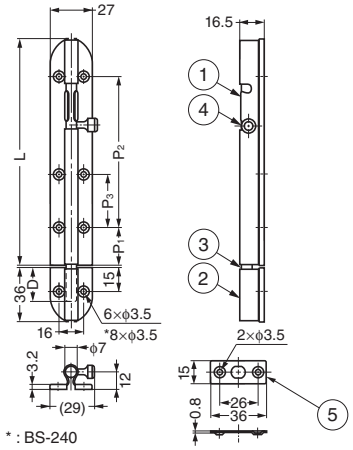


■Features

- Ideal for harsh and high corrosion environments.
- Can be installed vertically or horizontally.
- 2 counter plates included for different mountings.

■Parts Included

Countersunk head wood screw 3.1×16 (SUS)

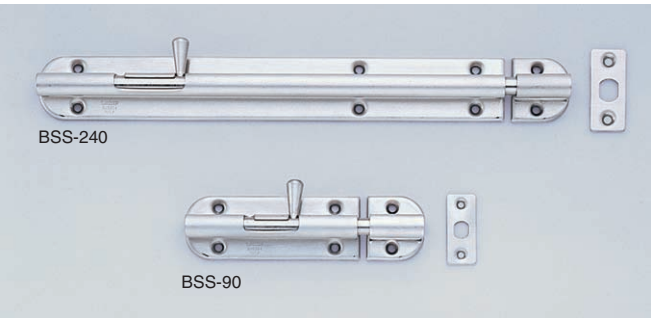


No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Strike	Stainless Steel (SUS304)	Satin
③	Bar	Brass	Nickel
④	Knob	Brass	Nickel
⑤	Counter Plate	Stainless Steel (SUS304)	Satin

Item Code	Item Name	L	P_1	P_2	P_3	D	Weight	Box	Carton
140-051-050	BS- 90	90	14.5	58	—	24	85 g	30 pcs	300 pcs
140-051-051	BS-150	150	25	100	—	24	125 g	20 pcs	200 pcs
140-051-052	BS-240	240	18.5	192	71	30	190 g	10 pcs	100 pcs

SPRING LOADED BARREL BOLT

L=R STAINLESS 304 STEEL STAINLESS **BSS**



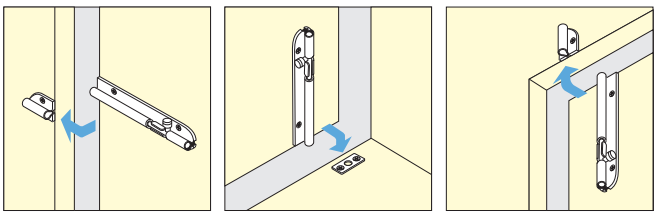
■Features

- Ideal for harsh and high corrosion environments.
- Knob springs back into sleeve to keep bolt in locked or unlocked position.
- Can be installed vertically or horizontally.
- 2 counter plates included for different mountings.

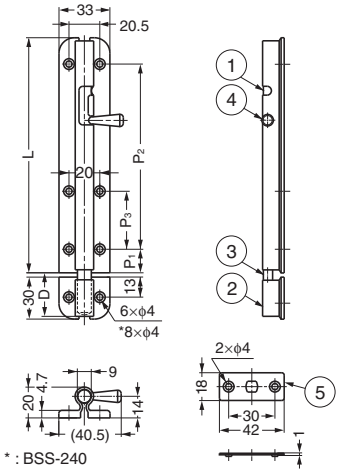
■Parts Included

Countersunk head wood screw 3.1×20 (SUS)

■Application Example



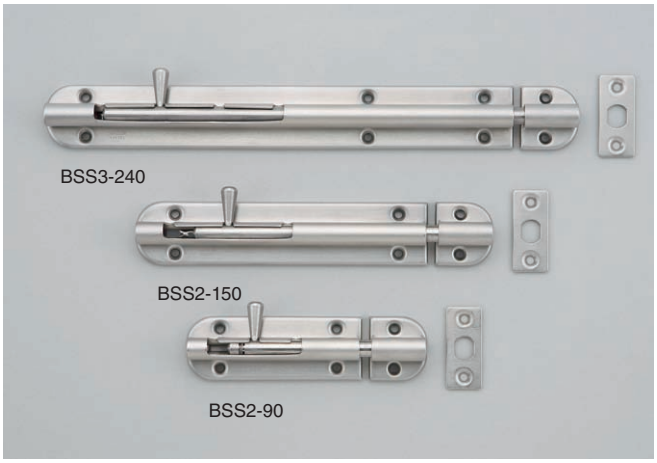
No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Strike	Stainless Steel (SUS304)	Satin
③	Bar	Stainless Steel (SUS303)	—
④	Knob	Stainless Steel (SUS303)	—
⑤	Counter Plate	Stainless Steel (SUS304)	Satin



Item Code	Item Name	L	P1	P2	P3	D	Weight	Box	Carton
140-052-002	BSS- 90	90	13	60	—	24	142 g	15 pcs	150 pcs
140-052-003	BSS-150	150	15	115	—	32	215 g	10 pcs	100 pcs
140-052-004	BSS-240	240	15	205	60	32	330 g	6 pcs	60 pcs

SPRING LOADED BARREL BOLT

L=R STAINLESS 304 STEEL STAINLESS **BSS2, BSS3**



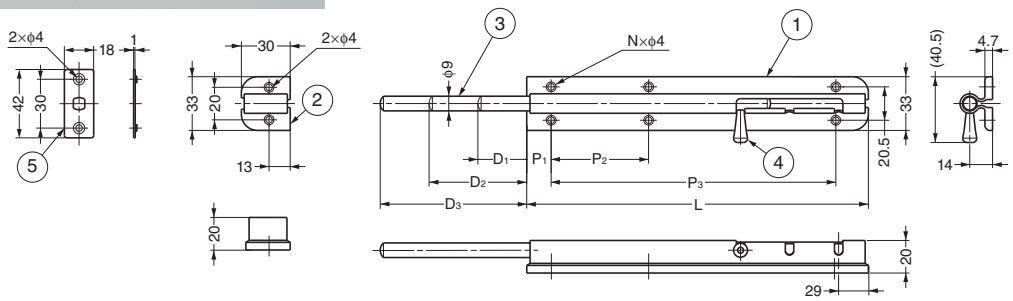
■Features

- Extra sleeve for locking offers flexibility in application.
- Ideal for harsh and high corrosion environments.
- Knob springs back into sleeve to keep bolt in locked or unlocked position.
- Can be installed vertically or horizontally.
- 2 counter plates included for different mountings.

■Parts Included

Countersunk head wood screw 3.5×20 (SUS)

No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Strike	Stainless Steel (SUS304)	Satin
③	Bar	Stainless Steel (SUS303)	—
④	Knob	Stainless Steel (SUS303)	—
⑤	Counter Plate	Stainless Steel (SUS304)	Satin



Item Code	Item Name	L	L2	P1	P2	P3	D1	D2	D3	N	Weight	Box	Carton
140-050-042	BSS2- 90	90	14	13	—	60	21	42	—	4	140 g	15 pcs	150 pcs
140-050-041	BSS2-150	150	18	15	—	115	30	60	—	4	212 g	10 pcs	100 pcs
140-050-043	BSS3-240	240	—	15	60	205	30	60	90	6	320 g	6 pcs	60 pcs

STAINLESS STEEL HASP (W/LATCH)

L=R STAINLESS 304 STEEL STAINLESS

HP-AK



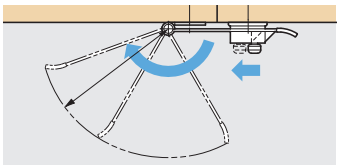
Material	Finish
Stainless Steel (SUS304)	Polished

■Features

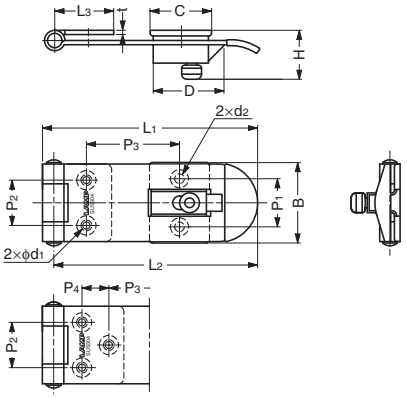
- Snap on the flap to keep latch closed.
- Ideal for harsh and high corrosion environments.
- Plastic cap on end to reduce noise.

■Parts Included

Countersunk head wood screw (SUS)



Slide the latch knob to release.



HP-AK75 Counter plate

Item Code	Item Name	L1	L2	L3	B	P1	P2	P3	P4	H	C	D	t	d1	d2	Screw	Weight	Box	Carton
140-180-801	HP-AK50	51	48	13	22.2	13.5	12	19	—	16.6	18	20.5	1.2	3	3.3	2.4×13	22 g	25 pcs	250 pcs
140-180-802	HP-AK65	66	63	19	24.2	13.5	14	28	—	16.6	18	20.5	1.5	3.2	3.3	2.7×16	35 g	20 pcs	200 pcs
140-180-803	HP-AK75	76	72	24.8	27.4	17	16	35	9.5	17.5	21.2	25	1.5	3.8	3.4	2.7×16	48 g	15 pcs	150 pcs

STAINLESS STEEL HASP

L=R STAINLESS 304 STEEL STAINLESS

HP



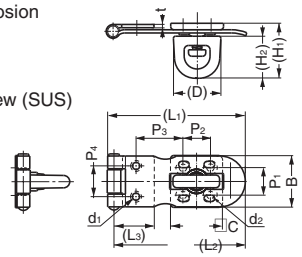
Material	Finish
Stainless Steel (SUS304)	Polished

■Features

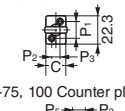
- Rotating padlock eye allows hasp to stay fastened tight without a padlock.
- Ideal for harsh and high corrosion environments.

■Parts Included

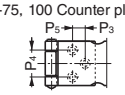
Countersunk head wood screw (SUS)



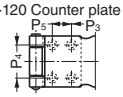
HP-40, 50, 65 Counter plate



HP-75, 100 Counter plate



HP-120 Counter plate

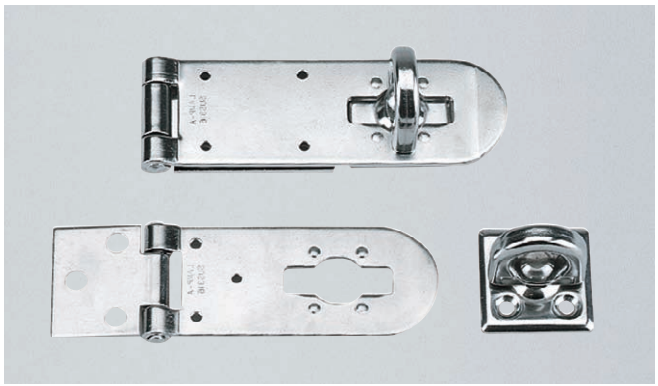


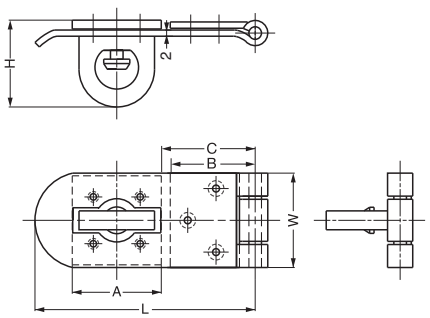
Item Code	Item Name	L1	L2	L3	B	P1	P2	P3	P4	P5	H1	H2	C	D	t	d1	d2	Screw	Weight	Box	Carton
140-050-224	HP- 40	40	37	13	22	13	6.4	10.8	12	—	22	17.9	15.3	17.7	1.2	2×ϕ3	2×ϕ3	2.4×13	21.5 g	30 pcs	300 pcs
140-050-225	HP- 50	50	47	13	22.3	13	9	16	12	—	22	17.9	18.3	17.7	1.2	2×ϕ3	2×ϕ3	2.4×13	24 g	25 pcs	250 pcs
140-050-226	HP- 65	65	62	19	24	13	13	21.5	14	—	24.5	20.4	24.5	22.5	1.5	2×ϕ3.2	4×ϕ3.2	2.7×16	41.5 g	20 pcs	200 pcs
140-050-227	HP- 75	75	72	24.8	27	15	15	15	16	9.5	27.4	22	27.8	23.2	1.5	3×ϕ3.8	4×ϕ3.8	2.7×16	51.5 g	15 pcs	150 pcs
140-050-228	HP-100	100	95	30	35.5	19	19	29	21	10	32.2	27.9	35.5	31	2	3×ϕ4	4×ϕ4.5	3.5×20	118.5 g	10 pcs	100 pcs
140-050-229	HP-120	120	115	35.5	40	21	21	38	26	15	34.8	27.9	40.5	31	2.5	4×ϕ5.2	4×ϕ5.2	3.5×20	172 g	8 pcs	80 pcs

STAINLESS STEEL HASP

L=R STAINLESS 316 STEEL

HP-635S, 645S, 660S





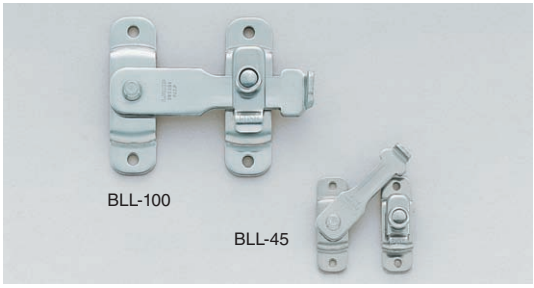
HP-635S

Material	Finish
316 Stainless Steel	Polished

Item Code	Item Name	L	W	A	B	C	H	Weight	Box	Carton
210-039-603	HP-635S	89	38	38	33	40	35	130 g	25 pcs	200 pcs
210-039-604	HP-645S	114			57	62		184 g	20 pcs	160 pcs
210-039-605	HP-660S	152	51		70	98		302 g	10 pcs	100 pcs

SPRING LOADED BAR LATCH

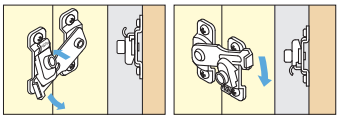
L=R STAINLESS 304 STEEL STAINLESS **BLL**

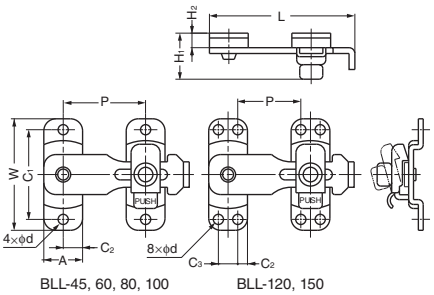


Material	Finish
Stainless Steel (SUS304)	Polished

■**Features**
- Ideal for harsh and high corrosion environments.
- Latch bolt snaps into the strike to prevent accidental release.
- Push tab on strike to release.

■**Parts Included**
Pan head tapping screw (SUS)





Item Code	Item Name	L	W	A	C_1	C_2	C_3	H_1	H_2	P	d	Screw	Weight	Box	Carton
140-059-073	BLL- 45	48	40	13	32	6.5	—	17	4.5	23± 3	3.2	3 ×10	28 g	20 pcs	400 pcs
140-059-074	BLL- 60	63	46	16	37	8	—	20	6	34± 4	4.2	3.5×16	50 g	20 pcs	400 pcs
140-059-075	BLL- 80	85	65	20	53	10	—	22.5	7	47± 7	5	4.5×16	100 g	10 pcs	200 pcs
140-059-076	BLL-100	105	80	25	66	12.5	—	26.5	8	59± 7	5.5	5 ×20	182 g	10 pcs	100 pcs
140-059-183	BLL-120	127	100	28.5	80	6.75	15	28	8	56±10	5.2	5 ×20	270 g	8 pcs	80 pcs
140-059-184	BLL-150	155	120	30.5	95	7.25	16	28	8	74±14	5.2	5 ×20	350 g	6 pcs	60 pcs

BAR LATCH

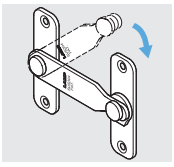
L=R STAINLESS 304 STEEL STAINLESS **BLT**

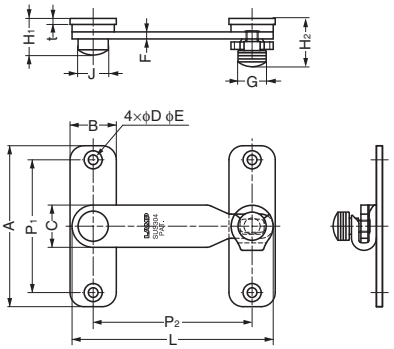


Material	Finish
Stainless Steel (SUS304)	Mirror

■**Features**
- Ideal for harsh and high corrosion environments.
- Mirror finish.
- Thick material used for durability.
- With thumb screw on bar to prevent accidental release.

■**Parts Included**
Countersunk head wood screw (SUS)





Item Code	Item Name	L	P_1	P_2	A	B	C	D	E	F	G	H_1	H_2	J	t	Screw	Weight	Box	Carton
140-050-252	BLT-45	45	30	33	40	14	12	3.5	6	2	9	12	16	9	2	3.1×20	31 g	20 pcs	400 pcs
140-050-253	BLT-60	60	37	45	48	17	15	3.8	7.5	2.5	10	14.5	17.5	10.8	2	3.1×20	54 g	20 pcs	400 pcs
140-050-254	BLT-80	80	53	62	65	21	18	4.3	8	3	12	17	22	13	3	3.5×20	95 g	10 pcs	200 pcs
140-050-255	BLT-100	100	66	79	80	24	21	4.8	9	4	14	19.8	25.5	15	3	3.8×20	177 g	10 pcs	100 pcs
140-050-256	BLT-120	120	73	98	90	28	24	5.1	10	4	16	22	27.5	18.5	4	4.5×20	243 g	8 pcs	80 pcs

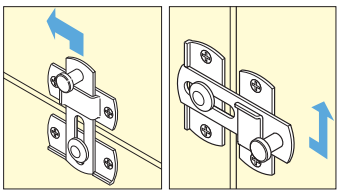
BAR LATCH

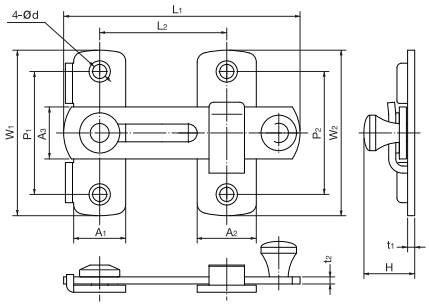
L=R STAINLESS STAINLESS 304 STEEL **SSL**



Material	Finish
304 Stainless Steel	Polished

■**Features**
- Latch can be locked by sliding-in the bar.
- Slide out and lift the bar to release.



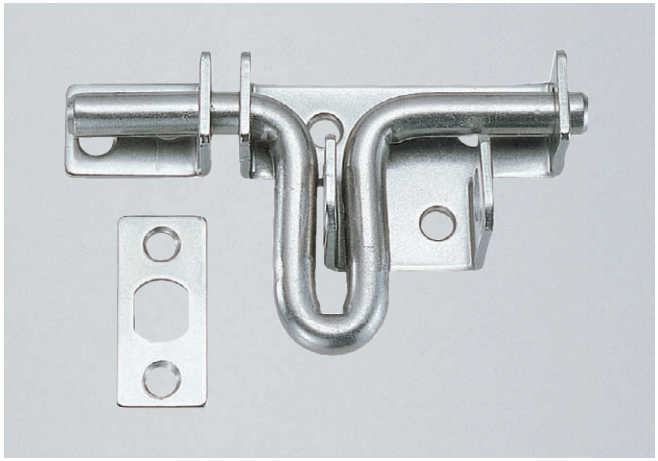


Item Code	Item Name	L_1	L_2	W_1	W_2	A_1	A_2	A_3	P_1	P_2	H	t_1	t_2	d	Screw	Weight	Box	Carton
140-059-179	SSL- 50	50	20±4	35	35	13	15	13	26	26	14.5	2	2	ϕ4.2, ϕ6.2	3x16	32 g	20 pcs	600 pcs
140-059-180	SSL- 70	70	28±6	50	50	18	20	18	37	37	19	2	2.5	ϕ5.2, ϕ8	3.5x16	68 g		360 pcs
140-059-176	SSL-100	100	45±15	70	70	22	25	22	52	52	21.5	3	3	ϕ5.8, ϕ9	4x25	142 g	10 pcs	160 pcs

GATE LATCH

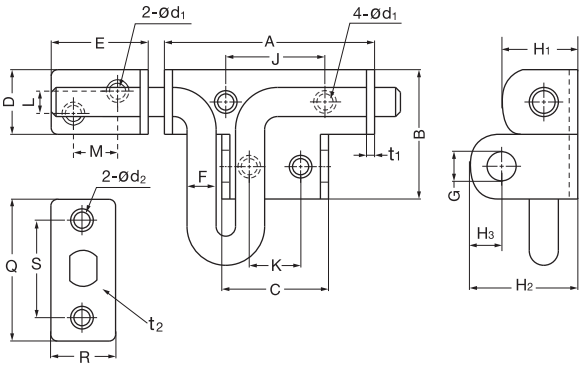
STAINLESS 304 STEEL

SSG



■Features

Gate latch with holes for pad lock. (Padlock not supplied.)



Item Code	Item Name	A	B	C	D	E	F	G	H_1	H_2	H_3
140-059-177	SSG-45	45	28	25	14	21	6	7	16	22	7.5
140-059-178	SSG-65	65	40	33	20	30	9	10	21	29	10.5
140-179-391	SSG-85	85	46	42	26	35	12		28	35	11

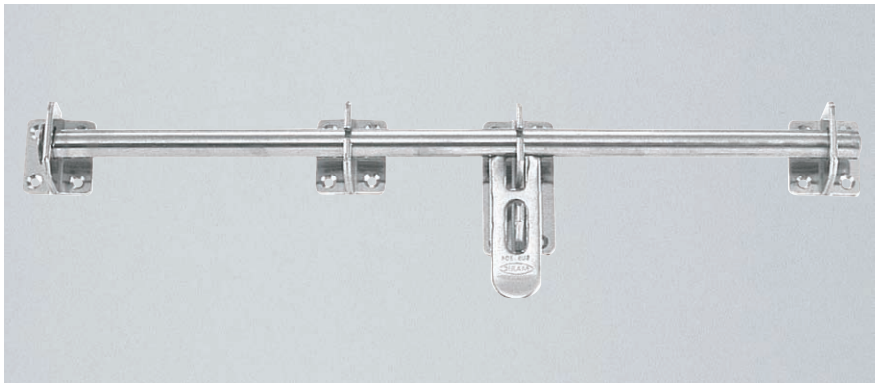
Material	Finish
304 Stainless Steel	Satin

Item Code	Item Name	J	K	L	M	Q	R	S	d_1	d_2	t_1	t_2	Weight	Box	Carton
140-059-177	SSG-45	22	11	2	8	32	15	22	4.8	4.8	2.0	1.2	65 g	20 pcs	240 pcs
140-059-178	SSG-65	30	14	4	14	40	18	28	5.9	5.9	2.5	1.5	175 g	10 pcs	100 pcs
140-179-391	SSG-85	38	21	8	17	48	22	35	6	5.2	3.0	1.5	400 g	5 pcs	60 pcs

LONG SLIDE BOLT

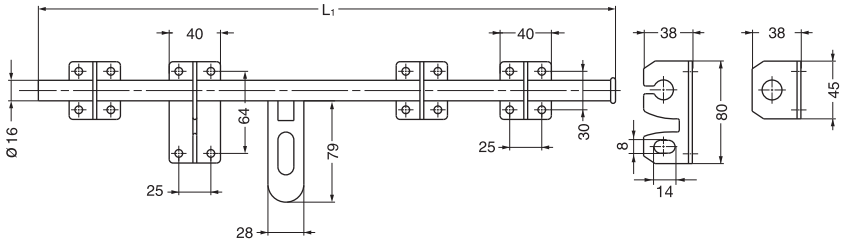
STAINLESS 304 STEEL

S-550



■Features

Long slide bolt with hole for pad lock. (Padlock not supplied.)



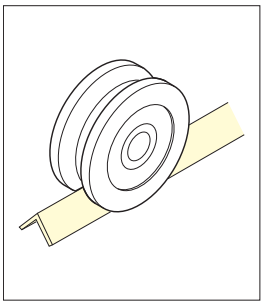
Item Code	Item Name	L_1	Weight	Box	Carton
270-179-159	S-550-300	300	905 g	2 pcs	40 pcs
270-179-160	S-550-450	450	1105 g		30 pcs
270-179-161	S-550-600	600	1360 g		20 pcs

Material	Finish
304 Stainless Steel	Polished

SLIDING DOOR ROLLER DIGEST (P.765)

■V Type

Load Capacity 3430～27440 N / 2 pcs (w/ Bracket)





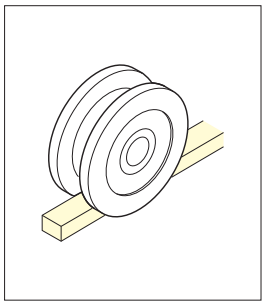
w/ Bracket



w/o Bracket

■U Type

Load Capacity 3430～27440 N / 2 pcs (w/ Bracket)





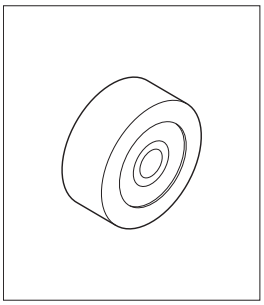
w/ Bracket



w/o Bracket

■Flat Type

Load Capacity 3430～27440 N / 2 pcs (w/ Bracket)





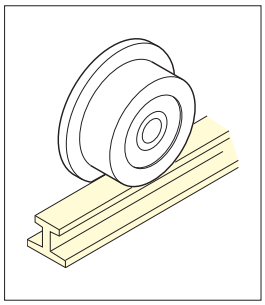
w/ Bracket



w/o Bracket

■L Type

Load Capacity 6370～27440 N / 2 pcs (w/ Bracket)





w/ Bracket



w/o Bracket

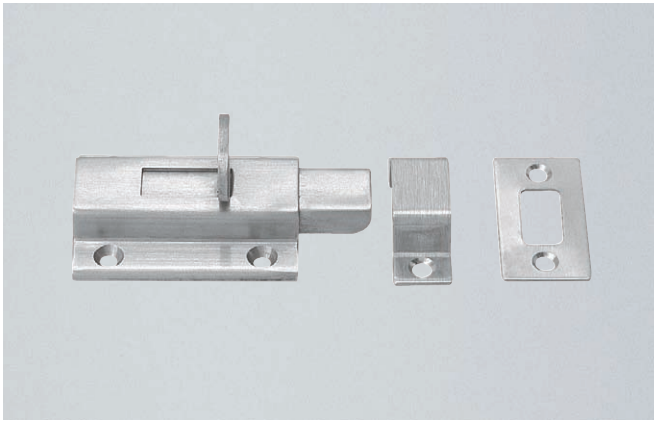
SLIDE BOLT

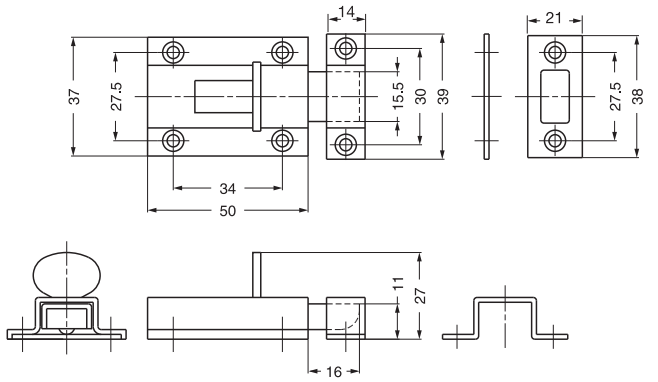
L=R

STAINLESS

STAINLESS 304 STEEL

KR-50





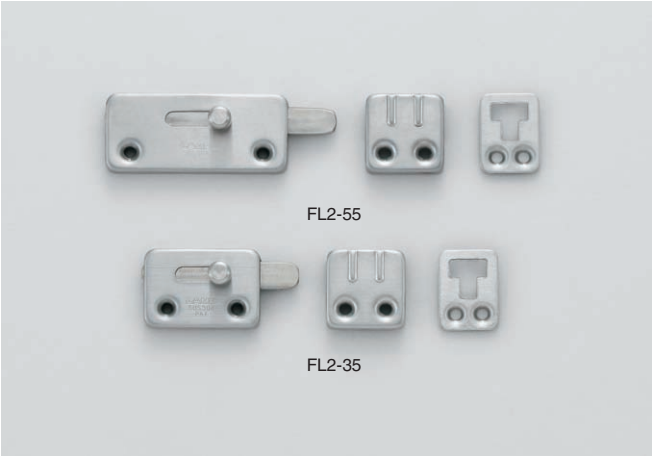
Item Code	Item Name	Weight	Box	Carton
120-913-942	KR-50	80 g	20 pcs	200 pcs

Material	Finish
304 Stainless Steel	Satin

SLIDE BOLT

L=R STAINLESS 304 STEEL STAINLESS

FL2

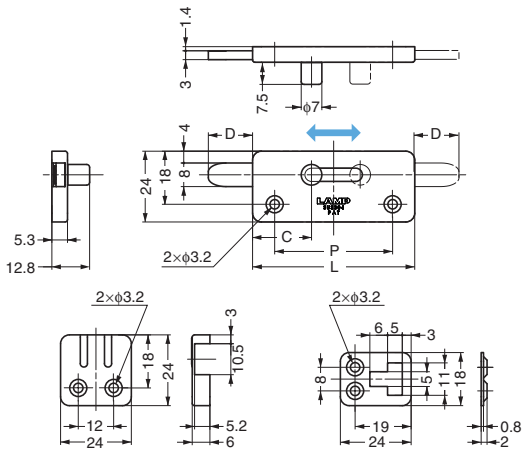


■Features

- Ideal for harsh and high corrosion environments.
- Slide the latch knob to release.
- Easy installation, flat and compact design for various application.
- 2 different counter plates included for different mountings.

■Parts Included

Countersunk head tapping screw 2.7×16 (SUS)

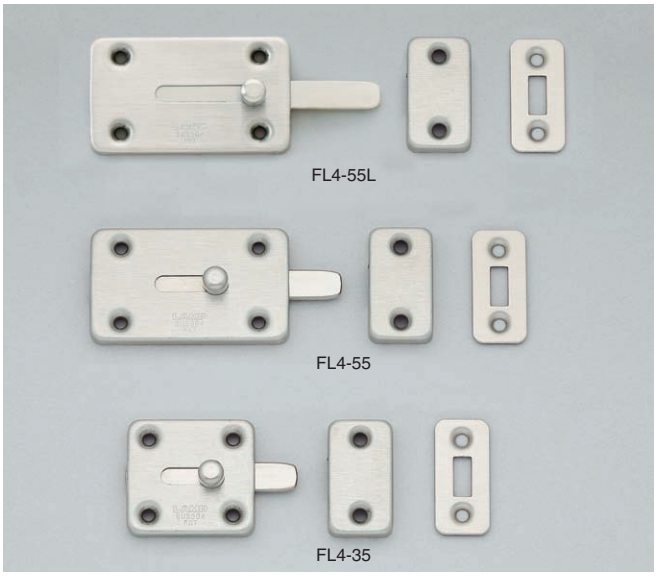


Item Code	Item Name	L	P	C	D	Material	Finish	Weight	Box	Carton
140-180-136	FL2-35	35	21	11.5	12	Stainless Steel (SUS304)	Satin	28 g	30 pcs	300 pcs
140-180-137	FL2-55	55	40	20	15	Stainless Steel (SUS304)	Satin	39 g	30 pcs	300 pcs

SLIDE BOLT

L=R STAINLESS 304 STEEL STAINLESS

FL4

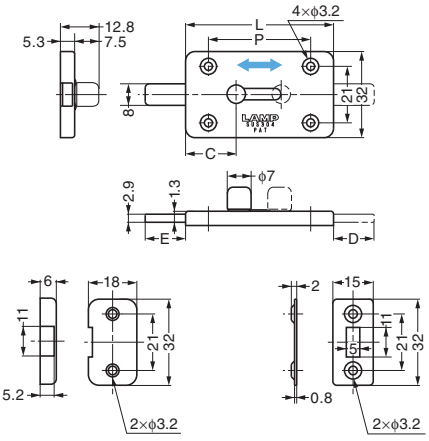


■Features

- Ideal for harsh and high corrosion environments.
- Slide the latch knob to release.
- Easy installation, flat and compact design for various application.
- 2 different counter plates included for different mountings.

■Parts Included

Countersunk head tapping screw 2.7×16 (SUS)



Item Code	Item Name	L	P	C	D	E	Material	Finish	Weight	Box	Carton
140-180-863	FL4-35	35	23	11.5	12	12	Stainless Steel (SUS304)	Satin	32 g	30 pcs	300 pcs
140-180-864	FL4-55	55	38	20	15	15	Stainless Steel (SUS304)	Satin	47 g	30 pcs	300 pcs
140-012-131	FL4-55L	55	38	20	25	15	Stainless Steel (SUS304)	Satin	47 g	30 pcs	300 pcs

LEVER BOLT

L=R STAINLESS 304 STEEL STAINLESS **HR35**



■Features

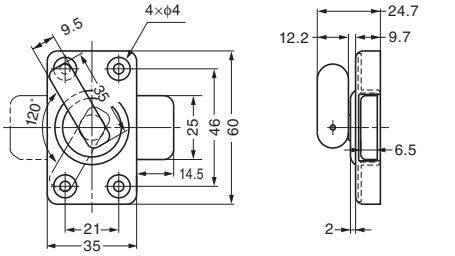
- Ideal for harsh and high corrosion environments.
- Turn the latch knob to open/close.
- Easy installation, flat and compact design for various application.
- 2 different counter plates included for different mountings.

■Parts Included

Countersunk wood screw 3.5×20 (SUS)

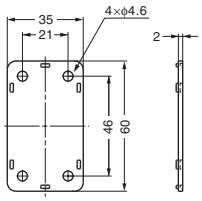
■Sold Separately

Spacer HR35SP-B



■Spacer (Sold Separately)





Spacer (Sold separately)

■Body

Item Code	Item Name	Material	Finish	Weight	Box	Carton
140-180-135	HR35	Stainless Steel (SUS304)	Satin	108 g	10 pcs	100 pcs

■Spacer (Sold Separately)

Item Code	Item Name	Material	Colour	Weight	Box	Carton
140-180-002	HR35SP-B	Polyamide (PA)	Black	5 g	250 pcs	2,500 pcs

SLIDING DOOR LATCH

L=R STAINLESS 304 STEEL STAINLESS **HC-30R**

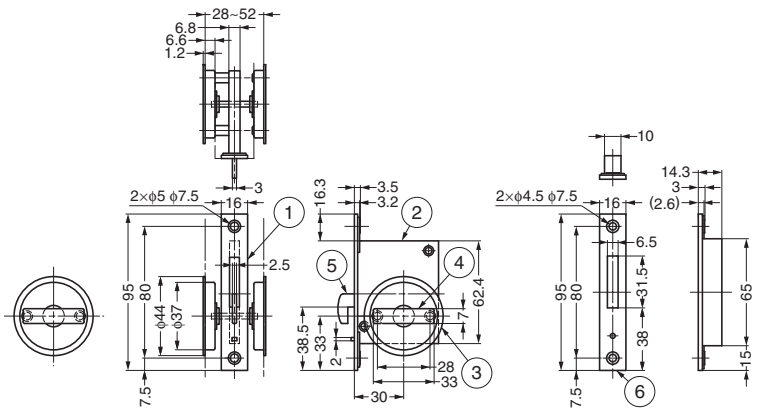


■Features

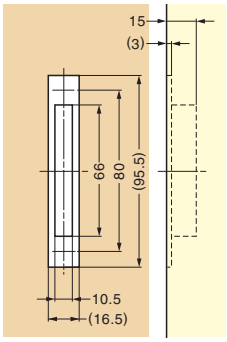
- Ideal for harsh and high corrosion environments.
- Can be locked from both side and prevents unexpected open/close.
- Easy installation, flat and compact design for various application.

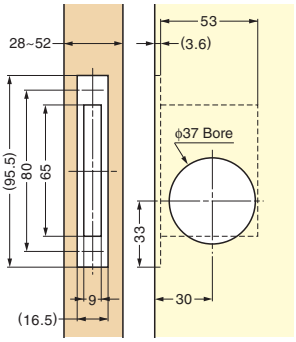
■Parts Included

Countersunk head wood screw 3.5×20 (SUS)



■Cut Out Dimensions





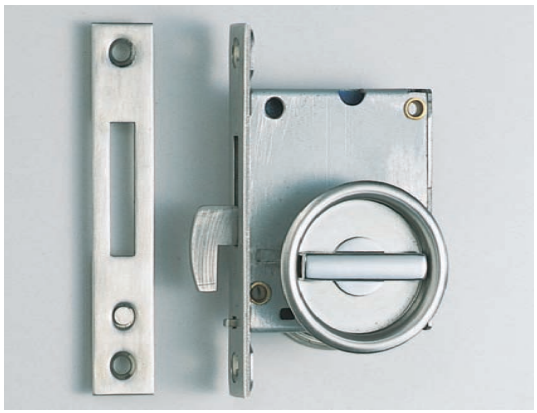
No.	Part Name	Material	Finish
①	Front Plate	Stainless Steel (SUS304)	Satin
②	Body	Steel (SECC)	(Zinc Chromate)
③	Body	Stainless Steel (SUS304)	Polished
④	Thumb	Zinc Alloy	Chrome
⑤	Deadbolt	Stainless Steel (SUS304)	Polished
⑥	Counter Plate	Stainless Steel (SUS304)	Satin

Item Code	Item Name	Door Thickness	Weight	Box	Carton
140-022-282	HC-30R	28 ～ 52	290 g	5 pcs	50 pcs

SLIDING DOOR LATCH

L=R STAINLESS 304 STEEL STAINLESS

HC-30



■Features

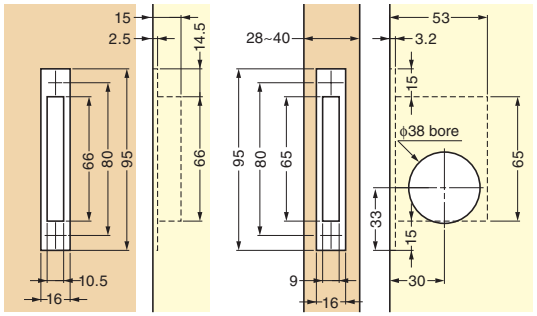
- Ideal for harsh and high corrosion environments.
- Easy installation, flat and compact design for various application.
- Can be unlocked from outside in case of emergency.

■Parts Included

Countersunk head wood screw 3.5×20 (SUS)



■Cut Out Dimensions

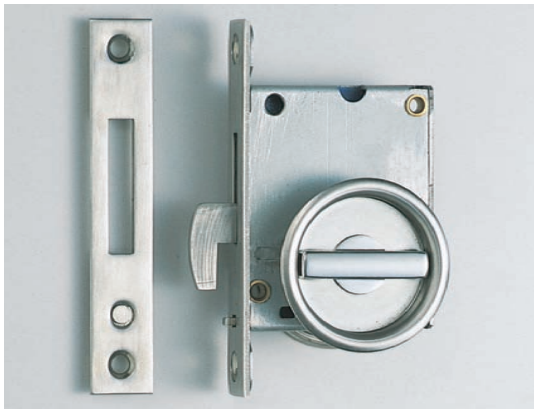


Item Code	Item Name	Door Thickness	Material	Finish	Weight	Box	Carton
140-183-251	HC-30	28～40	Stainless Steel (SUS304)	Satin	280 g	5 pcs	50 pcs

SLIDING DOOR LATCH W/INDICATOR

L=R STAINLESS 304 STEEL STAINLESS

HC-30H



■Features

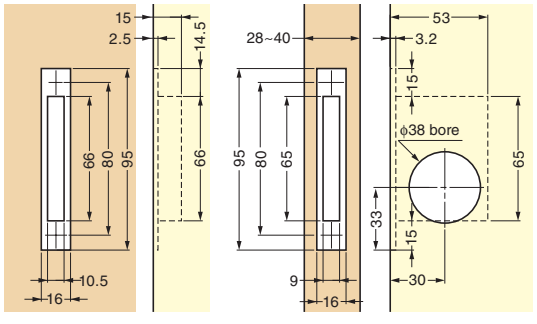
- Ideal for harsh and high corrosion environments.
- Sliding door latch with indicator.
- Easy installation, flat and compact design for various application.
- Can be unlocked from outside in case of emergency.

■Parts Included

Countersunk head wood screw 3.5×20 (SUS)



■Cut Out Dimensions

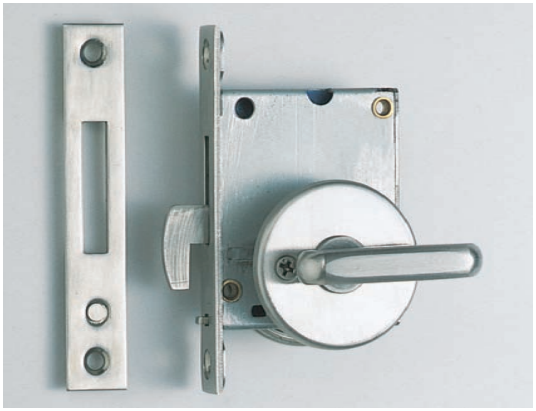


Item Code	Item Name	Door Thickness	Material	Finish	Weight	Box	Carton
140-183-250	HC-30H	28～40	Stainless Steel (SUS304)	Satin	280 g	5 pcs	50 pcs

SLIDING DOOR LATCH

L=R STAINLESS 304 STEEL STAINLESS

HC-30L



■Features

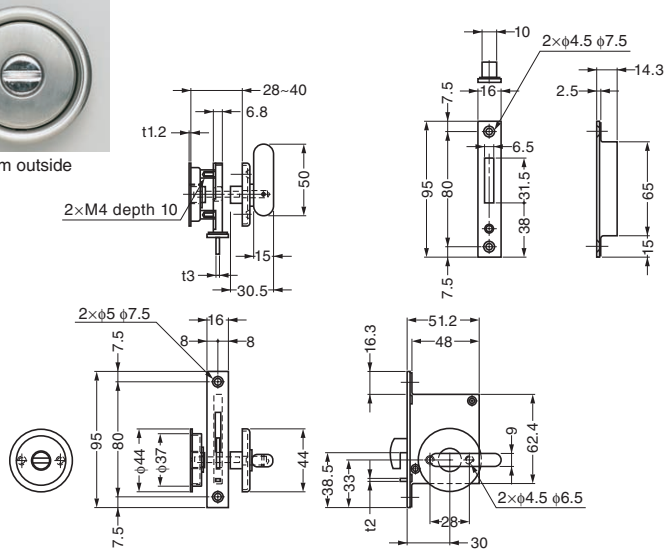
- Ideal for harsh and high corrosion environments.
- Large lever for barrier-free design.
- Easy installation, flat and compact design for various application.
- Can be unlocked from outside in case of emergency.

■Parts Included

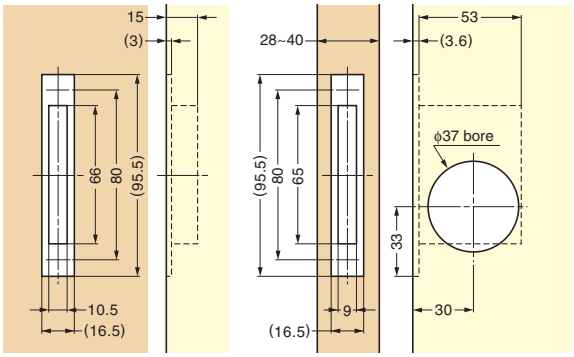
Countersunk head wood screw 3.5×20 (SUS)



From outside



■Cut Out Dimensions

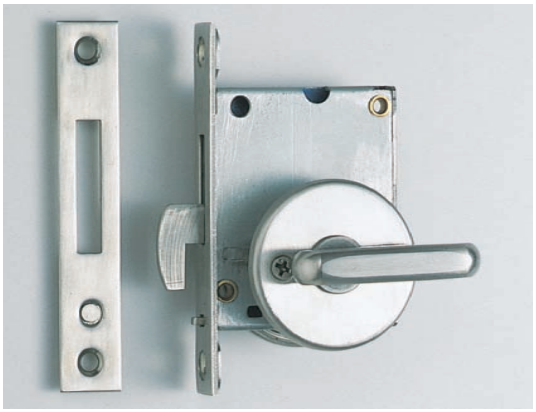


Item Code	Item Name	Door Thickness	Material	Finish	Weight	Box	Carton
140-183-253	HC-30L	28～40	Stainless Steel (SUS304)	Satin	330 g	5 pcs	50 pcs

SLIDING DOOR LATCH W/INDICATOR

L=R STAINLESS 304 STEEL STAINLESS

HC-30HL



■Features

- Ideal for harsh and high corrosion environments.
- Large lever for barrier-free design.
- Sliding door latch with indicator.
- Easy installation, flat and compact design for various application.
- Sliding door latch with indicator.

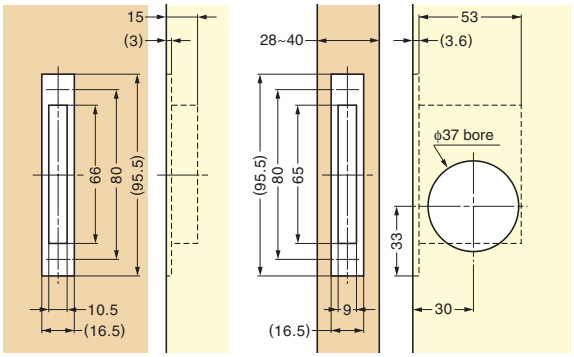
■Parts Included

Countersunk head wood screw 3.5×20 (SUS)



From outside

■Cut Out Dimensions

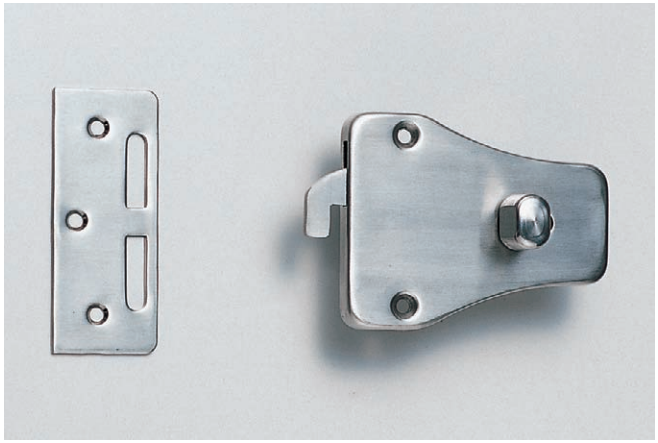


Item Code	Item Name	Door Thickness	Material	Finish	Weight	Box	Carton
140-183-252	HC-30HL	28～40	Stainless Steel (SUS304)	Satin	344 g	5 pcs	50 pcs

SLIDING DOOR LATCH

L=R STAINLESS 304 STEEL STAINLESS

HC-70

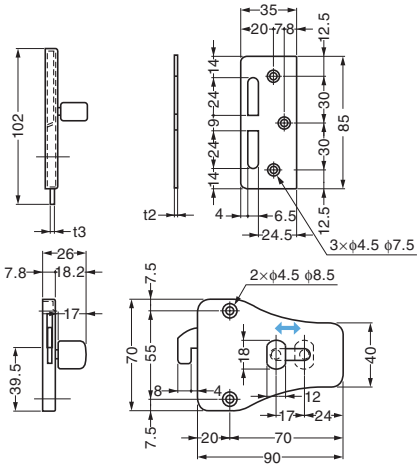


■Features

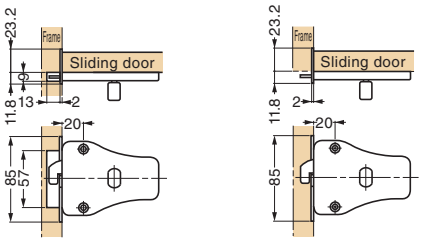
- Ideal for harsh and high corrosion environments.
- Large lever for barrier-free design.
- Easy installation, flat and compact design for various application.

■Parts Included

- Countersunk head wood screw 3.8×20 (SUS)
- Countersunk head wood screw 3.5×20 (SUS)



■Application Examples

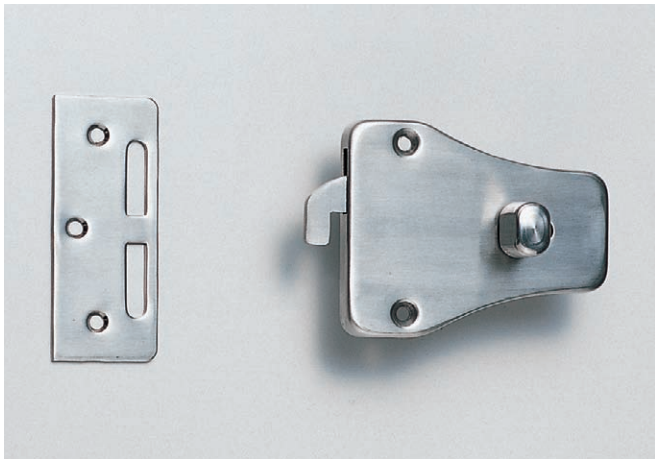


Item Code	Item Name	Material	Finish	Weight	Box	Carton
140-183-255	HC-70	Stainless Steel (SUS304)	Satin	209 g	5 pcs	50 pcs

SLIDING DOOR LATCH W/INDICATOR

L=R STAINLESS 304 STEEL STAINLESS

HC-70H



■Features

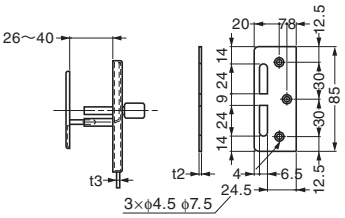
- Ideal for harsh and high corrosion environments.
- Large lever for barrier-free design.
- Sliding door latch with indicator.
- Easy installation, flat and compact design for various application.

■Parts Included

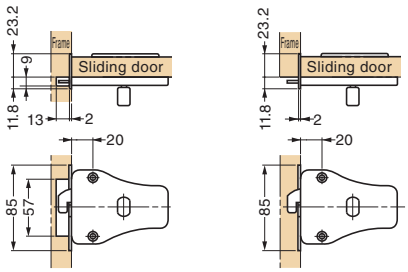
- Countersunk head wood screw 3.8×20 (SUS)
- Countersunk head wood screw 3.5×20 (SUS)



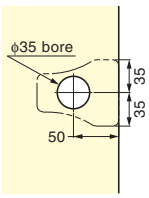
From outside

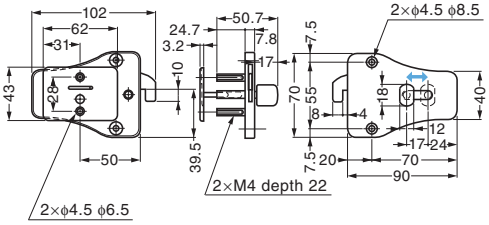


■Application Examples



■Cut Out Dimensions





Item Code	Item Name	Material	Finish	Weight	Box	Carton
140-183-254	HC-70H	Stainless Steel (SUS304)	Satin	320 g	5 pcs	50 pcs

SLIDING DOOR LATCH W/INDICATOR

L=R STAINLESS 304 STEEL STAINLESS

HHC-85





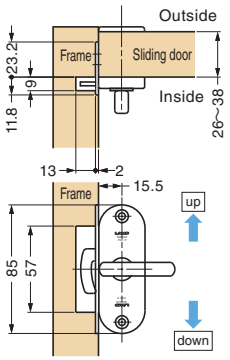
■Features

- Ideal for harsh and high corrosion environments.
- Large lever for barrier-free design.
- Non-Handed: Can be installed on left or right side.
- For door thickness: 26 mm-38 mm
- Can be unlocked from outside in case of emergency.

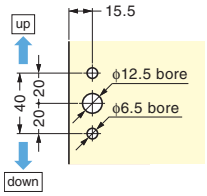
■Parts Included

- Countersunk head wood screw 3.8×20 (SUS)
- Countersunk head wood screw 3.5×20 (SUS)

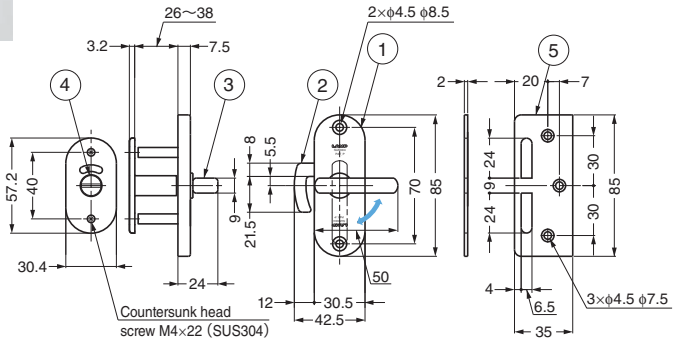
■Application Example



■Cut Out Dimensions



* Left-handed shown. This will be upside down in case of right-handed application.



No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Deadbolt	Stainless Steel (SUS304)	Polished
③	Lever	Stainless Steel (SUS304)	Polished
④	Shaft	Brass	Chrome
⑤	Counter Plate	Stainless Steel (SUS304)	Satin

Item Code	Item Name	Weight	Box	Carton
140-180-000	HHC-85	120 g	6 pcs	30 pcs

SLIDING DOOR LATCH W/INSIDE INDICATOR

L=R STAINLESS 304 STEEL STAINLESS

HC-85SS



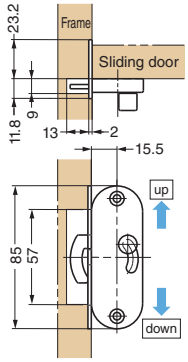
■Features

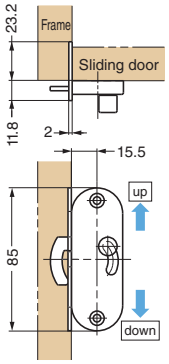
- Ideal for harsh and high corrosion environments.
- Surface mount door latch with indicator.
- Non-Handed: Can be installed on left or right side.

■Parts Included

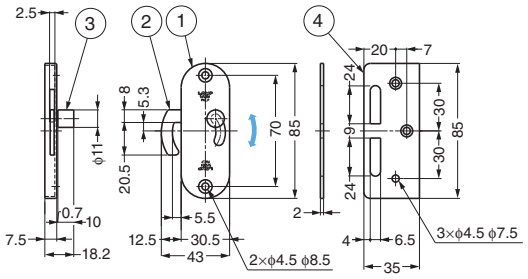
- Countersunk head wood screw 3.8×20 (SUS)
- Countersunk head wood screw 3.5×20 (SUS)

■Application Examples





* Left-handed shown. This will be upside down in case of right-handed application.



No.	Part Name	Material
①	Body	Stainless Steel (SUS304)
②	Deadbolt	Stainless Steel (SUS304)
③	Knob	Stainless Steel (SUS303)
④	Counter Plate	Stainless Steel (SUS304)

Item Code	Item Name	Finish	Weight	Box	Carton
140-170-074	HC-85SS	Satin	120 g	20 pcs	100 pcs

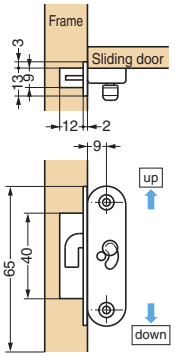
SLIDING DOOR LATCH W/INSIDE INDICATOR

L=R | STAINLESS 304 STEEL | STAINLESS

HC-65



■Application Example

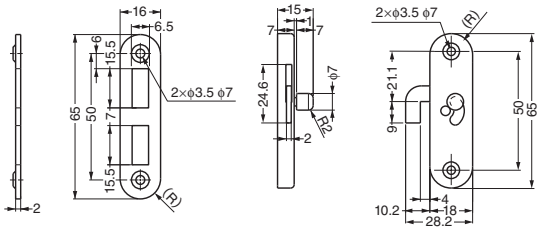


■Features

- Ideal for harsh and high corrosion environments.
- Surface mount door latch with indicator.
- Non-Handed: Can be installed on left or right side.

■Parts Included

- Countersunk head tapping screw 3×16 (SUS)
- Countersunk head tapping screw 3.1×16 (SUS)



Item Code	Item Name	Material	Finish	Weight	Box	Carton
140-180-578	HC-65	Stainless Steel (SUS304)	Satin	41 g	20 pcs	200 pcs

SLIDING DOOR LOCK

SB, SBU

SB



SBU



* Pearl Chrome (Pcr), Satin Gold (SG) can be produced as special order.

■SB

Item Code	Item Name	Type	Colour	Door Thickness	Back Set	Box
—	D238K-ZK-3SB (Cr/G/N)	Without Indicator	Chrome Gold Nickel	36-40	38	30 pcs
—	D238K-ZK-4SB (Cr/G/N)	With Indicator		36-40		
—	D238K-ZK-5SB (Cr/G/N)	With Cylinder Lock		40		
—	D251K-ZK-3SB (Cr/G/N)	Without Indicator		36-40	51	
—	D251K-ZK-4SB (Cr/G/N)	With Indicator		36-40		
—	D251K-ZK-5SB (Cr/G/N)	With Cylinder Lock		40		

■SBU (Large lever)

Item Code	Item Name	Type	Colour	Door Thickness	Back Set	Box
—	D238K-ZK-3SBU (Cr/G/N)	Without Indicator	Chrome Gold Nickel	36-40	38	30 pcs
—	D238K-ZK-4SBU (Cr/G/N)	With Indicator		36-40		
—	D238K-ZK-5SBU (Cr/G/N)	With Cylinder Lock		40		
—	D251K-ZK-3SBU (Cr/G/N)	Without Indicator		36-40	51	
—	D251K-ZK-4SBU (Cr/G/N)	With Indicator		36-40		
—	D251K-ZK-5SBU (Cr/G/N)	With Cylinder Lock		40		

SLIDING DOOR LOCK

SC, SCU

SC



SCU



* Pearl Chrome (Pcr), Satin Gold (SG) can be produced as special order.

■SC

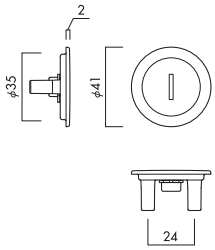
Item Code	Item Name	Type	Colour	Door Thickness	Back Set	Box
—	D238K-ZK-3SC (Cr/G/N)	Without Indicator	Chrome Gold Nickel	36-40	38	30 pcs
—	D238K-ZK-4SC (Cr/G/N)	With Indicator		36-40		
—	D238K-ZK-5SC (Cr/G/N)	With Cylinder Lock		40		
—	D251K-ZK-3SC (Cr/G/N)	Without Indicator		36-40	51	
—	D251K-ZK-4SC (Cr/G/N)	With Indicator		36-40		
—	D251K-ZK-5SC (Cr/G/N)	With Cylinder Lock		40		

■SCU (Large lever)

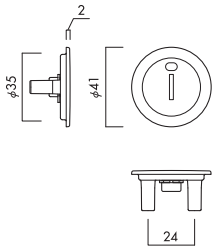
Item Code	Item Name	Type	Colour	Door Thickness	Back Set	Box
—	D238K-ZK-3SCU (Cr/G/N)	Without Indicator	Chrome Gold Nickel	36-40	38	30 pcs
—	D238K-ZK-4SCU (Cr/G/N)	With Indicator		36-40		
—	D238K-ZK-5SCU (Cr/G/N)	With Cylinder Lock		40		
—	D251K-ZK-3SCU (Cr/G/N)	Without Indicator		36-40	51	
—	D251K-ZK-4SCU (Cr/G/N)	With Indicator		36-40		
—	D251K-ZK-5SCU (Cr/G/N)	With Cylinder Lock		40		

SB type

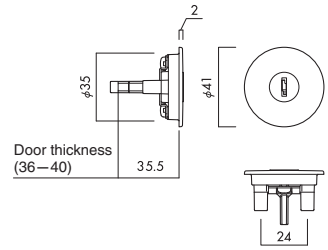
●3SB/3SBU (Outside)



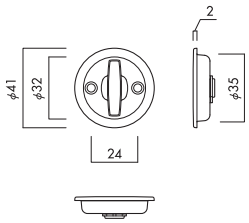
●4SB/4SBU (Outside)



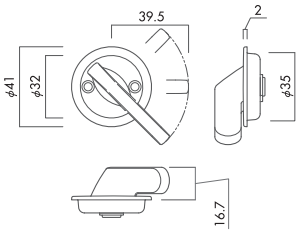
●5SB/5SBU (Outside)



●3SB/4SB/5SB (Inside)

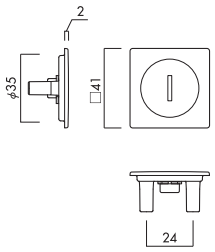


●3SBU/4SBU/5SBU (Inside)

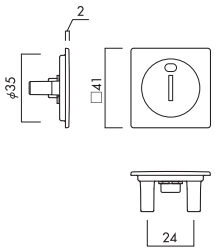


SC type

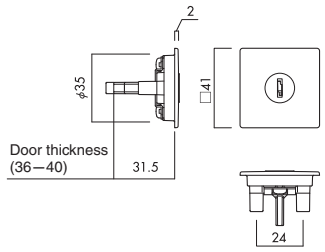
●3SC/3SCU (Outside)



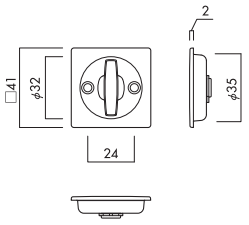
●4SC/4SCU (Outside)



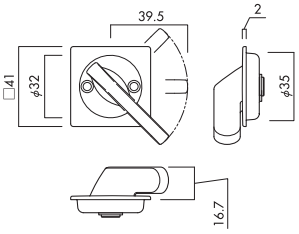
●5SC/5SCU (Outside)



●3SC/4SC/5SC (Inside)

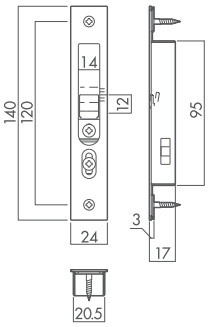


●3SCU/4SCU/5SCU (Inside)





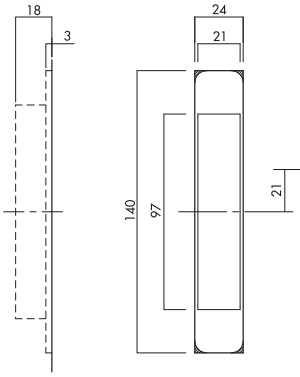
●Counter Plate



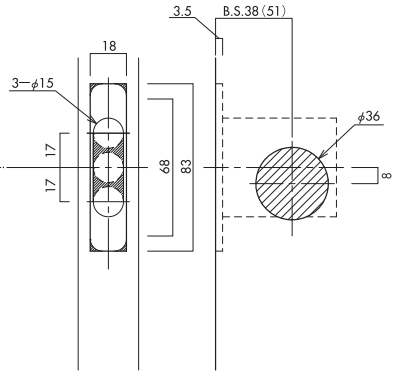
PROCESS

SB·SBU·SC·SCU type

●Frame



●Door

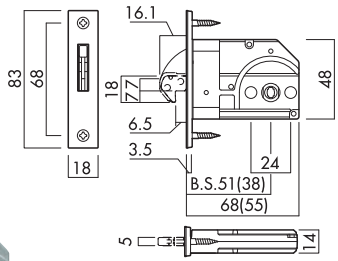


Lock (Back set 38 mm)



Lock (Back set 51 mm)





*Dimension in ( ) is for 38 mm Back set

SLIDING DOOR LATCH

L=R STEEL **HC-3051**



Latch Body & Strike



Base



Privacy (PRV) Indicator (IND) Cylinder Lock (CLD) Double sided slide (DSL)

The opposite side of every model has a slide handle as shown for the "DSL" type (above).

■Features

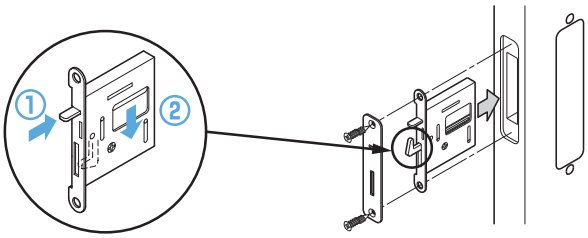
- Recessed latch handle for wooden sliding doors.
- 4 bases available.
- Possible to install the backset at any position between 30 mm and 51 mm from the door edge.
- Ideal for narrow lock stile door.
- Applicable door thickness: 35 - 45 mm. 3 different lengths of spindles and 2 different lengths of screws are included. Initial setting is for 38 mm door.
- Non-handed.

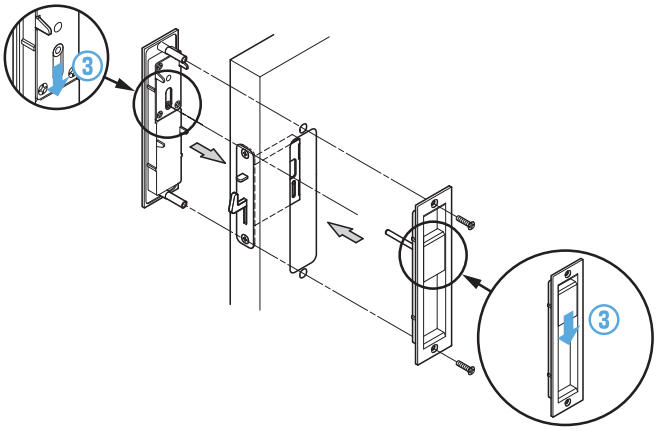
■Application

For residential interior sliding door.

■Remarks

- Before inserting the base to the door, make sure to do the 3 steps below. Otherwise, the latch will not work properly.
- The latch can work only when door closed completely.





■Parts Included

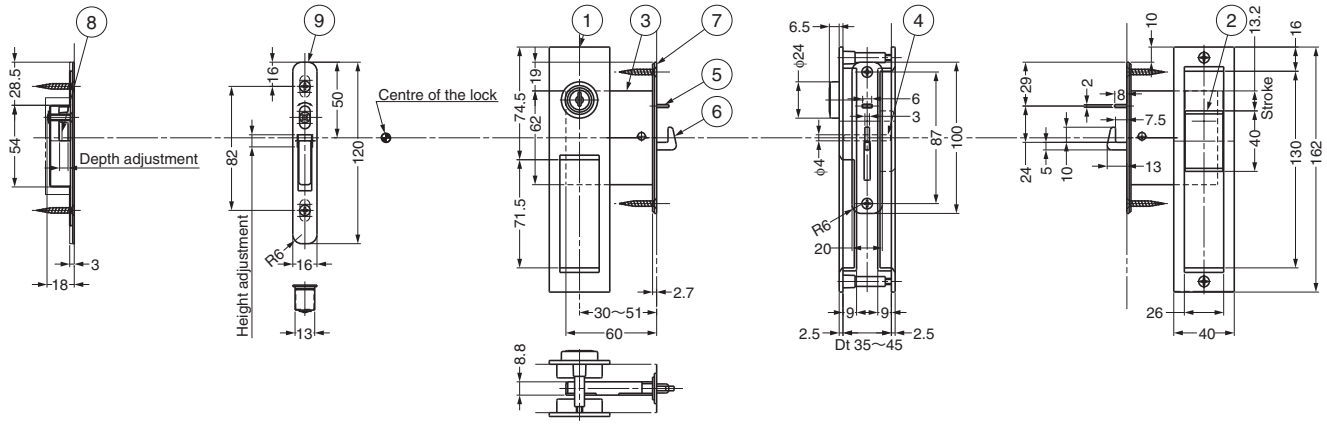
- Spindles ϕ4 x 35, ϕ4 x 39, ϕ4 x 43 (SWCH)
- Countersunk head tapping screw 3.5 x 25 (SUS) for strike & latch body
- Countersunk head screw M4 x 20, M4 x 25 (SUS) for square handle

No.	Part Name	Material	Finish
①	Base	Zinc Alloy	Nickel
②	Knob	Zinc Alloy	Nickel
③	Latch Body	Steel (SECC)	Plain
④	Spindle	Steel (SWCH)	Chromate
⑤	Trigger	Stainless Steel (SUS304)	Polished
⑥	Bolt	Stainless Steel (SUS304)	Polished
⑦	Front Plate (Latch)	Stainless Steel (SUS304)	Satin
⑧	Strike	Steel (SECC)	Plain
⑨	Front Plate (Strike)	Stainless Steel (SUS304)	Satin

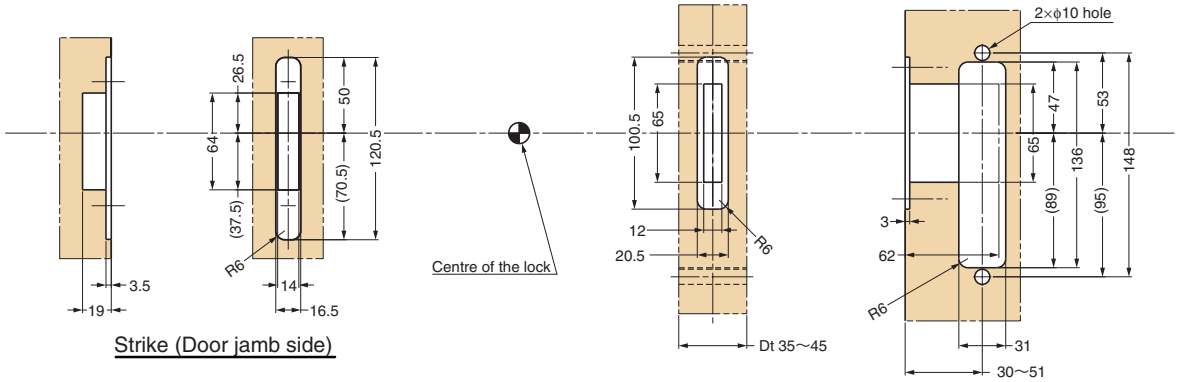
Item Code	Item Name	Type	Weight	Box	Carton
140-032-752	HC-3051-PRV-NI	Privacy	531 g	1 pc	20 pcs
140-032-753	HC-3051-IND-NI	Indicator	535 g	1 pc	20 pcs
140-032-754	HC-3051-CLD-NI	Cylinder Lock	557 g	1 pc	20 pcs
140-032-755	HC-3051-DSL-NI	Double Sided Slide	511 g	1 pc	20 pcs

■Dimensions

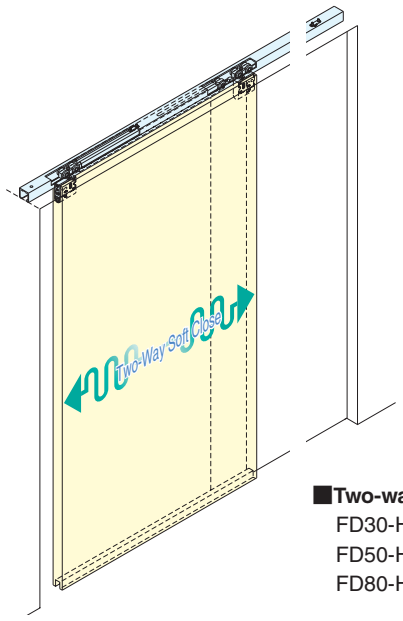
HC-3051-CLD-NI is shown.



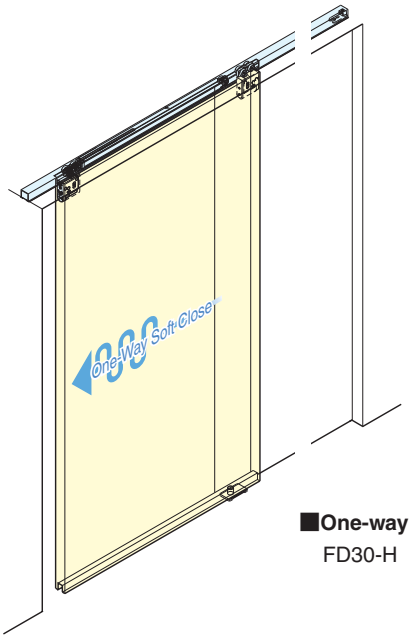
■Cut Out Dimensions



SLIDING DOOR SYSTEM DIGEST (P.666～ 687)



■Two-way Soft Close
FD30-H
FD50-H
FD80-H



■One-way Soft Close
FD30-H

Zwei L

Mirror-like clear lake.

Satin- like refined silk.

two lights
Zwei Lichter interweaves the finest architectural hardware.

"Z" stands for ultimate and "L" signifies Light and LAMP®.

Zwei L is SUGATSUNE's flagship brand.

Video Link









Zwei L®







Zwei L series is developed to rest upon the universal standard of the architectural hardware based on industrial and architectural module.

Outline produced from module progression.

Cool and hard SUS316 with high corrosion resistance

They bring calm harmony to architectural space.

LEVER BOLT

L=R STAINLESS 316 STEEL STAINLESS

ZL-2401

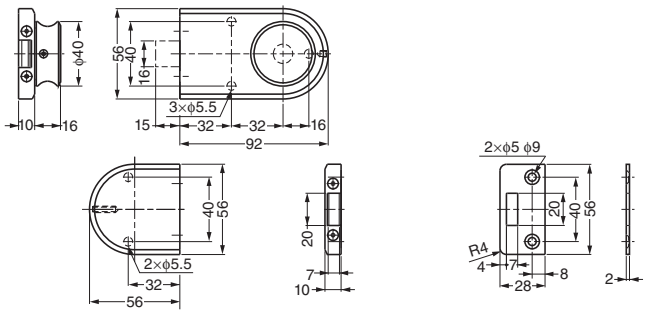


■Features

Superior finish of Mirror/Satin.

■Sold Separately

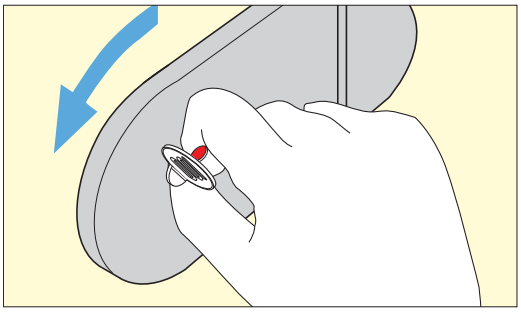
- Indicator: ZL-2401-INR (for wood)
- Indicator: ZL-2401-INR-GB (for glass)



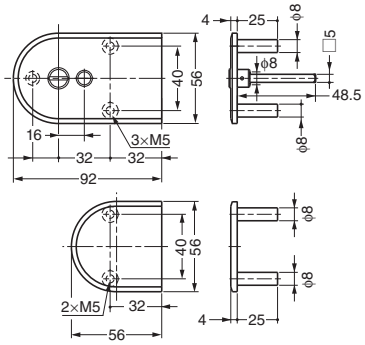
■Indicator (Sold Separately)



■How to Open in Case of Emergency



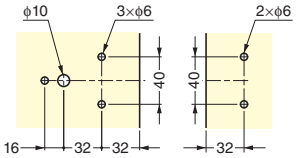
Can be unlocked by turning the coin 90˚.



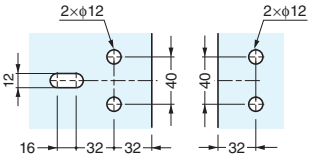
Indicator: ZL-2401-INR (for wood)

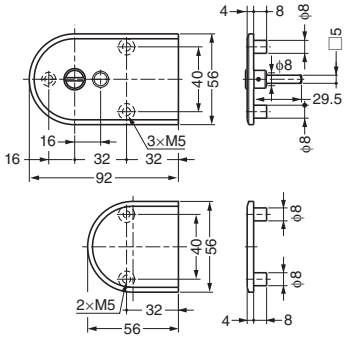
■Cut Out Dimensions

Door (wood)



Door (glass)





Indicator: ZL-2401-INR-GB (for glass)

■Body

Item Code	Item Name	Door Thickness	Material	Finish	Weight	Box
140-050-401	ZL-2401	Wooden Door : 28～40/Glass Door : 8, 10, 12	Stainless Steel (SUS316)	Zwei L Finish	835 g	1 pc

■Indicator (Sold Separately)

Item Code	Item Name	Type	Material	Finish	Weight	Box
140-050-404	ZL-2401-INR	Wooden Door	Stainless Steel (SUS316)	Zwei L Finish	332 g	1 pc
140-050-405	ZL-2401-INR-GB	Glass Door	Stainless Steel (SUS316)	Zwei L Finish	317 g	1 pc

GLASS SLIDING DOOR LATCH

STAINLESS 304 STEEL

XL-MT120-H



■Features

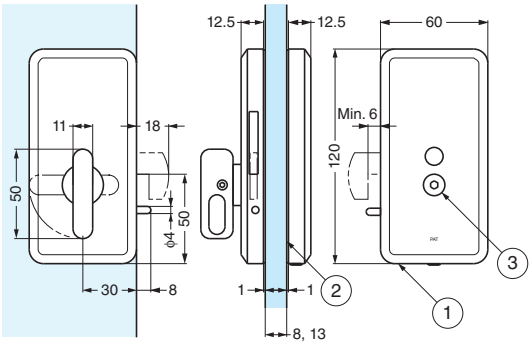
- Lock with indicator for glass sliding door.
- Can be unlocked by turning emergency release pin with supplied allen key. (Hex size 4 mm)

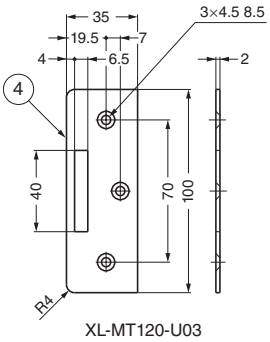
■Remarks

- Made to order.
- Not recommended for applications with direct water exposure.

■Parts Included

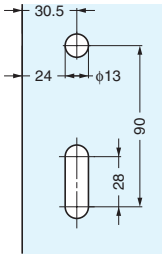
Counter plate XL-MT120-U03





XL-MT120-U03

■Cut Out Dimensions



No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Satin
②	Gasket	Polypropylene (PP)	Natural
③	Emergency Release Pin	Brass	Chrome
④	Counter Plate	Stainless Steel (SUS304)	Satin

Item Code	Item Name	Type	Door Thickness	Weight	Box	Carton
140-060-628	XL-MT120-H01	Right	8, 13	567 g	1 pc	12 pcs
140-060-627	XL-MT120-H02	Left	8, 13	567 g	1 pc	12 pcs

*Door thickness: 8 mm for glass, 13 mm for melamine board

COUNTER PLATE

STAINLESS 304 STEEL

XL-MT120-U



■Features

- For XL-MT120-H.
- Designed for double sliding door.

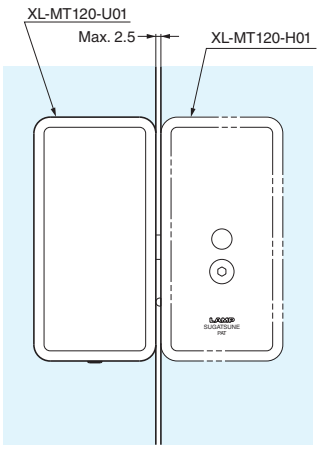
■Remarks

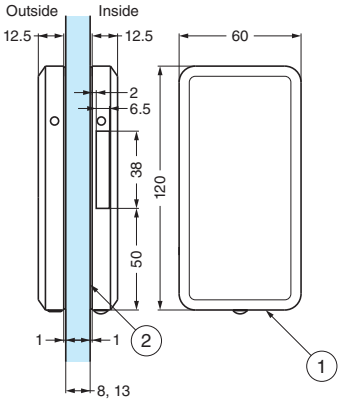
- Made to order.
- Not recommended for application with direct water exposure.

■Application Example

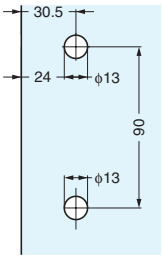


Right-handed is shown.





■Cut Out Dimensions



No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Satin
②	Gasket	Polypropylene (PP)	Natural

Item Code	Item Name	Type	Door Thickness	Weight	Box	Carton
140-060-626	XL-MT120-U01	Right	8, 13	415 g	1 pc	24 pcs
140-060-625	XL-MT120-U02	Left	8, 13	415 g	1 pc	24 pcs

*Door thickness: 8 mm for glass, 13 mm for melamine board

LATCH W/ INDICATOR

L=R STAINLESS 304 STEEL **ET-70FN**



■Features
- For inward opening and 13, 16, 20 mm thick door and side panel.
- Flat door application.

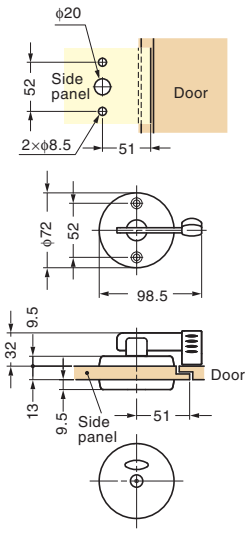
■Remarks
Spacer (Option) allows to use with 13 mm door and 16/20 mm side panel.

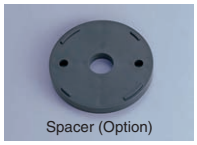
■Parts Included
Hex key

■Option
Spacer / ET-3, ET-7

■Recommended Screw
Hexagon top bolt M5×25 (Side panel thickness 13, 16 mm)
M5×30 (Side panel thickness 20 mm)

■Cut Out Dimensions





■Body

Item Code	Item Name	Door/Panel Thickness	Material	Finish	Weight	Box	Carton
140-180-545	ET-70FN	13, 16, 20	Stainless Steel (SUS304)	Satin	335 g	1 pc	50 pcs

■Spacer (Sold Separately)

Item Code	Item Name	Material	Colour	Thickness	Weight	Box	Carton
140-180-975	ET-3	ABS	Black	3	14 g	25 pcs	750 pcs
140-172-566	ET-7	ABS	Black	7	18 g	15 pcs	750 pcs

LATCH W/ INDICATOR

L=R STAINLESS 304 STEEL **ET-70DS**



■Features
- For inward opening.
- Overlapped door application.
- The wide gap between the door and panel prevents pinched fingers.

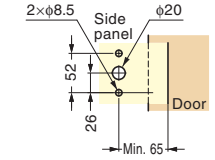
■Remarks
Please use a spacer according to the door thickness.

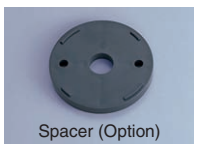
■Parts Included
Hex Key

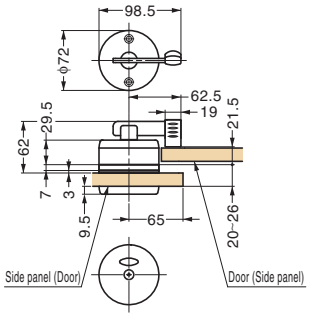
■Option
Spacer: ET-3, ET-7

■Recommended Screw
- Hexagon top bolt M5×50
- Hexagon top bolt M5×55

■Cut Out Dimensions







■Screw and Spacer Recommended

Part Name	Door Thickness 13 Sideboard Thickness 13	Door Thickness 16 Sideboard Thickness 16
Hexagon Top Bolt M5×50	2	0
Hexagon Top Bolt M5×55	0	2
ET-3 Spacer	0	1
ET-7 Spacer	1	1

■Body

Item Code	Item Name	Door/Panel Thickness	Material	Finish	Weight	Box	Carton
140-020-996	ET-70DS	Door : 13, 16 Side Panel : 13, 16	Stainless Steel (SUS304)	Satin	368 g	1 pc	50 pcs

■Spacer (Sold Separately)

Item Code	Item Name	Material	Color	Thickness	Weight	Box	Carton
140-180-975	ET-3	ABS	Black	3	14 g	25 pcs	750 pcs
140-172-566	ET-7	ABS	Black	7	18 g	15 pcs	750 pcs

LATCH W/ INDICATOR

L=R STAINLESS 304 STEEL

ET-70DN

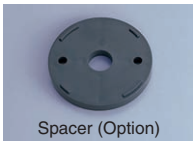


■Features
- For inward opening.
- Overlapped door application.

■Remarks
Please use a spacer according to the door thickness.

■Parts Included
Hex key

■Option
Spacer: ET-3, ET-7

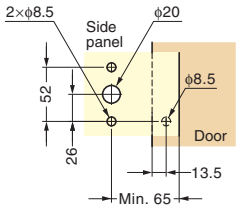

Spacer (Option)

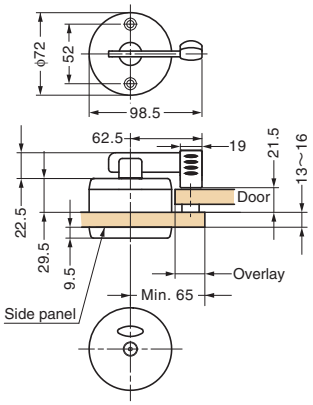
■Recommended Screw
- Body: Hexagon top bolt

	Side Panel Thickness 13	Side Panel Thickness 16	Side Panel Thickness 20
Door Thickness 13	M5×45	M5×45	M5×50
Door Thickness 16	—	M5×50	M5×55

- Door Stopper : Hexagon socket button head screw M4×10 (Sideboard thickness 13, 16 mm), M4×16 (Outside opening, sideboard thickness 20 mm), M4 washer.

■Cut Out Dimensions





■Body

Item Code	Item Name	Door/Panel Thickness	Material	Finish	Weight	Box	Carton
140-180-546	ET-70DN	Door : 13, 16 Side Panel : 13, 16, 20	Stainless Steel (SUS304)	Satin	371 g	1 pc	50 pcs

■Spacer (Sold Separately)

Item Code	Item Name	Material	Colour	Thickness	Weight	Box	Carton
140-180-975	ET-3	ABS	Black	3	14 g	25 pcs	750 pcs
140-172-566	ET-7	ABS	Black	7	18 g	15 pcs	750 pcs

LATCH W/ INDICATOR

L=R STAINLESS 304 STEEL

ET-125T

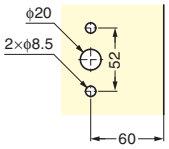


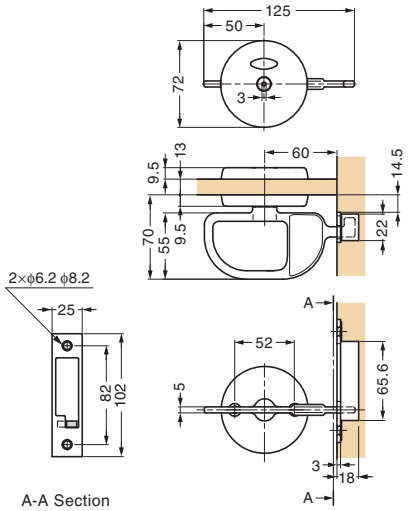


■Features
- For sliding door applications.
- Large handle for easy operation.

■Parts Included
Hex key

■Cut Out Dimensions





Item Code	Item Name	Door Thickness	Material	Finish	Weight	Box	Carton
140-188-843	ET-125T	13	Stainless Steel (SUS304)	Satin	442 g	1 pc	27 pcs

LOCKS

SUGATSUNE

CABINET LOCKS

Picture	Item Name	Series	Key Changes	Master Key Option	Page
	5830	—	3,120	780 changes per master key	310
	6830-30MK	—	7,800	750 changes per master key	312
	7810	Million Lock	1 million	2,520 changes per master key	313
	7810K	Million Lock	1 million	2,520 changes per master key	314
	8810 (W/ BUILT IN KEY CHANGE)	—	3 million	300 changes per master key	315
	2200QL	2200 Lock	300	170 changes per master key	316
	2200	2200 Lock	12 (300 special order)	170 changes (1 master only)	317
	2100	2100 Lock	12	—	318
	3810S STAINLESS 303 STEEL STAINLESS 304 STEEL	—	12 (300 special order)	300 changes (1 master only)	319
	3310	3310 Lock	156	—	320
	3320	3310 Lock	156	—	321
	2550	—	300	80 changes per master key	322
	2650	—	48 (2650-16) 120 (2650-22, 30)	—	323
	RH-80-D, RHL-80-D	—	3	—	358
	SK-80-D, SKL-80-D	—	3	—	358
	RC-180-D, RCL-180-D	—	3	—	359
	SC-180-D, SCL-180-D	—	3	—	359

PUSH LOCKS

Picture	Item Name	Series	Key Changes	Master Key Option	Page
	2150M, 2160M	—	24	—	324
	2300M	Million Lock	1 million	2,520 changes per master key	325
	2400M	—	47,000	1,000 changes per master key	325
	2100M	2100 Lock	12	—	326
	2110M	2100 Lock	12	—	326
	2100B	2100 Lock	12	—	346
	2110B	2100 Lock	12	—	346
	2150B, 2160B	—	24	—	347

CENTRAL LOCKING SYSTEMS

Picture	Item Name	Series	Key Changes	Master Key Option	Page
	ALS3310	3310 Lock	100	—	327
	1830-MK	—	7,800	750 changes per master key	328～329
	ALF1800	Million Lock	1 million	2,520 changes per master key	330～331
	ALF1600	3310 Lock	100	—	332～333
	ALS2200	2200 Lock	12 (300 special order)	170 changes (1 master only)	334
	ALS2100	2100 Lock	12	—	335

GLASS DOOR LOCKS

Picture	Item Name	Series	Key Changes	Master Key Option	Page
	XL-GC01	—	24	—	337
	XL-GC02	—	24	—	337
	XL-GC03	—	24	—	337
	1330GL-MK	—	7,800	750 changes per master key	340
	1300GL	Million Lock	1 million	2,520 changes per master key	341
	1310GL	Million Lock	1 million	2,520 changes per master key	342
	1310GLW	Million Lock	1 million	2,520 changes per master key	343
	2200GL	2200 Lock	12 (300 special order)	170 changes (1 master only)	344
	2100GL	2100 Lock	12	—	344
	MKL-2100	2100 Lock	1 (12 special order)	—	345
	6300-D	—	96	—	347
	2100GLK	2100 Lock	12	—	348

CAM LOCKS

Picture	Item Name	Series	Key Changes	Master Key Option	Page
	DIS-022R-D	—	1	—	348
	NO990	—	40,000	—	349
	920BS	—	3,200	120 changes per master key	349
	900	Million Lock	1 million	2,520 changes per master key	350
	DCY-34	—	2,000	866 changes per master key	350
	3800S	—	300	300 changes (1 master only)	351
	910MS	—	47,000	1,000 changes per master key	351
	NAL	—	5,000	—	352
	NAL-S	—	1	—	352

OTHER LOCKS

Picture	Item Name	Series	Key Changes	Master Key Option	Page
	DIT-19	—	—	—	353
	PWL	—	110	—	354
	BL-70Y	—	5	—	354
	WL-N1800	—	10,000	200 changes per master key	355
	WL-S1800	—	250	250 changes per master key	356
	WL-S2200-B	—	—	250 changes per master key	356
	WL-P1800-B	—	250	—	357

CABINET LOCK

5830


5830-30MK

■Features

- Interchangeable cylinder lock with Master Key system.
- Easy to replace cylinder by using Change Key 5830-K1 (below).
- Reversible key can be removed when locked and unlocked (180˚ rotation).
- Max. 3,120 key changes available. (Max. 780 key changes/Master Key)

■Remarks

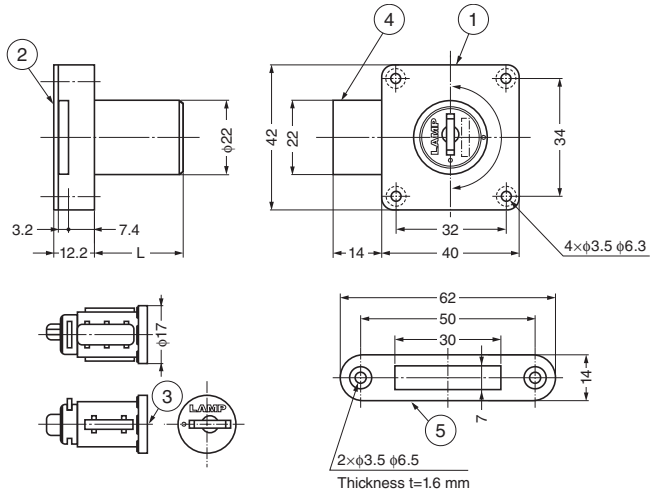
Replaceable cylinder (5830-N1) is made to order.

■Parts Included

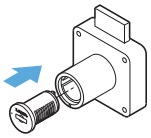
Countersunk head wood screw 3.1 × 13, 3.1× 22 (SUS)

■Optional Parts

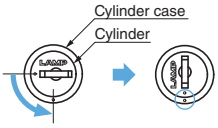
- Master Key 5830-MK1
- Change Key 5830-K1
- Spacer 5830-SP



■Installation



■How to Remove



Insert the Change Key and turn the cylinder 90˚ counter clockwise.

Place two dots in the same position and remove the cylinder.

■Body

Item Code	Item Name	Key Type	Cylinder Diameter	Door Thickness L	Weight	Box	Carton
150-001-006	5830-24MK-B	Key Different	φ22	24	155 g	12 pcs	60 pcs
150-060-060	5830-24MK-D	Key Alike	φ22	24	155 g	12 pcs	60 pcs
150-001-007	5830-30MK-B	Key Different	φ22	30	202 g	12 pcs	60 pcs
150-060-025	5830-30MK-D	Key Alike	φ22	30	202 g	12 pcs	60 pcs

■Master Key (Optional Parts)

Item Code	Item Name
150-001-009	5830-MK1

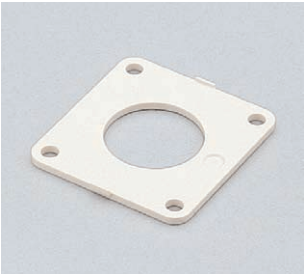
■Change Key (Optional Parts)

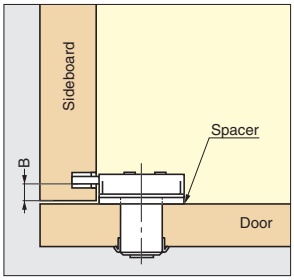
Item Code	Item Name
150-001-008	5830-K1

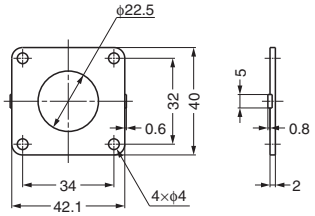
No.	Part Name	Material	Finish
①	Body	Zinc Alloy (ZDC)	Satin Nickel
②	Case Cover	Steel	Nickel
③	Cylinder (Inner)	Zinc Alloy (ZDC)	Satin Nickel
④	Dead Bolt	Steel	Nickel
⑤	Strike	Steel	Nickel
⑥	Ring	Brass	Satin Nickel
⑦	Key	Brass	Nickel

SPACER

5830-SP







■Remarks

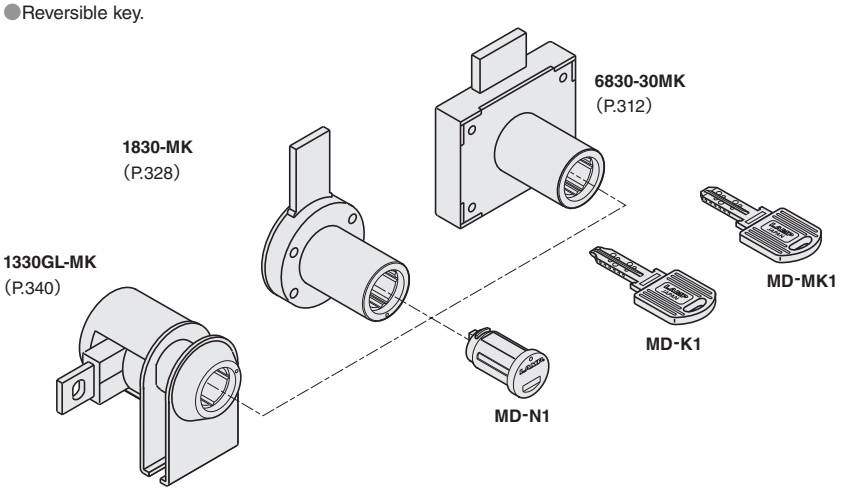
Distance spacer for 5830 cabinet lock.

Item Code	Item Name	Material	Colour	Thickness	Weight	Box	Carton
150-060-569	5830-SP	ABS	White	2	2.7 g	200 pcs	2,000 pcs

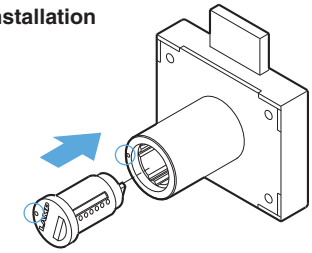
INTERCHANGEABLE LOCK SERIES

■Features

- Cylinder changeable type with Master Key system.
- Interchangeable system allows easy key management.
- 7,800 key changes available.
  - Master Key (sold separately) can manage different key numbers. (Max. 750 key changes/Master Key)
- Reversible key.

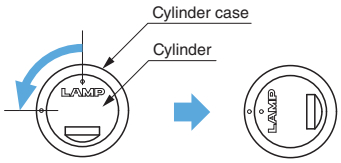


■Installation



Place two dots in the same position and insert the cylinder.

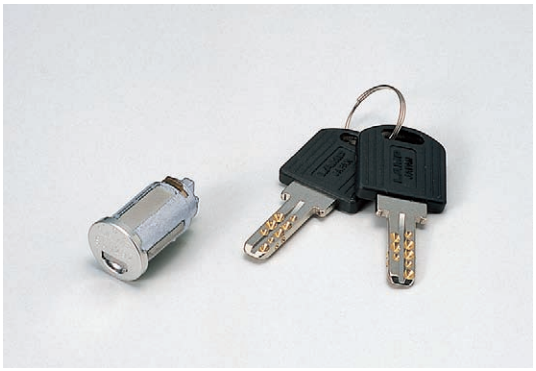
■How to Remove the Cylinder



Turn cylinder by using the Change Key (optional parts)

Place two dots in the same position

INTERCHANGEABLE CYLINDER — MD-N1



■Features

- For 6830-30MK, 1830-MK and 1330GL-MK.
- 7,800 key changes available. (Max. 750 key changes/Master Key)

Item Code	Item Name	Key Type	Material	Finish	Weight	Box	Carton
150-001-003	MD-N1-B	Key Different	Stainless Steel (SUS304)/Zinc Alloy (ZDC)	Polished/Yellow Zinc Chromate	50 g	12 pcs	60 pcs
150-001-126	MD-N1-D	Key Alike	Stainless Steel (SUS304)/Zinc Alloy (ZDC)	Polished/Yellow Zinc Chromate	50 g	12 pcs	60 pcs

MASTER KEY & CHANGE KEY — MD-MK1, MD-K1



■Features

- MD-MK1 - Master Key for easy key management.
- MD-K1 - Change Key to remove existing cylinder.

Item Code	Item Name	Type	Material	Finish/Colour	Weight	Box
150-001-002	MD-MK1	Master Key	Brass/ABS	Nickel/Black	13 g	1 pc
150-001-001	MD-K1	Change Key	Brass/ABS	Nickel/Black	13 g	1 pc

CABINET LOCK

STAINLESS

6830-30MK



6830-30MKGA　　6830-30MKDN

■Features

- Interchangeable cylinder lock series with Master Key system.
- Easy to replace the cylinder by using the Change Key MD-K1.
- Reversible key can be removed when locked and unlocked (180˚ rotation).
- 7,800 key changes available. (Max. 750 key changes/Master Key)
- Keys can be shared with 1330GL-MK (P.340) and 1830-MK (P.328).

■Remarks

Cylinder can be changed by using Change Key MD-K1.

■Sold Separately

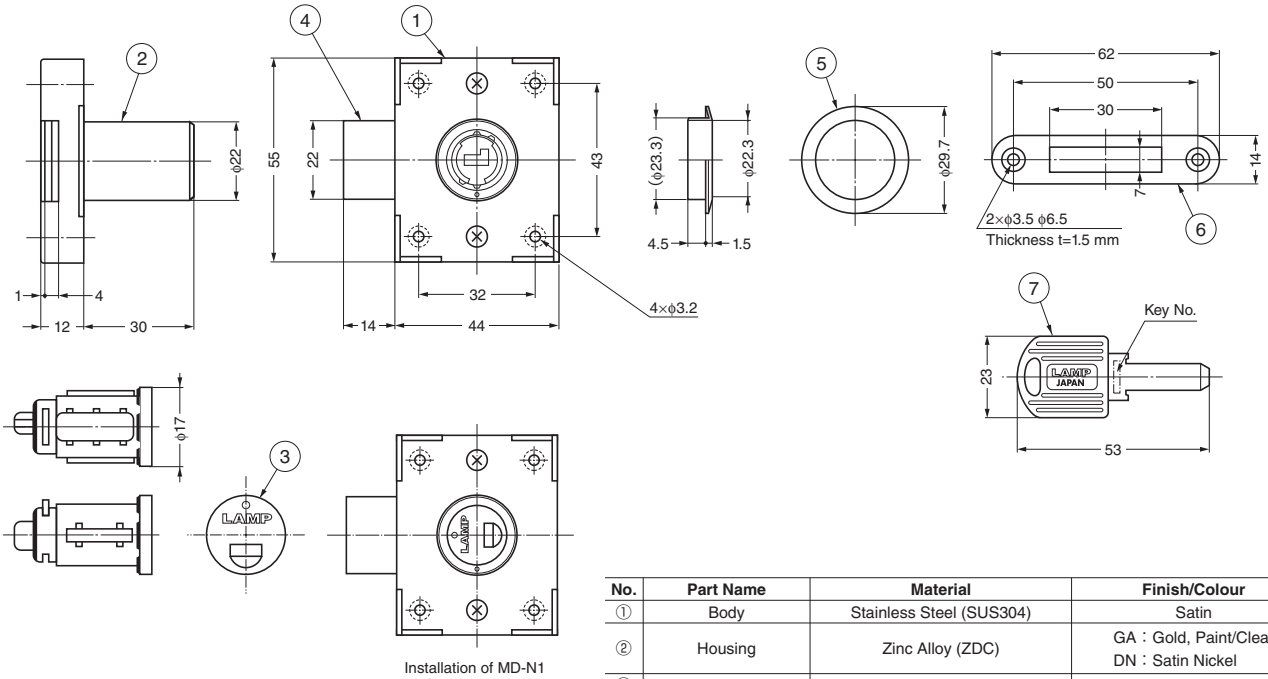
Cylinder MD-N1 (P.311)

■Parts Included

Countersunk head wood screw 2.7 × 13, 3.1 × 22 mm (SUS)

■Optional Parts

- Master Key MD-MK1 (P.311)
- Change Key MD-K1 (P.311)
- Spacer 6810-SP (below)



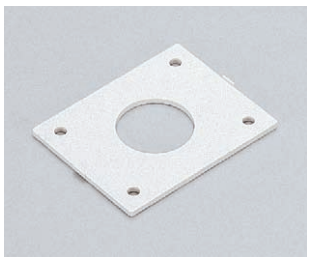
Installation of MD-N1
(Sold separately)

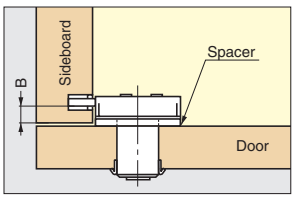
No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Satin
②	Housing	Zinc Alloy (ZDC)	GA：Gold, Paint/Clear DN：Satin Nickel
③	Cylinder (Sold Separately)	Stainless Steel (SUS304)/Zinc Alloy (ZDC)	Polished, Yellow Zinc Chromate
④	Dead Bolt	Stainless Steel (SUS304)	—
⑤	Ring	Brass	GA：Gold, Paint/Clear DN：Satin Nickel
⑥	Strike	Stainless Steel (SUS304)	Satin
⑦	Key (Sold Separately)	Brass/ABS	Nickel/Black

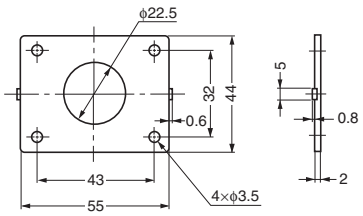
Item Code	Item Name	Finish	Cylinder Diameter	Door Thickness	Weight	Box	Carton
150-060-196	6830-30MKGA	Gold, Paint/Clear	ϕ22	30	180 g	12 pcs	60 pcs
150-060-193	6830-30MKDN	Satin Nickel	ϕ22	30	180 g	12 pcs	60 pcs

SPACER

6810-SP







Item Code	Item Name	Material	Colour	Thickness	Weight	Box	Carton
150-060-206	6810-SP	ABS	White	2	4.5 g	150 pcs	1,500 pcs

CABINET LOCK Million Lock Series

7810



7810-24NI　7810-24CR　7810-24BL

■Features

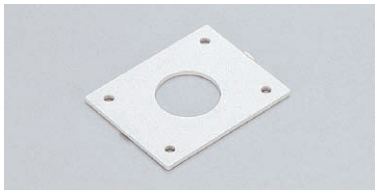
- For right-handed doors.
- High-security.
  Reversible key. Turn the key 360° to lock or unlock.
- Available in Satin Nickel (NI), Chrome (CR), Black Chrome (BL).
- Brass cylinder lock with stainless steel body.
- 1 million key changes available. Master Key system available at a surcharge.
  (Max. 2,520 key changes/Master Key.)
- Keys can be shared with other Million Lock Series.

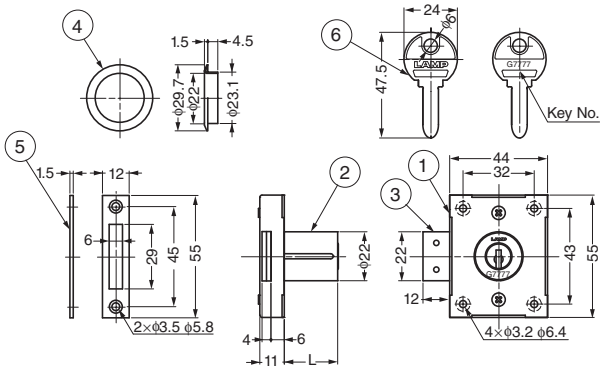
■Parts Included

Countersunk head wood screw 2.7 × 1.3, 3.1 × 22 (SUS)

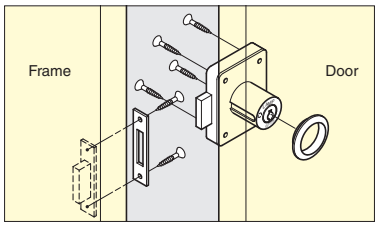
■Optional Parts

Spacer 6810-SP (P.312)





■Installation



No.	Part Name	Material	Finish		
			NI	CR	BL
①	Body	Stainless Steel (SUS304)	Satin	Satin	Satin
②	Cylinder	Brass	Satin Nickel	Chrome	Black Chrome
③	Dead Bolt	Stainless Steel (SUS304)	Plain	Plain	Plain
④	Ring	Brass	Satin Nickel	Chrome	Black Chrome
⑤	Strike	Stainless Steel (SUS304)	Satin	Satin	Black Chrome
⑥	Key	Brass	Nickel	Nickel	Nickel

■Removable Key when Unlocked (Without Master Key System)

Item Code	Item Name	Key Type	Cylinder Diameter	Door Thickness	Finish	L	Weight	Box	Carton
150-017-504	7810-24NI-B	Key Different	φ22	22～24	Satin Nickel	24	190 g	12 pcs	60 pcs
150-001-207	7810-24NI-D	Key Alike	φ22	22～24	Satin Nickel	24	190 g	12 pcs	60 pcs
150-017-667	7810-24CR-B	Key Different	φ22	22～24	Chrome	24	190 g	12 pcs	60 pcs
150-001-210	7810-24CR-D	Key Alike	φ22	22～24	Chrome	24	190 g	12 pcs	60 pcs
150-028-531	7810-24BL-B	Key Different	φ22	22～24	Black Chrome	24	190 g	12 pcs	60 pcs
150-001-246	7810-24BL-D	Key Alike	φ22	22～24	Black Chrome	24	190 g	12 pcs	60 pcs
150-017-513	7810-30NI-B	Key Different	φ22	28～30	Satin Nickel	30	210 g	12 pcs	60 pcs
150-001-208	7810-30NI-D	Key Alike	φ22	28～30	Satin Nickel	30	210 g	12 pcs	60 pcs
150-017-673	7810-30CR-B	Key Different	φ22	28～30	Chrome	30	210 g	12 pcs	60 pcs
150-001-213	7810-30CR-D	Key Alike	φ22	28～30	Chrome	30	210 g	12 pcs	60 pcs
150-028-533	7810-30BL-B	Key Different	φ22	28～30	Black Chrome	30	210 g	12 pcs	60 pcs
150-001-247	7810-30BL-D	Key Alike	φ22	28～30	Black Chrome	30	210 g	12 pcs	60 pcs
150-017-520	7810-36NI-B	Key Different	φ22	34～36	Satin Nickel	36	225 g	12 pcs	60 pcs
150-001-209	7810-36NI-D	Key Alike	φ22	34～36	Satin Nickel	36	225 g	12 pcs	60 pcs
150-017-678	7810-36CR-B	Key Different	φ22	34～36	Chrome	36	225 g	12 pcs	60 pcs
150-001-212	7810-36CR-D	Key Alike	φ22	34～36	Chrome	36	225 g	12 pcs	60 pcs

Please contact us for the removable key when unlocked with Master Key system.

■Non-removable Key when Unlocked (With Master Key System)

Item Code	Item Name	Key Type	Cylinder Diameter	Door Thickness	Finish	L	Weight	Box	Carton
150-024-595	7810-24NI-MK-R-B	Key Different	φ22	22～24	Satin Nickel	24	190 g	12 pcs	60 pcs

CABINET LOCK Million Lock Series

STAINLESS **7810K**


7810K-24-SNI-L

■Features

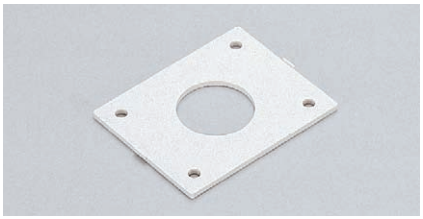
- Can be used in single sliding door and single swing door.
- Reversible key.
- Turn the key 360° to lock or unlock.
- Special dead bolt for high security.
- 1 million key changes available.
- Master Key system available at surcharge.
  (Max. 2,520 key changes/Master Key.)
- Keys can be shared with other Million Lock Series.

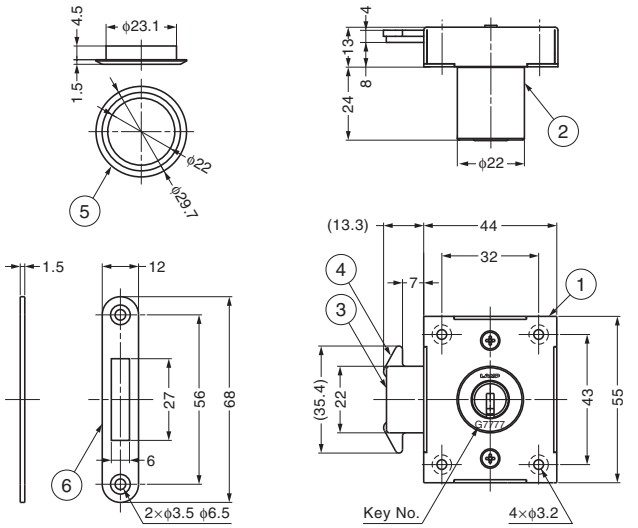
■Parts Included

Countersunk head wood screw3.1×22, 2.7×13 (SUS)

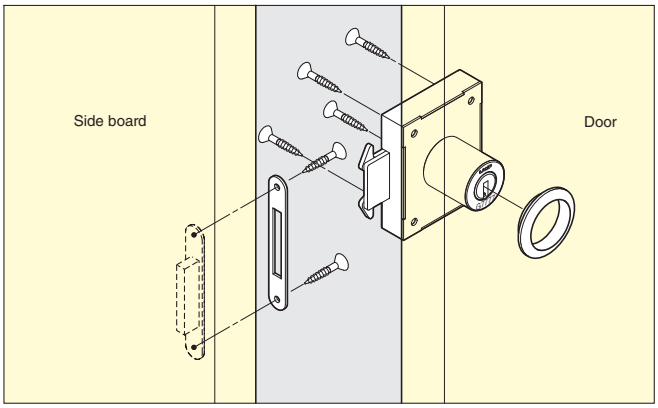
■Optional Parts

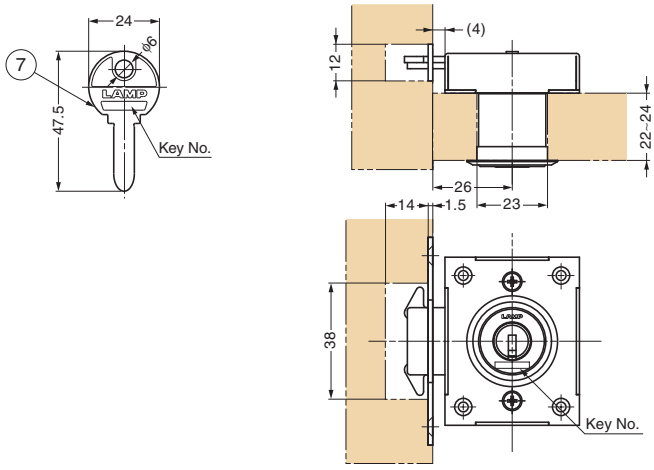
Spacer 6810-SP (P.312)





■Installation





No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Cylinder	Brass	Satin Nickel, Chrome
③	Dead Bolt	Stainless Steel (SUS304)	Plain
④	Latch	Stainless Steel (SUS304)	Polished
⑤	Ring	Brass	Satin Nickel, Chrome
⑥	Strike	Stainless Steel (SUS304)	Satin
⑦	Key	Brass	Nickel

Item Code	Item Name	Style	Cylinder Finish	Key Type	Cylinder Diameter	Door Thickness	Weight	Box	Carton
150-028-732	7810K-24-SNI-L-B	For right-handed door	Satin Nickel	Key Different	φ22	22～24	160 g	12 pcs	60 pcs
150-001-242	7810K-24-SNI-L-D	For right-handed door	Satin Nickel	Key Alike	φ22	22～24	160 g	12 pcs	60 pcs
150-028-734	7810K-24-CR-L-B	For right-handed door	Chrome	Key Different	φ22	22～24	160 g	12 pcs	60 pcs
150-001-243	7810K-24-CR-L-D	For right-handed door	Chrome	Key Alike	φ22	22～24	160 g	12 pcs	60 pcs
150-028-936	7810K-24-SNI-R-B	For left-handed door	Satin Nickel	Key Different	φ22	22～24	160 g	12 pcs	60 pcs
150-001-244	7810K-24-SNI-R-D	For left-handed door	Satin Nickel	Key Alike	φ22	22～24	160 g	12 pcs	60 pcs
150-028-938	7810K-24-CR-R-B	For left-handed door	Chrome	Key Different	φ22	22～24	160 g	12 pcs	60 pcs
150-001-245	7810K-24-CR-R-D	For left-handed door	Chrome	Key Alike	φ22	22～24	160 g	12 pcs	60 pcs

Please contact us for this item with Master Key system.

CABINET LOCK

STEEL **8810**



8810-24

■Features

- Brass cylinder lock with stainless steel body.
- Construction Key System - Key number is changeable without replacing cylinder. (Key number can be changed twice.)
- Reversible key can be removed when locked and unlocked. (360˚ rotation)
- 3 million key changes available (Max. 300 key changes/Master Key).

■Remarks

Previous key and key number cannot be used again after changing key number.

■Parts Included

- Countersunk head wood screw 3.1 × 25 (for body)
- Countersunk head wood screw 3.1 × 13 (for strike)

■Optional Parts

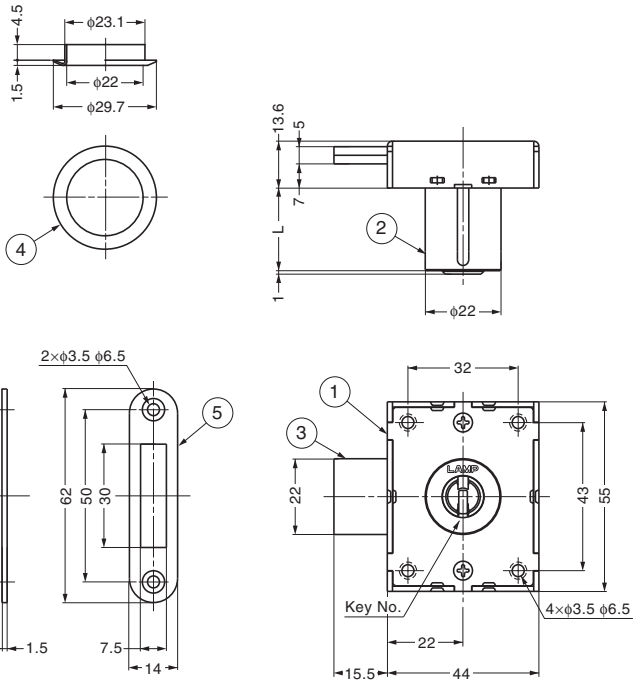
- Master Key (made to order)
- Spacer 6810-SP (P. 312)

■How to Change Key

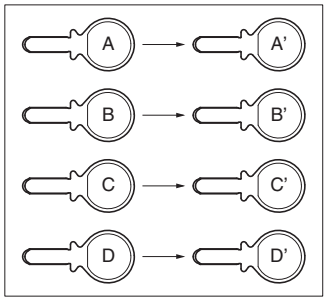
- Each lock includes keys for the original key number only.
- To change the lock's key number insert the new key and rotate 360˚.
- After changing the lock's key number, the previous used key cannot open the lock.
- 1st and 2nd change keys are sold separately.

■Combined Usage with Key and Master Key

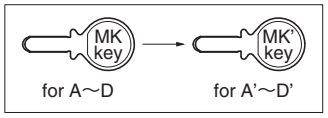
- Changing the master keys for each key number is possible.
- Master keys must be also changed after the lock's key number is changed.
- In case only some of the locks' key numbers in Master Key system are changed, master keys for that portion should still be kept.



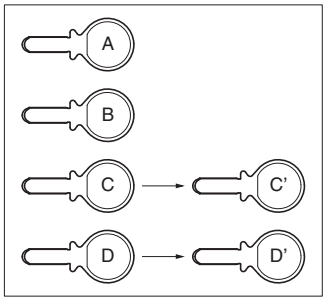
When all keys are changed...



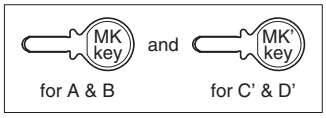
Master Key also needs to be changed.



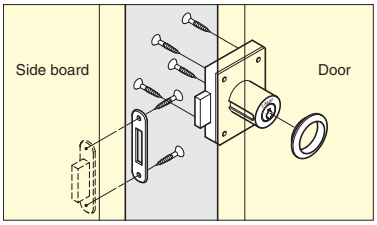
When some keys are changed...



Both the current Master Key and the new Master Key should be kept.



■Installation



No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Satin
②	Cylinder	Brass	Nickel
③	Dead Bolt	Stainless Steel (SUS304)	—
④	Ring	Brass	Satin Nickel
⑤	Strike	Stainless Steel (SUS304)	Satin
⑥	Key	Nickel Silver	Polished

Item Code	Item Name	Key Type	Master Key System	Cylinder Diameter	Door Thickness	L	Weight	Box	Carton
150-022-338	8810-24MK-B	Key Different	With	ϕ 22	22 ～ 24	24	190 g	12 pcs	60 pcs
150-022-337	8810-24-B	Key Different	Without	ϕ 22	22 ～ 24	24	190 g	12 pcs	60 pcs
150-001-221	8810-24-D	Key Alike	Without	ϕ 22	22 ～ 24	24	190 g	12 pcs	60 pcs
150-029-317	8810-36MK-B	Key Different	With	ϕ 22	34 ～ 36	36	220 g	12 pcs	60 pcs
150-029-316	8810-36-B	Key Different	Without	ϕ 22	34 ～ 36	36	220 g	12 pcs	60 pcs
150-001-241	8810-36-D	Key Alike	Without	ϕ 22	34 ～ 36	36	220 g	12 pcs	60 pcs

CABINET LOCK WITH INDICATOR 2200 Lock Series 2200QL



■Features

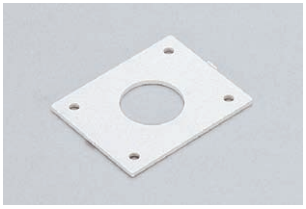
- For drawer and cabinet door application.
- Only 45˚ rotation is needed to unlock/lock the door.
- Key automatically returns to original position.
- With indicator: Unlocked - Blue, Locked - Red.
- 300 key changes available.
- Master Key system available at surcharge.
  (Max. 170 key changes/Master Key.)
- Keys can be shared with other 2200 Lock Series.

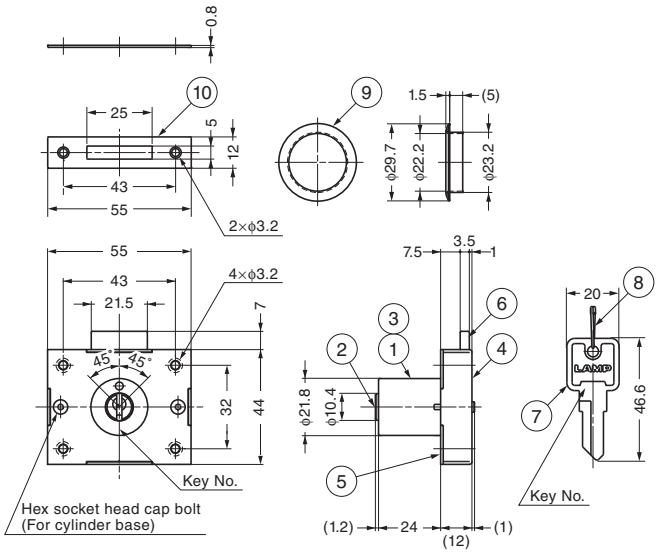
■Parts Included

Countersunk head wood screw 3.1 × 20, 2.1 × 10 (SUS)

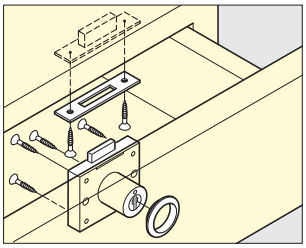
■Optional Parts

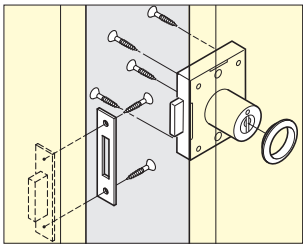
Spacer 6810-SP (P.312)





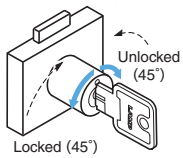
■Installation





(This application is available at surcharge.)

■Lock/Unlock



Key automatically returns to original position.

No.	Part Name	Material	Finish
①	Cylinder (Outer)	Zinc Alloy (ZDC)	Yellow Zinc Chromate
②	Cylinder (Inner)	Zinc Alloy (ZDC)	Satin Nickel
③	Body Pipe	Brass	Satin Nickel
④	Body	Stainless Steel (SUS304)	Plain
⑤	Cylinder Base	Stainless Steel (SUS304)	Plain
⑥	Dead Bolt	Zinc Alloy (ZDC)	Nickel
⑦	Key	Brass	Nickel
⑧	Key Ring	Stainless Steel (SUS304)	Plain
⑨	Surface Ring	Brass	Satin Nickel
⑩	Strike	Stainless Steel (SUS304)	Plain

Item Code	Item Name	Key Type	Cylinder Diameter	Door Thickness	Weight	Box	Carton
150-012-927	2200QL-24-B	Key Different	φ21.8	24	200 g	12 pcs	60 pcs
150-012-926	2200QL-24-D	Key Alike	φ21.8	24	200 g	12 pcs	60 pcs

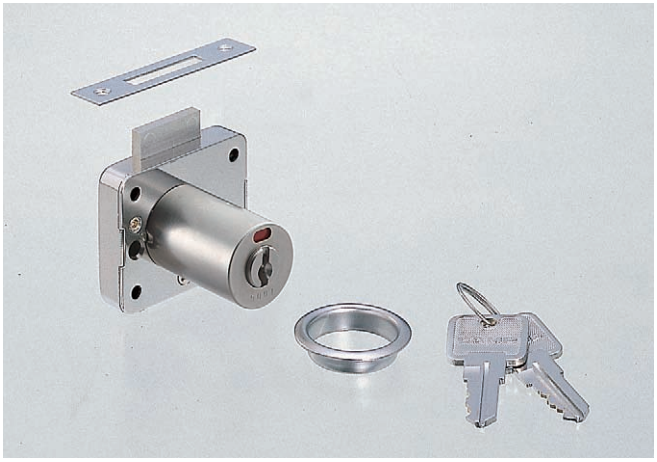
Please contact us for this item with Master Key system.

CABINET LOCK WITH INDICATOR

2200 Lock Series

STAINLESS

2200



■Features

- For drawer and cabinet door application.
- With indicator: Unlocked - Blue, Locked - Red.
- 12 key changes available. (Max. 300 key changes as special order)
- Master Key system (170 key changes) available at surcharge. (1 Master Key only.)
- Keys can be shared with other 2200 Lock Series.

■Parts Included

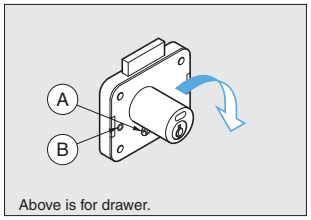
Countersunk head wood screw 3.1 × 20, 2.1 × 10 (SUS)

■Optional Parts

Spacer TSSP (P.324)

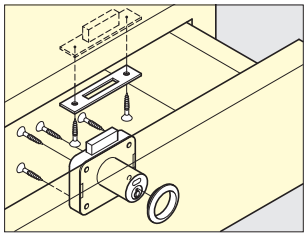


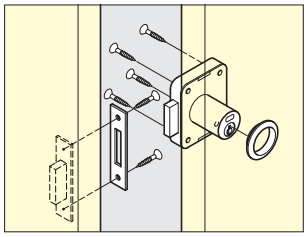
■How to Switch: for Drawer/Right-handed Door Application

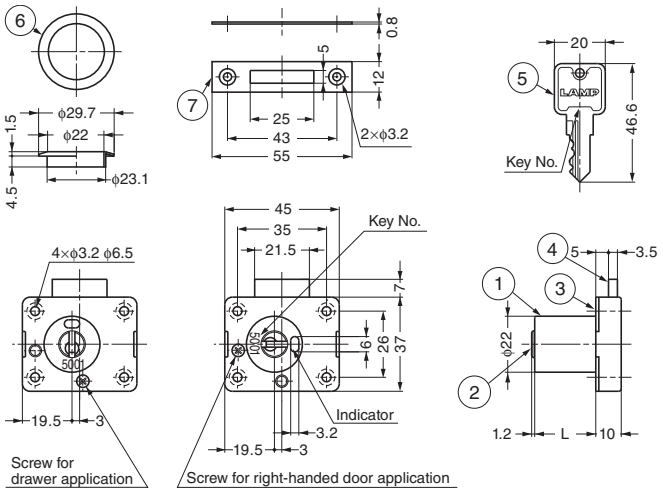


① Remove screw Ⓐ.
② Turn the lock cylinder 90˚ (clockwise for door application).
③ Fix the screw in Ⓑ.
④ Indicator is to be forwarded upside.

■Installation







No.	Part Name	Material	Finish
①	Cylinder (Outer)	Zinc Alloy (ZDC)	Satin Nickel
②	Cylinder (Inner)	Zinc Alloy (ZDC)	Satin Nickel
③	Body	Brass	Nickel
④	Dead Bolt	Brass	Nickel
⑤	Key	Brass	Nickel
⑥	Ring	Brass	Satin Nickel
⑦	Strike	Stainless Steel (SUS304)	Plain

Item Code	Item Name	Key Type	Cylinder Diameter	Door Thickness	L	Weight	Box	Carton
150-060-413	2200-24-B	Key Different	φ22	24	24	115 g	12 pcs	120 pcs
150-060-412	2200-24-D	Key Alike	φ22	24	24	115 g	12 pcs	120 pcs
150-060-415	2200-30-B	Key Different	φ22	30	30	141 g	12 pcs	120 pcs
150-060-414	2200-30-D	Key Alike	φ22	30	30	141 g	12 pcs	120 pcs

Please contact us for this item with Master Key system.

CABINET LOCK 2100 Lock Series

2100



■Features

- For drawer and cabinet door application.
- 12 key changes available.
- Keys can be shared with other 2100 Lock Series.
- Cylinder and Ring can be made with polished finish at surcharge.

■Parts Included

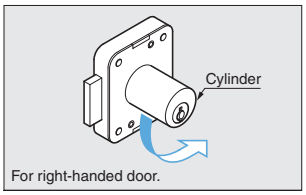
Countersunk head wood screw 3.1 × 20, 2.1 × 10 (SUS)

■Optional Parts

Spacer TSSP (P.324)

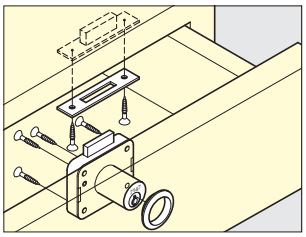


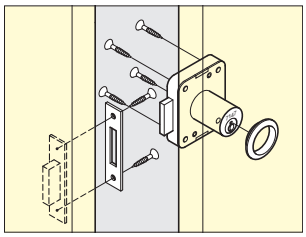
■How to Switch: for Drawer/Right-handed Door Application

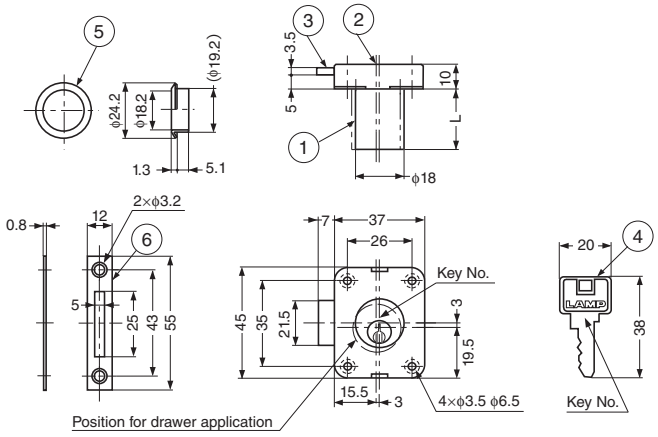


- Turn lock cylinder 90˚ (counter clockwise for drawer).
- Key No. is to be forwarded upside.

■Installation







No.	Part Name	Material	Finish
①	Cylinder	Brass	Satin Nickel
②	Body	Brass	Nickel
③	Dead Bolt	Brass	Nickel
④	Key	Brass	Nickel
⑤	Ring	Brass	Satin Nickel
⑥	Strike	Stainless Steel (SUS304)	Plain

Item Code	Item Name	Key Type	Cylinder Diameter	Door Thickness	L	Weight	Box	Carton
150-001-013	2100-24-B	Key Different	φ18	24	24	116 g	12 pcs	120 pcs
150-001-014	2100-24-D	Key Alike	φ18	24	24	116 g	12 pcs	120 pcs
150-001-015	2100-30-B	Key Different	φ18	30	30	125 g	12 pcs	120 pcs
150-001-016	2100-30-D	Key Alike	φ18	30	30	125 g	12 pcs	120 pcs

STAINLESS STEEL CABINET LOCK

3810S



■Features

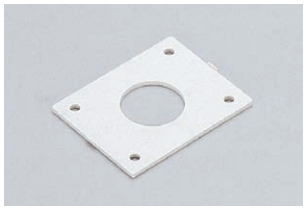
- For drawer and cabinet door application.
- Keys can be shared with 3800S (P.351).
- Reversible key can be removed when locked and unlocked (360˚ rotation).
- 12 key changes available. (Max. 300 key changes as special order)
- Master Key system (300 key changes) available at a surcharge. (1 Master Key only.)

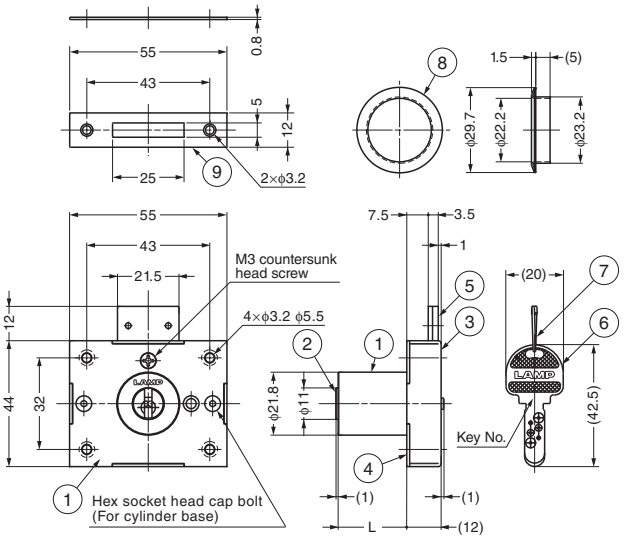
■Parts Included

Countersunk head wood screw 3.1 × 20, 2.1 × 10 (SUS)

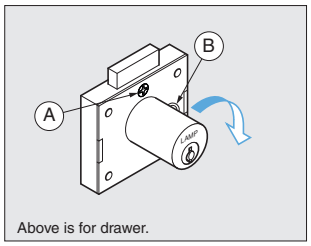
■Optional Parts

Spacer 6810-SP (P.312)



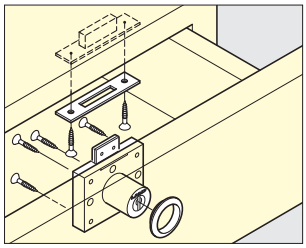


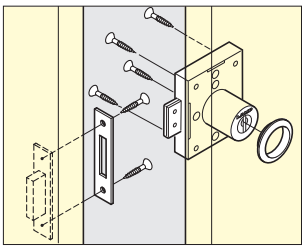
■How to Switch: for Drawer/Right-handed Door Application



① Remove screw Ⓐ.
② Turn lock cylinder 90˚ (clockwise for door application).
③ Fix screw in Ⓑ.
④ The logo "LAMP" is to be forwarded upside.

■Installation





No.	Part Name	Material	Finish
①	Cylinder (Outer)	Stainless Steel (SUS303)	Satin
②	Cylinder (Inner)	Stainless Steel (SUS303)	Plain
③	Body	Stainless Steel (SUS304)	Plain
④	Cylinder Base	Stainless Steel (SUS304)	Plain
⑤	Dead Bolt	Stainless Steel (SUS304)	Plain
⑥	Key	Nickel Silver	Plain
⑦	Key Ring	Stainless Steel (SUS304)	Plain
⑧	Surface Ring	Stainless Steel (SUS304)	Plain
⑨	Strike	Stainless Steel (SUS304)	Plain

*Cylinder pin is made of brass.

Item Code	Item Name	Key Type	Cylinder Diameter	L	Door Thickness	Weight	Box	Carton
150-012-923	3810S-24-B	Key Different	ϕ21.8	24	24	180 g	12 pcs	60 pcs
150-012-922	3810S-24-D	Key Alike	ϕ21.8	24	24	180 g	12 pcs	60 pcs
150-012-925	3810S-30-B	Key Different	ϕ21.8	30	30	195 g	12 pcs	60 pcs
150-012-924	3810S-30-D	Key Alike	ϕ21.8	30	30	195 g	12 pcs	60 pcs

CABINET LOCK 3310 Lock Series

3310



■Features

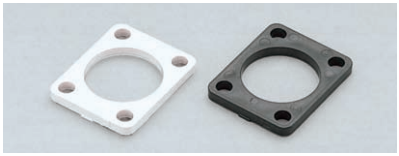
- For drawer and cabinet door application.
- 156 key changes available.
- Keys can be shared with other 3310 Lock Series.
- Can be made with polished finish at surcharge.

■Parts Included

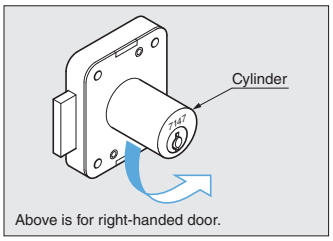
Countersunk head wood screw 3.1 × 20, 2.1 × 10 (SUS)

■Optional Parts

Spacer TSSP (P.324)

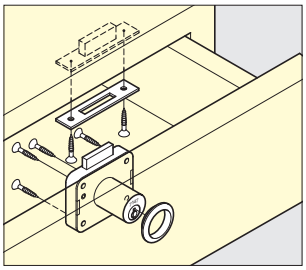


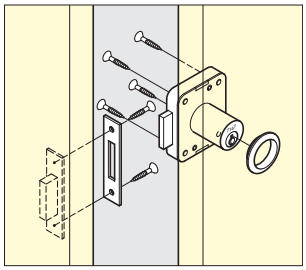
■How to Switch: for Drawer/Right-handed Door Application

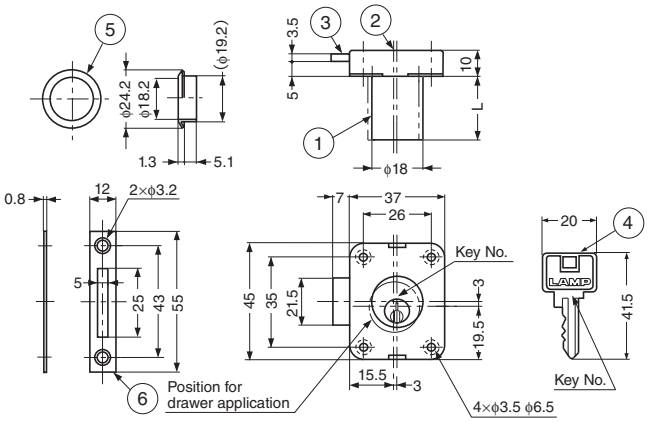


- Turn the lock cylinder 90° (counter clockwise for drawer).
- Key No. is to be forwarded upside.

■Installation







No.	Part Name	Material	Finish
①	Cylinder	Brass	Satin Nickel
②	Body	Brass	Nickel
③	Dead Bolt	Brass	Nickel
④	Key	Brass	Nickel
⑤	Ring	Brass	Satin Nickel
⑥	Strike	Stainless Steel (SUS304)	Plain

Item Code	Item Name	Key Type	Cylinder Diameter	Door Thickness	L	Weight	Box	Carton
150-063-600	3310-24-B	Key Different	φ18	24	24	116 g	12 pcs	120 pcs
150-001-017	3310-24-D	Key Alike	φ18	24	24	116 g	12 pcs	120 pcs
150-063-610	3310-30-B	Key Different	φ18	30	30	125 g	12 pcs	120 pcs
150-001-018	3310-30-D	Key Alike	φ18	30	30	125 g	12 pcs	120 pcs

CABINET LOCK 3310 Lock Series

3320



■Features

- For drawer and cabinet door application.
- Key is not removable in unlocked position.
- 156 key changes available.
- Keys can be shared with other 3310 Lock Series.

■Parts Included

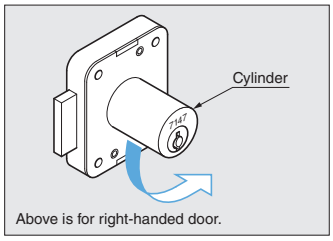
Countersunk head wood screw 3.1 × 20, 2.1 × 10 (SUS)

■Optional Parts

Spacer TSSP (P.324)

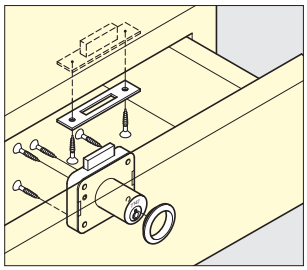


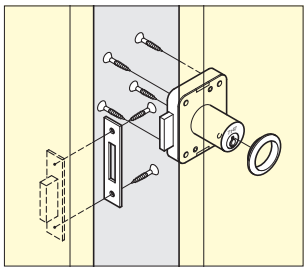
■How to Switch: for Drawer/Right-handed Door Application

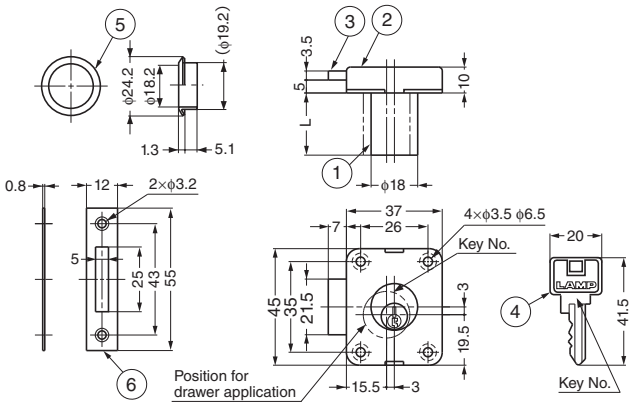


- Turn the lock cylinder 90˚ (counter clockwise for drawer).
- Key No. is to be forwarded upside.

■Installation







No.	Part Name	Material	Finish
①	Cylinder	Brass	Satin Nickel
②	Body	Brass	Nickel
③	Dead Bolt	Brass	Nickel
④	Key	Brass	Nickel
⑤	Ring	Brass	Satin Nickel
⑥	Strike	Stainless Steel (SUS304)	–

Item Code	Item Name	Key Type	Cylinder Diameter	Door Thickness	L	Weight	Box	Carton
150-065-956	3320-24-B	Key Different	ϕ18	24	24	123 g	12 pcs	120 pcs
150-001-019	3320-24-D	Key Alike	ϕ18	24	24	123 g	12 pcs	120 pcs
150-065-974	3320-30-B	Key Different	ϕ18	30	30	135 g	12 pcs	120 pcs
150-001-020	3320-30-D	Key Alike	ϕ18	30	30	135 g	12 pcs	120 pcs

CABINET LOCK

STEEL **2550**



■Features

- For drawers and cabinet door application.
- 300 key changes available. (Max. 80 key changes/Master Key)
- Keys can be shared with the previous 2520 model.
- Gold finish is available at surcharge.

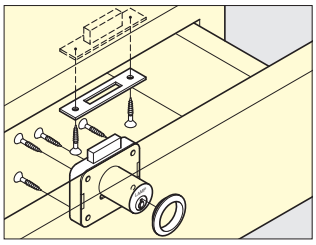
■Parts Included

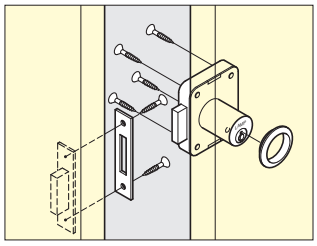
Countersunk head wood screw 3.1 × 20, 2.1 × 10

■Optional Parts

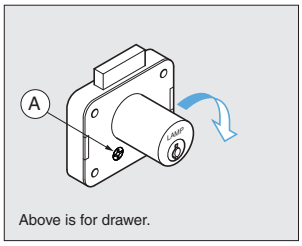
- Master Key 2550MK
- Spacer 2550-SP (below)

■Installation

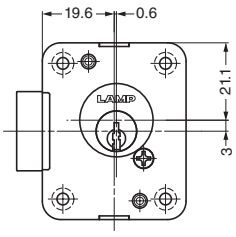




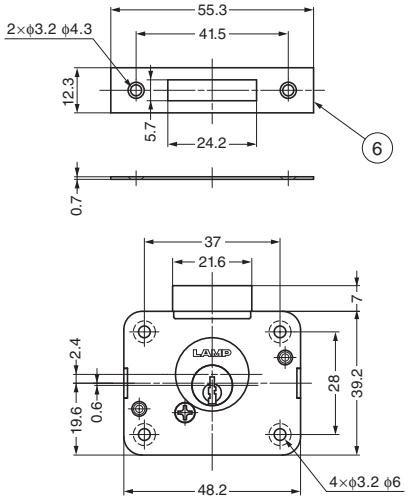
■How to Switch: for Drawer/Right-handed Door Application



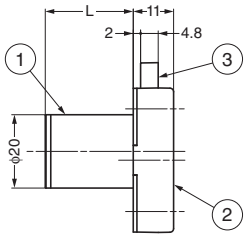
① Remove the screw Ⓐ.
② Turn the lock cylinder 90˚(clockwise for door application).
③ Fix the screw in Ⓑ.
④ The logo "LAMP" is to be forwarded upside.

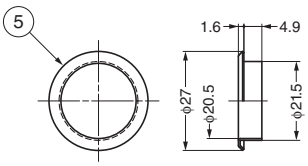


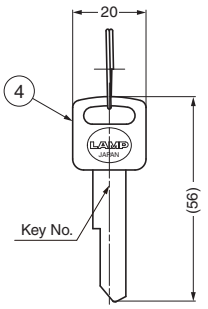
Right-handed door



Drawer







■Body

Item Code	Item Name	Key Type	Master Key System	Cylinder Diameter	Door Thickness	L	Weight	Box	Carton
150-001-216	2550-24-DN-MK-B	Key Different	With	ϕ20	24	24	140 g	12 pcs	120 pcs
150-022-051	2550-24-DN-B	Key Different	Without	ϕ20	24	24	140 g	12 pcs	120 pcs
150-001-214	2550-24-DN-D	Key Alike	Without	ϕ20	24	24	140 g	12 pcs	120 pcs
150-001-217	2550-36-DN-MK-B	Key Different	With	ϕ20	36	36	170 g	12 pcs	120 pcs
150-022-054	2550-36-DN-B	Key Different	Without	ϕ20	36	36	170 g	12 pcs	120 pcs
150-001-215	2550-36-DN-D	Key Alike	Without	ϕ20	36	36	170 g	12 pcs	120 pcs

■Master Key (Sold Separately)

Item Code	Item Name
150-022-387	2550MK

■Spacer (Sold Separately)

Item Code	Item Name	Material	Colour	Thickness
150-029-319	2550-SP	Polyamide (PA)	White	2

No.	Part Name	Material	Finish
①	Cylinder	Brass	Nickel
②	Body	Zinc Alloy (ZDC)	Nickel
③	Dead Bolt	Zinc Alloy (ZDC)	Nickel
④	Key	Brass/Resin	Nickel/Black
⑤	Ring	Brass	Nickel
⑥	Strike	Brass	Nickel

CABINET LOCK

STEEL **2650**



■Features

- For drawers and cabinet door application.
- 2650-16 : 48 key changes / 2650-22, 2650-30 : 120 key changes.
- 48 key numbers can be shared with the whole 2650 Lock Series.
- Gold finish is available at surcharge.

■Parts Included

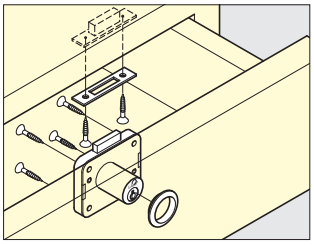
Countersunk head wood screw 3.1 × 20, 2.1 × 10

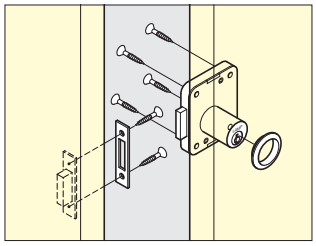
■Optional Parts

Spacer TSSP (P.324)

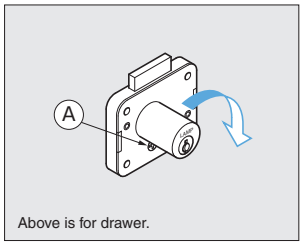


■Installation

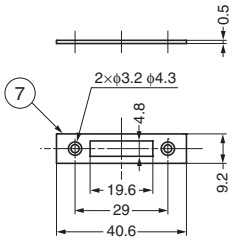


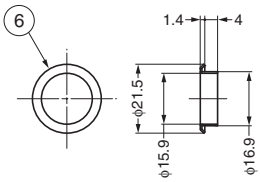


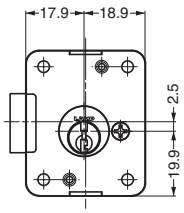
■How to Switch: for Drawer/Right-handed Door Application



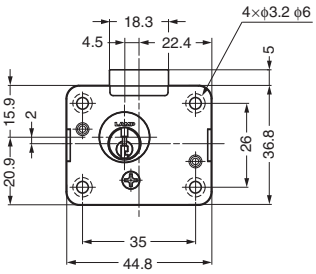
① Remove the screw Ⓐ.
② Turn the lock cylinder 90° (clockwise for door application).
③ Fix the screw in Ⓑ.
④ The logo "LAMP" is to be forwarded upside.



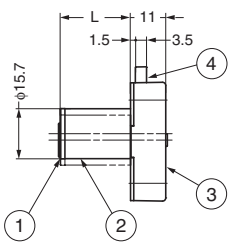


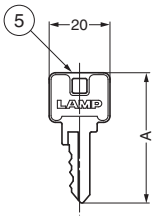


Right-handed door



Drawer





No.	Part Name	Material	Finish
①	Cylinder (Inner)	Zinc Alloy (ZDC)	Nickel
②	Cylinder (Outer)	Brass	Nickel
③	Body	Zinc Alloy (ZDC)	Nickel
④	Dead Bolt	Zinc Alloy (ZDC)	Nickel
⑤	Key	Brass	Nickel
⑥	Ring	Brass	Nickel
⑦	Strike	Brass	Plain

Item Code	Item Name	Key Type	Cylinder Diameter	Sheet Metal Thickness	L	A	Weight	Box	Carton
150-022-061	2650-16-DN-B	Key Different	ϕ15.7	16	16	38	81.5 g	12 pcs	120 pcs
150-001-218	2650-16-DN-D	Key Alike	ϕ15.7	16	16	38	81.5 g	12 pcs	120 pcs
150-022-064	2650-22-DN-B	Key Different	ϕ15.7	22	22	42	89.5 g	12 pcs	120 pcs
150-001-219	2650-22-DN-D	Key Alike	ϕ15.7	22	22	42	89.5 g	12 pcs	120 pcs
150-022-067	2650-30-DN-B	Key Different	ϕ15.7	30	30	42	98 g	12 pcs	120 pcs
150-001-220	2650-30-DN-D	Key Alike	ϕ15.7	30	30	42	98 g	12 pcs	120 pcs

STRIKE

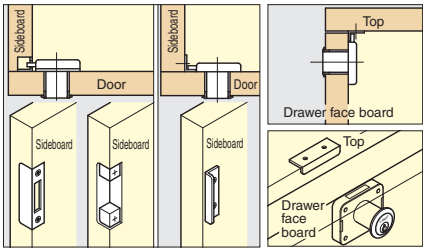
LA

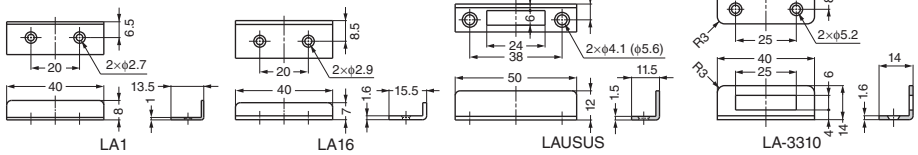


■Features

- Optional strike plates (for the place, dead bolt is close to the cabinet edge, or for inset door).
- LA-3310 is for double door application of 3310 series and 3320 series.

■Installation

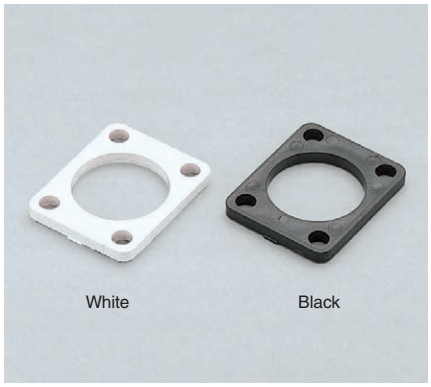




Item Code	Item Name	Material	Finish	Weight	Box
150-060-204	LA1	Steel	Nickel	6 g	400 pcs
150-069-115	LA16	Steel	Nickel	9 g	400 pcs
150-069-023	LAUSUS	Stainless Steel (SUS304)	Satin	10 g	250 pcs
150-060-669	LA-3310	Steel	Nickel	11 g	100 pcs

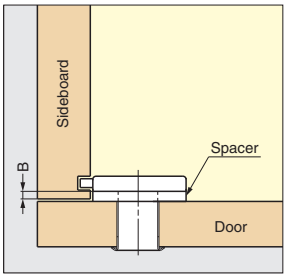
SPACER

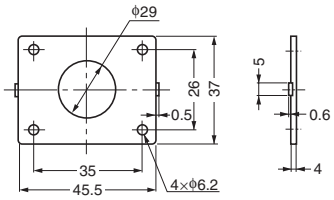
TSSP



■Features

Use when the additional distance on dimension B is required. (Multiple spacers can be used if needed)





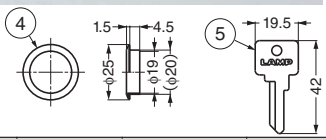
Item Code	Item Name	Material	Colour	Thickness	Weight	Box	Carton
150-060-148	TSSP-W	ABS	White	4	14 g	150 pcs	1,500 pcs
150-060-149	TSSP-B	ABS	Black	4	14 g	150 pcs	1,500 pcs

PUSH LOCK

2150M, 2160M

STEEL





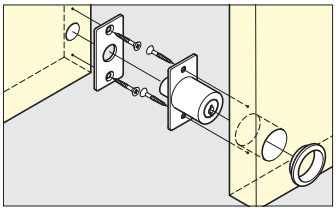
■Features

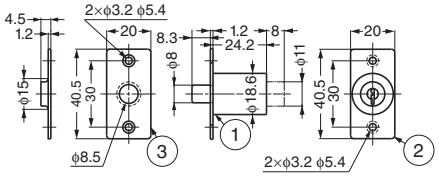
- For sliding doors.
- 2150M - Lock to push the cylinder.
  2160M - Lock to insert key and push the cylinder.
- 24 key changes available.
- For metal sheet: 2150B and 2160B (P.347).
- Keys can be shared with 2150M, 2160M, 2150B and 2160B Lock Series.

■Parts Included

Countersunk head wood screw 2.7 × 16

■Installation





Item Code	Item Name	Key Type	How to Lock	Cylinder Diameter	Door Thickness	Weight	Box	Carton
150-060-067	2150M-B	Key Different	Without Key	ϕ18.6	24	50 g	24 pcs	240 pcs
150-060-068	2150M-D	Key Alike	Without Key	ϕ18.6	24	50 g	24 pcs	240 pcs
150-060-071	2160M-B	Key Different	With Key	ϕ18.6	24	50 g	24 pcs	240 pcs
150-060-072	2160M-D	Key Alike	With Key	ϕ18.6	24	50 g	24 pcs	240 pcs

No.	Part Name	Material	Finish
①	Body	Zinc Alloy (ZDC)	Nickel
②	Mounting Plate	Brass	Nickel
③	Strike	Brass	Nickel
④	Ring	Brass	Nickel
⑤	Key	Brass	Nickel

PUSH LOCK Million Lock Series

2300M



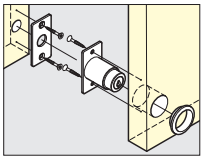
■Features

- For sliding doors.
- 1 million key changes available.
- Master Key system available at surcharge.
  (Max. 2,520 key changes/Master Key.)
- Keys can be shared with Million Lock Series.

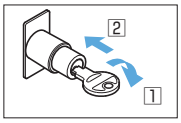
■Parts Included

Countersunk head wood screw 2.7 × 16 (SUS)

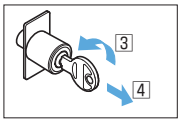
■Installation



■Lock

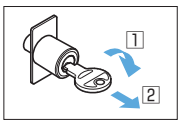


Turn key 90° to the right, push in.

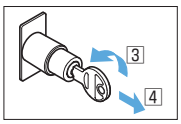


Turn key 90° to the left, and remove.

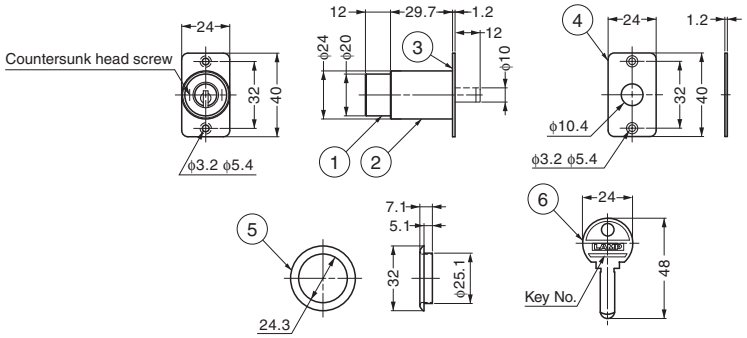
■Unlock



Turn key 90° to the right and lock will automatically disengage.



Turn the key 90° back and remove.



No.	Part Name	Material	Finish
①	Body	Brass	Chrome
②	Cylinder Case	Zinc Alloy (ZDC)	Chrome
③	Mounting Plate	Stainless Steel (SUS304)	Polished
④	Strike	Stainless Steel (SUS304)	Polished
⑤	Ring	Brass	Chrome
⑥	Key	Brass	Nickel

Item Code	Item Name	Key Type	Cylinder Diameter	Door Thickness	Weight	Box	Carton
150-022-924	2300M-B	Key Different	ϕ24	30	100 g	12 pcs	60 pcs
150-001-232	2300M-D	Key Alike	ϕ24	30	100 g	12 pcs	60 pcs

PUSH LOCK

2400M



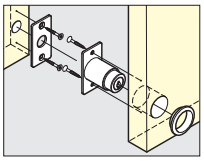
■Features

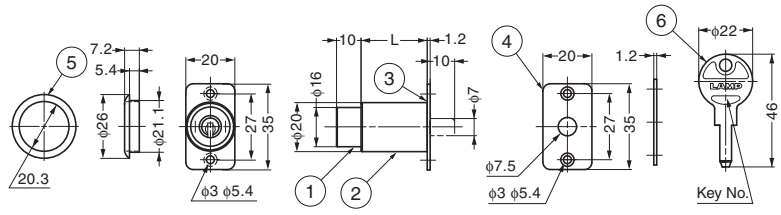
- For sliding doors.
- Push the cylinder to lock without the using key.
- Turn key 45° to the right to unlock. Turn key 45° to the left to lock and remove the key.
- 47,000 key changes available.
- Master Key system available at surcharge.
  (Max. 1,000 key changes/Master Key.)

■Parts Included

Countersunk head wood screw 2.7 × 16 (SUS)

■Installation



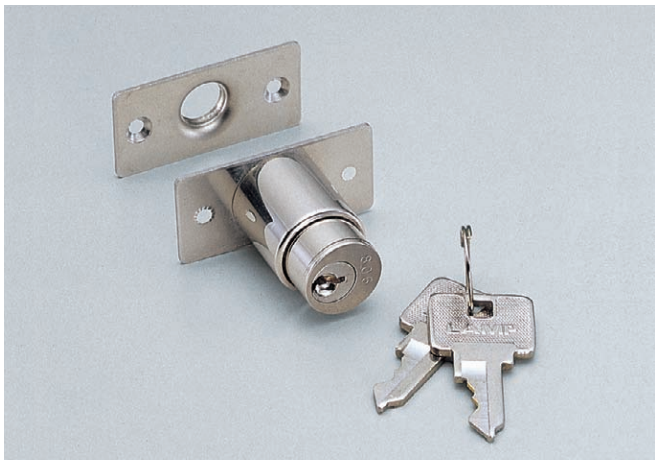


No.	Part Name	Material	Finish
①	Body	Brass	Chrome
②	Cylinder Case	Zinc Alloy (ZDC)	Chrome
③	Mounting Plate	Stainless Steel (SUS304)	Polished
④	Strike	Stainless Steel (SUS304)	Polished
⑤	Ring	Brass	Chrome
⑥	Key	Brass	Nickel

Item Code	Item Name	Key Type	Cylinder Diameter	Door Thickness	L	Weight	Box	Carton
150-022-926	2400M-20-B	Key Different	ϕ20	20	22	65 g	12 pcs	60 pcs
150-001-230	2400M-20-D	Key Alike	ϕ20	20	22	65 g	12 pcs	60 pcs
150-022-925	2400M-25-B	Key Different	ϕ20	25	27	70 g	12 pcs	60 pcs
150-001-231	2400M-25-D	Key Alike	ϕ20	25	27	70 g	12 pcs	60 pcs

PUSH LOCK 2100 Lock Series

STEEL 2100M



■Features

- For sliding doors.
- Push the cylinder to lock without using the key.
- 12 key changes available.
- Keys can be shared with 2100 Lock Series.

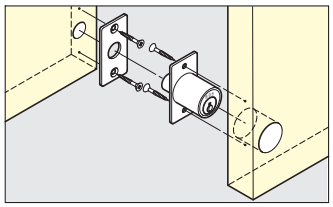
■Remarks

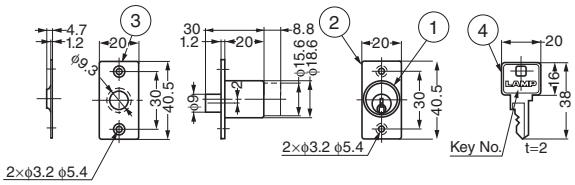
Master Key is not available.

■Parts Included

Countersunk head wood screw 2.7 × 16

■Installation





No.	Part Name	Material	Finish
①	Body	Zinc Alloy (ZDC)	Satin Nickel
②	Mounting Plate	Brass	Nickel
③	Strike	Brass	Nickel
④	Key	Brass	Nickel

Item Code	Item Name	Key Type	Cylinder Diameter	Door Thickness	Weight	Box	Carton
150-060-812	2100M-B	Key Different	φ18.6	20	60 g	12 pcs	240 pcs
150-001-044	2100M-D	Key Alike	φ18.6	20	60 g	12 pcs	240 pcs
150-063-742	2100M-25-B	Key Different	φ18.6	25	70 g	12 pcs	240 pcs
150-001-043	2100M-25-D	Key Alike	φ18.6	25	70 g	12 pcs	240 pcs

PUSH LOCK 2100 Lock Series

STEEL 2110M



■Features

- For sliding doors.
- To Lock: Insert the key and turn 60° clockwise. Push-in the cylinder and turn the key 60° back.
- Key is removable in both locked and un-locked position.
- To Unlock: Insert the key and turn 60° clockwise. Push-out the cylinder and turn the key 60° back.
- 12 key changes available.
- Keys can be shared with 2100 Lock Series.

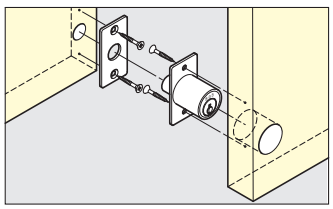
■Remarks

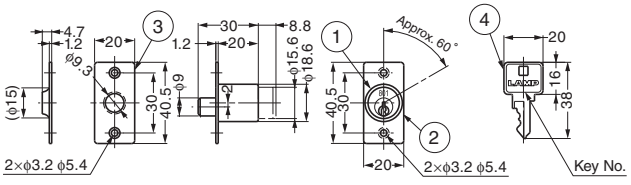
Master Key not available.

■Parts Included

Countersunk head wood screw 2.7 × 16

■Installation





No.	Part Name	Material	Finish
①	Body	Zinc Alloy (ZDC)	Satin Nickel (Core: Buffing Coated with Nickel)
②	Mounting Plate	Brass	Nickel
③	Strike	Brass	Nickel
④	Key	Brass	Nickel

Item Code	Item Name	Key Type	Cylinder Diameter	Door Thickness	Weight	Box	Carton
150-060-889	2110M-B	Key Different	φ18.6	20	60 g	12 pcs	240 pcs
150-001-045	2110M-D	Key Alike	φ18.6	20	60 g	12 pcs	240 pcs

CENTRAL LOCKING SYSTEM FOR FURNITURE 3310 Lock Series ALS3310



■Features

- Locks all drawers on one side simultaneously.
- 100 key changes available.
- Keys can be shared with other 3310 Lock Series.
- The depth of the shelf can be adjusted according to the position of the lock pin.

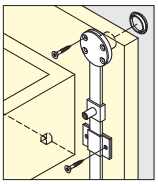
■Parts Included

Countersunk head wood screw 2.7 × 16, Pan head wood screw 2.7 × 13

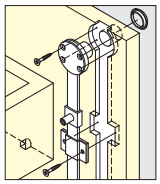
■Sold Separately

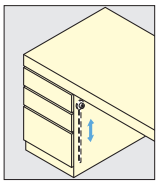
- Separate parts ALS-LP, ALS-G, ALS-GP
- Locking peg ALS-KP (optional parts)

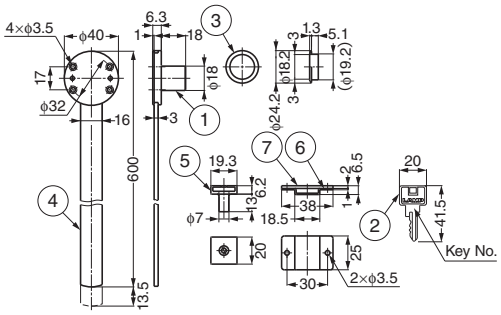
■Surface Mounting

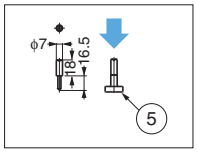


■Mortise Mounting









Use Locking Peg inserted into ⑤
for the application with drawer slides.

No.	Part Name	Material	Finish
①	Body	Zinc Alloy (ZDC)	Satin Nickel
②	Key	Brass	Nickel
③	Ring	Brass	Satin Nickel
④	Guide Bar	Aluminum Alloy	—
⑤	Lock Pin	Zinc Alloy (ZDC)	Yellow Zinc Chromate
⑥	Guide	Steel	Nickel
⑦	Guide Plate	Steel	Nickel

■Lock Set (①～⑦)

Item Code	Item Name	Key Type	Cylinder Diameter	Door Thickness	Weight	Box	Carton
150-001-041	ALS3310-B	Key Different	φ18	18	260 g	1 set	20 sets
150-001-042	ALS3310-D	Key Alike	φ18	18	260 g	1 set	20 sets

■Parts Set (⑤～⑦) (Sold Separately)

Item Code	Item Name	Part Name	No.	Weight
150-060-134	ALS-LP	Lock Pin	⑤	11.5 g
150-945-903	ALS-G	Guide	⑥	8 g
150-945-902	ALS-GP	Guide Plate	⑦	14.5 g

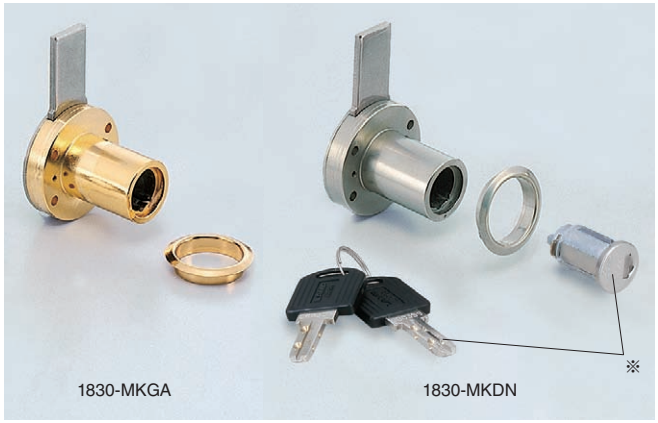
■Locking Peg (Optional Parts)

Item Code	Item Name	Material	Finish	Weight	Box	Carton
150-060-117	ALS-KP	Steel	Nickel	6.5 g	400 pcs	2,000 pcs

CENTRAL LOCKING SYSTEM FOR FURNITURE

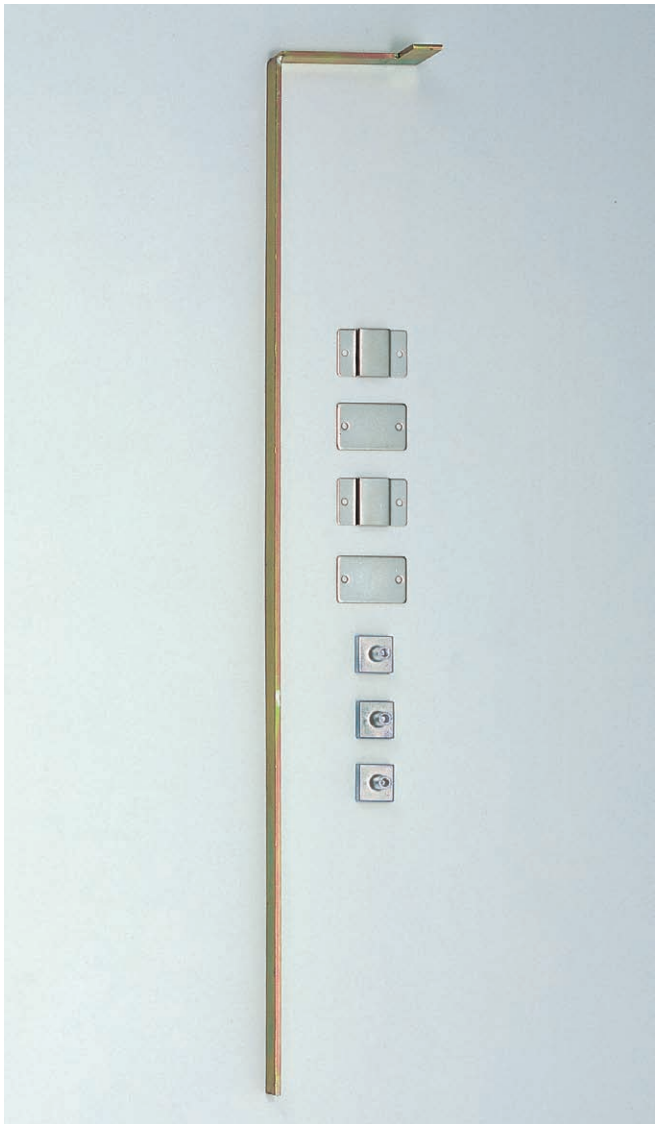
STEEL

1830-MK



1830-MKGA　　1830-MKDN

※Cylinder and key are sold separately.



Parts set ALFL (sold separately)

■Features

- Interchangeable cylinder lock with Master Key system.
- Locks all drawers on one side simultaneously.
- 7,800 key changes available. (Max. 750 key changes/Master Key)
- Keys can be shared with 1330GL-MK (P.340) and 6830-30MK (P.312).
- Cylinder lock needs to be installed on the front panel of the top drawer.
- 4 or more lock parts are sold separately.
- The depth of the drawer can be adjusted according to the position of the lock pin.
- Right-handed / left-handed bar available.

■Remarks

Cylinder can be changed by using Change Key MD-K1.

■Parts Included

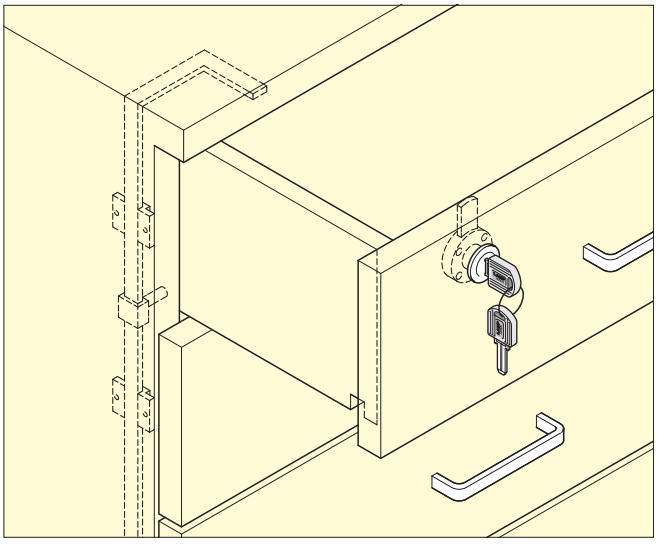
- Countersunk head wood screw 2.7 × 16
- Pan head wood screw 2.7 × 13

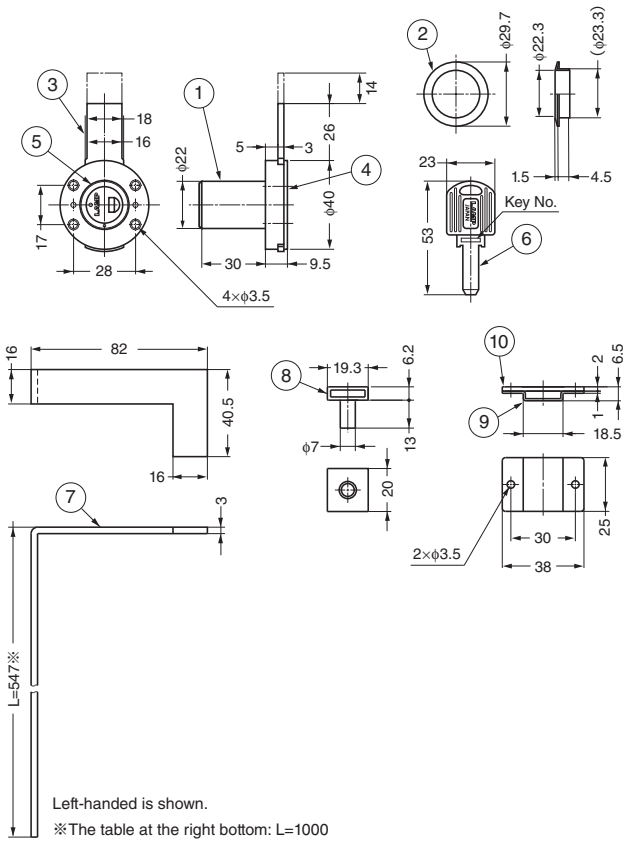
■Sold Separately

- Cylinder MD-N1 (P. 311)
- Master Key MD-MK1 (P. 311), change key MD-K1 (P. 311)
- Parts set ALFR, ALFL

■Optional Parts

- Parts (⑧～⑩)
- Locking peg ALS-KP
- Bar ALFBAR1000

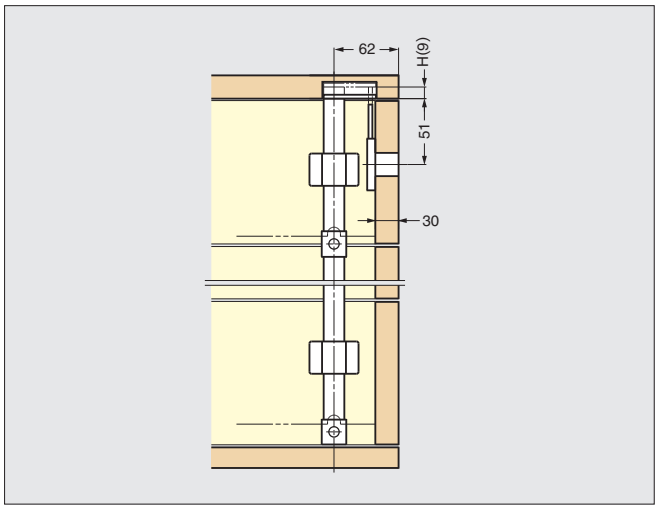




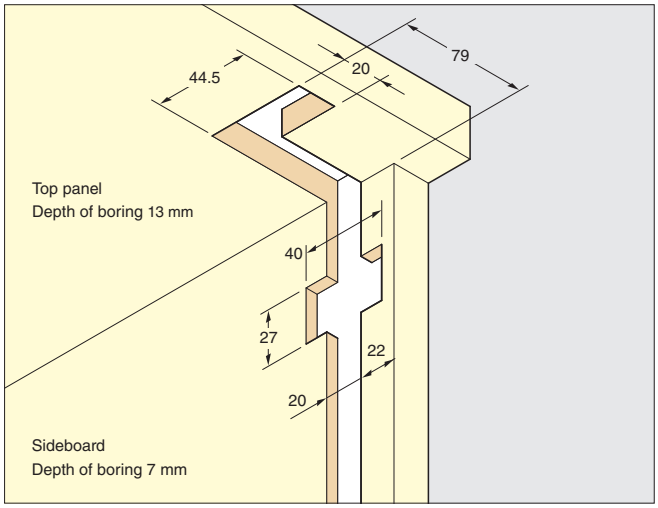
Left-handed is shown.
※The table at the right bottom: L=1000

Use Locking Peg inserted into ⑧ for the application with drawer slides.

■Installation



■Cut Out Dimensions



No.	Part Name	Material	Finish/Colour
①	Housing	Zinc Alloy (ZDC)	GA：Gold, Paint/Clear　DN：Satin Nickel
②	Ring	Brass	GA：Gold, Paint/Clear　DN：Satin Nickel
③	Dead Bolt	Stainless Steel (SUS304)	Polished
④	Cover	Stainless Steel (SUS304)	Polished
⑤	Cylinder (Sold Separately)	Stainless Steel (SUS304)/Zinc Alloy (ZDC)	Polished/Yellow Zinc Chromate
⑥	Key (Sold Separately)	Brass/ABS	Nickel/Black
⑦	Guide Bar (Sold Separately)	Steel	Yellow Zinc Chromate
⑧	Lock Pin (Sold Separately)	Zinc Alloy (ZDC)	Yellow Zinc Chromate
⑨	Guide (Sold Separately)	Steel	Nickel
⑩	Guide Plate (Sold Separately)	Steel	Nickel
⑪	Locking Peg (Option)	Steel	Nickel

■Cylinder Housing (①～④)　※Cylinder ⑤ and Key ⑥ are sold separately.

Item Code	Item Name	Finish	Cylinder Diameter	Stroke of Bar	Door Thickness	Weight	Carton
150-066-006	1830-MKGA	Gold, Paint/Clear	ϕ22	14	30	143 g	60 pcs
150-066-005	1830-MKDN	Satin Nickel	ϕ22	14	30	143 g	60 pcs

■Parts Set (⑦～⑩) (Sold Separately)

Item Code	Item Name	Left/Right	Weight	Carton
150-060-520	ALFR	Right	328 g	50 sets
150-060-521	ALFL	Left	328 g	50 sets

For the drawers over 4.

■Parts (⑧～⑩) (Optional Parts)

Item Code	Item Name	Part Name	No.	Weight
150-060-134	ALS-LP	Lock Pin for Auto-Lock	⑧	11.5 g
150-945-903	ALS-G	Guide for Auto-Lock	⑨	8　g
150-945-902	ALS-GP	Guide Plate for Auto-Lock	⑩	14.5 g

■Locking Peg (⑪) (Optional Parts)

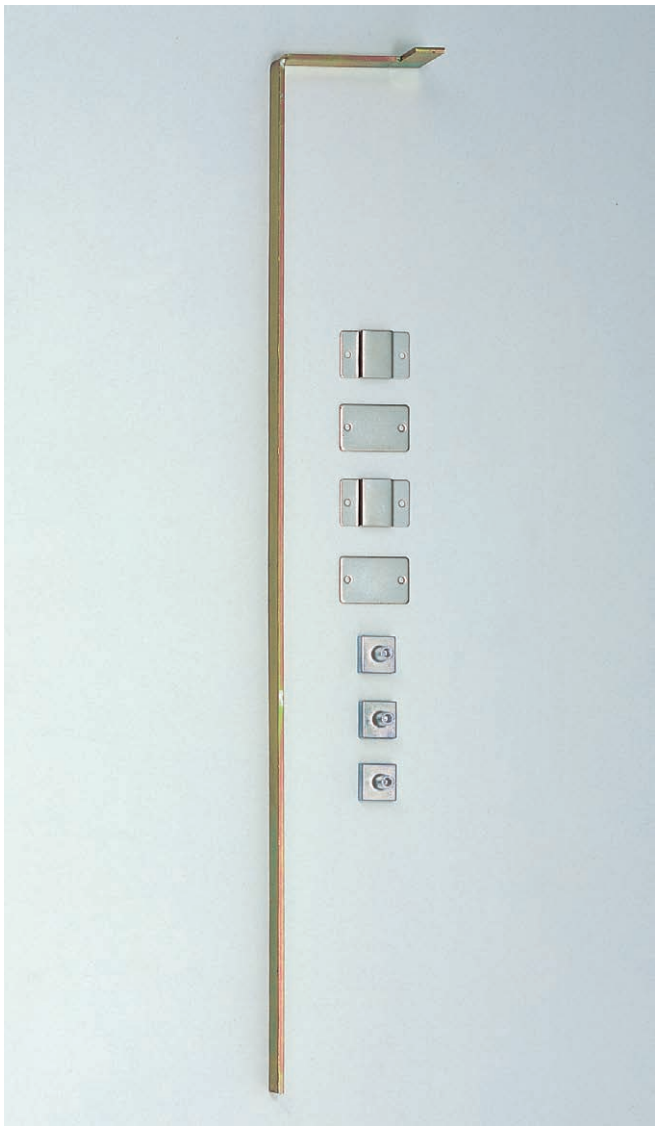
Item Code	Item Name	Weight	Box	Carton
150-060-117	ALS-KP	6.5 g	400 pcs	2,000 pcs

■Guide Bar (⑦L=1000) (Optional Parts)

Item Code	Item Name	Left/Right	Weight	Box	Carton
150-028-521	ALFBAR1000R	Right	407 g	10 pcs	50 pcs
150-028-522	ALFBAR1000L	Left	407 g	10 pcs	50 pcs

CENTRAL LOCKING SYSTEM FOR FURNITURE Million Lock Series ALF1800





Parts set ALFL (sold separately)

■Features

- Locks all drawers on one side simultaneously.
- Reversible key.
- Able to detach the key at any angle within 360˚.
- 1 million key changes available.
- Master Key system available at surcharge.
  (Max. 2,520 key changes/Master Key.)
- Cylinder to be applied to the top shelf, front or back of board.
- 4 or more lock parts are sold separately.
- The depth of the shelf can be adjusted according to the position of the lock pin.
- Right-handed / left-handed bar is available.

■Parts Included

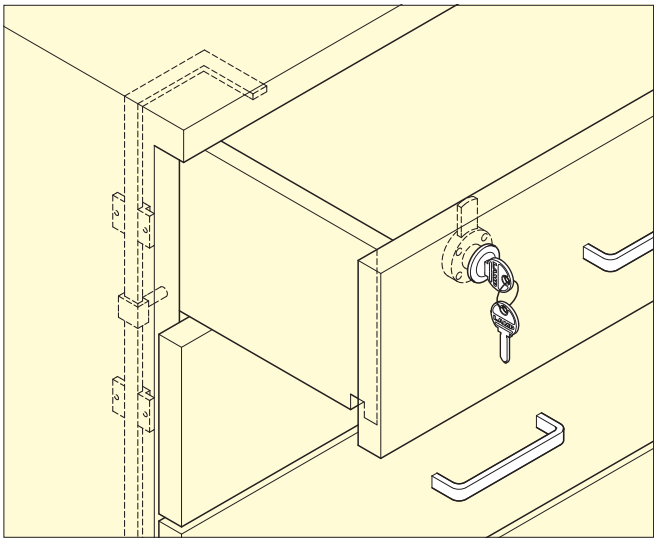
Countersunk head wood screw 2.7 × 16
Pan head wood screw 2.7 × 13

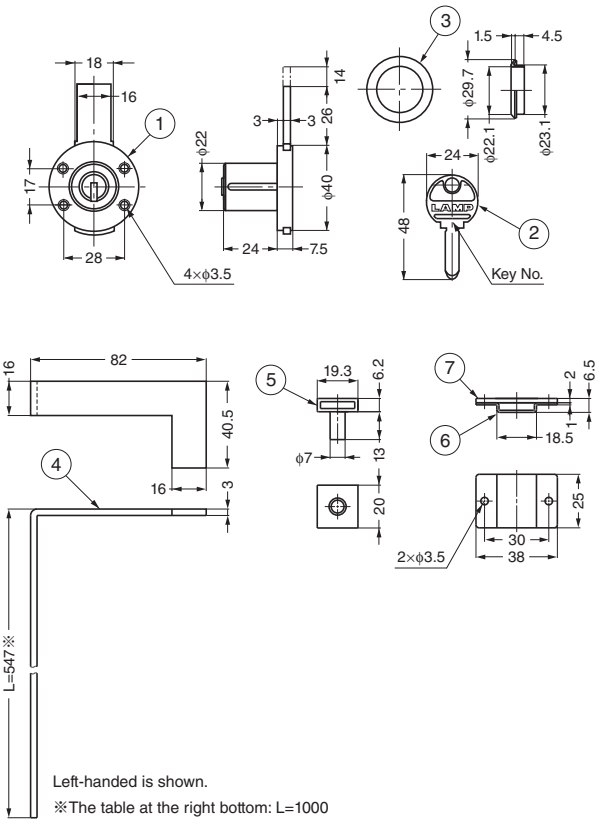
■Sold Separately

- Parts set ALFR, ALFL
- Separate parts ALS-LP, ALS-G, ALS-GP

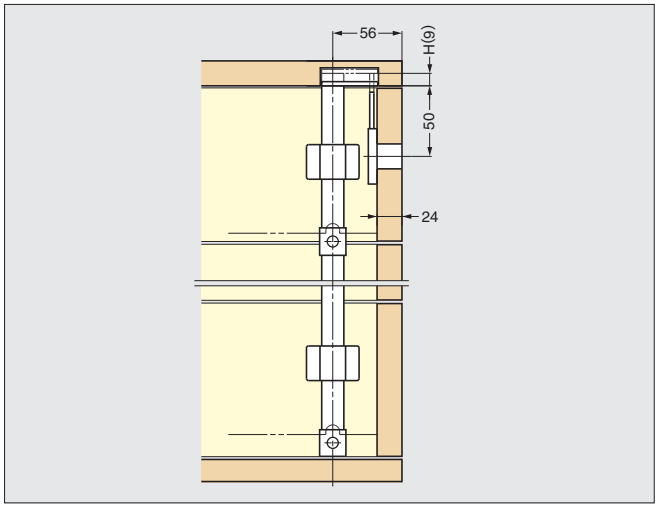
■Optional Parts

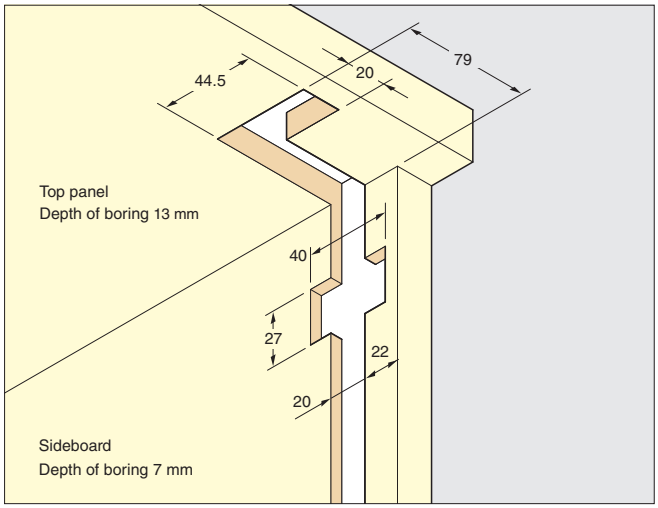
- Locking peg ALS=KP
- Bar ALFBAR1000

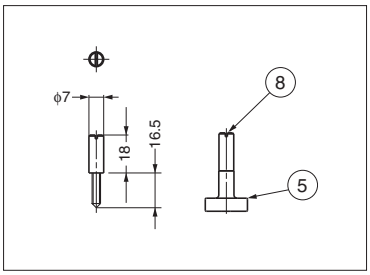




Left-handed is shown.
※The table at the right bottom: L=1000







Use Locking Peg inserted into ⑤
for the application with drawer slides.

No.	Part Name	Material	Finish
①	Body	Brass	Satin Nickel
②	Key	Brass	Nickel
③	Ring	Brass	Satin Nickel
④	Guide Bar (Sold Separately)	Steel	Yellow Zinc Chromate
⑤	Lock Pin (Sold Separately)	Zinc Alloy (ZDC)	Yellow Zinc Chromate
⑥	Guide (Sold Separately)	Steel	Nickel
⑦	Guide Plate (Sold Separately)	Steel	Nickel
⑧	Locking Peg (Option)	Steel	Nickel

■Cylinder Lock (①～③)

Item Code	Item Name	Key Type	Cylinder Diameter	Stroke of Bar	Door Thickness	Weight	Carton
150-060-253	ALF1800-B	Key Different	φ22	14	24	194 g	60 pcs
150-001-033	ALF1800-D	Key Alike	φ22	14	24	194 g	60 pcs

Please contact our sales exectives for this item with master function.

■Parts Set (④～⑦) (Sold Separately)

Item Code	Item Name	Left/Right	Weight	Carton
150-060-520	ALFR	Right	328 g	50 sets
150-060-521	ALFL	Left	328 g	50 sets

■Locking Peg for All-Lock (⑧) (Optional Parts)

Item Code	Item Name	Weight	Box	Carton
150-060-117	ALS-KP	6.5 g	400 pcs	2,000 pcs

For the drawers over 4.

■Parts (⑤～⑦) (Optional Parts)

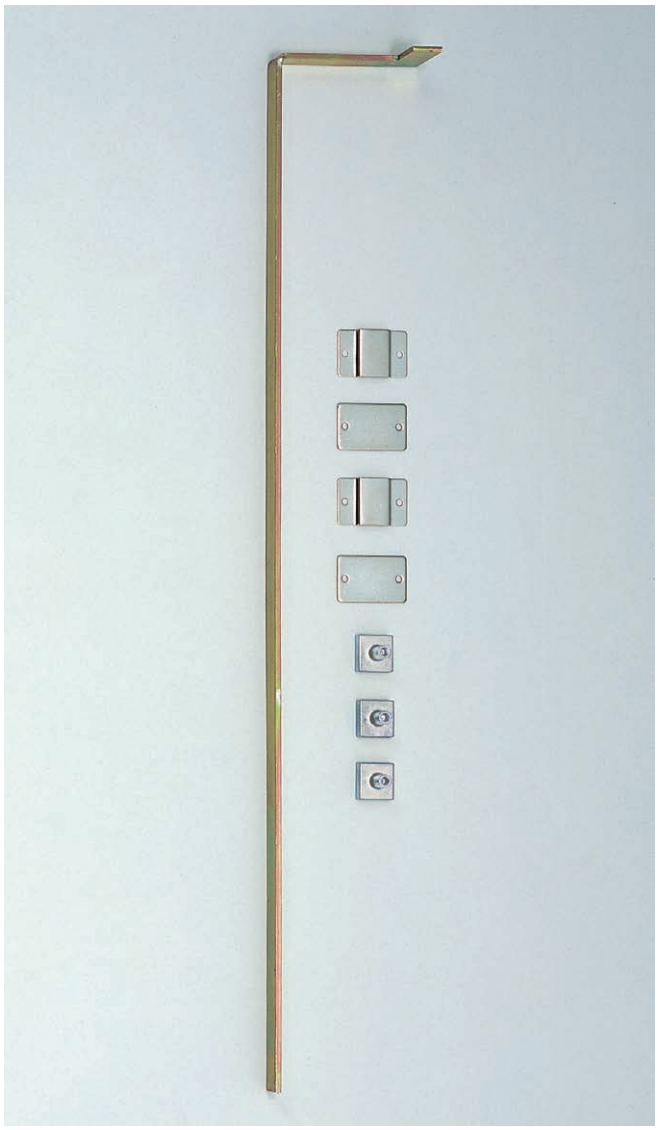
Item Code	Item Name	Part Name	No.	Weight
150-060-134	ALS-LP	Lock Pin for Auto-Lock	⑤	11.5 g
150-945-903	ALS-G	Guide for Auto-Lock	⑥	8 g
150-945-902	ALS-GP	Guide Plate for Auto-Lock	⑦	14.5 g

■Guide Bar (④L=1000) (Optional Parts)

Item Code	Item Name	Left/Right	Weight	Box	Carton
150-028-521	ALFBAR1000R	Right	407 g	10 pcs	50 pcs
150-028-522	ALFBAR1000L	Left	407 g	10 pcs	50 pcs

CENTRAL LOCKING SYSTEM FOR FURNITURE 3310 Lock Series ALF1600





Parts set ALS-LP, ALS-G, ALS-GP (sold separately)

■Features

- Locks all drawers on one side simultaneously.
- 100 key changes available.
- Cylinder lock needs to be installed on the front panel of the top drawer.
- 4 or more lock parts are sold separately.
- The depth of the shelf can be adjusted according to the position of the lock pin.
- Right-handed / left-handed bar is available.
- Body can be made black chromate finish as special order.
- The cylinder of ALF1800 (P.330) can be applied to this system for 1 million key changes at maximum.

■Parts Included

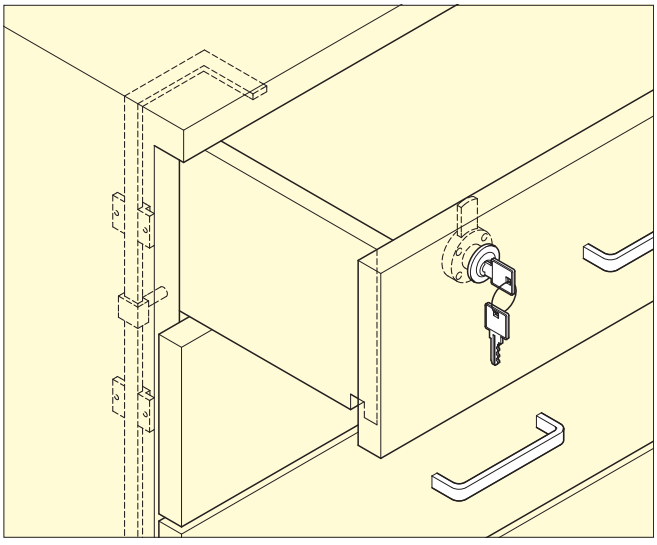
Countersunk head wood screw 2.7 × 16
Pan head wood screw 2.7 × 13

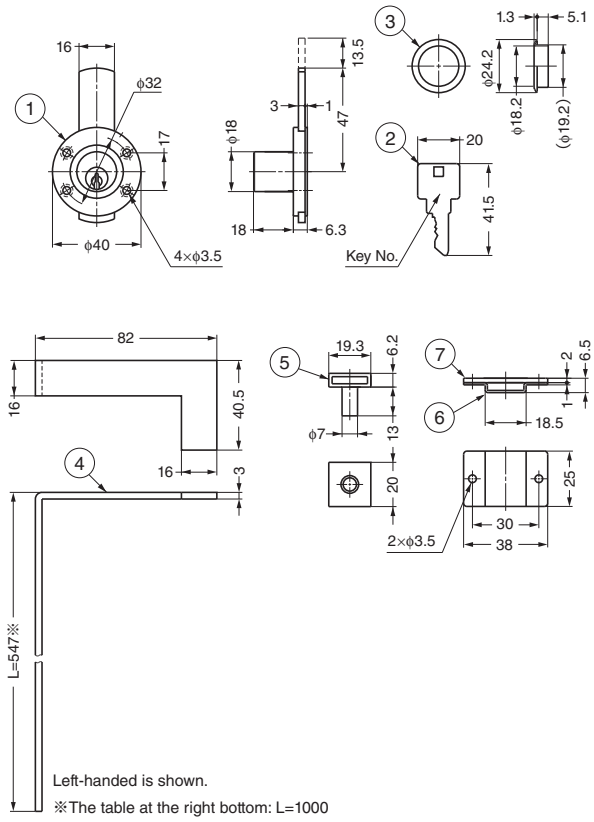
■Sold Separately

- Parts set ALFR, ALFL
- Separate parts ALS-LP, ALS-G, ALS-GP

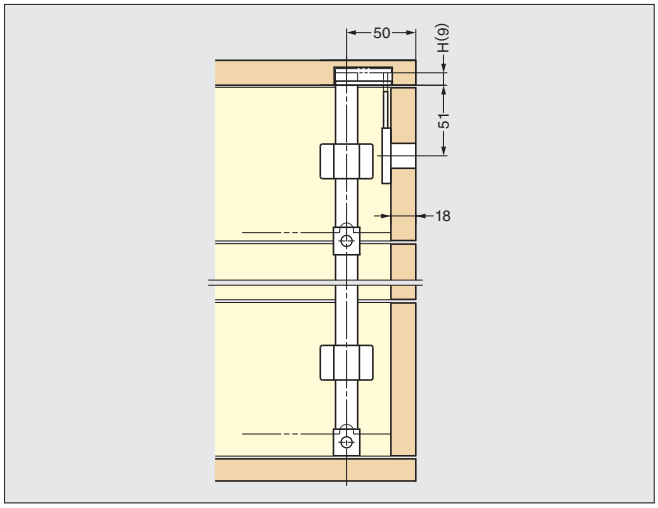
■Optional Parts

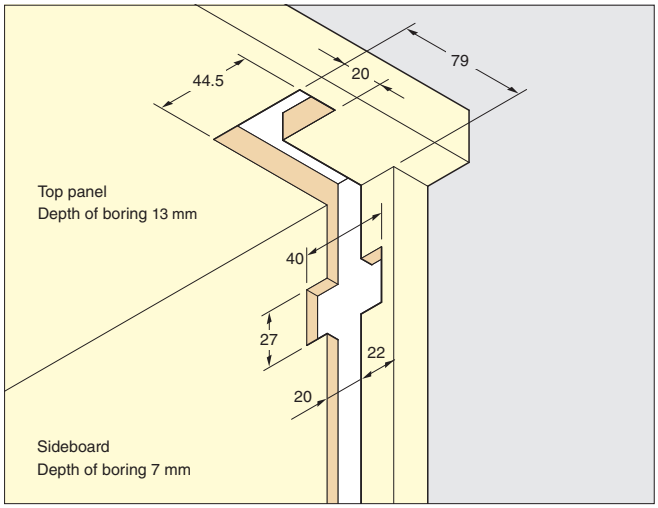
- Locking peg ALS-KP
- Bar ALFBAR1000

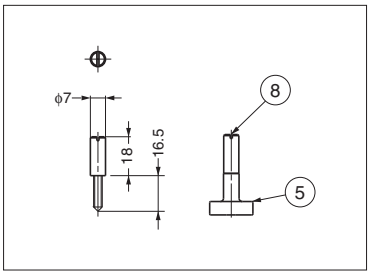




Left-handed is shown.
※The table at the right bottom: L=1000







Use Locking Peg inserted into ⑤
for the application with drawer slides.

No.	Part Name	Material	Finish
①	Body	Zinc Alloy (ZDC)	Satin Nickel
②	Key	Brass	Nickel
③	Ring	Brass	Satin Nickel
④	Guide Bar (Sold Separately)	Steel	Yellow Zinc Chromate
⑤	Lock Pin (Sold Separately)	Zinc Alloy (ZDC)	Yellow Zinc Chromate
⑥	Guide (Sold Separately)	Steel	Nickel
⑦	Guide Plate (Sold Separately)	Steel	Nickel
⑧	Locking Peg (Option)	Steel	Nickel

■Cylinder Lock (①～③)

Item Code	Item Name	Key Type	Cylinder Diameter	Stroke of Bar	Door Thickness	Weight	Carton
150-061-251	ALF1600-B	Key Different	ϕ18	13.5	18	84 g	50 pcs
150-001-034	ALF1600-D	Key Alike	ϕ18	13.5	18	84 g	50 pcs

■Parts Set (④～⑦) (Sold Separately)

Item Code	Item Name	Left/Right	Weight	Carton
150-060-520	ALFR	Right	328 g	50 sets
150-060-521	ALFL	Left	328 g	50 sets

For the drawers over 4.

■Parts (⑤～⑦) (Optional Parts)

Item Code	Item Name	Part Name	No.	Weight
150-060-134	ALS-LP	Lock Pin for Auto-Lock	⑤	11.5 g
150-945-903	ALS-G	Guide for Auto-Lock	⑥	8 g
150-945-902	ALS-GP	Guide Plate for Auto-Lock	⑦	14.5 g

■Locking Peg for All-Lock (⑧) (Optional Parts)

Item Code	Item Name	Weight	Box	Carton
150-060-117	ALS-KP	6.5 g	400 pcs	2,000 pcs

■Guide Bar (④L=1000) (Optional Parts)

Item Code	Item Name	Left/Right	Weight	Box	Carton
150-028-521	ALFBAR1000R	Right	407 g	10 pcs	50 pcs
150-028-522	ALFBAR1000L	Left	407 g	10 pcs	50 pcs

CENTRAL LOCKING SYSTEM FOR FURNITURE (WITH INDICATOR) 2200 Lock Series

STEEL

ALS2200



■Features

- Locks all drawers on one side simultaneously.
- With indicator: Unlocked - Blue, Locked - Red.
- 12 key changes available. (Max. 300 key changes as special order)
- Master Key system (170 key changes) available at surcharge. (1 Master Key only.)
- Keys can be shared with other 2200 Lock Series.
- The depth of the shelf can be adjusted according to the position of the lock pin.

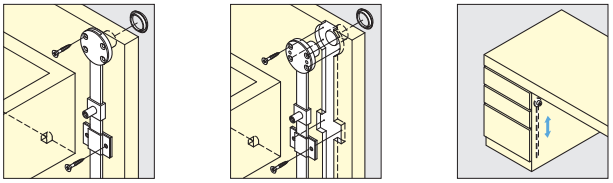
■Parts Included

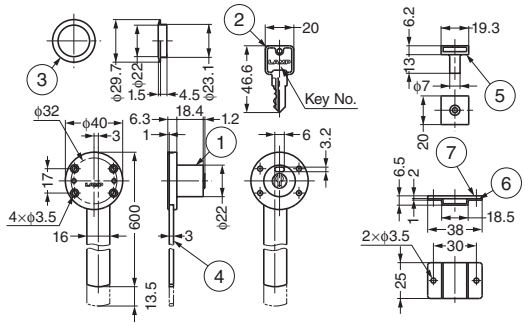
- Countersunk head wood screw 2.7 × 16
- Pan head wood screw 2.7 × 13

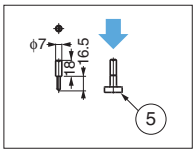
■Sold Separately

- Separate parts ALS-LP, ALS-G, ALS-GP
- Locking peg ALS-KP (optional parts)

■Surface Mounting ■Mortise Mounting







Use Locking Peg inserted into ⑤
for the application with drawer slides.

No.	Part Name	Material	Finish
①	Body	Zinc Alloy (ZDC)	Satin Nickel
②	Key	Brass	Nickel
③	Ring	Brass	Satin Nickel
④	Guide Bar	Aluminum Alloy	–
⑤	Lock Pin	Zinc Alloy (ZDC)	Yellow Zinc Chromate
⑥	Guide	Steel	Nickel
⑦	Guide Plate	Steel	Nickel

■Lock Set (①～⑦)

Item Code	Item Name	Key Type	Cylinder Diameter	Door Thickness	Weight	Box	Carton
150-060-921	ALS2200-B	Key Different	ϕ22	18	253 g	1 set	20 sets
150-060-920	ALS2200-D	Key Alike	ϕ22	18	253 g	1 set	20 sets

Please contact our sales executives for master function.

■Parts (⑤～⑦) (Sold Separately)

Item Code	Item Name	Part Name	No.	Weight
150-060-134	ALS-LP	Lock Pin for All-Lock	⑤	11.5 g
150-945-903	ALS-G	Guide for All-Lock	⑥	8 g
150-945-902	ALS-GP	Guide Plate for All-Lock	⑦	14.5 g

■Locking Peg (Optional Parts)

Item Code	Item Name	Material	Finish	Weight	Box	Carton
150-060-117	ALS-KP	Steel	Nickel	6.5 g	400 pcs	2,000 pcs

CENTRAL LOCKING SYSTEM FOR FURNITURE 2100 Lock Series ALS2100



■Features

- Locks all drawers on one side simultaneously.
- 12 key changes available.
- Keys can be shared with other 2100 Lock Series.
- The depth of the shelf can be adjusted according to the position of the lock pin.

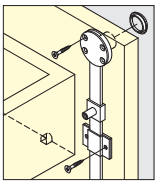
■Parts Included

Countersunk head wood screw 2.7 × 16, Pan head wood screw 2.7 × 13

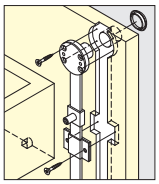
■Optional Parts

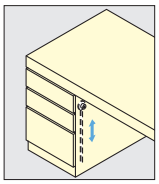
- Separate parts ALS-LP, ALS-G, ALS-GP
- Locking peg ALS-KP (optional parts)

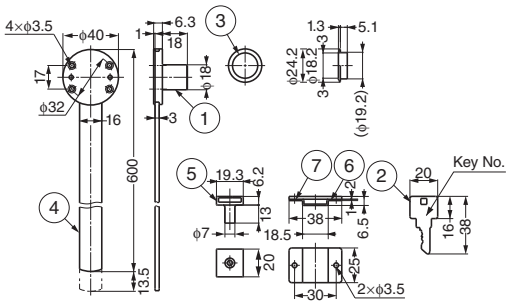
■Surface Mounting

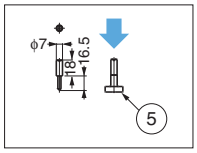


■Mortise Mounting









Use Locking Peg inserted into ⑤
for the application with drawer slides.

No.	Part Name	Material	Finish
①	Body	Zinc Alloy (ZDC)	Satin Nickel
②	Key	Brass	Nickel
③	Ring	Brass	Satin Nickel
④	Guide Bar	Aluminum Alloy	—
⑤	Lock Pin	Zinc Alloy (ZDC)	Yellow Zinc Chromate
⑥	Guide	Steel	Nickel
⑦	Guide Plate	Steel	Nickel

■Lock Set (①～⑦)

Item Code	Item Name	Key Type	Cylinder Diameter	Door Thickness	Weight	Box	Carton
150-001-039	ALS2100-B	Key Different	φ18	18	267 g	1 set	12 sets
150-001-040	ALS2100-D	Key Alike	φ18	18	267 g	1 set	12 sets

■Parts (⑤～⑦) (Sold Separately)

Item Code	Item Name	Part Name	No.	Weight
150-060-134	ALS-LP	Lock Pin	⑤	11.5 g
150-945-903	ALS-G	Guide	⑥	8 g
150-945-902	ALS-GP	Guide Plate	⑦	14.5 g

■Locking Peg (Optional Parts)

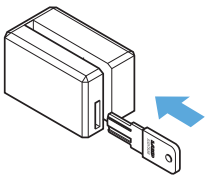
Item Code	Item Name	Material	Finish	Weight	Box	Carton
150-060-117	ALS-KP	Steel	Nickel	6.5 g	400 pcs	2,000 pcs

GLASS SHOWCASE HARDWARE XL-GC



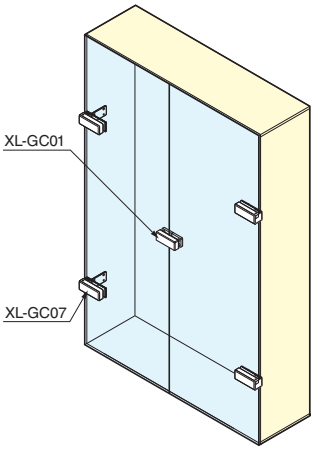
■Features

- Hinges, Locks and Sliding door hardware with integrated design.
- Swing and Sliding Doors can be operated with a single key.
- Key hole is located on the side for clean appearance.

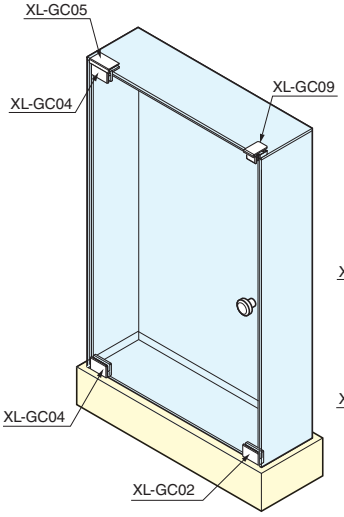


Video Link

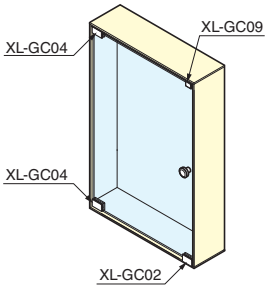
■Double Door



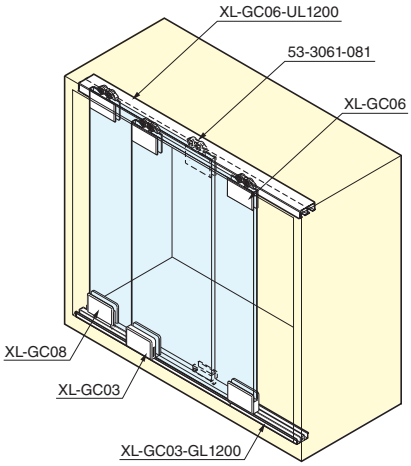
■Swing Door



Can be installed on wooden cabinet.



■Sliding Door



■Locks

Item	Item Name		Page
For Double Doors	XL-GC01-CR		P.337
For Swing Doors	XL-GC02-CR		
For Sliding Doors	XL-GC03-CR		

■Hinges

Item	Item Name		Page
Inset Type	XL-GC04-CR		P.449
Overlay Type	XL-GC07-CR		
Glass Bracket	XL-GC05-CR		

■Sliding Door Hardware

Item	Item Name		Page
Upper Bracket	XL-GC06-CR		P.642
Bottom Guide Bracket	XL-GC08-CR		

■Catch

Item	Item Name		Page
Magnetic Catch	XL-GC09-CR		P.274

LOCK FOR DOUBLE SWINGING GLASS DOOR XL-GC01



■Features

- Non-handed. Key hole located on the right side for clean appearance and high security.
- Key works as a knob in unlocked position.
- 24 key changes available.

■Remarks

Use with XL-GC09-CR (P.274) for inset doors.

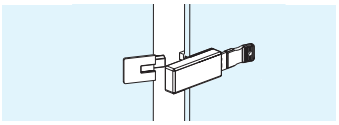
■Parts Included

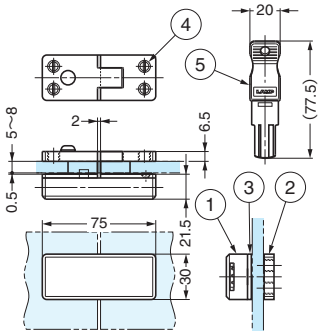
- Gasket
- Transparent bumper



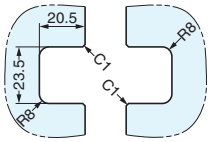
Transparent bumper (included)

■Installation





■Cut Out Dimensions



No	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy (ZDC)	Chrome
②	Strike	Zinc Alloy (ZDC)	Chrome
③	Spacer	Vinyl Chloride Resin (PVC)	Clear
④	Fixing Screw	Stainless Steel (SUS304)	Plain
⑤	Key	Brass/ABS	Nickel/Black

Item Code	Item Name	Key Type	Glass Thickness	Weight	Carton
150-061-100	XL-GC01-CR-B	Key Different	5, 6, 8	400 g	24 pcs
150-001-052	XL-GC01-CR-D	Key Alike	5, 6, 8	400 g	24 pcs

LOCK FOR INSET SWINGING GLASS DOOR XL-GC02

STAINLESS



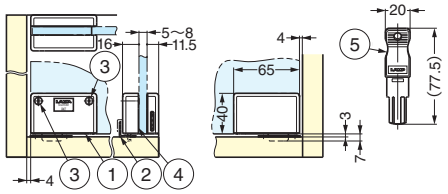
Left

■Features

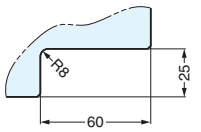
- Non-handed. Key hole located on the right side for clean appearance and high security.
- 24 key changes available.

■Parts Included

- Gasket
- Countersunk head wood screw 3.1 × 20 (SUS)



■Cut Out Dimensions



No	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy (ZDC)	Chrome
②	Strike	Stainless Steel (SUS304)/Chloroprene Rubber (CR)	Gloss Barrel/Black
③	Fixing Screw	Stainless Steel (SUS304)	Plain
④	Spacer	Rubber	Black
⑤	Key	Brass/ABS	Nickel/Black

Item Code	Item Name	Key Type	Type	Glass Thickness	Weight	Carton
150-061-102	XL-GC02-R-CR-B	Key Different	Right	5, 6, 8	411 g	24 pcs
150-001-054	XL-GC02-R-CR-D	Key Alike	Right	5, 6, 8	411 g	24 pcs
150-061-101	XL-GC02-L-CR-B	Key Different	Left	5, 6, 8	411 g	24 pcs
150-001-053	XL-GC02-L-CR-D	Key Alike	Left	5, 6, 8	411 g	24 pcs

LOCK FOR SLIDING GLASS DOOR XL-GC03



■Features

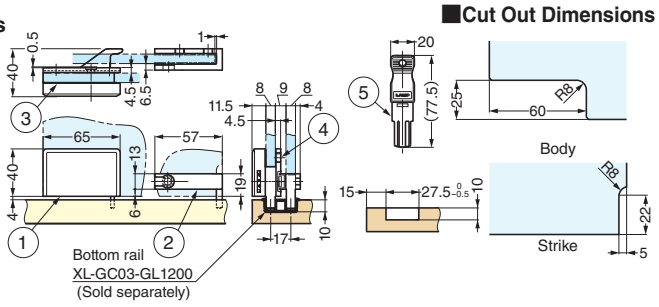
- Non-handed. Key hole located on the right side for clean appearance and high security.
- 24 key changes available.

■Remarks

Please order 1 pc for 2 doors.

■Optional Parts

XL-GC03-GL1200
(P.641)



■Cut Out Dimensions

No	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy (ZDC)	Chrome
②	Strike	Zinc Alloy (ZDC)	Chrome
③	Spacer	Rubber	Black
④	Fixing Screw	Stainless Steel (SUS304)	Plain
⑤	Key	Brass/ABS	Nickel/Black

Item Code	Item Name	Key Type	Glass Thickness	Weight	Carton
150-061-103	XL-GC03-CR-B	Key Different	8	371 g	24 pcs
150-001-055	XL-GC03-CR-D	Key Alike	8	371 g	24 pcs

ELECTRONIC LOCK SYSTEM

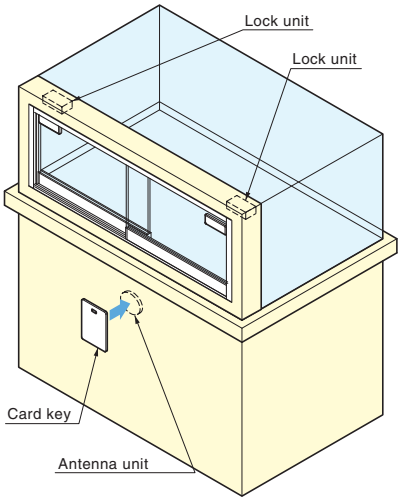
STEEL **EXCELOCK**



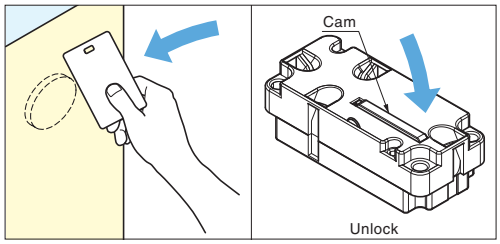
■Features

- Able to lock or unlock by passing card key over the antenna. The door will be automatically locked after closed.
- Able to apply to glass or wooden swinging doors and sliding doors.
- Key is applied RF-ID system. Easy to register and erase the key numbers without operation, optional computers and changing parts.
- Able to install the antenna unit inside the cabinet.
- Connect all units with plugging connector.
- No need of battery by connecting XL-ECU with AC adapter.
- No need of battery for the key. Max. 30 key changes can be registered (2 additional control key can be registered).
- 1 system (1 XL-ECU) can connect with 4 lock units and control 8 locks.
- Able to expand the lock system and the number of locks by applying XL-EEU.

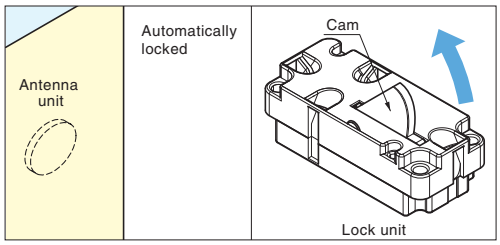
■Installation



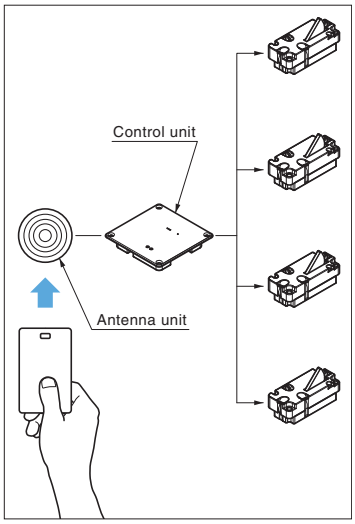
■How to Unlock



■How to Lock

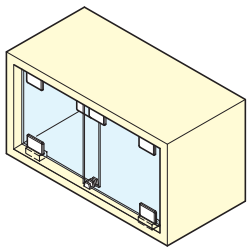


■Manage Multiple Locks

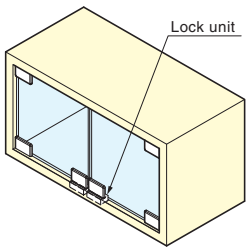


■Installation

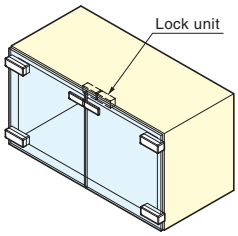
①Glass sliding door



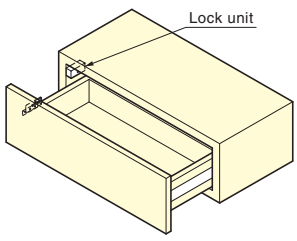
②Glass inset swinging door



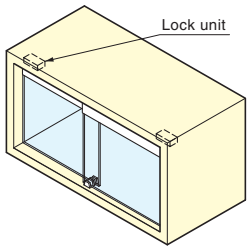
③Glass overlay swinging door



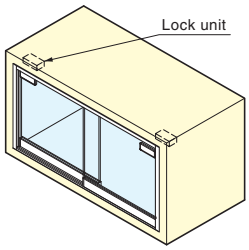
④Drawer



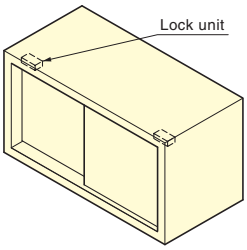
⑤Glass sliding door



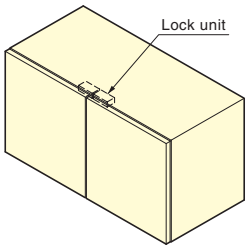
⑥Glass sliding door

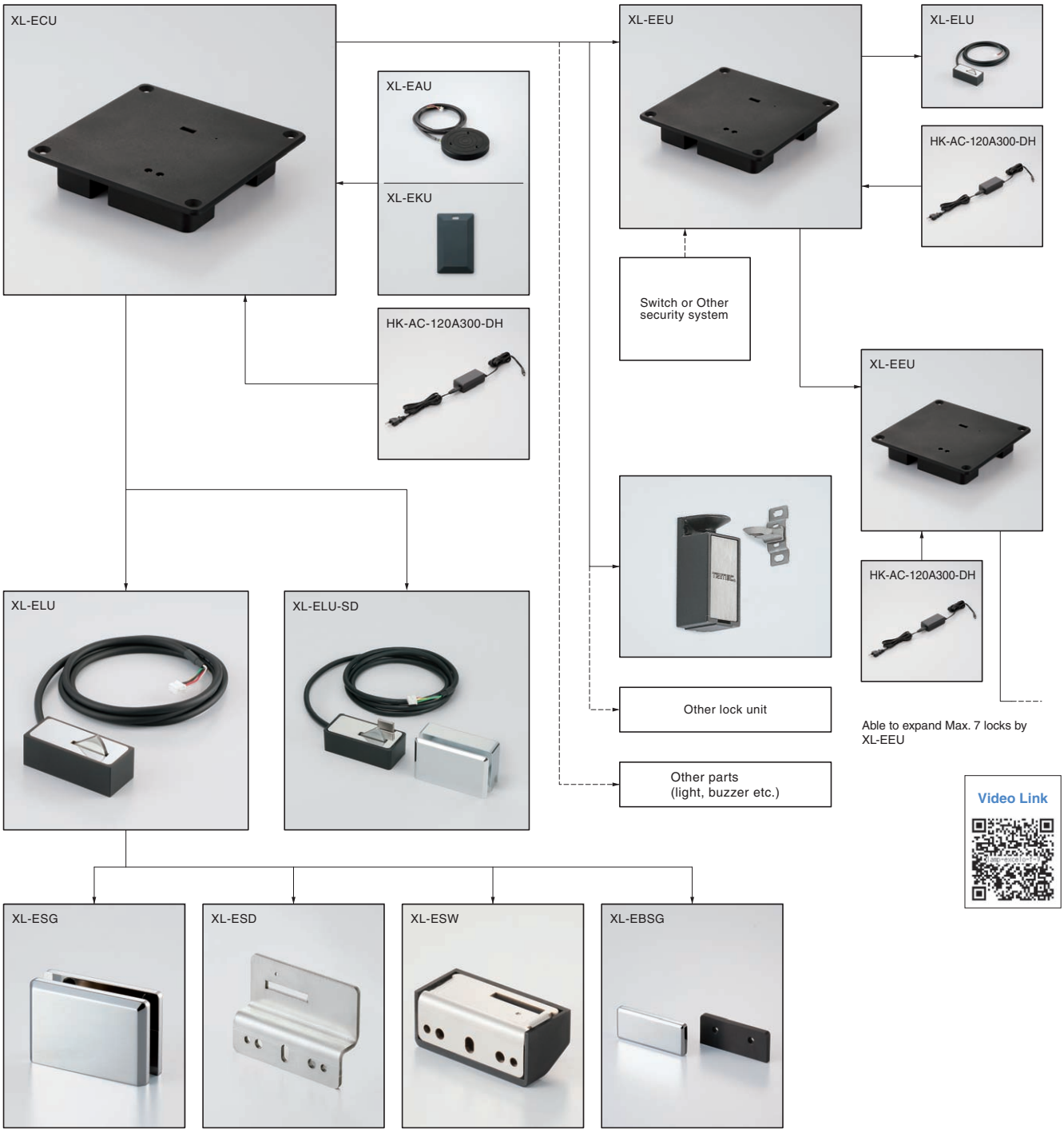


⑦Wooden sliding door



⑧Wooden overlay door





■System Specification

Communication Method		RF-ID 416 kHz	
Operating Method		Motor driven	
Power Supply		AC adapter HK-AC-120 A 300-DH	
Operating Temperature		0˚C - 40˚C	
Sensing Distance		0 - 30 mm	
Electrical Characteristics	**Standby Current**	20 mA (Unlocked)	
	Operating Current	Under 600 mA (Use 4 lock units)	
Number of Terminal		4 lock units, 4 other lock units, 1 other parts	
Number of Lock Unit Connected		Single application	4 lock units
		Multiple application	
		XL-EEU	Able to expand 7 locks at maximum by XL-EEU. Connect lock unit as above.
Key Changes Registered		Max. 30 key changes + 2 control key	

GLASS DOOR CAM LOCK

STAINLESS

1330GL-MK



※Cylinder and key are sold separately.

■Features

- Interchangeable cylinder lock with Master Key system.
- Allows key management and cylinder replacement is easy in case key is lost.
- Key and cam rotate clockwise when locked. Key can be removed when locked and unlocked.
- 7,800 key changes available. (Max. 750/Master Key)
- Simple design for cylinder ring and hidden cam when locked.
- Keys can be shared with 1830-MK (P.328) and 6830-30MK (P.312).

■Remarks

Cylinder can be changed by using Change Key MD-K1

■Parts Included

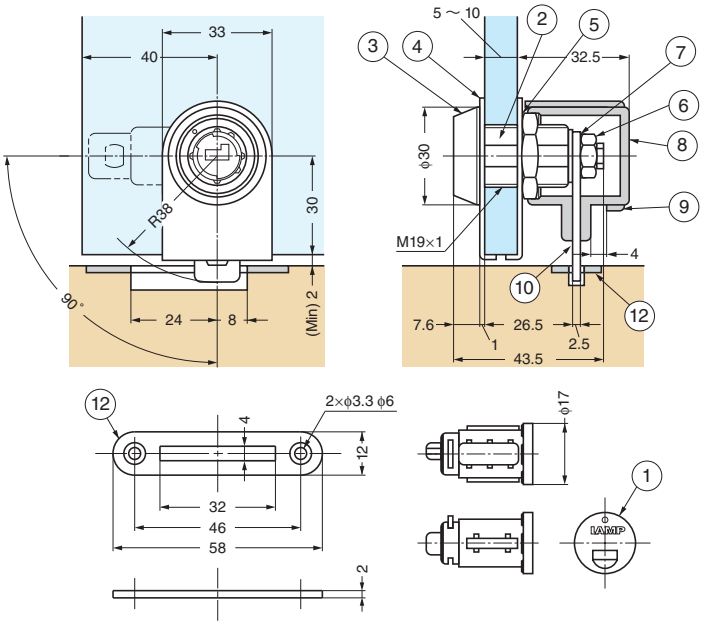
Countersunk head wood screw 2.7 × 13 (SUS)

■Sold Separately

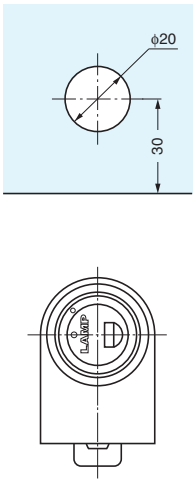
Cylinder MD-N1 (P.311)

■Optional Parts

Master Key MD-MK1 (P.311)
Change Key MD-K1 (P.311)



■Cut Out Dimension



No.	Part Name	Material	Finish/Colour
①	Cylinder (Sold Separately)	Stainless Steel (SUS304)/Zinc Alloy (ZDC)	Polished, Yellow Zinc Chromate
②	Housing	Zinc Alloy (ZDC)	GA：Gold, Paint/Clear, DN：Satin Nickel
③	Ring	Brass	GA：Gold, Paint/Clear, DN：Satin Nickel
④	Front Plate	Stainless Steel (SUS304)	GA：Gold, Paint/Clear, DN：Plain
⑤	Large Hex Nut	Steel	Yellow Zinc Chromate
⑥	Small Hex Nut	Steel	Yellow Zinc Chromate
⑦	Washer	Steel	Clear Zinc Chromate
⑧	Cover	Polypropylene (PP)	Black
⑨	Ring	Polypropylene (PP)	Black
⑩	Cam	Stainless Steel (SUS304)	Polished
⑪	Key (Sold Separately)	Brass/ABS	Nickel/Black
⑫	Strike	Stainless Steel (SUS304)	Polished

※Cylinder ① and Key ⑪ are sold separately.

Item Code	Item Name	Finish	Glass Thickness	Weight	Box	Carton
150-066-004	1330GL-MKGA	Gold, Paint/Clear	5～10	130 g	12 pcs	60 pcs
150-066-003	1330GL-MKDN	Satin Nickel	5～10	130 g	12 pcs	60 pcs

GLASS DOOR CAM LOCK Million Lock Series

STAINLESS

1300GL

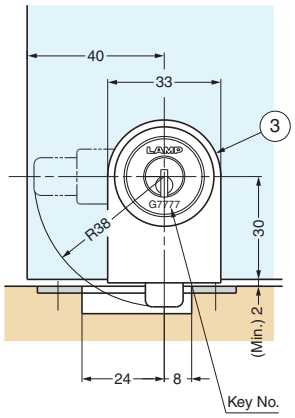


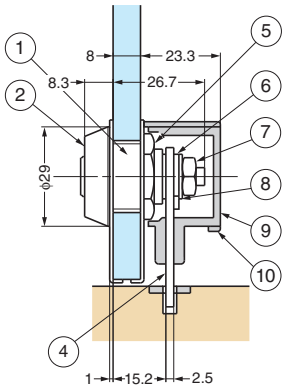
■Features

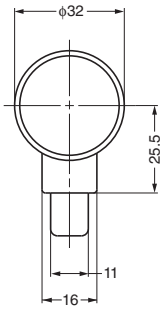
- Dimple key lock series. Ideal for showcase application.
- Reversible key. Lock and unlock to turn key 360˚ and cam turns 90˚.
- Able to remove key when locked and unlocked.
- 1 million key changes available.
- Master Key system available at surcharge.
  (Max. 2,520 key changes/Master Key.)
- Keys can be shared with other Million Lock Series.

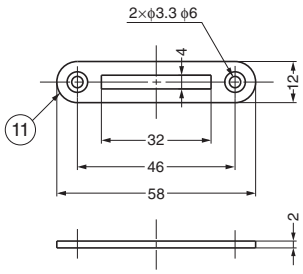
■Parts Included

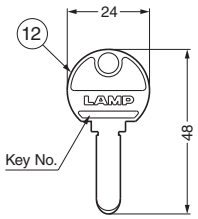
Countersunk head wood screw 2.7 × 13 (SUS)



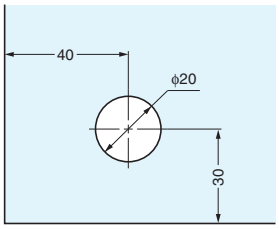




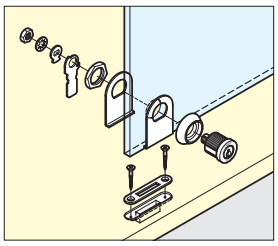




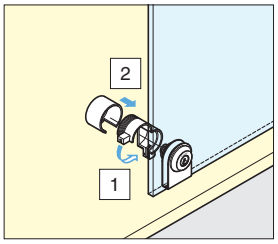
■Cut Out Dimensions



■Installation



■How to Install ⑨Cover & ⑩Ring



No.	Part Name	Material	Finish/Colour
①	Body	Brass	Satin Nickel
②	Ring	Brass	Satin Nickel
③	Front Plate	Stainless Stee (SUS304)	Polished
④	Cam	Stainless Steel (SUS304)	Polished
⑤	Hex Nut	Steel	Special Anti Rust Paint/Silver
⑥	Small Cam	Brass	Nickel
⑦	Hex Nut	Steel	Special Anti Rust Paint/Silver
⑧	Washer	Steel	Special Anti Rust Paint/Silver
⑨	Cover	Polypropylene (PP)	Black
⑩	Ring	Polypropylene (PP)	Black
⑪	Strike	Stainless Steel (SUS304)	Polished
⑫	Key	Brass	Nickel

Item Code	Item Name	Key Type	Glass Thickness	Weight	Box	Carton
150-060-219	1300GL-B	Key Different	5~8	140 g	12 pcs	60 pcs
150-001-056	1300GL-D	Key Alike	5~8	140 g	12 pcs	60 pcs

Please contact us for this item with Master Key system.

GLASS DOOR CAM LOCK Million Lock Series

STAINLESS

1310GL

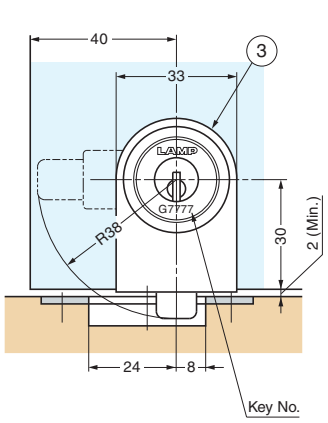


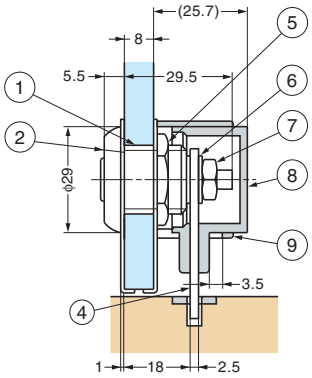
■Features

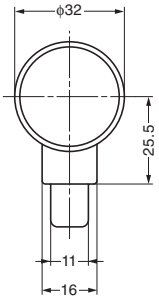
- Dimple key lock series. Ideal for showcase application.
- Reversible key can be removed when locked.
- 1 million key changes available.
- Master Key system available at surcharge.
  (Max. 2,520 key changes/Master Key.)
- Keys can be shared with other Million Lock Series.

■Parts Included

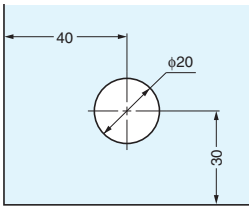
Countersunk head wood screw 2.7 × 13 (SUS)

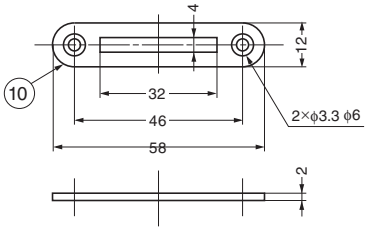


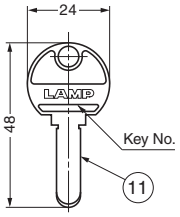




■Cut Out Dimensions







No.	Part Name	Material	Finish/Colour			
			SN	CR	GC	BL
①	Body	Brass	Satin Nickel	Chrome	Gold	Black Chrome
②	Ring	Brass	Satin Nickel	Chrome	Gold	Black Chrome
③	Front Plate	Stainless Steel (SUS304)	Satin	Polished	Gold	Black Chrome
④	Cam	Stainless Steel (SUS304)	Plain			
⑤	Hex Nut	Steel	Special Anti Rust Painting/Silver			
⑥	Washer	Steel	Special Anti Rust Painting/Silver			
⑦	Hex Nut	Steel	Special Anti Rust Painting/Silver			
⑧	Cover	Polypropylene (PP)	Black			
⑨	Ring	Polypropylene (PP)	Black			
⑩	Strike	Stainless Steel (SUS304)	Polished			Black Chrome
⑪	Key	Brass	Nickel			

Item Code	Item Name	Finish	Key Type	Glass Thickness	Weight	Box	Carton
150-060-945	1310GL-SN-B	Satin Nickel	Key Different	5～8	139 g	12 pcs	60 pcs
150-060-944	1310GL-SN-D	Satin Nickel	Key Alike	5～8	139 g	12 pcs	60 pcs
150-060-947	1310GL-CR-B	Chrome	Key Different	5～8	139 g	12 pcs	60 pcs
150-060-946	1310GL-CR-D	Chrome	Key Alike	5～8	139 g	12 pcs	60 pcs
150-060-949	1310GL-GC-B	Gold	Key Different	5～8	139 g	12 pcs	60 pcs
150-060-948	1310GL-GC-D	Gold	Key Alike	5～8	139 g	12 pcs	60 pcs
150-028-535	1310GL-BL-B	Black Chrome	Key Different	5～8	139 g	12 pcs	60 pcs
150-001-248	1310GL-BL-D	Black Chrome	Key Alike	5～8	139 g	12 pcs	60 pcs

Please contact us for this item with Master Key system.

GLASS DOOR CAM LOCK Million Lock Series

STAINLESS

1310GLW

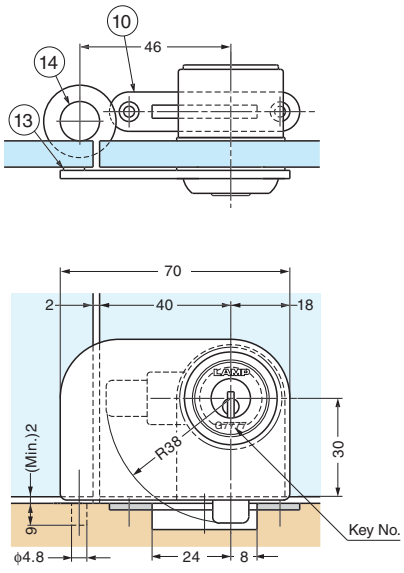


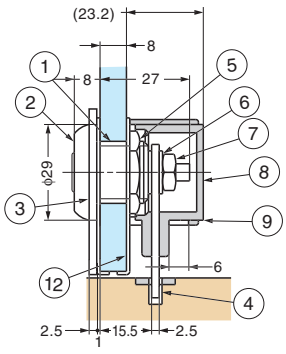
■Features

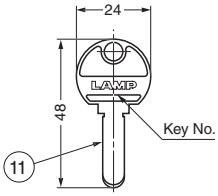
- For double door application.
- Dimple key lock series. Ideal for showcase application.
- Reversible key can be removed when locked and turn 90˚ rotation clockwise.
- 1 million key changes available.
- Master Key system available at surcharge.
  (Max. 2,520 key changes/Master Key.)
- Keys can be shared with Million Lock Series.

■Parts Included

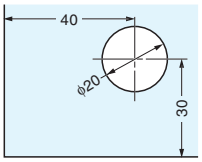
Countersunk head wood screw 2.7 × 13 (SUS)



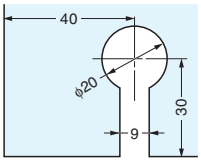




■Cut Out Dimensions



5 or 6 mm glass thickness



8 mm glass thickness

No.	Part Name	Material	Finish/Colour		
			SN	CR	GC
①	Body	Brass	Satin Nickel	Chrome	Gold
②	Ring	Brass	Satin Nickel	Chrome	Gold
③	Plate	Brass	Satin Nickel	Chrome	Gold
④	Cam	Stainless Steel (SUS304)	Plain		
⑤	Hex Nut	Steel	Special Anti Rust Painting/Silver		
⑥	Washer	Steel	Special Anti Rust Painting/Silver		
⑦	Hex Nut	Steel	Special Anti Rust Painting/Silver		
⑧	Cover	Polypropylene (PP)	Black		
⑨	Ring	Polypropylene (PP)	Black		
⑩	Strike	Stainless Steel (SUS304)	Polished		
⑪	Key	Brass	Nickel		
⑫	Plate	Stainless Steel (SUS304)	Polished		
⑬	Clear Bumper BS-40	Polyurethane (PUR)	Clear		
⑭	Stopper SS-324BR	Polyamide (PA)	Brown		

Item Code	Item Name	Key Type	Glass Thickness	Weight	Box	Carton
150-060-951	1310GLW-SN-B	Key Different	5~8	206 g	12 pcs	60 pcs
150-060-950	1310GLW-SN-D	Key Alike	5~8	206 g	12 pcs	60 pcs
150-060-953	1310GLW-CR-B	Key Different	5~8	206 g	12 pcs	60 pcs
150-060-952	1310GLW-CR-D	Key Alike	5~8	206 g	12 pcs	60 pcs
150-060-955	1310GLW-GC-B	Key Different	5~8	206 g	12 pcs	60 pcs
150-060-954	1310GLW-GC-D	Key Alike	5~8	206 g	12 pcs	60 pcs

Please contact us for this item with Master Key system.

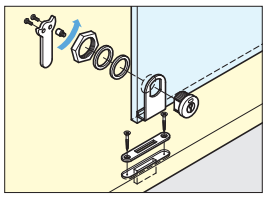
GLASS DOOR CAM LOCK (W/INDICATOR) 2200 Lock Series 2200GL

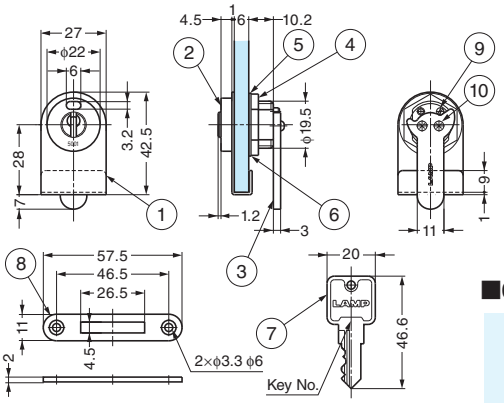


Features

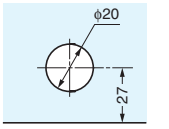
- With indicator: Unlocked - Blue, Locked - Red.
- Ideal for application of showcase or audio rack.
- Available for both right and left swing door.
- Key can be removed when locked.
- 12 key changes available. (Max. 300 key changes as special order)
- Master Key system (170 key changes) available at surcharge. (1 Master Key only.)
- Keys can be shared with 2200 Lock Series.

Installation





Cut Out Dimensions



No.	Part Name	Material	Finish/Colour/Type
①	Front Plate	Stainless Steel (SUS304)	Polished
②	Body	Zinc Alloy (ZDC)	Satin Nickel
③	Cam	Steel	Nickel
④	Hex Nut	Brass	Nickel
⑤	Plastic Washer	Polyamide (PA)	Natural
⑥	Washer	Steel	Chrome
⑦	Key	Brass	Nickel
⑧	Strike	Steel	Chrome
⑨	Screw (Stopper for the Lock Plate)	Brass	Plain
⑩	Screw (for Installing the Lock Plate)	Steel	Nickel/Pan Head Screw M2.5×8

Item Code	Item Name	Key Type	Glass Thickness	Weight	Box
150-062-066	2200GL-B	Key Different	4～6	75 g	12 pcs
150-060-914	2200GL-D	Key Alike	4～6	75 g	12 pcs

Please contact us for this item with Master Key system.

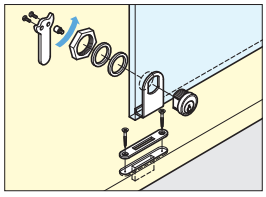
GLASS DOOR CAM LOCK 2100 Lock Series 2100GL

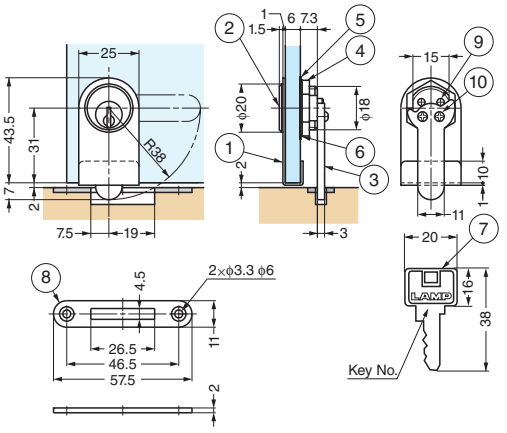


Features

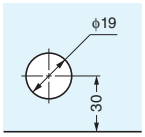
- Ideal for application of showcase or audio rack.
- Available for both right and left swing door.
- Key can be removed when locked.
- 12 key changes available in stock.
- Keys can be shared with 2100 Lock Series.

Installation





Cut Out Dimensions



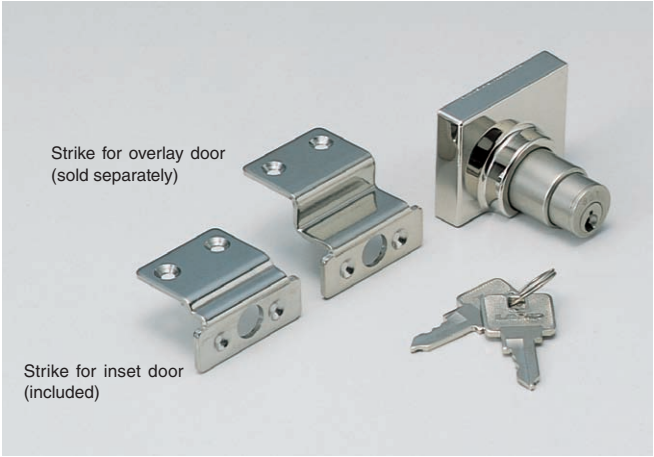
No.	Part Name	Material	Finish/Colour/Type
①	Front Plate	Stainless Steel (SUS304)	Polished
②	Body	Brass	Satin Nickel
③	Cam	Steel	Nickel
④	Hex Nut	Brass	Nickel
⑤	Plastic Washer	Polyamide (PA)	Natural
⑥	Washer	Steel	Chrome
⑦	Key	Brass	Nickel
⑧	Strike	Steel	Chrome
⑨	Screw (Stopper for the Lock Plate)	Brass	Plain
⑩	Screw (for Installing the Lock Plate)	Steel	Nickel/Pan Head Screw M2.5×8

Item Code	Item Name	Key Type	Glass Thickness	Weight	Box
150-001-057	2100GL-B	Key Different	4～6	75 g	12 pcs
150-001-058	2100GL-D	Key Alike	4～6	75 g	12 pcs

GLASS DOOR LOCK 2100 Lock Series

STAINLESS

MKL-2100



■Features

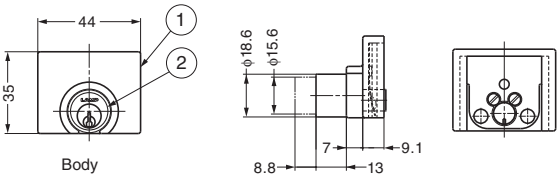
- Pre-drilling on glass not required.
- For inset door.
  MKL-B mounting plate (option) is available for overlay.
- Key different type possible as special order (12 key changes).
- Keys can be shared with 2100 Lock Series.

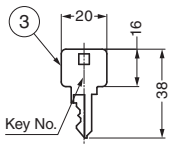
■Parts Included

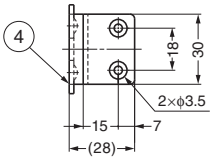
- Mounting plate for inset doors
- Flat head cross screws 3.1 × 1.6 (SUS)

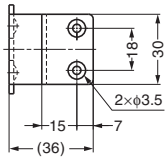
■Optional Parts

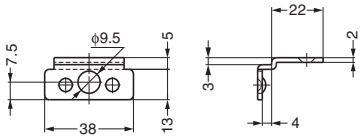
Mounting plate for overlay door MKL-B



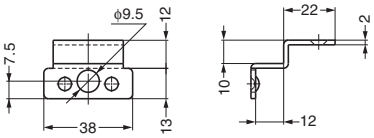






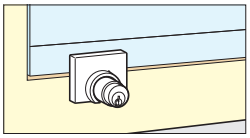


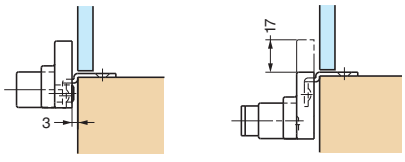
Strike for inset door (included)



Strike for overlay door (sold separately)

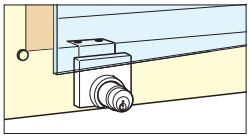
■Inset Door

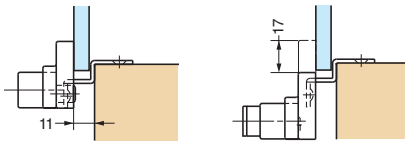




Locked Unlocked

■Overlay Door





Locked Unlocked

No.	Part Name	Material	Finish
①	Plate	Zinc Alloy (ZDC)	Nickel
②	Push Lock	Zinc Alloy (ZDC)	Searchlight Chrome
③	Key	Brass	Nickel
④	Counter Plate for Inset Door	Stainless Steel (SUS304)	Polished

■Body

Item Code	Item Name	Key Type	Glass Thickness	Weight	Box	Carton
150-069-709	MKL-2100-D	Key Alike	5～8	125 g	12 pcs	60 pcs

■Counter Plate for Overlay Door (Optional Parts)

Item Code	Item Name	Material	Finish	Box	Carton
150-069-538	MKL-B	Stainless Steel (SUS304)	Polished	60 pcs	360 pcs

PUSH LOCK 2100 Lock Series

STEEL **2100B**

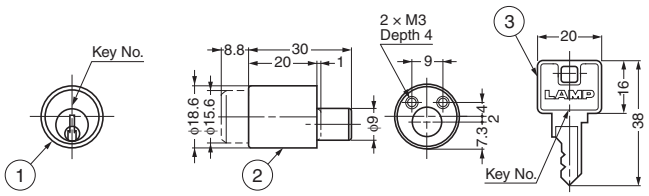


■Features

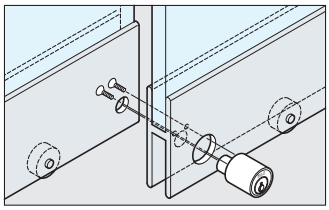
- For metal-framed glass doors or sheet metal double sliding doors.
- Push the cylinder to lock.
- Insert and turn key to unlock (60˚ rotation).
- 12 key changes available.
- Keys can be shared with 2100 Lock Series.

■Parts Included

Countersunk head screw M3 × 5



■Installation



No.	Part Name	Material	Finish
①	Body	Zinc Alloy (ZDC)	Nickel
②	Cylinder Case	Brass	Nickel
③	Key	Brass	Nickel
—	Key Ring	Stainless Steel (SUS304)	Nickel

Item Code	Item Name	Key Type	Cylinder Diameter	Thickness	Weight	Box	Carton
150-001-070	2100B-B	Key Different	ϕ18.6	20	50 g	40 pcs	400 pcs
150-001-071	2100B-D	Key Alike	ϕ18.6	20	50 g	40 pcs	400 pcs

PUSH LOCK 2100 Lock Series

STEEL **2110B**

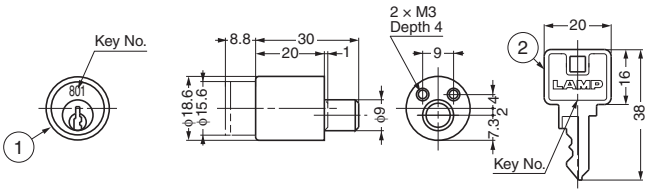


■Features

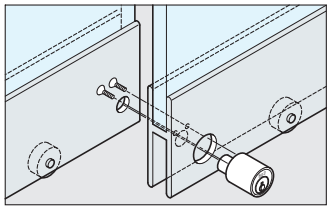
- For metal-framed glass doors or sheet metal double sliding doors.
- To Lock: Insert key and turn 60˚ clockwise. Push-in the cylinder with key and turn 60˚ back.
- To Unlock: Insert key and turn 60˚ clockwise and lock will automatically disengage. Turn the key 60˚ back and remove.
- 12 key changes available.
- Keys can be shared with 2100 Lock Series.

■Parts Included

Countersunk head screw M3 × 5



■Installation



No.	Part Name	Material	Finish
①	Body	Zinc Alloy (ZDC)	Satin Nickel (Core: Buffing Nickel Coating)
②	Key	Brass	Nickel

Item Code	Item Name	Key Type	Cylinder Diameter	Thickness	Weight	Box	Carton
150-001-072	2110B-B	Key Different	ϕ18.6	20	50 g	40 pcs	400 pcs
150-001-073	2110B-D	Key Alike	ϕ18.6	20	50 g	40 pcs	400 pcs

PUSH LOCK

STEEL

2150B, 2160B

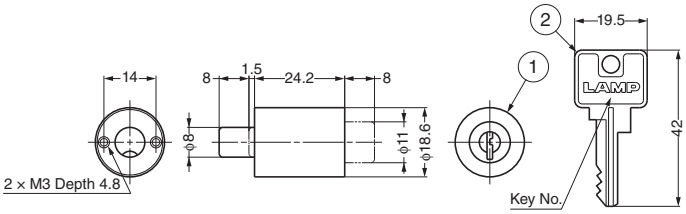


■Features

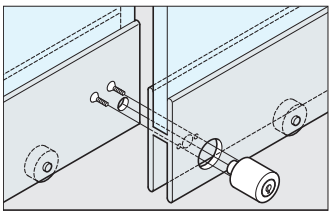
- For metal-framed glass doors and sheet metal double sliding doors.
- How to lock:
  2150B - push cylinder to lock.
  2160B - turn key to lock and unlock.
- 24 key changes available.

■Parts Included

Countersunk head screw M3 × 5



■Installation



No.	Part Name	Material	Finish
①	Body	Zinc Alloy (ZDC)	Nickel
②	Key	Brass	Nickel

Item Code	Item Name	Key Type	How to Lock	Cylinder Diameter	Frame Thickness	Weight	Box	Carton
150-060-410	2150B-B	Key Different	Without Key	φ18.6	24	50 g	24 pcs	240 pcs
150-060-411	2150B-D	Key Alike	Without Key	φ18.6	24	50 g	24 pcs	240 pcs
150-060-069	2160B-B	Key Different	With Key	φ18.6	24	50 g	24 pcs	240 pcs
150-060-070	2160B-D	Key Alike	With Key	φ18.6	24	50 g	24 pcs	240 pcs

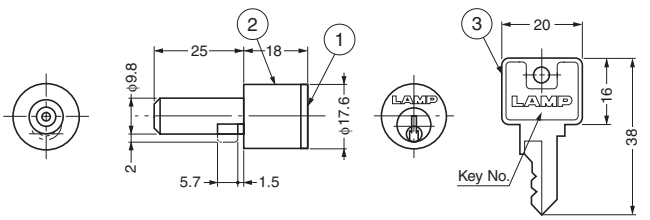
GLASS DOOR LOCK

6300-D

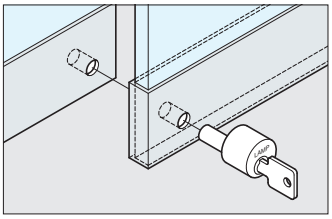


■Features

- For metal-framed glass doors or sheet metal double sliding doors.
- Easy installation. Just 10 mm bore required on the door.
- Remove cylinder along with key to unlock.
- 96 key changes available.



■Installation



No.	Part Name	Material	Finish
①	Body	Zinc Alloy (ZDC)	Satin Nickel
②	Cylinder Case	Brass	Nickel
③	Key	Brass	Nickel

Item Code	Item Name	Key Type	Cylinder Diameter	Frame Thickness	Metal Sheet Thickness	Weight	Box	Carton
150-001-145	6300-D	Key Alike	φ9.8	19	1.2	50 g	24 pcs	240 pcs

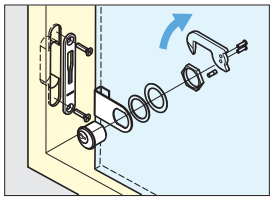
GLASS DOOR CAM LOCK 2100 Lock Series 2100GLK

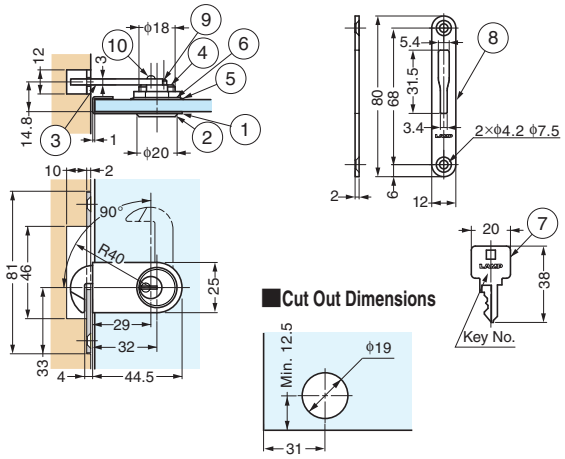


■Features

- For swinging glass doors. Ideal for showcase application.
- Available for both right and left swing door.
- The key is removable only when locked.
- 12 key changes available.
- Keys can be shared with 2100 Lock Series.

■Installation





■Cut Out Dimensions

No.	Part Name	Material	Finish
①	Front Plate	Stainless Steel (SUS304)	Satin
②	Body	Brass	Satin Nickel
③	Cam	Steel	Nickel
④	Hex Nut	Brass	Nickel
⑤	Plastic Washer	Polyamide (PA)	Natural
⑥	Washer	Steel	Nickel
⑦	Key	Brass	Nickel
⑧	Strike	Steel	Nickel
⑨	Screw (Stopper for the Lock Plate)	Brass	Plain
⑩	Screw (for Installing the Lock Plate)	Steel	Nickel

Item Code	Item Name	Key Type	Cylinder Diameter	Glass Thickness	Weight	Box	Carton
150-020-475	2100GLK-B	Key Different	ϕ20	4～6	75 g	12 pcs	120 pcs
150-001-147	2100GLK-D	Key Alike	ϕ20	4～6	75 g	12 pcs	120 pcs

CAM LOCK DIS-022R-D



■Features

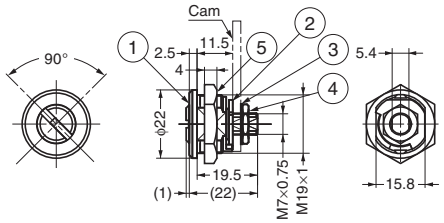
- Thin cylinder lock with dimple key.
- Reversible key can be removed when locked and unlocked (90˚ rotation).

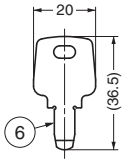
■Remarks

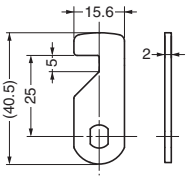
Cam and strike are sold separately.

■Sold Separately

- Stainless cam DIS-010
- Stainless strike DIS-011



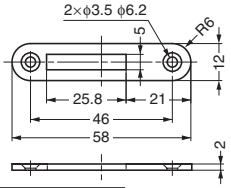




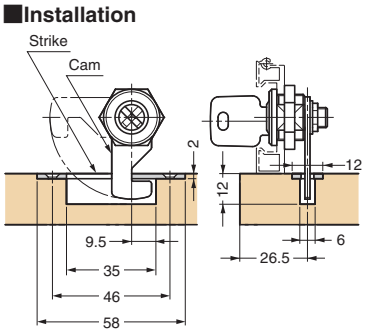
Cam (sold separately)



Strike
(sold separately)



■Installation



No.	Part Name	Material	Finish
①	Body	Brass	Chrome
②	Cam	Steel (SPCC)	Yellow Zinc Chromate
③	Washer	Steel	Yellow Zinc Chromate
④	M7 Hex Nut	Steel	Yellow Zinc Chromate
⑤	M19 Hex Nut	Zinc Alloy (ZDC)	Yellow Zinc Chromate
⑥	Key	Brass	Nickel

■Body

Item Code	Item Name	Key Type	Door Thickness	Weight	Box
150-018-944	DIS-022R-D	Key Alike	Max. 5	50 g	50 pcs

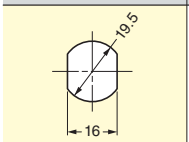
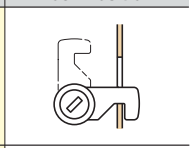
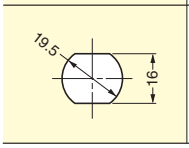
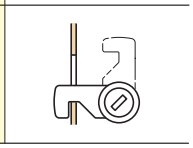
■Cam (Sold Separately)

Item Code	Item Name	Material	Finish	Weight
180-018-598	DIS-010	Stainless Steel (SUS304)	Polished	7 g

■Strike (Sold Separately)

Item Code	Item Name	Material	Finish	Weight
180-018-599	DIS-011	Stainless Steel (SUS304)	Polished	7 g

Parts included：Countersunk head wood screw 2.7×13 (SUS)

Cut Out Dimensions	Lock Position
	
	

SECURITY CAM LOCK

NO990



NO990VC-B (With drill-protection cover)　NO990R-B (Without drill-protection cover)

■Features

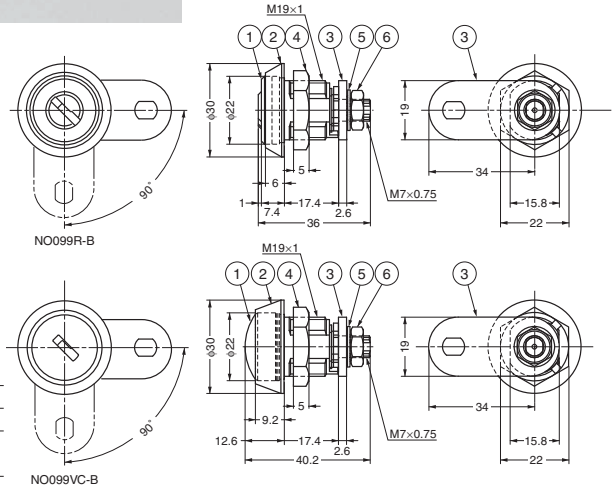
- Specially designed key with magnet prevents from lock-picking and duplication of the key.
- Key can be removed when locked (90˚ rotation).
- With/without drill-protection cover available.
- Max. 40,000 key changes available.
- Lock without ring can be made to order.

■Application

Vending machine, ATM.



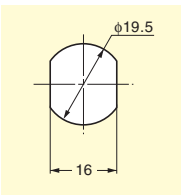
Without ring (Made to order)

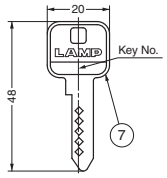


■Remarks

- Not attract strong magnet.
- Master Key is not available.

■Cut Out Dimensions





No.	Part Name	Material	Finish
①	Body	Brass	Chrome
②	Ring	NO990R-B : Brass NO990VC-B : Zinc Alloy (ZDC)	Chrome
③	Cam	Steel (SPCC)	Yellow Zinc Chromate
④	Nut M19×1	Zinc Alloy (ZDC)	Clear Zinc Chromate
⑤	Washer for M7	Steel	Yellow Zinc Chromate
⑥	Nut M7×0.75	Steel	Yellow Zinc Chromate
⑦	Key	Brass/Ferrite	Nickel

Item Code	Item Name	Key Type	Drill-Protection Cover	Door Thickness	Weight	Box	Carton
150-013-020	NO990R-B	Key Different	Without	0.8～8	103 g	25 pcs	100 pcs
150-013-019	NO990VC-B	Key Different	With	0.8～8	109 g	25 pcs	100 pcs

CAM LOCK WITH HOLE SHUTTER

920BS



■Features

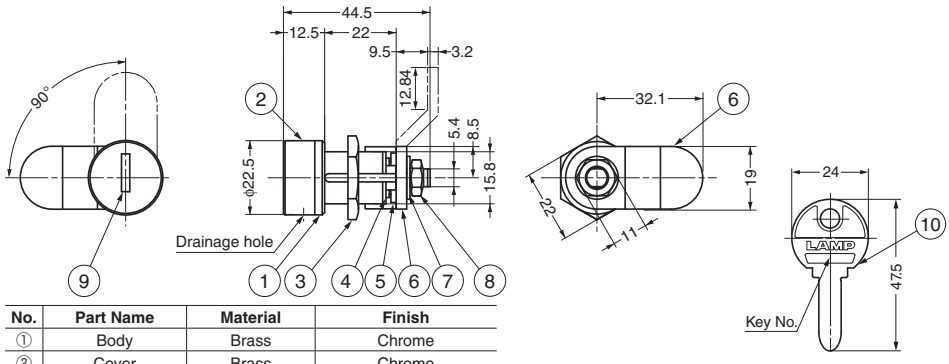
- Cylinder lock with key hole shutter.
- Reversible key can be removed when locked (90˚ rotation).
- 3,200 key changes available.
- Master Key system available at surcharge. (Max. 120 key changes/Master Key.)
- Cam can be changed to straight type at surcharge.

■Application Example

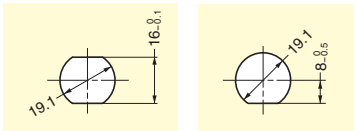
Mailbox

■Remarks

Place drainage hole in downward.



■Cut Out Dimensions



Standard type　Master Key system type

No.	Part Name	Material	Finish
①	Body	Brass	Chrome
②	Cover	Brass	Chrome
③	M19 Hex Nut	Steel (SS)	Yellow Zinc Chromate
④	Ring	Stainless Steel	—
⑤	Revolving Part	Steel (SPCC)	Yellow Zinc Chromate
⑥	Cam	Steel (SPCC)	Yellow Zinc Chromate
⑦	Washer	Steel	Yellow Zinc Chromate
⑧	M7 Hex Nut	Steel (SS)	Yellow Zinc Chromate
⑨	Shutter	Stainless Steel	—
⑩	Key	Brass	Nickel

Item Code	Item Name	Key Type	Door Thickness	Weight	Box	Carton
150-025-144	920BS-B	Key Different	0.8～12	97.4 g	12 pcs	60 pcs
150-001-237	920BS-D	Key Alike	0.8～12	97.4 g	12 pcs	60 pcs

Please contact us for this item with Master Key system.

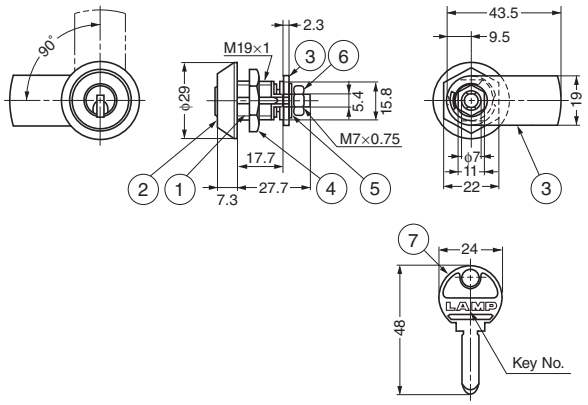
CAM LOCK Million Lock Series

900



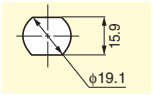
■Features

- Suitable for vending machine, ATM and coin locker.
- Reversible key can be removed when locked (90˚ rotation).
- 1 million key changes available.
- Master Key system available at surcharge.
  (Max. 2,520 key changes/Master Key.)
- Other shapes of cam can be made to order.
- Keys can be shared with Million Lock Series.

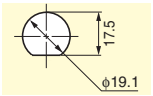


■Cut Out Dimensions

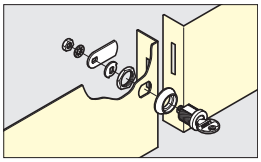
(Standard type)



(Master Key system type)



■Installation



Item Code	Item Name	Key Type	Door Thickness	Weight	Box	Carton
150-060-247	900-B	Key Different	0.8～8	120 g	12 pcs	60 pcs
150-001-080	900-D	Key Alike	0.8～8	120 g	12 pcs	60 pcs

Please contact us for this item with Master Key system.

No.	Part Name	Material	Finish
①	Body	Brass	Chrome
②	Ring	Brass	Chrome
③	Cam	Steel	Yellow Zinc Chromate
④	Hex Nut	Steel	Yellow Zinc Chromate
⑤	Washer	Steel	Nickel
⑥	Hex Nut	Steel	Yellow Zinc Chromate
⑦	Key	Brass	Nickel

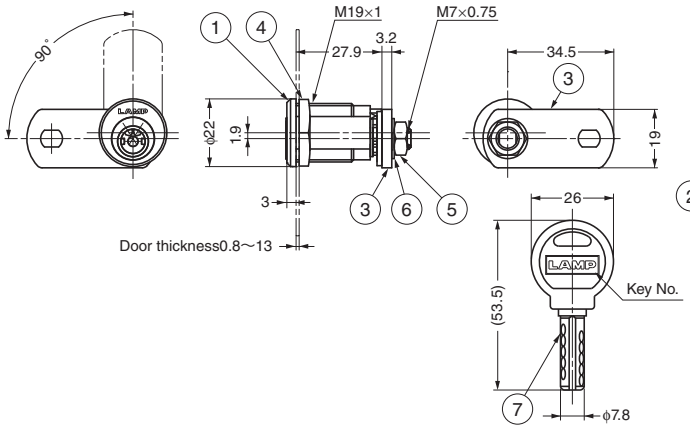
SECURITY CAM LOCK

DCY-34

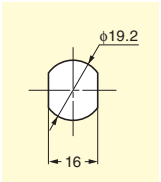


■Features

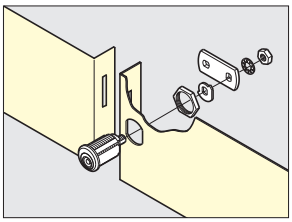
- Specially designed key provides security.
- Durability with thick cam.
- Reversible key can be removed when locked (90˚ rotation).
- Cam direction changeable.
- 2,000 key changes available.
- Master Key system available at surcharge.
  (Max. 866 key changes/Master Key.)



■Cut Out Dimensions



■Installation



Item Code	Item Name	Key Type	Door Thickness	Weight
150-014-159	DCY-34-B	Key Different	0.8～13	101 g
150-014-158	DCY-34-D	Key Alike	0.8～13	101 g

Please contact us for this item with Master Key system.

No.	Part Name	Material	Finish/Colour
①	Body	Brass	Chrome
②	90˚ Cam	Steel (SPCC)	Yellow Zinc Chromate
③	Cam	Steel (SPCC)	Yellow Zinc Chromate
④	M19 Hex Nut	Steel (SS)	Yellow Zinc Chromate
⑤	M7 Hex Nut	Steel (SWCH)	Yellow Zinc Chromate
⑥	Inner Counter Plate	Steel (S65C)	Yellow Zinc Chromate
⑦	Key	Brass/ABS	Nickel/Black

STAINLESS STEEL CAM LOCK

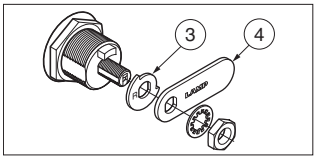
STAINLESS 303 STEEL STAINLESS 304 STEEL **3800S**



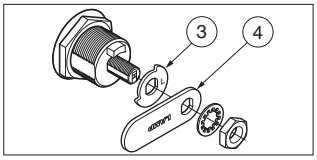
■Features

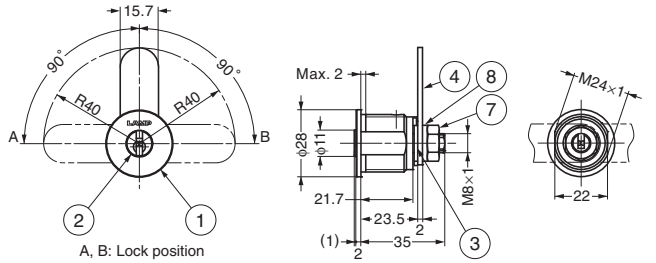
- ●High corrosion with stainless steel.
- ●Non-handed.
- ●Durability with thick cam.
- ●Reversible key can be removed when locked (90˚ rotation).
- ●Key works as a knob in unlocked position.
- ●300 key changes available.
- ●Master Key system (300 key changes) available at surcharge. (1 Master Key only.)
- ●Keys can be shared with 3810S (P.319).

■Installation for Right-handed Door



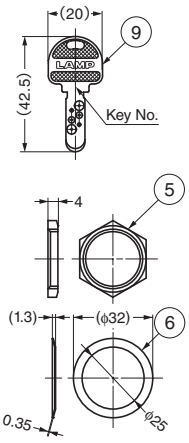
■Installation for Left-handed Door



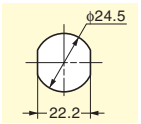


Item Code	Item Name	Key Type	Door Thickness	Weight	Box	Carton
150-012-921	3800S-B	Key Different	2～10	120 g	12 pcs	60 pcs
150-012-920	3800S-D	Key Alike	2～10	120 g	12 pcs	60 pcs

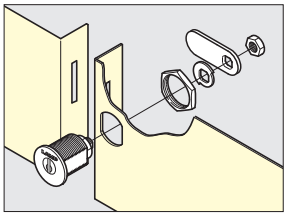
Please contact us for this item with master function.



■Cut Out Dimensions



■Installation



No.	Part Name	Material	Finish
①	Cylinder (Outer)	Stainless Steel (SUS303)	Satin
②	Cylinder (Inner)	Stainless Steel (SUS303)	2B Finish
③	Cylinder Cam	Stainless Steel (SUS304)	2B Finish
④	Cam	Stainless Steel (SUS304)	Plain
⑤	Nut (for Installing the Body)	Stainless Steel (SUS303)	Plain
⑥	Washer (for Body)	Stainless Steel (SUS304)	Plain
⑦	Nut (for Installing the Lock Plate)	Stainless Steel	Plain
⑧	Washer	Stainless Steel (SUS304)	Plain
⑨	Key	Nickel	Plain
—	Key Ring	Stainless Steel (SUS304)	Plain

※Cylinder pin is made of brass.

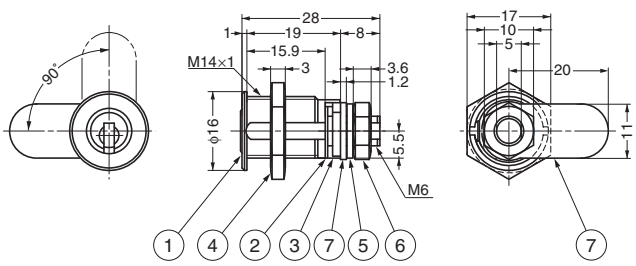
CAM LOCK

910MS

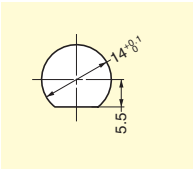


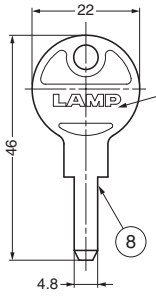
■Features

- ●Small cylinder lock with dimple key.
- ●Reversible key can be removed when locked (90˚ rotation).
- ●47,000 key changes available.
- ●Master Key system available at surcharge. (Max. 1,000 key changes/Master Key.)



■Cut Out Dimensions





No.	Part Name	Material	Finish
①	Body	Brass	Chrome
②	Ring	Steel	Phosphated Treatment
③	Cam	Steel (SPCC)	Yellow Zinc Chromate
④	M14 Hex Nut	Steel (S20C)	Yellow Zinc Chromate
⑤	Washer	Steel	Yellow Zinc Chromate
⑥	M6 Hex Nut	Steel (S20C)	Yellow Zinc Chromate
⑦	Cam	Steel (SPCC)	Yellow Zinc Chromate
⑧	Key	Brass	Nickel

Item Code	Item Name	Key Type	Door Thickness	Weight	Box	Carton
150-025-141	910MS-B	Key Different	0.8～1.2	25.5 g	12 pcs	60 pcs
150-001-238	910MS-D	Key Alike	0.8～1.2	25.5 g	12 pcs	60 pcs

Please contact us for this item with Master Key system.

CAM LOCK

NAL

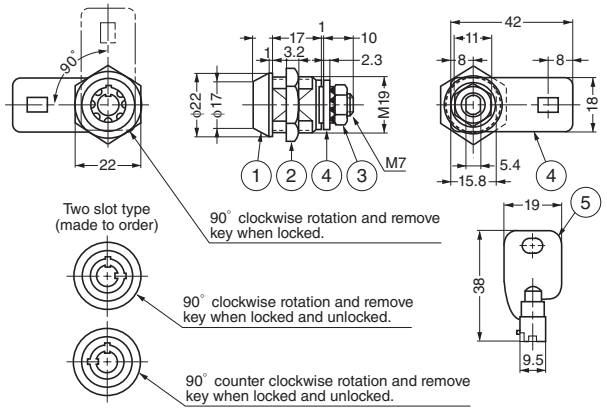


■Features

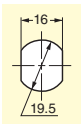
- 90 degree cam rotation.
- Key is removable in locked position only.
- 5,000 key changes available.

■Remarks

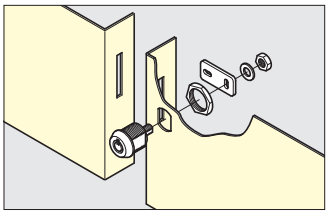
Spring works key to pull back. Push the key tightly and turn to lock and unlocked.



■Cut Out Dimensions



■Installation



No.	Part Name	Material	Finish
①	Body	Brass	Chrome
②	Hex Nut	Zinc Alloy (ZDC)	Yellow Zinc Chromate
③	Hex Nut	Steel (SWRCH)	Yellow Zinc Chromate
④	Cam	Steel (SPCC)	Yellow Zinc Chromate
⑤	Key	Steel (SPCC)	Nickel

Item Code	Item Name	Key Type	Cylinder Diameter	Door Thickness	Weight	Box
150-061-067	NAL-B	Key Different	φ19 (width: 15.8)	Max. 10	55 g	100 pcs
150-061-068	NAL-D	Key Alike	φ19 (width: 15.8)	Max. 10	55 g	100 pcs

MINI CAM LOCK

NAL-S



■Features

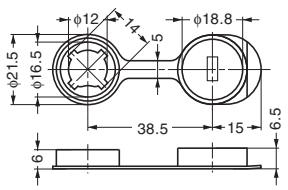
- NAL-S-1: Key is removable in locked position only. (Avoids to forget to lock.)
  NAL-S-2: Key is removable in both locked and unlocked positions.
- Cam is reversible.
- Keyed alike only. Key different available as special order.

■Optional Parts

Cap (NAL-S CAP)

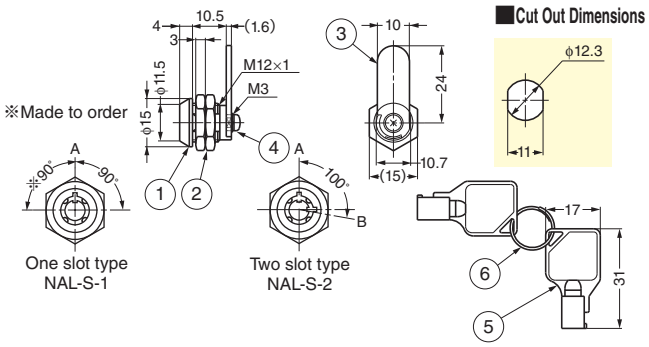
No.	Part Name	Material	Finish
①	Body	Zinc Alloy	Chrome
②	Hex Nut	Steel	Clear Zinc Chromate
③	Cam	Steel	Chrome
④	Screw for Installing Lock Plate	Steel	Clear Zinc Chromate
⑤	Key	Steel	Chrome
⑥	Key Ring	Stainless Steel (SUS304)	—





Item Code	Item Name	Material	Colour	Weight	Box	Carton
150-039-050	NAL-S CAP	Polyethylene (PE)	Black	1.5 g	500 pcs	2,000 pcs

■Cut Out Dimensions



Item Code	Item Name	Slots	Key Type	Door Thickness	Weight	Box	Carton
150-060-667	NAL-S-1-D	One	Key Alike	Max. 2	25 g	100 pcs	500 pcs
150-060-666	NAL-S-2-D	Two	Key Alike	Max. 2	25 g	100 pcs	500 pcs

Please confirm the item in case of changing the specification.

CABINET LOCK WITH DIAL

DIT-19



Search key DIT-SK

■Features

- Turn the dial to lock/unlock.
- One-touch installation.
- Able to switch to Changing Mode or Fixing Mode:
  Changing Mode - Changing the key number according to users.
  Fixing Mode - Applied the same number as registered.
- Possible to search the number to unlock with Search Key (sold separately).
- Without-latch type also available as special order.
- Possible to engrave any number on body above the dial.

■Application

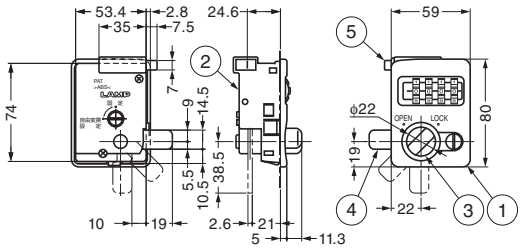
Lockers in public space

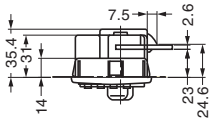
■Remarks

- Use bracket when applying to wood board (available at surcharge).
- First dial number is "0000".
- Adjust number along the centre line to avoid malfunction.

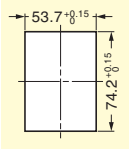
■Optional Parts

Search Key DIT-SK



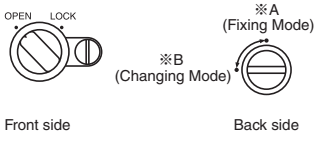


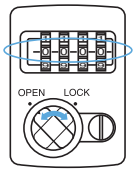
■Cut Out Dimensions



No.	Part Name	Material	Finish/Colour
①	Body	ABS	White
②	Case	ABS	White
③	Knob	ABS	White
④	Cam	Steel	Yellow Zinc Chromate
⑤	Latch	Polyacetal (POM)	White

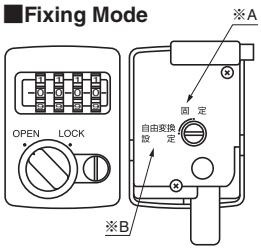
■Changing Mode

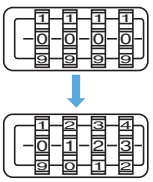


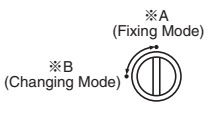


1. Turn the knob to "OPEN" on front side.
   Turn the slot to ※B on back side.
2. Set new number and turn the knob to "LOCK" on front side.

■Fixing Mode

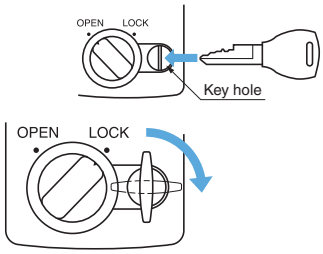


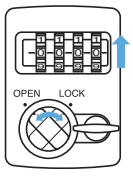


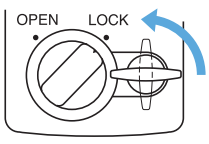


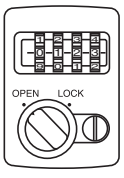
1. Turn the knob to "OPEN" on front side.
   Turn the slot to ※B on back side.
2. Set new number.
   ※Before setting new number, please open the door.
3. Turn the slot to ※A on back side.

■How to Search Dial Number









1. Insert Search Key and turn clockwise.
2. Turn each dials till click (the number clicked is your dial number).
3. Turn Search Key counter-clockwise and remove.
4. Turn the knob to "OPEN" to unlock.

■Body

Item Code	Item Name	Door Thickness	Weight	Carton
150-014-156	DIT-19	0.8	162 g	100 pcs

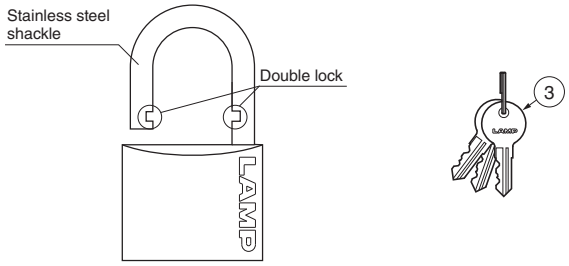
■Search Key (Sold Separately)

Item Code	Item Name	Weight
150-014-157	DIT-SK	11 g

HIGH SECURITY PADLOCK

PWL



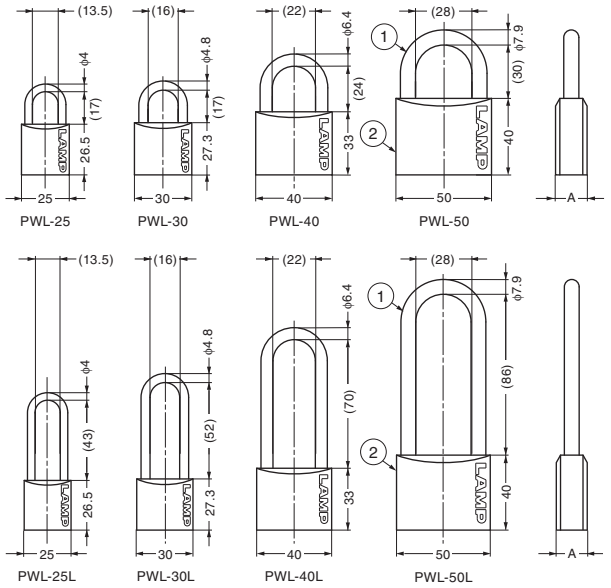


■Features

- Provides high security with stainless steel shackle and double lock.
- 110 key changes and Master Key system are available.

■Remarks

Cannot specify key number when ordering.



Item Code	Item Name	A	Weight	Box	Carton
150-013-023	PWL-25	11.5	54 g	10 pcs	100 pcs
150-013-024	PWL-30	12.8	78 g	10 pcs	100 pcs
150-013-025	PWL-40	13.8	143 g	10 pcs	100 pcs
150-013-026	PWL-50	16.5	254 g	5 pcs	50 pcs
150-013-027	PWL-25L	11.5	63 g	10 pcs	100 pcs
150-013-028	PWL-30L	12.8	91 g	10 pcs	100 pcs
150-013-029	PWL-40L	13.8	168 g	10 pcs	100 pcs
150-013-030	PWL-50L	16.5	297 g	5 pcs	50 pcs

No.	Part Name	Material	Finish
①	Shackle	Stainless Steel (SUS304)	—
②	Body	Brass	Chrome
③	Key	Brass	Nickel

BOX LATCH WITH LOCK

BL-70Y

STAINLESS



■Features

- Automatically latches the lid when closed.
- Push button to release.
- 5 key changes available.

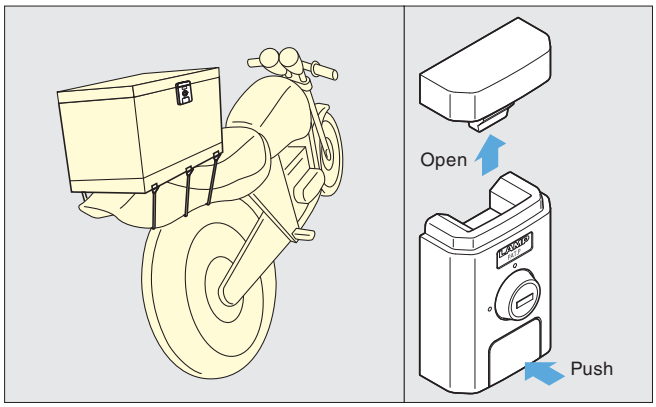
■Application

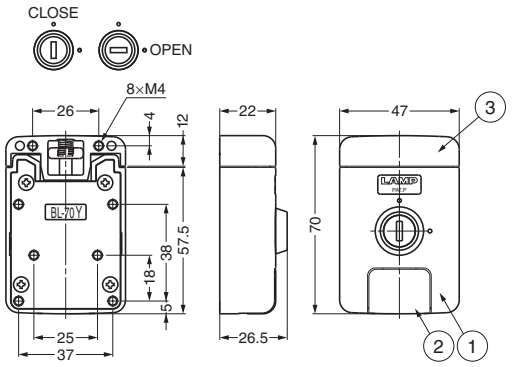
Storage box, especially for cars and transport.

■Parts Included

- Countersunk binding head screw M4 × 12 (SUS)
- Spring lock washer (SUS)

■ Installation





Item Code	Item Name	Key Type	Weight	Box
150-001-076	BL-70Y-B	Key Different	220 g	5 pcs
150-001-077	BL-70Y-D	Key Alike	220 g	5 pcs

No.	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy (ZDC)	Paint/Silver
②	Button	Polyacetal (POM)	Grey
③	Strike	Zinc Alloy (ZDC)	Paint/Silver

SECURITY LOCK FOR LAPTOP


WL-N1800 (Below)


WL-P1800-B (P.357)


WL-S1800 (P.356)


WL-S2200-B (P.356)

■Features

- Wire lock suitable for security of laptop and TV with D terminal.
- 4 types available: WL-N1800, WL-S1800, WL-S2200-B, WL-P1800-B.
- WL-S2200-B locks 2 laptops at a time.
- High security against picking by applying cylinder locks.
- WL-N1800 and WL-P1800-B can be installed to thin laptop.

SECURITY LOCK FOR LAPTOP WL-N1800



■Features

- Wire lock suitable for security of laptop and TV with D terminal (Optional parts PC20K is needed.).
- Off-set hook for thin laptop.
- Wire length: 1,800 mm
- 10,000 key changes available.
- Key can be removed when locked.
- Wire dia. Φ4 mm.
- Master Key system available for WL-N1800-B (Max. 200 key changes/Master Key).

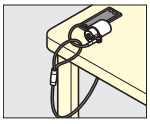
■Remarks

Please make sure security hole as indicated (Below).

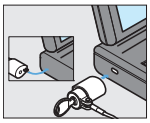
■Optional Parts

- Master Key (made to order)
- Adapter PC20K (P.357)

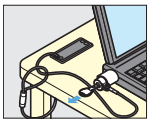
■Installation



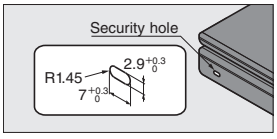
1. Put the wire through a hole on desk and loop.



2. Insert the cylinder into the security hole.

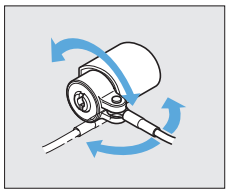


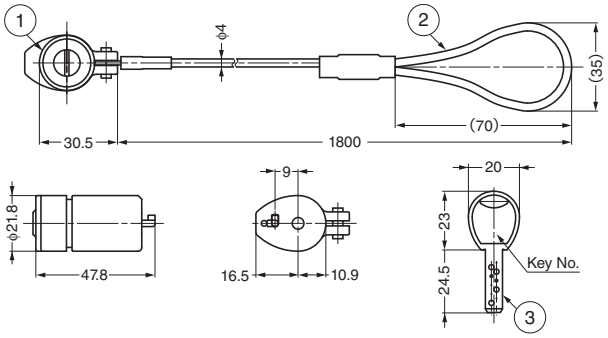
3. Turn the key counter clockwise to lock.



Please make sure security hole is as indicated.

■Movement





No.	Part Name	Material	Finish
①	Lock Body	Zinc Alloy (ZDC)	Satin Nickel
②	Wire	Steel	PVC Coating
③	Key	Brass	Nickel

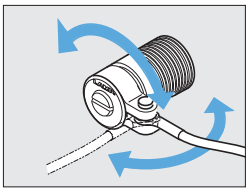
Item Code	Item Name	Key Type	Master Key System	Weight	Box	Carton
150-001-081	WL-N1800-B	Key Different	With	194.2 g	10 pcs	100 pcs
150-001-148	WL-N1800-D	Key Alike	Without	194.2 g	10 pcs	100 pcs

SECURITY LOCK FOR LAPTOP WL-S1800





■Movement



■Features

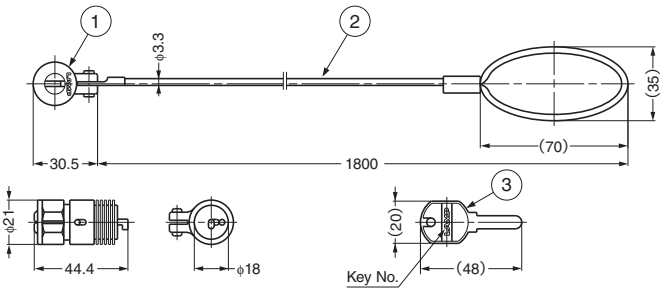
- Wire lock suitable for security of laptop and TV with D terminal (Optional parts PC20K is needed.).
- Wire length: 1,800 mm
- 250 key changes available.
  Master Key system available for WL-S1800-B (Max. 250 key changes /Master Key).
- Key can be removed when locked.
- Wire dia. Φ3.3 mm.

■Remarks

Please make sure security hole is as indicated.

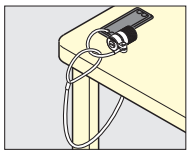
■Optional Parts

- Master Key (made to order)
- Adapter PC20K (P.357)

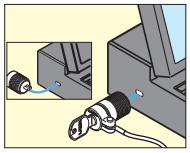


No.	Part Name	Material	Finish
①	Lock Body	Zinc Alloy (ZDC)	Satin Nickel
②	Wire	Steel	PVC Coating
③	Key	Brass	Nickel

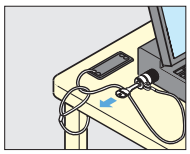
■Installation



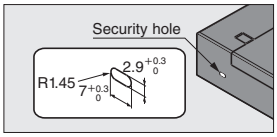
1. Put the wire through a hole on desk and loop.



2. Insert the cylinder into the security hole.



3. Turn the key counter clockwise to lock.



Please make sure security hole as indicated.

■Master Key (Sold Separately)

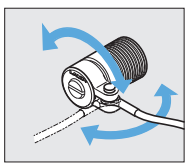
Item Code	Item Name
150-001-082	WL-S1800MK1

Item Code	Item Name	Key Type	Master Key System	Weight	Box	Carton
150-001-127	WL-S1800-B	Key Different	With	165 g	5 pcs	50 pcs
150-060-675	WL-S1800-D	Key Alike	Without	165 g	5 pcs	50 pcs

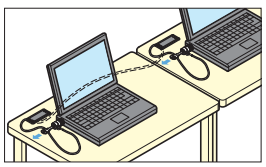
SECURITY LOCK FOR LAPTOP WL-S2200-B



■Movement



■Installation



■Features

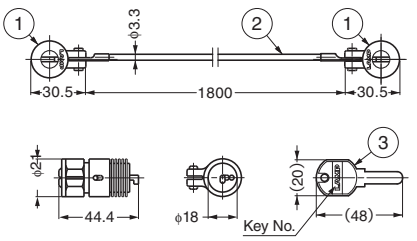
- Wire lock suitable for security of laptop and TV with D terminal (Optional parts PC20K is needed.).
- Wire length: 1,800 mm.
- With Master Key system (250 key changes/Master Key).
- Key can be removed when locked.
- Wire dia. Φ3.3 mm.

■Remarks

- Both sides of lock has the same key number.
- Please confirm the security hole as indicated.

■Optional Parts

- Master Key (made to order)
- Adapter PC20K (P.357)



Item Code	Item Name	Key Type	Master Key System	Weight	Box	Carton
150-069-339	WL-S2200-B	Key Different	With	220 g	5 pcs	50 pcs

■Master Key (Sold Separately)

Item Code	Item Name
150-001-082	WL-S1800MK1

No.	Part Name	Material	Finish/Colour
①	Lock Body	Zinc Alloy (ZDC)	Satin Nickel
②	Wire	Steel	PVC Coating
③	Key	Brass	Nickel

SECURITY LOCK FOR LAPTOP

WL-P1800-B



■Features

- Wire lock suitable for security of laptop and TV with D terminal (Optional parts PC20K is needed.).
- Slim type for thin laptop.
- Wire length: 1,800 mm
- 250 key changes available.
- Applying cam lock.
- Key can be removed when locked.
- Wire dia. Φ4 mm.

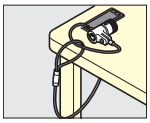
■Remarks

The spring works key to pull back. Push the key tightly and turn to lock and unlocked.

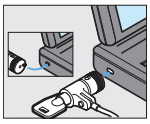
■Optional Parts

Adapter PC20K (P.357)

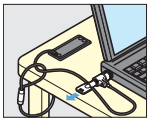
■Installation



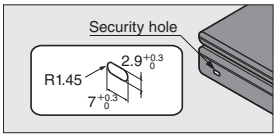
1. Put the wire through a hole on the desk and loop.



2. Insert the cylinder into the security hole.

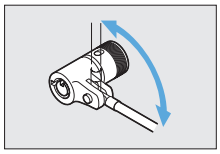


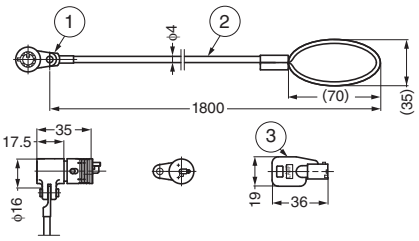
3. Turn the key clockwise to lock.



Please make sure security hole as indicated.

■Movement





No.	Part Name	Material	Finish
①	Lock Body	Zinc Alloy (ZDC)	Satin Nickel
②	Wire	Steel	PVC Coating
③	Key	Brass	Nickel

Item Code	Item Name	Key Type	Weight	Box	Carton
150-060-063	WL-P1800-B	Key Different	134 g	10 pcs	100 pcs

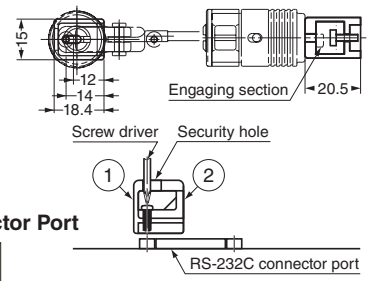
ADAPTER

STEEL

PC20K



■How to Install



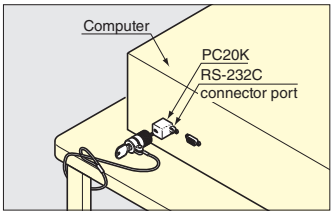
■Features

- Adapter to connect with laptop and terminals.
- Terminal can be connected with : RS-232C, D Terminal, RGB Terminal

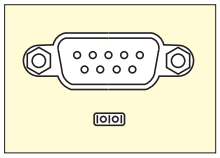
■Parts Included

Pan head screw No.4-40UNC×8

■Installation



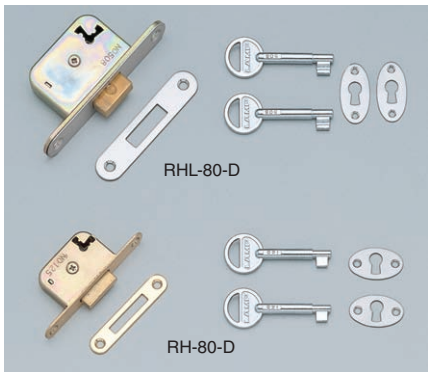
■"RS-233C" Connector Port



No.	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy (ZDC)	Nickel
②	Cover	ABS	Black

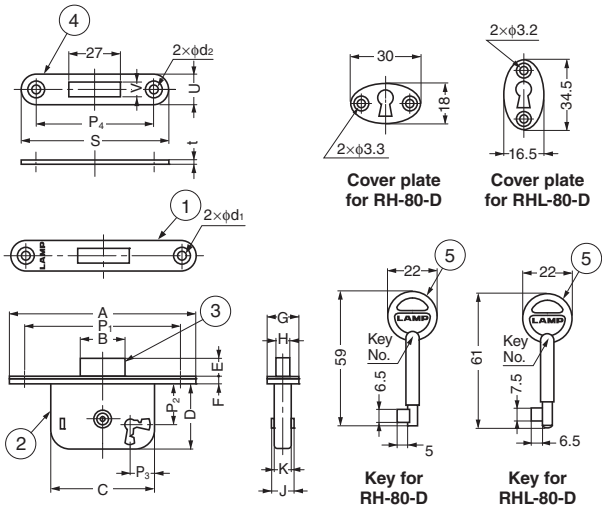
Item Code	Item Name	Material	Finish	Weight	Box	Carton
150-060-008	PC20K	Zinc Alloy (ZDC)	Nickel	19 g	40 pcs	400 pcs

DEAD BOLT LOCK Rounded Edge RH-80-D, RHL-80-D

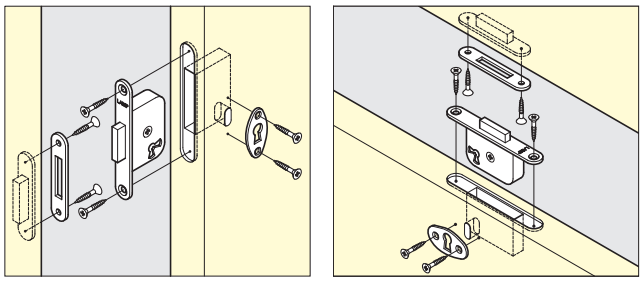


■Features

- Front plate material: RH-80 - SUS304, RH-80-D - brass.
- 3 key changes available.
- Able to lock from both sides of the door.
- Direction of the key hole on cover plate can be changed at surcharge.



■Installation

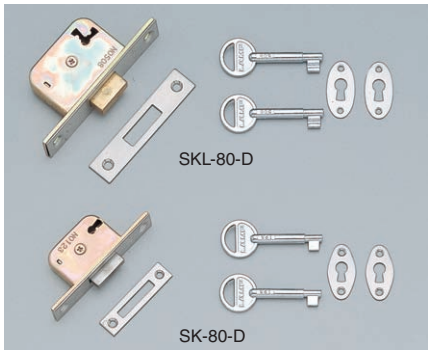


Item Code	Item Name	Key Type	Weight	Box	Carton
150-001-129	RH -80-D	Key Alike	41 g	12 pcs	204 pcs
150-001-131	RHL-80-D	Key Alike	92 g	12 pcs	120 pcs

No.	Part Name	Material	Finish
①	Front Plate	Stainless Steel (SUS304) (RHL-80-D)	Satin
①	Front Plate	Brass (RH-80-D)	Satin
②	Body	Steel	Yellow Zinc Chromate
③	Dead Bolt	Brass	—
④	Strike	Stainless Steel (SUS304) (RHL-80-D)	Satin
④	Strike	Steel (RH-80-D)	Brass
⑤	Key	Zinc Alloy (ZDC)	Chrome

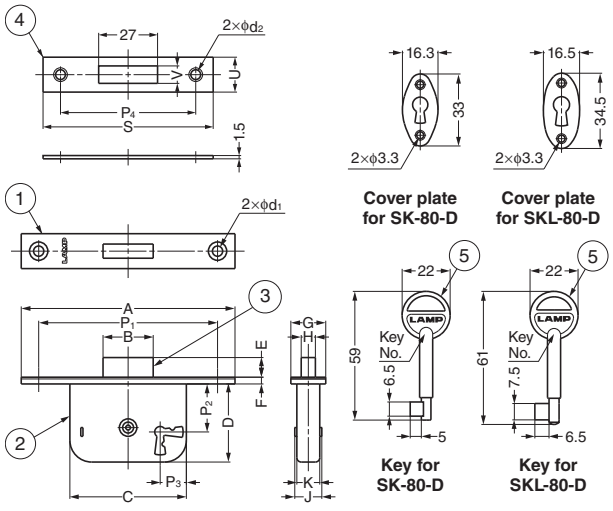
	A	B	C	D	E	F	G	H	J	K	P_1	P_2	P_3	d_1	S	t	U	V	P_4	d_2
RH -80-D	78.3	22	40.4	26.5	6	1.5	11	4	9.5	9	67	16.5	8.5	3.5	57	1.6	11	5	46	3.5
RHL-80-D	98	23	53.4	35	9	3.1	16	6.5	11.5	10.5	82	22	12.5	4.7	78	1.5	16	8	62	4.5

DEAD BOLT LOCK Squared Edge SK-80-D, SKL-80-D

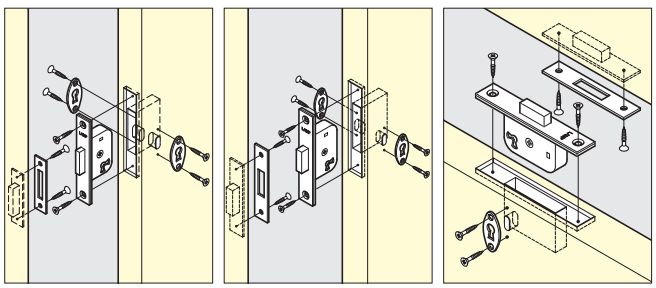


■Features

- Front plate material - SUS304
- 3 key changes available.
- Able to lock from both sides of the door.



■Installation



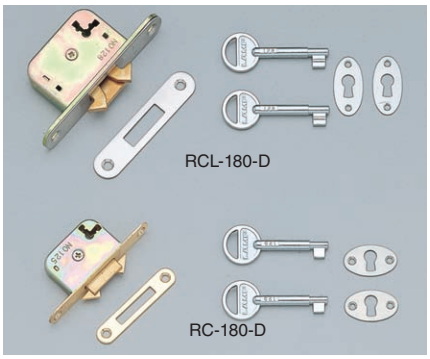
Item Code	Item Name	Key Type	Weight	Box	Carton
150-001-133	SK -80-D	Key Alike	47 g	12 pcs	204 pcs
150-001-135	SKL-80-D	Key Alike	89 g	12 pcs	120 pcs

No.	Part Name	Material	Finish
①	Front Plate	Stainless Steel (SUS304)	Satin
②	Body	Steel	Yellow Zinc Chromate
③	Dead Bolt	Stainless Steel (SUS304) (SK-80-D)	—
③	Dead Bolt	Brass (SKL-80-D)	—
④	Strike	Stainless Steel (SUS304)	Satin
⑤	Key	Zinc Alloy (ZDC)	Chrome

	A	B	C	D	E	F	G	H	J	K	P_1	P_2	P_3	d_1	S	U	V	P_4	d_2
SK -80-D	80	22	40.4	26.5	6	2.8	14	4	9.5	9	66	16.5	8.5	3.5	50	12	5	40	3.5
SKL-80-D	98	23	53.4	35	8.5	3	16	6.5	11.5	10.5	82	21	12.5	4.7	78	16	8	62	4.5

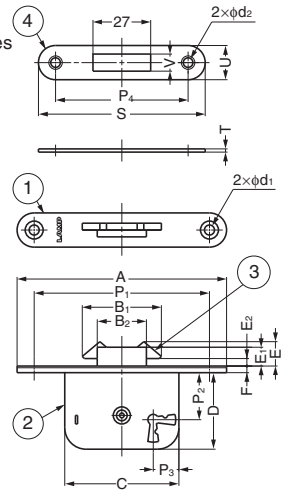
DEAD BOLT LOCK Rounded Edge

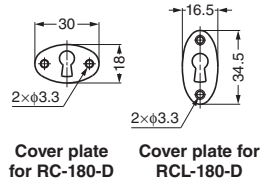
RC-180-D, RCL-180-D



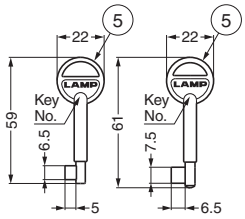
■Features

- Front plate material: RC-180-D - SUS304, RC-180-D - brass.
- Ideal for sliding door.
- 3 key changes available.
- Able to lock from both sides of the door.
- Direction of the key hole on cover plate can be changed at surcharge.



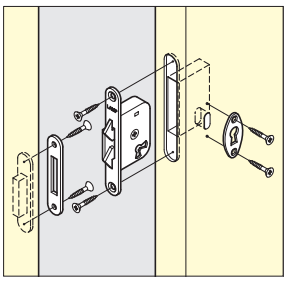


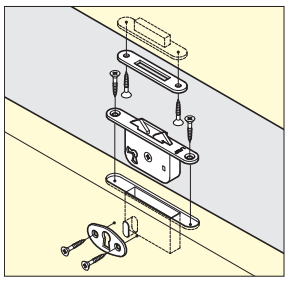
Cover plate for RC-180-D | Cover plate for RCL-180-D



Key for RC-80-D | Key for RCL-80-D

■Installation





Item Code	Item Name	Key Type	Weight	Box	Carton
150-001-137	RC -180-D	Key Alike	42 g	12 pcs	204 pcs
150-001-139	RCL-180-D	Key Alike	93 g	12 pcs	120 pcs

No.	Part Name	Material	Finish
①	Front Plate	Stainless Steel (SUS304) (RCL-180-D)	Satin
①	Front Plate	Brass (RC-180-D)	Satin
②	Body	Steel	Yellow Zinc Chromate
③	Dead Bolt	Brass	–
④	Strike	Stainless Steel (SUS304) (RCL-180-D)	Satin
④	Strike	Steel (RC-180-D)	Brass
⑤	Key	Zinc Alloy (ZDC)	Chrome

	A	B₁	B₂	C	D	E	E₁	E₂	F	G	H₁	H₂	J	K	P₁	P₂	P₃	d₁	S	T	U	V	P₄	d₂
RC -180-D	78	35	22	40.4	26.5	9	6	2	1.5	11	2	2	9.5	9	67	16.5	8.5	3.5	57	1.6	11	5	46	3.5
RCL-180-D	98	37	23	53.4	35.8	11.4	8.8	3.5	3.1	16	3.2	3.2	11.2	10.5	82	22	12	4.7	78	1.5	16	8	62	4.5

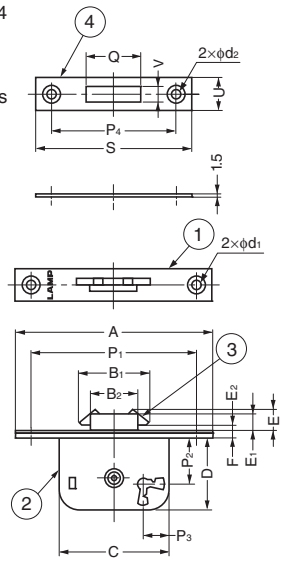
DEAD BOLT LOCK Squared Edge

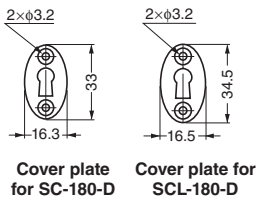
SC-180-D, SCL-180-D



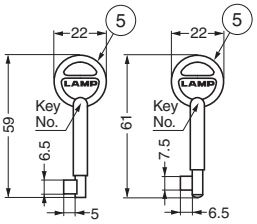
■Features

- Front plate material - SUS304
- Ideal for sliding door.
- 3 key changes available.
- Able to lock from both sides of the door.
- Direction of the key hole on cover plate can be changed at surcharge.



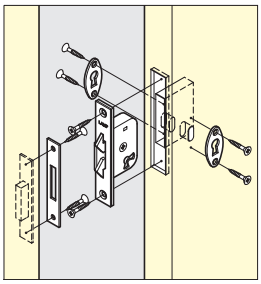


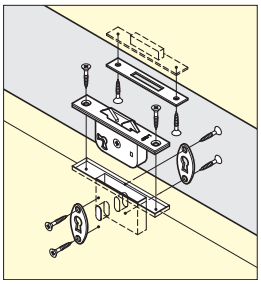
Cover plate for SC-180-D | Cover plate for SCL-180-D



Key for SC-180-D | Key for SCL-180-D

■Installation





Item Code	Item Name	Key Type	Weight	Box	Carton
150-001-141	SC -180-D	Key Alike	48 g	12 pcs	204 pcs
150-001-143	SCL-180-D	Key Alike	95 g	12 pcs	120 pcs

No.	Part Name	Material	Finish
①	Front Plate	Stainless Steel (SUS304)	Satin
②	Body	Steel	Yellow Zinc Chromate
③	Dead Bolt	Brass (SCL-180-D)	–
③	Dead Bolt	Stainless Steel (SUS304) (SC-180-D)	–
④	Strike	Stainless Steel (SUS304)	Satin
⑤	Key	Zinc Alloy (ZDC)	Chrome

	A	B₁	B₂	C	D	E	E₁	E₂	F	G	H₁	H₂	J	K	P₁	P₂	P₃	d₁	Q	S	U	V	P₄	d₂
SC -180-D	80	36.5	22	40.4	26.5	9	6.5	2	2.8	14	2	2	9.5	9	66	16.5	8.5	3.5	26.5	67	11	5	56	3.5
SCL-180-D	98	37	23	53.4	35	11.4	8.8	3.5	3.1	16	3.2	3.2	11.2	10.5	82	21	12.5	4.7	27	78	16	8	62	4.5

SOLUTIONS FOR SLIDING DOOR APPLICATIONS

■Lock

Surface mount

7810K (P.314)



Recessed mount with handle

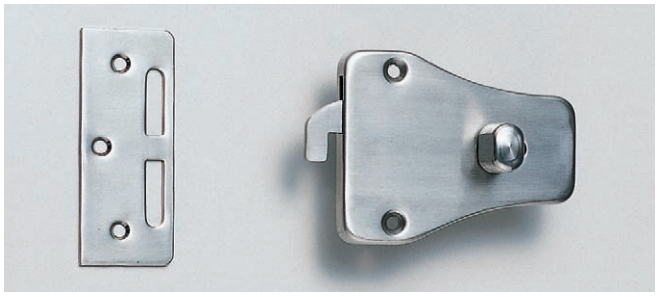
HC-3051-CLD (P.300～ 301)



■Latch

Surface mount

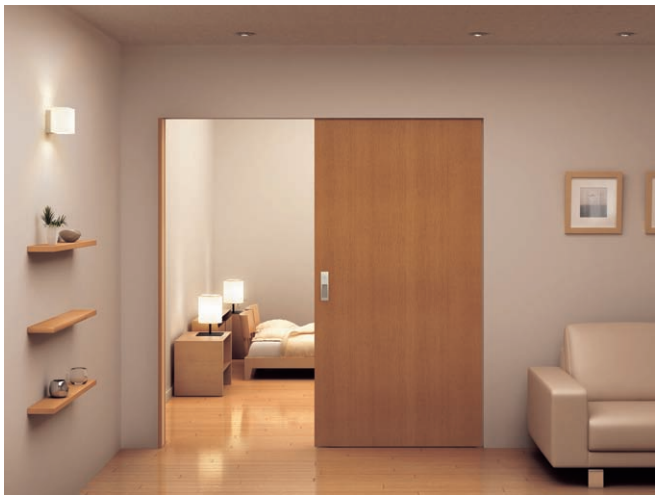
HC-70 (P.296)



HHC-85 (P.297)







Recessed mount

HC-30R (P.293)



SC, SCU (P.298～ 299)





Recessed mount with handle

HC-3051-PRV・IND・DSL (P.300～ 301)





HINGES

SUGATSUNE

BUTT HINGES

Picture	Item Name	Door Weight (kg)/pair	Page
	TTS-100 BRASS	—	396
	TTS-800 BRASS	—	396
	27900, 27800 STAINLESS 316 STEEL	4	398
	28100 STAINLESS 316 STEEL	4	398
	28500, 28000 STAINLESS 316 STEEL	4	398
	28300, 28400 STAINLESS 316 STEEL	4	399
	HG-BF1 STAINLESS 304 STEEL	—	399
	KHA STAINLESS 304 STEEL	3～15	400
	LSB STAINLESS 304 STEEL	6～30	400
	3535 BRASS	20	483
	3535SS, 4040SS STAINLESS 304 STEEL	25～40	482
	3535WSS, 4040WSS STAINLESS 304 STEEL	25～30	482
	4545BSS STAINLESS 304 STEEL	45	482
	4040B BRASS	50	483
	LSF STAINLESS 316 STEEL	35～85	399

SPRING HINGES

Picture	Item Name	Load Capacity (kgf)	Page
	HG-SH STAINLESS 304 STEEL	Door Weight (kg) 1～6/pair	402
	HG-SHL STAINLESS 304 STEEL	—	402
	HG-BF3-2 STAINLESS 304 STEEL	—	403
	HG-VH8	—	423
	DA STAINLESS 304 STEEL	—	485
	DAM	—	486
	PM120	20/2 pcs, 30/3 pcs	486
	SA STAINLESS 304 STEEL	20～40/2 pcs 30～60/3 pcs	484
	ST150-6314-05 STAINLESS 304 STEEL	40/2 pcs, 60/3 pcs	484

LIFT-OFF HINGES

Picture	Item Name	Door Weight (kg)/pair	Page
	TTS-200 BRASS	—	397
	NH-40 STAINLESS 304 STEEL	7	401
	KN STAINLESS 304 STEEL	7～15	401
	ZL-1701 STAINLESS 316 STEEL	40～50	480
	S-6173-2, S-6166-2 STAINLESS 304 STEEL	40	481
	S-6173-5, S-6166-6 STAINLESS 304 STEEL	50	481

ANGLE HINGES

Picture	Item Name	Door Weight (kg)/pair	Page
	AHS BRASS	2.6	408
	AHW BRASS	2.6	408
	AHA-24 BRASS	2.6	409
	AHB-18 BRASS	2.6	409

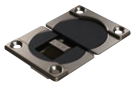
PIVOT HINGES

Picture	Item Name	Door Weight (kg)/pair	Page
	PH084N	2	460
	PV-30	2.6	460
	WP1, WP3 STAINLESS 430 STEEL	1.8	404
	PP-60 STAINLESS 430 STEEL	2.6	404
	PL-60 STAINLESS 430 STEEL	2.6	405
	PL-65 STAINLESS 430 STEEL	4	405
	PL-100 STAINLESS 304 STEEL	6	405
	PAS BRASS	2.6～4	406
	PAW BRASS	2.6～4	406
	PH BRASS	2.6～4	407
	TTS-902 BRASS	—	407
	PH-01	35	479

TABLE TOP HINGES / PIANO HINGES

Picture	Item Name	Door Weight (kg)/pair	Page
	MH-30 BRASS	4	413
	MH-40 BRASS	4	413
	MH-83 STAINLESS 304 STEEL	4	413
	MA-5 STAINLESS 304 STEEL	4	413
	LS, LSD, LB30, LB45 STAINLESS 430 STEEL STAINLESS 304 STEEL	—	414
	LHN STAINLESS 304 STEEL	—	415
	HG-MH	—	415

CONCEALED HINGES

Picture	Item Name		Door Weight (kg)/pair	Page
	J95		25/2 pcs, 40/3 pcs	369 ⟩ 371
	J95-P6T		–	368
	GH-J95FP-CR	FOR GLASS DOORS	–	372 ⟩ 373
	J95SC		–	373
	J95ZC		–	373
	100	STAINLESS 304 STEEL	–	374 ⟩ 376
	100 MOUNTING PLATE	STAINLESS 304 STEEL	–	377
	120		–	378 ⟩ 381
	170		–	382 ⟩ 384
	H160		–	385 ⟩ 388
	MOUNTING PLATE		–	389 ⟩ 392
	HG-YS65C	STAINLESS 304 STEEL	10	417
	2000RV-2		–	418
	2000-150		–	418
	2000-MIGNON		–	418
	T-90-200		–	419
	SDH-001		–	410
	SDH-P		–	411
	SDH-G	FOR GLASS DOORS	–	412
	RK-50	STAINLESS 304 STEEL	2.6	416

Picture	Item Name		Door Weight (kg)/pair	Page
	R		–	416
	HES3D-90		–	470
	HES3D-120		30/2 pcs, 40/3 pcs	471
	HES3D-160		45/2 pcs, 60/3 pcs	472
	HES3D-E190		100/2 pcs, 125/3 pcs	473
	120BKT		–	475
	E190BKT		–	475
	HES-3030PR		25/3 pcs	477
	HES-3038BK	BRASS	45/3 pcs	476
	HES-3030BR	BRASS	50/3 pcs	476
	I-66		30/2 pcs, 50/3 pcs	478

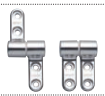
DAMPERS

Picture	Item Name	Door Weight (kg)	Page
	DI-4000, DL-4000, DC-4000	3～5/pc	394
	DSW	—	395
	DS	—	395
	DC	4～7 kg	457

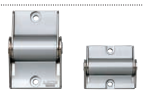
SPECIAL HINGES

Picture	Item Name	Door Weight (kg)/pair	Page
	HG-BH STAINLESS 304 STEEL	2.6	403
	STH-C64 STAINLESS 304 STEEL	2.8	417

DAMPER HINGES (Soft close)

Picture	Item Name	Torque Moment (kgf)/pair	Page
	HG-VH8	0.22～0.39/pc	423
	HG-JHS9 (SELF-OPENING)	0.28～0.44	421
	HG-JHM9	0.55～0.88	422
	HG-JHW16S	20.4～51/pc	428
	HG-JH14-50 STAINLESS 304 STEEL	30.6～51	428
	HG-JH	30.6～71.4	429
	HG-JHW, HG-JHWG	61.2～142.8	429
	HG-JHM14 (Mortise Mount)	5.09～20.39	424 ～ 425
	HG-JHM16 (Mortise Mount)	20.4～51	426
	HG-JHM20 (Mortise Mount)	61.2～81.6	427
	URD8-3	0.22～0.39/pc	423

TORQUE HINGES (Free stop)

Picture	Item Name	Torque Moment (kgf)/piece	Page
	HG-MF	0.8～2.5	431
	HG-VH8	1.53～3.57	423
	HG-TS	3.6～15.3	432
	HG-TU	3.6～7.1	432
	SK-T-ZA	15～30	431
	HG-TA	20.4～45.9	434
	HG-TB	7.1～45.9	434
	HG-IT	25.49～71.38	433
	HG-DTA (WITH DETENT)	4.08～8.16	435
	HG-DTB (WITH DETENT)	4.08～8.16	435
	HG-TA45H (WITH BY-PASS HOLE)	45.9	436
	HG-TC45H (WITH BY-PASS HOLE)	45.9	437
	HG-T30S15 (DUAL AXIS)	30.6 (Tilt), 15.3 (Swivel)	438
	HG-T70S30 (DUAL AXIS)	71.4 (Tilt), 30.6 (Swivel)	438
	HG-S (SWIVEL TORQUE)	7.1～102	439～441
	HG-ITJ4080 (TORQUE ADJUSTABLE)	41～82	443
	HG-TQA (ONE-WAY)	91.8/pair	445
	HG-TQJ100 (TORQUE ADJUSTABLE)	0～102	444
	HG-RNM30 (DETACHABLE)	30.6/pair	442

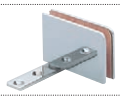
DETENT HINGES

Picture	Item Name	Door Weight (kg)/pair	Page
	HG-MPS2	1	446
	HG-YJ50	1.2	446
	HG-CSH63	—	447
	HG-YC105 STAINLESS 304 STEEL	—	447

GLASS DOOR HINGES

FOR GLASS DOORS

Picture	Item Name	Door Weight (kg)/pair	Page
	GH36-NCR	4	453
	GHC34-8	4	453
	GH34-0SS STAINLESS 304 STEEL	4	454
	GH34-8SS STAINLESS 304 STEEL	4	454
	GH34-0	4	455
	GH34-8	4	455
	GH34-0CR-K	4	456
	GH34-8CR-K	4	456
	GHC34-8CR-K	4	457
	GP-40 BRASS	4	459
	GPH	4	461
	XL-GH01-250 STAINLESS 304 STEEL	4.8	458
	XL-GH01-600 STAINLESS 304 STEEL	11	458
	XL-GH03-48-0 STAINLESS 304 STEEL	12	452

Picture	Item Name	Door Weight (kg)/pair	Page
	XL-GH03-48-8 STAINLESS 304 STEEL	12	452
	XL-GC04-CR	12	449
	XL-GC07-CR	12	449
	XL-GC05-CR	—	449
	GH-450 BRASS	15	450
	GH-450G BRASS	15	450
	GH-456C BRASS	15	451
	GH-456N BRASS	15	451
	GH-PSL40 BRASS	20	459
	XL-GH02-120 STAINLESS 304 STEEL	45	464
	XL-GH02F-120 STAINLESS 304 STEEL	45	464
	XL-GH05-120 STAINLESS 304 STEEL	45	465
	XL-GH05F-120 STAINLESS 304 STEEL	45	465
	ZL-1702 STAINLESS 316 STEEL	50	463
	ZL-1703 STAINLESS 316 STEEL	65	462

GRAVITY HINGES

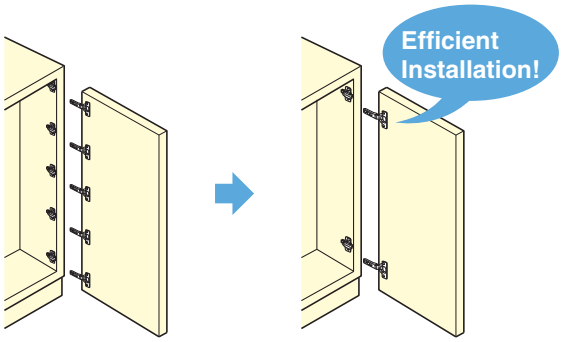
Picture	Item Name	Door Weight (kg)/pair	Page
	ET-100A STAINLESS 304 STEEL	—	466
	ET-100BF STAINLESS 304 STEEL	—	466
	ET-100CD STAINLESS 304 STEEL	—	467

HEAVY DUTY CONCEALED HINGE J95

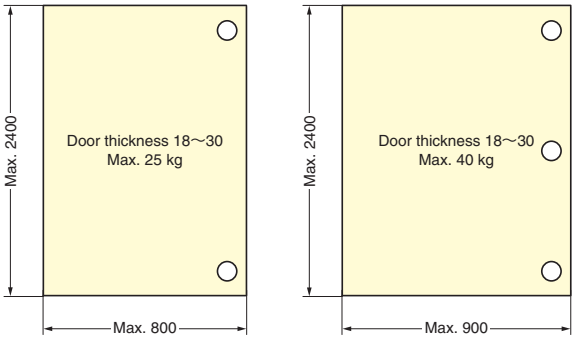
Max. Door Weight : 25 kg with 2 pcs, 40 kg with 3 pcs.

You can reduce the time spending over construction and installation since you don't need to install as many as regular concealed hinges.
It can be used for heavy door applications such as big cabinets in houses or stores.

Normal Concealed Hinges (5 pcs used) **J95 (2 pcs used)**

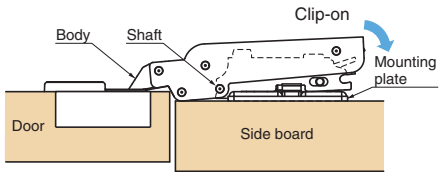


■The Number of Necessary Hinges with Door Dimensions

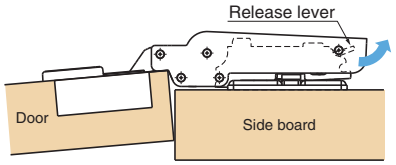


Simple Installation and Detachment by One-Touch

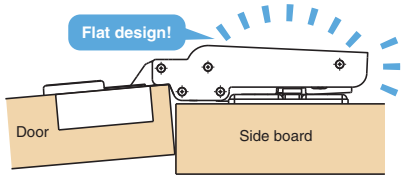
●How to Install



●How to Release

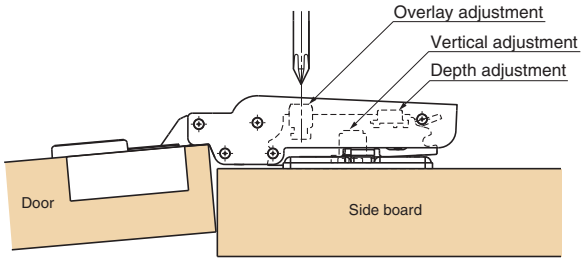


Flat Design

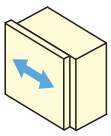


Easy and Fast Adjustment

Door can be adjusted by turning adjustment screws.

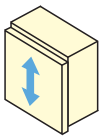


Overlay Adjustment (Horizontal Adjustment)



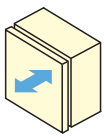
+ 0 mm, −4 mm

Vertical Adjustment



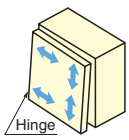
±3 mm

Depth Adjustment



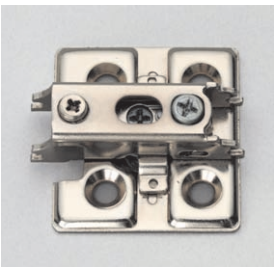
+ 1.5 mm, −2.5 mm

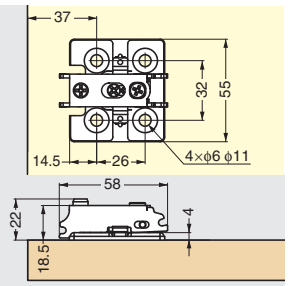
Tilting Adjustment



Tilting adjustment can be done by using these three ways of adjustments.

MOUNTING PLATE J95-P6T





■Features

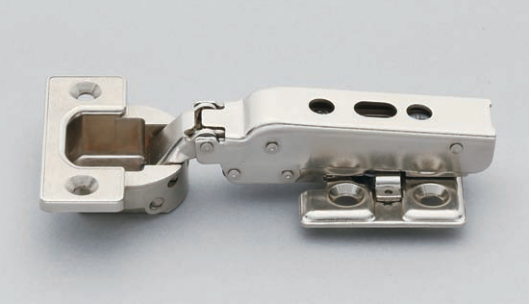
- ●Depth adjustment : + 1.5 -2.5 mm
- ●Vertical adjustment : ± 3 mm
- ●Overlay distance adjustment : + 0, - 4 mm
- ●Thickness: 0 mm (Standard)

■Recommended Screw

Size 5 raised countersunk head tapping screw or wood screw.

Item Code	Item Name	Material	Finish	Weight	Carton
160-026-732	J95-P6T	Steel/Zinc Alloy (ZDC)	Nickel	94 g	100 pcs

95° Opening | **25 mm Overlay** | **Overlay 21～25 mm (When Bore Distance is 8 mm)** | **Cup Dia Ø 40 Bore Depth 15 mm Door Thickness 18 - 30 mm** | **Mounting Plate J95-P6T (P.368)**



Picture above is the combination of concealed hinge and mounting plate.

CONCEALED HINGE J95

Item Code	Item Name	Type	Material	Finish	Weight	Carton
160-026-905	J95-24/25T	w/o Catch	Body/Steel, Cup/Zinc Alloy (ZDC)	Nickel	131 g	100 pcs
160-026-731	J95-C24/25T	w/ Catch	Body/Steel, Cup/Zinc Alloy (ZDC)	Nickel	143 g	100 pcs

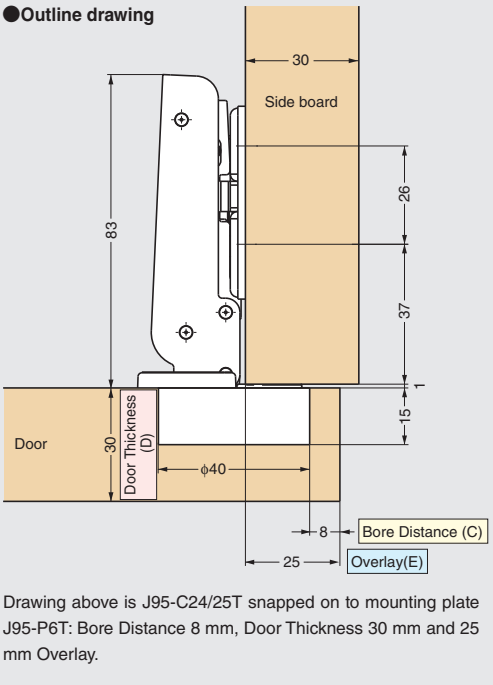
■Features

- 3-way-adjustment function by mounting plate (depth + 1.5, - 2.5 mm, vertical ± 3 mm, overlay [horizontal] + 0, - 4 mm).
- Snap on mount.

■Sold Separately

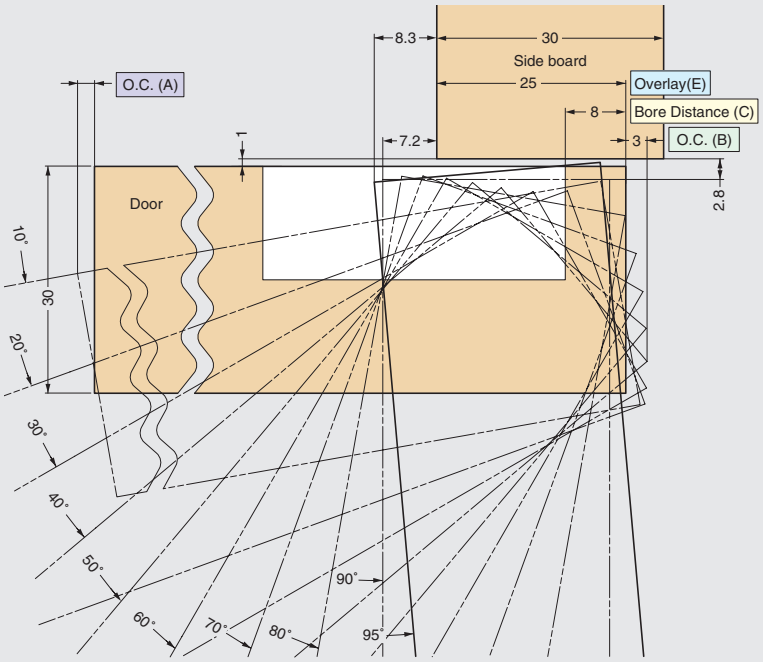
Mounting plate, J95-P6T (P.368)

●Outline drawing



Drawing above is J95-C24/25T snapped on to mounting plate J95-P6T: Bore Distance 8 mm, Door Thickness 30 mm and 25 mm Overlay.

●Locus chart



Drawing above is Bore Distance 8 mm, Door Thickness 30 mm, Side Board Thickness 30 mm and 25 mm Overlay.

■Bore Distance (C)

Bore Distance (C)	3	4	5	6	7	8
Overlay (E)	20	21	22	23	24	25

Overlay adjustment (- 4 mm) by turning the overlay adjustment screw.

■Opening Clearance (O.C.)

Clearances for door edge O.C. (A) and hinge side O.C. (B) are necessary. O.C. (A) and (B) change depending on door thickness and bore distance (C). Refer to locus chart and tables below when designing cabinets.

■O.C. (B)

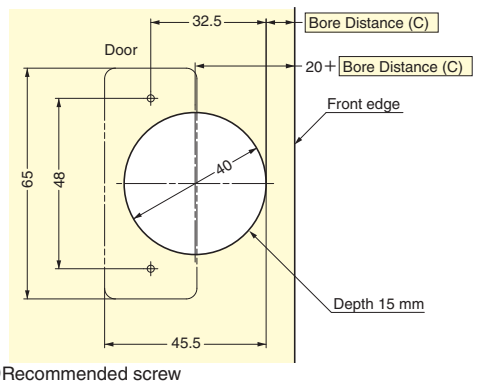
Door Thickness (D)	Bore Distance (C) 3	4	5	6	7	8
18	0.3	0.3	0.3	0.3	0.3	0.3
20	0.5	0.5	0.5	0.5	0.5	0.5
22	0.8	0.8	0.8	0.7	0.7	0.7
24	1.1	1.1	1.1	1.1	1.1	1.0
26	1.7	1.6	1.6	1.5	1.5	1.5
28	3.2	2.8	2.5	2.2	2.1	2.0
30	5.0	4.5	4.0	3.6	3.3	3.0
32	6.8	6.2	5.7	5.2	4.8	4.4
34	8.6	8.0	7.5	6.9	6.5	6.0
	O.C. (B)					

Please refer to the locus chart if door thickness is over 30 mm.

■O.C. (A)

Door Thickness (D)	Door Width 300	400	500	600	700	800	900
30	0.50	0.30	0.30	0.20	0.20	0.20	0.20
	O.C. (A)						

■Cut Out Dimensions



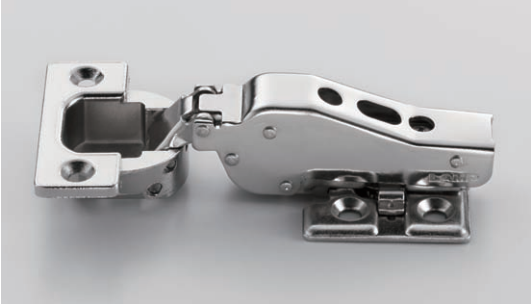
- Recommended screw

Size 5 raised countersunk head tapping screw or wood screw.

■Door Dimensions and Number of Hinges

Please refer to P.368.

95° Opening | **16 mm Overlay** | **Overlay 12 - 16 mm (When Bore Distance is 8 mm)** | **Cup Dia Ø 40 Bore Depth 15 mm Door Thickness 18 - 30 mm** | **Mounting Plate J95-P6T (P.368)**



Picture above is the combination of concealed hinge and mounting plate.

CONCEALED HINGE J95

Item Code	Item Name	Type	Material	Finish	Weight	Carton
160-033-658	J95-24/16T	w/o Catch	Body/Steel, Cup/Zinc Alloy (ZDC)	Nickel	131 g	50 pcs
160-033-657	J95-C24/16T	w Catch	Body/Steel, Cup/Zinc Alloy (ZDC)	Nickel	143 g	50 pcs

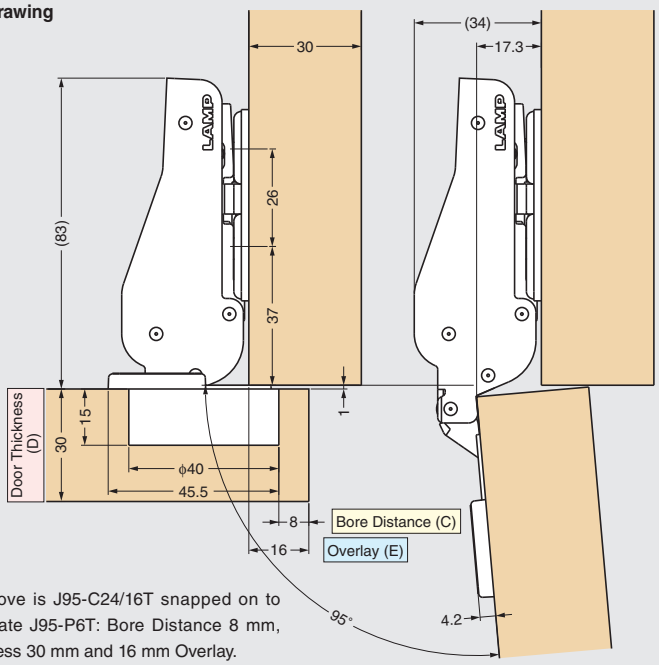
■Features

- 3-way-adjustment function by mounting plate (depth + 1.5, - 2.5 mm, vertical ± 3 mm, overlay [horizontal] + 0, - 4 mm).
- Snap on mount.

■Sold Separately

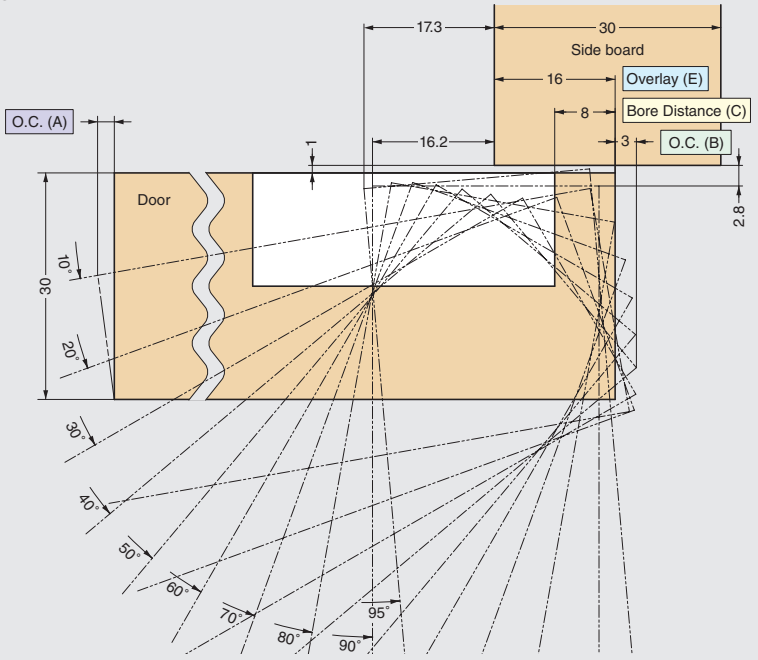
Mounting plate, J95-6PT (P.368)

●Outline drawing



Drawing above is J95-C24/16T snapped on to mounting plate J95-P6T: Bore Distance 8 mm, Door Thickness 30 mm and 16 mm Overlay.

●Locus chart



Drawing above is Bore Distance 8 mm, Door Thickness 30 mm, Side Board Thickness 30 mm and 16 mm Overlay.

■Bore Distance (C)

Bore Distance (C)	3	4	5	6	7	8
Overlay (E)	11	12	13	14	15	16

Overlay adjustment (Max. -4 mm) by turning the overlay adjustment screw.

■Opening Clearance (O.C.)

Clearances for door edge O.C. (A) and hinge side O.C. (B) are necessary. O.C. (A) and (B) change depending on door thickness and bore distance (C). Refer to locus chart and tables below when designing cabinets.

■O.C. (B)

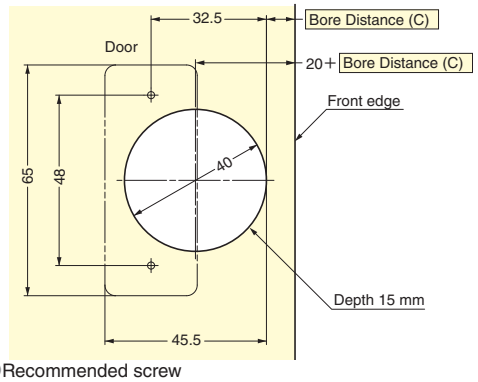
Door Thickness (D)	Bore Distance (C) 3	4	5	6	7	8
18	0.3	0.3	0.3	0.3	0.3	0.3
20	0.5	0.5	0.5	0.5	0.5	0.5
22	0.8	0.8	0.8	0.7	0.7	0.7
24	1.1	1.1	1.1	1.1	1.1	1.0
26	1.7	1.6	1.6	1.5	1.5	1.5
28	3.2	2.8	2.5	2.2	2.1	2.0
30	5.0	4.5	4.0	3.6	3.3	3.0
32	6.8	6.2	5.7	5.2	4.8	4.4
34	8.6	8.0	7.5	6.9	6.5	6.0
	O.C. (B)					

Please refer to the locus chart if door thickness is over 30 mm.

■O.C. (A)

Door Thickness (D)	Door Width 300	400	500	600	700	800	900
20	0.50	0.30	0.30	0.20	0.20	0.20	0.20
	O.C. (A)						

■Cut Out Dimensions



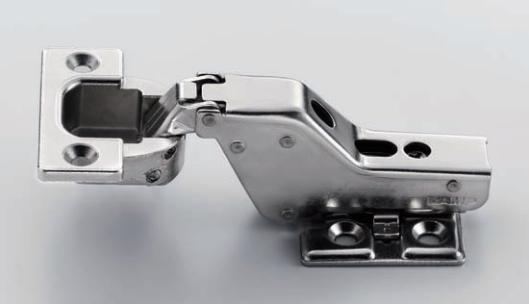
- Recommended screw

Size 5 raised countersunk head tapping screw or wood screw.

■Door Dimensions and Number of Hinges

Please refer to P.368.

95° Opening | **Inset** | **Overlay -4 - 0 mm (When Bore Edge Distance is 8 mm)** | **Cup Dia Ø 40 Bore Depth 15 mm Door Thickness 18 - 30 mm** | **Mounting Plate J95-P6T (P.368)**



Picture above is the combination of concealed hinge and mounting plate.

CONCEALED HINGE J95

Item Code	Item Name	Type	Material	Finish	Weight	Carton
160-033-660	J95-24/0T	w/o Catch	Body/Steel, Cup/Zinc Alloy (ZDC)	Nickel	148 g	100 pcs
160-033-659	J95-C24/0T	w/ Catch	Body/Steel, Cup/Zinc Alloy (ZDC)	Nickel	160 g	100 pcs

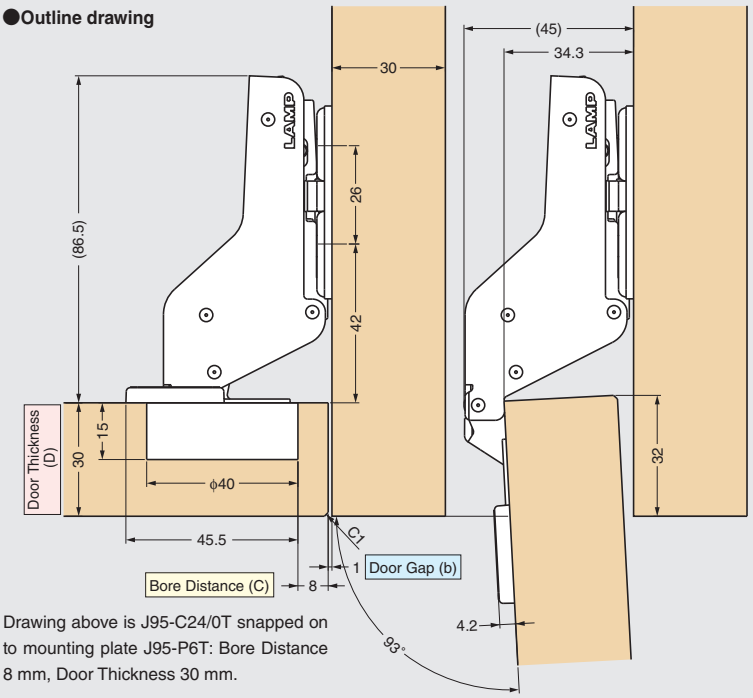
■Features

- 3-way-adjustment function by mounting plate (depth + 1.5, - 2.5 mm, vertical ± 3 mm, overlay [horizontal] + 0, - 4 mm).
- Snap on mount.

■Sold Separately

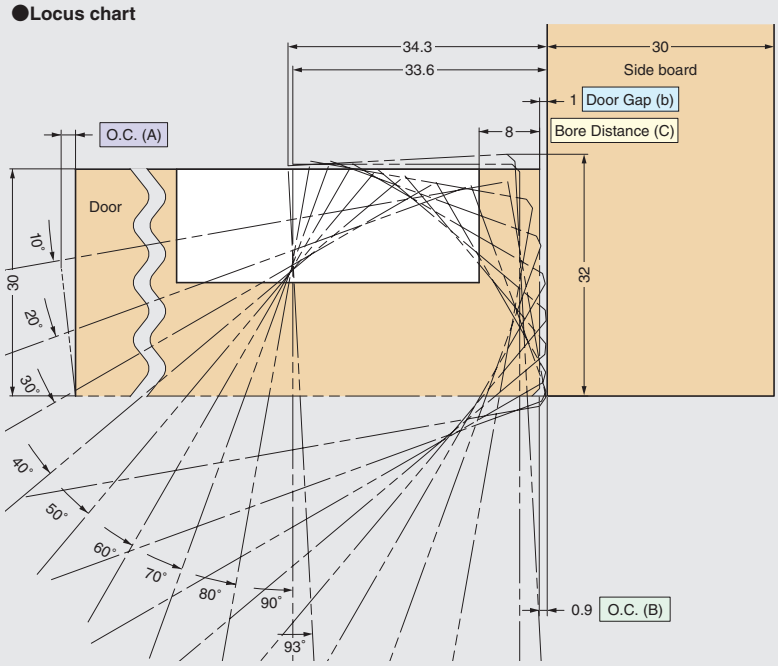
Mounting Plate, J95-6PT (P.368)

●Outline drawing



Drawing above is J95-C24/0T snapped on to mounting plate J95-P6T: Bore Distance 8 mm, Door Thickness 30 mm.

●Locus chart



Drawing above is J95-C24/0T Bore Distance 8 mm, Door Thickness 30 mm, Side Board Thickness 30 mm.

■Bore Distance (C)

Bore Distance (C)	3	4	5	6	7	8
Door Gap (b)	6	5	4	3	2	1

Overlay adjustment (Max. -4 mm) by turning the overlay adjustment screw.

■Opening Clearance (O.C.)

Clearances for door edge O.C. (A) and hinge side O.C. (B) are necessary. O.C. (A) and (B) change depending on door thickness and bore distance (C). Refer to locus chart and tables below when designing cabinets.

■O.C. (B)

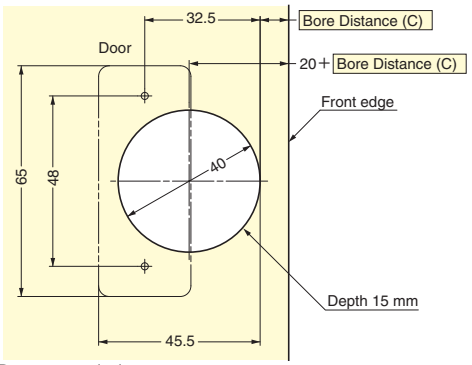
Door Thickness (D)	Bore Distance (C) 3	4	5	6	7	8
18	0	0	0	0	0	0
20	0	0	0	0	0	0
22	0.1	0.1	0.1	0.1	0	0.1
24	0.1	0.1	0.1	0.1	0.1	0.1
26	0.3	0.3	0.3	0.3	0.3	0.3
28	1.7	1.1	0.6	0.5	0.5	0.5
30	3.5	2.9	2.3	1.8	1.0	0.9
32	5.4	4.7	4.1	3.6	3.0	2.5
34	7.3	6.6	6.0	5.4	4.8	4.3
	O.C. (B)					

Please refer to the locus chart if door thickness is over 30 mm.

■O.C. (A)

Door Thickness (D)	Door Width 300	400	500	600	700	800	900
20	0.90	0.60	0.50	0.40	0.40	0.30	0.30
	O.C. (A)						

■Cut Out Dimensions



●Recommended screw

Size 5 raised countersunk head tapping screw or wood screw.

■Door Dimensions and Number of Hinges

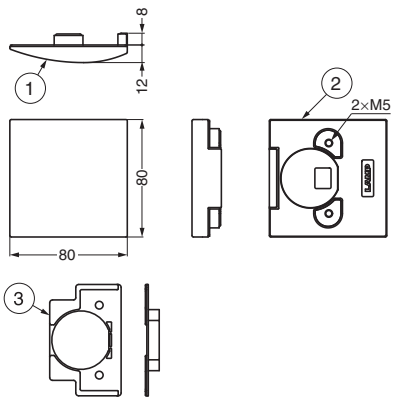
Please refer to P.368.

FACE PLATE FOR GLASS DOOR

STEEL

GH-J95FP-CR





■J95 Application



■Parts Included

Countersunk head screw M5×18

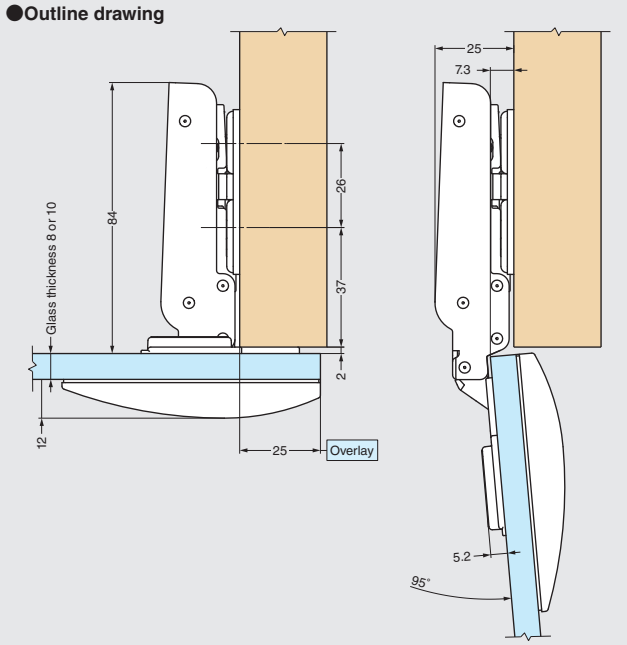
■Sold Separately

- Heavy duty concealed hinge J95 (P.368～371).
- Mounting plate J95-P6T (P.368)

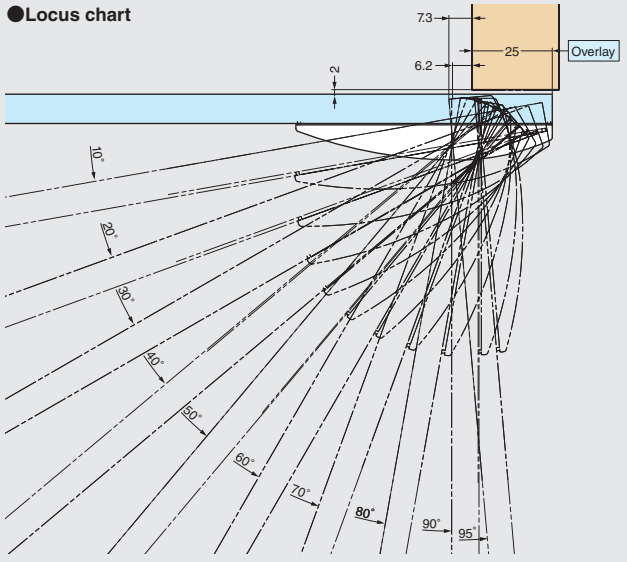
No.	Part Name	Material	Finish/Colour
①	Face Plate	Zinc Alloy (ZDC)	Chrome
②	Face Plate Spacer	Polyacetal (POM)	Black
③	Socket Spacer		

Item Code	Item Name	Material	Finish	Weight	Carton
160-032-418	GH-J95FP-CR	Zinc Alloy (ZDC)	Chrome	333 g	20 pcs

●Outline drawing



●Locus chart



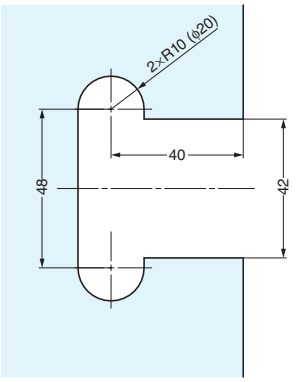
Example (glass thickness : 8 mm / side board : 27 mm / overlay : 25 mm)



■Opening Clearance

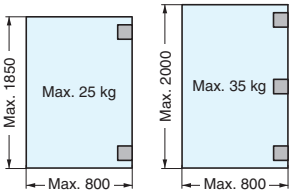
Hinge side = 0 mm
Handle side = 0 mm

■Cut Out Dimensions

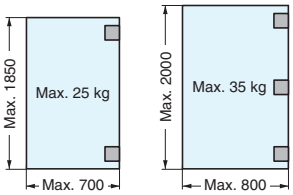


■Door Dimensions and Number of Hinges

Glass thickness : 8 mm



Glass thickness : 10 mm





GH-J95FP-SN
Satin Nickel



GH-J95FP-SLQ
Gold



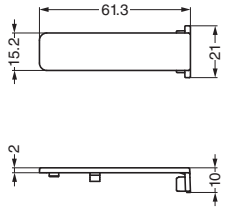
GH-J95FP-SLQ
Antique Bronze

*Other design available on request.

SAFETY COVER

J95SC

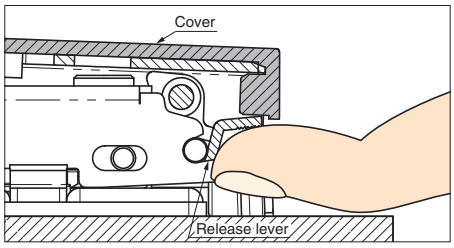


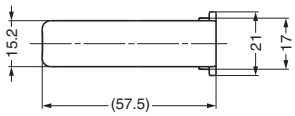


J95SC-25GR

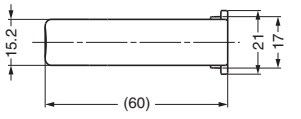
■**Features**

The cover locks the release lever of J95 hinge to prevent accidental release.

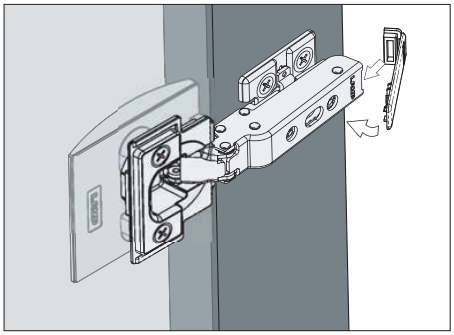




J95SC-16GR



J95SC-0GR

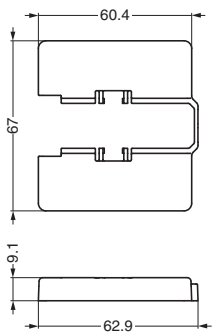


Item Code	Item Name	Use With	Material	Weight	Carton
160-032-763	J95SC-25GR	J95-(C)24/25	ABS	3 g	1000 pcs
160-032-764	J95SC-16GR	J95-(C)24/16	ABS	3 g	1000 pcs
160-032-765	J95SC-0GR	J95-(C)24/0	ABS	3 g	1000 pcs

COVER FOR MOUNTING PLATE

J95ZC

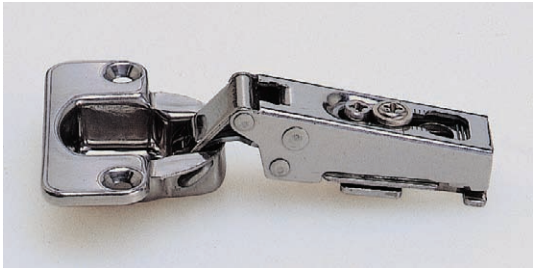






Item Code	Item Name	Use With	Material	Weight	Carton
160-032-766	J95ZC-GR	J95-P6T	ABS	9 g	1000 pcs

100° Opening | **19 mm Overlay** | Overlay 15 - 19 mm | Cup Dia Ø 35 Bore Depth 11 mm Door Thickness 15 - 20 mm | Stainless Steel Mounting Plate 100 Series (P.377)



Picture above is the combination of concealed hinge and mounting plate.

CONCEALED HINGE (STAINLESS STEEL) STAINLESS 304 STEEL 100

Item Code	Item Name	Type	Material	Finish	Weight	Carton
160-073-865	100-46/19 SUS304B	w/o Catch	Stainless Steel (SUS304)	Polished	39 g	200 pcs
160-073-870	100-C46/19 SUS304B	w/ Catch	Stainless Steel (SUS304)	Polished	44 g	200 pcs

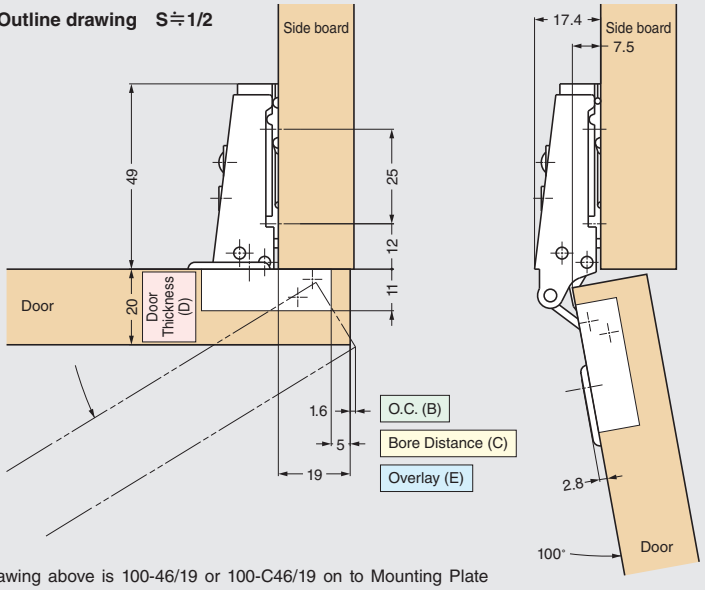
■Features

Screw mount.

■Sold Separately

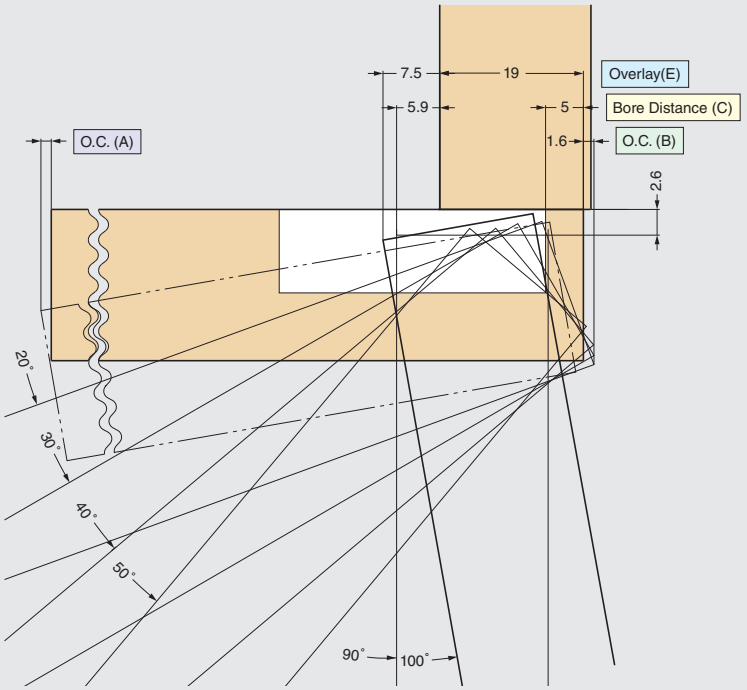
Stainless steel 100 series mounting plate (P.377)

●Outline drawing S≒1/2



Drawing above is 100-46/19 or 100-C46/19 on to Mounting Plate 100-P3A: Bore Distance 5 mm, Door Thickness 20 mm and 19 mm Overlay.

●Locus chart S≒1/1



Drawing above is Bore Distance 5 mm, Door Thickness 20 mm, Side Board Thickness 20 mm and 19 mm Overlay.

■Bore Distance (C)

Bore Distance (C)	3	4	5
Overlay (E)	17	18	19

For standard type mounting plate 0 mm thickness.
Turning the overlay adjustment screw or using distance plate (2 mm thickness) to adjust overlay (Max. - 3 mm).

■Opening Clearance (O.C.)

Clearances for door edge O.C. (A) and hinge side O.C. (B) are necessary. O.C. (A) and (B) change depending on door thickness and bore distance (C). Refer to locus chart and tables below when designing cabinets.

■O.C. (B)

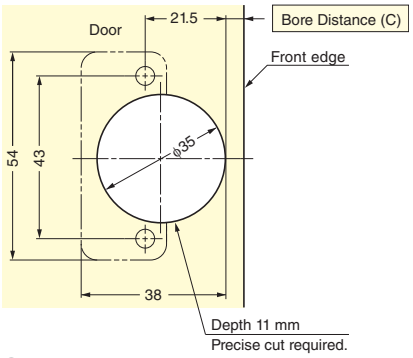
Door Thickness (D)	Bore Distance (C) 3	4	5
15	0.5	0.5	0.4
16	0.6	0.6	0.6
17	0.9	0.8	0.8
18	1.1	1.1	1.0
19	1.4	1.3	1.3
20	1.7	1.6	1.6
21	2.1	2.0	1.9
22	2.5	2.4	2.3
	O.C. (B)		

Please refer to the locus chart if door thickness is over 20 mm.

■O.C. (A)

Door Thickness (D)	Door Width 300	400	500	600
20	0.2	0.1	0.1	0.1
	O.C. (A)			

■Cut Out Dimensions



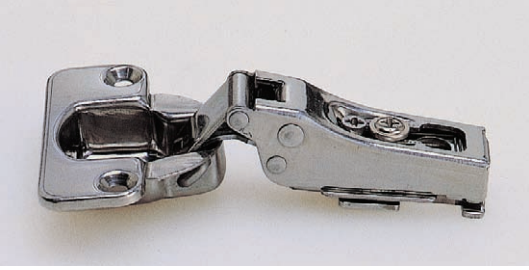
●Recommended screw

Size 3.5 raised countersunk head tapping screw or wood screw.

■Door Dimensions and Number of Hinges

Please refer to P.394.

100° Opening | **14 mm Overlay** | Overlay 10 - 14 mm | Cup Dia Ø 35 Bore Depth 11 mm Door Thickness 15 - 20 mm | Stainless Steel Mounting Plate 100 Series (P.377)



Picture above is the combination of concealed hinge and mounting plate.

CONCEALED HINGE (STAINLESS STEEL) 100

Item Code	Item Name	Type	Material	Finish	Weight	Carton
160-073-875	100-46/14 SUS304B	w/o Catch	Stainless Steel (SUS304)	Polished	41 g	200 pcs
160-073-880	100-C46/14 SUS304B	w/ Catch	Stainless Steel (SUS304)	Polished	45 g	200 pcs

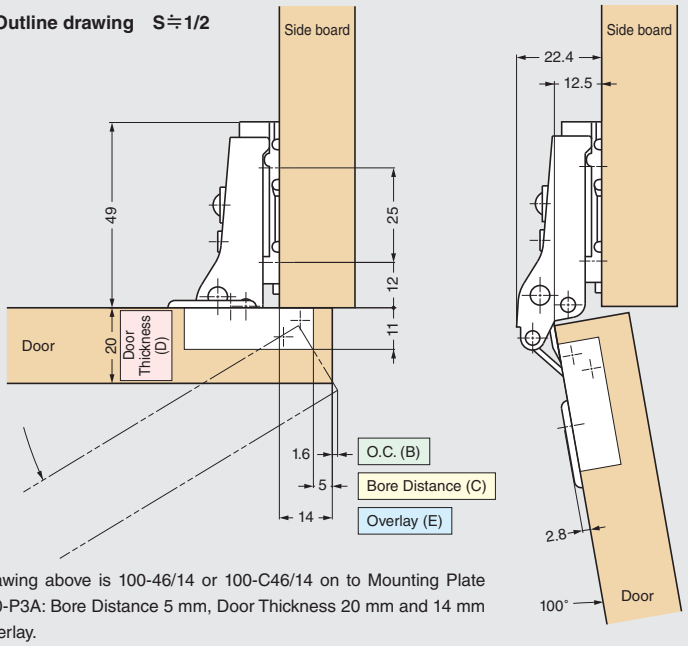
■Features

Screw mount.

■Sold Separately

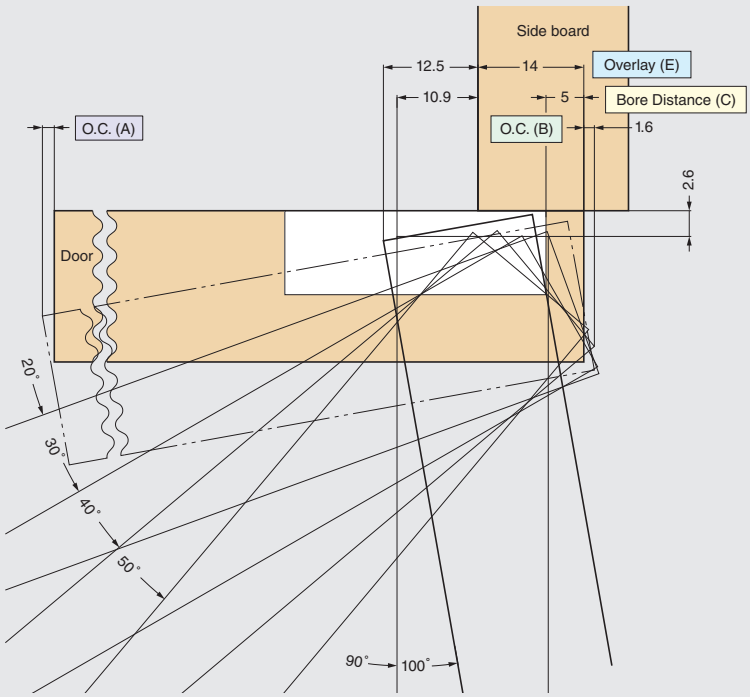
Stainless steel 100 series mounting plate (P.377)

●Outline drawing S≒1/2



Drawing above is 100-46/14 or 100-C46/14 on to Mounting Plate 100-P3A: Bore Distance 5 mm, Door Thickness 20 mm and 14 mm Overlay.

●Locus chart S≒1/1



Drawing above is Bore Distance 5 mm, Door Thickness 20 mm, Side Board Thickness 20 mm and 14 mm Overlay.

■Bore Distance (C)

Bore Distance (C)	3	4	5
Overlay (E)	12	13	14

For standard type mounting plate 0 mm thickness.
Turning the overlay adjustment screw or using distance plate (2 mm thickness) to adjust overlay (Max. - 3 mm).

■Opening Clearance (O.C.)

Clearances for door edge O.C. (A) and hinge side O.C. (B) are necessary. O.C. (A) and (B) change depending on door thickness and bore distance (C). Refer to locus chart and tables below when designing cabinets.

■O.C. (B)

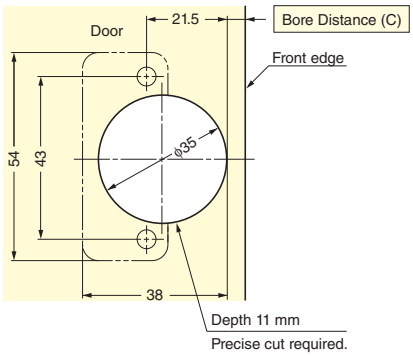
Door Thickness (D)	Bore Distance (C) 3	4	5
15	0.5	0.5	0.4
16	0.6	0.6	0.6
17	0.9	0.8	0.8
18	1.1	1.1	1.0
19	1.4	1.3	1.3
20	1.7	1.6	1.6
21	2.1	2.0	1.9
22	2.5	2.4	2.3
	O.C. (B)		

Please refer to the locus chart if door thickness is over 20 mm.

■O.C. (A)

Door Thickness (D)	Door Width 300	400	500	600
20	0.2	0.1	0.1	0.1
	O.C. (A)			

■Cut Out Dimensions



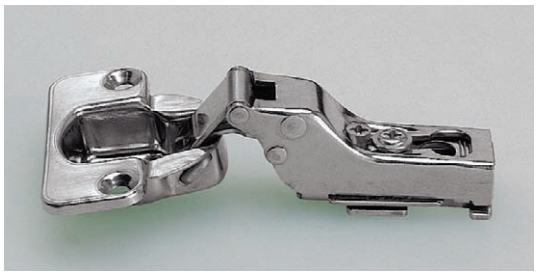
●Recommended screw

Size 3.5 raised countersunk head tapping screw or wood screw.

■Door Dimensions and Number of Hinges

Please refer to P.394.

100° Opening | **9 mm Overlay** | Overlay 5 - 9 mm | Cup Dia Ø 35 Bore Depth 11 mm Door Thickness 15 - 20 mm | Stainless Steel Mounting Plate 100 Series (P.377)



Picture above is the combination of concealed hinge and mounting plate.

CONCEALED HINGE (STAINLESS STEEL) STAINLESS 304 STEEL 100

Item Code	Item Name	Type	Material	Finish	Weight	Carton
160-073-883	100-46/9 SUS304B	w/o Catch	Stainless Steel (SUS304)	Polished	42 g	200 pcs
160-073-884	100-C46/9 SUS304B	w/ Catch	Stainless Steel (SUS304)	Polished	46 g	200 pcs

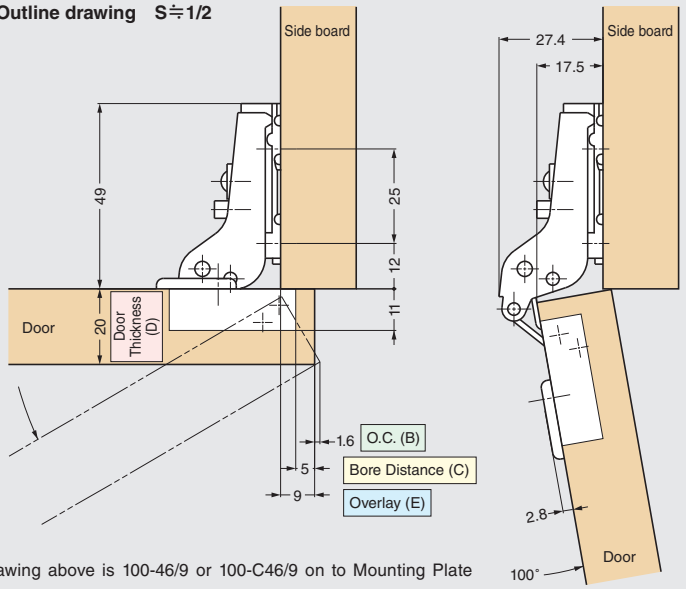
■Features

Screw mount.

■Sold Separately

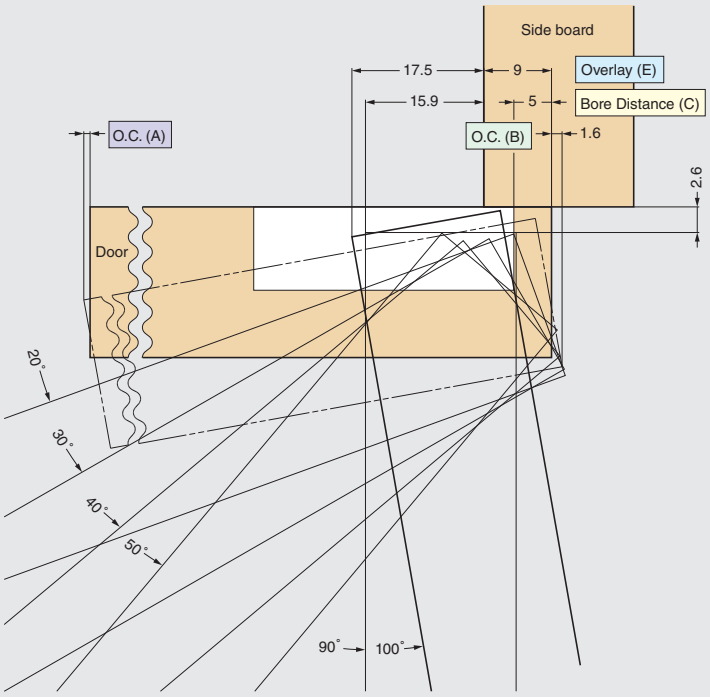
Stainless steel 100 series mounting plate (P.377)

●Outline drawing S≒1/2



Drawing above is 100-46/9 or 100-C46/9 on to Mounting Plate 100-P3A: Bore Distance 5 mm, Door Thickness 20 mm and 9 mm Overlay.

●Locus chart S≒1/1



Drawing above is Bore Distance 5 mm, Door Thickness 20 mm, Side Board Thickness 20 mm and 9 mm Overlay.

■Bore Distance (C)

Bore Distance (C)	3	4	5
Overlay (E)	7	8	9

For standard type mounting plate 0 mm thickness.
Turning the overlay adjustment screw or using distance plate (2 mm thickness) to adjust overlay (Max. - 3 mm).

■Opening Clearance (O.C.)

Clearances for door edge O.C. (A) and hinge side O.C. (B) are necessary. O.C. (A) and (B) change depending on door thickness and bore distance (C). Refer to locus tables and charts below when designing cabinets.

■O.C. (B)

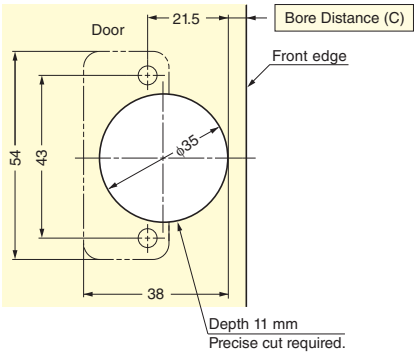
Door Thickness (D)	Bore Distance (C)		
	3	4	5
15	0.5	0.5	0.4
16	0.6	0.6	0.6
17	0.9	0.8	0.8
18	1.1	1.1	1.0
19	1.4	1.3	1.3
20	1.7	1.6	1.6
21	2.1	2.0	1.9
22	2.5	2.4	2.3
	O.C. (B)		

Please refer to the locus chart if door thickness is over 20 mm.

■O.C. (A)

Door Thickness (D)	Door Width			
20	300	400	500	600
	0.2	0.1	0.1	0.1
	O.C. (A)			

■Cut Out Dimensions



●Recommended screw

Size 3.5 raised countersunk head tapping screw or wood screw.

■Door Dimensions and Number of Hinges

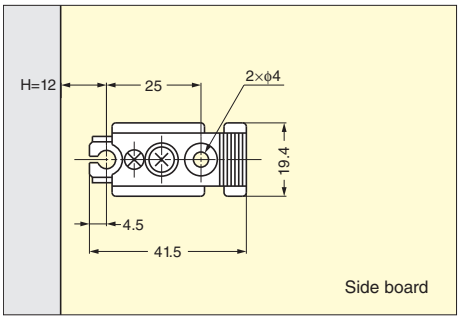
Please refer to P.394.

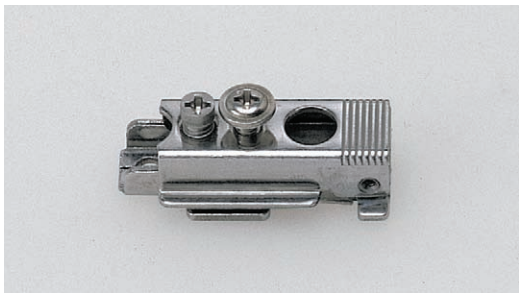
STAINLESS STEEL MOUNTING PLATE 100 SERIES

STANDARD TYPE

STAINLESS 304 STEEL

100-P3A-SUS304B





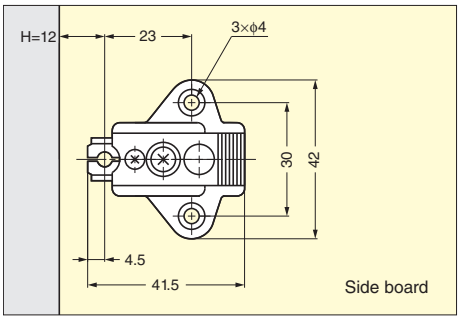
Standard height: 0 mm

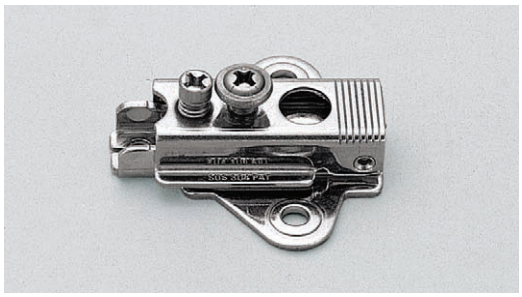
Item Code	Item Name	Material	Finish	Weight	Carton
160-074-155	100-P3A-SUS304B	Stainless Steel (SUS304)	Polished	22 g	400 pcs

SYSTEM 35, 30 TYPE

STAINLESS 304 STEEL

100-P4A-30-SUS304B





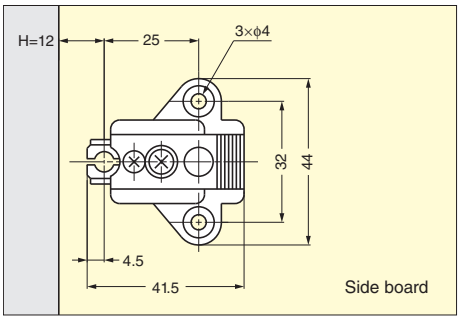
Standard height: 0 mm

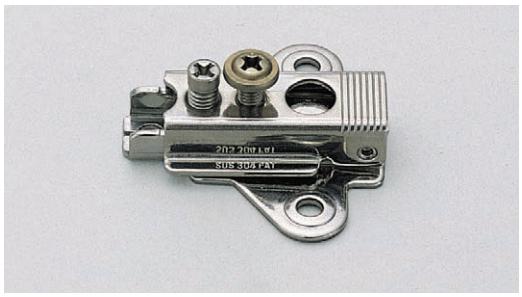
Item Code	Item Name	Material	Finish	Weight	Carton
160-074-152	100-P4A-30-SUS304B	Stainless Steel (SUS304)	Polished	26 g	400 pcs

SYSTEM 37, 32 TYPE

STAINLESS 304 STEEL

100-P4A-32-SUS304B





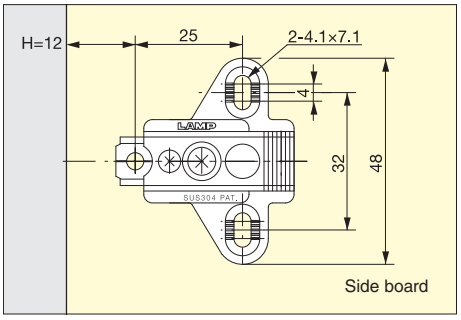
Standard height: 0 mm

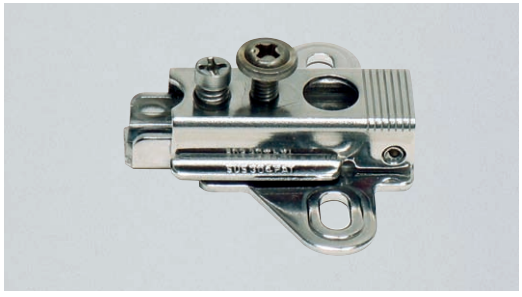
Item Code	Item Name	Material	Finish	Weight	Carton
160-079-056	100-P4A-32-SUS304B	Stainless Steel (SUS304)	Polished	27 g	400 pcs

SYSTEM 37, 32 TYPE

STAINLESS 304 STEEL

100-P4A-32-3W-SUS304B

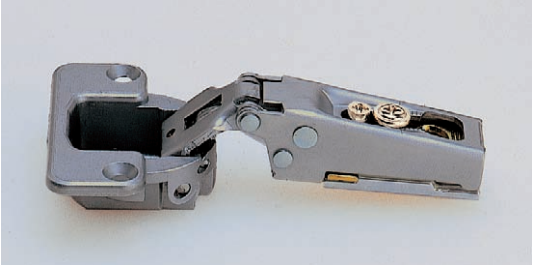




Standard height: 0 mm

Item Code	Item Name	Material	Finish	Weight	Carton
160-079-044	100-P4A-32-SUS304B	Stainless Steel (SUS304)	Polished	26 g	400 pcs

120° Opening | **19 mm Overlay** | Overlay 14 - 19 mm | Cup Dia Ø 35 Bore Depth 13.5 mm Door Thickness 17 - 20 mm | Mounting Plate 100 Series (P.389-392)



Picture above is the combination of concealed hinge and mounting plate.

CONCEALED HINGE 120

Item Code	Item Name	Type	Material	Finish	Weight	Carton
160-073-930	120-34/19	w/o Catch	Body/Steel, Cup/Zinc Alloy (ZDC)	Chrome	65 g	200 pcs
160-073-935	120-C34/19	w/ Catch	Body/Steel, Cup/Zinc Alloy (ZDC)	Chrome	69 g	200 pcs

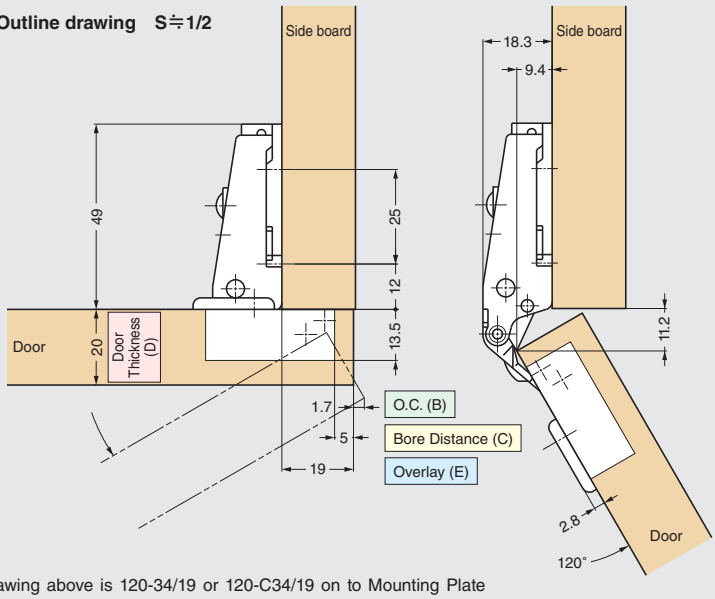
■Features

Screw mount.

■Sold Separately

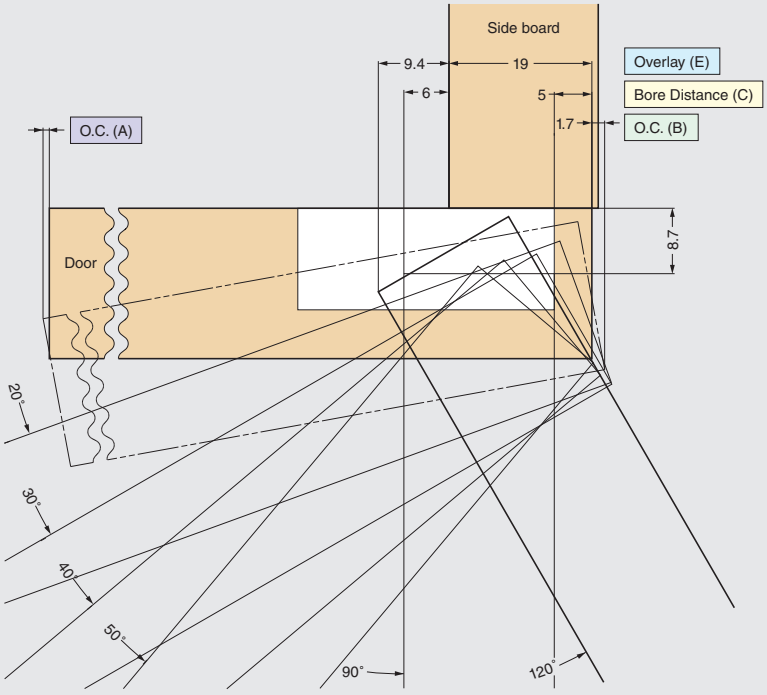
100 series mounting plate (P.389-392).

●Outline drawing S≒1/2



Drawing above is 120-34/19 or 120-C34/19 on to Mounting Plate 100-03A: Bore Distance 5 mm, Door Thickness 20 mm and 19 mm Overlay.

●Locus chart S≒1/1



Drawing above is Bore Distance 5 mm, Door Thickness 20 mm, Side Board Thickness 20 mm and 19 mm Overlay.

■Bore Distance (C)

Bore Distance (C)	3	4	5
Overlay (E)	17	18	19

For standard type mounting plate 0 mm thickness.
Turning the overlay adjustment screw or using distance plate (2 mm thickness) to adjust overlay (Max. - 3 mm).

■Opening Clearance (O.C.)

Clearances for door edge O.C. (A) and hinge side O.C. (B) are necessary. O.C. (A) and (B) change depending on door thickness and bore distance (C). Refer to locus chart and tables below when designing cabinets.

■O.C. (B)

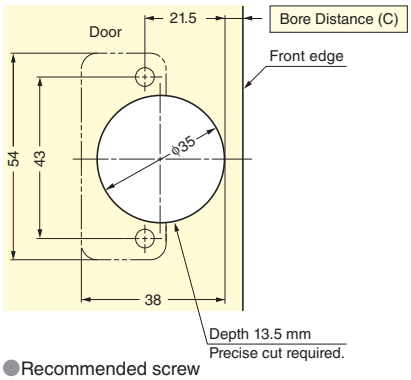
Door Thickness (D)	Bore Distance (C)		
	3	4	5
17	1.1	1.1	1.1
18	1.3	1.3	1.3
19	1.5	1.5	1.5
20	2.7	2.0	1.7
21	4.5	3.7	2.7
22	6.5	5.5	4.5
	O.C. (B)		

Please refer to the locus chart if door thickness is over 20 mm.

■O.C. (A)

Door Thickness (D)	Door Width			
20	300	400	500	600
	0.1	0.1	0.1	0.1
	O.C. (A)			

■Cut Out Dimensions



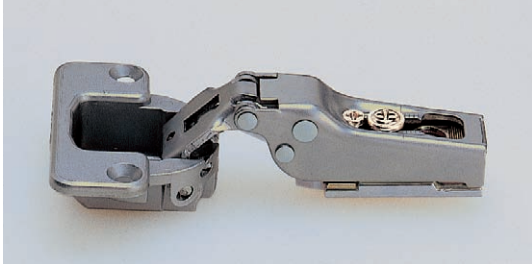
●Recommended screw

Size 3.5 raised countersunk head tapping screw or wood screw.

■Door Dimensions and Number of Hinges

Please refer to P.394.

120° Opening | **14 mm Overlay** | Overlay 9 - 14 mm | Cup Dia Ø 35 Bore Depth 13.5 mm Door Thickness 17 - 20 mm | Mounting Plate 100 Series (P.389-392)



Picture above is the combination of concealed hinge and mounting plate.

CONCEALED HINGE 120

Item Code	Item Name	Type	Material	Finish	Weight	Carton
160-073-931	120-34/14	w/o Catch	Body/Steel, Cup/Zinc Alloy (ZDC)	Chrome	65 g	200 pcs
160-073-936	120-C34/14	w/ Catch	Body/Steel, Cup/Zinc Alloy (ZDC)	Chrome	69 g	200 pcs

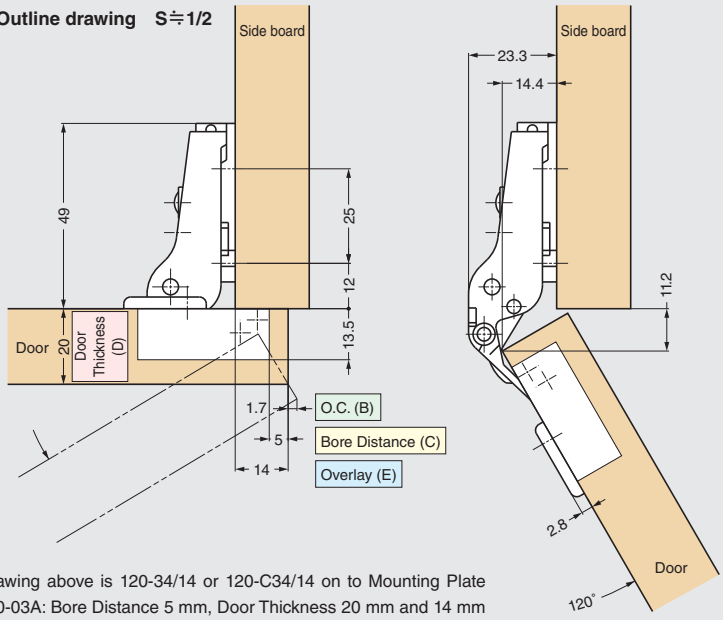
■Features

Screw mount.

■Sold Separately

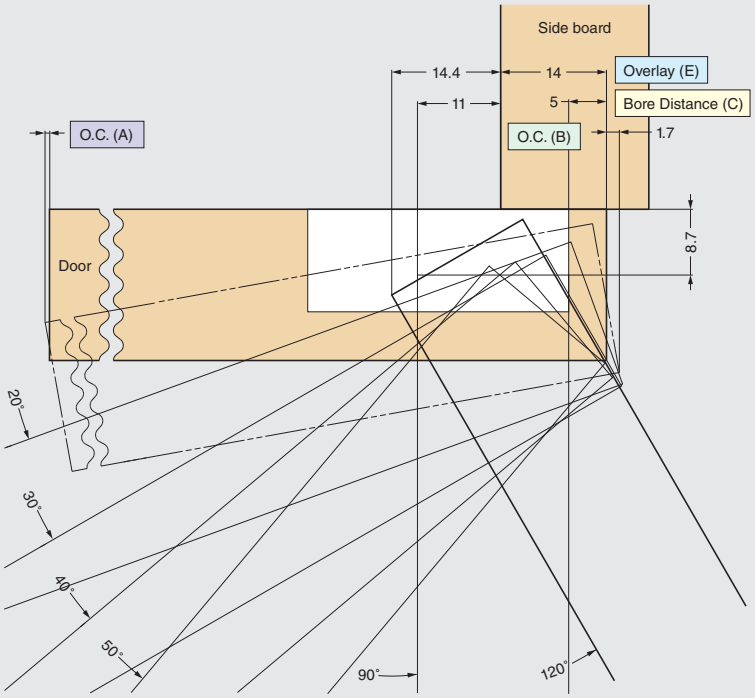
100 series mounting plate (P.389-392).

●Outline drawing S≒1/2



Drawing above is 120-34/14 or 120-C34/14 on to Mounting Plate 100-03A: Bore Distance 5 mm, Door Thickness 20 mm and 14 mm Overlay.

●Locus chart S≒1/1



Drawing above is Bore Distance 5 mm, Door Thickness 20 mm, Side Board Thickness 20 mm and 14 mm Overlay.

■Bore Distance (C)

Bore Distance (C)	3	4	5
Overlay (E)	12	13	14

For standard type mounting plate 0 mm thickness.
Turning the overlay adjustment screw or using distance plate (2 mm thickness) to adjust overlay (Max. - 3 mm).

■Opening Clearance (O.C.)

Clearances for door edge O.C. (A) and hinge side O.C. (B) are necessary. O.C. (A) and (B) change depending on door thickness and bore distance (C). Refer to locus chart and tables below when designing cabinets.

■O.C. (B)

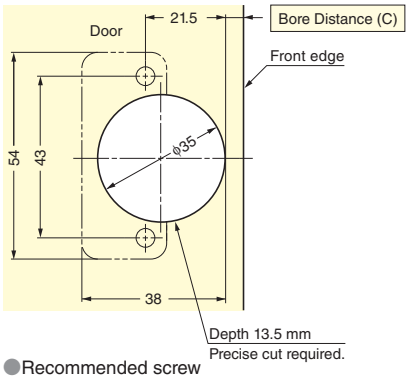
Door Thickness (D)	Bore Distance (C)		
	3	4	5
17	1.1	1.1	1.1
18	1.3	1.3	1.3
19	1.5	1.5	1.5
20	2.7	2.0	1.7
21	4.5	3.7	2.7
22	6.5	5.5	4.5
	O.C. (B)		

Please refer to the locus chart if door thickness is over 20 mm.

■O.C. (A)

Door Thickness (D)	Door Width			
20	300	400	500	600
	0.1	0.1	0.1	0.1
	O.C. (A)			

■Cut Out Dimensions



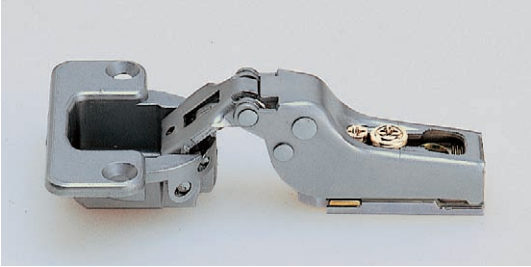
●Recommended screw

Size 3.5 raised countersunk head tapping screw or wood screw.

■Door Dimensions and Number of Hinges

Please refer to P.394.

120° Opening | **9 mm Overlay** | Overlay 4 - 9 mm | Cup Dia Ø 35 Bore Depth 13.5 mm Door Thickness 17 - 20 mm | Mounting Plate 100 Series (P.389-392)



Picture above is the combination of concealed hinge and mounting plate.

CONCEALED HINGE 120

Item Code	Item Name	Type	Material	Finish	Weight	Carton
160-073-932	120-34/9	w/o Catch	Body/Steel, Cup/Zinc Alloy (ZDC)	Chrome	66 g	200 pcs
160-073-937	120-C34/9	w/ Catch	Body/Steel, Cup/Zinc Alloy (ZDC)	Chrome	72 g	200 pcs

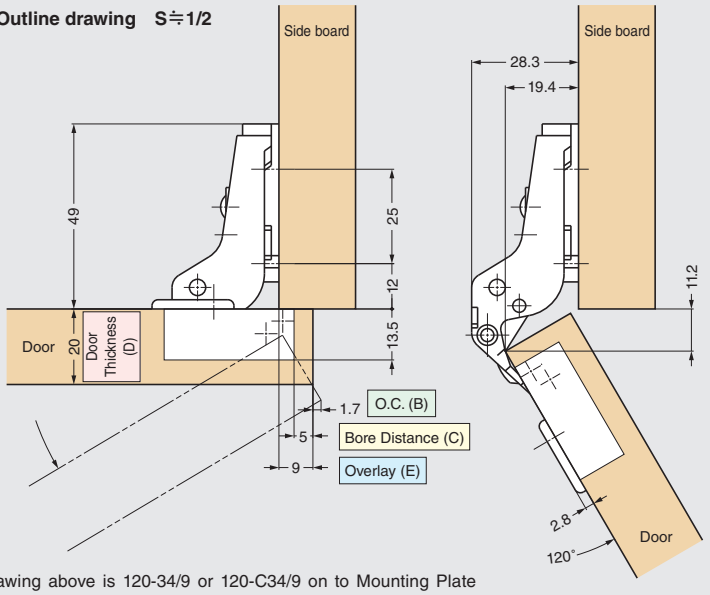
■Features

Screw mount.

■Sold Separately

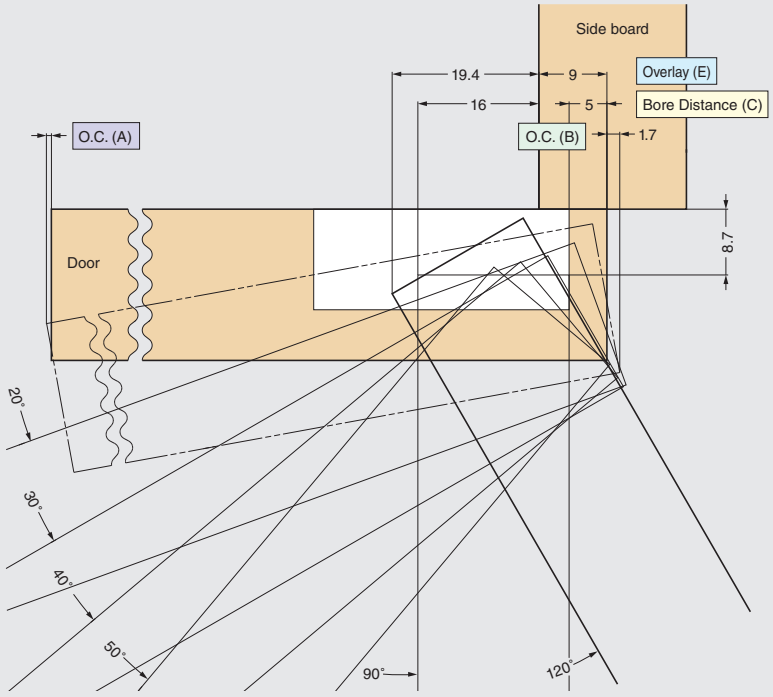
100 series mounting plate (P.389-392).

●Outline drawing S≒1/2



Drawing above is 120-34/9 or 120-C34/9 on to Mounting Plate 100-03A: Bore Distance 5 mm, Door Thickness 20 mm and 9 mm Overlay.

●Locus chart S≒1/1



Drawing above is Bore Distance 5 mm, Door Thickness 20 mm, Side Board Thickness 20 mm and 9 mm Overlay.

■Bore Distance (C)

Bore Distance (C)	3	4	5
Overlay (E)	7	8	9

For standard type mounting plate 0 mm thickness.
Turning the overlay adjustment screw or using distance plate (2 mm thickness) to adjust overlay (Max. - 3 mm).

■Opening Clearance (O.C.)

Clearances for door edge O.C. (A) and hinge side O.C. (B) are necessary. O.C. (A) and (B) change depending on door thickness and bore distance (C). Refer to locus chart and tables below when designing cabinets.

■O.C. (B)

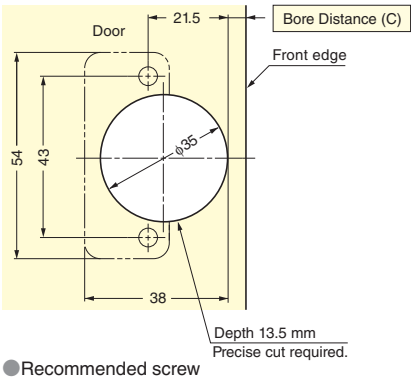
Door Thickness (D)	Bore Distance (C)		
	3	4	5
17	1.1	1.1	1.1
18	1.3	1.3	1.3
19	1.5	1.5	1.5
20	2.7	2.0	1.7
21	4.5	3.7	2.7
22	6.5	5.5	4.5
	O.C. (B)		

Please refer to the locus chart if door thickness is over 20 mm.

■O.C. (A)

Door Thickness (D)	Door Width			
	300	400	500	600
20	0.1	0.1	0.1	0.1
	O.C. (A)			

■Cut Out Dimensions



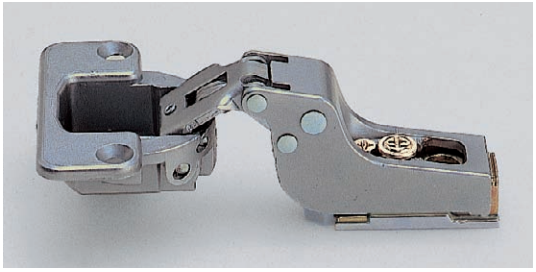
●Recommended screw

Size 3.5 raised countersunk head tapping screw or wood screw.

■Door Dimensions and Number of Hinges

Please refer to P.394.

110° Opening | **Inset** | **Cup Dia Ø 35 Bore Depth 13.5 mm Door Thickness 17 - 20 mm** | **Mounting Plate 100 Series (P.389-392)**



Picture above is the combination of concealed hinge and mounting plate.

CONCEALED HINGE 120

Item Code	Item Name	Type	Material	Finish	Weight	Carton
160-073-933	120-34/0	w/o Catch	Zinc Alloy (ZDC)	Chrome	73 g	200 pcs
160-073-938	120-C34/0	w/ Catch	Zinc Alloy (ZDC)	Chrome	79 g	200 pcs

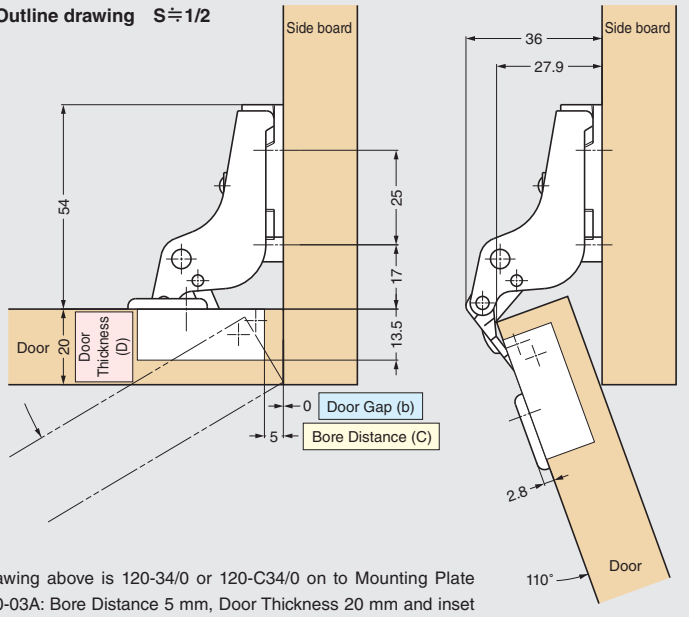
■Features

Screw mount.

■Sold Separately

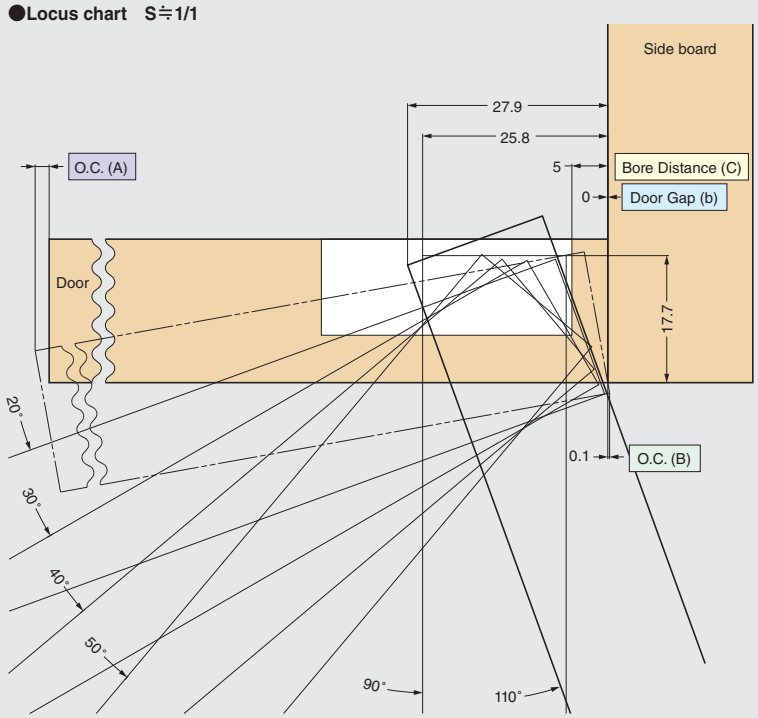
100 series mounting plate (P.389-392).

●Outline drawing S≒1/2



Drawing above is 120-34/0 or 120-C34/0 on to Mounting Plate 100-03A: Bore Distance 5 mm, Door Thickness 20 mm and inset use.

●Locus chart S≒1/1



Drawing above is Bore Distance 5 mm, Door Thickness 20 mm, Side Board Thickness 20 mm and inset type.

■Bore Distance (C)

Bore Distance (C)	3	4	5
Door Gap (b)	2	1	0

For standard type mounting plate 0 mm thickness.
Turning the overlay adjustment screw or using distance plate (2 mm thickness) to adjust door gap (Max. - 3 mm).

■Opening Clearance (O.C.)

Clearances for door edge O.C. (A) and hinge side O.C. (B) are necessary. O.C. (A) and (B) change depending on door thickness and bore distance (C). Refer to locus chart and tables below when designing cabinets.

■O.C. (B)

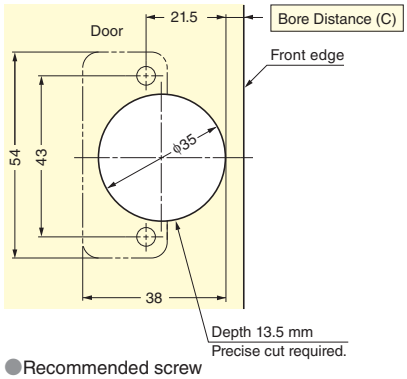
Door Thickness (D)	Bore Distance (C)		
	3	4	5
17	0.1	0.1	0.1
18	0.1	0.1	0.1
19	0.5	0.1	0.1
20	2.0	1.0	0.1
21	3.5	2.6	1.5
22	5.0	4.0	3.0
	O.C. (B)		

Please refer to the locus chart if door thickness is over 20 mm.

■O.C. (A)

Door Thickness (D)	Door Width			
20	300	400	500	600
	0.55	0.4	0.35	0.3
	O.C. (A)			

■Cut Out Dimensions



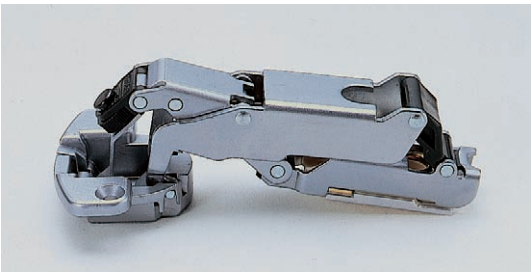
●Recommended screw

Size 3.5 raised countersunk head tapping screw or wood screw.

■Door Dimensions and Number of Hinges

Please refer to P.394.

170° Opening | **19 mm Overlay** | Overlay 15 - 20 mm | Cup Dia Ø 35 Bore Depth 11 mm Door Thickness 15 - 20 mm | Mounting Plate 100 Series (P.389-392)



Picture above is the combination of concealed hinge and mounting plate.

CONCEALED HINGE 170

Item Code	Item Name	Type	Material	Finish	Weight	Carton
160-073-390	170-34/19	w/o Catch	Body/Steel, Cup/Zinc Alloy (ZDC)	Chrome	117 g	100 pcs
160-073-400	170-C34/19	w/ Catch	Body/Steel, Cup/Zinc Alloy (ZDC)	Chrome	125 g	100 pcs

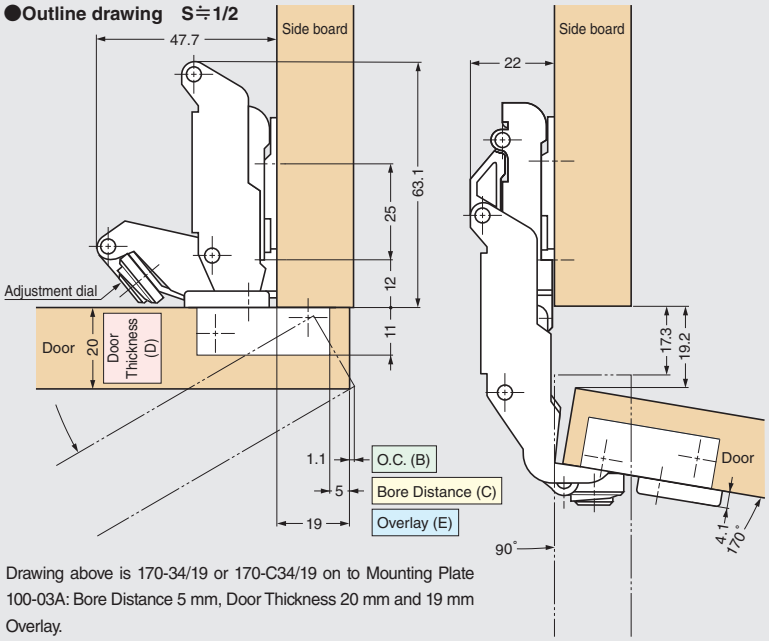
■Features

- Opening angle can be adjusted 140 - 170 degrees by turning the dial on the hinge.
- Screw mount.

■Sold Separately

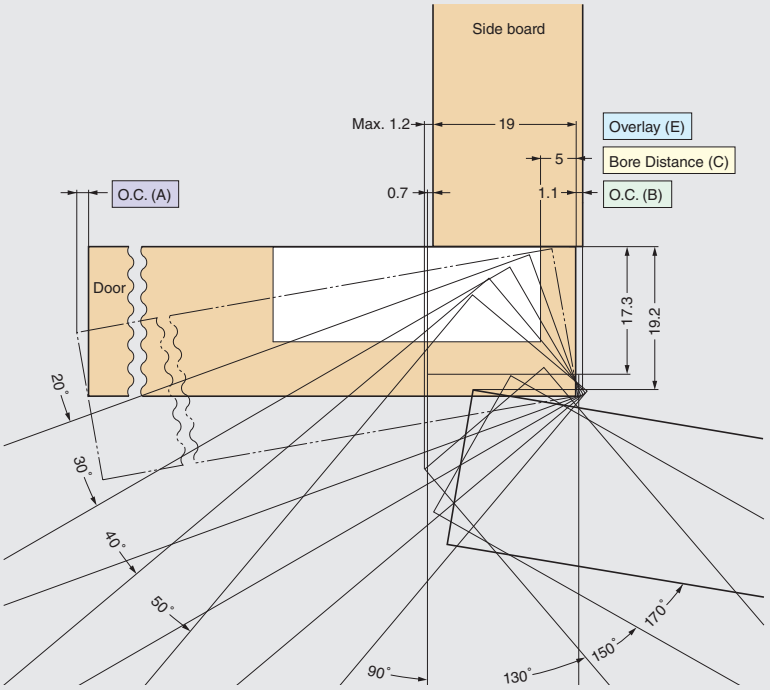
100 series mounting plate (P.389-392).

●Outline drawing S≒1/2



Drawing above is 170-34/19 or 170-C34/19 on to Mounting Plate 100-03A: Bore Distance 5 mm, Door Thickness 20 mm and 19 mm Overlay.

●Locus chart S≒1/1



Drawing above is Bore Distance 5 mm, Door Thickness 20 mm, Side Board Thickness 20 mm and 19 mm Overlay.

■Bore Distance (C)

Bore Distance (C)	3	4	5	6
Overlay (E)	17	18	19	20

For standard type mounting plate 0 mm thickness.
Turning the overlay adjustment screw or using distance plate (2 mm thickness) to adjust overlay (Max. - 3 mm).

■Opening Clearance (O.C.)

Clearances for door edge O.C. (A) and hinge side O.C. (B) are necessary. O.C. (A) and (B) change depending on door thickness and bore distance (C). Refer to locus chart and tables below when designing cabinets.

■O.C. (B)

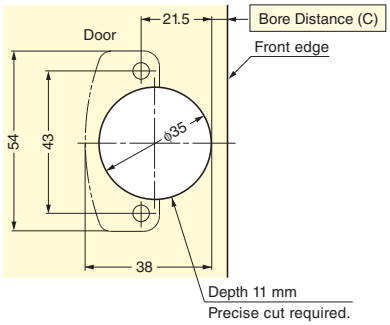
Door Thickness (D)	Bore Distance (C) 3	4	5	6
15	0	0	0	0
16	0	0	0	0
17	0.1	0.1	0.1	0.1
18	0.1	0.1	0.1	0.1
19	1.1	0.8	0.3	0.1
20	2.5	1.7	1.1	0.6
21	3.5	2.7	2.0	1.5
22	4.5	3.7	2.9	2.3
	O.C. (B)			

Please refer to the locus chart if door thickness is over 20 mm.

■O.C. (A)

Door Thickness (D) \ Door Width	300	400	500
15	0.7	0.6	0.5
20	0.7	0.6	0.5
22	0.7	0.6	0.5
	O.C. (A)		

■Cut Out Dimensions



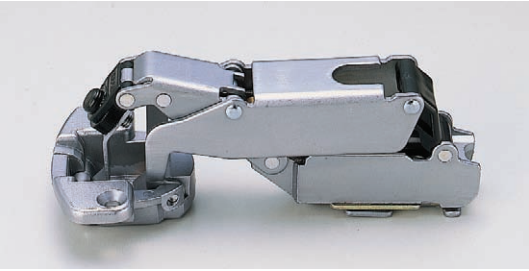
●Recommended screw

Size 3.5 raised countersunk head tapping screw or wood screw.

■Door Dimensions and Number of Hinges

Please refer to P.394.

170° Opening | **9 mm Overlay** | Overlay 5 - 10 mm | Cup Dia Ø 35 Bore Depth 11 mm Door Thickness 15 - 20 mm | Mounting Plate 100 Series (P.389-392)



Picture above is the combination of concealed hinge and mounting plate.

CONCEALED HINGE 170

Item Code	Item Name	Type	Material	Finish	Weight	Carton
160-073-392	170-34/9	w/o Catch	Zinc Alloy (ZDC)	Chrome	133 g	100 pcs
160-073-402	170-C34/9	w/ Catch	Zinc Alloy (ZDC)	Chrome	141 g	100 pcs

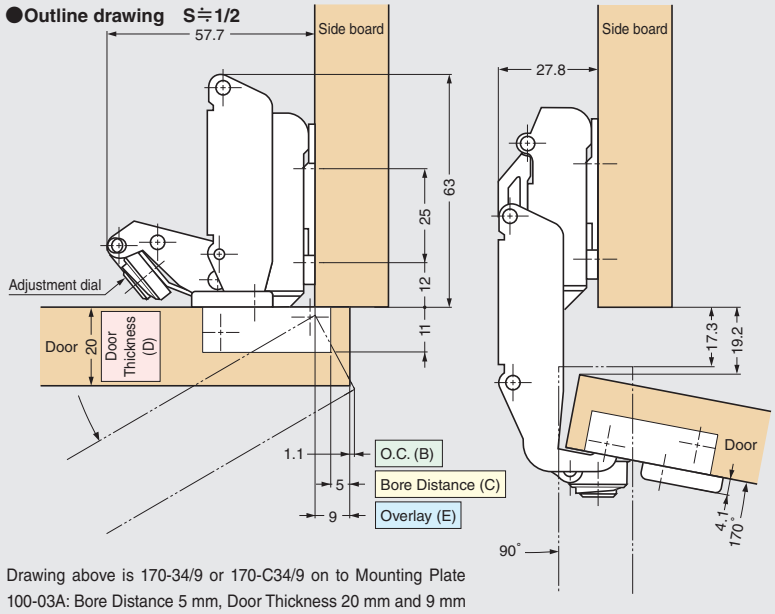
■Features

- Opening angle can be adjusted 140 - 170 degrees by turning the dial on the hinge.
- Screw mount.

■Sold Separately

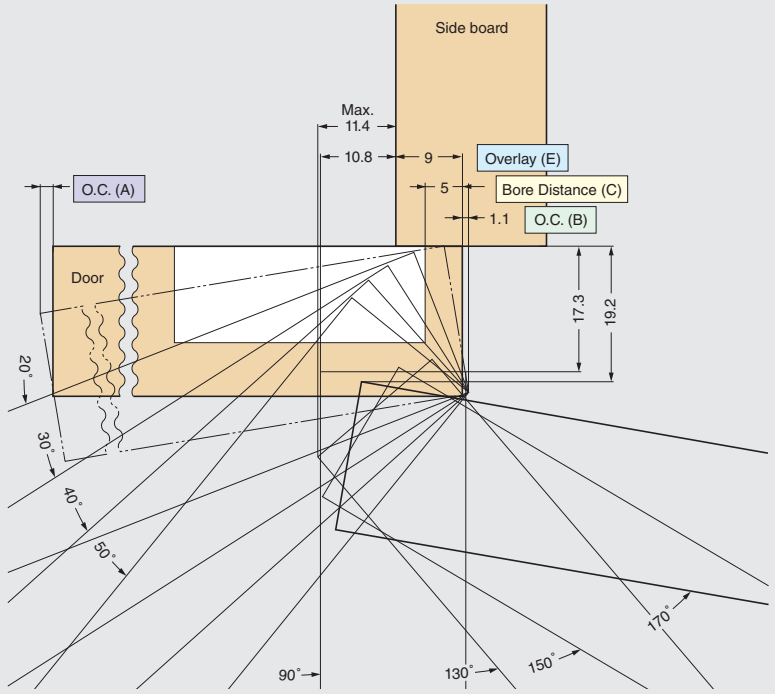
100 series mounting plate (P.389-392).

●Outline drawing S≒1/2



Drawing above is 170-34/9 or 170-C34/9 on to Mounting Plate 100-03A: Bore Distance 5 mm, Door Thickness 20 mm and 9 mm Overlay.

●Locus chart S≒1/1



Drawing above is Bore Distance 5 mm, Door Thickness 20 mm, Side Board Thickness 20 mm and 9 mm Overlay.

■Bore Distance (C)

Bore Distance (C)	3	4	5	6
Overlay (E)	7	8	9	10

For standard type mounting plate 0 mm thickness.
Turning the overlay adjustment screw or using distance plate (2 mm thickness) to adjust overlay (Max. - 3 mm).

■Opening Clearance (O.C.)

Clearances for door edge O.C. (A) and hinge side O.C. (B) are necessary. O.C. (A) and (B) change depending on door thickness and bore distance (C). Refer to locus chart and tables below when designing cabinets.

■O.C. (B)

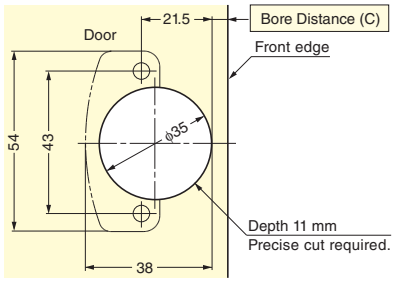
Door Thickness (D)	Bore Distance (C) 3	4	5	6
15	0	0	0	0
16	0	0	0	0
17	0	0	0	0
18	0.1	0.1	0	0
19	1.0	0.6	0.2	0
20	2.3	1.7	1.1	0.6
21	3.5	2.6	2.0	1.5
22	4.4	3.5	2.9	2.2
	O.C. (B)			

Please refer to the locus chart if door thickness is over 20 mm.

■O.C. (A)

Door Thickness (D) \ Door Width	300	400	500
15	0.7	0.5	0.5
20	0.7	0.5	0.5
22	0.7	0.5	0.5
	O.C. (A)		

■Cut Out Dimensions



●Recommended screw

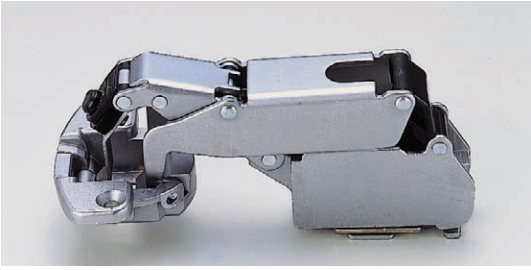
Size 3.5 raised countersunk head tapping screw or wood screw.

■Door Dimensions and Number of Hinges

Please refer to P.394.

170° Opening | **Inset** | **Cup Dia Ø 35 Bore Depth 11 mm Door Thickness 15 - 20 mm** | **Mounting Plate 100 Series (P.389-392)**

CONCEALED HINGE 170



Picture above is the combination of concealed hinge and mounting plate.

Item Code	Item Name	Type	Material	Finish	Weight	Carton
160-073-393	170-34/0	w/o Catch	Zinc Alloy (ZDC)	Chrome	153 g	100 pcs
160-073-403	170-C34/0	w/ Catch	Zinc Alloy (ZDC)	Chrome	161 g	100 pcs

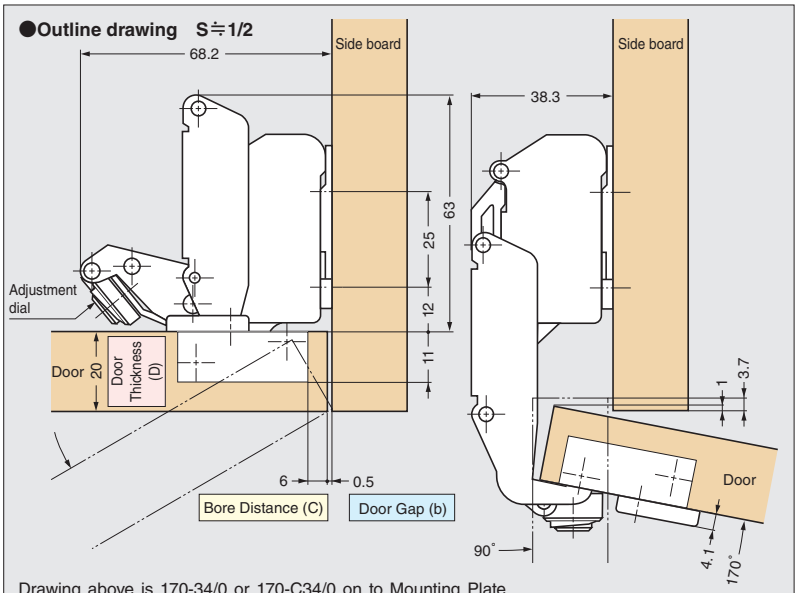
■Features

- Opening angle can be adjusted 140 - 170 degrees by turning the dial on the hinge.
- Screw mount.

■Sold Separately

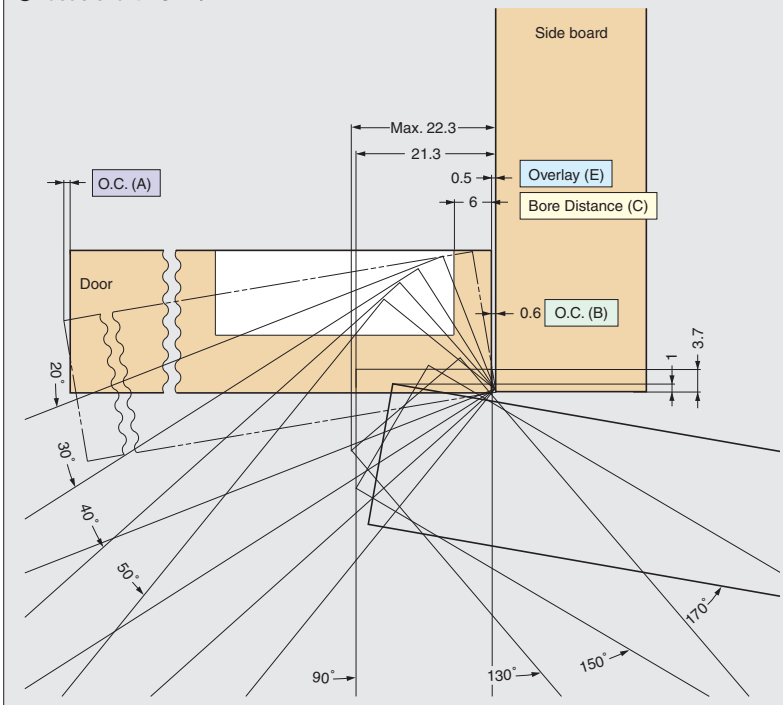
100 series mounting plate (P.389-392).

●Outline drawing S≒1/2



Drawing above is 170-34/0 or 170-C34/0 on to Mounting Plate 100-03A: Bore Distance 6 mm, Door Thickness 20 mm and inset type.

●Locus chart S≒1/1



Drawing above is Bore Distance 6 mm, Door Thickness 20 mm, Side Board Thickness 20 mm and inset type.

■Bore Distance (C)

Bore Distance (C)	3	4	5	6
Door Gap (b)	3.5	2.5	1.5	0.5

For standard type mounting plate 0 mm thickness.
Turning the overlay adjustment screw or using distance plate (2 mm thickness) to adjust overlay (Max. - 3 mm).

■Opening Clearance (O.C.)

Clearances for door edge O.C. (A) and hinge side O.C. (B) are necessary. O.C. (A) and (B) change depending on door thickness and bore distance (C). Refer to locus chart and tables below when designing cabinets.

■O.C. (B)

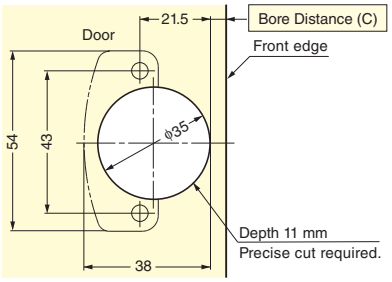
Door Thickness (D)	Bore Distance (C) 3	4	5	6
15	0	0	0	0
16	0	0	0	0
17	0	0	0	0
18	0.1	0.1	0	0
19	1.0	0.6	0.2	0
20	2.3	1.7	1.1	0.6
21	3.5	2.6	2.0	1.5
22	4.4	3.5	2.9	2.2
	O.C. (B)			

Please refer to the locus chart if door thickness is over 20 mm.

■O.C. (A)

Door Thickness (D) \ Door Width	300	400	500
15	0.7	0.5	0.5
20	0.7	0.5	0.5
22	0.7	0.5	0.5
	O.C. (A)		

■Cut Out Dimensions



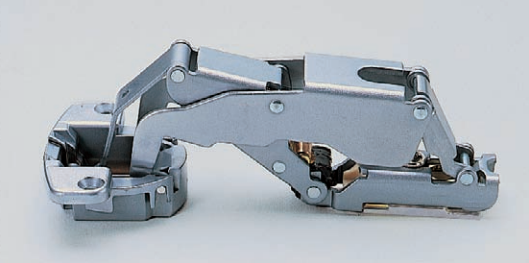
●Recommended screw

Size 3.5 raised countersunk head tapping screw or wood screw.

■Door Dimensions and Number of Hinges

Please refer to P.394.

160° Opening | **28 mm Overlay** | Overlay 19 - 28 mm | Cup Dia Ø 40 Bore Depth 15 mm Door Thickness 18 - 34 mm | Mounting Plate 100 Series (P.389-392)



Picture above is the combination of concealed hinge and mounting plate.

CONCEALED HINGE H160

Item Code	Item Name	Type	Material	Finish	Weight	Carton
160-073-620	H160-34/28	w/o Catch	Body/Steel, Cup/Zinc Alloy (ZDC)	Chrome	182 g	100 pcs
160-073-630	H160-C34/28	w/ Catch	Body/Steel, Cup/Zinc Alloy (ZDC)	Chrome	195 g	100 pcs

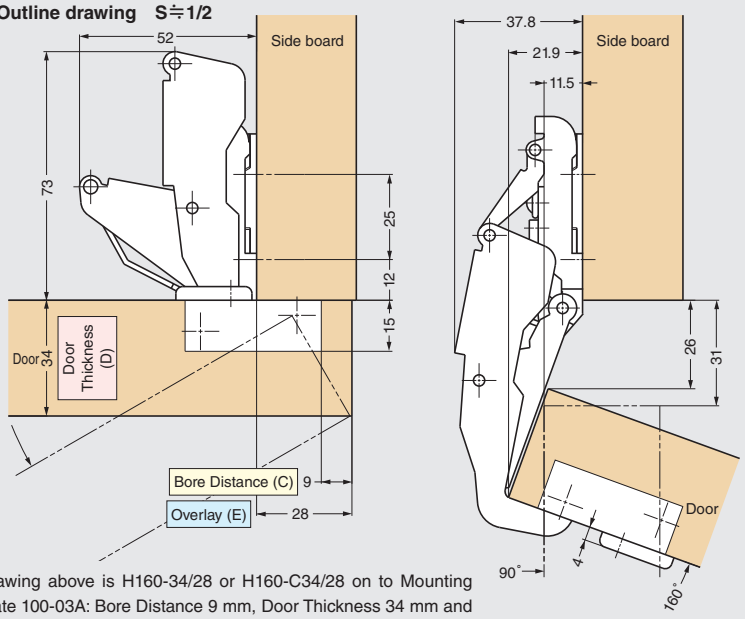
■Features

Screw mount.

■Sold Separately

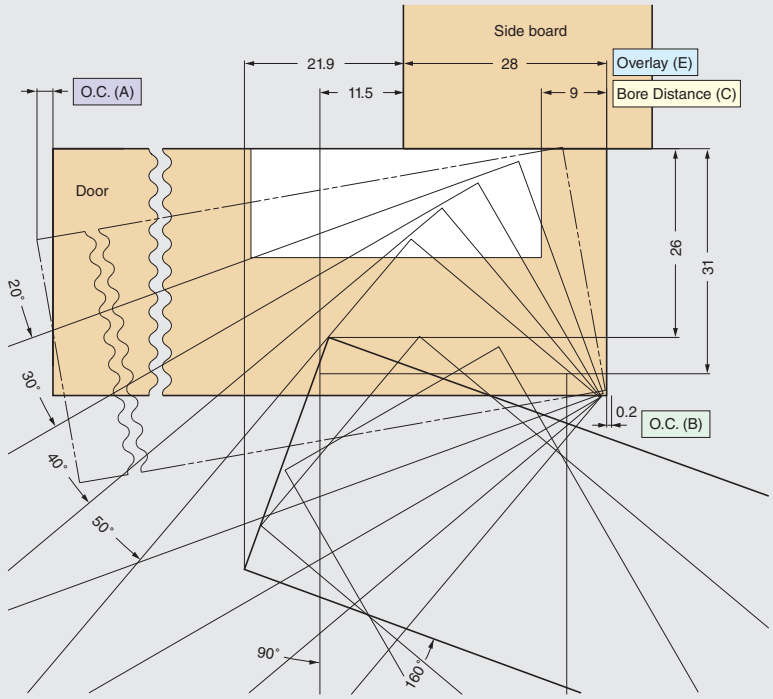
100 series mounting plate (P.389-392).

●Outline drawing S≒1/2



Drawing above is H160-34/28 or H160-C34/28 on to Mounting Plate 100-03A: Bore Distance 9 mm, Door Thickness 34 mm and 28 mm Overlay.

●Locus chart S≒1/1



Drawing above is Bore Distance 9 mm, Door Thickness 34 mm, Side Board Thickness 34 mm and 28 mm Overlay.

■Bore Distance (C)

Bore Distance (C)	3	4	5	6	7	8	9
Overlay (E)	22	23	24	25	26	27	28

For standard type mounting plate 0 mm thickness.
Turning the overlay adjustment screw or using distance plate (2 mm thickness) to adjust overlay (Max. - 3 mm).

■Opening Clearance (O.C.)

Clearances for door edge O.C. (A) and hinge side O.C. (B) are necessary. O.C. (A) and (B) change depending on door thickness and bore distance (C). Refer to locus chart and tables below when designing cabinets.

■O.C. (B)

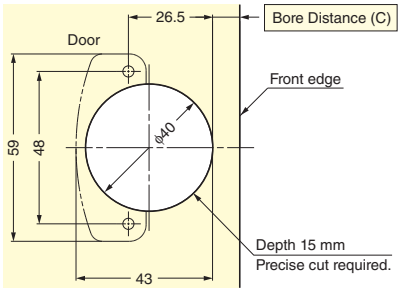
Door Thickness (D)	Bore Distance (C) 3	4	5	6	7	8	9
Max. 33	Max. 0.1						
34	0.2	0.2	0.2	0.2	0.2	0.2	0.2
35	0.3	0.3	0.3	0.3	0.3	0.3	0.3
36	2.0	1.6	1.5	1.4	1.0	0.7	0.5
37	3.7	3.1	2.7	2.4	2.0	1.4	0.9
38	5.0	4.4	3.8	3.3	2.8	2.2	1.7
39	6.2	5.4	4.9	4.3	3.7	3.0	2.6
40	7.2	6.4	5.7	5.3	4.6	3.9	3.4
	O.C. (B)						

Please refer to the locus chart if door thickness is over 34 mm.

■O.C. (A)

Door Thickness (D) \ Door Width	300	400	500	600
20	1.6	1.1	1.0	0.9
30	2.2	1.4	1.1	1.0
34	2.2	1.5	1.1	1.0
	O.C. (A)			

■Cut Out Dimensions



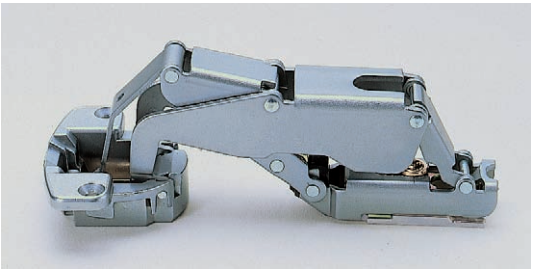
●Recommended screw

Size 3.5 raised countersunk head tapping screw or wood screw.

■Door Dimensions and Number of Hinges

Please refer to P.394.

160° Opening | **23 mm Overlay** | Overlay 14 - 23 mm | Cup Dia Ø 40 Bore Depth 15 mm, Door Thickness 18 - 34 mm | Mounting Plate 100 Series (P.389-392)



Picture above is the combination of concealed hinge and mounting plate.

CONCEALED HINGE H160

Item Code	Item Name	Type	Material	Finish	Weight	Carton
160-073-621	H160-34/23	w/o Catch	Body/Steel, Cup/Zinc Alloy (ZDC)	Chrome	186 g	100 pcs
160-073-631	H160-C34/23	w/ Catch	Body/Steel, Cup/Zinc Alloy (ZDC)	Chrome	200 g	100 pcs

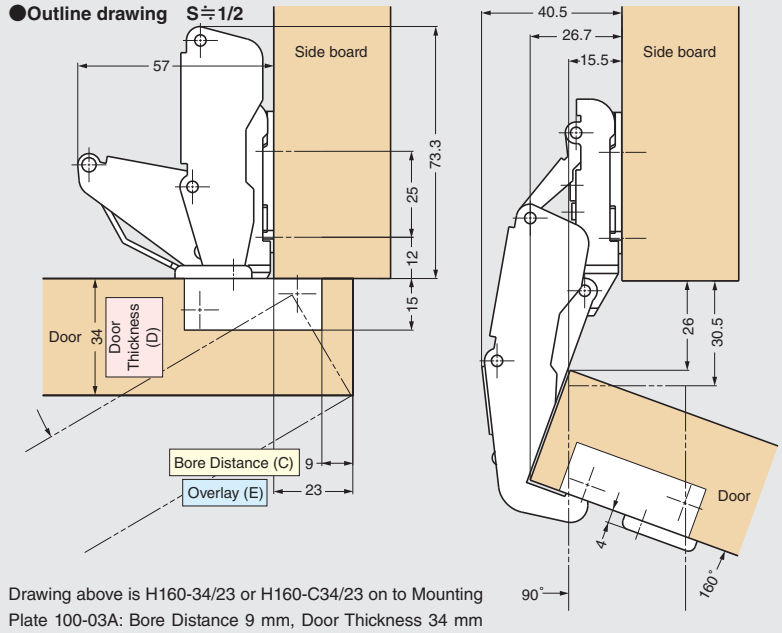
■Features

Screw mount.

■Sold Separately

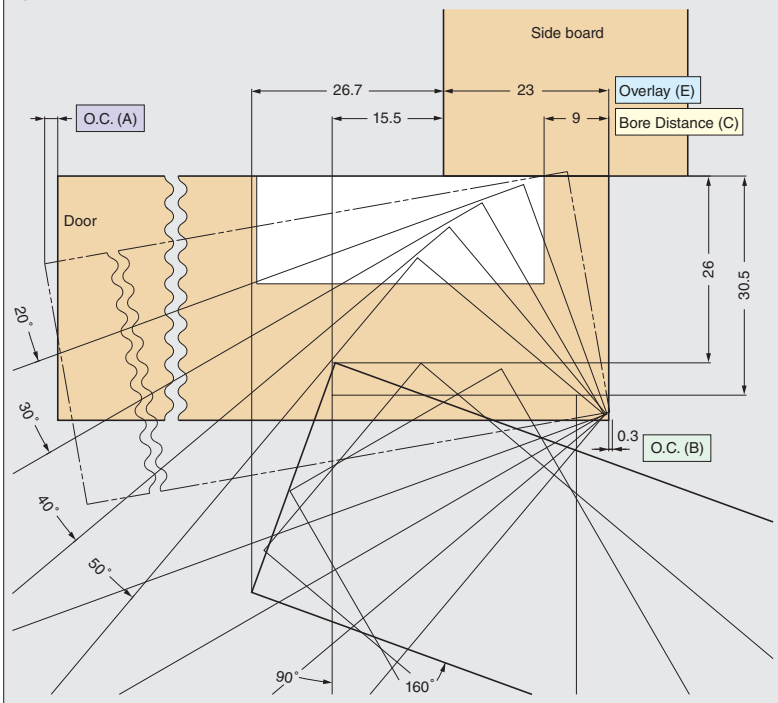
100 series mounting plate (P.389-392).

●Outline drawing S≒1/2



Drawing above is H160-34/23 or H160-C34/23 on to Mounting Plate 100-03A: Bore Distance 9 mm, Door Thickness 34 mm and 23 mm Overlay.

●Locus chart S≒1/1



Drawing above is Bore Distance 9 mm, Door Thickness 34 mm, Side Board Thickness 34 mm and 23 mm Overlay.

■Bore Distance (C)

Bore Distance (C)	3	4	5	6	7	8	9
Overlay (E)	17	18	19	20	21	22	23

For standard type mounting plate 0 mm thickness.
Turning the overlay adjustment screw or using distance plate (2 mm thickness) to adjust overlay (Max. - 3 mm).

■Opening Clearance (O.C.)

Clearances for door edge O.C. (A) and hinge side O.C. (B) are necessary. O.C. (A) and (B) change depending on door thickness and bore distance (C). Refer to locus chart and tables below when designing cabinets.

■O.C. (B)

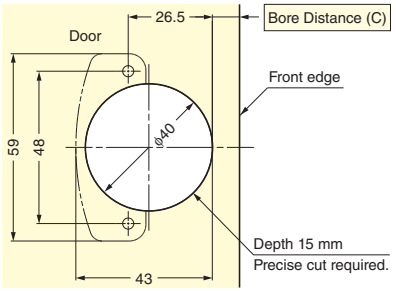
Door Thickness (D)	Bore Distance (C) 3	4	5	6	7	8	9
Max. 33	Max. 0.2						
34	0.3	0.3	0.3	0.3	0.3	0.3	0.3
35	0.7	0.7	0.7	0.7	0.7	0.6	0.5
36	3.2	3.0	2.7	2.3	1.6	1.3	0.9
37	5.0	4.4	3.8	3.2	2.6	2.1	1.6
38	6.2	5.5	4.8	4.2	3.5	2.9	2.4
39	7.2	6.4	5.7	5.1	4.4	3.9	3.3
40	8.3	7.3	6.6	6.0	5.4	4.7	4.2
	O.C. (B)						

Please refer to the locus chart if door thickness is over 34 mm.

■O.C. (A)

Door Thickness (D) \ Door Width	300	400	500	600
20	1.4	1.1	0.8	0.7
30	1.8	1.3	1.0	0.8
34	1.8	1.3	1.0	0.8
	O.C. (A)			

■Cut Out Dimensions



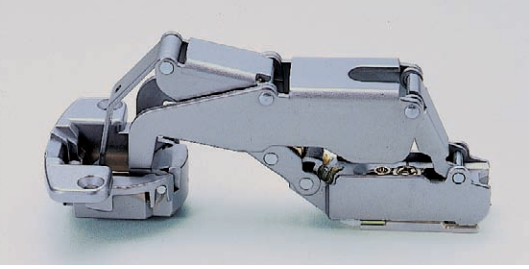
●Recommended screw

Size 3.5 raised countersunk head tapping screw or wood screw.

■Door Dimensions and Number of Hinges

Please refer to P.394.

160° Opening | **18 mm Overlay** | Overlay 9 - 18 mm | Cup Dia Ø 40 Bore Depth 15 mm Door Thickness 18 - 34 mm | Mounting Plate 100 Series (P.389-392)



Picture above is the combination of concealed hinge and mounting plate.

CONCEALED HINGE H160

Item Code	Item Name	Type	Material	Finish	Weight	Carton
160-073-622	H160-34/18	w/o Catch	Zinc Alloy (ZDC)	Chrome	193 g	100 pcs
160-073-632	H160-C34/18	w/ Catch	Zinc Alloy (ZDC)	Chrome	205 g	100 pcs

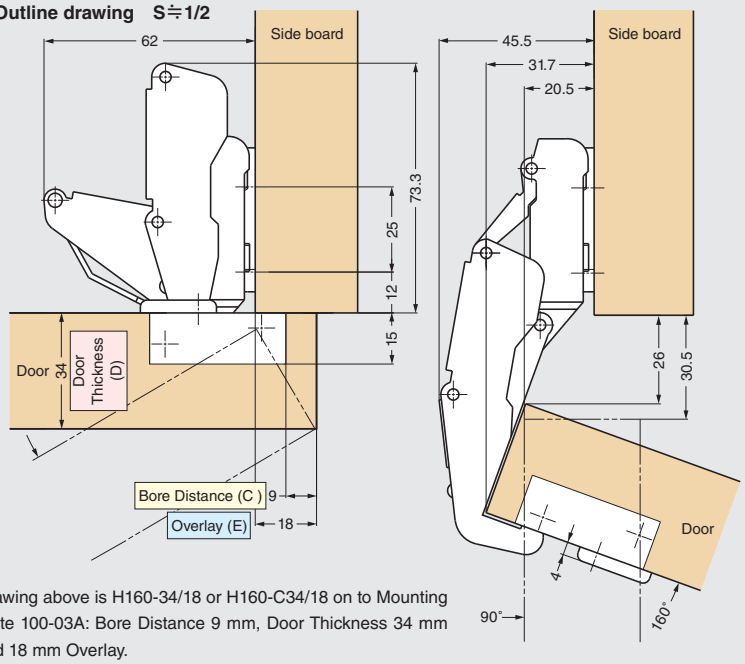
■Features

Screw mount.

■Sold Separately

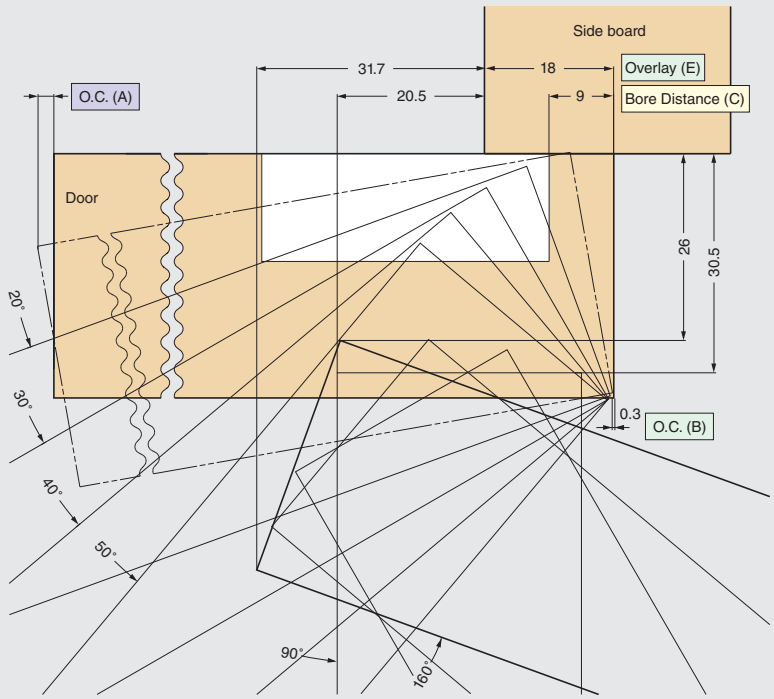
100 series mounting plate (P.389-392).

●Outline drawing S≒1/2



Drawing above is H160-34/18 or H160-C34/18 on to Mounting Plate 100-03A: Bore Distance 9 mm, Door Thickness 34 mm and 18 mm Overlay.

●Locus chart S≒1/1



Drawing above is Bore Distance 9 mm, Door Thickness 34 mm, Side Board Thickness 34 mm and 18 mm Overlay.

■Bore Distance (C)

Bore Distance (C)	3	4	5	6	7	8	9
Overlay (E)	12	13	14	15	16	17	18

For standard type mounting plate 0 mm thickness.
Turning the overlay adjustment screw or using distance plate (2 mm thickness) to adjust overlay (Max. - 3 mm).

■Opening Clearance (O.C.)

Clearances for door edge O.C. (A) and hinge side O.C. (B) are necessary. O.C. (A) and (B) change depending on door thickness and bore distance (C). Refer to locus chart and tables below when designing cabinets.

■O.C. (B)

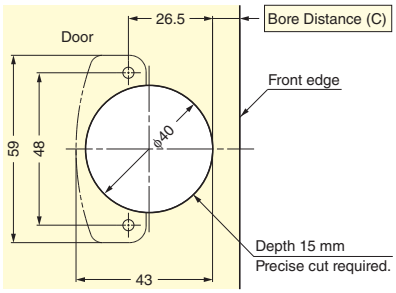
Door Thickness (D)	Bore Distance (C)						
	3	4	5	6	7	8	9
Max. 33	Max. 0.2						
34	0.3	0.3	0.3	0.3	0.3	0.3	0.3
35	0.7	0.7	0.7	0.7	0.7	0.6	0.5
36	3.2	3.0	2.7	2.3	1.6	1.3	0.9
37	5.0	4.4	3.8	3.2	2.6	2.1	1.6
38	6.2	5.5	4.8	4.2	3.5	2.9	2.4
39	7.2	6.4	5.7	5.1	4.4	3.9	3.3
40	8.3	7.3	6.6	6.0	5.4	4.7	4.2
	O.C. (B)						

Please refer to the locus chart if door thickness is over 34 mm.

■O.C. (A)

Door Thickness (D) \ Door Width	300	400	500	600
20	1.4	1.1	0.8	0.7
30	1.8	1.3	1.0	0.8
34	1.8	1.3	1.0	0.8
	O.C. (A)			

■Cut Out Dimensions



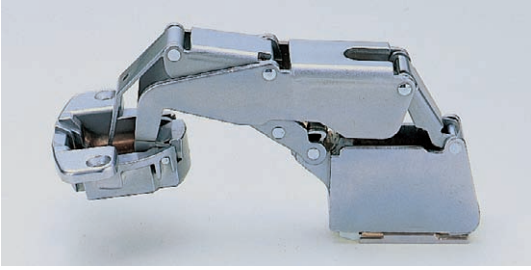
●Recommended screw

Size 3.5 raised countersunk head tapping screw or wood screw.

■Door Dimensions and Number of Hinges

Please refer to P.394.

160° Opening | **Inset** | **Cup Dia Ø 40 Bore Depth 15 mm Door Thickness 18 - 34 mm** | **Mounting Plate 100 Series (P.389-392)**



Picture above is the combination of concealed hinge and mounting plate.

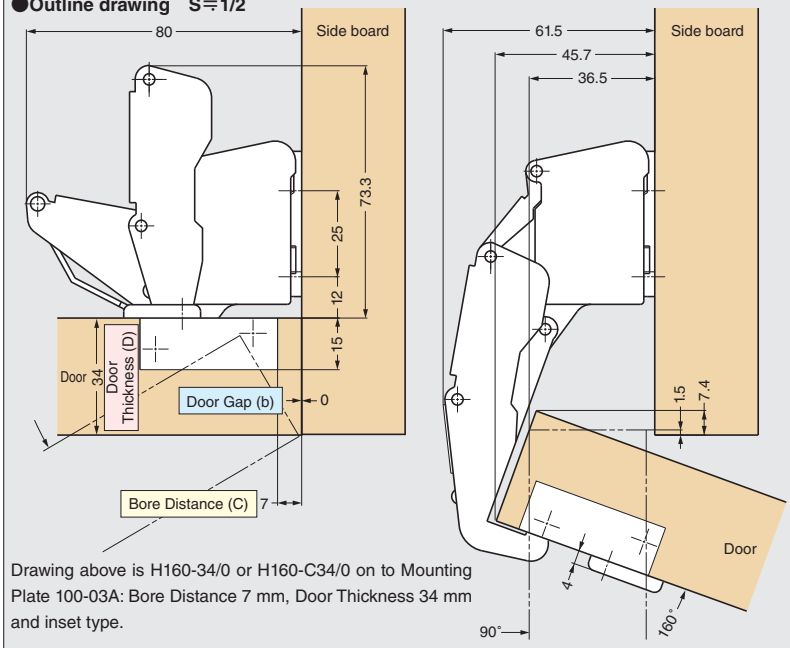
CONCEALED HINGE H160

Item Code	Item Name	Type	Material	Finish	Weight	Carton
160-073-623	H160-34/0	w/o Catch	Zinc Alloy (ZDC)	Chrome	234 g	100 pcs
160-073-633	H160-C34/0	w/ Catch	Zinc Alloy (ZDC)	Chrome	242 g	100 pcs

■Option

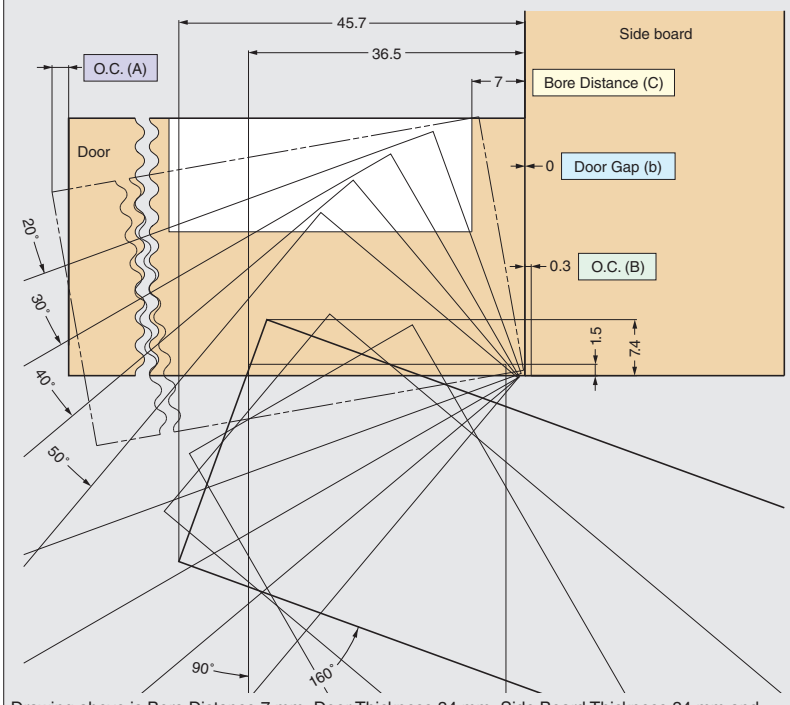
100 series mounting plate (P.389-392).

●Outline drawing S≒1/2



Drawing above is H160-34/0 or H160-C34/0 on to Mounting Plate 100-03A: Bore Distance 7 mm, Door Thickness 34 mm and inset type.

●Locus chart S≒1/1



Drawing above is Bore Distance 7 mm, Door Thickness 34 mm, Side Board Thickness 34 mm and inset type.

■Bore Distance (C)

Bore Distance (C)	3	4	5	6	7
Door Gap (b)	4	3	2	1	0

For standard type mounting plate 0 mm thickness.
Turning the overlay adjustment screw or using distance plate (2 mm thickness) to adjust overlay (Max. - 3 mm).

■Opening Clearance (O.C.)

Clearances for door edge O.C. (A) and hinge side O.C. (B) are necessary. O.C. (A) and (B) change depending on door thickness and bore distance (C). Refer to locus chart and tables below when designing cabinets.

■O.C. (B)

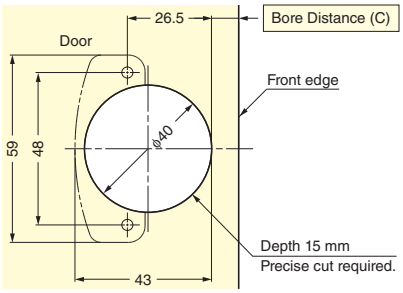
Door Thickness (D)	Bore Distance (C) 3	4	5	6	7
Max. 30	Max. 0.1				
31	0.1	0.1	0.1	0.1	0.1
32	0.2	0.2	0.2	0.2	0.2
33	0.2	0.2	0.2	0.2	0.2
34	0.3	0.3	0.3	0.3	0.3
35	0.9	0.9	0.9	0.8	0.8
36	3.4	3.1	2.8	2.2	1.6
	O.C. (B)				

Please refer to the locus chart if door thickness is over 34 mm.

■O.C. (A)

Door Thickness (D) \ Door Width	300	400	500	600
20	1.4	1.1	0.8	0.7
30	1.7	1.3	1.0	0.8
34	1.7	1.3	1.0	0.8
	O.C. (A)			

■Cut Out Dimensions



●Recommended screw

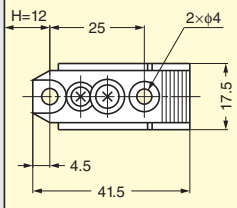
Size 3.5 raised countersunk head tapping screw or wood screw.

■Door Dimensions and Number of Hinges

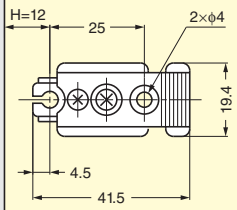
Please refer to P.394.

MOUNTING PLATE 100 SERIES

STANDARD TYPE



●100-01 100-03
●100-03A



●100-P3A

Value of H: Door thickness + 17 mm in use of INSET type (Door thickness + 12 mm in use of INSET type of H160 or 170 hinge).



100-01

■Features

Standard height: 0 mm

■Recommended Screw

Size 3.5 tapping screw or wood screw (do not use flat head screws).

Item Code	Item Name	Material	Colour	Weight	Carton
160-074-070	100-01	Polyamide (PA)	Ivory	7 g	800 pcs



100-03

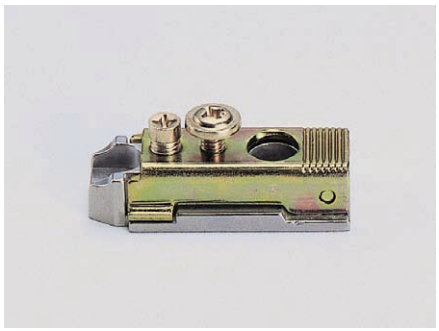
■Features

Standard height: 0 mm

■Recommended Screw

Size 3.5 tapping screw or wood screw (do not use flat head screws).

Item Code	Item Name	Material	Finish	Weight	Carton
160-074-079	100-03	Zinc Alloy (ZDC)	Chrome	22 g	800 pcs



100-03A

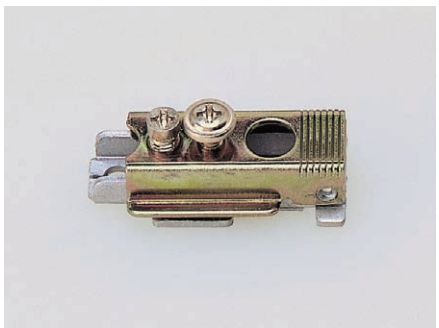
■Features

●Overlay adjustable.
●Standard height: 0 mm

■Recommended Screw

Size 3.5 tapping screw or wood screw (do not use flat head screws).

Item Code	Item Name	Material	Finish	Weight	Carton
160-074-083	100-03A	Zinc Alloy (ZDC)/Steel	Nickel/Yellow Zinc Chromate	28 g	800 pcs



100-P3A

■Features

●Overlay adjustable.
●Standard height: 0 mm

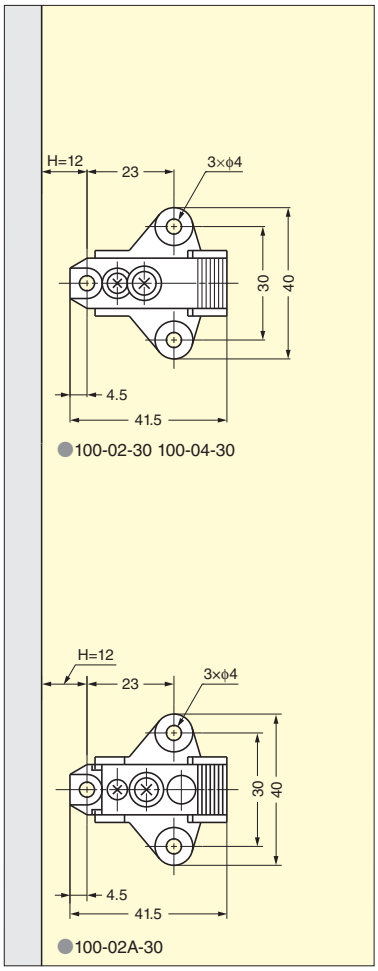
■Recommended Screw

Size 3.5 tapping screw or wood screw (do not use flat head screws).

Item Code	Item Name	Material	Finish	Weight	Carton
160-074-244	100-P3A	Steel	Chrome/Yellow Zinc Chromate	22 g	800 pcs

MOUNTING PLATE 100 SERIES

SYSTEM 30 TYPE





100-02-30

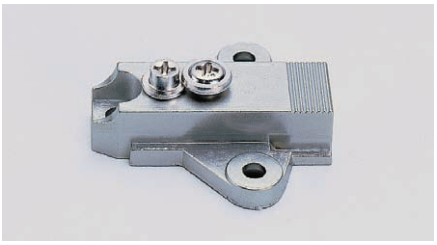
Features

Standard height: 0 mm

Recommended Screw

Size 3.5 tapping screw or wood screw (do not use flat head screws).

Item Code	Item Name	Material	Colour	Weight	Carton
160-074-071	100-02-30	Polyamide (PA)	Ivory	8 g	400 pcs



100-04-30

Features

Standard height: 0 mm

Recommended Screw

Size 3.5 tapping screw or wood screw (do not use flat head screws).

Item Code	Item Name	Material	Finish	Weight	Carton
160-074-085	100-04-30	Zinc Alloy (ZDC)	Chrome	29 g	400 pcs



100-02A-30

Features

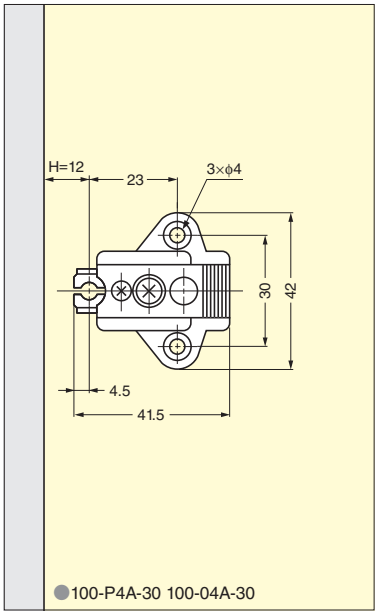
- Overlay adjustable.
- Standard height: 0 mm

Recommended Screw

Size 3.5 tapping screw or wood screw (do not use flat head screws).

Item Code	Item Name	Material	Finish/Colour	Weight	Carton
160-074-074	100-02A-30	Polyamide (PA)/Steel	Ivory/Yellow Zinc Chromate	17 g	400 pcs

SYSTEM 30 TYPE



Value of H: Door thickness + 17 mm in use of INSET type (Door thickness + 12 mm in use of INSET type of H160 or 170 hinge).



100-04A-30

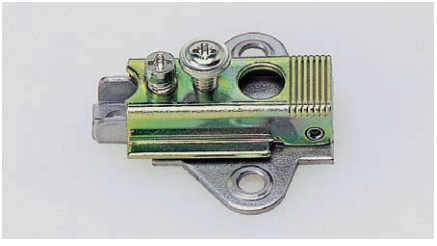
Features

- Overlay adjustable.
- Standard height: 0 mm

Recommended Screw

Size 3.5 tapping screw or wood screw (do not use flat head screws).

Item Code	Item Name	Material	Finish	Weight	Carton
160-074-087	100-04A-30	Zinc Alloy (ZDC)/Steel	Chrome/Yellow Zinc Chromate	43 g	400 pcs



100-P4A-30

Features

- Overlay adjustable.
- Standard height: 0 mm

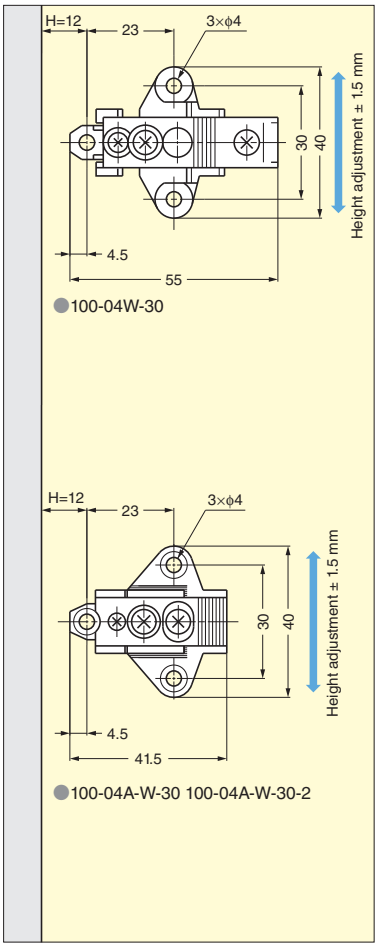
Recommended Screw

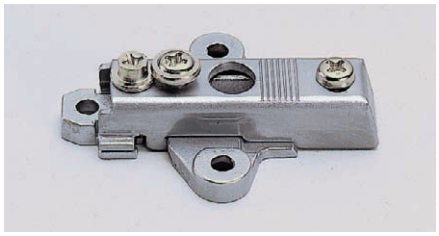
Size 3.5 tapping screw or wood screw (do not use flat head screws).

Item Code	Item Name	Material	Finish	Weight	Carton
160-074-161	100-P4A-30	Steel	Chrome/Yellow Zinc Chromate	27 g	400 pcs

MOUNTING PLATE 100 SERIES

SYSTEM 30 TYPE





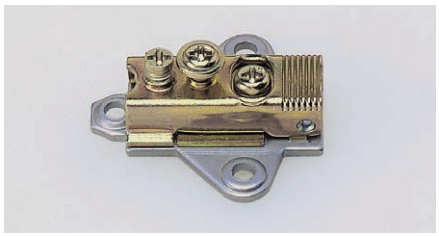
100-04W-30

Features
- Height adjustable.
- Standard height: 0 mm

Recommended Screw

Size 3.5 tapping screw or wood screw (do not use flat head screws).

Item Code	Item Name	Material	Finish	Weight	Carton
160-074-095	100-04W-30	Zinc Alloy (ZDC)/Steel	Chrome	35 g	800 pcs



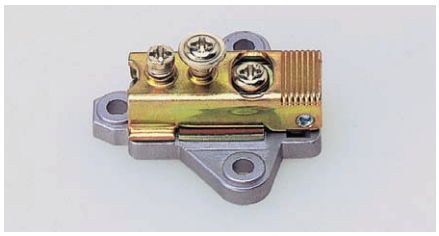
100-04A-W-30

Features
- Overlay and height adjustable.
- Standard height: 0 mm

Recommended Screw

Size 3.5 tapping screw or wood screw (do not use flat head screws).

Item Code	Item Name	Material	Finish	Weight	Carton
160-074-115	100-04A-W-30	Steel	Chrome/Yellow Zinc Chromate	32 g	800 pcs



100-04A-W-30-2

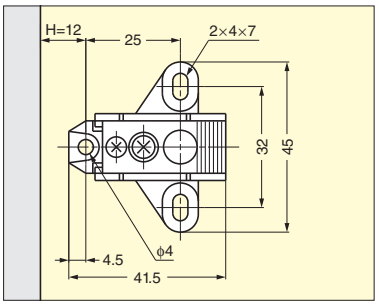
Features
- Overlay and height adjustable.
- Height: 2 mm

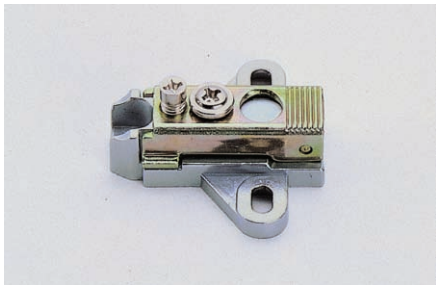
Recommended Screw

Size 3.5 tapping screw or wood screw (do not use flat head screws).

Item Code	Item Name	Material	Finish	Weight	Carton
160-074-158	100-04A-W-30-2	Zinc Alloy (ZDC)/Steel	Chrome/Yellow Zinc Chromate	35 g	800 pcs

SYSTEM 32 TYPE





100-04A-32-3

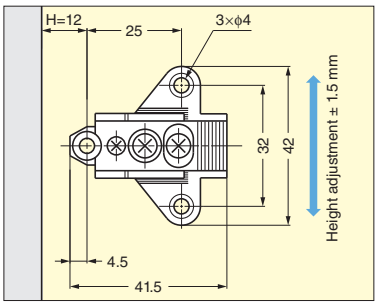
Features
- Overlay adjustable.
- Standard height: 3 mm

Recommended Screw

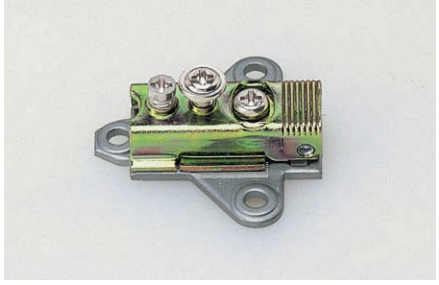
Size 3.5 tapping screw or wood screw (do not use flat head screws).

Item Code	Item Name	Material	Finish	Weight	Carton
160-074-089	100-04A-32-3	Zinc Alloy (ZDC)/Steel	Chrome/Yellow Zinc Chromate	37 g	400 pcs

SYSTEM 32 TYPE



Value of H: Door thickness + 17 mm in use of INSET type (Door thickness + 12 mm in use of INSET type of H160 or 170 hinge).



100-04A-W-32

Features
- Overlay and height adjustable.
- Standard height: 0 mm

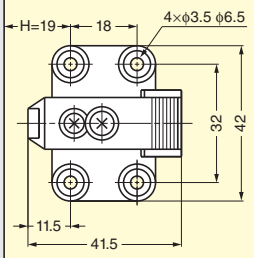
Recommended Screw

Size 3.5 tapping screw or wood screw (do not use flat head screws).

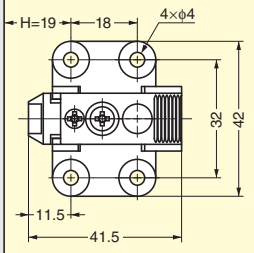
Item Code	Item Name	Material	Finish	Weight	Carton
160-074-116	100-04A-W-32	Steel	Chrome/Yellow Zinc Chromate	33 g	400 pcs

MOUNTING PLATE 100 SERIES

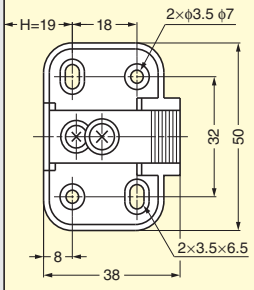
SYSTEM 32 TYPE



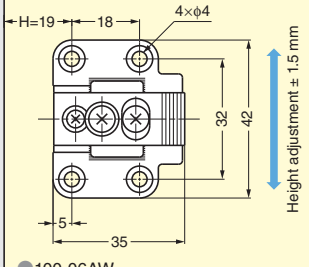
●100-06



●100-06A

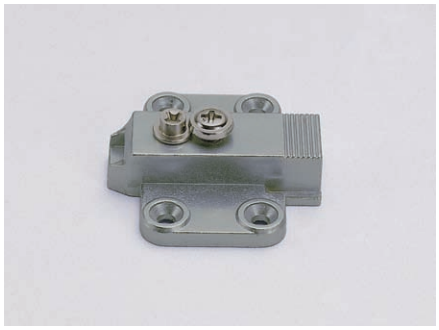


●100-P6



●100-06AW

Value of H: Door thickness + 17 mm in use of INSET type (Door thickness + 12 mm in use of INSET type of H160 or 170 hinge).



100-06

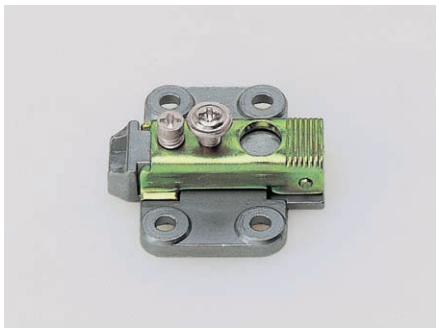
■**Features**

Standard height: 0 mm

■**Recommended Screw**

Size 3.5 tapping screw or wood screw (do not use flat head screws).

Item Code	Item Name	Material	Finish	Weight	Carton
160-074-110	100-06	Zinc Alloy (ZDC)	Chrome	29 g	400 pcs



100-06A

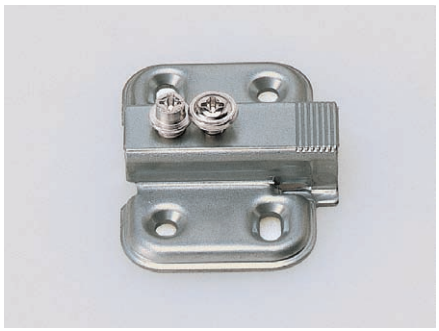
■**Features**

●Overlay adjustable.
●Standard height: 0 mm

■**Recommended Screw**

Size 3.5 tapping screw or wood screw (do not use flat head screws).

Item Code	Item Name	Material	Finish	Weight	Carton
160-074-111	100-06A	Zinc Alloy (ZDC)/Steel	Chrome/Yellow Zinc Chromate	36 g	400 pcs



100-P6

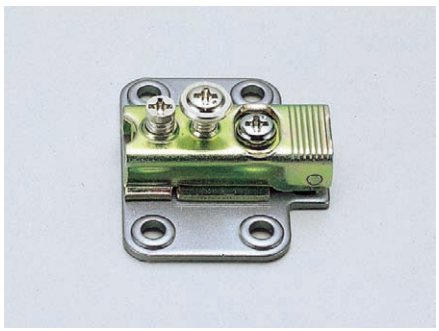
■**Features**

Standard height: 0 mm

■**Recommended Screw**

Size 3.5 tapping screw or wood screw (do not use flat head screws).

Item Code	Item Name	Material	Finish	Weight	Carton
160-074-160	100-P6	Steel	Chrome	23 g	400 pcs



100-06AW

■**Features**

●Overlay and height adjustable.
●Standard height: 0 mm

■**Recommended Screw**

Size 3.5 tapping screw or wood screw (do not use flat head screws).

Item Code	Item Name	Material	Finish	Weight	Carton
160-074-171	100-06AW	Steel	Chrome/Yellow Zinc Chromate	37 g	400 pcs

SPACER FOR 100 SERIES MOUNTING PLATE



100-DP2

■Features

Used to make overlay 2 mm smaller.

Use with the following mounting plates:

100-01 100-03
100-03A 100-P3A
100-P3A-SUS304B

Item Code	Item Name	Material	Colour	Weight	Box	Carton
160-074-100	100-DP2	Polyamide (PA)	Ivory	2 g	800 pcs	3200 pcs



100-DP2-30

■Features

Used to make overlay 2 mm smaller.

Use with the following mounting plates:

100-02-30 100-02A-30
100-04-30 100-04A-30
100-04W-30 100-P4A-30
100-04A-W-30 100-04A-W-30-2
100-P4A-30-SUS304B

Item Code	Item Name	Material	Colour	Weight	Box	Carton
160-074-105	100-DP2-30	Polyamide (PA)	Ivory	2 g	800 pcs	3200 pcs



100-DP2-32

■Features

Used to make overlay 2 mm smaller.

Use with the following mounting plates:

100-04A-32-3 100-04A-W-32
100-P4A-32-SUS304B

Item Code	Item Name	Material	Colour	Weight	Box	Carton
160-074-107	100-DP2-32	Polyamide (PA)	Ivory	2 g	800 pcs	3200 pcs



100-DP2-06

■Features

Used to make overlay 2 mm smaller.

Use with the following mounting plates:

100-06 100-06AW
100-06A

Item Code	Item Name	Material	Colour	Weight	Box	Carton
160-074-145	100-DP2-06	Polyamide (PA)	Ivory	3 g	800 pcs	3200 pcs

JIG FOR 100 SERIES MOUNTING PLATE



JIG-100

Item Code	Item Name	Box	Carton
160-074-109	JIG-100	50 pcs	500 pcs

Cannot be used with the following mounting plates:

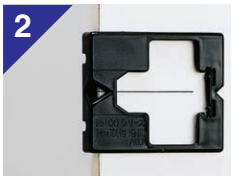
100-P3A 100-P4A-30 100-04W-30
100-06 100-06A 100-P6
100-06AW

(Cannot be used for inset type plates.)

■Installation:



Draw a line where you want to install the mounting plate.



Use the jig to aligne the V shpe with the line.



Insert the mounting plate into the jig for correct installation position.



Hold the jig while fixing the mounting plate with a screw.

■Other Examples:



Can also be used with mounting plates designed for System 30 and 32.



Mark the holes for easy installation.

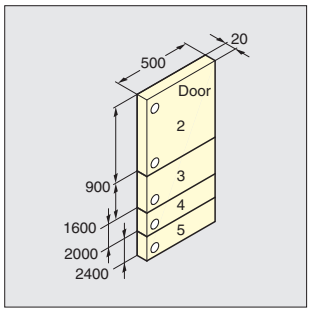


Attach the jig to a bar when installing several mounting plates at the same time.

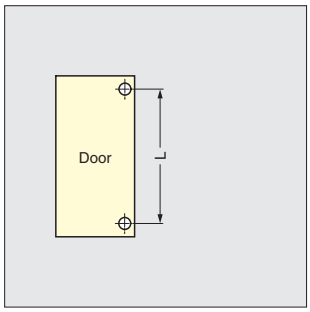


The bar will help you decide the correct distance between the plates.

RECOMMENDED NUMBER OF HINGES PER DOOR



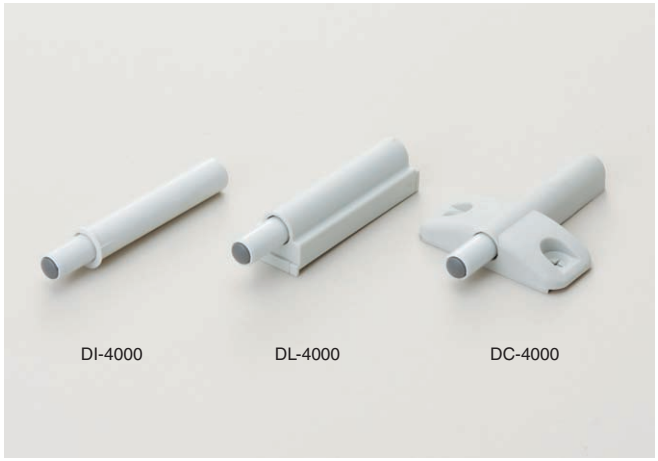
This chart can serve as a guide for determing the number of hinges per door.



L: The distance between the top and bottom hinges must be greater than the width of the door.

CABINET DAMPER

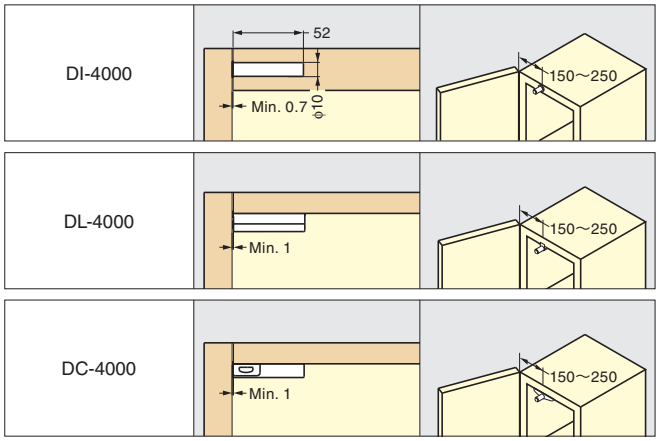
DI-4000, DL-4000, DC-4000

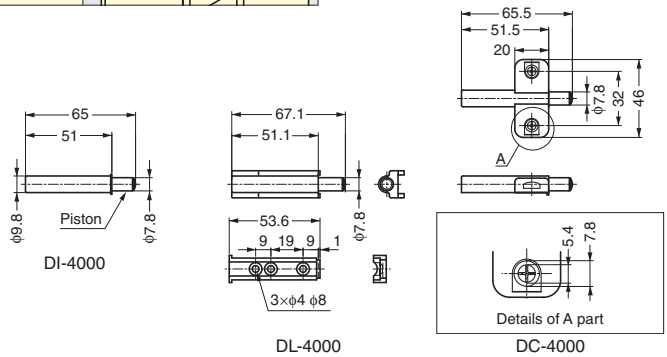


■Features

- Damper for overlay swing door which absorbs the impact when closing.
- Top mounting type
- Please use it with concealed hinge with catch. (Refer to P.362～367 on INDEX)
- Recommended door size: W300～500×Max.: H800×t18 mm (3～5 kg)

■Installation





Item Code	Item Name	Material	Colour	Weight	Box	Carton
210-030-319	DI-4000	Polyamide (PA)	White	6 g	500 pcs	1000 pcs
210-030-320	DL-4000	Polyamide (PA)	White	12 g	250 pcs	500 pcs
210-030-318	DC-4000	Polyamide (PA)	White	9 g	250 pcs	500 pcs

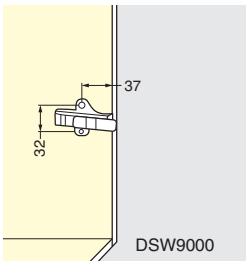
CABINET DAMPER DSW

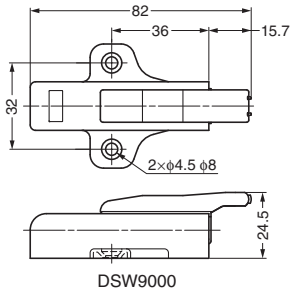


■Features

- Enables soft-close for swing doors.
- For full overlay.

■Installation





Item Code	Item Name	Material	Finish/Colour	Weight	Box
210-031-051	DSW9000	Zinc Alloy (ZDC)	Paint, Grey	49 g	200 pcs

CABINET DAMPER DS



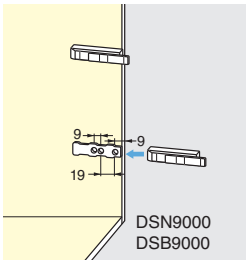
■Features

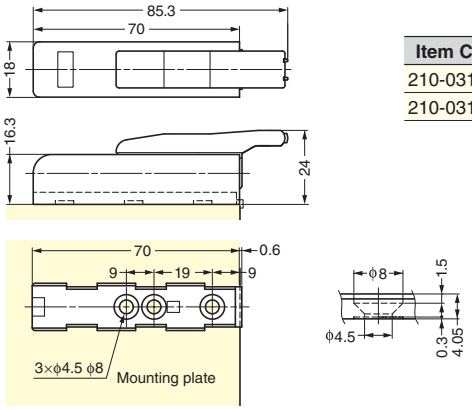
- Enables soft-close for swing doors.
- For full overlay.
- Can be used with ACC-DAM to support half overlay and inset type doors.

■Options

Support plate ACC-DAM (Below)

■Installation





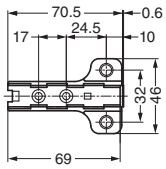
DSN9000, DSB9000

Item Code	Item Name	Material	Finish/Colour	Weight	Box
210-031-053	DSN9000	ABS	Paint, Grey	18 g	200 pcs
210-031-052	DSB9000	ABS	Black	20 g	200 pcs

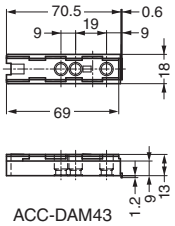
■Options

Support Plate ACC-DAM

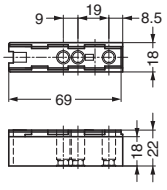




ACC-DAM40



ACC-DAM43



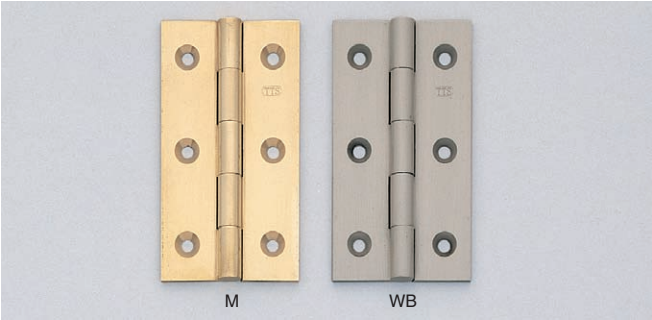
ACC-DAM44

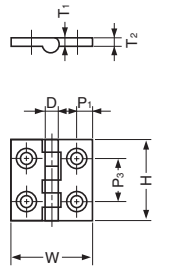
Item Code	Item Name	Door Type	Material	Colour	Weight	Box
210-011-287	ACC-DAM40	Full Overlay	ABS	Silver	7 g	300 pcs
210-011-288	ACC-DAM43	Half Overlay	ABS	Silver	7 g	300 pcs
210-011-877	ACC-DAM43-BLACK	Half Overlay	ABS	Black	7 g	300 pcs
210-011-289	ACC-DAM44	Inset	ABS	Silver	10 g	200 pcs

BUTT HINGE

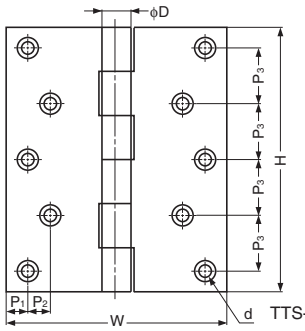
L=R

TTS-100 SERIES





TTS-101～106



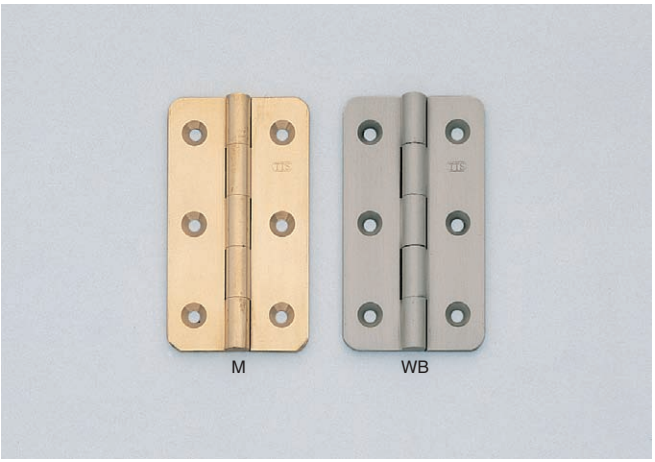
TTS-107～109

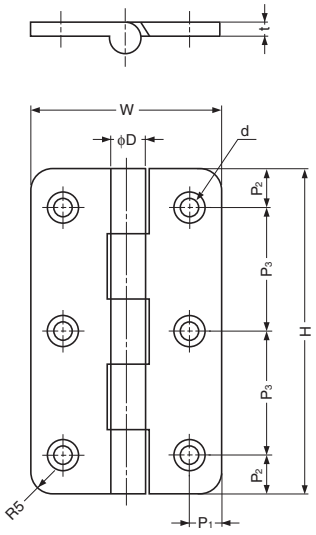
Item Code	Item Name	Finish	Material	H	W	T_1	T_2	D	P_1	P_2	P_3	d	Weight	Box
170-090-144	TTS-101M	Polished	Brass	25	27	2	1.8	4.5	5	—	14	4×ϕ3	11 g	100 pcs
170-090-130	TTS-101WB	Satin Nickel	Brass	25	27	2	1.8	4.5	5	—	14	4×ϕ3	11 g	100 pcs
170-090-145	TTS-102M	Polished	Brass	32	27	2	1.8	4.5	5	—	19	4×ϕ3	15 g	100 pcs
170-090-131	TTS-102WB	Satin Nickel	Brass	32	27	2	1.8	4.5	5	—	19	4×ϕ3	15 g	100 pcs
170-090-146	TTS-103M	Polished	Brass	38	27	2	1.8	4.5	5	—	13	6×ϕ3	20 g	100 pcs
170-090-132	TTS-103WB	Satin Nickel	Brass	38	27	2	1.8	4.5	5	—	13	6×ϕ3	20 g	100 pcs
170-090-147	TTS-104M	Polished	Brass	50	32	2.2	2.1	5.2	6	—	18	6×ϕ3.5	30 g	100 pcs
170-090-133	TTS-104WB	Satin Nickel	Brass	50	32	2.2	2.1	5.2	6	—	18	6×ϕ3.5	30 g	100 pcs
170-090-148	TTS-105M	Polished	Brass	65	38	2.4	2.3	6.1	7	—	25	6×ϕ3.6	54 g	50 pcs
170-090-134	TTS-105WB	Satin Nickel	Brass	65	38	2.4	2.3	6.1	7	—	25	6×ϕ3.6	54 g	50 pcs
170-090-149	TTS-106M	Polished	Brass	75	42	2.6	2.5	7.1	8	—	27	6×ϕ3.8	77 g	50 pcs
170-090-135	TTS-106WB	Satin Nickel	Brass	75	42	2.6	2.5	7.1	8	—	27	6×ϕ3.8	77 g	50 pcs
170-090-150	TTS-107M	Polished	Brass	90	56	3.2	2.8	8	7	5	24.6	8×ϕ4.1	146 g	10 pcs
170-090-136	TTS-107WB	Satin Nickel	Brass	90	56	3.2	2.8	8	7	5	24.6	8×ϕ4.1	146 g	10 pcs
170-090-151	TTS-108M	Polished	Brass	100	68	3.5	3	8.5	9	6	26	8×ϕ4.5	206 g	10 pcs
170-090-137	TTS-108WB	Satin Nickel	Brass	100	68	3.5	3	8.5	9	6	26	8×ϕ4.5	206 g	10 pcs
170-090-152	TTS-109M	Polished	Brass	125	82	4.2	3.7	10	10	10	26.3	10×ϕ5.1	370 g	10 pcs
170-090-138	TTS-109WB	Satin Nickel	Brass	125	82	4.2	3.7	10	10	10	26.3	10×ϕ5.1	370 g	10 pcs

BUTT HINGE

L=R

TTS-800 SERIES



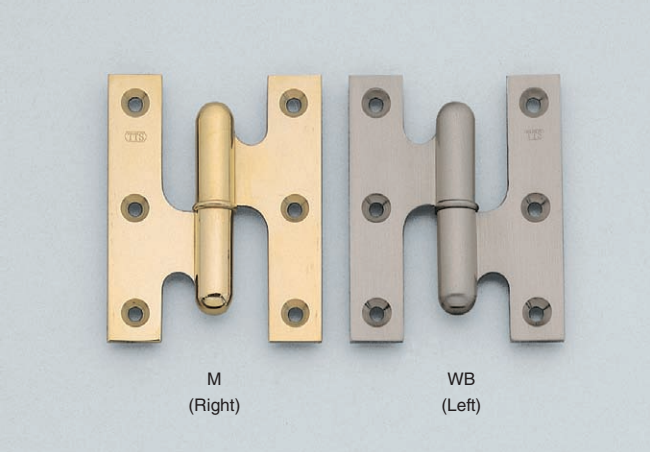


Item Code	Item Name	Finish	Material	H	W	t	D	P_1	P_2	P_3	d	Weight	Box
170-090-174	TTS-801M	Polished	Brass	38	27	1.9	4.5	5	6	13	6×ϕ3	17 g	100 pcs
170-090-170	TTS-801WB	Satin Nickel	Brass	38	27	1.9	4.5	5	6	13	6×ϕ3	17 g	100 pcs
170-090-175	TTS-802M	Polished	Brass	50	32	2.3	5.2	6	7	18	6×ϕ3.5	31 g	100 pcs
170-090-171	TTS-802WB	Satin Nickel	Brass	50	32	2.3	5.2	6	7	18	6×ϕ3.5	31 g	100 pcs
170-090-176	TTS-803M	Polished	Brass	65	38	2.5	6.1	7	7.5	25	6×ϕ3.6	54 g	50 pcs
170-090-172	TTS-803WB	Satin Nickel	Brass	65	38	2.5	6.1	7	7.5	25	6×ϕ3.6	54 g	50 pcs
170-090-177	TTS-804M	Polished	Brass	75	42	2.6	7.1	8	10.5	27	6×ϕ3.8	77 g	50 pcs
170-090-173	TTS-804WB	Satin Nickel	Brass	75	42	2.6	7.1	8	10.5	27	6×ϕ3.8	77 g	50 pcs

LIFT-OFF HINGE

STEEL

TTS-200 SERIES

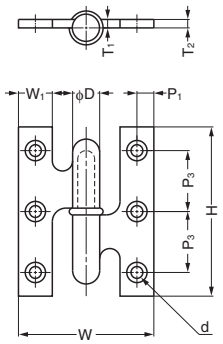


M
(Right)

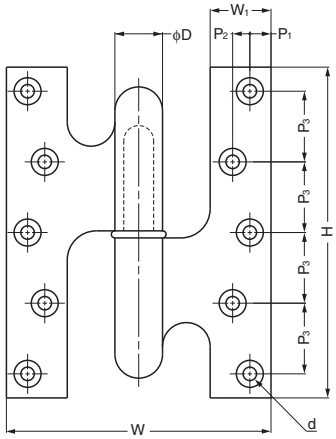
WB
(Left)

■**Parts Included**

Countersunk head wood screw (Not provided for TTS-201～ TTS-203)



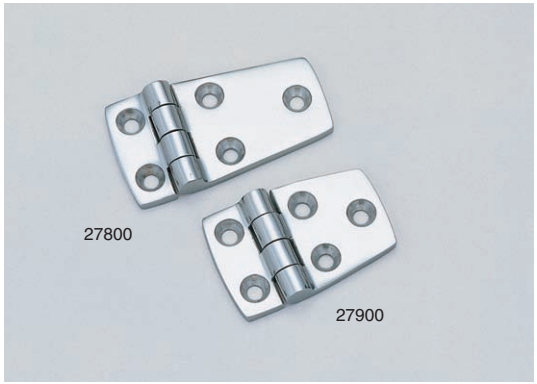
TTS-201 L/R～203 L/R

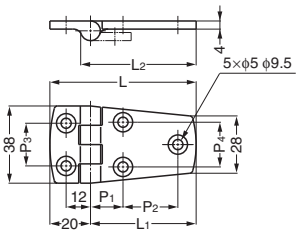


Item Code	Item Name	Type	Material	Finish	Screw	H	W	W_1	T_1	T_2	D	P_1	P_2	P_3	d	Weight	Box
170-090-230	TTS-201MR	Right	Brass	Polished	—	50	40	10	2.5	2.5	8	5	—	18	6×ϕ3.5	37 g	20 pcs
170-090-231	TTS-201ML	Left	Brass	Polished	—	50	40	10	2.5	2.5	8	5	—	18	6×ϕ3.5	37 g	20 pcs
170-090-220	TTS-201WBR	Right	Brass	Satin Nickel	—	50	40	10	2.5	2.5	8	5	—	18	6×ϕ3.5	37 g	20 pcs
170-090-221	TTS-201WBL	Left	Brass	Satin Nickel	—	50	40	10	2.5	2.5	8	5	—	18	6×ϕ3.5	37 g	20 pcs
170-090-232	TTS-202MR	Right	Brass	Polished	—	65	50	13	2.8	2.8	10	6.5	—	25	6×ϕ3.8	73 g	20 pcs
170-090-233	TTS-202ML	Left	Brass	Polished	—	65	50	13	2.8	2.8	10	6.5	—	25	6×ϕ3.8	73 g	20 pcs
170-090-222	TTS-202WBR	Right	Brass	Satin Nickel	—	65	50	13	2.8	2.8	10	6.5	—	25	6×ϕ3.8	73 g	20 pcs
170-090-223	TTS-202WBL	Left	Brass	Satin Nickel	—	65	50	13	2.8	2.8	10	6.5	—	25	6×ϕ3.8	73 g	20 pcs
170-090-234	TTS-203MR	Right	Brass	Polished	—	75	60	15	3	3	11	7.5	—	29.5	6×ϕ4.1	106 g	10 pcs
170-090-235	TTS-203ML	Left	Brass	Polished	—	75	60	15	3	3	11	7.5	—	29.5	6×ϕ4.1	106 g	10 pcs
170-090-224	TTS-203WBR	Right	Brass	Satin Nickel	—	75	60	15	3	3	11	7.5	—	29.5	6×ϕ4.1	106 g	10 pcs
170-090-225	TTS-203WBL	Left	Brass	Satin Nickel	—	75	60	15	3	3	11	7.5	—	29.5	6×ϕ4.1	106 g	10 pcs
170-090-236	TTS-204MR	Right	Brass	Polished	4.1×25	100	75	19	4.5	4	15	7	4	28.3	8×ϕ4.5	260 g	6 pcs
170-090-237	TTS-204ML	Left	Brass	Polished	4.1×25	100	75	19	4.5	4	15	7	4	28.3	8×ϕ4.5	260 g	6 pcs
170-090-226	TTS-204WBR	Right	Brass	Satin Nickel	4.1×25	100	75	19	4.5	4	15	7	4	28.3	8×ϕ4.5	260 g	6 pcs
170-090-227	TTS-204WBL	Left	Brass	Satin Nickel	4.1×25	100	75	19	4.5	4	15	7	4	28.3	8×ϕ4.5	260 g	6 pcs
170-090-238	TTS-205MR	Right	Brass	Polished	4.5×30	125	100	23.5	5	4.5	18	8	7	26.75	10×ϕ5.1	480 g	6 pcs
170-090-239	TTS-205ML	Left	Brass	Polished	4.5×30	125	100	23.5	5	4.5	18	8	7	26.75	10×ϕ5.1	480 g	6 pcs
170-090-228	TTS-205WBR	Right	Brass	Satin Nickel	4.5×30	125	100	23.5	5	4.5	18	8	7	26.75	10×ϕ5.1	480 g	6 pcs
170-090-229	TTS-205WBL	Left	Brass	Satin Nickel	4.5×30	125	100	23.5	5	4.5	18	8	7	26.75	10×ϕ5.1	480 g	6 pcs

BUTT HINGE

L=R STAINLESS 316 STEEL **27900, 27800**





■**Features**

Ideal for exterior application.

■**Remarks**

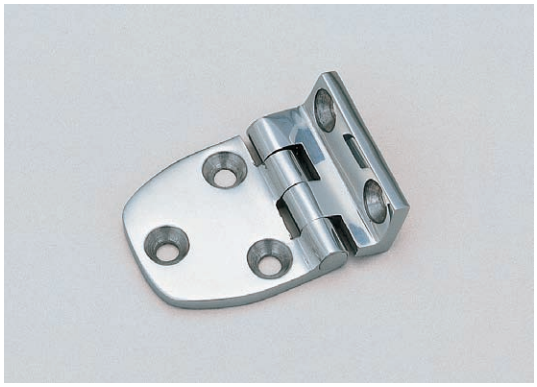
Recommended for use in pairs.

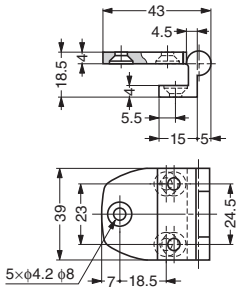
Item Code	Item Name	Material	Finish	L	L1	L2	P1	P2	P3	P4	Door Width	Door Height	Door Thickness	Door Weight	Weight	Box	Carton
170-096-008	27900	Stainless Steel (SCS14)	Mirror	58	38	42	13.5	16.5	21	20	Max. 450	Max. 700	Max. 21	Max. 4 kg/2 pcs	70 g	20 pcs	100 pcs
170-096-007	27800	Stainless Steel (SCS14)	Mirror	72	52	57	16	27	22	21	Max. 450	Max. 700	Max. 21	Max. 4 kg/2 pcs	85 g	20 pcs	100 pcs

※SCS14 is equivalent of SUS316.

BUTT HINGE

L=R STAINLESS 316 STEEL **28100**





■**Features**

Ideal for exterior application.

■**Remarks**

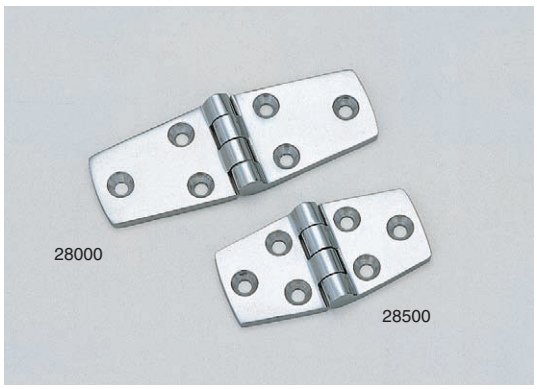
Recommended for use in pairs.

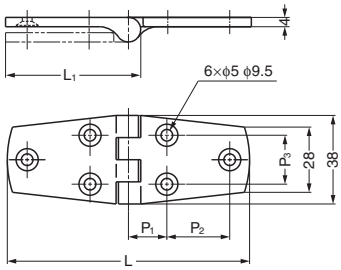
Item Code	Item Name	Material	Finish	Door Width	Door Height	Door Thickness	Door Weight	Weight	Box	Carton
170-096-006	28100	Stainless Steel (SCS14)	Mirror	Max. 450	Max. 700	Max. 21	Max. 4 kg/2 pcs	83 g	20 pcs	100 pcs

※SCS14 is equivalent of SUS316.

BUTT HINGE

L=R STAINLESS 316 STEEL **28500, 28000**





■**Features**

Ideal for exterior application.

■**Remarks**

Recommended for use in pairs.

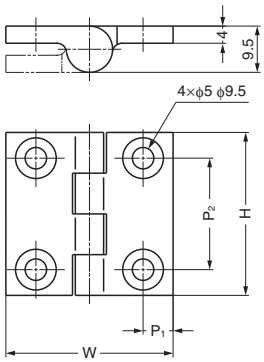
Item Code	Item Name	Material	Finish	L	L1	P1	P2	P3	Door Width	Door Height	Door Thickness	Door Weight	Weight	Box	Carton
170-096-002	28500	Stainless Steel (SCS14)	Mirror	74	42	13	17	20	Max. 450	Max. 700	Max. 21	Max. 4 kg/2 pcs	86 g	20 pcs	100 pcs
170-096-003	28000	Stainless Steel (SCS14)	Mirror	104	57	16.5	27	21	Max. 450	Max. 700	Max. 21	Max. 4 kg/2 pcs	115 g	20 pcs	100 pcs

※SCS14 is equivalent of SUS316.

BUTT HINGE

L=R STAINLESS 316 STEEL **28300, 28400**





■Features

Ideal for exterior application.

■Remarks

Recommended for use in pairs.

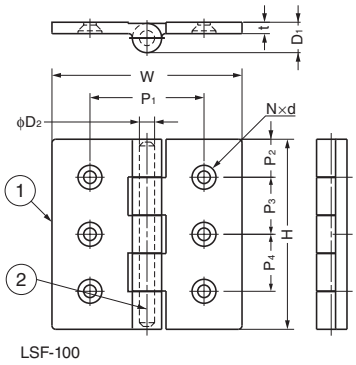
Item Code	Item Name	Material	Finish	H	W	P_1	P_2	Door Width	Door Height	Door Thickness	Door Weight	Weight	Box	Carton
170-096-004	28300	Stainless Steel (SCS14)	Mirror	38	39	7	26	Max. 450	Max. 700	Max. 21	Max. 4 kg/2 pcs	55 g	20 pcs	100 pcs
170-096-005	28400	Stainless Steel (SCS14)	Mirror	50	50	7.5	34	Max. 450	Max. 700	Max. 21	Max. 4 kg/2 pcs	90 g	20 pcs	100 pcs

※SCS14 is equivalent of SUS316.

BUTT HINGE

L=R STAINLESS 316 STEEL **LSF**





LSF-100

■Features

Ideal for exterior application.

No.	Part Name	Material	Finish
①	Body	Stainless Steel (SCS14)	Mirror
②	Shaft	Stainless Steel (SUS316)	—

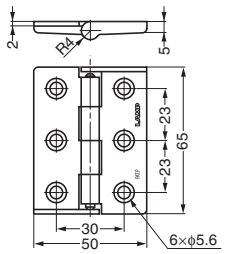
※SCS14 is equivalent of SUS316.

Item Code	Item Name	H	W	P_1	P_2	P_3	P_4	t	D_1	D_2	Knuckles	N	d	Door Weight	Weight	Box	Carton
170-090-720	LSF- 50	50	50	35	15	20	—	5	14	6	3	4	Counterbore for M4	Max. 35 kg/2 pcs	125 g	20 pcs	100 pcs
170-090-721	LSF- 65	65	65	40	15	35	—	5	14	6	3	4	Counterbore for M5	Max. 45 kg/2 pcs	180 g	20 pcs	80 pcs
170-090-722	LSF- 75	75	75	50	17.5	40	—	6	16	8	3	4	Counterbore for M6	Max. 65 kg/2 pcs	297 g	10 pcs	50 pcs
170-090-723	LSF-100	100	100	60	20	30	30	6	16	8	5	6	Counterbore for M6	Max. 85 kg/2 pcs	483 g	10 pcs	30 pcs

BUTT HINGE

L=R STAINLESS 304 STEEL **HG-BF1**





■Features

Rim on edges prevents pin from falling off and limits angle.

Item Code	Item Name	Material	Finish	Weight	Box	Carton
170-091-560	HG-BF1	Stainless Steel (SUS304)	Polished	63 g	20 pcs	120 pcs

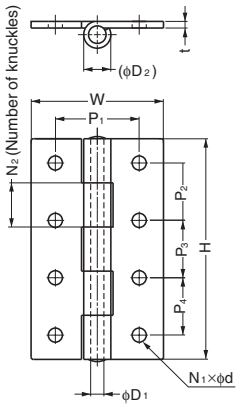
BUTT HINGE

L=R STAINLESS 304 STEEL **LSB**



■**Features**

No-hole type is also available at surcharge.

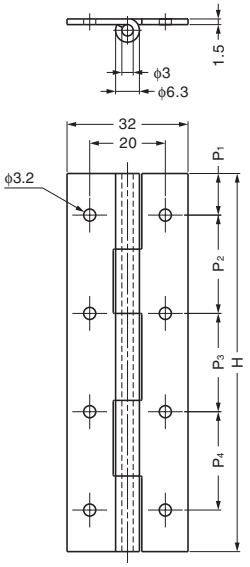


Item Code	Item Name	Material	Finish	H	W	P_1	P_2	P_3	P_4	t	d	D_1	D_2	N_1	N_2	Door Weight	Weight	Box	Carton
170-090-724	LSB- 40	Stainless Steel (SUS304)	Mirror	40	35	22	26	—	—	1.5	3.2	3	6.3	4	3	Max. 6 kg/2 pcs	25 g	100 pcs	400 pcs
170-090-725	LSB- 50	Stainless Steel (SUS304)	Mirror	50	35	22	34	—	—	1.5	4.3	3	6.3	4	3	Max. 8 kg/2 pcs	30 g	100 pcs	400 pcs
170-090-716	LSB- 65	Stainless Steel (SUS304)	Mirror	65	50	30	23	23	—	2	4.3	4.5	8.8	6	5	Max. 13 kg/2 pcs	71 g	50 pcs	200 pcs
170-090-717	LSB- 75	Stainless Steel (SUS304)	Mirror	75	50	30	27	27	—	2	5.3	4.5	8.8	6	5	Max. 15 kg/2 pcs	82 g	40 pcs	160 pcs
170-090-728	LSB- 90	Stainless Steel (SUS304)	Mirror	90	60	38	35	35	—	3	6.4	6	12.3	6	5	Max. 25 kg/2 pcs	180 g	10 pcs	80 pcs
170-090-729	LSB-100	Stainless Steel (SUS304)	Mirror	100	60	38	26	26	26	3	6.4	6	12.3	8	5	Max. 30 kg/2 pcs	202 g	10 pcs	60 pcs

BUTT HINGE

L=R STAINLESS 304 STEEL **KHA**





Item Code	Item Name	Material	Finish	H	P_1	P_2	P_3	P_4	Knuckles	Door Weight	Weight	Box	Carton
170-091-180	KHA- 25C	Stainless Steel (SUS304)	Polished	25	6	13	—	—	3	Max. 3 kg/2 pcs	13 g	200 pcs	800 pcs
170-091-181	KHA- 30C	Stainless Steel (SUS304)	Polished	30	7	16	—	—	3	Max. 4 kg/2 pcs	16 g	200 pcs	800 pcs
170-091-182	KHA- 40C	Stainless Steel (SUS304)	Polished	40	8	24	—	—	3	Max. 6 kg/2 pcs	21 g	150 pcs	600 pcs
170-091-199	KHA- 50C	Stainless Steel (SUS304)	Polished	50	10	30	—	—	3	Max. 7 kg/2 pcs	26 g	100 pcs	400 pcs
170-091-200	KHA- 60C	Stainless Steel (SUS304)	Polished	60	8	22	22	—	5	Max. 9 kg/2 pcs	31 g	100 pcs	400 pcs
170-091-185	KHA- 65C	Stainless Steel (SUS304)	Polished	65	8.5	24	24	—	5	Max. 10 kg/2 pcs	34 g	100 pcs	400 pcs
170-091-202	KHA- 75C	Stainless Steel (SUS304)	Polished	75	9.5	28	28	—	5	Max. 11 kg/2 pcs	39 g	50 pcs	200 pcs
170-091-203	KHA- 80C	Stainless Steel (SUS304)	Polished	80	10	30	30	—	5	Max. 12 kg/2 pcs	42 g	50 pcs	200 pcs
170-091-204	KHA- 90C	Stainless Steel (SUS304)	Polished	90	10	35	35	—	5	Max. 13 kg/2 pcs	47 g	50 pcs	200 pcs
170-091-189	KHA-100C	Stainless Steel (SUS304)	Polished	100	11	26	26	26	5	Max. 15 kg/2 pcs	52 g	50 pcs	200 pcs

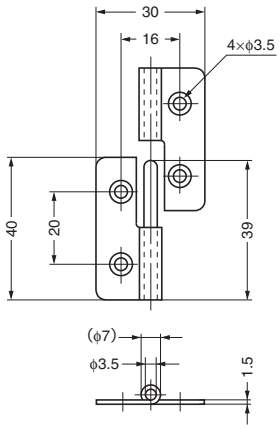
LIFT-OFF HINGE

STAINLESS 304 STEEL

NH-40



Left type shown.



Right type shown.

Item Code	Item Name	Type	Material	Finish	Door Weight	Weight	Box	Carton
170-090-339	NH-40CL	Left	Stainless Steel (SUS304)	Polished	Max. 7 kg/2 pcs	21 g	150 pcs	600 pcs
170-090-337	NH-40CR	Right	Stainless Steel (SUS304)	Polished	Max. 7 kg/2 pcs	21 g	150 pcs	600 pcs

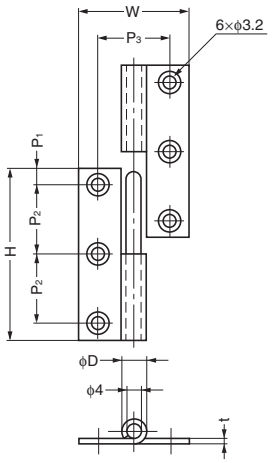
LIFT-OFF HINGE

STAINLESS 304 STEEL

KN



Right type shown.

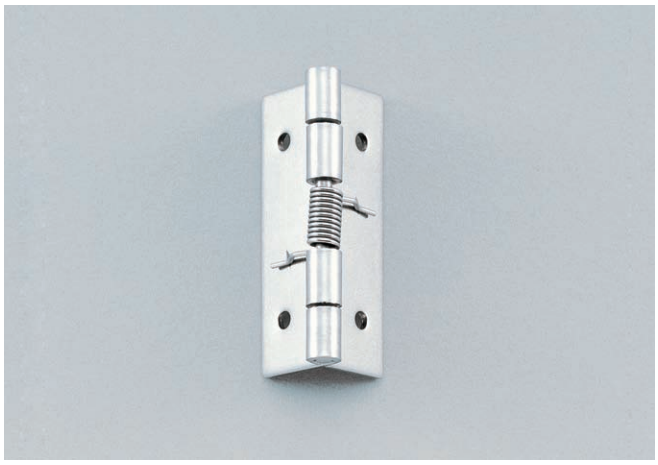


Right type shown.

Item Code	Item Name	Type	Material	Finish	H	W	P_1	P_2	P_3	D	t	Door Weight	Weight	Box	Carton
170-090-742	KN-50CL	Left	Stainless Steel (SUS304)	Mirror	50	32	5	20	21	7.5	1.5	Max. 7 kg/2 pcs	28 g	100 pcs	400 pcs
170-090-743	KN-50CR	Right	Stainless Steel (SUS304)	Mirror	50	32	5	20	21	7.5	1.5	Max. 7 kg/2 pcs	28 g	100 pcs	400 pcs
170-090-744	KN-64CL	Left	Stainless Steel (SUS304)	Mirror	64	36	8	24	24	7.5	1.5	Max. 10 kg/2 pcs	38 g	100 pcs	400 pcs
170-090-745	KN-64CR	Right	Stainless Steel (SUS304)	Mirror	64	36	8	24	24	7.5	1.5	Max. 10 kg/2 pcs	38 g	100 pcs	400 pcs
170-090-746	KN-75CL	Left	Stainless Steel (SUS304)	Mirror	75	38	7.5	30	24	8.5	2	Max. 15 kg/2 pcs	60 g	50 pcs	200 pcs
170-090-747	KN-75CR	Right	Stainless Steel (SUS304)	Mirror	75	38	7.5	30	24	8.5	2	Max. 15 kg/2 pcs	60 g	50 pcs	200 pcs

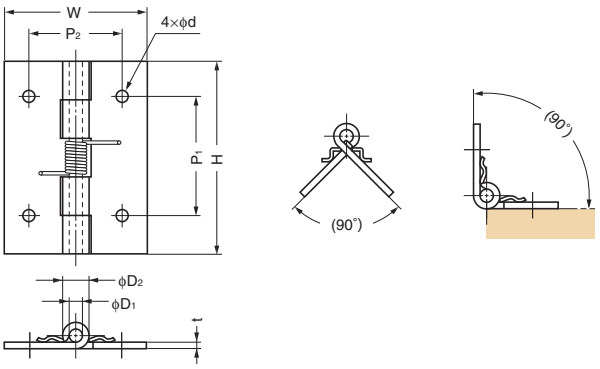
BUTT HINGE (W/ SPRING)

L=R STAINLESS 304 STEEL **HG-SH**



■Features

Designed to keep doors closed.



Item Code	Item Name	Material	Finish	H	W	P_1	P_2	D_1	D_2	d	t	Torque Moment		Door Weight	Weight	Box	Carton
170-098-515	HG-SH-20C	Stainless Steel (SUS304)	Mirror	20	14	—	—	1	2.2	—	0.5	9.7 cN・m	0.99 kgf・cm	Max. 1 kg/2 pcs	1.5 g	800 pcs	3200 pcs
170-098-516	HG-SH-25C	Stainless Steel (SUS304)	Mirror	25	32	14	20	3	5.8	3.2	1.2	6.5 cN・m	0.66 kgf・cm	Max. 2 kg/2 pcs	10 g	300 pcs	1200 pcs
170-098-517	HG-SH-38C	Stainless Steel (SUS304)	Mirror	38	32	26	20	3	6.5	3.2	1.5	14.7 cN・m	1.5 kgf・cm	Max. 4 kg/2 pcs	20 g	200 pcs	800 pcs
170-098-522	HG-SH-51C	Stainless Steel (SUS304)	Mirror	51	38	32	25	3	6.5	3.2	1.5	13.5 cN・m	1.38 kgf・cm	Max. 6 kg/2 pcs	30 g	130 pcs	520 pcs

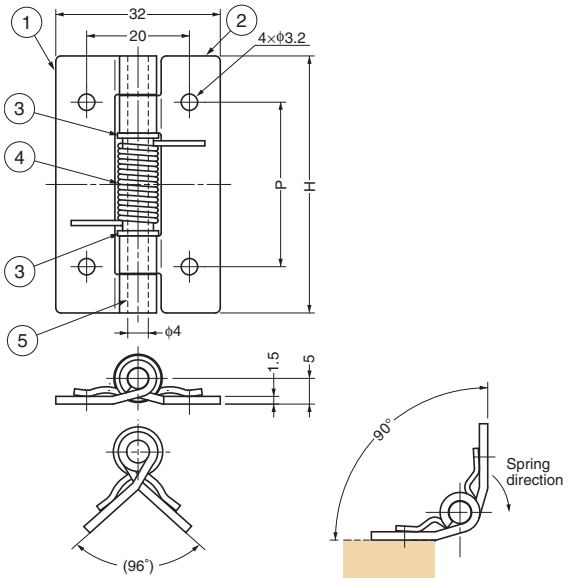
HIGH DURABILITY SPRING HINGE

L=R STAINLESS 304 STEEL **HG-SHL**



■Features

- Stainless steel construction suitable for harsh environments.
- Passed 1,000,000 times open/close cycle test.



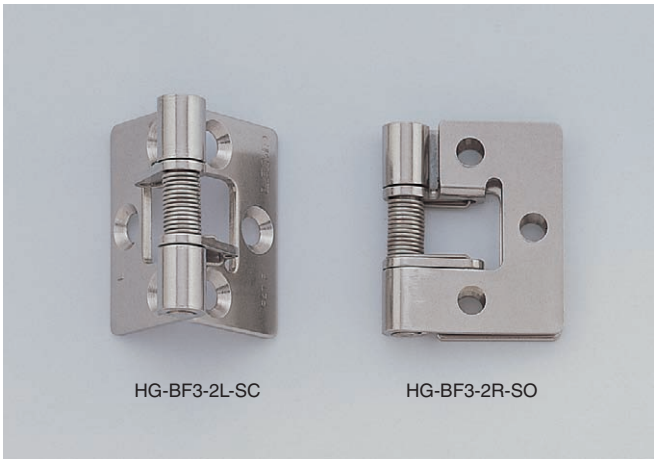
No.	Part Name	Material	Finish
①	Body 1	Stainless Steel (SUS304)	Mirror
②	Body 2	Stainless Steel (SUS304)	Mirror
③	Collar	Stainless Steel (SUS303)	—
④	Spring	Stainless Steel (SUS304)	—
⑤	Shaft	Stainless Steel (SUS303)	—

Item Code	Item Name	H	P	Torque Moment		Weight	Box	Carton
170-024-384	HG-SHL32	32	18	4.7 cN・m	0.48 kgf・cm	20 g	50 pcs	500 pcs
170-024-385	HG-SHL50	50	32	8.9 cN・m	0.91 kgf・cm	30 g	50 pcs	500 pcs
170-024-386	HG-SHL60	60	40	14.0 cN・m	1.43 kgf・cm	38 g	50 pcs	500 pcs

BUTT HINGE (W/ SPRING)

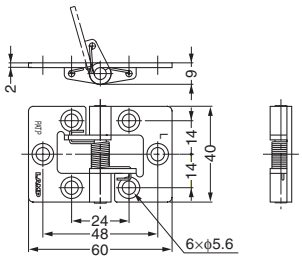
STAINLESS 304 STEEL

HG-BF3-2

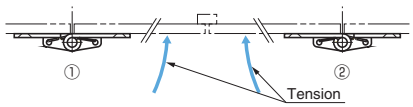


■Features

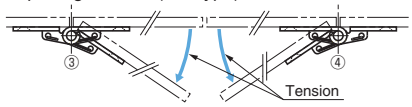
- Spring hinge to hold door.
- Available with either opening or closing spring tension.



■Closing Tension (SC Type)



■Opening Tension (SO Type)



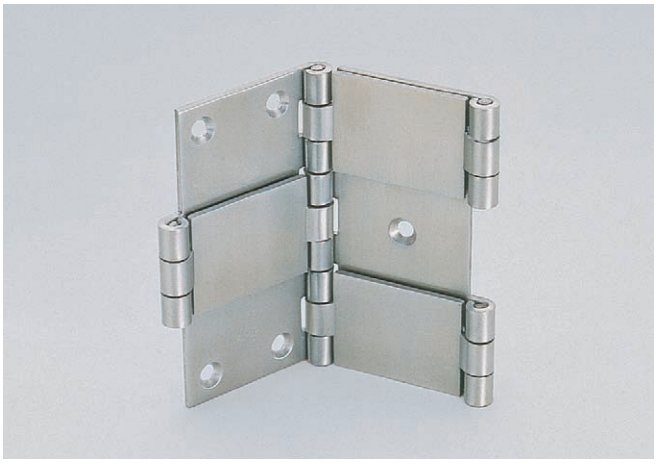
※①, ③ "L"
②, ④ "R"

Item Code	Item Name	No.	Type	Material	Finish	Weight	Box	Carton
170-091-562	HG-BF3-2L-SC	①	Closing Tension/Left	Stainless Steel (SUS304)	Polished	41 g	20 pcs	120 pcs
170-091-564	HG-BF3-2R-SC	②	Closing Tension/Right	Stainless Steel (SUS304)	Polished	41 g	20 pcs	120 pcs
170-091-561	HG-BF3-2L-SO	③	Opening Tension/Left	Stainless Steel (SUS304)	Polished	41 g	20 pcs	120 pcs
170-091-563	HG-BF3-2R-SO	④	Opening Tension/Right	Stainless Steel (SUS304)	Polished	41 g	20 pcs	120 pcs

DOUBLE ACTION HINGE

L=R STAINLESS 304 STEEL

HG-BH

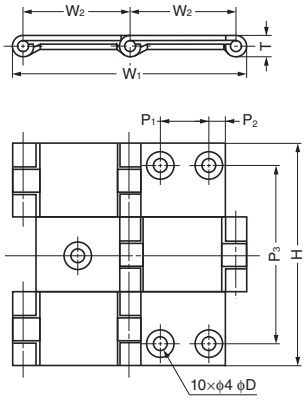


■Features

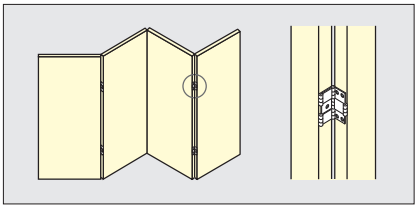
Opens 180° in both left and right direction.

■Remarks

Recommended for use in pairs.



■Application Example



Item Code	Item Name	Material	Finish	H	W2	W1	T	P3	P2	P1	D	Door Width	Door Height	Door Weight	Weight	Box	Carton
170-090-065	HG-BH60	Stainless Steel (SUS304)	Satin	60	29	64	5.5	47	4.8	13.5	6.5	Max. 450	Max. 700	Max. 2.6 kg/2 pcs	65 g	20 pcs	260 pcs
170-090-066	HG-BH70	Stainless Steel (SUS304)	Satin	70	35	78	7.5	57	6.8	13.5	7	Max. 450	Max. 700	Max. 2.6 kg/2 pcs	130 g	10 pcs	180 pcs
170-090-067	HG-BH80	Stainless Steel (SUS304)	Satin	80	43.2	94	7.5	66	6.5	22	7	Max. 450	Max. 700	Max. 2.6 kg/2 pcs	175 g	10 pcs	120 pcs

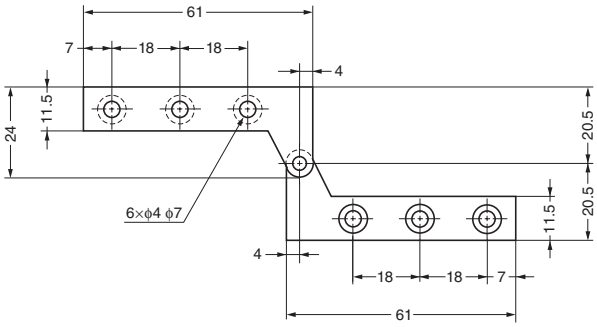
INSET DOOR PIVOT HINGE

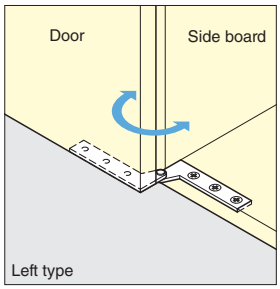
STAINLESS 430 STEEL

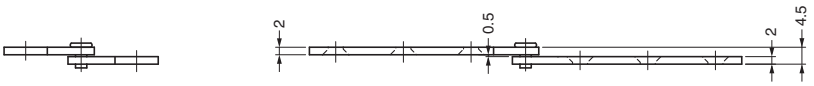
PP-60



Left (for left-lower / right-upper)







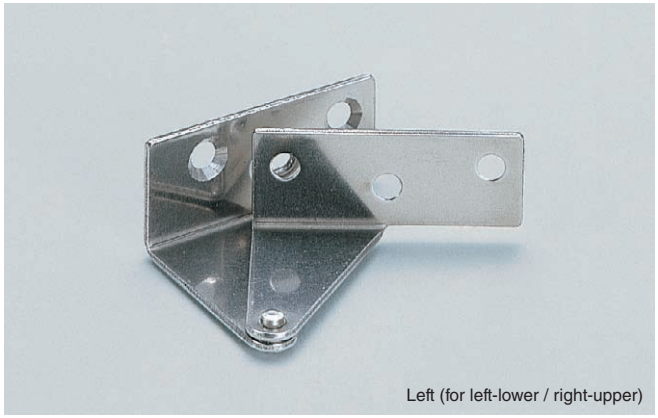
Right type shown.

Item Code	Item Name	Type	Material	Finish	Door Width	Door Height	Door Weight	Weight	Box	Carton
170-090-261	PP-60R	Right (for right-lower / left-upper)	Stainless Steel (SUS430)	Plain	Max. 450	Max. 700	Max. 2.6 kg	22 g	100 pcs	1000 pcs
170-090-262	PP-60L	Left (for left-lower / right-upper)	Stainless Steel (SUS430)	Plain	Max. 450	Max. 700	/pair	22 g	100 pcs	1000 pcs

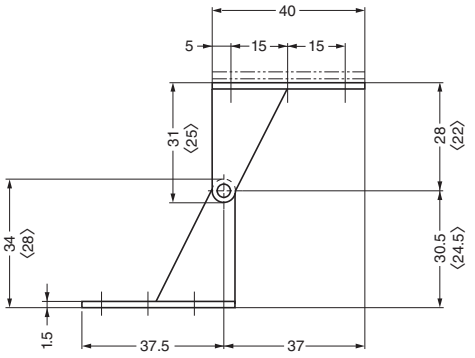
OVERLAY DOOR PIVOT HINGE

STAINLESS 430 STEEL

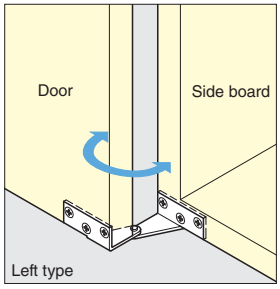
WP1, WP3

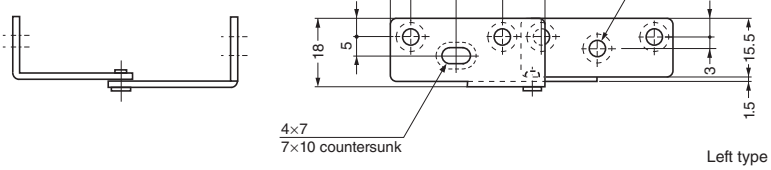


Left (for left-lower / right-upper)



< > shows WP3.





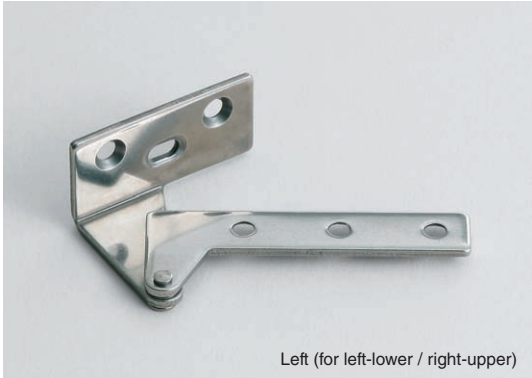
Left type shown.

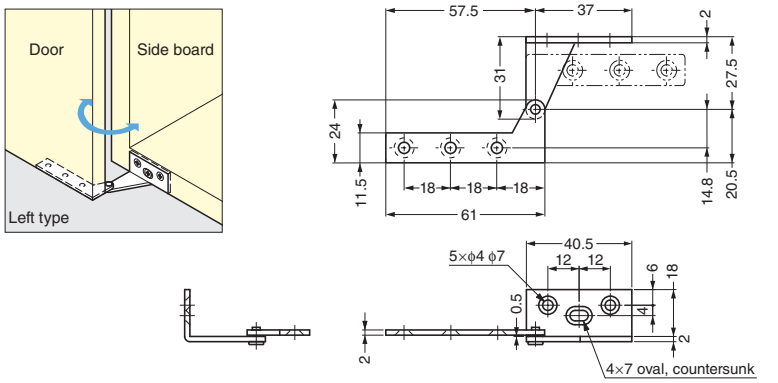
Item Code	Item Name	Type	Material	Finish	Door Width	Door Height	Door Thickness	Door Weight	Weight	Box	Carton
170-090-257	WP1R	Right (for right-lower / left-upper)	Stainless Steel (SUS430)	Plain	Max. 300	Max. 700	Max. 24	Max. 1.8 kg	23 g	100 pcs	1000 pcs
170-090-258	WP1L	Left (for left-lower / right-upper)	Stainless Steel (SUS430)	Plain	Max. 300	Max. 700	Max. 24	/pair	23 g	100 pcs	1000 pcs
170-090-259	WP3R	Right (for right-lower / left-upper)	Stainless Steel (SUS430)	Plain	Max. 300	Max. 700	Max. 18	Max. 1.8 kg	21 g	100 pcs	1000 pcs
170-090-260	WP3L	Left (for left-lower / right-upper)	Stainless Steel (SUS430)	Plain	Max. 300	Max. 700	Max. 18	/pair	21 g	100 pcs	1000 pcs

OVERLAY DOOR PIVOT HINGE

STAINLESS 430 STEEL

PL-60


Left (for left-lower / right-upper)



Left type shown.

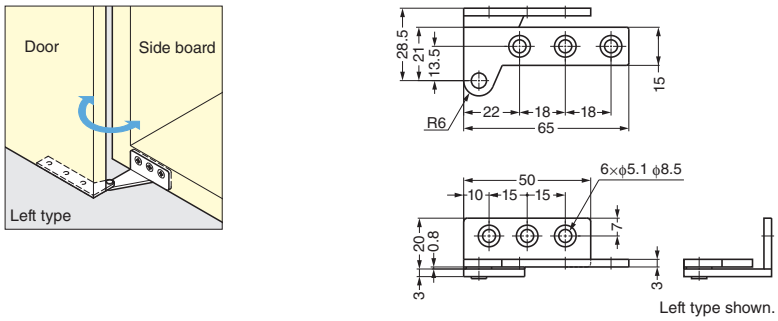
Item Code	Item Name	Type	Material	Finish	Door Width	Door Height	Door Thickness	Door Weight	Weight	Box	Carton
170-090-263	PL-60R	Right (for right-lower / left-upper)	Stainless Steel (SUS430)	Plain	Max. 450	Max. 700	22	Max. 2.6 kg	27 g	100 pcs	1000 pcs
170-090-264	PL-60L	Left (for left-lower / right-upper)	Stainless Steel (SUS430)	Plain	Max. 450	Max. 700	22	/pair	27 g	100 pcs	1000 pcs

OVERLAY DOOR PIVOT HINGE

STAINLESS 430 STEEL

PL-65


Left (for left-lower / right-upper)



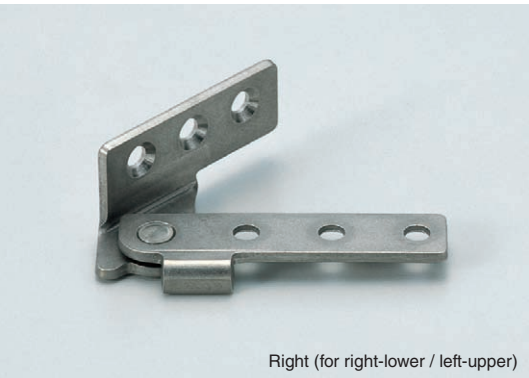
Left type shown.

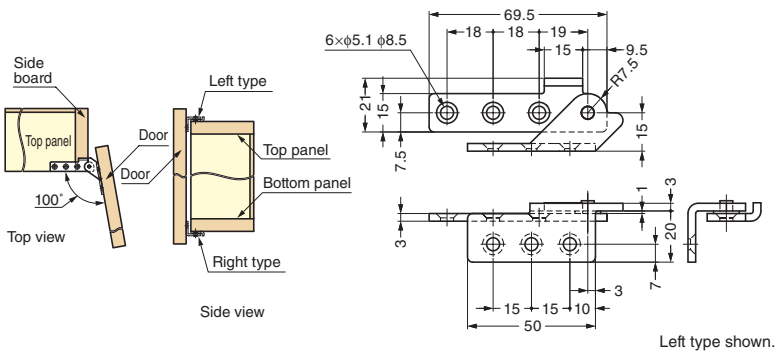
Item Code	Item Name	Type	Material	Finish	Door Width	Door Height	Door Thickness	Door Weight	Weight	Box	Carton
170-099-190	PL-65R	Right (for right-lower / left-upper)	Stainless Steel (SUS430)	Plain	Max. 450	Max. 700	22	Max. 4 kg	55 g	40 pcs	400 pcs
170-099-191	PL-65L	Left (for left-lower / right-upper)	Stainless Steel (SUS430)	Plain	Max. 450	Max. 700	22	/pair	55 g	40 pcs	400 pcs

OVERLAY DOOR PIVOT HINGE

STAINLESS 304 STEEL

PL-100


Right (for right-lower / left-upper)

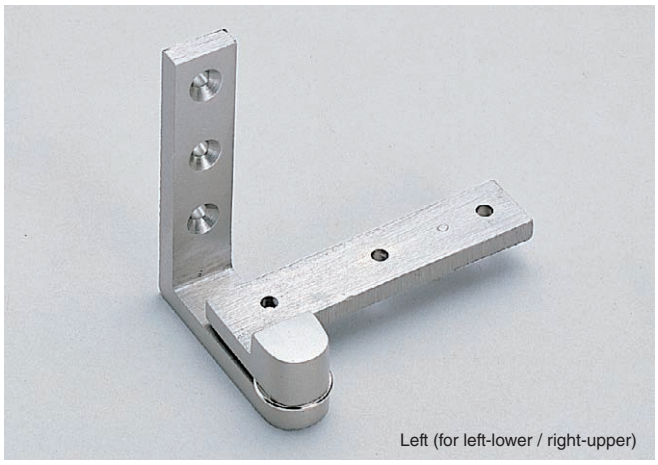


Left type shown.

Item Code	Item Name	Type	Material	Finish	Door Width	Door Height	Door Weight	Weight	Box	Carton
170-099-379	PL-100R	Right (for right-lower / left-upper)	Stainless Steel (SUS304)	Polished	Max. 600	Max. 750	Max. 6 kg	55 g	70 pcs	420 pcs
170-099-380	PL-100L	Left (for left-lower / right-upper)	Stainless Steel (SUS304)	Polished	Max. 600	Max. 750	/pair	55 g	70 pcs	420 pcs

OVERLAY DOOR PIVOT HINGE

STAINLESS **PAS**

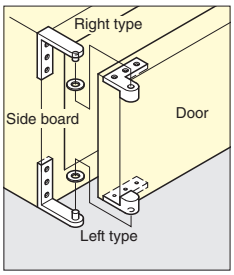

Left (for left-lower / right-upper)

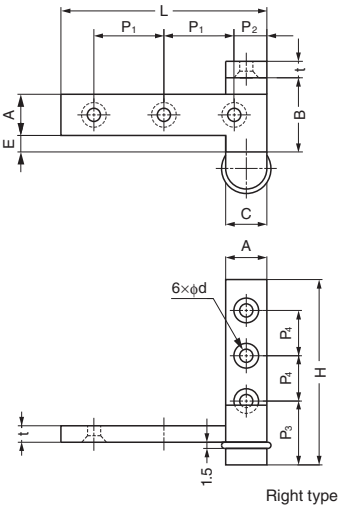
■Remarks

Sold in pairs.

■Parts Included

- Countersunk head wood screw 3.1×20 (SUS) (PAS-50, 60)
- Countersunk head wood screw 3.8×25 (SUS) (PAS-80, 90)



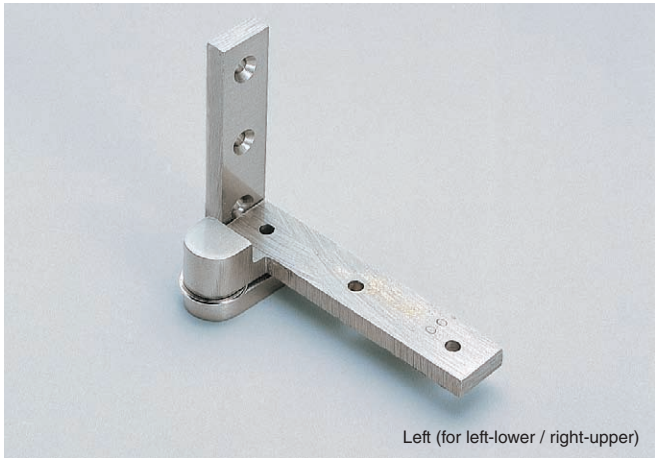


Right type shown.

Item Code	Item Name	Material	Finish	L	t	H	A	B	C	E	P1	P2	P3	P4	d	Door				Weight	Box	Carton
																Width	Height	Thickness	Weight			
170-090-981	PAS-50	Brass	Satin Nickel	50	4	45	10	22	10	4	17	8	15.5	11	3.2	Max. 450	Max. 700	21	Max. 2.6 kg/pair	104 g	10 pairs	200 pairs
170-090-977	PAS-60	Brass	Satin Nickel	60	4.5	50	12	22	12	4	21	9	16	13.5	3.2	Max. 450	Max. 700	21	Max. 2.6 kg/pair	141 g	10 pairs	200 pairs
170-090-982	PAS-80	Brass	Satin Nickel	80	6	70	16	26.5	15	4	30	10	24	19	4.2	Max. 450	Max. 700	25	Max. 4 kg/pair	348 g	8 pairs	32 pairs
170-090-983	PAS-95	Brass	Satin Nickel	95	6.5	80	19	31.5	16	9	35	12.5	26	22	4.2	Max. 450	Max. 700	30	Max. 4 kg/pair	497 g	6 pairs	24 pairs

INSET DOOR PIVOT HINGE

STAINLESS **PAW**

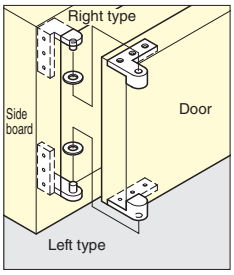

Left (for left-lower / right-upper)

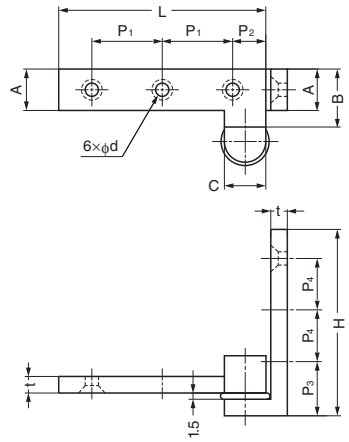
■Remarks

Sold in pairs.

■Parts Included

- Countersunk head wood screw 3.1×20 (SUS) (PAW-50, 60)
- Countersunk head wood screw 3.8×25 (SUS) (PAW-80, 95)





Right type shown.

Item Code	Item Name	Material	Finish	L	t	H	A	B	C	P1	P2	P3	P4	d	Door				Weight	Box	Carton
															Width	Height	Thickness	Weight			
170-090-978	PAW-50	Brass	Satin Nickel	50	4	45	10	14	10	17	8	13	12.5	3.2	Max. 450	Max. 700	14	Max. 2.6 kg/pair	98 g	10 pairs	200 pairs
170-090-975	PAW-60	Brass	Satin Nickel	60	4.5	50	12	16	12	21	9	12.5	15.5	3.2	Max. 450	Max. 700	16	Max. 2.6 kg/pair	133 g	10 pairs	200 pairs
170-090-979	PAW-80	Brass	Satin Nickel	80	6	70	16	20	15	30	10	15	23	4.2	Max. 450	Max. 700	20	Max. 4 kg/pair	356 g	8 pairs	32 pairs
170-090-980	PAW-95	Brass	Satin Nickel	95	6.5	80	19	28	16	35	12.5	18	25.5	4.2	Max. 450	Max. 700	28	Max. 4 kg/pair	509 g	6 pairs	24 pairs

INSET DOOR PIVOT HINGE

PH

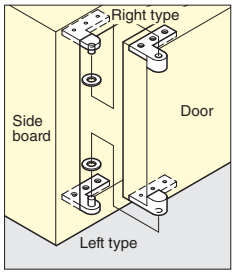


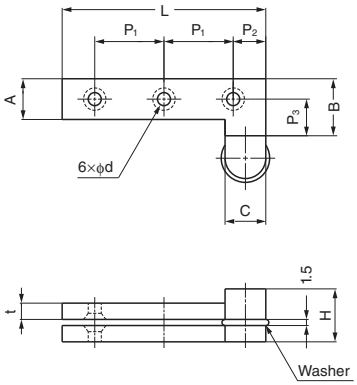
■Remarks

Sold in pairs.

■Parts Included

- Countersunk head wood screw 3.1×20 (SUS) (PH-50, 60)
- Countersunk head wood screw 3.8×25 (SUS) (PH-80, 90)



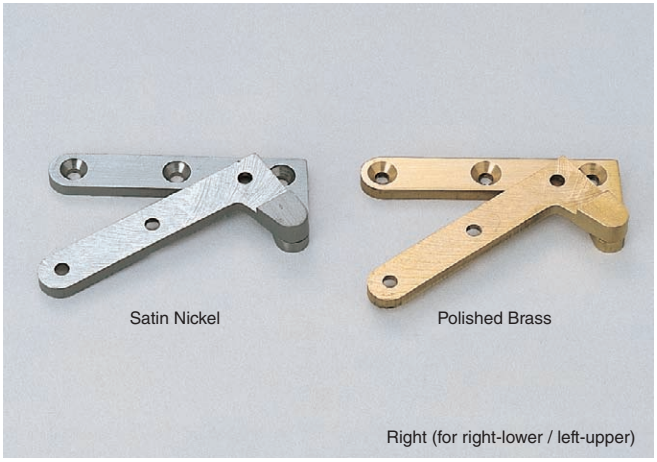


Right type shown.

Item Code	Item Name	Material	Finish	L	t	H	A	B	C	P1	P2	P3	d	Door				Weight	Box	Carton
														Width	Height	Thickness	Weight			
170-090-984	PH-50	Brass	Satin Nickel	50	4	13	10	14	10	17	8	9	3.2	Max. 450	Max. 700	Min. 14 mm	Max. 2.6 kg/pair	90 g	10 pairs	200 pairs
170-090-976	PH-60	Brass	Satin Nickel	60	4.5	13	12	16	12	21	9	9	3.2	Max. 450	Max. 700	Min. 16 mm	Max. 2.6 kg/pair	133 g	10 pairs	200 pairs
170-090-985	PH-80	Brass	Satin Nickel	80	6	22	16	20	15	30	10	12	4.2	Max. 450	Max. 700	Min. 20 mm	Max. 4 kg/pair	343 g	8 pairs	32 pairs
170-090-986	PH-95	Brass	Satin Nickel	95	6.5	22	19	28	16	35	12.5	18.5	4.2	Max. 450	Max. 700	Min. 28 mm	Max. 4 kg/pair	520 g	6 pairs	24 pairs

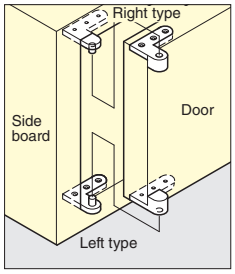
INSET DOOR PIVOT HINGE

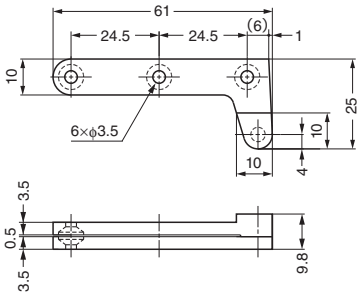
TTS-902



■Remarks

Sold in pairs.



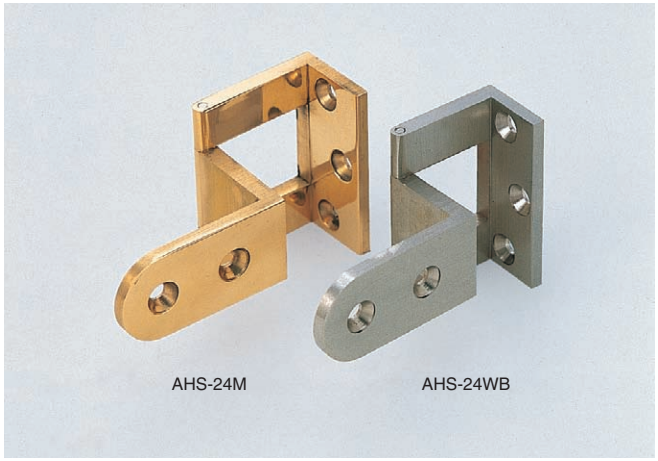


Right type shown.

Item Code	Item Name	Type	Material	Finish	Weight	Box
170-090-126	TTS-902WBL	Left (for left-lower / right-upper)	Brass	Satin Nickel	41 g	20 pairs
170-090-125	TTS-902WBR	Right (for right-lower / left-upper)	Brass	Satin Nickel	41 g	20 pairs
170-090-128	TTS-902ML	Left (for left-lower / right-upper)	Brass	Polished	43 g	20 pairs
170-090-127	TTS-902MR	Right (for right-lower / left-upper)	Brass	Polished	43 g	20 pairs

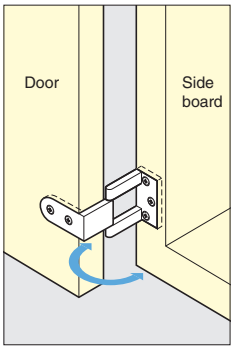
OVERLAY DOOR ANGLE HINGE

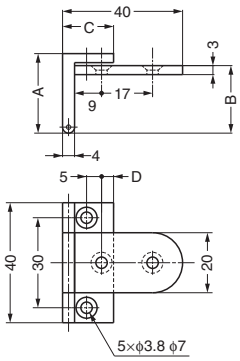
L=R AHS



■Remarks

Recommended for use in pairs.

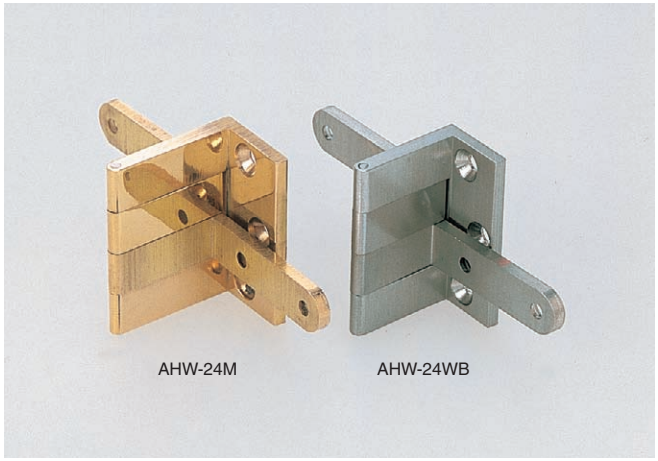




Item Code	Item Name	Material	Finish	A	B	C	D	Door				Weight	Box	Carton
								Width	Height	Thickness	Weight			
170-090-010	AHS-20M	Brass	Polished	26.5	22.5	17	4	Max. 450	Max. 700	20	Max. 2.6 kg/2 pcs	61 g	20 pcs	360 pcs
170-090-011	AHS-20WB	Brass	Satin Nickel	26.5	22.5	17	4	Max. 450	Max. 700	20	Max. 2.6 kg/2 pcs	61 g	20 pcs	360 pcs
170-090-015	AHS-24M	Brass	Polished	30.5	27	20	5.5	Max. 450	Max. 700	24	Max. 2.6 kg/2 pcs	71 g	20 pcs	360 pcs
170-090-016	AHS-24WB	Brass	Satin Nickel	30.5	27	20	5.5	Max. 450	Max. 700	24	Max. 2.6 kg/2 pcs	71 g	20 pcs	360 pcs

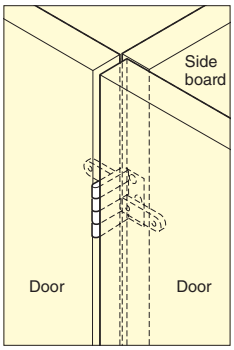
OVERLAY DOOR ANGLE HINGE

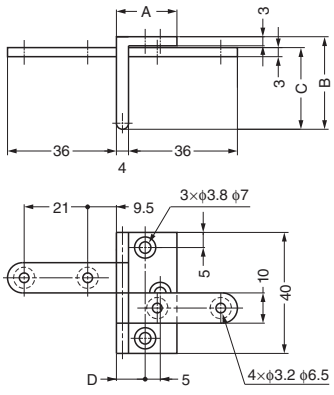
L=R AHW



■Remarks

Recommended for use in pairs.



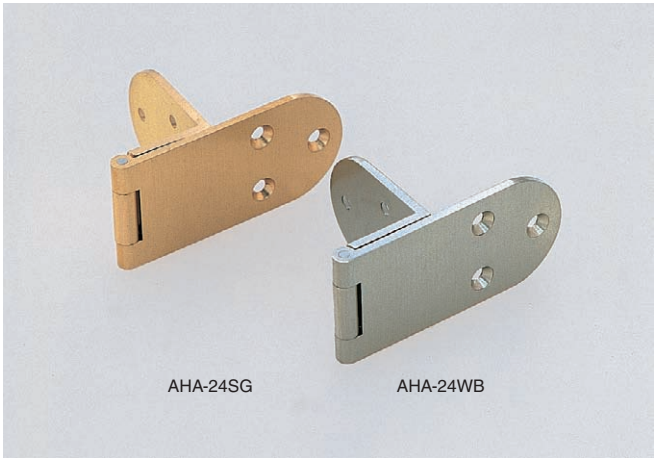


Item Code	Item Name	Material	Finish	A	B	C	D	Door				Weight	Box	Carton
								Width	Height	Thickness	Weight			
170-090-020	AHW-20M	Brass	Polished	17	26.5	22.5	8	Max. 450	Max. 700	20	Max. 2.6 kg/2 pcs	63 g	25 pcs	200 pcs
170-090-021	AHW-20WB	Brass	Satin Nickel	17	26.5	22.5	8	Max. 450	Max. 700	20	Max. 2.6 kg/2 pcs	63 g	25 pcs	200 pcs
170-090-025	AHW-24M	Brass	Polished	20	30.5	27	9.5	Max. 450	Max. 700	24	Max. 2.6 kg/2 pcs	72 g	20 pcs	80 pcs
170-090-026	AHW-24WB	Brass	Satin Nickel	20	30.5	27	9.5	Max. 450	Max. 700	24	Max. 2.6 kg/2 pcs	72 g	20 pcs	80 pcs

OVERLAY DOOR ANGLE HINGE

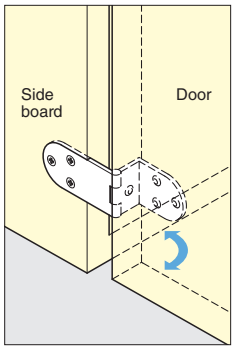
L=R

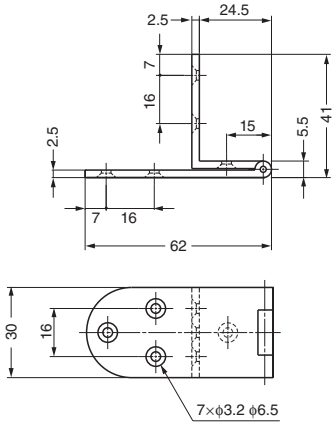
AHA-24



■Remarks

Recommended for use in pairs.



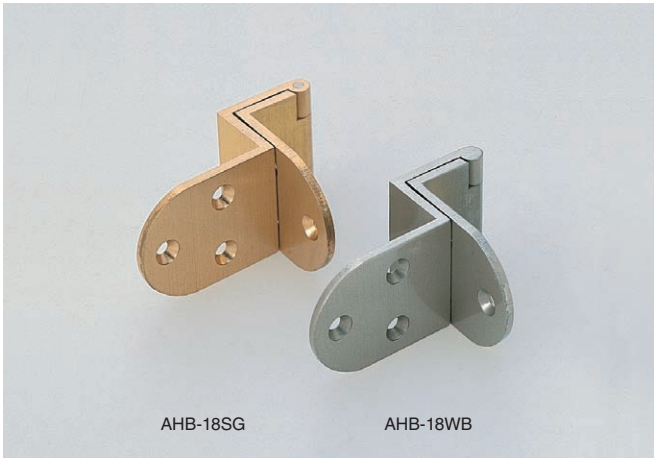


Item Code	Item Name	Material	Finish	Door				Weight	Box	Carton
				Width	Height	Thickness	Weight			
170-090-030	AHA-24SG	Brass	Satin Gold	Max. 450	Max. 700	24	Max. 2.6 kg/2 pcs	70 g	50 pcs	200 pcs
170-090-031	AHA-24WB	Brass	Satin Nickel	Max. 450	Max. 700	24	Max. 2.6 kg/2 pcs	70 g	50 pcs	200 pcs

OVERLAY DOOR ANGLE HINGE

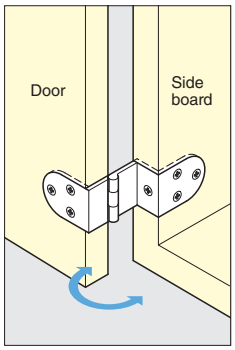
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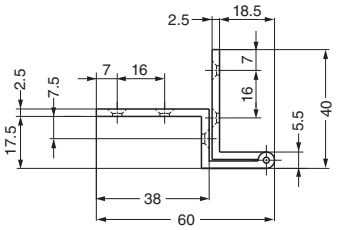
AHB-18

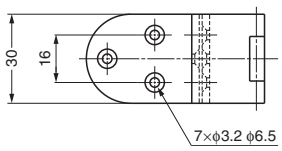


■Remarks

Recommended for use in pairs.







Item Code	Item Name	Material	Finish	Door				Weight	Box	Carton
				Width	Height	Thickness	Weight			
170-090-035	AHB-18SG	Brass	Satin Gold	Max. 450	Max. 700	18	Max. 2.6 kg/2 pcs	76 g	50 pcs	200 pcs
170-090-036	AHB-18WB	Brass	Satin Nickel	Max. 450	Max. 700	18	Max. 2.6 kg/2 pcs	76 g	50 pcs	200 pcs

DROP HINGE (ADJUSTABLE TYPE)

L=R

SDH-001



SDH-001



SDH-001BL

■Features

- Opening angle 90˚ .
- 3-way adjustment:
  Door gap : +1 mm / Horizontal : ±1 mm / Overlay : 14-16 mm
- Flush when opened, ideal for writing desk application.
- Can be used with soft-down stay SDS-100 (P.510) or NSDX-10 (P.518).
- Glass door type SDH-G (P.412) is also available.

■Recommended Screws

Pan head tapping screw 3×13

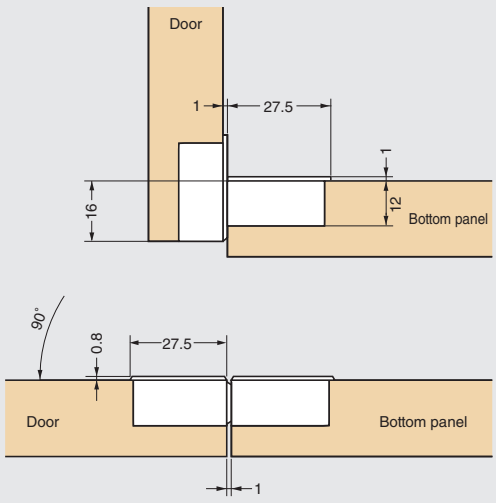
■Sold Separately

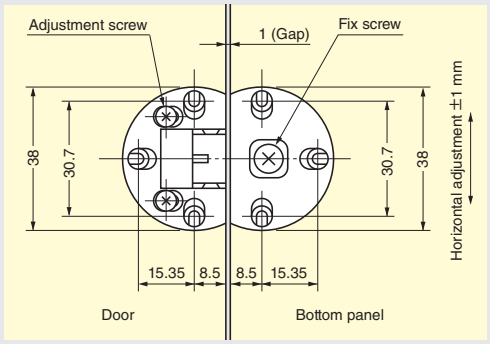
Pan head tapping screw 3×13 coated in black for SDH-001BL (300 pcs/1 pack)

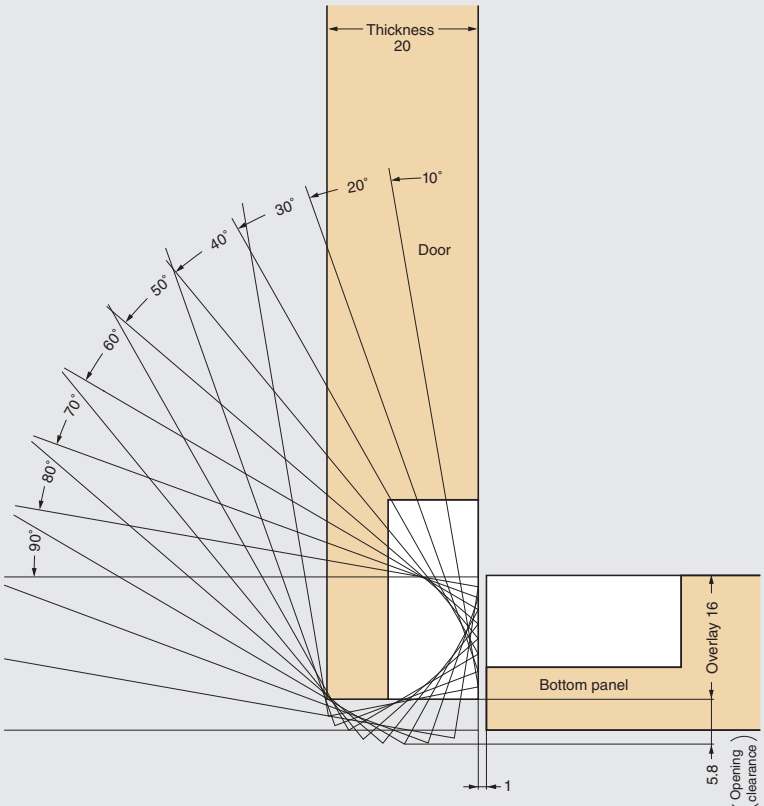
Item Code	Item Name	Material	Finish	Overlay	Door Thickness	Opening Angle	Weight	Box	Carton
170-090-471	SDH-001	Zinc Alloy (ZDC)	Nickel	14～16	16～20	90˚	85 g	50 pcs	200 pcs
170-010-648	SDH-001BL	Zinc Alloy (ZDC)	Black	14～16	16～20	90˚	85 g	50 pcs	200 pcs

■Pan Head Tapping Screw 3×13 in Black (For SDH-001BL)

Item Code	Item Name	1 pack
170-011-885	SDH-001-S-BL	300 pcs







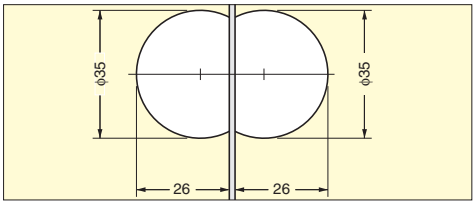
Example (door thickness : 20 mm / bottom panel : 20 mm / overlay : 16 mm)

■Application Example



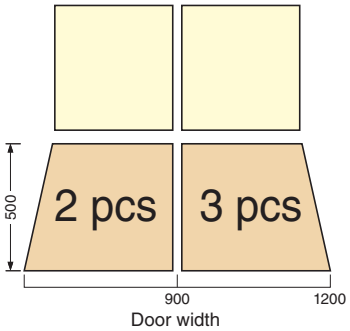
Combination of HDS-10 lid support (P.504).

■Cut Out Dimensions



■Number of Hinges

In case of door thickness up to 20 mm.
Material : particle board.



DROP HINGE (ADJUSTABLE TYPE)

L=R SDH-P



This is a computer graphic and does not show the actual product.

■Features

- 3-way adjustment.
  Overlay: 16-19 mm / Horizontal: ±1 mm / Door gap: 1-3 mm
- Can be used with soft-down stay SDS-100, SDS-100TV, NSDX-10(R/L)K, NSDX-10(R/L)K-TV, CSD-10-TV.

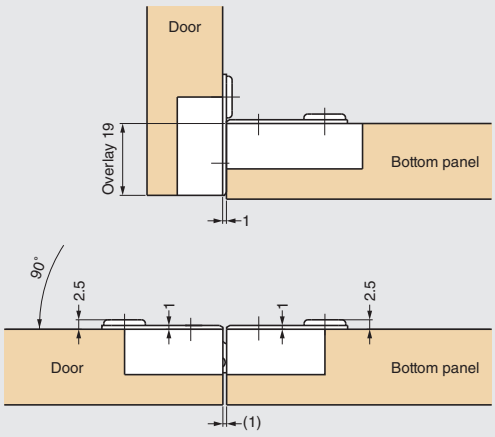
■Recommended Screws

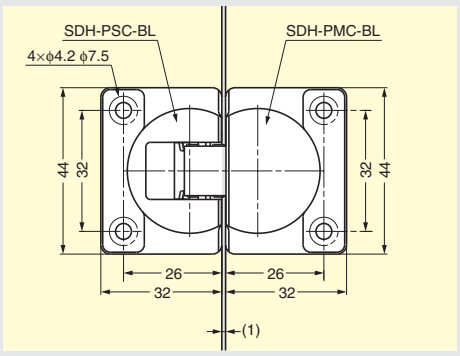
Pan head tapping screw 3.5

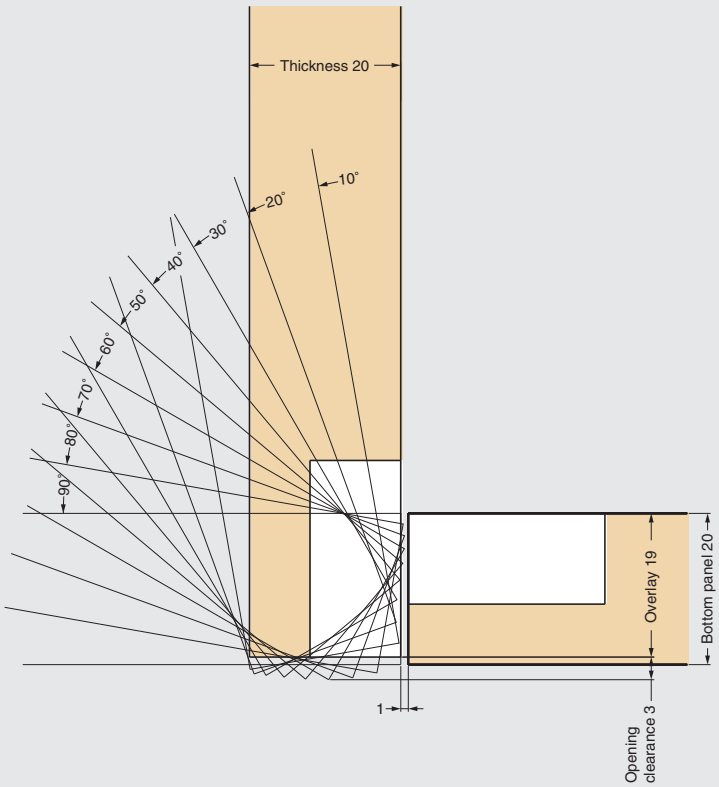
■Sold Separately

Cover cap SDH-PSC-BL and SDH-PMC-BL

Item Code	Item Name	Material	Finish	Overlay	Door Thickness	Opening Angle	Box	Carton
170-034-200	SDH-P	Steel	Nickel	16～19	16～20	90°	50 pcs	200 pcs
170-034-201	SDH-PSC-BL	POM	Black	—	—	—	50 pcs	1000 pcs
170-034-202	SDH-PMC-BL	POM	Black	—	—	—	50 pcs	1000 pcs

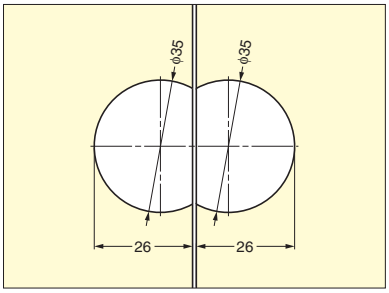






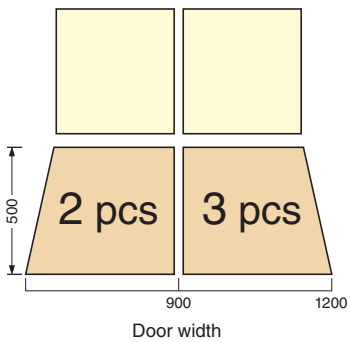
Example (door thickness: 20 mm / bottom panel: 20 mm / overlay: 19 mm)

■Cut Out Dimensions



■Number of Hinges

In case of door thickness up to 20 mm. Material: particle board.



DROP HINGE (FOR GLASS DOOR) L=R SDH-G


SDH-G

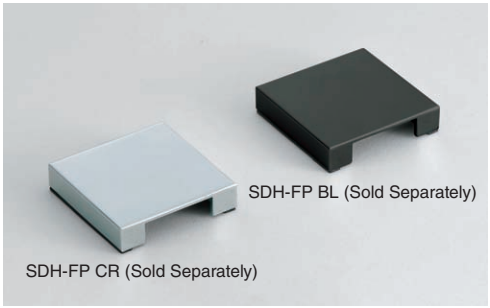
■Features

- Opening angle 90˚.
- 3-way adjustment:
  Door gap : 2-3 mm / Horizontal : ±1 mm / Overlay : 14-16 mm
- Can be used with soft-down stay SDS-100 (P.510) or NSDX-10 (P.518).

■Sold Separately

Face plate SDH-FP

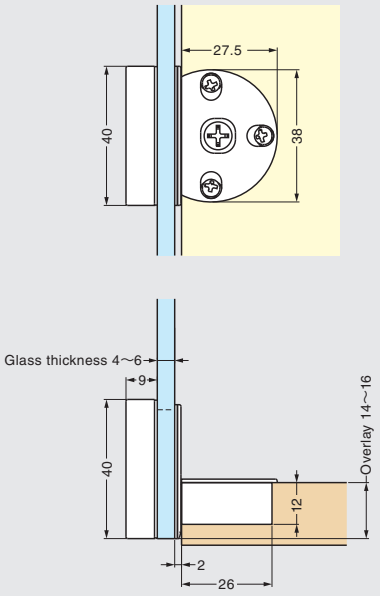
Item Code	Item Name	Material	Finish	Overlay	Glass Thickness	Opening Angle	Weight	Box
170-016-331	SDH-G	Zinc Alloy (ZDC)	Nickel	14～16	4～6	90˚	91 g	50 pcs

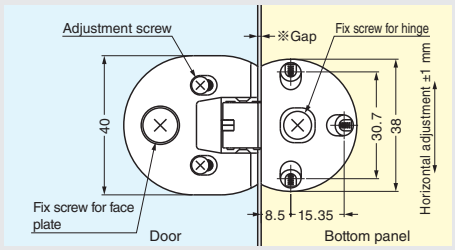

SDH-FP BL (Sold Separately)

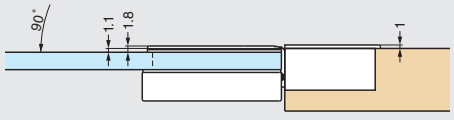
SDH-FP CR (Sold Separately)

■Face Plate (Sold Separately)

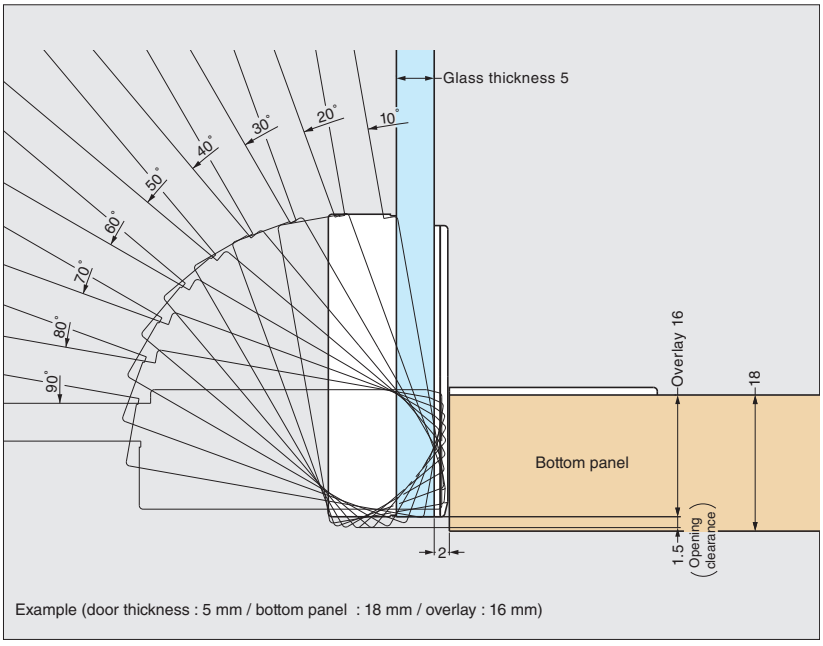
Item Code	Item Name	Material	Finish/Colour	Weight	Box
170-016-332	SDH-FP CR	Zinc Alloy (ZDC)	Chrome	43 g	50 pcs
170-016-333	SDH-FP BL	Zinc Alloy (ZDC)	Black	43 g	50 pcs





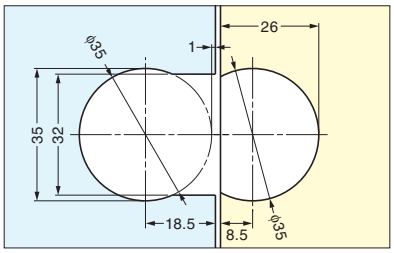


※Gap range:
Overlay 16 mm, gap 1 mm
Overlay 15 mm, gap 2 mm
Overlay 14 mm, gap 3 mm



Example (door thickness : 5 mm / bottom panel : 18 mm / overlay : 16 mm)

■Cut Out Dimensions



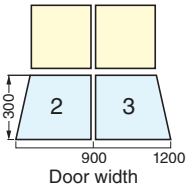
■Application Example




Combination with SDS-100-TV lid support (P.511).

■Qty of Hinges

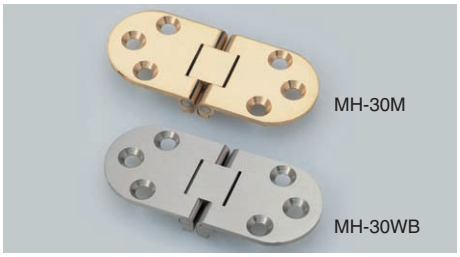
In case glass thickness is from 4 to 6 mm.

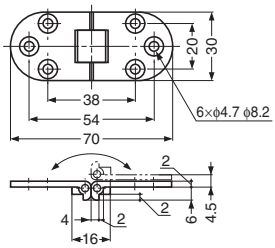


Door width

TABLETOP HINGE

L=R **MH-30**

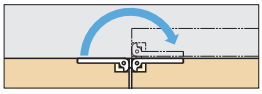




■**Features**

Double pivot hinge allows 180˚ opening.



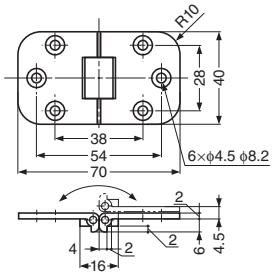


Item Code	Item Name	Material	Finish	Door Width	Door Height	Door Thickness	Door Weight	Weight	Box	Carton
170-090-052	MH-30M	Brass	Polished	Max. 450	Max. 700	Max. 21	Max. 4 kg/2 pcs	45 g	24 pcs	360 pcs
170-090-051	MH-30WB	Brass	Satin Nickel	Max. 450	Max. 700	Max. 21	Max. 4 kg/2 pcs	45 g	24 pcs	360 pcs
170-090-050	MH-30CR	Brass	Chrome	Max. 450	Max. 700	Max. 21	Max. 4 kg/2 pcs	45 g	24 pcs	360 pcs

TABLETOP HINGE

L=R **MH-40**

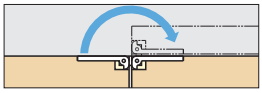




■**Features**

Double pivot hinge allows 180˚ opening.

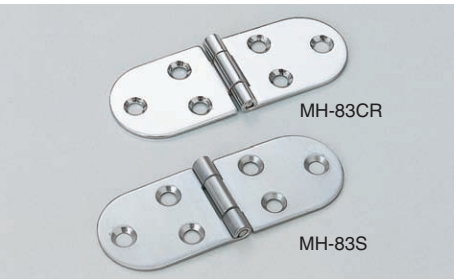


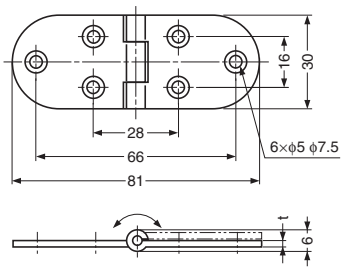


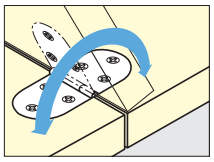
Item Code	Item Name	Material	Finish	Door Width	Door Height	Door Thickness	Door Weight	Weight	Box	Carton
170-090-057	MH-40M	Brass	Polished	Max. 450	Max. 700	Max. 21	Max. 4 kg/2 pcs	64 g	16 pcs	240 pcs
170-090-056	MH-40WB	Brass	Satin Nickel	Max. 450	Max. 700	Max. 21	Max. 4 kg/2 pcs	64 g	16 pcs	240 pcs
170-090-055	MH-40CR	Brass	Chrome	Max. 450	Max. 700	Max. 21	Max. 4 kg/2 pcs	64 g	16 pcs	240 pcs

TABLETOP HINGE

L=R STAINLESS 304 STEEL **MH-83**





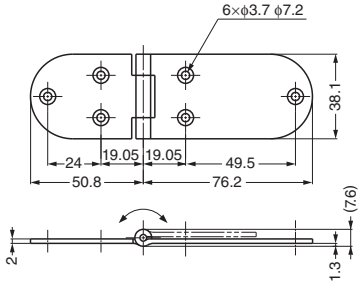


Item Code	Item Name	Material	Finish	t	Door Width	Door Height	Door Thickness	Door Weight	Weight	Box	Carton
170-090-046	MH-83CR	Steel	Chrome	1.6	Max. 450	Max. 700	Max. 21	Max. 4 kg/2 pcs	31 g	100 pcs	1000 pcs
170-090-045	MH-83S	Stainless Steel (SUS304)	Satin	1.5	Max. 450	Max. 700	Max. 21	Max. 4 kg/2 pcs	28 g	100 pcs	1000 pcs

TABLETOP HINGE

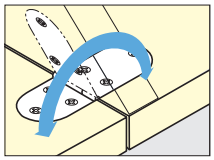
L=R STAINLESS 304 STEEL **MA-5**





■**Recommended Screw**

Countersunk head wood screw 3.5

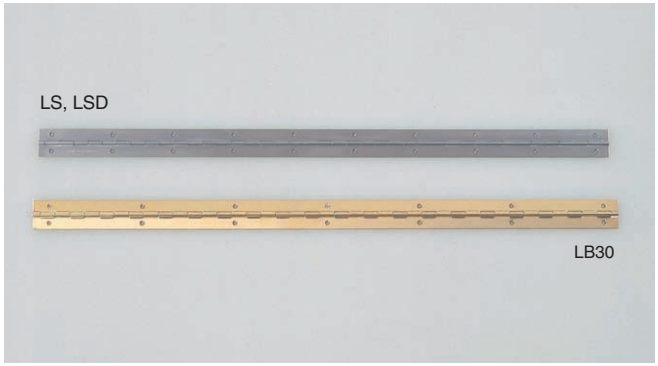


Item Code	Item Name	Material	Finish	Door Width	Door Height	Door Thickness	Door Weight	Weight	Box	Carton
170-918-023	MA-5	Stainless Steel (SUS304)	Mirror	Max. 450	Max. 700	Max. 21	Max. 4 kg/2 pcs	77 g	35 pcs	350 pcs

PIANO HINGE

L=R STAINLESS 430 STEEL STAINLESS 304 STEEL

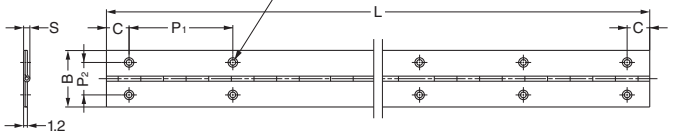
LS, LSD, LB30, LB45



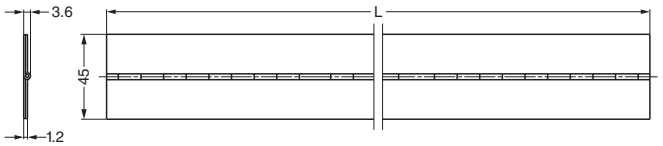
■Features

- Double folded construction provides extra rigidity.
- Can be cut to any length.
- In case of cutting the hinge, attention should be paid to prevent the pin from coming out.

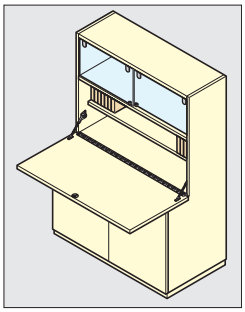
●LS, LSD, and LB30



●LB45



■Application Example



●LS, LSD, and LB30

Item Code	Item Name	Material	Finish	L	B	C	P_1	P_2	Qty of Holes N	d	S	Weight	Box	Carton
170-090-240	LS- 240	Stainless Steel (SUS430)	Satin	240	24.5	10.5	43.5	14.5	12	3	3.5	65 g	20 pcs	200 pcs
170-090-246	LSD- 240	Stainless Steel (SUS304)	Satin	240	30	10.5	43.5	17	12	3	3.5	65 g	20 pcs	200 pcs
170-090-241	LS- 300	Stainless Steel (SUS430)	Satin	300	24.5	10.5	46.3	14.5	14	3	3.5	80 g	20 pcs	200 pcs
170-090-247	LSD- 300	Stainless Steel (SUS304)	Satin	300	30	10.5	46.3	17	14	3	3.5	80 g	20 pcs	200 pcs
170-090-242	LS- 360	Stainless Steel (SUS430)	Satin	360	30	15	47	17	16	3	3.5	105 g	20 pcs	200 pcs
170-090-248	LSD- 360	Stainless Steel (SUS304)	Satin	360	30	15	47	17	16	3	3.5	105 g	20 pcs	200 pcs
170-090-243	LS- 450	Stainless Steel (SUS430)	Satin	450	30	14.5	60	17	16	3	3.5	135 g	20 pcs	200 pcs
170-090-249	LSD- 450	Stainless Steel (SUS304)	Satin	450	30	14.5	60	17	16	3	3.5	135 g	20 pcs	200 pcs
170-090-244	LS- 600	Stainless Steel (SUS430)	Satin	600	30	14	63.3	17	20	3	3.5	190 g	20 pcs	200 pcs
170-090-250	LSD- 600	Stainless Steel (SUS304)	Satin	600	30	14	63.3	17	20	3	3.5	190 g	20 pcs	200 pcs
170-090-245	LS- 900	Stainless Steel (SUS430)	Satin	900	30	14	62.3	17	30	3	3.5	270 g	20 pcs	100 pcs
170-090-251	LSD- 900	Stainless Steel (SUS304)	Satin	900	30	14	62.3	17	30	3	3.5	270 g	20 pcs	100 pcs
170-090-252	LB30- 900	Brass	Polished	900	30	15	79	18	24	3.3	3.6	290 g	10 pcs	100 pcs
170-090-253	LB30-1200	Brass	Polished	1200	30	15	83.6	18	30	3.3	3.6	385 g	10 pcs	100 pcs
170-090-254	LB30-1800	Brass	Polished	1800	30	15	80.5	18	46	3.3	3.6	600 g	10 pcs	100 pcs

●LB45

Item Code	Item Name	Material	Finish	L	Weight	Box	Carton
170-090-255	LB45-1200	Brass	Polished	1200	570 g	10 pcs	30 pcs
170-090-256	LB45-1800	Brass	Polished	1800	840 g	10 pcs	30 pcs

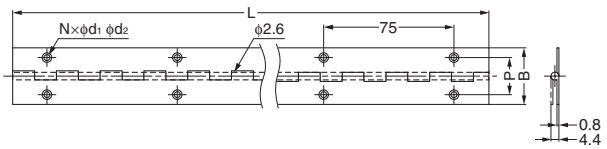
PIANO HINGE

L=R STAINLESS 304 STEEL **LHN**

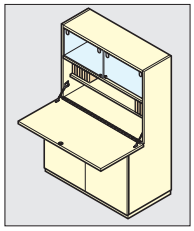


■Features

- Can be cut to any length.
- In case of cutting the hinge, attention should be paid to prevent the pin from coming out.



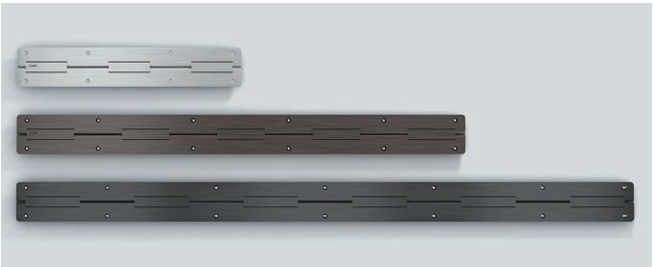
■Application Example



Item Code	Item Name	Material	Finish	L	B	P	Qty of Holes N	d_1	d_2	Weight	Box
170-097-846	LHN-32-1200	Stainless Steel (SUS304)	Polished	1200	32	20	32	4	5.2	400 g	30 pcs
170-097-847	LHN-32-1500	Stainless Steel (SUS304)	Polished	1500	32	20	40	4	5.2	425 g	30 pcs
170-097-848	LHN-32-1872	Stainless Steel (SUS304)	Polished	1872	32	20	50	4	5.2	530 g	30 pcs
170-097-849	LHN-32-2100	Stainless Steel (SUS304)	Polished	2100	32	20	56	4	5.2	595 g	30 pcs
170-097-850	LHN-38-1200	Stainless Steel (SUS304)	Polished	1200	38	22.5	32	4.6	6	400 g	30 pcs
170-097-843	LHN-38-1500	Stainless Steel (SUS304)	Polished	1500	38	22.5	40	4.6	6	480 g	30 pcs
170-097-844	LHN-38-1872	Stainless Steel (SUS304)	Polished	1872	38	22.5	50	4.6	6	600 g	30 pcs
170-097-845	LHN-38-2100	Stainless Steel (SUS304)	Polished	2100	38	22.5	56	4.6	6	670 g	30 pcs

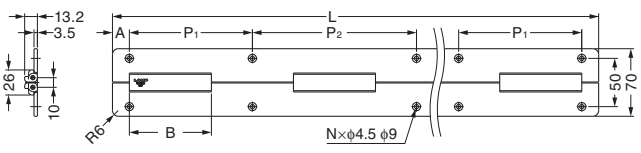
TABLETOP PIANO HINGE

L=R STEEL **HG-MH**

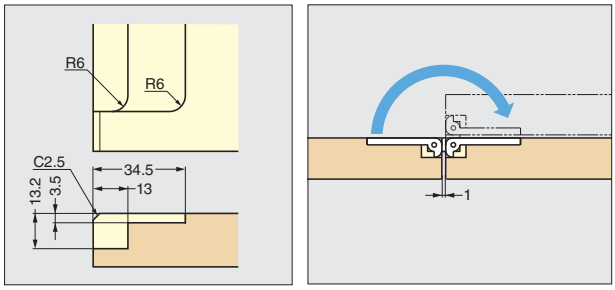


■Features

- Opening angle 180° thanks to the double joint mechanism.
- Can be cut easily.
- In case of cutting the hinge, attention should be paid to prevent the pin from coming out.



■Cut Out Dimensions

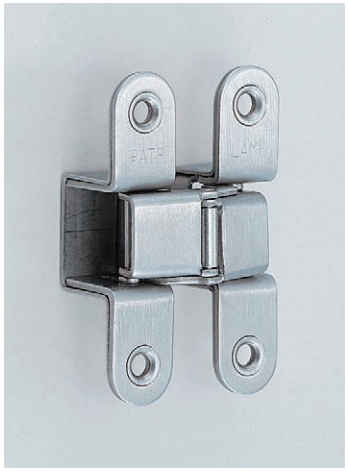


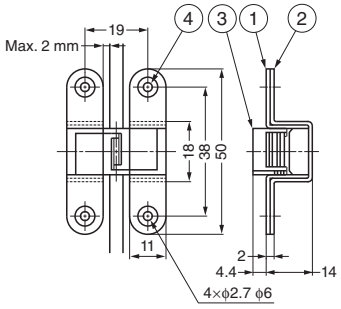
Item Code	Item Name	Material	Finish	L	A	P_1	P_2	B	Qty of Holes N	Weight	Box
170-012-587	HG-MH400S	Aluminium Alloy	Anodized/Stainless Finish	400	15	111	148	74	8	452 g	15 pcs
170-012-588	HG-MH400BR	Aluminium Alloy	Anodized/Brown	400	15	111	148	74	8	452 g	15 pcs
170-012-589	HG-MH400BL	Aluminium Alloy	Anodized/Black	400	15	111	148	74	8	452 g	15 pcs
170-012-590	HG-MH800S	Aluminium Alloy	Anodized/Stainless Finish	800	17.5	127.5	170	85	12	908 g	10 pcs
170-012-591	HG-MH800BR	Aluminium Alloy	Anodized/Brown	800	17.5	127.5	170	85	12	908 g	10 pcs
170-012-592	HG-MH800BL	Aluminium Alloy	Anodized/Black	800	17.5	127.5	170	85	12	908 g	10 pcs
170-012-593	HG-MH1100S	Aluminium Alloy	Anodized/Stainless Finish	1100	16.5	145.5	194	97	14	1,236 g	8 pcs
170-012-594	HG-MH1100BR	Aluminium Alloy	Anodized/Brown	1100	16.5	145.5	194	97	14	1,236 g	8 pcs
170-012-595	HG-MH1100BL	Aluminium Alloy	Anodized/Black	1100	16.5	145.5	194	97	14	1,236 g	8 pcs

CONCEALED HINGE

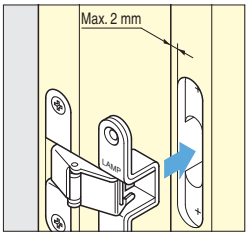
L=R STAINLESS 304 STEEL STAINLESS

RK-50





■Installation



■Features

For light door.

■Remarks

Recommended for use in pairs.

■Parts Included

Countersunk head wood screw 2.4×13 (SUS)

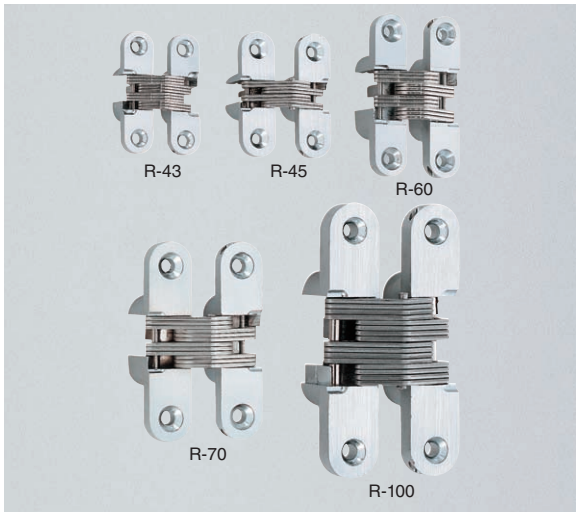
No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Cover	Stainless Steel (SUS304)	Plain
③	Arm	Stainless Steel (SUS304)	Satin
④	Eyelet	Stainless Steel (SUS304)	Plain
—	Other Axis Parts	Stainless Steel (SUS304)	Plain

Item Code	Item Name	Door Width	Door Height	Door Thickness	Door Weight	Opening Angle	Weight	Box	Carton
170-090-086	RK-50	Max. 450	Max. 700	Min. 15	Max. 2.6 kg/2 pcs	180°	28 g	24 pcs	240 pcs

CONCEALED HINGE

L=R STAINLESS

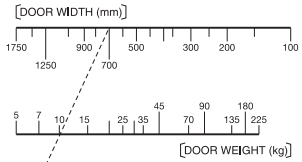
R



■Reference for Your Choice

To determine the number of hinges required for each door:

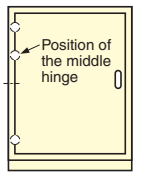
- Using the chart to the right, locate the correct door width (upper scale) and door weight (lower scale). Draw a line connecting these 2 points to the chart below (point "a"). Then draw a vertical line through the lower chart to find the number and type of hinges required.
- Check door thickness requirements.



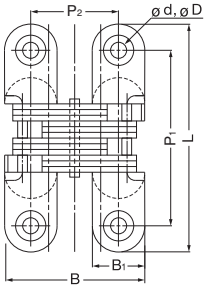
Item No.	Required Number Of Hinges (pcs)	"a"	Min. Door Thickness
R-43	2 / 3 / 4		13 mm
R-45	2 / 3 / 4		19 mm
R-60	2 / 3 / 4		19 mm
R-70	2 / 3 / 4		25 mm
R-100	2 / 3 / 4		29 mm

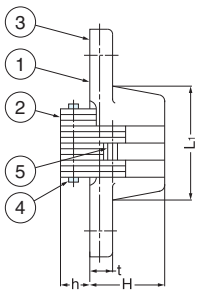
■Features

Door size: Max. W450 x H700 x t 21 mm



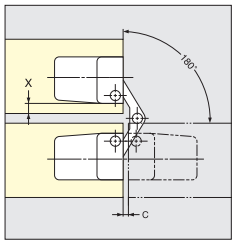
Example of 3 hinge installation.





■Parts Included

- Countersunk head wood screw (SUS)
- Countersunk head tapping screw (SUS) (R-70 only)



Distance between door edge and hinge must be less than the figures shown in column "X" of the dimension table below.

Item No.	Qty of Hinges
R- 43	3 pcs
R- 45	3 pcs
R- 60	3 pcs
R- 70	2 pcs
R-100	2 pcs

[In case of door width, 700 mm and door weight, 15 kg]

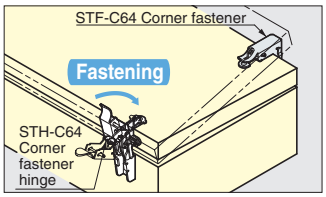
No.	Part Name	Material	Finish
①	Body	Zinc Alloy	Satin Chrome
②	Link Arm	304 Stainless Steel	Plain
③	Pin A	R-43/R-45/R-60/R-70: 304 Stainless Steel	
		R-100: Steel	
④	Pin B	R-43/R-45/R-60/R-100: Stainless Steel	
		R-70: 304 Stainless Steel	
⑤	Pin C	R-43/R-45/R-60/R-70: 304 Stainless Steel	
		R-100: Steel	

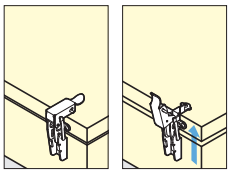
Item Code	Item Name	L	L₁	B	B₁	P₁	P₂	H	h	t	d	D	C	X	Screw	Number of Arm	Opening Angle	Weight	Box	Carton
170-090-079	R-43	43	22	29	11	32	18	13	5	5	3.5	6.2	0.8	2.3	3.1×16	12	180°	42 g	30 pcs	300 pcs
170-090-084	R-45	45	19	35.7	13	32	22.7	18.5	6	5	3.5	7	0.8	3	3.1×20	8	180°	61 g	20 pcs	200 pcs
170-090-081	R-60	60	33	35.2	13	47	22.2	18.5	6.5	6.5	4.3	8.3	1	3	3.5×20	12	180°	104 g	10 pcs	100 pcs
170-095-200	R-70	70	35	42.6	16.1	53	26.6	23	7.3	7	4.6	9.1	1.2	3.5	4 ×25	12	180°	164 g	10 pcs	100 pcs
170-095-201	R-100	100	52	53.2	20	80	33.2	27.5	9.5	9.5	5.3	10	1.8	4.8	4.5×32	16	180°	351 g	10 pcs	60 pcs

CORNER FASTENER HINGE (W/ LOCK)

L=R STAINLESS 304 STEEL **STH-C64**



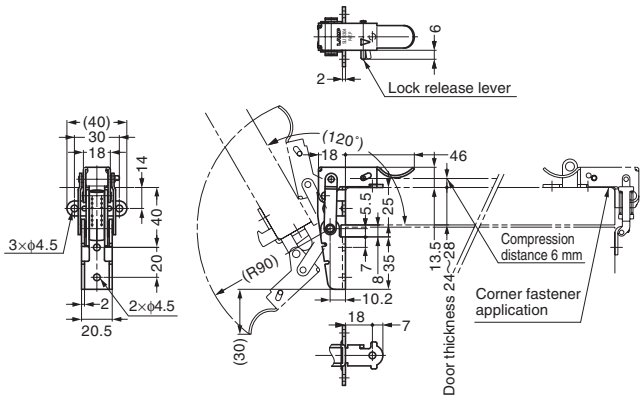




Pull the lever and lift the latch to open the lid.

■Features

- Compresses cover to achieve better sealing.
- Works with STF-C64 fastener (P.278).
- To be used with rubber gasket.
- Locks when fastened to prevent accidental release.



1.



After locked.

2.



Pull the lever and lift the latch.

3.



Release the lock of the fastener to open the lid.

Item Code	Item Name	Material	Finish	Door Width	Door Height	Door Thickness	Door Weight	Weight	Box	Carton
170-091-430	STH-C64	Stainless Steel (SUS304)	Mirror	Max. 300	Max. 400/2 pcs	24~28	Max. 2.8 kg/2 pcs	93 g	10 pcs	140 pcs

CONCEALED HINGE (W/ STAY)

L=R STAINLESS 304 STEEL **HG-YS65C**

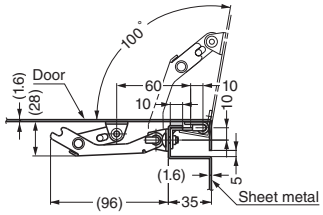


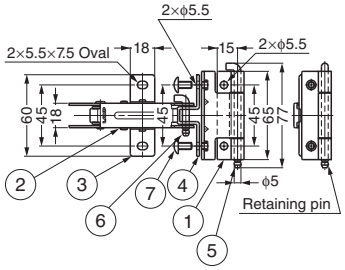
■Features

- Combination of hinge and stay.
- Designed for sheet metal application.
- Stay holds door at 100° open position.
- Removable pin (included) allows easy door installation.
- Holding force: 30 kgf・cm/piece.
- Door weight: Max. 10 kg/pair.

■Remarks

Ring retainer for pins not included.

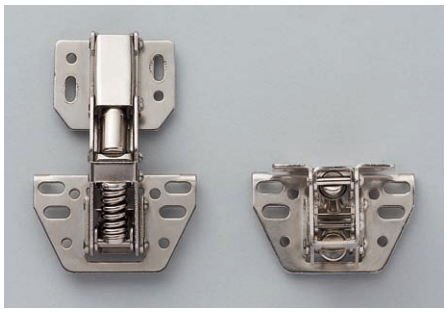


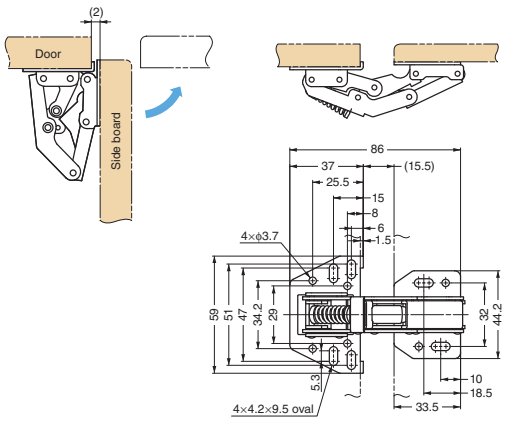


No.	Part Name	Material	Finish
①	Hinge	SUS304	Polished
②	Stay		
③	Bracket		
④	Hinge Bracket		
⑤	Pin		–
⑥	Hinge Bracket Pin		
⑦	Truss Head Tapping Screw M5×10 (Included)	SUS	

Item Cade	Item Name	Door Weight	Retaining Force	Weight	Box	Carton
170-100-087	HG-YS65C	Max. 10 kg/2 pcs	Approx. 294 N·cm (30 kgf·cm)/pc	190 g	10 pcs	100 pcs

CONCEALED HINGE (SURFACE MOUNT) L=R 2000RV-2

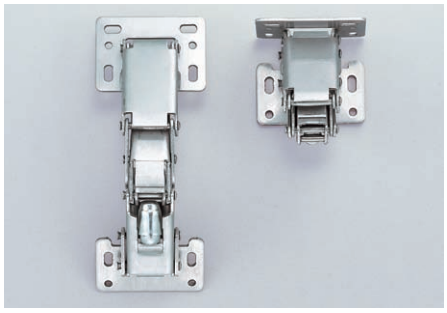




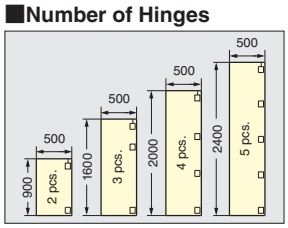
■Features
- Suitable for upward-opening flaps.
- No need to cut-out on flaps.
- With catch.

Item Code	Item Name	Material	Finish	Weight	Carton
170-090-034	2000RV-2	Steel	Nickel	97 g	100 pcs

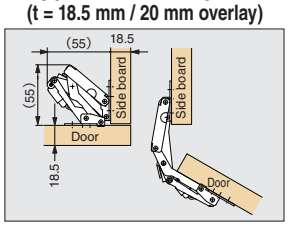
CONCEALED HINGE (SURFACE MOUNT) L=R 2000-150

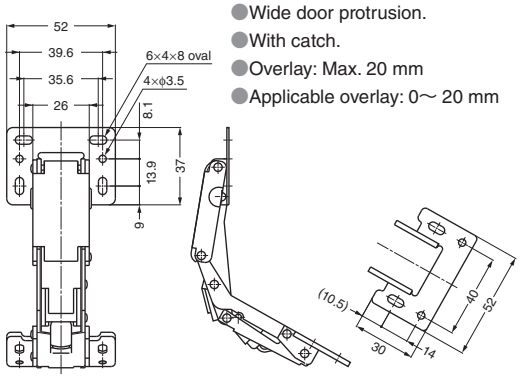


■Number of Hinges



■Application Example
(t = 18.5 mm / 20 mm overlay)





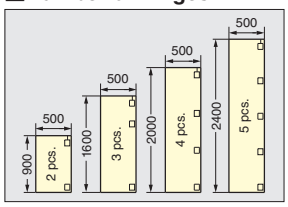
■Features
- No need to cut-out on doors.
- Can be used both for inset and overlay doors.
- Wide door protrusion.
- With catch.
- Overlay: Max. 20 mm
- Applicable overlay: 0～ 20 mm

Item Code	Item Name	Material	Finish	Door Thickness	Opening Angle	Weight	Carton
170-090-884	2000-150	Steel	Nickel	Max. 20	150°	149 g	100 pcs

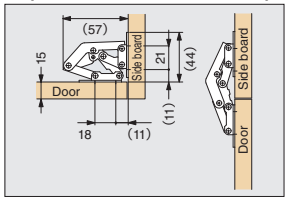
CONCEALED HINGE (SURFACE MOUNT) L=R 2000-MIGNON

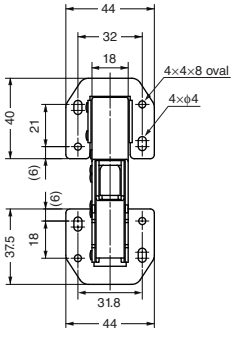


■Number of Hinges



■Application Example
(t = 15 mm / Inset doors)







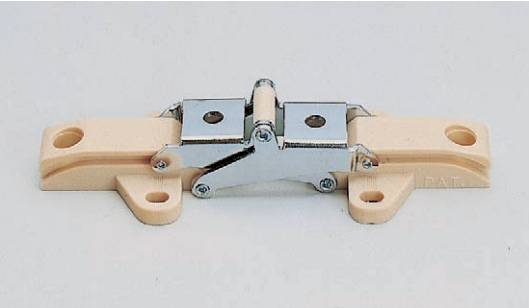
■Features
- No need to cut-out on doors.
- Can be used both for inset and overlay doors.
- With catch.
- Overlay: Max. 20 mm
- Applicable overlay: 0～ 20 mm

Item Code	Item Name	Material	Finish	Door Thickness	Opening Angle	Weight	Box	Carton
170-090-001	2000-MIGNON	Steel	Nickel	Max. 20	90°	70 g	20 pcs	200 pcs

CONCEALED HINGE (SURFACE MOUNT)

L=R

T-90-200



■Features

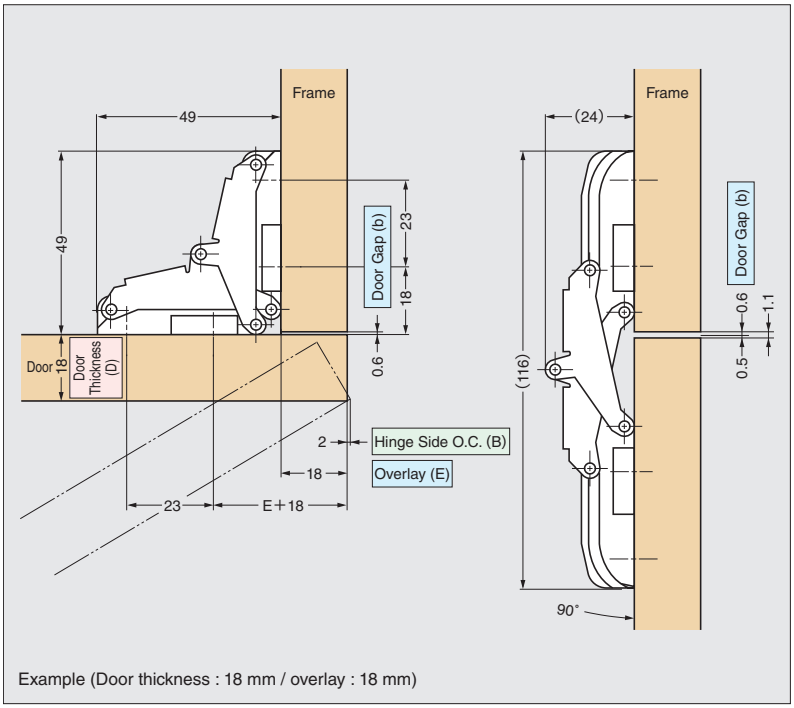
- Opening angle 90˚ .
- Can be used both for inset and overlay doors.
- Without catch.

■Recommended Screws

Pan head tapping screw size 4

Part Name	Material	Finish/Colour
Body	Polyamide (PA)	Ivory
Arm	Steel	Chrome

Item Code	Item Name	Type	Overlay	Door Thickness	Opening Angle	Weight	Carton
170-090-090	T-90-200	Without Catch	15～18	15～18	90˚	42 g	200 pcs



Example (Door thickness : 18 mm / overlay : 18 mm)

■Hinge Side O.C. (B)

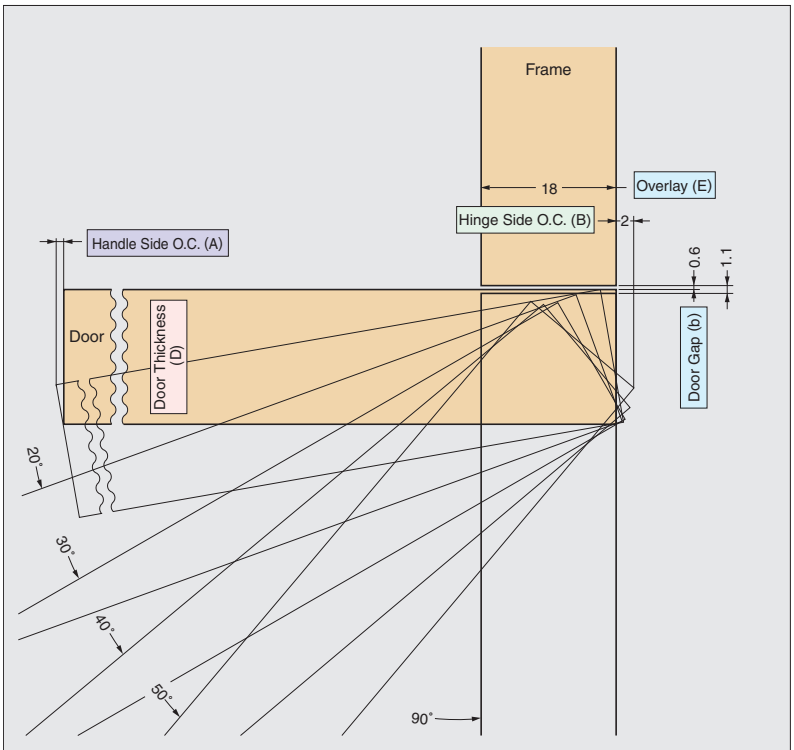
Door Thickness (D)	Overlay (E)			
	15	16	17	18
15	1.1	0.5	0	0
16	2.0	1.4	0.8	0.2
17	2.9	2.3	1.7	1.1
18	3.8	3.2	2.6	2.0
	Hinge Side O.C. (B)			

■Handle Side O.C. (A)

Door Thickness (D)	Door Width		
	300	400	500
15	0.5	0.4	0.3
16	0.5	0.4	0.4
17	0.5	0.4	0.4
18	0.5	0.4	0.4
	Handle Side O.C. (A)		

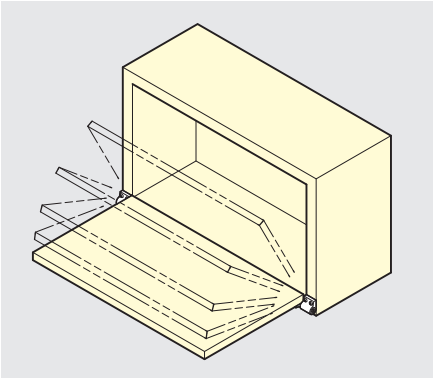
■Overlay (E) and Door Gap (b)

Overlay (E)	15	16	17	18
Door Gap (b)	0.2	0.3	0.5	0.6



Example (Door and side board thickness : 18 mm / overlay : 18 mm)

DAMPER HINGE DIGEST



■Features

- Hinge with soft-close damping mechanism controls the closing speed of the door and can reduce the door opening and closing shock.
- Wide range of soft-close damping hinges.

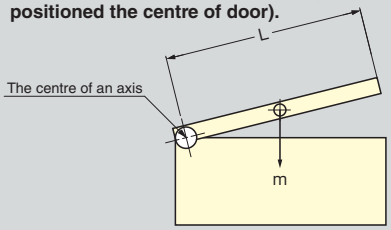
■Application

Showcase, Piano, Dresser, Small lid in kitchen etc.

■How to Select

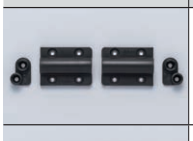
- Check the torque moment (T) by following the calculation of the figure on the right.
- Choose the hinge that the torque moment will be matched with torque moment (T).

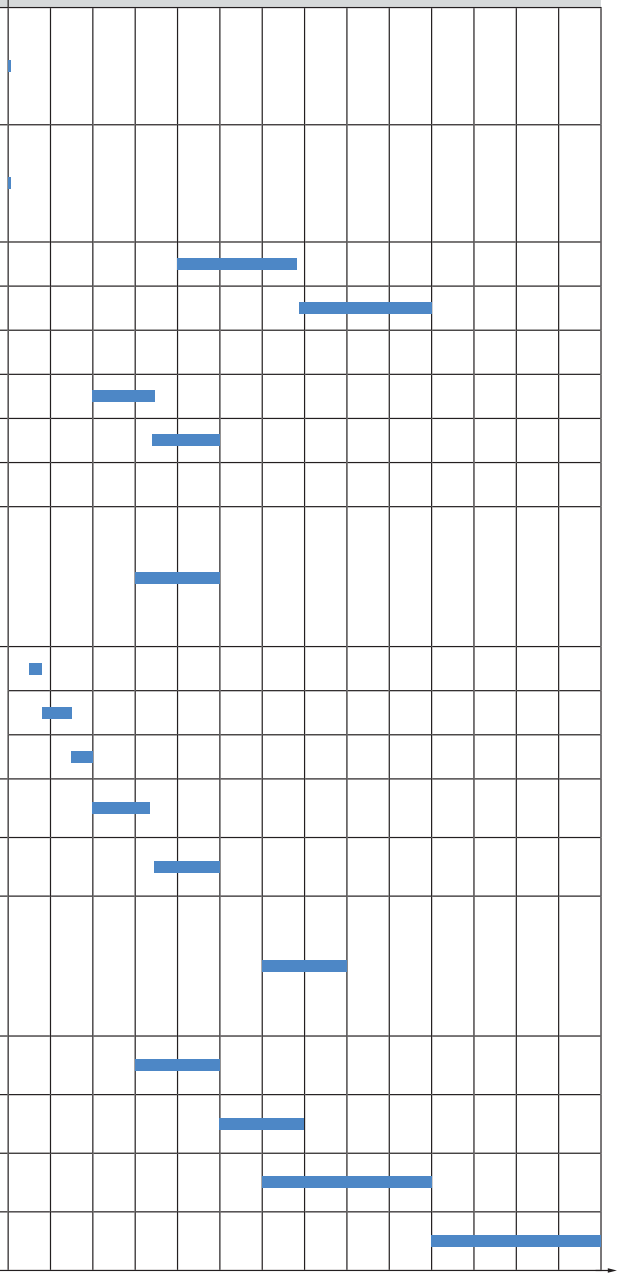
How to calculate the torque moment (in case the door has its centre of gravity positioned the centre of door).



T：Door torque moment
m：Door weight (kg)
L：Length from the centre of an axis to door edge (m).

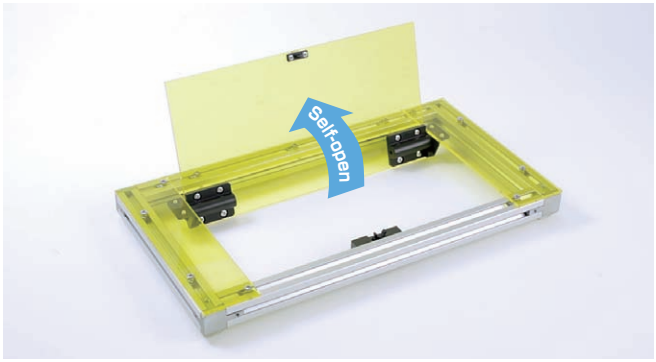
T (N·m)=m×9.8×L/2
T (kgf·cm)=m×L/2×100

Picture	Item Name	Torque Moment (Per pair) N·m	Torque Moment (Per pair) kgf・cm	Page
	HG-JHS9-S(U)-BL(WT)	0.027～0.043	0.28～0.44	P.421
	HG-JHM9-S(U)-BL(WT)	0.054～0.086	0.55～0.88	P.422
	HG-JHW16S-34(G)	4 ～6.8	40.8～69.4	P.428
	HG-JHW16S-50(G)	6.8 ～10	69.4～102	P.428
	HG-JHW16S-00	Without Soft-Close Damping Mechanism		P.428
	HG-CSH63A(B)M	2 ～3.4	20.4～34.6	P.447
	HG-CSH63A(B)H	3.4 ～5	34.6～51	P.447
	HG-CSH63	Without Soft-Close Damping Mechanism		P.447
	HG-JH14-50	3 ～5	30.6～51	P.428
	HG-JHM14-S-8BL(WT)	0.5 ～0.8	5.09～8.15	P.424～425
	HG-JHM14-S-15BL(WT)	0.8 ～1.5	8.15～15.29	
	HG-JHM14-S-20BL(WT)	1.5 ～2	15.29～20.39	
	HG-JHM16-34BL(WT)	2 ～3.4	20.4～34.7	P.426
	HG-JHM16-50BL(WT)	3.4 ～5	34.7～51	P.426
	HG-JHM20-80BL(WT)	6 ～8	61.2～81.6	P.427
	HG-JH25	3 ～5	30.6～51	P.429
	HG-JH35	5 ～7	51 ～71.4	P.429
	HG-JHW50(G)	6 ～10	61.2～102	P.429
	HG-JHW70(G)	10 ～14	102 ～142.8	P.429



SELF-OPEN MINI DAMPER HINGE

Lapcon **HG-JHS9**



Application example with a push-latch.



HG-JHS9-S-BL (Side Mount)



HG-JHS9-U-WT (Under Mount)

■Features

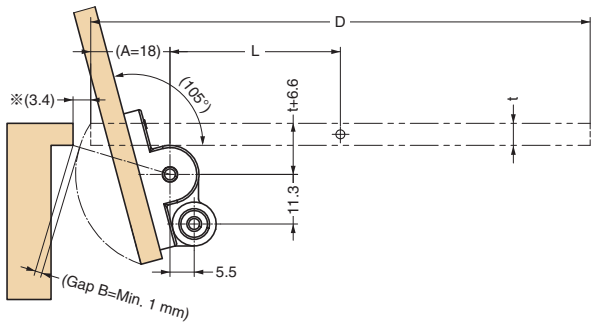
- Small damper hinge with self-opening function for top-opening lids.
- Using with a push-latch enables pop-up function of the lid.
- Inset use.
- Opening speed of the lid can easily be adjusted with a hex wrench.

■Maximum Lid Torque Calculation

Video Link

T=M×L×9.8

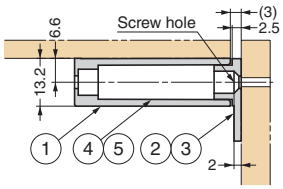
T : Maximum lid torque (cN・m)
M : Lid weight (kg)
L : Distance from rotation centre to lid centre of gravity (cm)
L = D/2-A
D : Lid length (cm)
A : Length of lid back from rotation centre (cm)
t : Door thickness

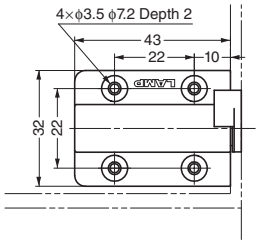


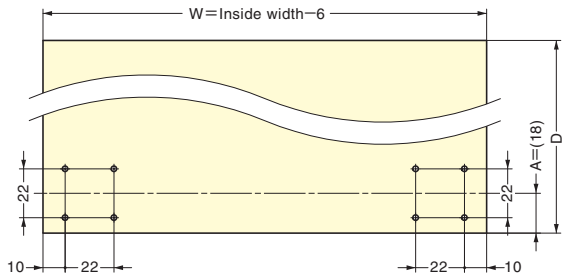
- Make sure that the gap B is Min. 1 mm.
- Please provide a stopper to hold the lid at the closed position.

※In case of t = 5 mm, B = 1 mm.

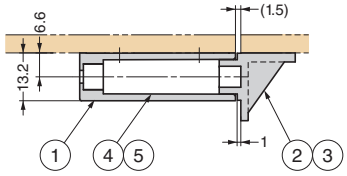
■Side Mount Type

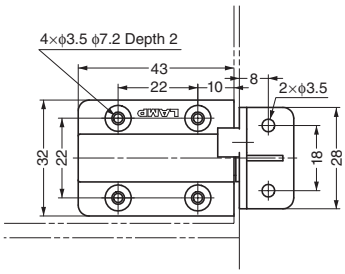


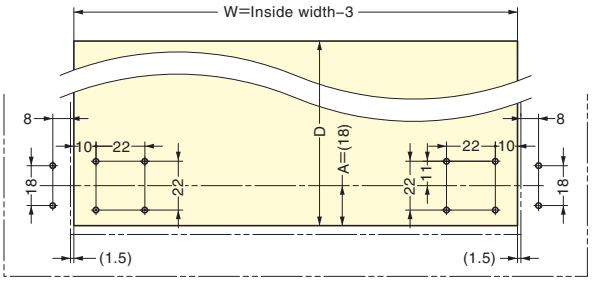




■Under Mount Type





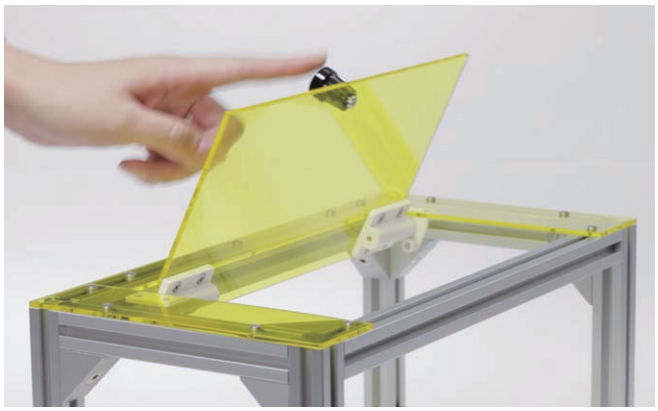


No.	Part Name	Material	Colour
①	Body	Polyacetal (POM)	Black, White
②	Bracket R	PBT	Black, White
③	Bracket L	PBT	Black, White
④	Damper Unit (R)	Polyacetal (POM)	—
⑤	Spring Unit (L)	Zinc Alloy (ZDC)/Stainless Steel	Chromate/—

Item Code	Item Name	Type	Colour	Torque Moment (Per pair)		Weight	Box	Carton
170-028-293	HG-JHS9-S-BL	Side Mount	Black	2.7～4.3 cN・m	0.28～0.44 kgf・cm	39 g	40 sets	440 sets
170-028-294	HG-JHS9-S-WT	Side Mount	White	2.7～4.3 cN・m	0.28～0.44 kgf・cm	39 g	40 sets	440 sets
170-028-295	HG-JHS9-U-BL	Under Mount	Black	2.7～4.3 cN・m	0.28～0.44 kgf・cm	42 g	35 sets	385 sets
170-028-296	HG-JHS9-U-WT	Under Mount	White	2.7～4.3 cN・m	0.28～0.44 kgf・cm	42 g	35 sets	385 sets

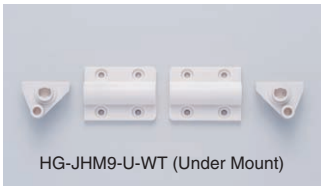
MINI DAMPER HINGE

Lapcon **HG-JHM9**





HG-JHM9-S-BL (Side Mount)



HG-JHM9-U-WT (Under Mount)

■Features

- Hinge with built-in damper keeps lids from slamming shut.
- Ideal for small covers of desktop sockets.
- Sold in pairs.

■Recommended Screws

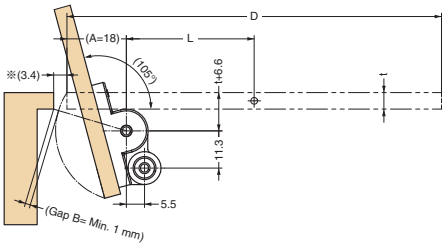
- Side Mount: Countersunk head screw M3, Binding head screw M3, Countersunk head tapping screw 3, Binding head tapping screw 3
- Under Mount: Binding head screw M3, Binding head tapping screw 3

■Maximum Lid Torque Calculation

T=M×L×9.8

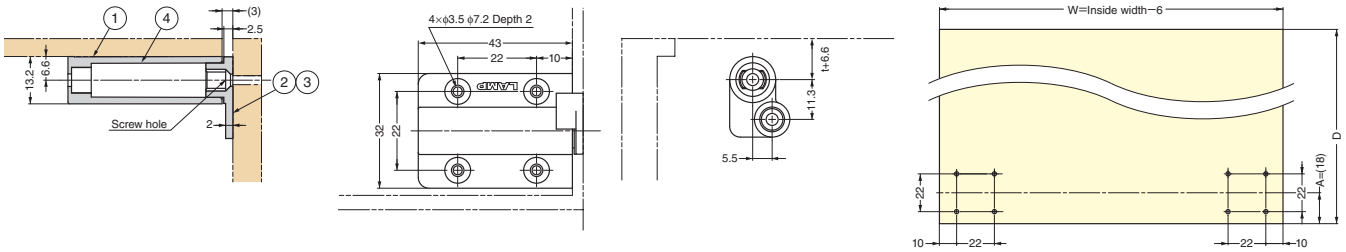
T : Maximum lid torque (cN・m)
M : Lid weight (kg)
L : Distance from rotation centre to lid centre of gravity (cm)
L = D/2-A
D : Lid length (cm)
A : Length of lid back from rotation centre (cm)
t : Door thickness

Video Link

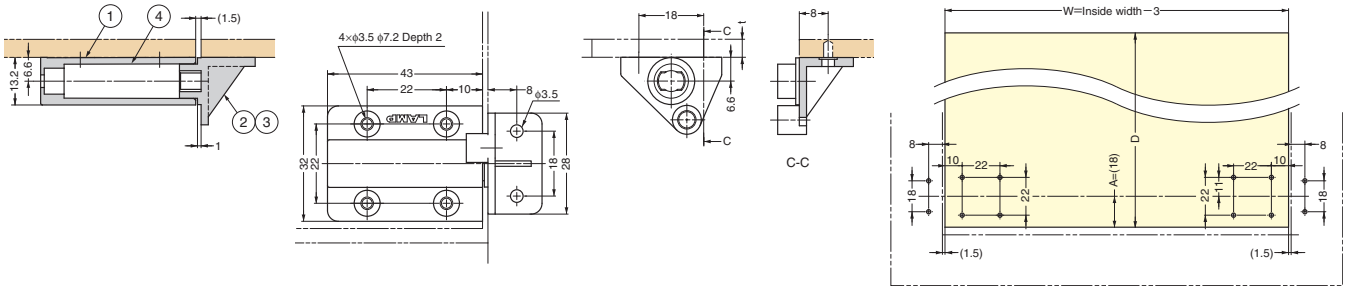


• Make sure that the gap B is Min. 1 mm.
• Please provide a stopper to hold the lid at the closed position.
※In case of t = 5 mm, B = 1 mm.

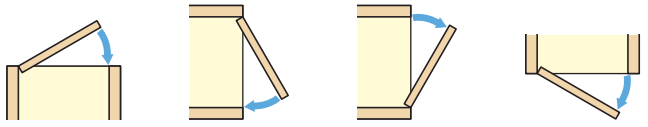
■Side Mount Type



■Under Mount Type



■Damping Direction



Top-opening　Upward-opening　Downward-opening　Bottom-opening

No.	Part Name	Material	Colour
①	Body	Polyacetal (POM)	Black, White
②	Bracket R	PBT	Black, White
③	Bracket L	PBT	Black, White
④	Damper	Polyacetal (POM)	—

Item Code	Item Name	Type	Colour	Torque Moment (Per pair)		Weight	Box	Carton
170-025-895	HG-JHM9-S-BL	Side Mount	Black	5.4～8.6 cN・m	0.55～0.88 kgf・cm	29 g	40 sets	440 sets
170-025-896	HG-JHM9-S-WT	Side Mount	White	5.4～8.6 cN・m	0.55～0.88 kgf・cm	29 g	40 sets	440 sets
170-025-897	HG-JHM9-U-BL	Under Mount	Black	5.4～8.6 cN・m	0.55～0.88 kgf・cm	31 g	35 sets	385 sets
170-025-898	HG-JHM9-U-WT	Under Mount	White	5.4～8.6 cN・m	0.55～0.88 kgf・cm	31 g	35 sets	385 sets

COMBINATION HINGE

Lapcon **HG-VH8**



■Features

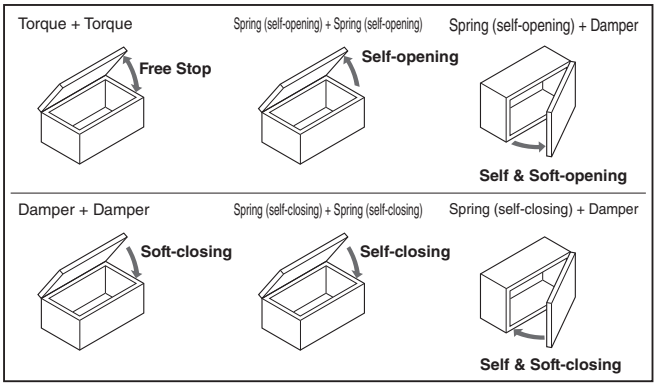
- Hinges for light weight lids, doors.
- Various motions in the same appearance.
- Various combinations such as self-opening hinge + damper hinge (refer to "Possible combinations").

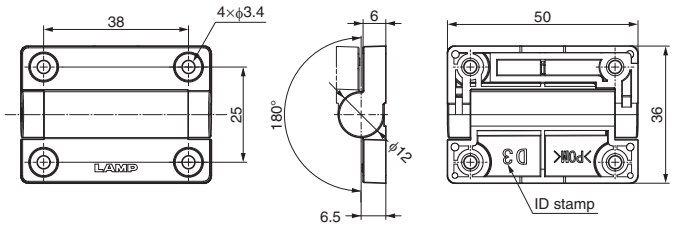
■Remarks

- Operating temperature: 0˚C ～ 40˚C
- Secure to align the centre of axis horizontally when used in pairs.

■Recommended Screws

Bind head machine screw M3





Item Code	Item Name	ID Stamp	Colour	Material	Part Built In	Torque Moment (Per piece)	Weight	Box	Carton
170-032-616	HG-VH8-N-BL	N	Black	Polyacetal (POM)	–	–	11 g	40 pcs	640 pcs
170-032-617	HG-VH8-N-WT		White				11 g	40 pcs	640 pcs
170-032-618	HG-VH8-D3-BL	D3	Black		Damper	2.2～ 3.8 cN・m (0.22～0.39 kgf・cm)	14 g	40 pcs	640 pcs
170-032-619	HG-VH8-D3-WT		White				14 g	40 pcs	640 pcs
170-032-620	HG-VH8-OP-BL	OP	Black		Spring (self-opening)	*increase 1.53 cN・m (0.16 kgf・cm) by 30˚ of revolution	18 g	40 pcs	640 pcs
170-032-621	HG-VH8-OP-WT		White				18 g	40 pcs	640 pcs
170-032-622	HG-VH8-CL-BL	CL	Black		Spring (self-closing)	*increase 1.53 cN・m (0.16 kgf・cm) by 30˚ of revolution	18 g	40 pcs	640 pcs
170-032-623	HG-VH8-CL-WT		White				18 g	40 pcs	640 pcs
170-032-624	HG-VH8-T15-BL	T1	Black		Torque	15±5 cN・m (1.53 kgf・cm ±0.51)	19 g	60 pcs	240 pcs
170-032-625	HG-VH8-T15-WT		White				19 g	60 pcs	240 pcs
170-032-626	HG-VH8-T35-BL	T3	Black		Torque	35±10 cN・m (3.57 kgf・cm ±1.02)	19 g	60 pcs	240 pcs
170-032-627	HG-VH8-T35-WT		White				19 g	60 pcs	240 pcs

*Spring hinge is adjustable by the screw on the edge.

■Possible Combinations

Type of Hinges	ID Stamp	Normal (N)	Damper (D3)	Spring (self-opening) (OP)	Spring (self-closing) (CL)	Torque (T1)	Torque (T3)
Normal	N	○	○	○	○	○	○
Damper	D3	○	○	○	○	–	–
Spring (self-opening)	OP	○	○	○	–	△	△
Spring (self-closing)	CL	○	○	–	○	△	△
Torque	T1	○	–	△	△	○	○
Torque	T3	○	–	△	△	○	○

△Please carry out thorough tests before using since performance with these combinations might vary depending on door size and weight.

ROTARY DAMPER

Lapcon **URD8-3**

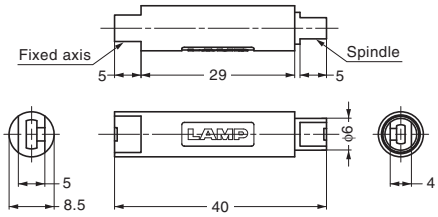


■Features

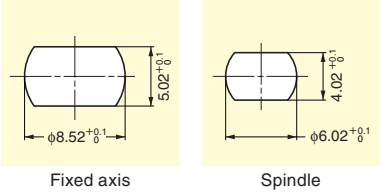
- Small rotary for flaps.
- Damping in opening and closing direction.
- Opening and damping angle: unlimited.

■Remarks

Bracket is required separately.



■Cut Out Dimensions

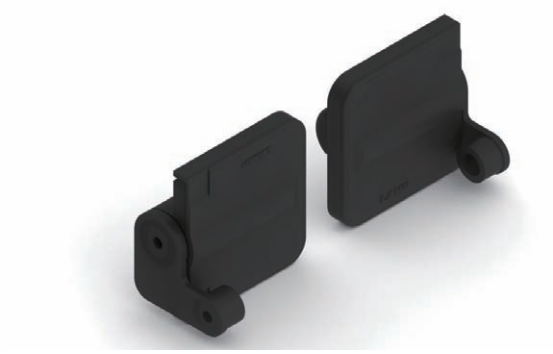


Fixed axis　　Spindle

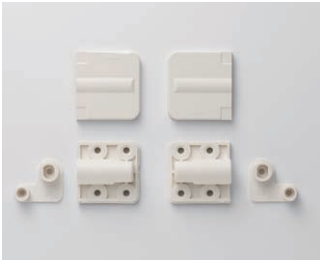
Item Code	Item Name	Material	Colour	Torque Moment		Weight	Box	Carton
170-026-907	URD8-3(URD-85)	Polyacetal (POM)	Natural	2.2～ 3.8 cN・m	0.22～ 0.39 kgf・cm	2.5 g	20 pcs	100 pcs

DAMPER HINGE

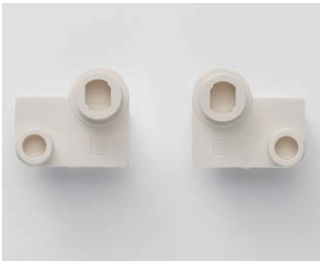
Lapcon **HG-JHM14**











■Features

- Hinge with built-in damper to keep lid from slamming shut.
- Mortise and side mount type.
- Screws are concealed with the cover.
- Bracket for under mount also available (with optional parts).
- Ideal for lid of dressers and office tables.
- With marking colour on the edge to recognize the model.

■Remarks

Sold in pairs.

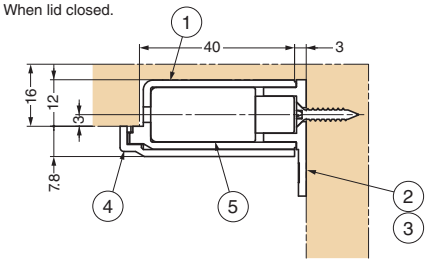
■Criterion of Door Weight

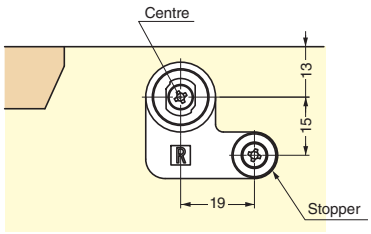
Lid Length D	Lid Weight *m*		
	HG-JHM14-S-8	HG-JHM14-S-15	HG-JHM14-S-20
150	1.04 ～ 1.66 kg	1.66 ～ 3.12 kg	3.12 ～ 4.16 kg
200	0.69 ～ 1.10 kg	1.10 ～ 2.07 kg	2.07 ～ 2.76 kg
250	0.51 ～ 0.82 kg	0.82 ～ 1.54 kg	1.54 ～ 2.06 kg
300	0.41 ～ 0.66 kg	0.66 ～ 1.23 kg	1.23 ～ 1.64 kg
350	0.34 ～ 0.55 kg	0.55 ～ 1.03 kg	1.03 ～ 1.37 kg

No.	Part Name	Material	Colour
①	Body	Polyacetal (POM)	Black / White
②	Bracket for side mount R	PBT	
③	Bracket for side mount L		
④	Cover	ABS	
⑤	Damper	Stainless Steel	—

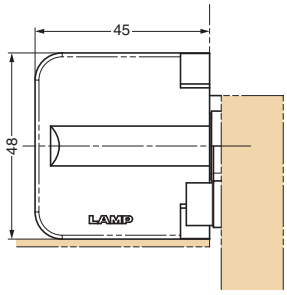
■Side Mount Type

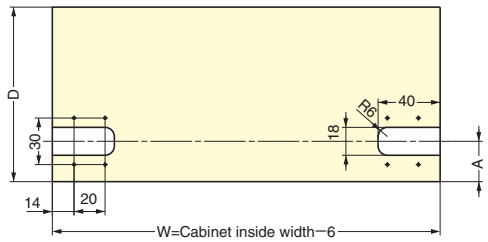
When lid closed.





When lid opened 90 degrees.

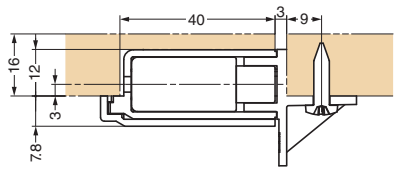


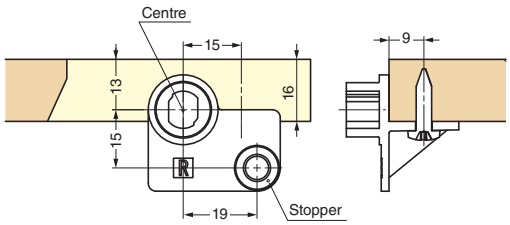


Item Code	Item Name	Colour	Torque Moment (Per pair)		Marking Colour	Weight
170-031-930	HG-JHM14-S-8BL	Black	0.5～0.8 N·m	5.09～ 8.15 kgf·cm	Purple	43 g
170-031-931	HG-JHM14-S-8WT	White				43 g
170-031-932	HG-JHM14-S-15BL	Black	0.8～1.5 N·m	8.15～15.29 kgf·cm	Blue	43 g
170-031-933	HG-JHM14-S-15WT	White				43 g
170-031-934	HG-JHM14-S-20BL	Black	1.5～2.0 N·m	15.29～20.39 kgf·cm	Green	43 g
170-031-935	HG-JHM14-S-20WT	White				43 g

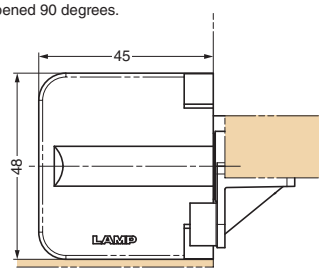
■Under Mount Type (With Optional Parts)

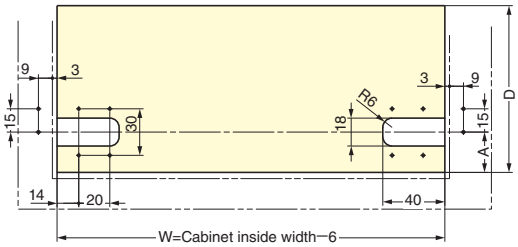
When lid closed.





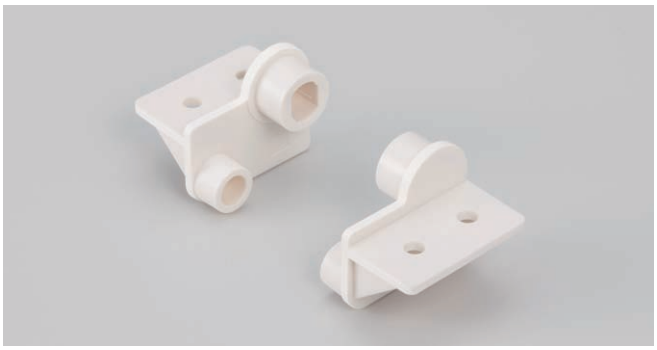
When lid opened 90 degrees.

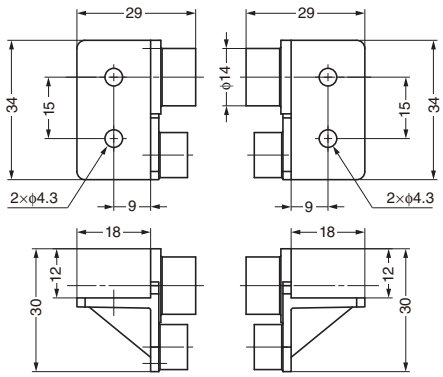




■Bracket for Under Mount (Optional Parts)





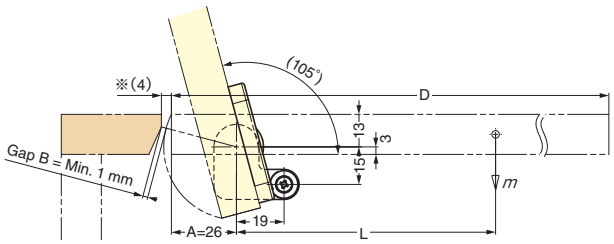


Bracket for under mount L

Bracket for under mount R

Item Code	Item Name	Material	Colour
170-031-936	UKZ14-BL	PBT	Black
170-031-937	UKZ14-WT		White

■Torque Calculation



T = m × 9.8 × L

T : Maximum lid torque (N・m)

m : Lid weight (kg)

L : Distance from rotation centre to lid centre of gravity (m)

L = D/2 − A

D : Lid length (m)

A : Length of lid back from rotation centre (m)

・Make sure that the gap B is Min. 1 mm.

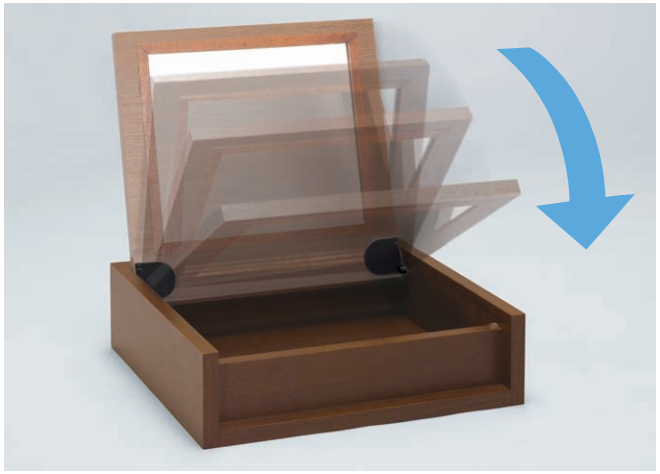
・Provide a stopper to hold the lid at the closed position.

※In case of t = 16 mm, B = 1 mm.

DAMPER HINGE

Lapcon STEEL

HG-JHM16





W/black cover



W/white cover

■Features

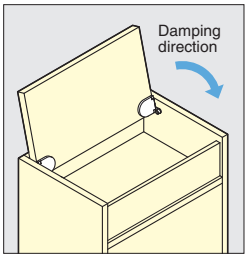
- Hinge with built-in damper to keep lid from slamming shut.
- Mortise mount type.
- With marking colour on the edge to recognize the model.

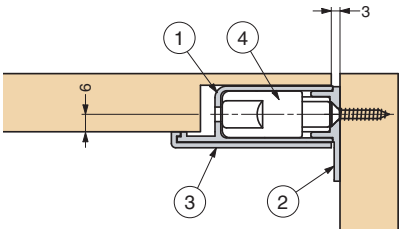
■Remarks

Sold in pairs.

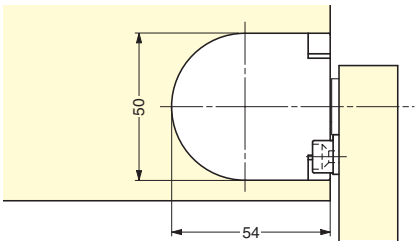
■Parts Included

Countersunk head tapping screw 4×20



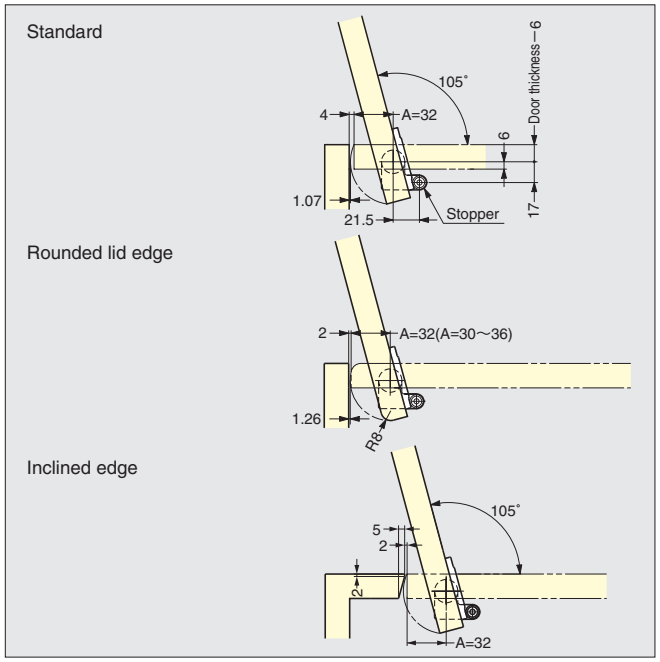


Video Link



No.	Part Name	Material	Finish/Colour
①	Body	Polyacetal (POM)	Black
②	Bracket	Aluminium Alloy	Black
③	Cover	ABS	Black/White
④	Damper	—	—

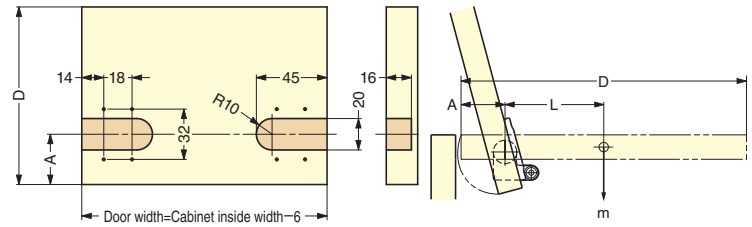
■Installation



■Criterion of Door Weight

Door Height D	Door Weight m	
	HG-JHM16-34	HG-JHM16-50
250	2.19 ～ 3.73 kg	3.73 ～ 5.48 kg
300	1.73 ～ 2.94 kg	2.94 ～ 4.32 kg
350	1.43 ～ 2.42 kg	2.42 ～ 3.57 kg
400	1.21 ～ 2.06 kg	2.06 ～ 3.03 kg
450	1.06 ～ 1.80 kg	1.80 ～ 2.64 kg

■Cut Out Dimensions



■Calculation of Torque Moment

T = m × 9.8 × L

T ：Door torque moment (cN·m)
m ：Door weight (kg)
L ：Length from the centre of an axis to centre of gravity (cm)

$$L = \frac{D}{2} - A$$

D ：Door height (cm)
A ：Length from centre of axis to back edge of the door (cm)

(Example) D=43 cm, A=3.2 cm, m=2.78 kg

$$T = 2.78 \times 9.8 \times \left(\frac{43}{2} - 3.2\right) = 499 \text{ (cN·m)}$$

$$= 5.0 \text{ (N·m)}$$

Item Code	Item Name	Colour	Torque Moment (Per pair)		Marking Colour	Weight
170-092-221	HG-JHM16-34BL	Black	2 ～3.4 N·m	20.4～34.7 kgf·cm	Green	126 g
170-092-222	HG-JHM16-34WT	White	2 ～3.4 N·m	20.4～34.7 kgf·cm	Green	126 g
170-092-223	HG-JHM16-50BL	Black	3.4 ～5 N·m	34.7～51 kgf·cm	Black	126 g
170-092-224	HG-JHM16-50WT	White	3.4 ～5 N·m	34.7～51 kgf·cm	Black	126 g

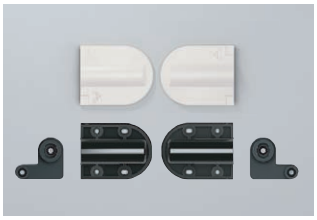
DAMPER HINGE

HG-JHM20





W/black cover



W/white cover

■Features

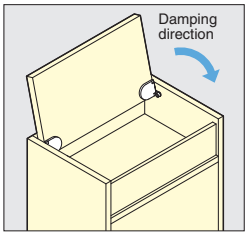
- Hinge with built-in damper to keep lid from slamming shut.
- Mortise mount type.
- With marking colour on the edge to recognize the model.

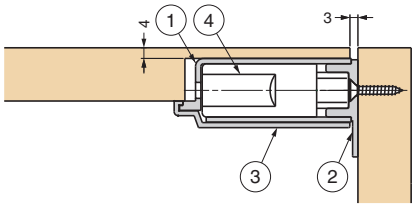
■Remarks

Sold in pairs.

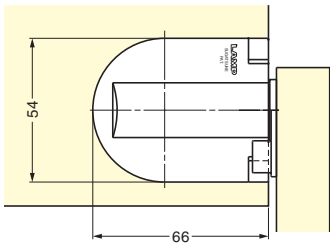
■Parts Included

Countersunk head tapping screw 4×20



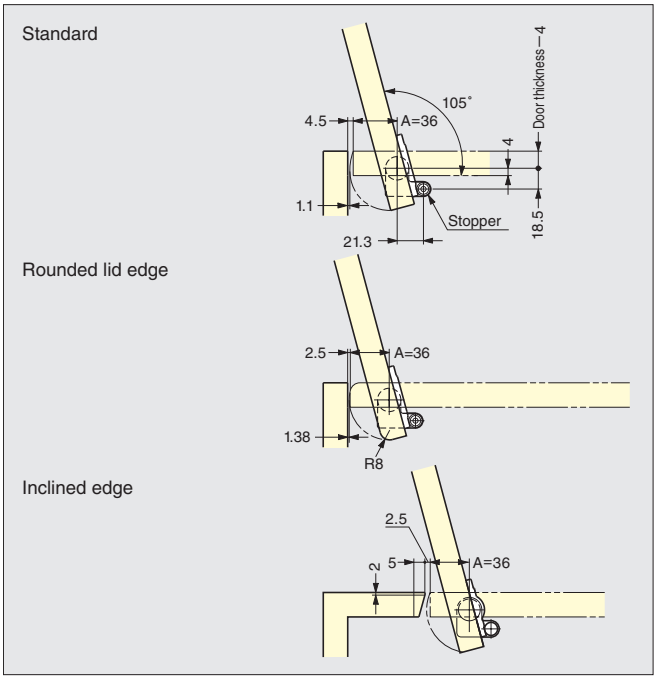


Video Link



No.	Part Name	Material	Finish/Colour
①	Body	Polyacetal (POM)	Black
②	Bracket	Aluminium Alloy	Black
③	Cover	ABS	Black/White
④	Damper	—	—

■Installation



■Criterion of Door Weight

Door Height D	Door Weight m
250	6.58 ～ 8.77 kg
300	5.18 ～ 6.91 kg
350	4.28 ～ 5.70 kg
400	3.64 ～ 4.86 kg
450	3.17 ～ 4.23 kg

■Calculation of Torque Moment

T = m × 9.8 × L

T ：Door torque moment (cN･m)
m ：Door weight (kg)
L ：Length from the centre of an axis to centre of gravity (cm)

$$L = \frac{D}{2} - A$$

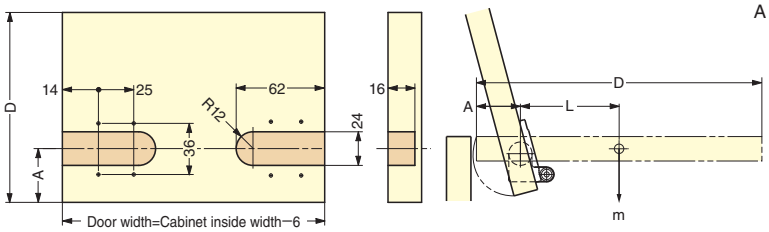
D ：Door Height (cm)
A ：Length from centre of axis to back edge of the door (cm)

(Example) D=45 cm、A=3.6 cm、m=4.32 kg

$$T = 4.32 \times 9.8 \times \left(\frac{45}{2} - 3.6\right) = 801 \text{ (cN･m)}$$

=8.0 (N･m)

■Cut Out Dimensions



Item Code	Item Name	Colour	Torque Moment (Per pair)		Marking Colour	Weight
170-012-854	HG-JHM20-80BL	Black	6 ～ 8 N・m	61.2 ～ 81.6 kgf・cm	Yellow	206 g
170-012-855	HG-JHM20-80WT	White	6 ～ 8 N・m	61.2 ～ 81.6 kgf・cm	Yellow	206 g

STAINLESS STEEL DAMPER HINGE

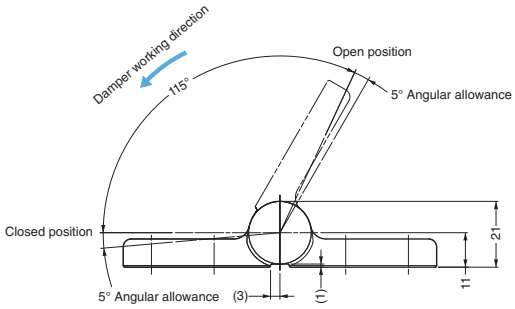
Lapcon STAINLESS 304 STEEL

HG-JH14-50



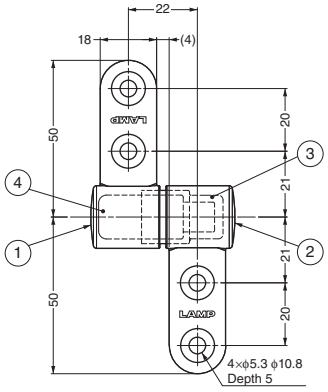
■Features

- Surface mount type.
- Light and smooth opening and soft closing.
- Torque moment 1.6～ 3.0 N・m type can also be produced.
- Sold in pairs.

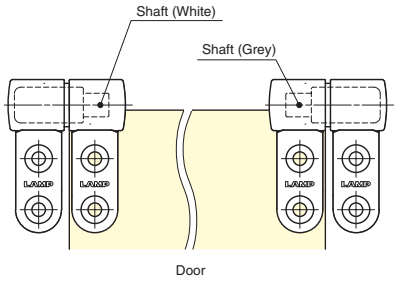


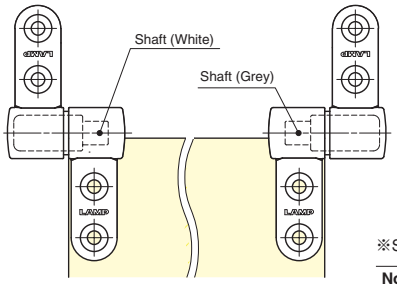
■Remarks

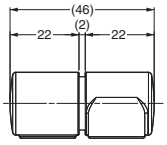
Door stopper is necessary for soft-close damping angle (0～ 115 degree or less).



■Installation







Left-hand damper shown.

※SCS13 is equivalent of SUS304.

No.	Part Name	Material	Finish/Colour
①	Bracket (L)	Stainless Steel (SCS13)	Mirror
②	Bracket (R)	Stainless Steel (SCS13)	Mirror
③	Bush	Polyacetal (POM)	White
④	Damper	Stainless Steel/PBT Resin	—

Item Code	Item Name	Torque Moment (Per pair)		Weight	Box	Carton
170-021-173	HG-JH14-50	3～ 5 N・m	30.6～ 51 kgf・cm	275 g/set	1 set	48 sets

DAMPER HINGE

Lapcon L=R

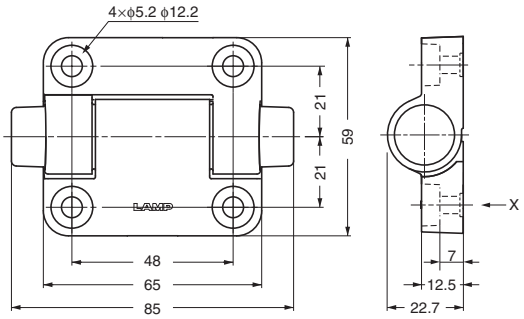
HG-JHW16S

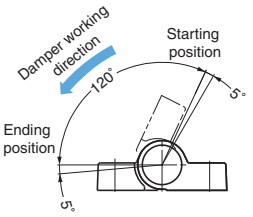


■Features

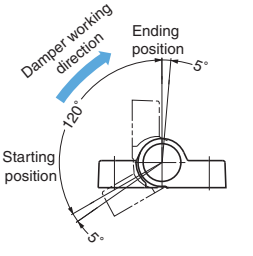
- Available with 3 different damping torques.
- Damping in opening or closing direction.
- Opening and damping angle: 0˚- 170˚.
- Successfully passed for the 70,000 open/close private cycle test.

Video Link





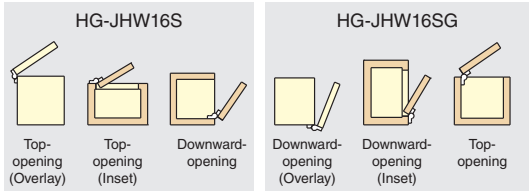
HG-JHW16S



HG-JHW16SG

■Recommended Screws

M5 screw



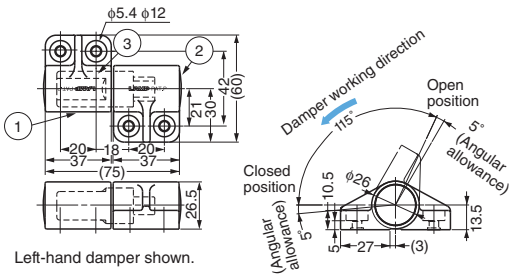
Item Code	Item Name	Damper Working Direction (When Surface Mount)	Torque Moment (Per piece)		Weight	Box
170-027-420	HG-JHW16S-34	For Closing	2.0～3.4 N・m	20.4～34.7 kgf・cm	83 g	30 pcs
170-027-421	HG-JHW16S-50	For Closing	3.4～5.0 N・m	34.7～51.0 kgf・cm	83 g	30 pcs
170-027-422	HG-JHW16S-34G	For Opening	2.0～3.4 N・m	20.4～34.7 kgf・cm	83 g	30 pcs
170-027-423	HG-JHW16S-50G	For Opening	3.4～5.0 N・m	34.7～51.0 kgf・cm	83 g	30 pcs
170-027-419	HG-JHW16S-00	Without Damper	—	—	52 g	30 pcs

Material	Finish/Colour
PBT	Dark Grey

DAMPER HINGE

Lapcon **HG-JH**





Left-hand damper shown.

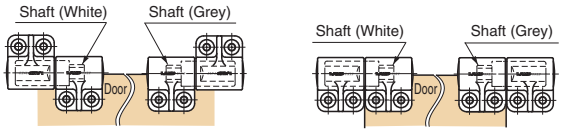
■**Features**

- Soft-close damper keeps lid from slamming shut.
- Surface mount type.
- Caps can be removable, so it can be used for right side or left side.
- With marking colour on the edge to recognize the model.

■**Remarks**

- Sold in pairs.
- Please install door stopper for soft-close damping angle (0～ 115 degree or less).

■**Installation**



No.	Part Name	Material	Finish/Colour
①	Bracket	PBT Resin/Zinc Alloy (ZDC)	Dark Grey
②	Cover	Polypropylene (PP)	Dark Grey
③	Damper	Stainless Steel	—

Item Code	Item Name	Torque Moment (Per pair)		Marking Colour	Weight	Box	Carton
170-092-209	HG-JH25	3～5 N·m	30.6～51 kgf·cm	Blue	200 g	4 sets	64 sets
170-092-210	HG-JH35	5～7 N·m	51 ～71.4 kgf·cm	Red	200 g	4 sets	64 sets

DAMPER HINGE

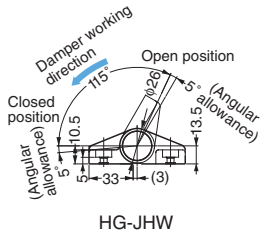
Lapcon **HG-JHW, HG-JHWG**



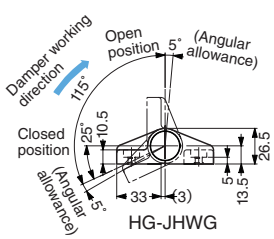
HG-JHW



HG-JHWG

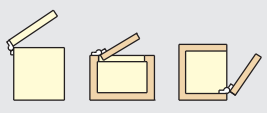


HG-JHW



HG-JHWG

HG-JHW



HG-JHWG

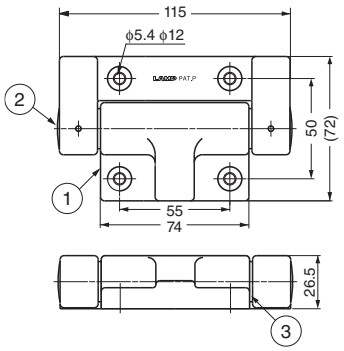


■**Features**

- Soft-close damper keeps lid from slamming shut.
- Surface mount type.
- With marking colour on the edge to recognize the model.

■**Remarks**

Install door stopper for soft-close damping angle (0～ 115 degree or less).



No.	Part Name	Material	Finish/Colour
①	Bracket	PBT Resin/Zinc Alloy (ZDC)	Dark Grey
②	Cover	Polypropylene (PP)	Dark Grey
③	Damper	Stainless Steel	—

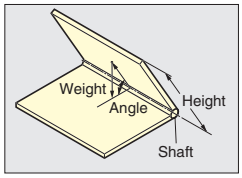
Item Code	Item Name	Damper Working Direction When External Installation	Torque Moment (Per pair)		Marking Colour	Weight	Box	Carton
170-092-212	HG-JHW50	For Closing	6～10 N·m	61.2～102 kgf·cm	White	184 g	4 pcs	64 pcs
170-092-211	HG-JHW70	For Closing	10～14 N·m	102 ～142.8 kgf·cm	Without	184 g	4 pcs	64 pcs
170-092-215	HG-JHW50G	For Opening	6～10 N·m	61.2～102 kgf·cm	White・Red	184 g	4 pcs	64 pcs
170-092-216	HG-JHW70G	For Opening	10～14 N·m	102 ～142.8 kgf·cm	Red	184 g	4 pcs	64 pcs

TORQUE HINGE DIGEST

■Features

- Can be hold lids in any desired position.
- You can choose suitable one from our wide range of torque hinges.

■Torque Calculation

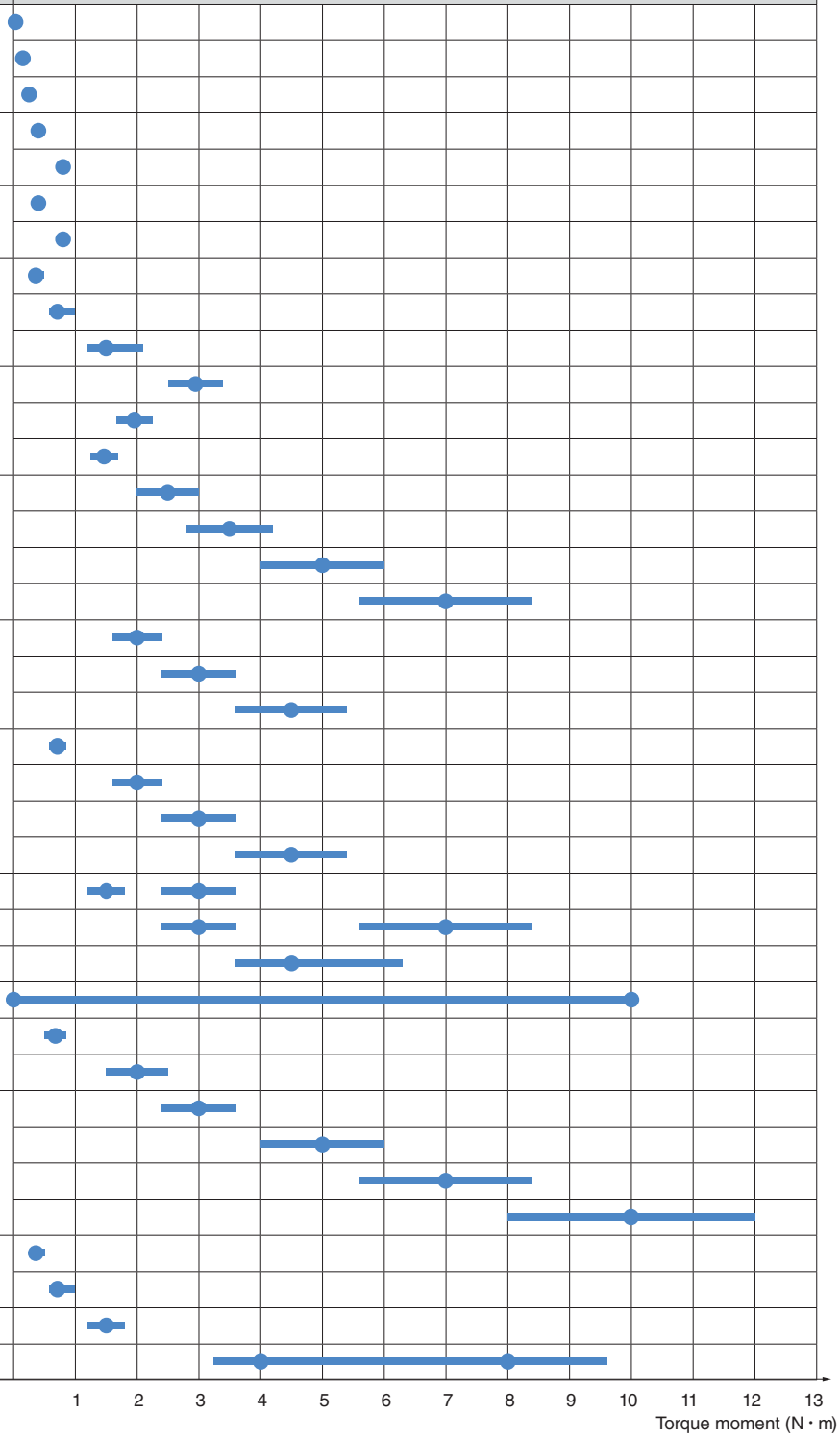


Torque moment T (N・m) = Door weight (kg)×9.8×Length from pivot point to the centre of gravity. (m)

- In case the door has its centre of gravity positioned the centre of door.

$$T\ (N \cdot m) = \text{Door weight (kg)} \times 9.8 \times \frac{\text{Door Height (m)}}{2}$$

Item Name	Torque Moment (Per piece)		Page	Torque Range
	N・m	kgf・cm		
HG-MF08-BL (WT)	0.0784±25%	0.8±25%	P.431	
HG-MF15-BL (WT)	0.147±33%	1.5±33%		
HG-MF25-BL (WT)	0.245±33%	2.5±33%		
HG-DTA4-R (L)	0.4±20%	4.08±20%	P.435	
HG-DTA8-R (L)	0.8±20%	8.16±20%		
HG-DTB4-R (L)	0.4±20%	4.08±20%	P.435	
HG-DTB8-R (L)	0.8±20%	8.16±20%		
HG-TS03	0.35−20%～+40%	3.6−20%～+40%	P.432	
HG-TS07	0.7−20%～+40%	7.1−20%～+40%		
HG-TS15	1.5−20%～+40%	15.3−20%～+40%		
SK-T-ZA-1SCR (CR)	2.94±15%	30±15%	P.431	
SK-T-ZA-2SCR (CR)	1.96±15%	20±15%		
SK-T-ZA-3SCR (CR)	1.47±15%	15±15%		
HG-ITS25	2.5±20%	25.49±20%	P.433	
HG-ITS35	3.5±20%	35.69±20%		
HG-ITM50	5.0±20%	50.98±20%		
HG-ITM70	7.0±20%	71.38±20%		
HG-TA20R (L)	2.0±20%	20.4±20%	P.434	
HG-TA30R (L)	3.0±20%	30.6±20%		
HG-TA45R (L)	4.5±20%	45.9±20%		
HG-TB7R (L)	0.7±20%	7.1±20%	P.434	
HG-TB20R (L)	2.0±20%	20.4±20%		
HG-TB30R (L)	3.0±20%	30.6±20%		
HG-TB45R (L)	4.5±20%	45.9±20%		
HG-T30S15	Tilt：3.0±20% Swivel：1.5±20%	Tilt：30.6±20% Swivel：15.3±20%	P.438	
HG-T70S30	Tilt：7.0±20% Swivel：3.0±20%	Tilt：71.4±20% Swivel：30.6±20%	P.438	
HG-TQA90-A (B)	4.5−20%～+40%	45.9−20%～+40%	P.445	
HG-TQJ100-A (B)	0～10	0～102	P.444	
HG-S7	0.7±20%	7.1±20%	P.439	
HG-S20	2.0±20%	20.4±20%		
HG-S30	3.0±20%	30.6±20%	P.439, P.441	
HG-S50	5.0±20%	51.0±20%		
HG-S70	7.0±20%	71.4±20%		
HG-S100	10.0±20%	102.0±20%		
HG-TU03	0.35−20%～+40%	3.6−20%～+40%	P.432	
HG-TU07	0.7−20%～+40%	7.1−20%～+40%		
HG-RNM30	1.5±20%	15.3±20%	P.442	
HG-ITJ4080	4～8±20%	41～82±20%	P.443	



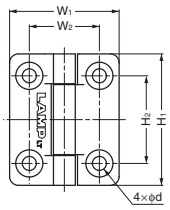
MINI TORQUE HINGE

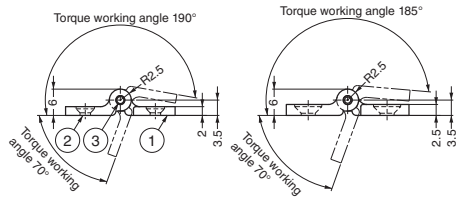
L=R HG-MF



■Features

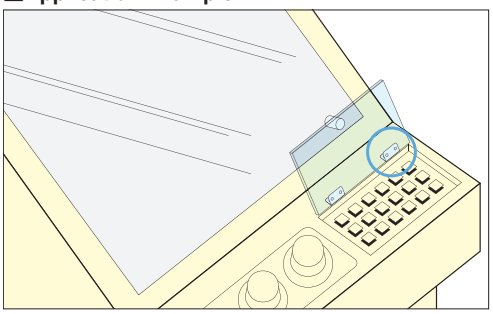
- Hinge with friction torque holds lid/door in desired position.
- Successfully passed for the 20,000 open/close cycle test.





HG-MF08, HG-MF15 HG-MF25

■Application Example

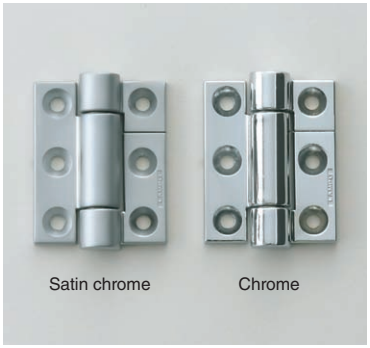


No.	Part Name	Material	Colour
①	Body A	Polyacetal (POM)	Black, White
②	Body B	Polyacetal (POM)	Black, White
③	Shaft	Stainless Steel (SUS304)	—

Item Code	Item Name	Colour	W1	W2	H1	H2	t	d	Torque Moment (Per piece)		Weight	Box
170-023-854	HG-MF08-BL	Black	25	16	20	10	2	ϕ2.4, ϕ4.2	7.84±25% cN・m	0.8±25% kgf・cm	2 g	100 pcs
170-023-855	HG-MF08-WT	White	25	16	20	10	2	ϕ2.4, ϕ4.2	7.84±25% cN・m	0.8±25% kgf・cm	2 g	100 pcs
170-023-856	HG-MF15-BL	Black	25	16	30	20	2	ϕ3.2, ϕ6.2	14.7 ±33% cN・m	1.5±33% kgf・cm	3 g	100 pcs
170-023-857	HG-MF15-WT	White	25	16	30	20	2	ϕ3.2, ϕ6.2	14.7 ±33% cN・m	1.5±33% kgf・cm	3 g	100 pcs
170-023-858	HG-MF25-BL	Black	28	18	40	25	2.5	ϕ3.2, ϕ6.2	24.5 ±33% cN・m	2.5±33% kgf・cm	5 g	100 pcs
170-023-859	HG-MF25-WT	White	28	18	40	25	2.5	ϕ3.2, ϕ6.2	24.5 ±33% cN・m	2.5±33% kgf・cm	5 g	100 pcs

TORQUE HINGE

L=R SK-T-ZA



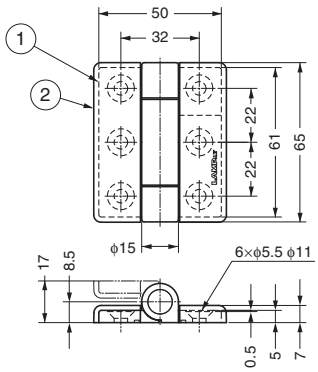


■Features

- Can be used horizontal applications.
- Plastic cover provided for clean appearance.

■Remarks

Recommended for use in pairs.



No.	Part Name	Material	Finish
①	Body	Zinc Alloy (ZDC)	Satin Chrome, Chrome
②	Cover	ABS	Satin Chrome, Chrome

Item Code	Item Name	Finish	Torque Moment (Per piece)		Weight	Box	Carton
170-090-797	SK-T-ZA-1SCR	Satin Chrome	2.94±15% N・m	30±15% kgf・cm	134 g	20 pcs	120 pcs
170-090-799	SK-T-ZA-2SCR	Satin Chrome	1.96±15% N・m	20±15% kgf・cm	134 g	20 pcs	120 pcs
170-090-801	SK-T-ZA-3SCR	Satin Chrome	1.47±15% N・m	15±15% kgf・cm	134 g	20 pcs	120 pcs
170-090-796	SK-T-ZA-1CR	Chrome	2.94±15% N・m	30±15% kgf・cm	134 g	20 pcs	120 pcs
170-090-798	SK-T-ZA-2CR	Chrome	1.96±15% N・m	20±15% kgf・cm	134 g	20 pcs	120 pcs
170-090-800	SK-T-ZA-3CR	Chrome	1.47±15% N・m	15±15% kgf・cm	134 g	20 pcs	120 pcs

TORQUE HINGE

STAINLESS 304 STEEL

HG-TS



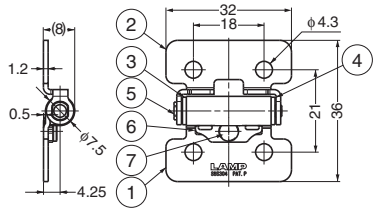
■Features

- Hinge with friction torque holds lid/door in desired position.
- Stainless steel material ideal for harsh environments.
- Cycle tested at 20,000 open/close cycle.
- Free stop between 0 - 180˚ .
- Initial torque may vary -20 % ～ +40 %.

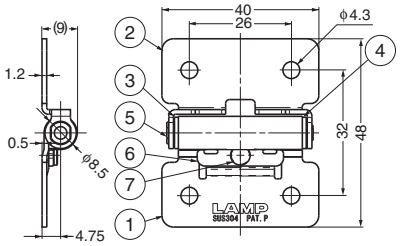
■Remarks

- Operating temperature : -10 ℃～ 50 ℃
- Operating humidity : 90 % RH or less
- Recommended for use in pairs.

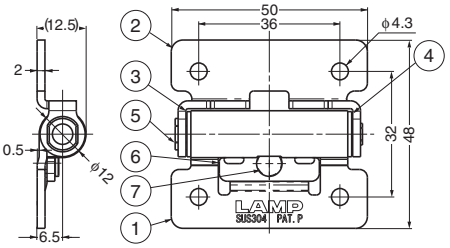
HG-TS03



HG-TS07



HG-TS15



Item Code	Item Name	Torque Moment (Per pair)		Weight	Box	Carton
170-018-501	HG-TS03	0.35 $^{+40\%}_{-20\%}$ N・m	3.6 $^{+40\%}_{-20\%}$ kgf・cm	15.0 g	50 pcs	500 pcs
170-018-502	HG-TS07	0.7 $^{+40\%}_{-20\%}$ N・m	7.1 $^{+40\%}_{-20\%}$ kgf・cm	27.5 g	50 pcs	500 pcs
170-018-503	HG-TS15	1.5 $^{+40\%}_{-20\%}$ N・m	15.3 $^{+40\%}_{-20\%}$ kgf・cm	64.1 g	20 pcs	200 pcs

No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Mirror
②	Base	Stainless Steel (SUS304)	Mirror
③	Fixing Tube L	Polyacetal (POM)	Black
④	Fixing Tube R	Polyacetal (POM)	Black
⑤	Shaft	Stainless Steel (SUS303)	—
⑥	Press Washer	Stainless Steel (SUS304)	Mirror
⑦	Pin	Stainless Steel	—

TORQUE HINGE (CONCEALED)

L=R STAINLESS 304 STEEL

HG-TU

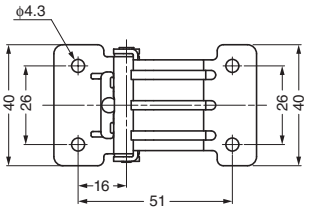


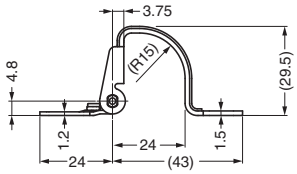
■Features

- Install on the back side of the door for clean appearance.
- Can be used both for horizontal and vertical applications.

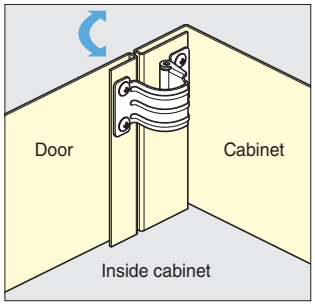
■Remarks

Recommended for use in pairs.

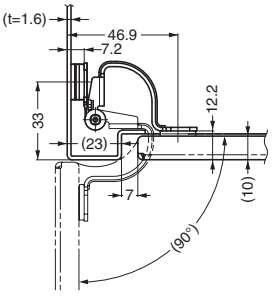




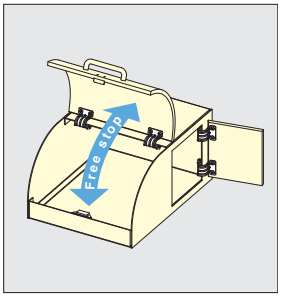
■Installation



■Dimension



■Application Example

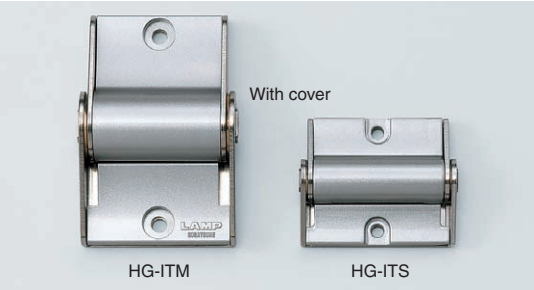


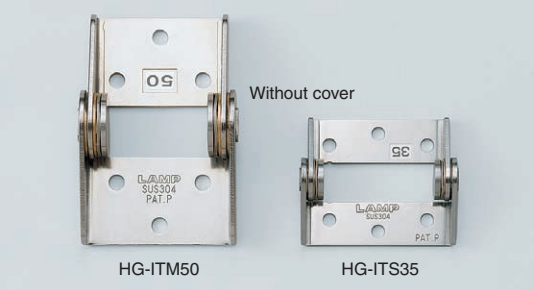
Item Code	Item Name	Material	Finish	Torque Moment (Per piece)		Weight	Box	Carton
170-022-304	HG-TU03	Stainless Steel (SUS304)	Mirror	0.35 $^{+40\%}_{-20\%}$ N・m	3.6 $^{+40\%}_{-20\%}$ kgf・cm	50 g	20 pcs	200 pcs
170-022-305	HG-TU07	Stainless Steel (SUS304)	Mirror	0.7 $^{+40\%}_{-20\%}$ N・m	7.1 $^{+40\%}_{-20\%}$ kgf・cm	50 g	20 pcs	200 pcs

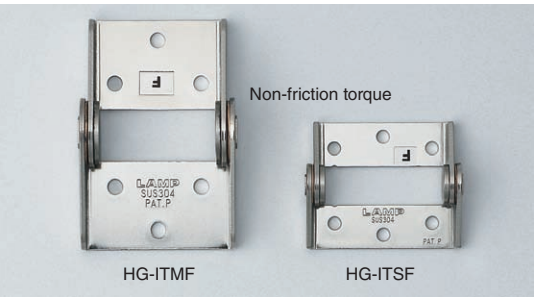
TORQUE HINGE

STAINLESS 304 STEEL

HG-IT







■Features

- Hinge with friction torque for holding monitors, displays etc. in desired position.
- Non-friction torque type available. (HG-ITSF, HG-ITMF)
- Optional cover available for clean appearance.

■Remarks

- Operating angle: HG-ITM…193˚/HG-ITS…190˚
- Operating temperature : -10 ℃～ 50 ℃

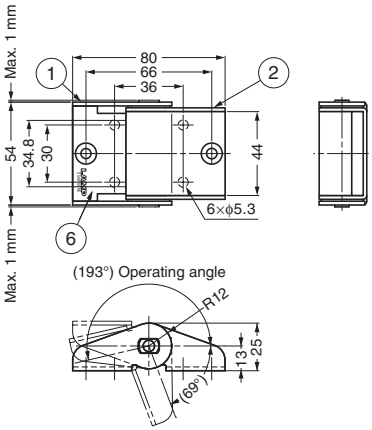
■Caution

Recommended for use in pairs.

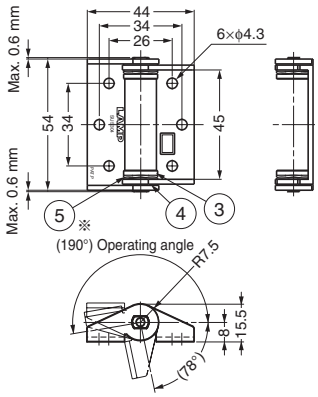
■Sold Separately

Cover (Below)

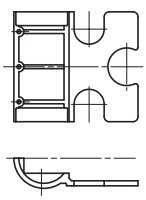
Video Link



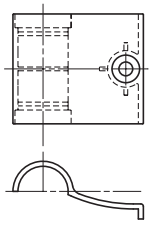
HG-ITM
(With cover)



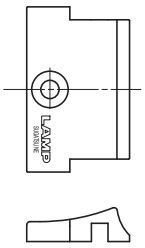
HG-ITS
(Without cover)



Cover A

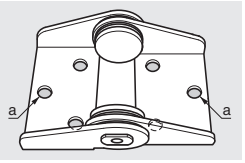


Cover B

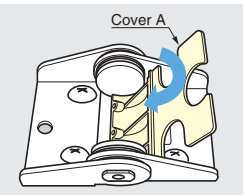


Cover C

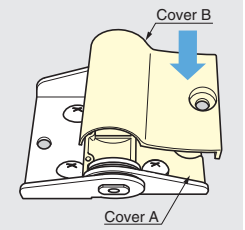
■Installation



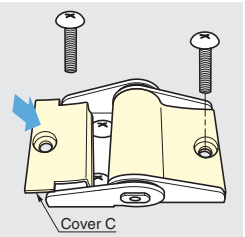
1. Install hinge body to the cabinet. (screw hole "a" is for cover)



2. Insert the cover A under the hinge axis.



3. Put cover B on the cover A.



4. Put cover C as the left figure and fix with screw.

No.	Part Name	Material	Finish/Colour
①	Base	Stainless Steel (SUS304)	Mirror
②	Bracket	Stainless Steel (SUS304)	Mirror
③	Shaft	Stainless Steel (SUS303)	Plain
④	Washer	Bronze	Mirror
⑤	Spring Washer	Steel	Nickel
⑥	Cover	ABS	Matte Silver/Clear

※⑤: Only for HG-ITS and HG-ITM.

■Hinge

Item Code	Item Name	Torque Moment (Per piece)		Weight	Box	Carton
170-090-106	HG-ITS25	$2.5^{\pm 20\%}$ N・m	$25.49^{\pm 20\%}$ kgf・cm	50 g	20 pcs	160 pcs
170-090-115	HG-ITS35	$3.5^{\pm 20\%}$ N・m	$35.69^{\pm 20\%}$ kgf・cm	50 g	20 pcs	160 pcs
170-090-114	HG-ITM50	$5.0^{\pm 20\%}$ N・m	$50.98^{\pm 20\%}$ kgf・cm	130 g	10 pcs	80 pcs
170-090-113	HG-ITM70	$7.0^{\pm 20\%}$ N・m	$71.38^{\pm 20\%}$ kgf・cm	130 g	10 pcs	80 pcs
170-090-999	HG-ITSF	–	–	50 g	20 pcs	160 pcs
170-090-998	HG-ITMF	–	–	130 g	10 pcs	80 pcs

■Cover (Sold Separately)

Item Code	Item Name	Cover for	Weight	Box	Carton
170-091-002	HG-ITSC	HG-ITS Type	10 g	40 pcs	960 pcs
170-091-001	HG-ITMC	HG-ITM Type	18 g	20 pcs	480 pcs

TORQUE HINGE

STAINLESS 430 STEEL

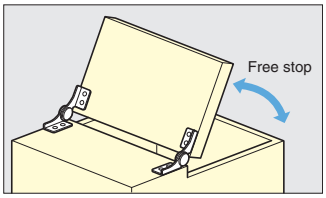
HG-TA

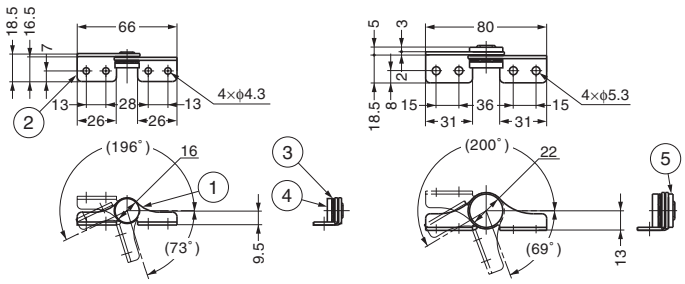


■Remarks
- Operating temperature : 0 ℃～ 40 ℃
- For pair using: Please use the same torque moment in both hinges.

Video Link

■Application Example





HG-TA20L, HG-TA30L　　HG-TA45L

Left-handed type shown.

No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS430)	Mirror
②	Base	Stainless Steel (SUS430)	Mirror
③	Plate	Steel	–
④	Shaft	Stainless Steel (SUS303)	–
⑤	Washer	Stainless Steel (SUS303)	Mirror

Item Code	Item Name	Type	Torque Moment		Weight	Box	Carton
170-012-403	HG-TA20R	Right	2.0$^{\pm 20\%}$ N・m	20.4$^{\pm 20\%}$ kgf・cm	33 g	40 pcs	320 pcs
170-012-404	HG-TA20L	Left	2.0$^{\pm 20\%}$ N・m	20.4$^{\pm 20\%}$ kgf・cm	33 g	40 pcs	320 pcs
170-012-405	HG-TA30R	Right	3.0$^{\pm 20\%}$ N・m	30.6$^{\pm 20\%}$ kgf・cm	33 g	40 pcs	320 pcs
170-012-406	HG-TA30L	Left	3.0$^{\pm 20\%}$ N・m	30.6$^{\pm 20\%}$ kgf・cm	33 g	40 pcs	320 pcs
170-012-407	HG-TA45R	Right	4.5$^{\pm 20\%}$ N・m	45.9$^{\pm 20\%}$ kgf・cm	65 g	20 pcs	160 pcs
170-012-408	HG-TA45L	Left	4.5$^{\pm 20\%}$ N・m	45.9$^{\pm 20\%}$ kgf・cm	65 g	20 pcs	160 pcs

TORQUE HINGE

STAINLESS 430 STEEL

HG-TB

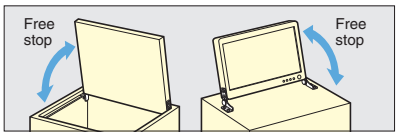


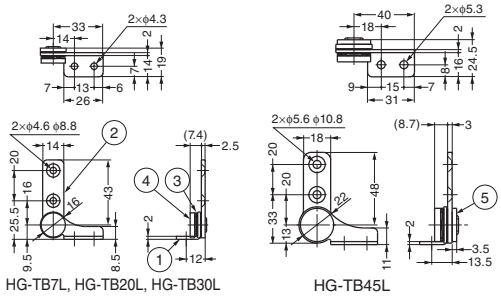
HG-TB7L, HG-TB20L, HG-TB30L　　HG-TB45L

■Remarks
- Operating temperature : 0 ℃～ 40 ℃
- Operating angle : 360°
- For pair using: Please use the same torque moment in both hinges.

Video Link

■Application Example





HG-TB7L, HG-TB20L, HG-TB30L　　HG-TB45L

Left-handed type shown.

No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS430)	Mirror
②	Base	Stainless Steel (SUS430)	Mirror
③	Plate	Steel	–
④	Shaft	Stainless Steel (SUS303)	–
⑤	Washer	Stainless Steel (SUS430)	Mirror

Item Code	Item Name	Type	Torque Moment		Weight	Box	Carton
170-022-142	HG-TB7R	Right	0.7$^{\pm 20\%}$ N・m	7.1$^{\pm 20\%}$ kgf・cm	31 g	40 pcs	320 pcs
170-022-143	HG-TB7L	Left	0.7$^{\pm 20\%}$ N・m	7.1$^{\pm 20\%}$ kgf・cm	31 g	40 pcs	320 pcs
170-012-413	HG-TB20R	Right	2.0$^{\pm 20\%}$ N・m	20.4$^{\pm 20\%}$ kgf・cm	32 g	40 pcs	320 pcs
170-012-414	HG-TB20L	Left	2.0$^{\pm 20\%}$ N・m	20.4$^{\pm 20\%}$ kgf・cm	32 g	40 pcs	320 pcs
170-012-415	HG-TB30R	Right	3.0$^{\pm 20\%}$ N・m	30.6$^{\pm 20\%}$ kgf・cm	32 g	40 pcs	320 pcs
170-012-416	HG-TB30L	Left	3.0$^{\pm 20\%}$ N・m	30.6$^{\pm 20\%}$ kgf・cm	32 g	40 pcs	320 pcs
170-012-417	HG-TB45R	Right	4.5$^{\pm 20\%}$ N・m	45.9$^{\pm 20\%}$ kgf・cm	67 g	20 pcs	160 pcs
170-012-418	HG-TB45L	Left	4.5$^{\pm 20\%}$ N・m	45.9$^{\pm 20\%}$ kgf・cm	67 g	20 pcs	160 pcs

DETENT TORQUE HINGE

STAINLESS 304 STEEL

HG-DTA



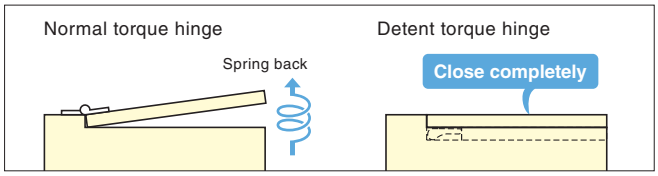
■Features

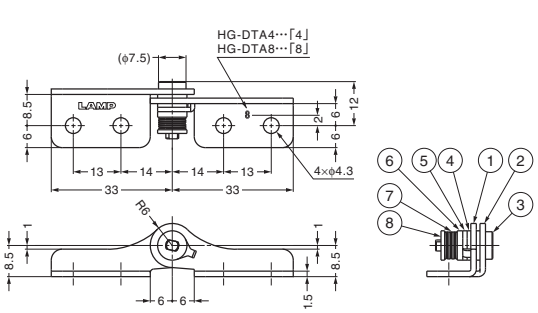
- Detent function prevents spring-back in closed position.
- No additional catch needed.
- Stainless steel for corrosion resistance.

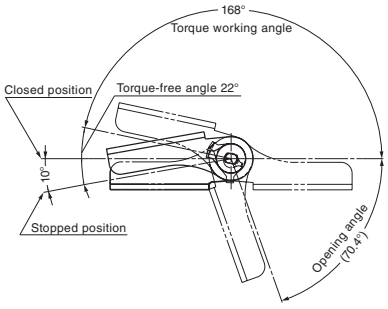
Video Link

■Remarks

- For pair using: Please use the same torque moment in both hinges.
- Becomes torque-free right before closing to prevent spring-back.







HG-DTA4/8-L

No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Mirror
②	Bracket	Stainless Steel (SUS304)	Mirror
③	Shaft	Stainless Steel (SUS303)	–
④	Washer	Stainless Steel	–
⑤	Cam A	Stainless Steel	–
⑥	Cam B	Stainless Steel	–
⑦	Spring Washer	Stainless Steel	–
⑧	Plate	Stainless Steel (SUS304)	–

Item Code	Item Name	Type	Torque Moment (Per piece)		Release Torque ※		Weight	Box	Carton
170-026-457	HG-DTA4-R	Right	0.4±20% N・m	4.08±20% kgf・cm	0.7±20% N・m	7.14±20% kgf・cm	19 g	50 pcs	400 pcs
170-026-458	HG-DTA4-L	Left	0.4±20% N・m	4.08±20% kgf・cm	0.7±20% N・m	7.14±20% kgf・cm	19 g	50 pcs	400 pcs
170-026-459	HG-DTA8-R	Right	0.8±20% N・m	8.16±20% kgf・cm	1.5±20% N・m	15.31±20% kgf・cm	19 g	50 pcs	500 pcs
170-026-460	HG-DTA8-L	Left	0.8±20% N・m	8.16±20% kgf・cm	1.5±20% N・m	15.31±20% kgf・cm	19 g	50 pcs	500 pcs

※Torque required to release detent.

DETENT TORQUE HINGE

STAINLESS 304 STEEL

HG-DTB



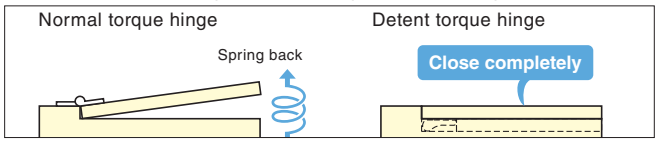
■Features

- Detent function prevents spring-back in closed position.
- No additional catch needed.
- Stainless steel for corrosion resistance.

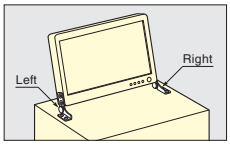
Video Link

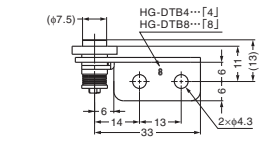
■Remarks

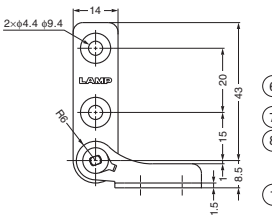
- For pair using: Please use the same torque moment in both hinges.
- Becomes torque-free right before closing to prevent spring-back.

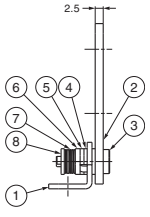


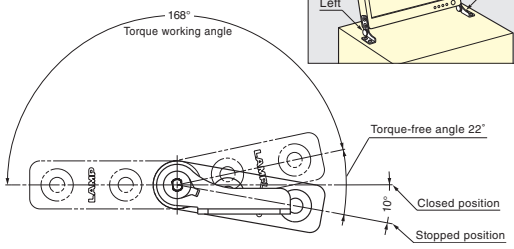
■Application Example











HG-DTB4/8-L

No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Mirror
②	Bracket	Stainless Steel (SUS304)	Mirror
③	Shaft	Stainless Steel (SUS303)	–
④	Washer	Stainless Steel	–
⑤	Cam A	Stainless Steel	–
⑥	Cam B	Stainless Steel	–
⑦	Spring Washer	Stainless Steel	–
⑧	Plate	Stainless Steel (SUS304)	–

Item Code	Item Name	Type	Torque Moment (Per piece)		Release Torque ※		Weight	Box	Carton
170-026-461	HG-DTB4-R	Right	0.4±20% N・m	4.08±20% kgf・cm	0.7±20% N・m	7.14±20% kgf・cm	23 g	50 pcs	400 pcs
170-026-462	HG-DTB4-L	Left	0.4±20% N・m	4.08±20% kgf・cm	0.7±20% N・m	7.14±20% kgf・cm	23 g	50 pcs	400 pcs
170-026-463	HG-DTB8-R	Right	0.8±20% N・m	8.16±20% kgf・cm	1.5±20% N・m	15.31±20% kgf・cm	23 g	50 pcs	500 pcs
170-026-464	HG-DTB8-L	Left	0.8±20% N・m	8.16±20% kgf・cm	1.5±20% N・m	15.31±20% kgf・cm	23 g	50 pcs	500 pcs

※Torque required to release detent.

TORQUE HINGE

STAINLESS 430 STEEL

HG-TA45H



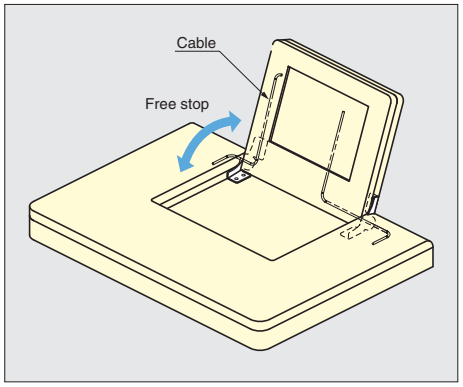
■Features

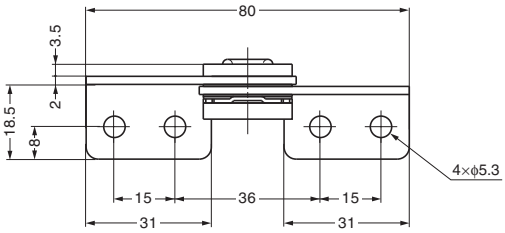
- Hole in the shaft allows easy cable management.
- Ideal for the holder of LCD and monitoring camera.
- Successfully passed for the 50,000 open/close private cycle test.

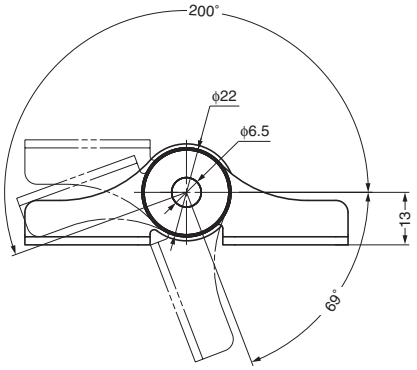
■Remarks

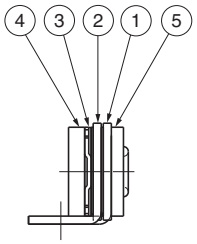
- Operating temperature: 0℃～40℃
- For pair using: Please use the same torque moment in both hinges.

■Application Example









HG-TA45HL

No.	Part Name	Material	Finish
①	Bracket	Stainless Steel (SUS430)	Mirror
②	Base		
③	Plate	Steel	—
④	Shaft	Stainless Steel (SUS303)	
⑤	Washer	Stainless Steel (SUS430)	Mirror

Item Code	Item Name	Type	Torque Moment (Per piece)	Weight	Box	Carton
170-034-215	HG-TA45HR	Right/Wiring Hole	$4.5^{\pm 20\%}$ N・m ($45.9^{\pm 20\%}$ kgf・cm)	60 g	20 pcs	160 pcs
170-034-216	HG-TA45HL	Left/Wiring Hole				

TORQUE HINGE

STAINLESS 430 STEEL

HG-TC45H



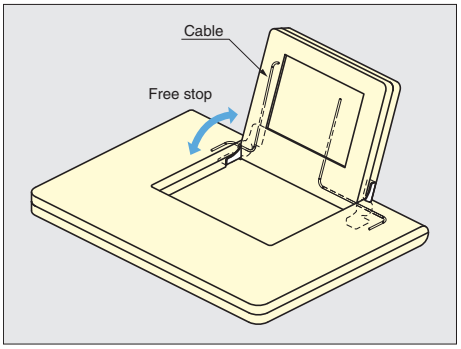
■Features

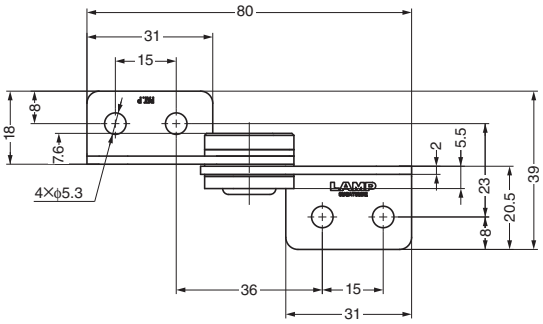
- Hole in the shaft allows easy cable management.
- Ideal for the holder of LCD and monitoring camera.
- Successfully passed for the 50,000 open/close private cycle test.

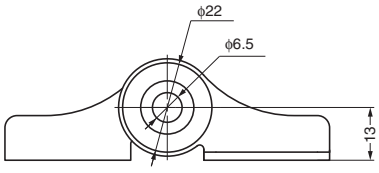
■Remarks

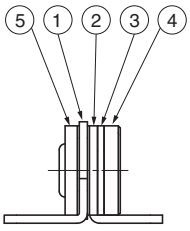
- Operating temperature: 0℃～ 40℃
- For pair using: Please use the same torque moment in both hinges.

■Application Example









HG-TC45HL

No.	Part Name	Material	Finish
①	Bracket	Stainless Steel (SUS430)	Mirror
②	Base		
③	Plate	Steel	—
④	Shaft	Stainless Steel (SUS303)	
⑤	Washer	Stainless Steel (SUS430)	Mirror

Item Code	Item Name	Type	Torque Moment (Per piece)	Weight	Box	Carton
170-034-217	HG-TC45HR	Right/Wiring Hole	$4.5^{\pm 20\%}$ N・m ($45.9^{\pm 20\%}$ kgf・cm)	60 g	20 pcs	160 pcs
170-034-218	HG-TC45HL	Left/Wiring Hole				

TORQUE HINGE (DUAL AXIS)

STAINLESS 430 STEEL

HG-T30S15



■Features

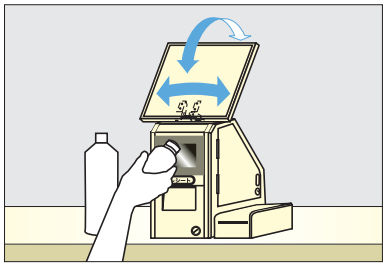
- Dual Axis: Can hold at any angle in tilt & swivel.
- Provides torque stability in both directions.

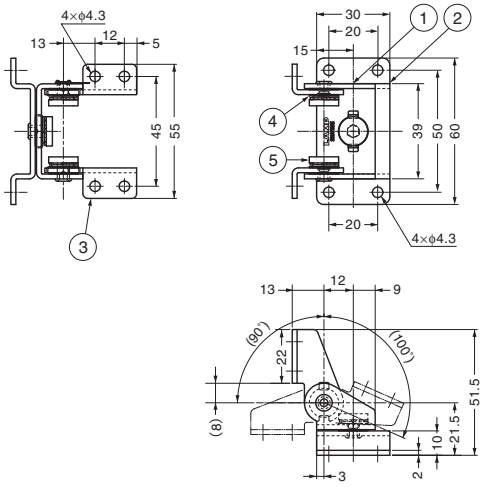
■Remarks

- Operating temperature : 0 ℃～ 40 ℃
- Suitable for monitor screen.

Video Link

■Application Example





No.	Part Name	Material	Finish
①	Base	Stainless Steel (SUS430)	Mirror
②	Base Plate	Stainless Steel (SUS430)	Mirror
③	Bracket	Stainless Steel (SUS430)	Mirror
④	Plate	Steel	—
⑤	Shaft	Stainless Steel (SUS303)	—

Item Code	Item Name	Torque Moment (Tilting)		Torque Moment (Swiveling)		Weight	Box	Carton
170-020-826	HG-T30S15	3.0±20% N・m	30.6±20% kgf・cm	1.5±20% N・m	15.3±20% kgf・cm	87 g	12 pcs	96 pcs

TORQUE HINGE (DUAL AXIS)

STAINLESS 430 STEEL

HG-T70S30



■Features

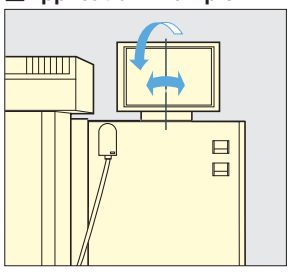
- Dual Axis: Can hold at any angle in tilt & swivel.
- Provides torque stability in both directions.
- Able to limit the operating angle with pin (pin is not included).

■Remarks

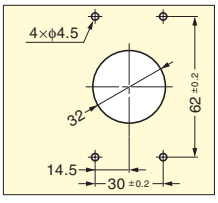
- Operating temperature : 0 ℃～ 40 ℃
- Suitable for monitor screen.

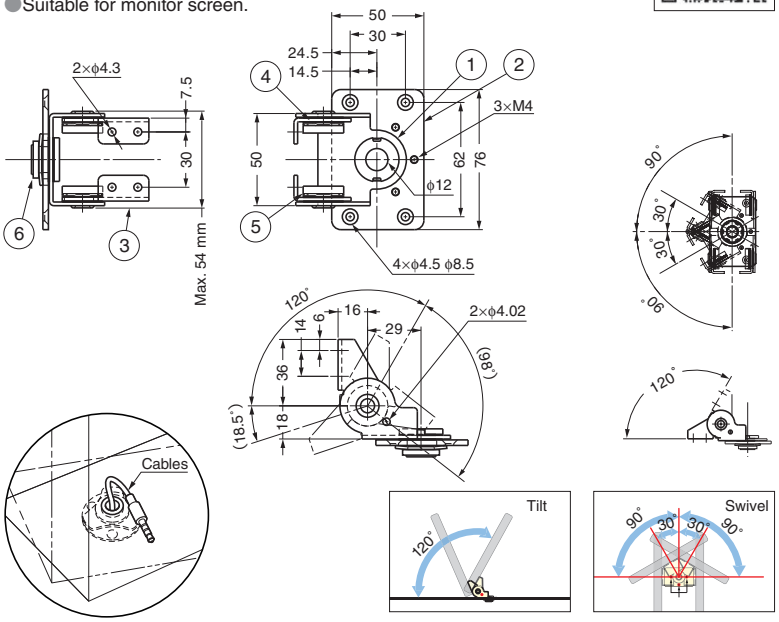
Video Link

■Application Example



■Cut Out Dimensions





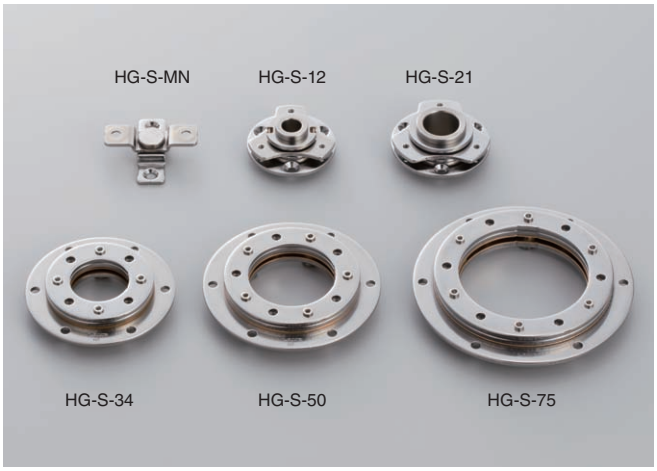
No.	Part Name	Material	Finish
①	Base	Stainless Steel (SUS430)	Mirror
②	Base Plate	Stainless Steel (SUS430)	Mirror
③	Bracket	Stainless Steel (SUS430)	Mirror
④	Plate	Steel	—
⑤	Shaft	Stainless Steel (SUS303)	—
⑥	Washer	Stainless Steel (SUS430)	Mirror

Item Code	Item Name	Torque Moment (Tilting)		Torque Moment (Swiveling)		Weight	Box	Carton
170-012-419	HG-T70S30	7.0±20% N・m	71.4±20% kgf・cm	3.0±20% N・m	30.6±20% kgf・cm	233 g	5 pcs	40 pcs

SWIVEL TORQUE HINGE

STAINLESS 430 STEEL

HG-S

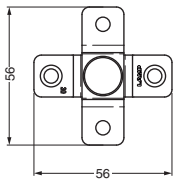


■Features

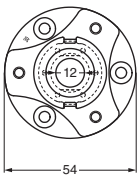
- Rotation angle: 360˚
- Centre hole for easy cable management (except for HG-S-MN).

Video Link

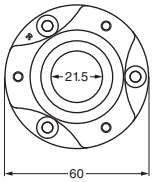
Item Code	Item Name	Hole Diameter	Size	Torque Moment	Weight	Box	Carton	Page
170-029-726	HG-S7-MN	—	56	0.7$^{\pm 20\%}$ N・m (7.1$^{\pm 20\%}$ kgf・cm)	49 g	25 pcs	200 pcs	P.440
170-029-727	HG-S20-MN			2.0$^{\pm 20\%}$ N・m (20.4$^{\pm 20\%}$ kgf・cm)	49 g	25 pcs	200 pcs	
170-021-976	HG-S30-12	φ12	φ54	3.0$^{\pm 20\%}$ N・m (30.6$^{\pm 20\%}$ kgf・cm)	131 g	10 pcs	100 pcs	
170-021-975	HG-S50-12			5.0$^{\pm 20\%}$ N・m (51.0$^{\pm 20\%}$ kgf・cm)	131 g	10 pcs	100 pcs	
170-029-728	HG-S30-21	φ21.5	φ60	3.0$^{\pm 20\%}$ N・m (30.6$^{\pm 20\%}$ kgf・cm)	173 g	10 pcs	80 pcs	
170-029-729	HG-S50-21			5.0$^{\pm 20\%}$ N・m (51.0$^{\pm 20\%}$ kgf・cm)	173 g	10 pcs	80 pcs	
170-023-959	HG-S50-34	φ34	φ87	5.0$^{\pm 20\%}$ N・m (51.0$^{\pm 20\%}$ kgf・cm)	274 g	5 pcs	40 pcs	P.441
170-023-960	HG-S70-34			7.0$^{\pm 20\%}$ N・m (71.4$^{\pm 20\%}$ kgf・cm)	276 g	5 pcs	40 pcs	
170-023-961	HG-S70-50	φ50	φ103	7.0$^{\pm 20\%}$ N・m (71.4$^{\pm 20\%}$ kgf・cm)	370 g	5 pcs	40 pcs	
170-023-962	HG-S100-50			10.0$^{\pm 20\%}$ N・m (102.0$^{\pm 20\%}$ kgf・cm)	370 g	5 pcs	40 pcs	
170-029-730	HG-S50-75	φ75	φ128	5.0$^{\pm 20\%}$ N・m (51.0$^{\pm 20\%}$ kgf・cm)	576 g	20 pcs	120 pcs	
170-029-731	HG-S70-75			7.0$^{\pm 20\%}$ N・m (71.4$^{\pm 20\%}$ kgf・cm)	576 g	5 pcs	40 pcs	



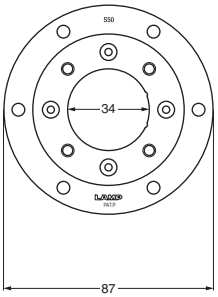
HG-S-MN



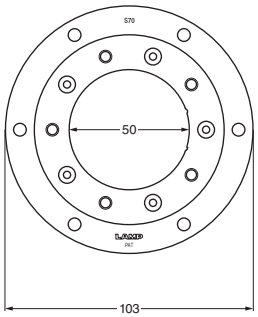
HG-S-12



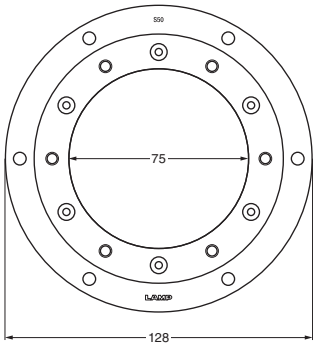
HG-S-21



HG-S-34



HG-S-50



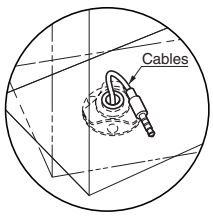
HG-S-75

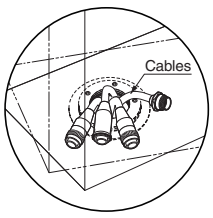
■Application Example

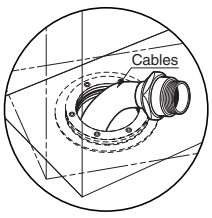
Tablet stand



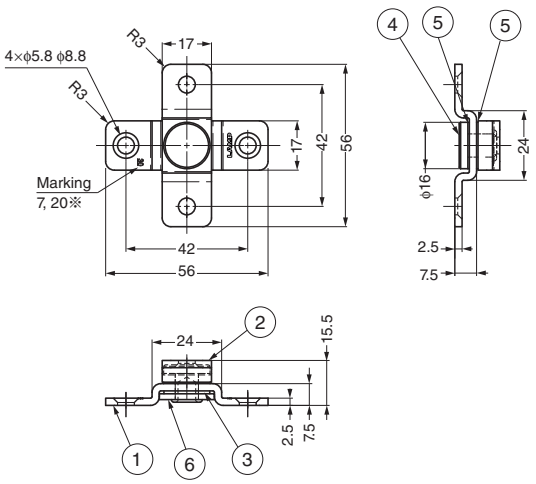
Wire hole





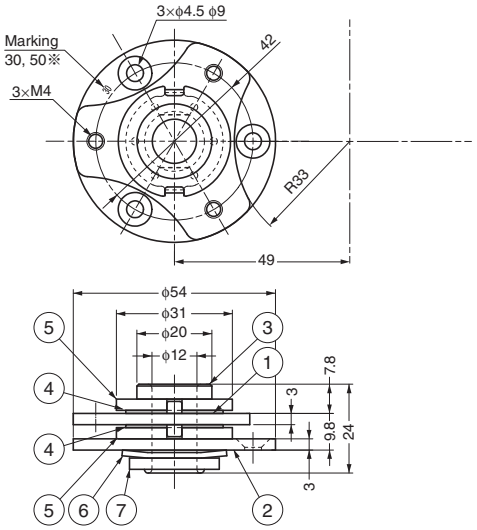


■HG-S-MN



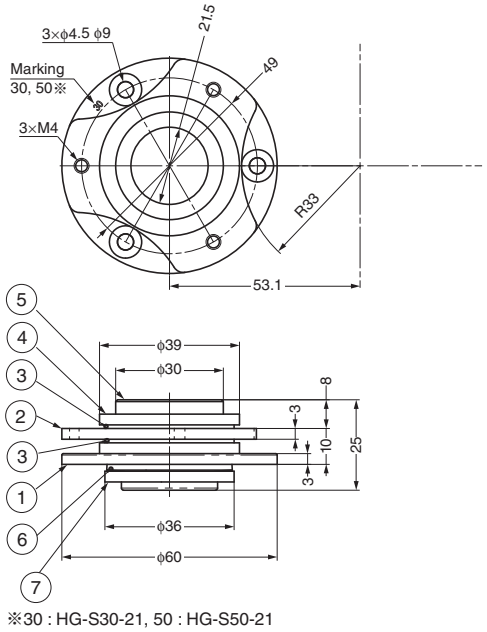
※7 : HG-S7-MN, 20 : HG-S20-MN

■HG-S-12 (Hole Diameter ϕ12)



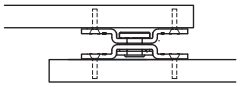
※30 : HG-S30-12, 50 : HGS50-12

■HG-S-21 (Hole Diameter ϕ21.5)



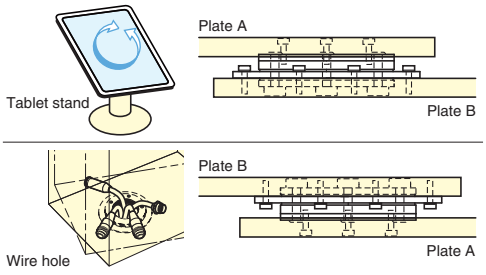
※30 : HG-S30-21, 50 : HG-S50-21

■Installation

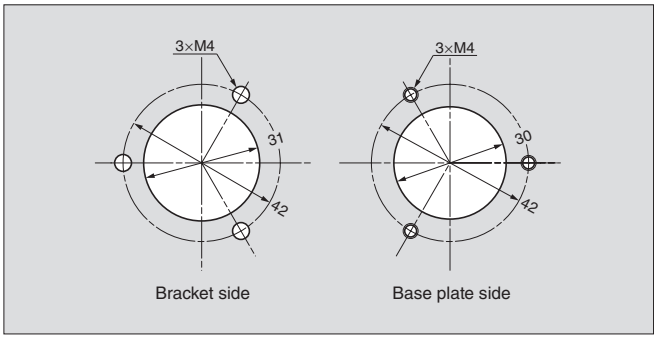


No.	Part Name	Material	Finish
①	Bracket B	Stainless Steel (SUS430)	Mirror
②	Bracket A		
③	F Plate	Bronze	–
④	Shaft	Stainless Steel (SUS303)	
⑤	Spring Washer	Stainless Steel	
⑥	Washer	Stainless Steel (SUS430)	Mirror

■Installation

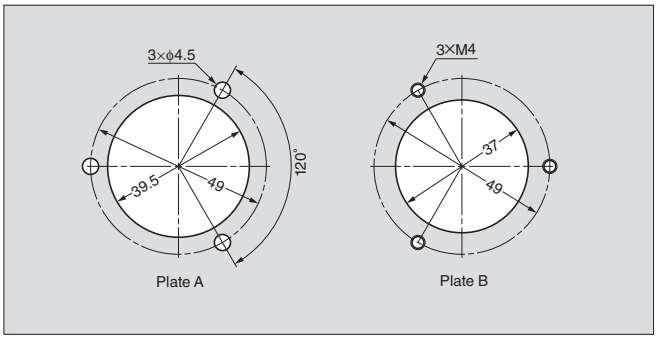


■Cut Out Dimensions



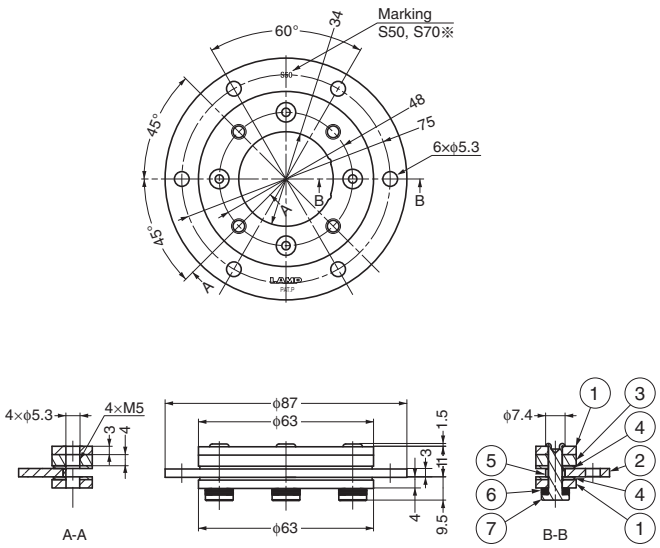
No.	Part Name	Material	Finish
①	Bracket	Stainless Steel (SUS430)	Mirror
②	Base Plate		
③	Sleeve	Stainless Steel (SUS303)	–
④	F Plate	Bronze	
⑤	Washer	Stainless Steel (SUS430)	Mirror
⑥	Spring Washer	Steel	–
⑦	Washer	Stainless Steel (SUS430)	

■Cut Out Dimensions



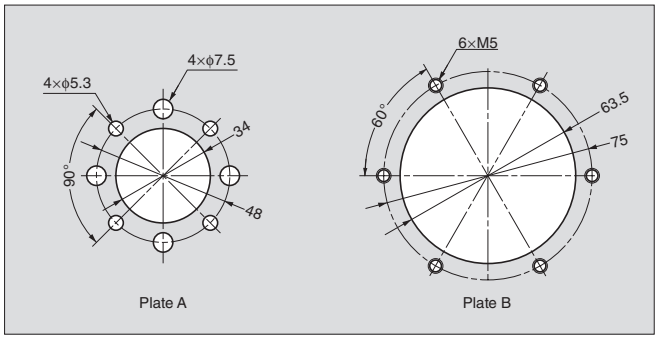
No.	Part Name	Material	Finish
①	Plate B	Stainless Steel (SUS430)	Mirror
②	Plate A		
③	F Plate	Bronze	Polished
④	Washer	Stainless Steel (SUS430)	Mirror
⑤	Sleeve	Stainless Steel (SUS303)	Plain
⑥	Spring Washer	Stainless Steel	–
⑦	Washer	Stainless Steel (SUS430)	

■HG-S-34 (Hole Diameter ϕ34)



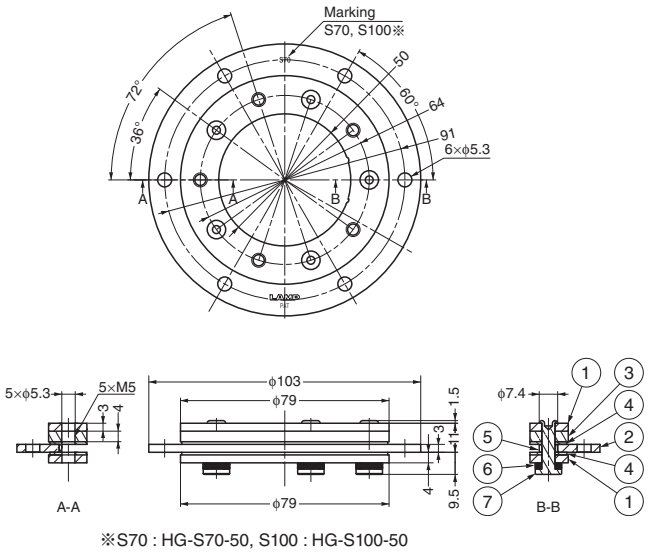
※S50 : HG-S50-34, S70 : HG-S70-34

■Cut Out Dimensions



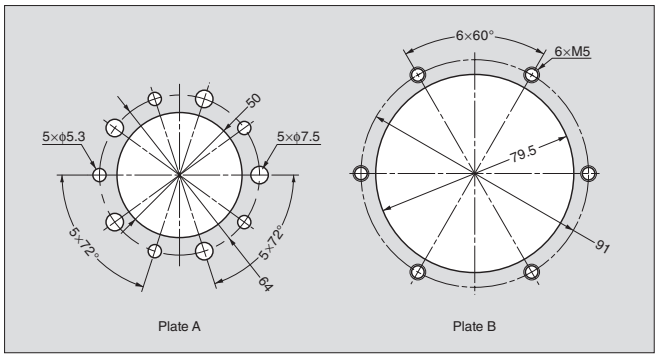
No.	Part Name	Material	Finish
①	Plate A	Stainless Steel (SUS430)	Mirror
②	Plate B		
③	Plate C		
④	F Plate	Bronze	–
⑤	Bush	Polyacetal (POM)	
⑥	Spring Washer	Stainless Steel	
⑦	Shaft	Stainless Steel (SUS303)	

■HG-S-50 (Hole Diameter ϕ50)



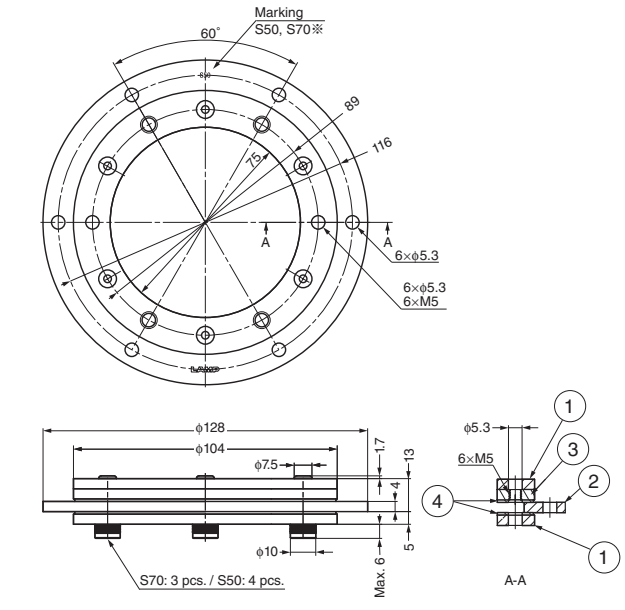
※S70 : HG-S70-50, S100 : HG-S100-50

■Cut Out Dimensions



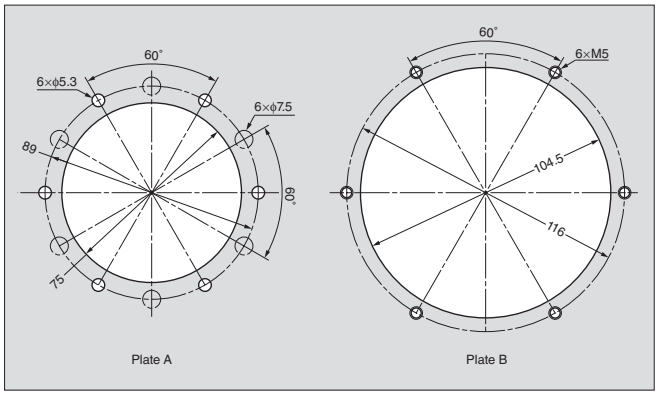
No.	Part Name	Material	Finish
①	Plate A	Stainless Steel (SUS430)	Mirror
②	Plate B		
③	Plate C		
④	F Plate	Bronze	–
⑤	Bush	Polyacetal (POM)	
⑥	Spring Washer	Stainless Steel	
⑦	Shaft	Stainless Steel (SUS303)	

■HG-S-75 (Hole Diameter ϕ75)



※S50 : HG-S50-75, S70 : HG-S70-75

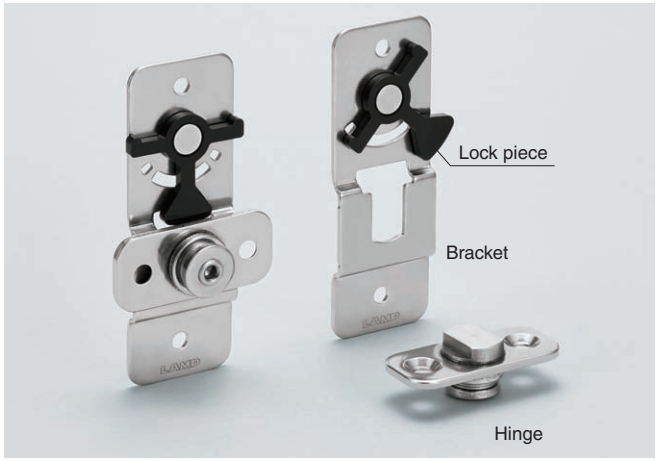
■Cut Out Dimensions



No.	Part Name	Material	Finish
①	Plate A	Stainless Steel (SUS430)	Mirror
②	Plate B		
③	Plate C		
④	F Plate	Bronze	–

DETACHABLE TORQUE HINGE

HG-RNM30



Window Width	Max. 900 mm
Window Height	Max. 450 mm
Window Thickness	28～ 35 mm
Window Weight	Max. 5.5 kg

■Features

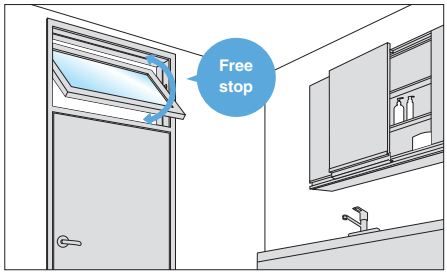
- Allows to maximize the ventilation airflow volumes by rotating the transom window at the centre.
- Possible to stop at any angles and adjust airflow volumes.
- Lock mechanism prevents the window from falling off.

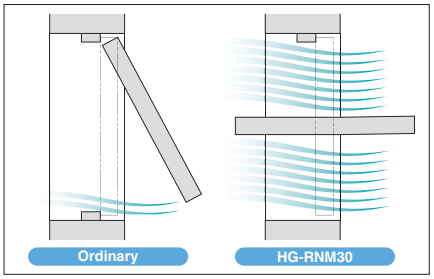
■Parts Included

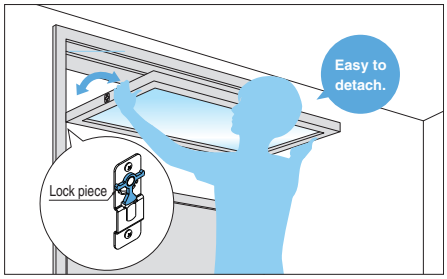
- Pan head tapping screw 4×20
- Countersunk head tapping screw 4×20

■Remarks

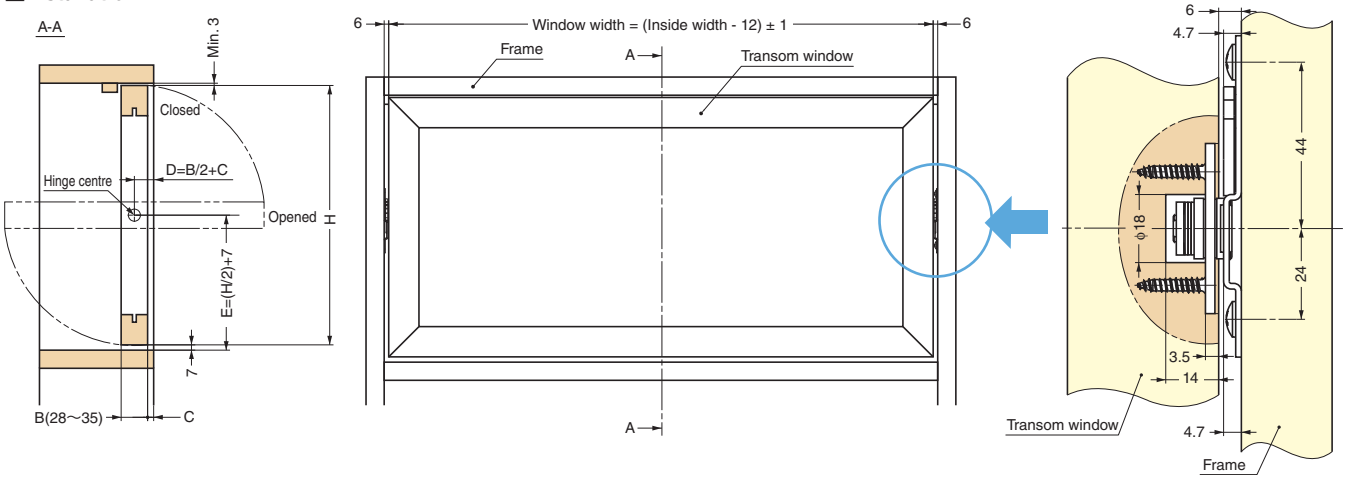
Vertical use only.

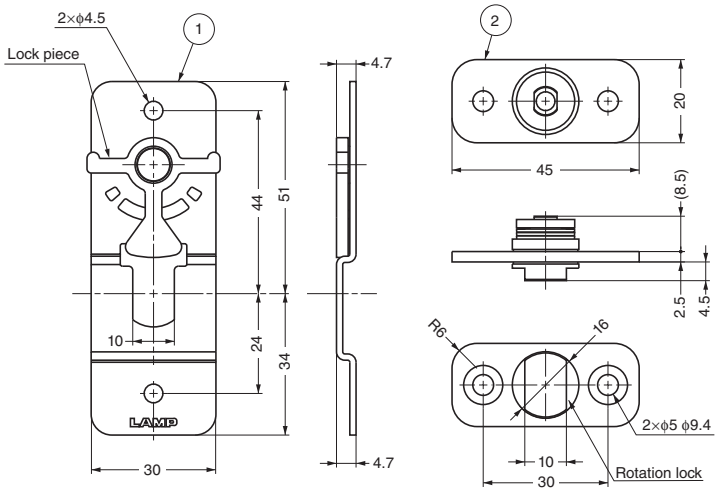




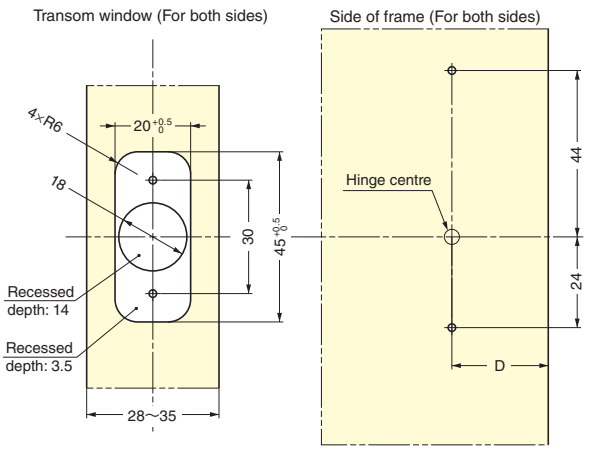


■Installation





■Cut Out Dimensions



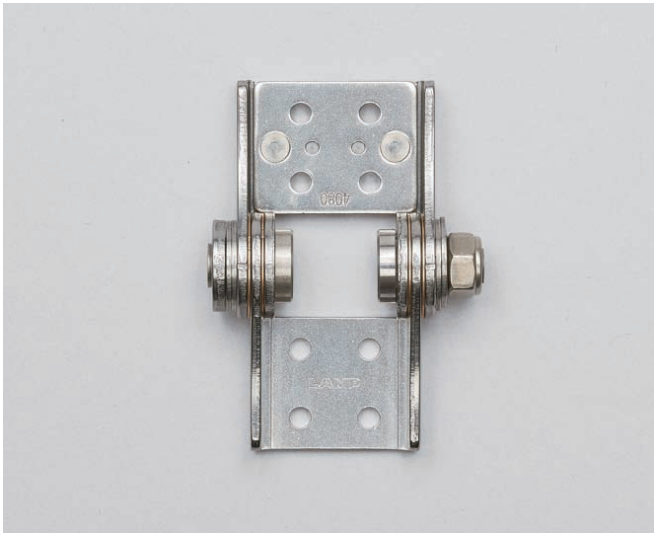
Item Code	Item Name	Torque Moment (Per pair)	Weight	Box	Carton
170-033-319	HG-RNM30-SET	3.0 ±20% N・m (30.6 ±20% kgf・cm)	112 g	15 sets	120 sets

No.	Part Name	Material
①	Strike	Stainless Steel, POM
②	Hinge	Stainless Steel

ADJUSTABLE TORQUE HINGE

STAINLESS 430 STEEL

HG-ITJ4080



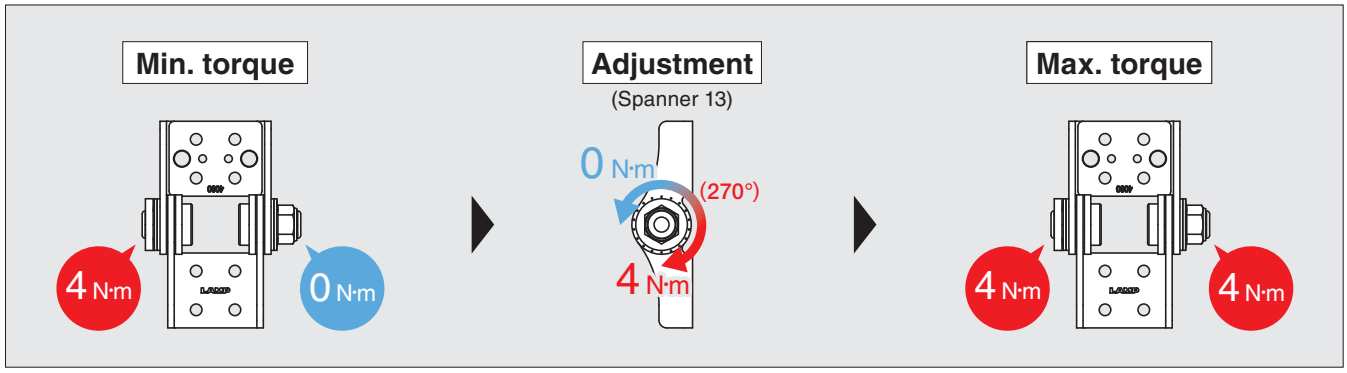
■**Features**

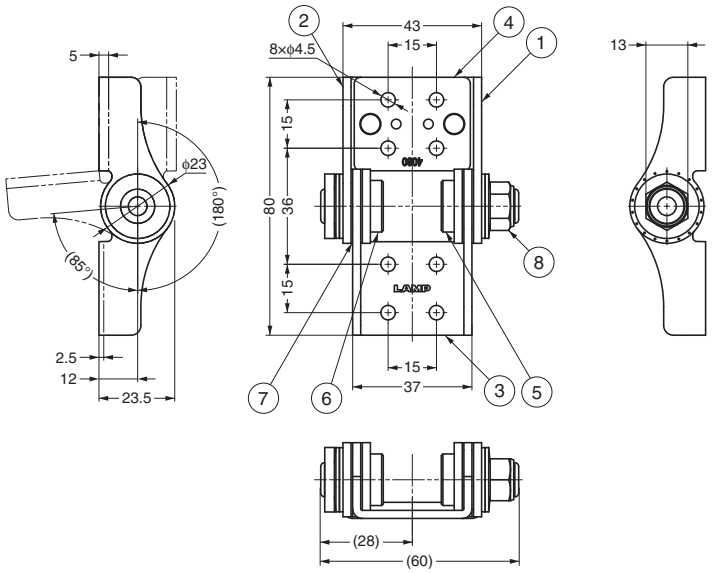
- Torque adjustable from 4 to 8 N・m.
- To prevent accidental fall of the flap, minimum torque is set at 4 N・m.
- Stable torque throughout lifetime: no re-adjustment necessary.

■**Remarks**

Recommended for use in pairs.

Video Link





No.	Part Name	Material	Finish
①	Bracket A	Stainless Steel (SUS430)	Mirror
②	Bracket B		
③	Bracket C		
④	Connecting Plate		
⑤	Shaft A	Stainless Steel	–
⑥	Shaft B		
⑦	Washer	Bronze	Polished
⑧	Torque Adjustment Nut M8	Stainless Steel (SUSXM7)	–

Item Code	Item Name	Torque Moment (Per piece)	Weight	Box	Carton
170-029-802	HG-ITJ4080	$4^{\pm 20\%}$ ～ 8 N・m ($41^{\pm 20\%}$ ～ 82 kgf・cm)	163 g	10 pcs	80 pcs

ADJUSTABLE ONE WAY TORQUE HINGE HG-TQJ100

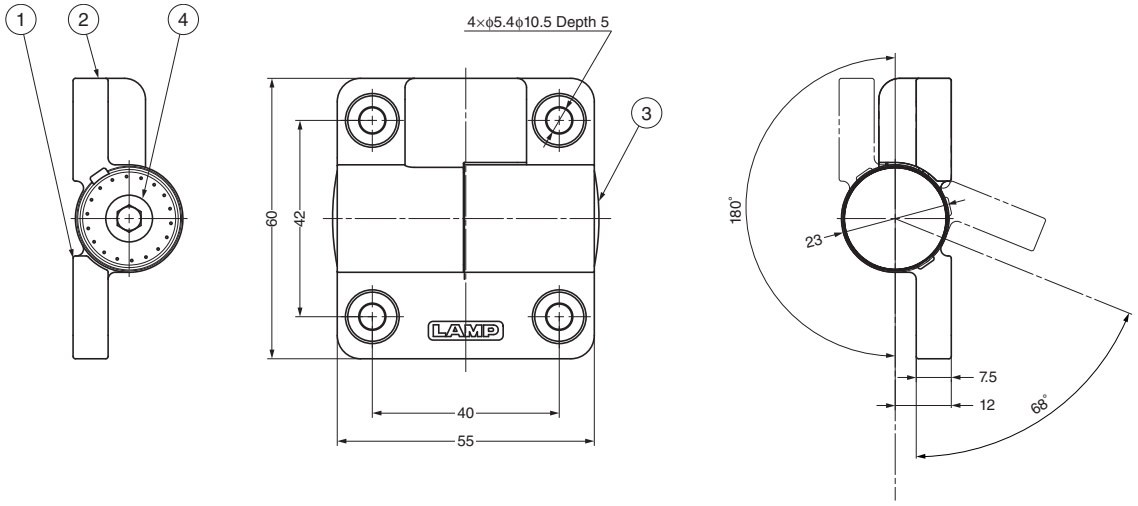


■Features

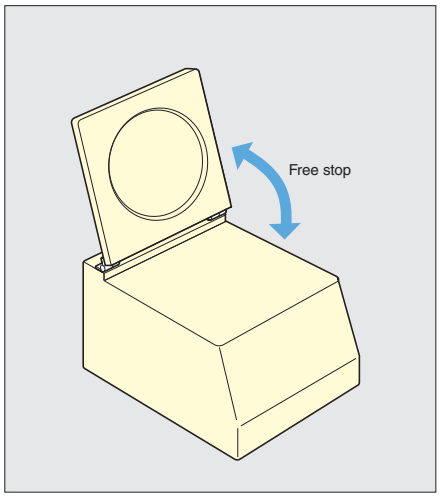
- Friction in one direction only: Allows for frictionless handling of the door in the opposite direction.
- Torque adjustable from 0 to 10 N・m.
- Torque force is stable.

■Remarks

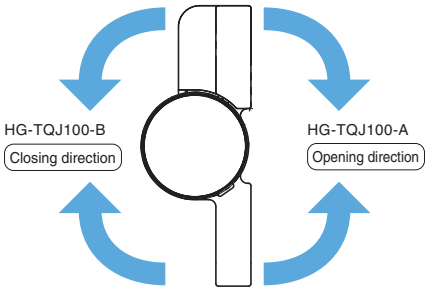
- Recommended for use in pairs.
- Use hex key (size 5) for adjustment.



■Application Example



■Torque Working Direction



Item Code	Item Name	Torque Working Direction	Torque Moment	Weight	Box	Carton
170-032-969	HG-TQJ100-A	Opening	0〜10 N・m (0〜102 kgf・cm)	242 g	12 pcs	96 pcs
170-032-970	HG-TQJ100-B	Closing				

No.	Part Name	Material	Finish/Colour
①	Bracket A	Zinc Alloy	Satin Chrome
②	Bracket B		
③	Cover	Polypropylene (PP)	Dark Grey
④	Torque Adjustment Nut	Stainless Steel	–

ONE WAY TORQUE HINGE

HG-TQA



■Features

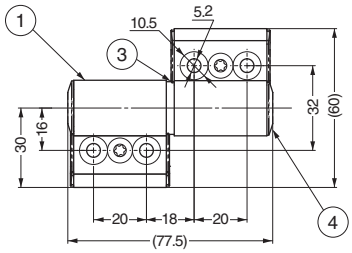
- Torque hinge with aluminium body.
- Friction in one direction only : Allows for frictionless handling of the door in the opposite direction.

■Remarks

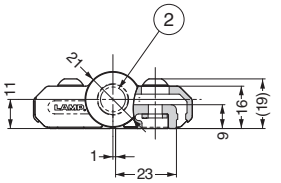
- Operating temperature : 0 ℃～ 50 ℃
- Torque will be affected by temperature.
- Not suited to vibration environment.
- Sold in pairs.

■Recommended Screw

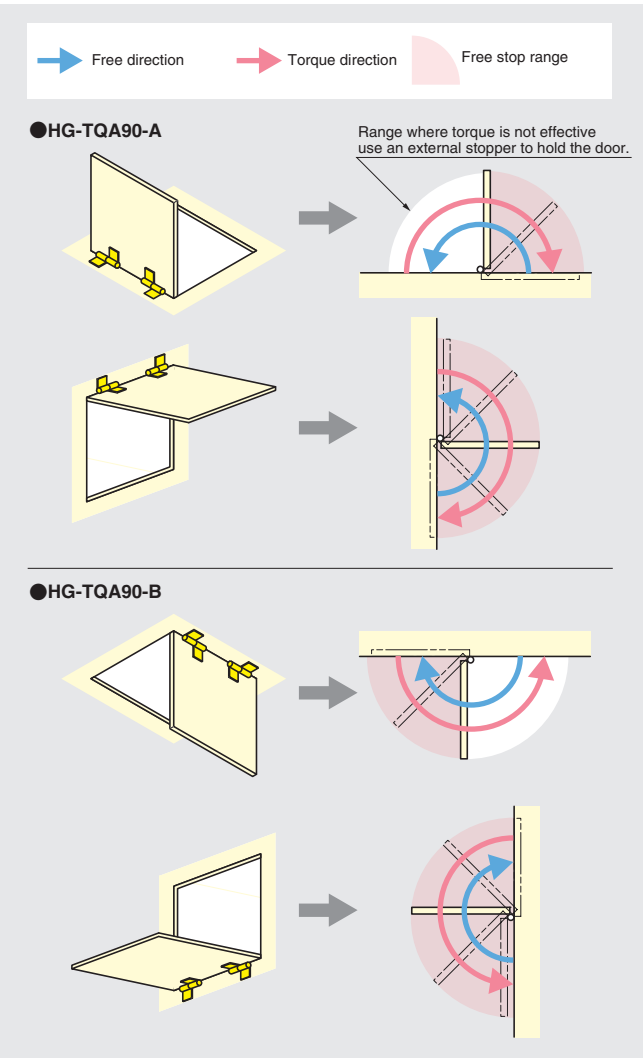
M5 binding head screw



Video Link

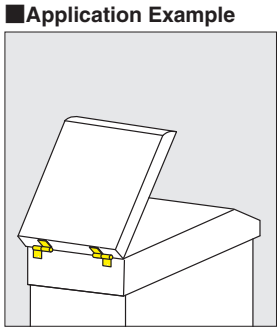


■Torque and Free Stop Range

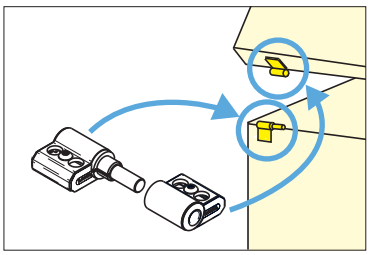


No.	Part Name	Material	Finish/Colour
①	Body	Aluminium Alloy	Anodized Silver
②	Shaft	Stainless Steel	Plain
③	Sleeve	Polyacetal (POM)	Black
④	Cover	Polyacetal (POM)	Black

■Application Example



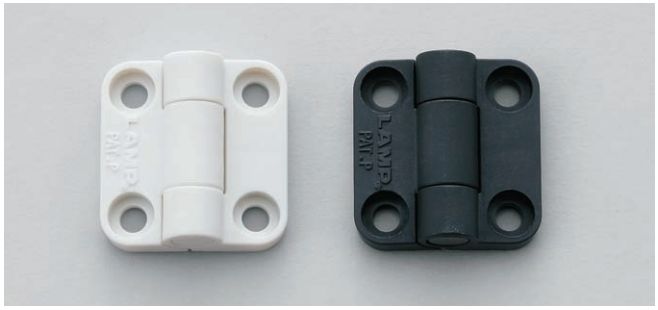
■Installation

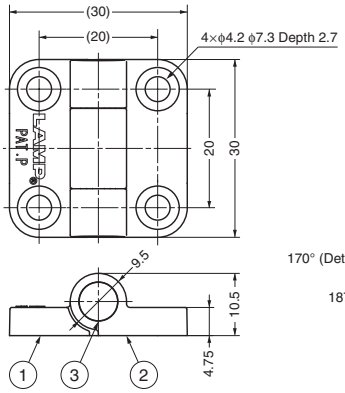


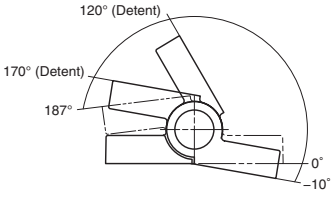
Item Code	Item Name	Torque Moment (Per pair)		Weight	Box
170-021-244	HG-TQA90-A	$9.0^{+40\%}_{-20\%}$ N・m	$91.8^{+40\%}_{-20\%}$ kgf・cm	350 g/set	10 sets
170-021-245	HG-TQA90-B	$9.0^{+40\%}_{-20\%}$ N・m	$91.8^{+40\%}_{-20\%}$ kgf・cm	350 g/set	10 sets

MINI DETENT HINGE

L=R **HG-MPS2**







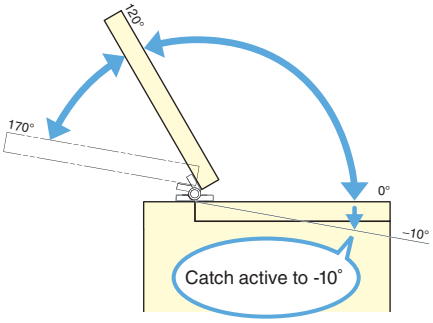
■Features

- Plastic hinge holds doors at 3 different positions without secondary support (-10˚, 120˚ and 170˚).
- Can be used horizontally or vertically.
- Additional stopper is recommended at 0˚ and 170˚.
- Successfully passed for the 40,000 open/close private cycle test.

■Recommended Screw

Pan wood screw M4

Video Link



No.	Part Name	Material	Finish/Colour
①	Bracket A	PBT	Black (BL), White (WT)
②	Bracket B	PBT	Black (BL), White (WT)
③	Cap	ABS	Black (BL), White (WT)

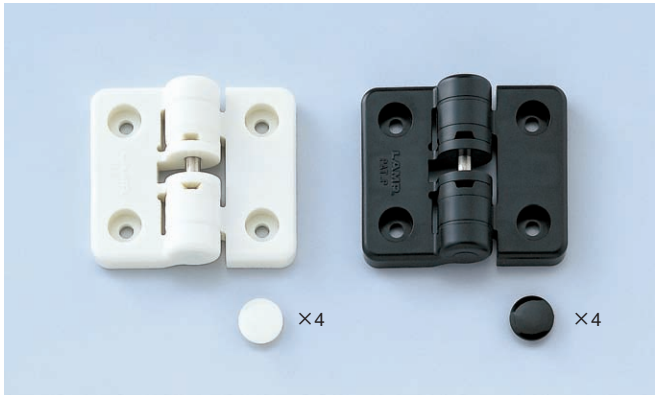
■Applicable Door Size (per 2 pcs)

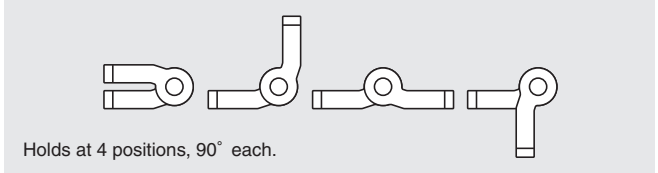
Width	Height	Weight
Max. 370	Max. 460	Max. 1.0 kg

Item Code	Item Name	Colour	Catch Release Torque				Weight	Box	Carton
			−10˚, 170˚		120˚				
170-023-908	HG-MPS2-BL	Black	26.0 cN・m	2.65 kgf・cm	14.5 cN・m	1.48 kgf・cm	8 g	50 pcs	500 pcs
170-023-909	HG-MPS2-WT	White	26.0 cN・m	2.65 kgf・cm	14.5 cN・m	1.48 kgf・cm	8 g	50 pcs	500 pcs

DETENT HINGE

L=R **HG-YJ50**



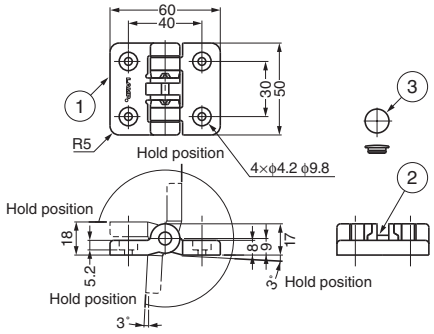


■Features

- Plastic hinge holds doors at 4 different positions (90˚ increment) without secondary support.
- Caps for the screw holes are included.

■Parts Included

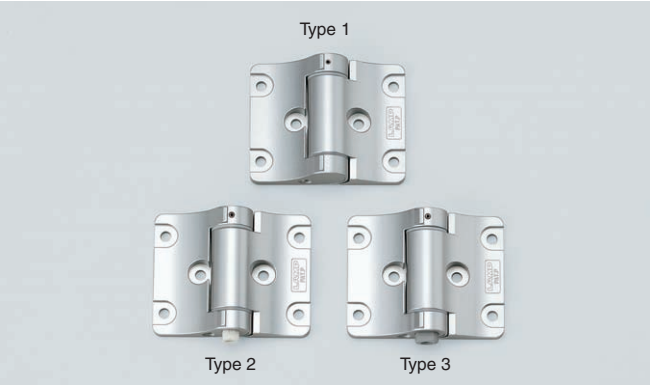
Caps (Ivory : KD-772-3I, Black : KD-772-3B)



No.	Part Name	Material	Finish/Colour
①	Body	Polyacetal (POM)	Ivory (IV), Black (BL)
②	Shaft	Stainless Steel (SUS303)	—
③	Cover	Polypropylene (PP)	Ivory (IV), Black (BL)

Item Code	Item Name	Colour	Door Width	Door Height	Door Weight	Torque Moment (Per piece)		Weight	Box	Carton
170-090-000	HG-YJ50IV	Ivory	Max. 400	Max. 500	Max. 1.2 kg	Approx. 49 cN・m	Approx. 5 kgf・cm	35 g	20 pcs	200 pcs
170-090-002	HG-YJ50BL	Black	Max. 400	Max. 500	Max. 1.2 kg	Approx. 49 cN・m	Approx. 5 kgf・cm	35 g	20 pcs	200 pcs

DETENT HINGE (WITH/WITHOUT DAMPER) HG-CSH63

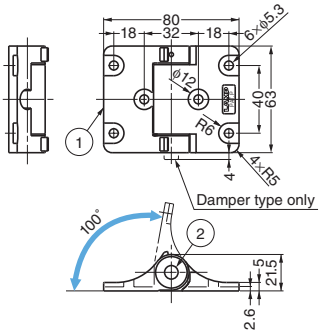


■Features

- Detent hinge with built-in damper as an option.
- Detent will hold lid in open/closed position without secondary support, and optional damper will provide soft-closing.
- Operating angle: 100˚.
  (Detent at both 0˚ and 100˚)

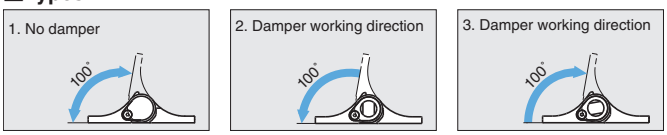
■Remarks

Recommended for use in pairs.

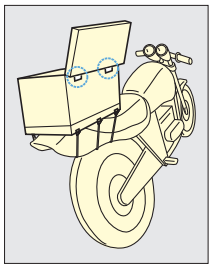


No.	Part Name	Material	Finish
①	Body	Aluminium Alloy	Silver
②	Shaft・Spring	Stainless Steel (SUS304)	—

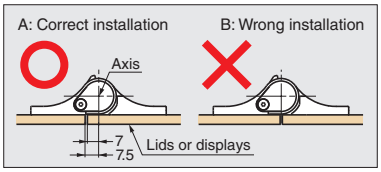
■Types



■Application Example



■Installation



Item Code	Item Name	Type	Damping Direction	Torque Moment (Per piece)		Retaining Force Torque Moment		Opening Angle	Weight	Box	Carton
170-090-044	HG-CSH63	1	With Detent Only	With Detent Only	With Detent Only	0.98 N・m	10 kgf・cm	100˚	115 g	10 pcs	120 pcs
170-090-109	HG-CSH63AM	2	Counter Clockwise	1 ～1.7 N・m	10.2～17.3 kgf・cm	0.98 N・m	10 kgf・cm	100˚	104 g	10 pcs	120 pcs
170-090-108	HG-CSH63AH	2	Counter Clockwise	1.7～2.5 N・m	17.3～25.5 kgf・cm	0.98 N・m	10 kgf・cm	100˚	104 g	10 pcs	120 pcs
170-090-111	HG-CSH63BM	3	Clockwise	1 ～1.7 N・m	10.2～17.3 kgf・cm	0.98 N・m	10 kgf・cm	100˚	117 g	10 pcs	120 pcs
170-090-110	HG-CSH63BH	3	Clockwise	1.7～2.5 N・m	17.3～25.5 kgf・cm	0.98 N・m	10 kgf・cm	100˚	117 g	10 pcs	120 pcs

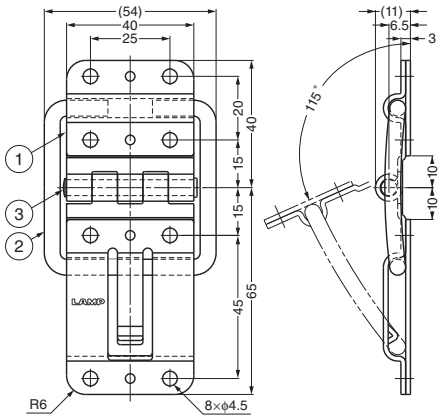
DETENT HINGE L=R STAINLESS 304 STEEL HG-YC105



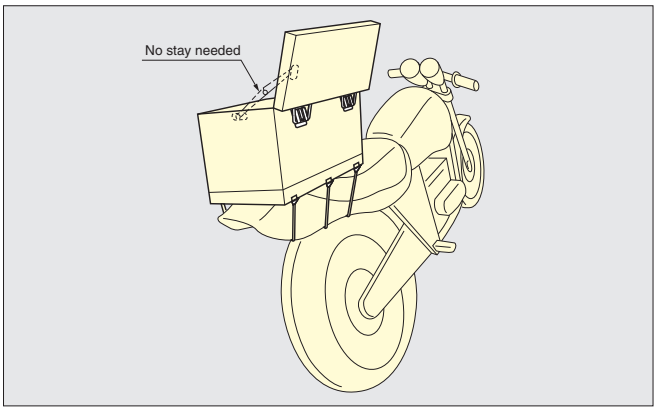
■Features

- Snaps in at 115˚ open position.
- Holds door open without secondary support.





■Application Example



No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Mirror
②	Stopper	Stainless Steel (SUS304)	—
③	Shaft	Stainless Steel (SUS304)	—

Item Code	Item Name	Retaining Force (Per piece)		Weight	Box	Carton
170-099-093	HG-YC105	Approx. 1.18 N・m	Approx. 12 kgf・cm	122 g	10 pcs	100 pcs

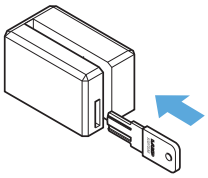
GLASS SHOWCASE HARDWARE SERIES DIGEST XL-GC



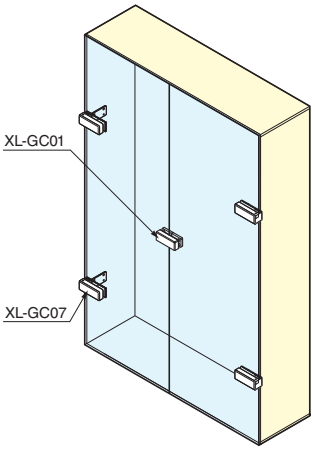
■Features

- Hinges, Locks and Sliding door hardware with integrated design.
- Swing and Sliding Doors can be operated with a single key.
- Key hole is located on the side for clean appearance.
- Insert key to unlock.
- Locks when key is pulled out.

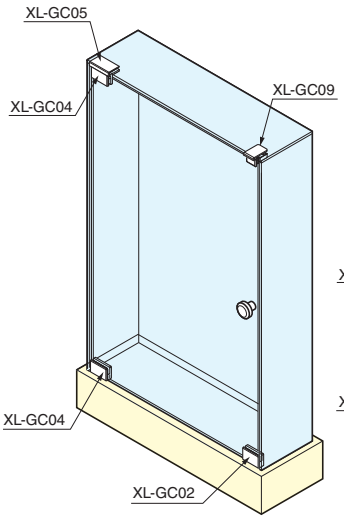
Video Link



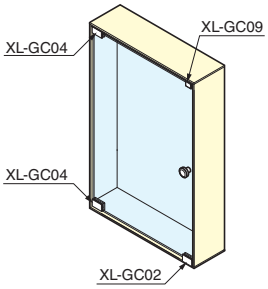
■Double Door



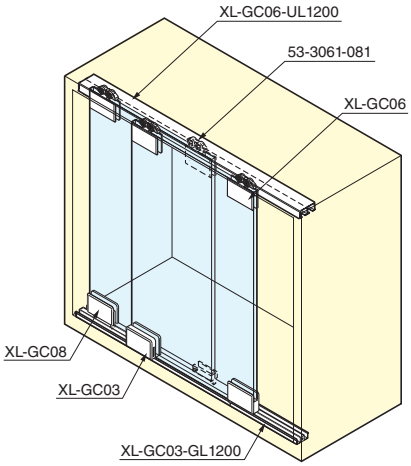
■Swing Door



Can be installed on wooden cabinet.



■Sliding Door



■Locks

Part Name	Item Name		Page
For Double Doors	XL-GC01-CR		P.337
For Swing Doors	XL-GC02-CR		
For Sliding Doors	XL-GC03-CR		

■Hinges

Part Name	Item Name		Page
Inset Type	XL-GC04-CR		P.449
Overlay Type	XL-GC07-CR		
Glass Bracket	XL-GC05-CR		

■Sliding Door Hardware

Part Name	Item Name		Page
Upper Bracket	XL-GC06-CR		P.642
Bottom Guide Bracket	XL-GC08-CR		

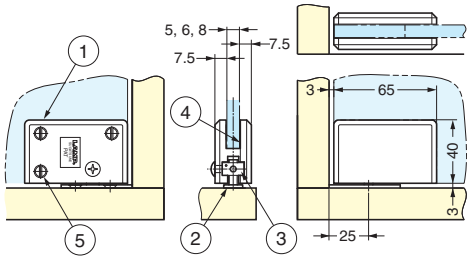
■Catch

Part Name	Item Name		Page
Magnetic Catch	XL-GC09-CR		P.274

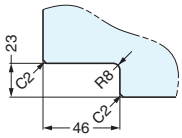
GLASS PIVOT HINGE (INSET) XL-GC04-CR



■Features
- Inset-type hinge for glass cabinet.
- 1 pair (top / bottom) per set.



■Cut Out Dimensions



No.	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy (ZDC)	Chrome
②	Bottom Plate	Steel	Chrome
③	Plate	Stainless Steel (SUS304)	Plain
④	Spacer	Polyvinyl Chloride Resin (PVC)	Clear
⑤	Screw	Stainless Steel (SUS304)	Plain

Item Code	Item Name	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Carton
170-080-009	XL-GC04-CR	Max. 500	Max. 1200	5, 6, 8	Max. 12 kg/set	580 g	24 pcs

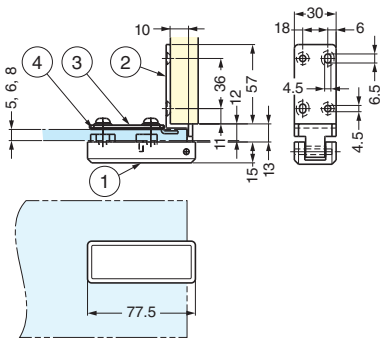
GLASS HINGE (OVERLAY, W/ CATCH) L=R XL-GC07-CR



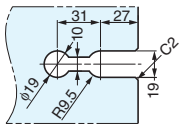
■Features
- Hinge with catch for overlay door of glass cabinet.
- Can be used with XL-GC01-CR (P.337).

■Remarks

Can not be used with XL-GC02 because the lock is only for inset doors.



■Cut Out Dimensions



No.	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy (ZDC)	Chrome
②	Hinge Plate	Zinc Alloy (ZDC)	Chrome
③	Back Plate	Steel	Chrome
④	Spacer	Rubber	Black

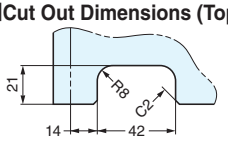
Item Code	Item Name	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Carton
170-080-008	XL-GC07-CR	Max. 500	Max. 1200	5, 6, 8	Max. 12 kg/2 pcs	303 g	24 pcs

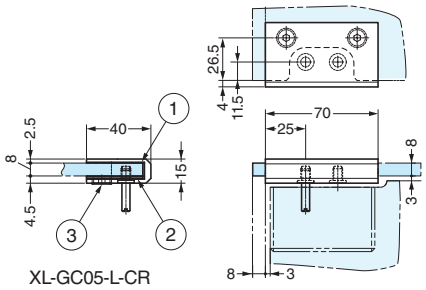
GLASS BRACKET XL-GC05-CR



■Features
- Top board hinge bracket for glass cabinet.
- To be used with XL-GC04-CR (above).

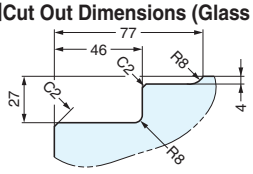
■Cut Out Dimensions (Top Board)





XL-GC05-L-CR

■Cut Out Dimensions (Glass Door)



No.	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy (ZDC)	Chrome
②	Spacer	Polyvinyl Chloride Resin (PVC)	Clear
③	Screw	Stainless Steel (SUS304)	Plain

Item Code	Item Name	Type	Material	Finish	Glass Thickness	Weight	Carton
170-080-011	XL-GC05-R-CR	Right	Zinc Alloy (ZDC)	Chrome	8	180 g	24 pcs
170-080-010	XL-GC05-L-CR	Left	Zinc Alloy (ZDC)	Chrome	8	180 g	24 pcs

INSET GLASS DOOR HINGE

L=R

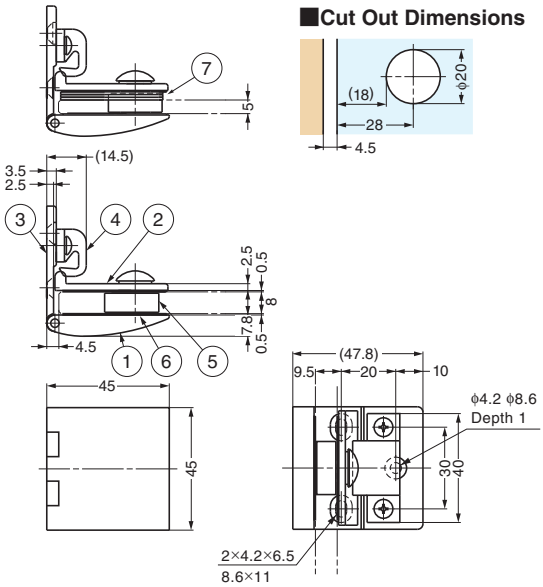
GH-450



■Features

- Suitable for showcases.
- Mounting position adjustable: Vertically -2 mm
  Horizontally -2.5 mm
- Spacer included to accommodate different glass thickness.

■Cut Out Dimensions



■Recommended Screws

Size 4 countersunk head screw

No.	Part Name	Material	Finish/Colour		
			SN	CR	GC
①	Front Plate	Brass	Satin Nickel	Chrome	Gold
②	Fixing Plate	Brass	Satin Nickel	Chrome	Gold
③	Hinge Plate	Brass	Satin Nickel	Chrome	Gold
④	Catch	Polyamide (PA)	Black	Black	Black
⑤	Glass Adjustment Block	Polyamide (PA)	Black	Black	Black
⑥	Pad	Chloroprene Rubber (CR)	Black	Black	Black
⑦	Spacer	Polypropylene (PP)	Black	Black	Black

Item Code	Item Name	Finish	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-090-699	GH-450-SN	Satin Nickel	Max. 600	Max. 1200	5, 6, 8	Max. 15 kg/2 pcs	207 g	10 pcs	40 pcs
170-090-700	GH-450-CR	Chrome	Max. 600	Max. 1200	5, 6, 8	Max. 15 kg/2 pcs	207 g	10 pcs	40 pcs
170-090-701	GH-450-GC	Gold	Max. 600	Max. 1200	5, 6, 8	Max. 15 kg/2 pcs	207 g	10 pcs	40 pcs

■Qty of Spacers

Door Thickness (mm)	5	6	8
Qty of Spacers	3	2	No Spacer

INSET GLASS DOOR HINGE (GLASS FRAME TYPE)

L=R

GH-450G

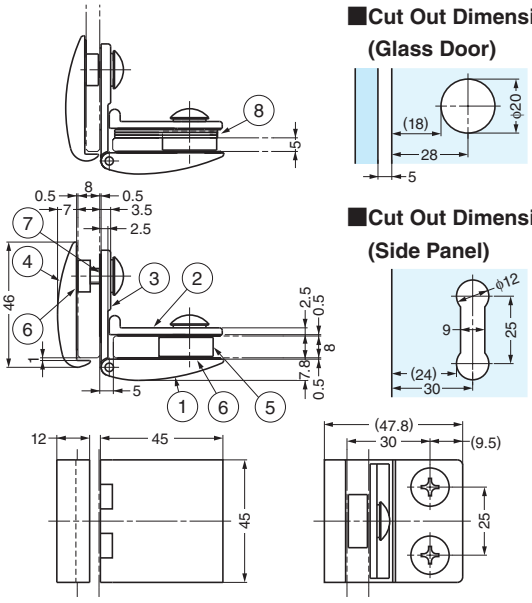


■Features

- Suitable for showcases.
- Mounting position adjustable: Horizontally -2.5 mm
- Spacer included to accommodate different glass thickness.

■Cut Out Dimensions (Glass Door)

■Cut Out Dimensions (Side Panel)



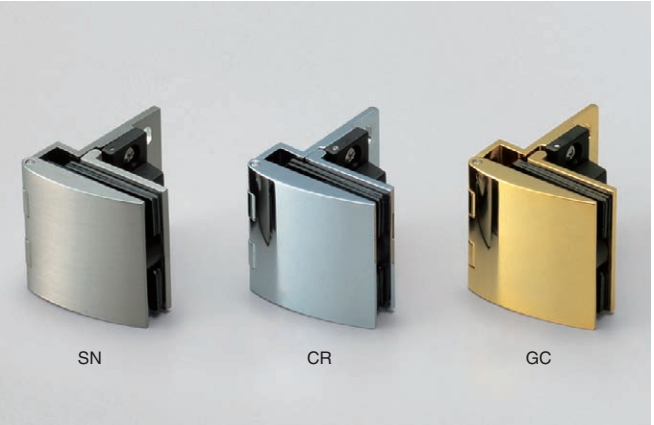
No.	Part Name	Material	Finish/Colour		
			SN	CR	GC
①	Front Plate	Brass	Satin Nickel	Chrome	Gold
②	Fixing Plate	Brass	Satin Nickel	Chrome	Gold
③	Hinge Plate	Brass	Satin Nickel	Chrome	Gold
④	Side Plate	Brass	Satin Nickel	Chrome	Gold
⑤	Glass Adjustment Block	Polyamide (PA)	Black	Black	Black
⑥	Pad A	Chloroprene Rubber (CR)	Black	Black	Black
⑦	Pad B	Chloroprene Rubber (CR)	Black	Black	Black
⑧	Spacer	Polypropylene (PP)	Black	Black	Black

Item Code	Item Name	Finish	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-090-705	GH-450G-SN	Satin Nickel	Max. 600	Max. 1200	5, 6, 8	Max. 15 kg/2 pcs	314 g	10 pcs	80 pcs
170-090-706	GH-450G-CR	Chrome	Max. 600	Max. 1200	5, 6, 8	Max. 15 kg/2 pcs	314 g	10 pcs	80 pcs
170-090-707	GH-450G-GC	Gold	Max. 600	Max. 1200	5, 6, 8	Max. 15 kg/2 pcs	314 g	10 pcs	80 pcs

■Qty of Spacers

Door Thickness (mm)	5	6	8
Qty of Spacers	3	2	No Spacer

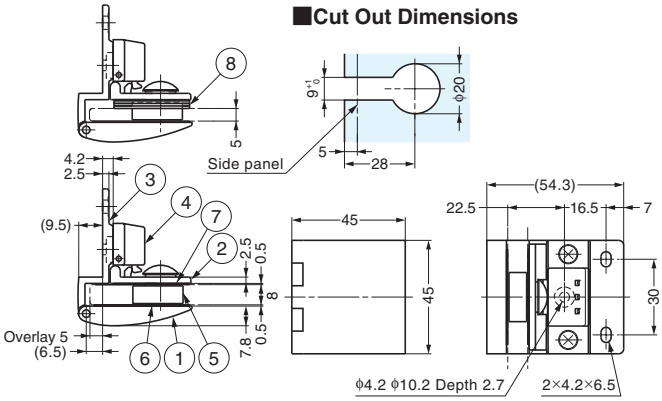
HALF OVERLAY GLASS DOOR HINGE (W/ CATCH) L=R GH-456C



■Features

- Suitable for showcases.
- Mounting position adjustable: Vertically -2 mm
  Horizontally -2.5 mm
- Spacer included to accommodate different glass thickness.

■Cut Out Dimensions



■Recommended Screws

Size 4 countersunk head screw

No.	Part Name	Material	Finish/Colour		
			SN	CR	GC
①	Front Plate	Brass	Satin Nickel	Chrome	Gold
②	Fixing Plate	Brass	Satin Nickel	Chrome	Gold
③	Hinge Plate	Brass	Satin Nickel	Chrome	Gold
④	Catch	PBT, Polyacetal (POM)	Black	Black	Black
⑤	Glass Adjustment Block	Polyamide (PA)	Black	Black	Black
⑥	Pad A	Polyvinyl Chloride Resin (PVC)	Black	Black	Black
⑦	Pad B	Polyvinyl Chloride Resin (PVC)	Black	Black	Black
⑧	Spacer	Polypropylene (PP)	Black	Black	Black

■Qty of Spacers

Door Thickness (mm)	5	6	8
Qty of Spacers	3	2	No Spacer

Item Code	Item Name	Finish	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-020-968	GH-456C-SN	Satin Nickel	Max. 600	Max. 1200	5, 6, 8	Max. 15 kg/2 pcs	216 g	10 pcs	80 pcs
170-020-969	GH-456C-CR	Chrome	Max. 600	Max. 1200	5, 6, 8	Max. 15 kg/2 pcs	216 g	10 pcs	80 pcs
170-020-970	GH-456C-GC	Gold	Max. 600	Max. 1200	5, 6, 8	Max. 15 kg/2 pcs	216 g	10 pcs	80 pcs

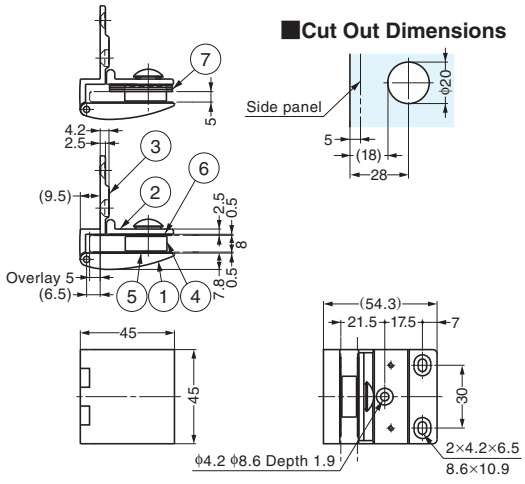
HALF OVERLAY GLASS DOOR HINGE (W/O CATCH) L=R GH-456N



■Features

- Suitable for showcases.
- Mounting position adjustable: Vertically -2 mm
  Horizontally -2.5 mm
- Spacer included to accommodate different glass thickness.

■Cut Out Dimensions



■Recommended Screws

Size 4 truss head screw

No.	Part Name	Material	Finish/Colour		
			SN	CR	GC
①	Front Plate	Brass	Satin Nickel	Chrome	Gold
②	Fixing Plate	Brass	Satin Nickel	Chrome	Gold
③	Hinge Plate	Brass	Satin Nickel	Chrome	Gold
④	Glass Adjustment Block	Polyamide (PA)	Black	Black	Black
⑤	Pad A	Chloroprene Rubber (CR)	Black	Black	Black
⑥	Pad B	Chloroprene Rubber (CR)	Black	Black	Black
⑦	Spacer	Polypropylene (PP)	Black	Black	Black

■Qty of Spacers

Door Thickness (mm)	5	6	8
Qty of Spacers	3	2	No Spacer

Item Code	Item Name	Finish	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-090-702	GH-456N-SN	Satin Nickel	Max. 600	Max. 1200	5, 6, 8	Max. 15 kg/2 pcs	206 g	10 pcs	80 pcs
170-090-703	GH-456N-CR	Chrome	Max. 600	Max. 1200	5, 6, 8	Max. 15 kg/2 pcs	206 g	10 pcs	80 pcs
170-090-704	GH-456N-GC	Gold	Max. 600	Max. 1200	5, 6, 8	Max. 15 kg/2 pcs	206 g	10 pcs	80 pcs

INSET GLASS DOOR HINGE

L=R STAINLESS 304 STEEL

XL-GH03-48-0



■Features

Hinge for medium size glass/acrylic doors.

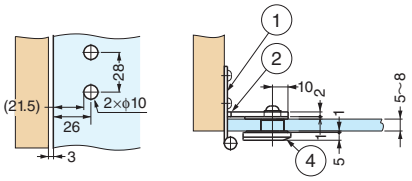
■Remarks

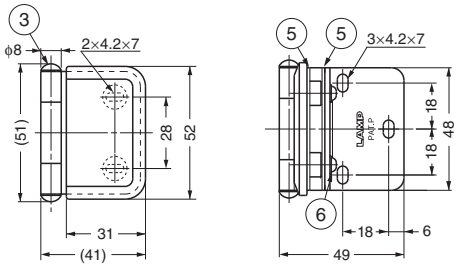
Recommended for use in pairs.

■Parts Included

- Washer (2 pcs.)
- Truss head screw M4×12 (2 pcs.)

■Cut Out Dimensions





No.	Part Name	Material	Finish/Colour	
			CR	GC
①	Hinge Plate	Stainless Steel (SUS304)	Mirror	Gold, Clear
②	Arm	Stainless Steel (SUS304)	Mirror	Gold, Clear
③	Shaft	Stainless Steel (SUS304)	Mirror	Plain, Gold, Clear
④	Plate	Zinc Alloy (ZDC)	Chrome	Gold, Clear
⑤	Spacer	Polyethylene	Natural	Natural
⑥	Screw	Stainless Steel (SUS304)	Plain	Plain, Gold, Clear

Item Code	Item Name	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-098-651	XL-GH03-48-0CR	Max. 650	Max. 900	5, 6, 8	Max. 12 kg/2 pcs	132 g	10 pcs	100 pcs
170-098-652	XL-GH03-48-0GC	Max. 650	Max. 900	5, 6, 8	Max. 12 kg/2 pcs	144 g	10 pcs	100 pcs

HALF OVERLAY GLASS DOOR HINGE

L=R STAINLESS 304 STEEL

XL-GH03-48-8



■Features

Hinge for medium size glass/acrylic doors.

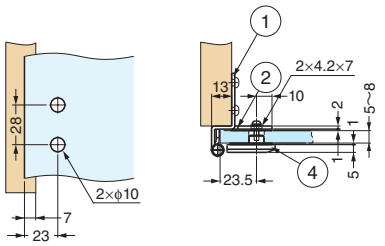
■Remarks

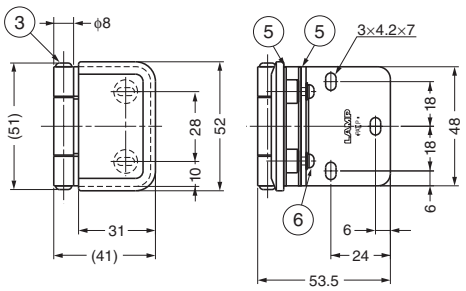
Recommended for use in pairs.

■Parts Included

- Washer (2 pcs.)
- Truss head screw M4×12 (2 pcs.)

■Cut Out Dimensions





No.	Part Name	Material	Finish/Colour	
			CR	GC
①	Hinge Plate	Stainless Steel (SUS304)	Mirror	Gold, Clear
②	Arm	Stainless Steel (SUS304)	Mirror	Gold, Clear
③	Shaft	Stainless Steel (SUS304)	Mirror	Plain, Gold, Clear
④	Plate	Zinc Alloy (ZDC)	Chrome	Gold, Clear
⑤	Spacer	Polyethylene	Natural	Natural
⑥	Screw	Stainless Steel (SUS304)	Plain	Plain, Gold, Clear

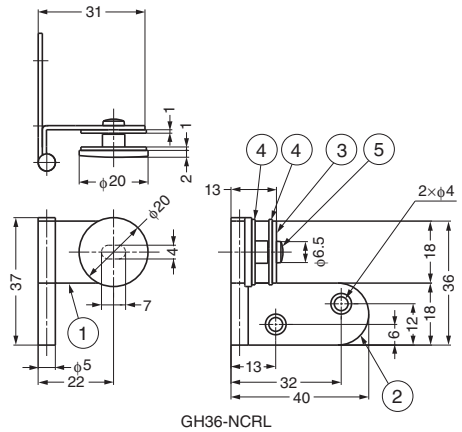
Item Code	Item Name	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-098-649	XL-GH03-48-8CR	Max. 650	Max. 900	5, 6, 8	Max. 12 kg/2 pcs	141 g	10 pcs	100 pcs
170-098-650	XL-GH03-48-8GC	Max. 650	Max. 900	5, 6, 8	Max. 12 kg/2 pcs	148 g	10 pcs	100 pcs

INSET GLASS DOOR LIFT-OFF HINGE GH36-NCR

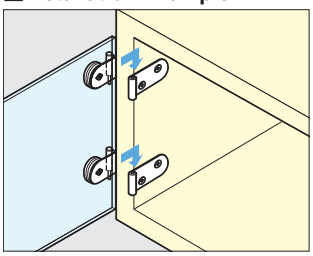

GH36-NCR

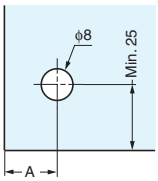
■Features
Hinge for glass/acrylic doors.

■Remarks
Recommended for use in pairs.



GH36-NCRL

■Installation Example


■Cut Out Dimensions


Glass Thickness	A
4	19
5	18
6	17

No.	Part Name	Material	Finish/Colour
①	Body (Male)	Steel	Chrome
②	Body (Female)	Steel	Chrome
③	Plate	Brass	Chrome
④	Washer	Polyvinyl Chloride Resin (PVC)	Clear
⑤	Screw	Steel	Nickel

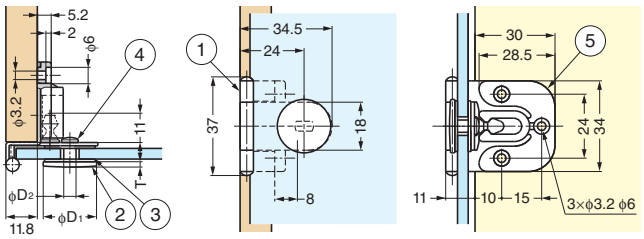
Item Code	Item Name	Type	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-097-958	GH36-NCRR	Right	Max. 450	Max. 700	4, 5, 6	Max. 4 kg/2 pcs	26 g	100 pcs	400 pcs
170-097-957	GH36-NCRL	Left	Max. 450	Max. 700	4, 5, 6	Max. 4 kg/2 pcs	26 g	100 pcs	400 pcs

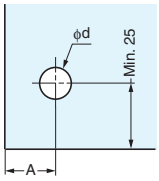
HALF OVERLAY GLASS DOOR HINGE (W/ CATCH) L=R GHC34-8



■Features
- Hinge for glass/acrylic doors.
- Holds door in closed position without secondary support.

■Remarks
Recommended for use in pairs.



■Cut Out Dimensions


Glass Thickness	A	Overlay
4	19	7
5	18	6
6	17	5

No.	Part Name	Material		Finish/Colour
①	Body	GHC34-8G	Steel	Gold, Clear
①	Body	GHC34-8B	Stainless Steel (SUS304)	Black
①	Body	GHC34-8CR	Steel	Chrome
②	Plate	GHC34-8G	Brass	Polished, Clear
②	Plate	GHC34-8B	Aluminium Alloy	Black Anodized
②	Plate	GHC34-8CR	Brass	Chrome
③	Washer	Polyvinyl Chloride Resin (PVC)		Clear
④	Screw	GHC34-8CR, GHC34-8B/Steel		Nickel
④	Screw	GHC34-G/Brass		Plain
⑤	Catch	Polyacetal (POM)		Black
⑤	Catch	Polyacetal (POM)		White (GHC34-8CR-W)

Item Code	Item Name	D_1	D_2	d	T	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-083-524	GHC34-8G	20	6.5	8	2	Max. 450	Max. 700	4, 5, 6	Max. 4 kg/2 pcs	36 g	40 pcs	600 pcs
170-083-508	GHC34-8B	21	8	10	3	Max. 450	Max. 700	4, 5, 6	Max. 4 kg/2 pcs	32 g	40 pcs	600 pcs
170-083-523	GHC34-8CR	20	6.5	8	2	Max. 450	Max. 700	4, 5, 6	Max. 4 kg/2 pcs	36 g	40 pcs	600 pcs
170-083-516	GHC34-8CR-W	20	6.5	8	2	Max. 450	Max. 700	4, 5, 6	Max. 4 kg/2 pcs	36 g	40 pcs	600 pcs

INSET GLASS DOOR HINGE

L=R STAINLESS 304 STEEL **GH34-0SS**

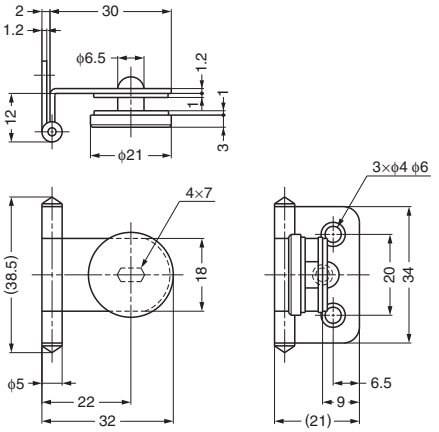


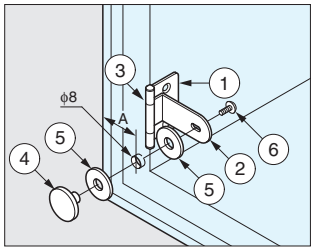
■Features

Hinge for glass/acrylic doors.

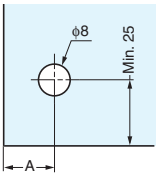
■Remarks

Recommended for use in pairs.





■Cut Out Dimensions



Glass Thickness	A
4	19
5	18
6	17

No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Plain
②	Arm	Stainless Steel (SUS304)	Plain
③	Shaft	Stainless Steel	Plain
④	Plate	Aluminium Alloy	Anodized
⑤	Washer	Polyvinyl Chloride Resin (PVC)	Clear
⑥	Screw	Stainless Steel	Plain

Item Code	Item Name	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-083-529	GH34-0SS	Max. 450	Max. 700	4, 5, 6	Max. 4 kg/2 pcs	20 g	150 pcs	900 pcs

HALF OVERLAY GLASS DOOR HINGE

L=R STAINLESS 304 STEEL **GH34-8SS**

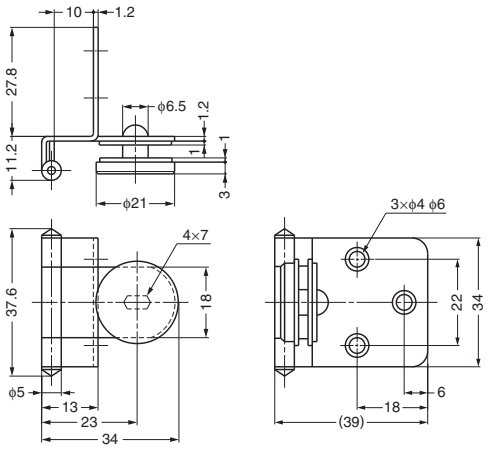


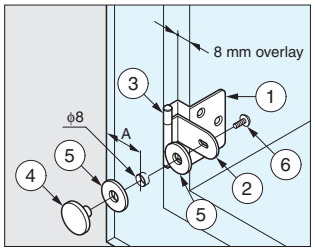
■Features

Hinge for glass/acrylic doors.

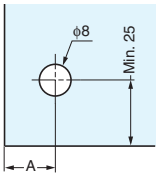
■Remarks

Recommended for use in pairs.





■Cut Out Dimensions



Glass Thickness	A	Overlay
4	19	8
5	18	7
6	17	6

No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Plain
②	Arm	Stainless Steel (SUS304)	Plain
③	Shaft	Stainless Steel	Plain
④	Plate	Aluminium Alloy	Anodized
⑤	Washer	Polyvinyl Chloride Resin (PVC)	Clear
⑥	Screw	Stainless Steel	Plain

Item Code	Item Name	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-083-530	GH34-8SS	Max. 450	Max. 700	4, 5, 6	Max. 4 kg/2 pcs	26 g	100 pcs	600 pcs

INSET GLASS DOOR HINGE

L=R

GH34-0



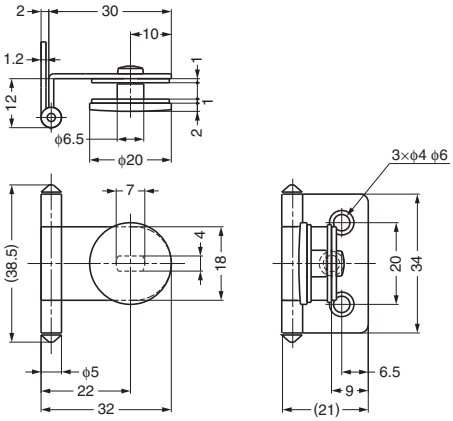
GH34-0CR GH34-0BL

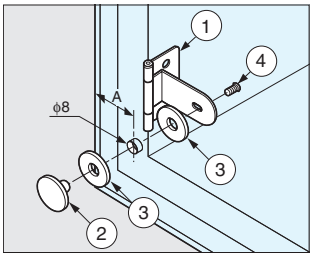
■Features

Hinge for glass/acrylic doors.

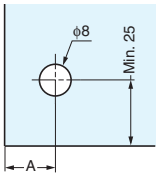
■Remarks

Recommended for use in pairs.





■Cut Out Dimensions



Glass Thickness	A
4	19
5	18
6	17

No.	Part Name	Material	Finish/Colour
①	Body	Steel	Chrome, Paint/Black
②	Plate	Brass	Chrome, Paint/Black
③	Washer	Polyvinyl Chloride Resin (PVC)	Clear
④	Screw	Steel	Nickel, Paint/Black

Item Code	Item Name	Finish	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-083-513	GH34-0CR	Chrome	Max. 450	Max. 700	4, 5, 6	Max. 4 kg/2 pcs	25 g	150 pcs	900 pcs
170-025-831	GH34-0BL	Paint/Black	Max. 450	Max. 700	4, 5, 6	Max. 4 kg/2 pcs	25 g	150 pcs	900 pcs

HALF OVERLAY GLASS DOOR HINGE

L=R

GH34-8



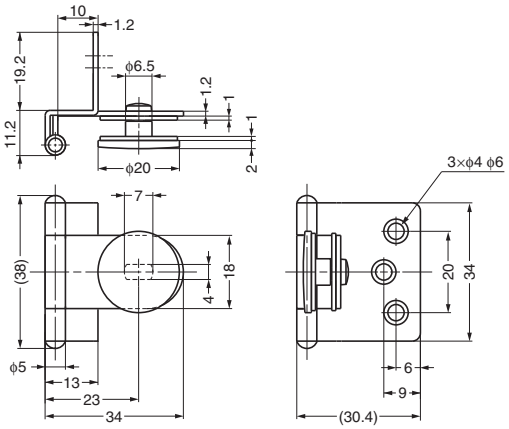
GH34-8CR GH34-8BL

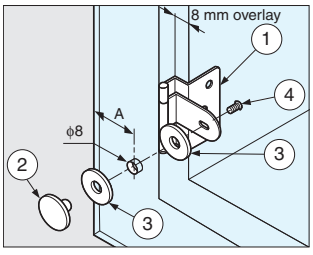
■Features

Hinge for glass/acrylic doors.

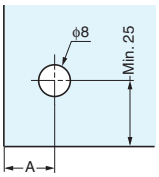
■Remarks

Recommended for use in pairs.





■Cut Out Dimensions



Glass Thickness	A	Overlay
4	19	8
5	18	7
6	17	6

No.	Part Name	Material	Finish/Colour
①	Body	Steel	Chrome, Paint/Black
②	Plate	Brass	Chrome, Paint/Black
③	Washer	Polyvinyl Chloride Resin (PVC)	Clear
④	Screw	Steel	Nickel, Paint/Black

Item Code	Item Name	Finish	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-083-528	GH34-8CR	Chrome	Max. 450	Max. 700	4, 5, 6	Max. 4 kg/2 pcs	30 g	50 pcs	500 pcs
170-025-832	GH34-8BL	Paint/Black	Max. 450	Max. 700	4, 5, 6	Max. 4 kg/2 pcs	30 g	50 pcs	500 pcs

INSET GLASS DOOR HINGE

L=R

GH34-0CR-K

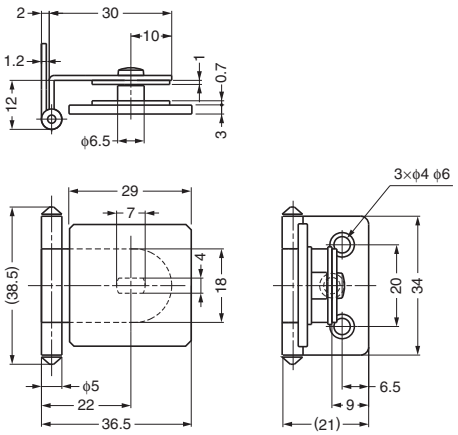


■Features

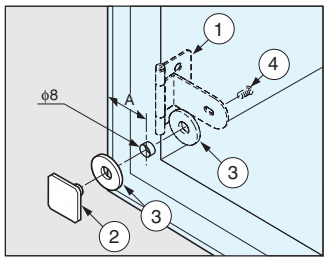
Hinge for glass/acrylic doors.

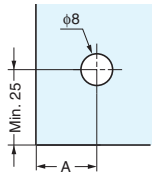
■Remarks

Recommended for use in pairs.



■Cut Out Dimensions





Glass Thickness	A
4	19
5	18
6	17

No.	Part Name	Material	Finish/Colour
①	Body	Steel	Chrome
②	Plate	Zinc Alloy (ZDC)	Chrome
③	Washer	Polyvinyl Chloride Resin (PVC)	Clear
④	Screw	Steel	Nickel

Item Code	Item Name	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-019-481	GH34-0CR-K	Max. 450	Max. 700	4, 5, 6	Max. 4 kg/2 pcs	34 g	150 pcs	900 pcs

HALF OVERLAY GLASS DOOR HINGE

L=R

GH34-8CR-K

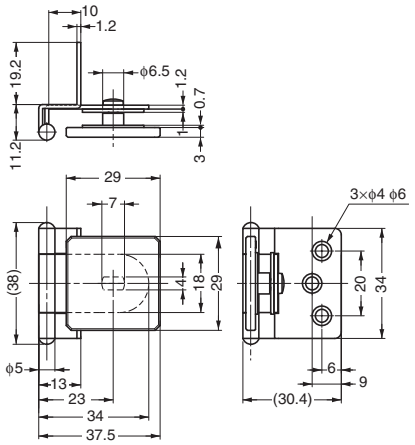


■Features

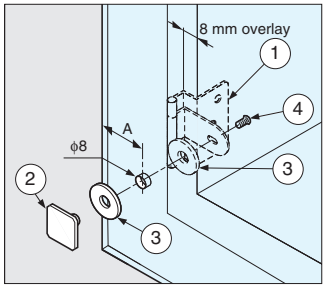
Hinge for glass/acrylic doors.

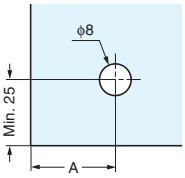
■Remarks

Recommended for use in pairs.



■Cut Out Dimensions





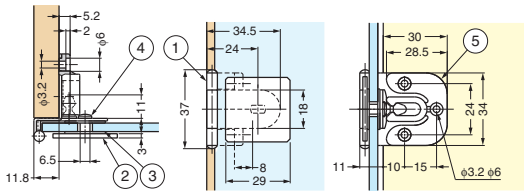
Glass Thickness	A	Overlay
4	19	8
5	18	7
6	17	6

No.	Part Name	Material	Finish/Colour
①	Body	Steel	Chrome
②	Plate	Zinc Alloy (ZDC)	Chrome
③	Washer	Polyvinyl Chloride Resin (PVC)	Clear
④	Screw	Steel	Nickel

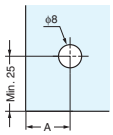
Item Code	Item Name	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-019-482	GH34-8CR-K	Max. 450	Max. 700	4, 5, 6	Max. 4 kg/2 pcs	37 g	50 pcs	500 pcs

HALF OVERLAY GLASS DOOR HINGE (W/ CATCH) L=R GHC34-8CR-K





■Cut Out Dimensions



Glass Thickness	A	Overlay
4	19	7
5	18	6
6	17	5

■Features

Hinge for glass/acrylic doors.

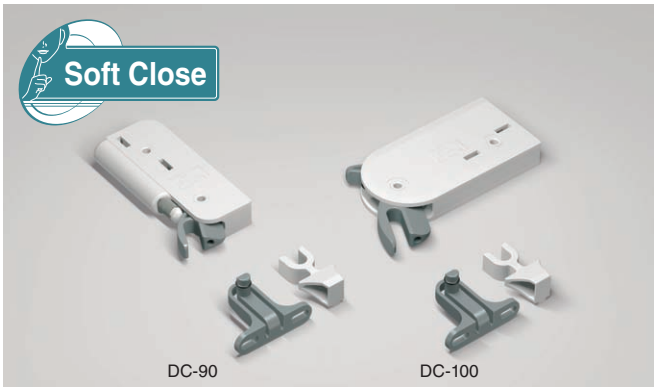
■Remarks

Recommended for use in pairs.

No.	Part Name	Material	Finish/ Colour
①	Body	Steel	Chrome
②	Plate	Zinc Alloy (ZDC)	Chrome
③	Washer	Polyvinyl Chloride Resin (PVC)	Clear
④	Screw	Steel	Nickel
⑤	Catch	Polyacetal (POM)	Black

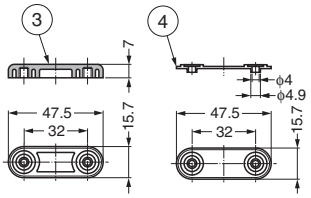
Item Code	Item Name	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-019-480	GHC34-8CR-K	Max. 450	Max. 700	4, 5, 6	Max. 4 kg/2 pcs	50 g	40 pcs	600 pcs

DAMPER CATCH L=R STEEL DC



Face plate for glass door





■Features

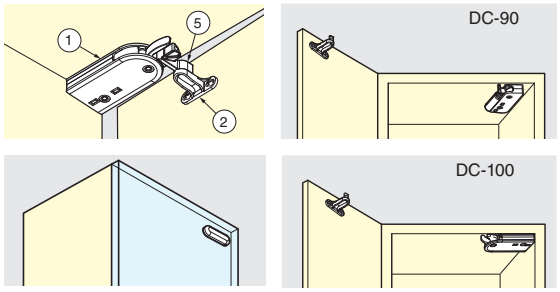
- Keeps cabinet doors from slamming shut.
- Holds the door in closed position.
- Available for glass and wood doors.
- Separate models for wood and glass doors.
- Non-handed.

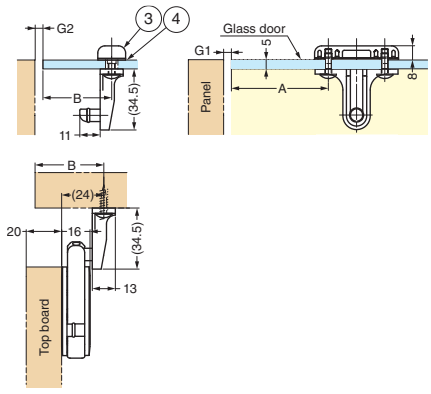
■Parts included

- Truss head tapping screw 4×30
- Truss head tapping screw 4×16
- Truss countersunk head screw 4×12
- Trigger Jig
- Face plate (Only included in DC-90G, DC-100G)

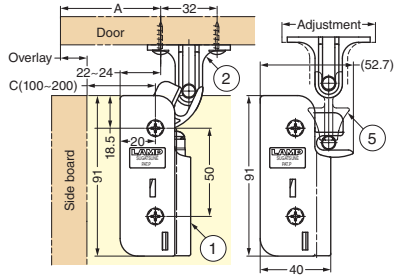
Video Link

■ Installation



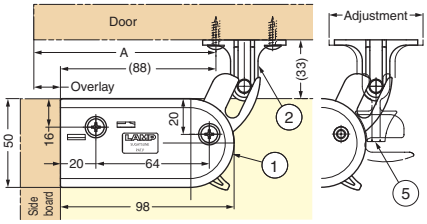


■DC-90



Installation Position	A	B
Inset Door	C-G1+3	24-G2
Overlay Door	C+Overlay+3	Overlay+24

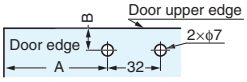
■DC-100



Installation Position	A	B
Inset Door	88-G1	24-G2
Overlay Door	Overlay+88	Overlay+24

G1 is the gap between the door edge and the side board. G2 is the gap between the edge of the door and the top board.

■Cut Out Dimensions for Glass Door



No.	Parts Name	Material	Finish/Colour
①	Body	Polyacetal (POM) /PBT	Dark Grey/Light Grey
②	Counter Plate	Polyacetal (POM)	Dark Grey
③	Face Plate	Zinc Alloy (ZDC)	Chrome
④	Spacer	ABS	Black
⑤	Jig	PBT	Light Grey

Item Code	Item Name	Type	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
140-021-698	DC-90G	Glass Door	450	600	5	4 kg	91 g	25 pcs	200 pcs
140-021-700	DC-100G	Glass Door	600	800	5	7 kg	116 g	25 pcs	200 pcs
140-021-697	DC-90	Wood Door	450	600	–	4 kg	69 g	25 pcs	200 pcs
140-021-699	DC-100	Wood Door	600	800	–	7 kg	92 g	25 pcs	200 pcs

GLASS DOOR HINGE

L=R STAINLESS 304 STEEL STEEL

XL-GH01-600



■Features

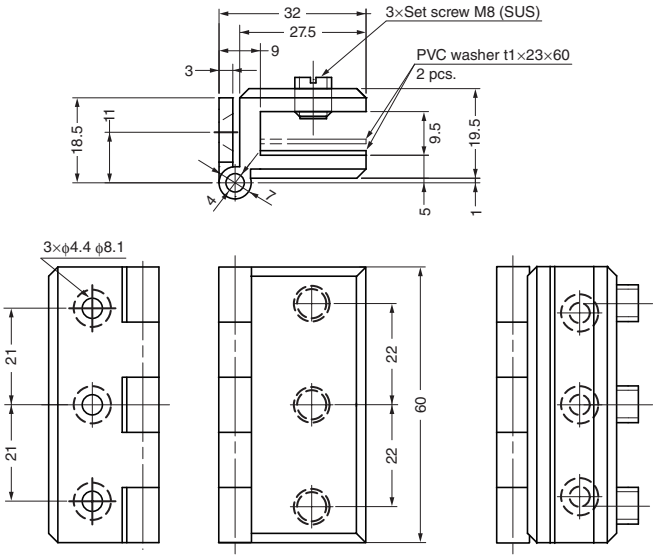
Pre-drilling on glass/acrylic not required.

■Remarks

Use 2 washers for 4 mm door thickness.

■Parts Included

Countersunk head wood screw 3.5×20



Item Code	Item Name	Material	Finish	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-080-501	XL-GH01-600	Stainless Steel (SCS13)	Mirror	Max. 450	Max. 1300	4, 5, 6, 8	Max. 11 kg/2 pcs	188 g	10 pcs	50 pcs

※SCS13 is equivalent of SUS304.

GLASS DOOR HINGE

L=R STAINLESS 304 STEEL STEEL

XL-GH01-250



■Features

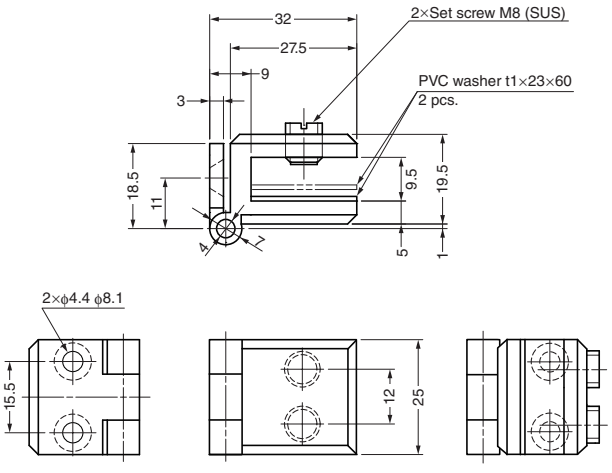
Pre-drilling on glass/acrylic not required.

■Remarks

Use 2 washers for 4 mm door thickness.

■Parts Included

Countersunk head wood screw 3.5×20



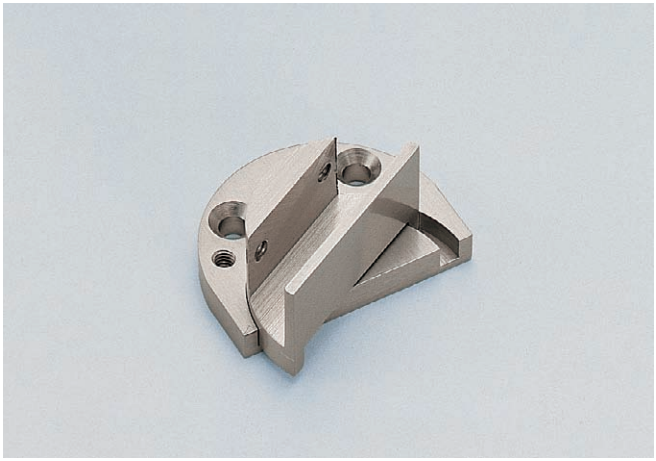
Item Code	Item Name	Material	Finish	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-080-500	XL-GH01-250	Stainless Steel (SCS13)	Mirror	Max. 400	Max. 600	4, 5, 6, 8	Max. 4.8 kg/2 pcs	60 g	10 pcs	100 pcs

※SCS13 is equivalent of SUS304.

INSET GLASS DOOR PIVOT HINGE

L=R

GP-40

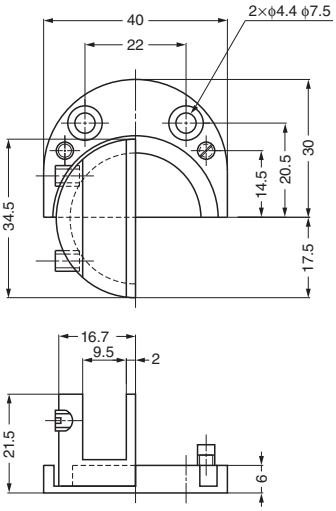


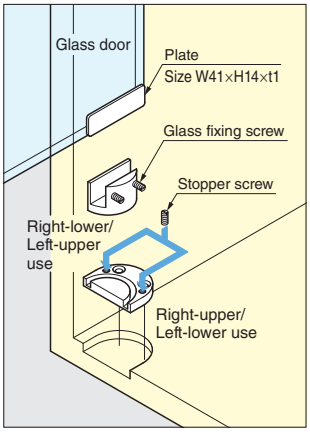
■Features

Pre-drilling on glass/acrylic not required.

■Remarks

Recommended for use in pairs.



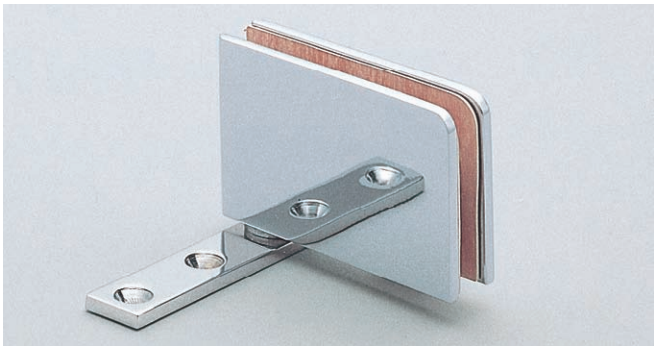


Item Code	Item Name	Material	Finish	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-083-506	GP-40	Brass	Satin Nickel	Max. 450	Max. 700	3, 4, 5, 6, 8	Max. 4 kg/2 pcs	76 g	35 pcs	350 pcs

INSET GLASS DOOR PIVOT HINGE

L=R

GH-PSL40

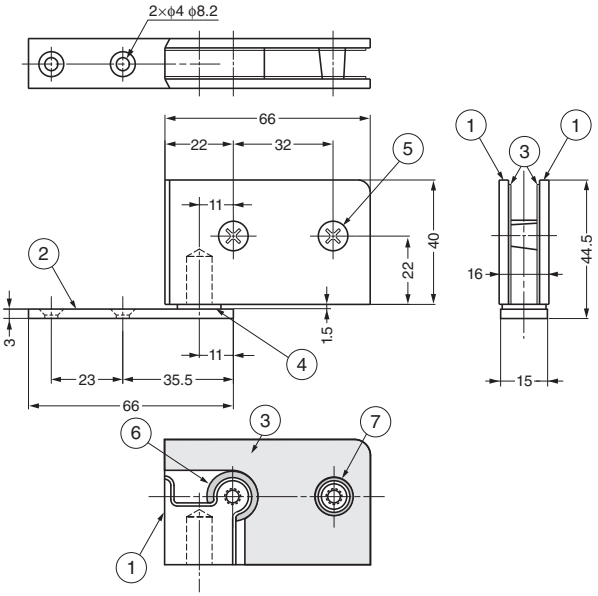


■Features

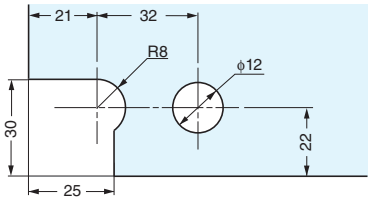
Rotates 360˚.

■Remarks

Sold in pairs.



■Cut Out Dimensions

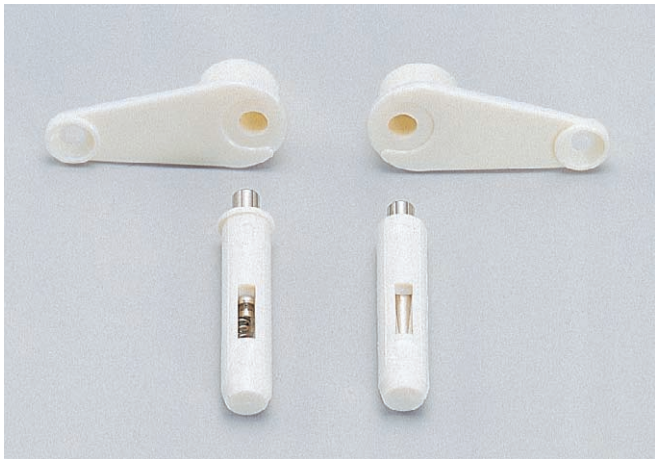


No.	Part Name	Material	Finish/Colour
①	Body	Brass	Chrome
②	Plate	Brass	Chrome
③	Spacer	Polyvinyl Chloride Resin (PVC)	Clear
④	Washer	Polyamide (PA)	White
⑤	Screw	Brass	Chrome
⑥	Gasket	Polyvinyl Chloride Resin (PVC)	Clear
⑦	Gasket	Polyvinyl Chloride Resin (PVC)	Clear

Item Code	Item Name	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-080-038	GH-PSL40	Max. 650	Max. 2000	8	Max. 20 kg/set	400 g	5 sets	40 set

INSET DOOR PIVOT HINGE

L=R PV-30

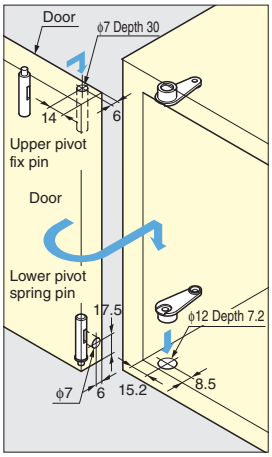


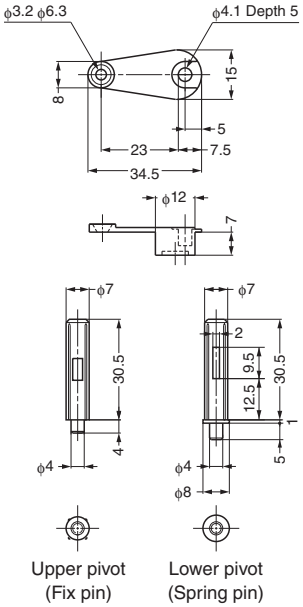
■Features

Easy installation for lower pivot spring pin.

■Remarks

Sold in pairs.





Item Code	Item Name	Material	Finish/Colour	Door Width	Door Height	Door Thickness	Door Weight	Weight	Box	Carton
170-090-060	PV-30	Polyamide (PA), Steel (Pin)	White/Nickel	Max. 450	Max. 700	Max. 21	Max. 2.6 kg/set	9 g	100 sets	1000 sets

INSET DOOR PIVOT HINGE (ADJUSTABLE)

L=R PH084N



■Features

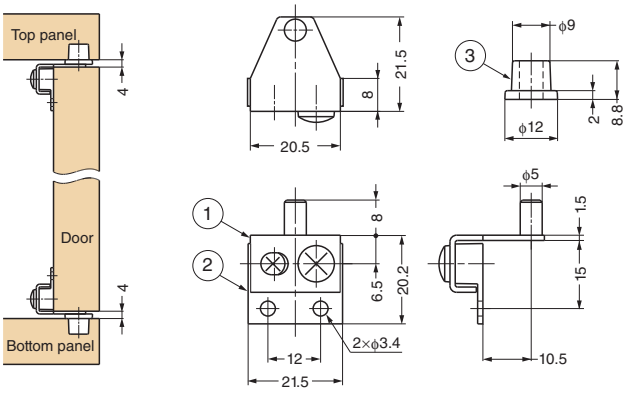
Function to adjust horizontally and vertically.

■Remarks

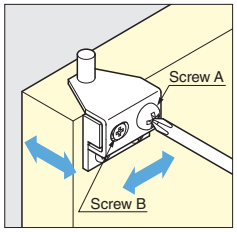
2 pcs required for 1 door.

■Adjustment Range

Depth : 2 mm / Horizontal : 2 mm



■How to Adjust



After loosening screw A, adjust by screwing B in the direction of the arrows.
Tighten screw A at final position.

No.	Part Name	Material	Finish/Colour
①	Body	Steel	Nickel
②	Hinge Plate	Zinc Alloy (ZDC)	Plain
③	Support	Polyamide (PA)	Black

Item Code	Item Name	Door Width	Door Height	Door Thickness	Door Weight	Weight	Box	Carton
170-090-621	PH084N	Max. 300	Max. 700	15～19	Max. 2 kg/2 pcs	19 g	500 pcs	1000 pcs

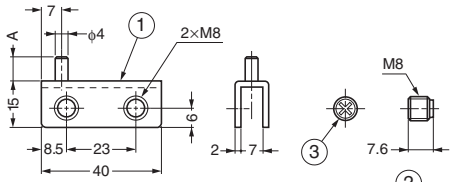
INSET GLASS DOOR PIVOT HINGE GPH



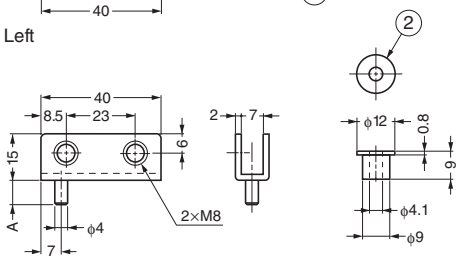
GPH-41HR/HL-G shown.

■Remarks

- Please use in pairs. Can not be used separately.
  Left: For left-lower/right-upper
  Right: For right-lower/left-upper
- GPH-40R-G and GPH-40L-G should be used with the socket PHB4 (below).



Left



Right

No.	Part Name	Material	Finish/Colour
①	Hinge	Steel	Paint/Black
②	Support	Polypropylene (PP)	Black
③	Screw	Steel	Black

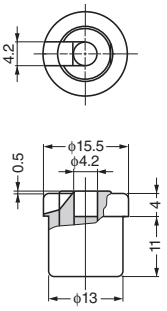
Item Code	Item Name	Type	A	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-080-032	GPH-40R-G	Right	4	Max. 450	Max. 700	4, 5	Max. 4 kg/pair	25 g	100 pcs	600 pcs
170-080-033	GPH-40L-G	Left	4	Max. 450	Max. 700	4, 5		25 g	100 pcs	600 pcs
170-080-030	GPH-41HR-G	Right	9	Max. 450	Max. 700	4, 5	Max. 4 kg/pair	25.5 g	100 pcs	1800 pcs
170-080-031	GPH-41HL-G	Left	9	Max. 450	Max. 700	4, 5		25.5 g	100 pcs	1800 pcs

SOCKET FOR GPH40 PIVOT HINGE L=R PHB4

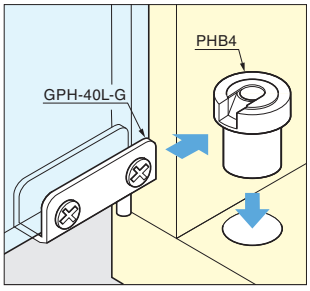


■Features

- Bottom socket for GHP-40 glass door hinge.
- Use GPH-41 hinge on upper side.



■Installation



Item Code	Item Name	Material	Colour	Weight	Carton
170-083-509	PHB4	Polyamide (PA)	Black	5 g	400 pcs



GLASS DOOR HINGE

STAINLESS 316 STEEL
STAINLESS

ZL-1703

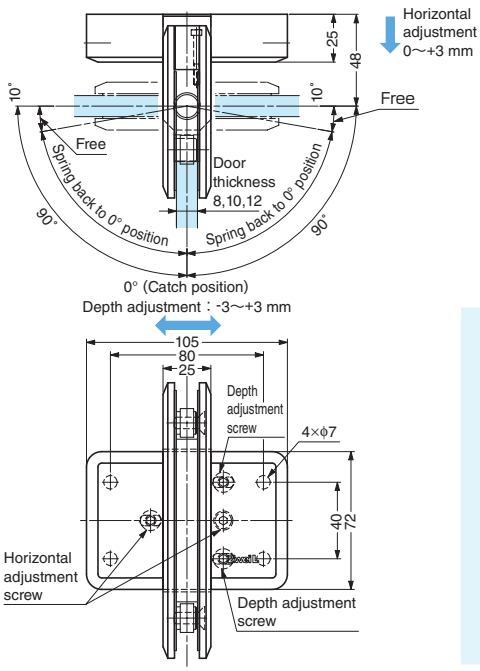


■Features

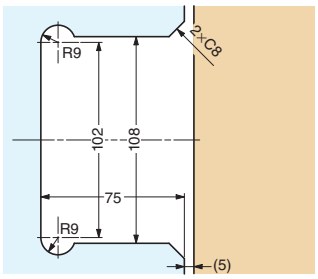
- For glass doors that open either way.
- Superior finish of Mirror/Satin.
- Ideal for shower booth applications.
- Use in pairs.

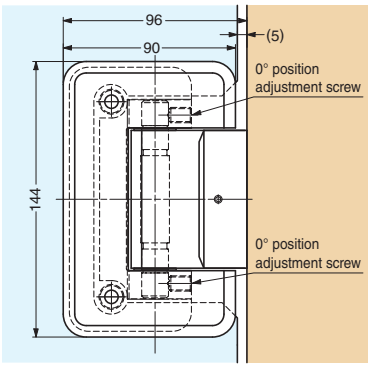
■Parts Included

- Spacer × 6 pcs
  (Use 6 pcs for 8 mm/4 pcs for 10 mm/2 pcs for 12 mm.)
- Round head wood screw 6.2×56 (SUS) 4 pcs
- Plug MG-10×50P 4 pcs
- Allen key 4 1 pc
- Allen key 2.5 1 pc



■Cut Out Dimensions





Item Code	Item Name	Material	Finish	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box
170-080-081	ZL-1703	Stainless Steel (SUS316)	Zwei L Finish	Max. 1000	Max. 2500	8, 10, 12	Max. 65 kg/2 pcs	2,656 g	1 pc

GLASS DOOR HINGE

L=R STAINLESS 316 STEEL STAINLESS

ZL-1702



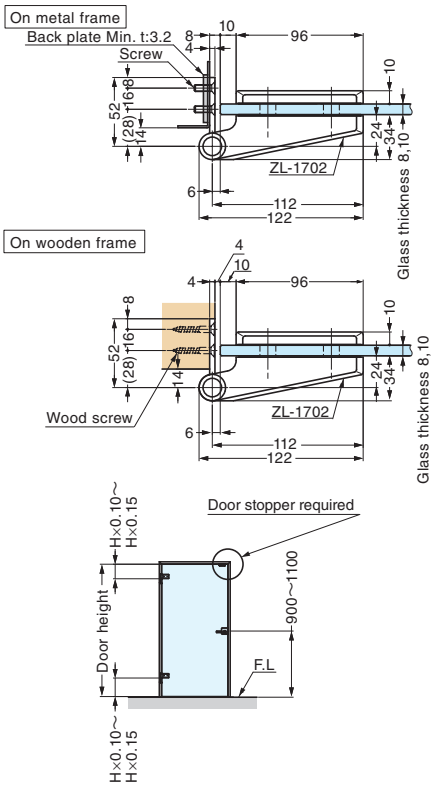
■Features

- Superior finish of Mirror/Satin.
- Use in pairs.

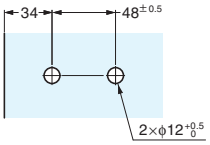
■Parts Included

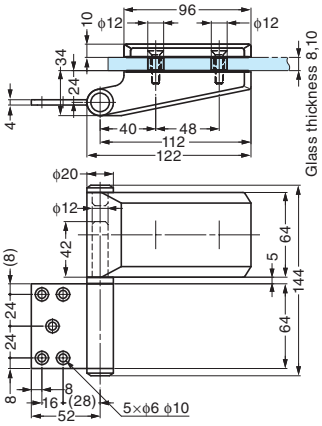
- Countersunk head screw 4.8×32
- Screw M5×16
- Allen key

■Installation



■Cut Out Dimensions







Case latch ZL-1601
(P.716)







Lever handles ZL-1101, ZL-1102, ZL-1103
(P.714～715)

Item Code	Item Name	Material	Finish	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box
170-183-400	ZL-1702	Stainless Steel (SUS316)	Zwei L Finish	Max. 900	Max. 2500	8, 10	Max. 50 kg/2 pcs	806 g	2 pcs

GLASS DOOR GRAVITY HINGE

XL-GH02-120



XL-GH02-120R

Back Side View



XL-GH02-120L

■Features

- Stainless steel construction suitable for shower doors.
- Glass hinge with self-closing features.
- Door close automatically up to opening angle 170˚.
- Door stay open beyond 170˚.
- Door moves up Max. 5 mm at opening angle 90˚ or Max. 10 mm at 170˚.

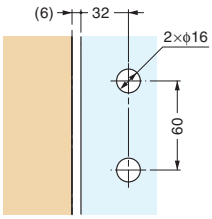
■Remarks

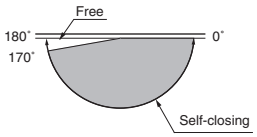
Sold in pairs.

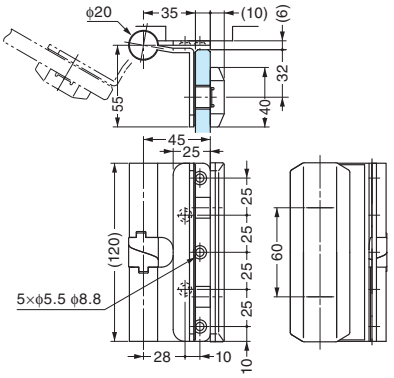
■Parts Included

- Hexagon socket countersunk head screw M6×14 (SUS)
- Screw M5×16 (SUS)

■Cut Out Dimensions







Left-hand opening shown.

Item Code	Item Name	Type	Material	Finish	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-180-850	XL-GH02-120R	Right	Stainless Steel (SUS304)	Mirror	Max. 750	Max. 2000	10, 12	Max. 45 kg/pair	1,254 g	1 pair	5 pairs
170-180-851	XL-GH02-120L	Left	Stainless Steel (SUS304)	Mirror	Max. 750	Max. 2000	10, 12	Max. 45 kg/pair	1,254 g	1 pair	5 pairs

GLASS DOOR GRAVITY HINGE

XL-GH02F-120



XL-GH02F-120R

Back Side View



XL-GH02F-120L

■Features

- Stainless steel construction suitable for shower doors.
- Glass hinge with self-closing features.
- Self-close range can be changed and door will close automatically at opening angle 20˚ or 70˚.
- Door moves up Max. 1.5 mm at opening angle 20˚ or Max. 5 mm at 70˚.

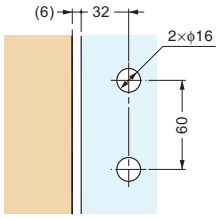
■Remarks

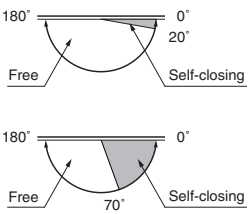
Sold in pairs.

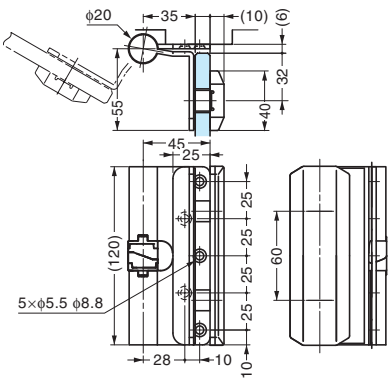
■Parts Included

- Hexagon socket countersunk head screw M6×14 (SUS)
- Screw M5×16 (SUS)

■Cut Out Dimensions







Left-hand opening shown.

Item Code	Item Name	Type	Material	Finish	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-021-703	XL-GH02F-120R	Right	Stainless Steel (SUS304)	Mirror	Max. 750	Max. 2000	10, 12	Max. 45 kg/pair	—	1 pair	5 pairs
170-021-702	XL-GH02F-120L	Left	Stainless Steel (SUS304)	Mirror	Max. 750	Max. 2000	10, 12	Max. 45 kg/pair	—	1 pair	5 pairs

GLASS DOOR GRAVITY HINGE

STAINLESS 304 STEEL

XL-GH05-120



XL-GH05-120R

Back Side View



■Features

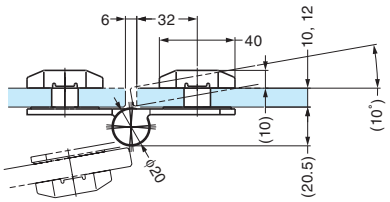
- Glass hinge with self-closing features.
- Stainless steel construction suitable for shower doors.
- Door close automatically up to opening angle 170˚.
- Door stay open beyond 170˚.
- Door moves up Max. 5 mm at opening angle 90˚ or Max. 10 mm at 170˚.

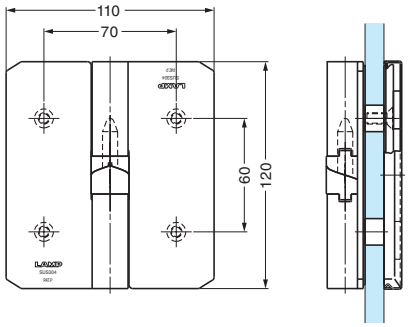
■Remarks

Sold in pairs.

■Parts Included

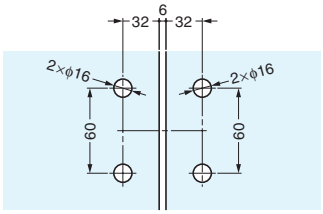
Hexagon socket countersunk head screw M6×14 (SUS)

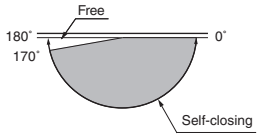




Left-hand opening shown.

■Cut Out Dimensions





Item Code	Item Name	Type	Material	Finish	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-016-523	XL-GH05-120R	Right	Stainless Steel (SUS304)	Mirror	Max. 750	Max. 2000	10, 12	Max. 45 kg/pair	1,624 g	1 pair	5 pairs
170-016-524	XL-GH05-120L	Left	Stainless Steel (SUS304)	Mirror	Max. 750	Max. 2000	10, 12	Max. 45 kg/pair	1,624 g	1 pair	5 pairs

GLASS DOOR GRAVITY HINGE

STAINLESS 304 STEEL

XL-GH05F-120



XL-GH05F-120R

Back Side View



■Features

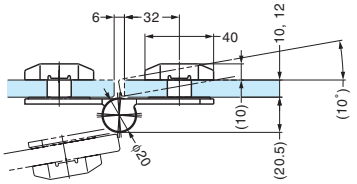
- Glass hinge with self-closing features.
- Stainless steel construction suitable for shower doors.
- Self-close range can be changed and door will self close at opening angle 20˚ or 70˚.
- Door moves up Max. 1.5 mm at opening angle 20˚ or Max. 5 mm at 70˚.

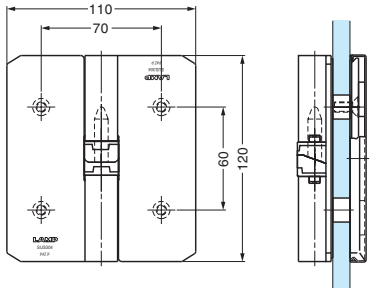
■Remarks

Sold in pairs.

■Parts Included

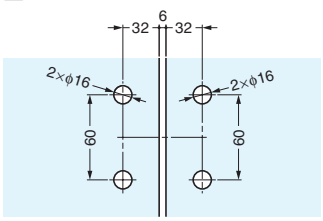
Hexagon socket countersunk head screw M6×14 (SUS)

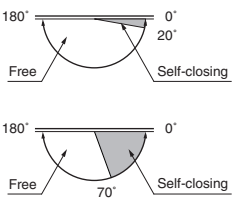




Left-hand opening shown.

■Cut Out Dimensions





Item Code	Item Name	Type	Material	Finish	Door Width	Door Height	Glass Thickness	Door Weight	Weight	Box	Carton
170-021-705	XL-GH05F-120R	Right	Stainless Steel (SUS304)	Mirror	Max. 750	Max. 2000	10, 12	Max. 45 kg/pair	—	1 pair	5 pairs
170-021-704	XL-GH05F-120L	Left	Stainless Steel (SUS304)	Mirror	Max. 750	Max. 2000	10, 12	Max. 45 kg/pair	—	1 pair	5 pairs

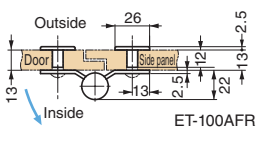
GRAVITY HINGE

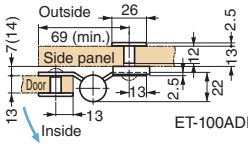
STAINLESS 304 STEEL

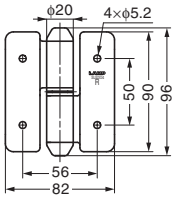
ET-100A



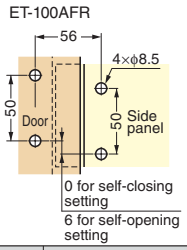


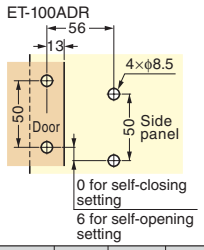






■Cut Out Dimensions (At closed position)





■Features

- Inward opening.
- Self-opening/closing with gravity mechanism.
- Able to choose the setting of the hinge for self-opening or self-closing by changing the direction of the bushing.

■Remarks

3 pcs in 1 set required for 1 door.

■Parts Included

Spacer

■Option

Spacer, ET-100-S13 to double the gap between door and side panel.

■Recommended Screw

Hexagon top bolt

Type	Spacer	Door Thickness		Side Panel Thickness		
		13	16	13	16	20
ET-100AF	—	M5×10	M5×12	M5×10	M5×12	M5×16
ET-100AD	Parts Included	M5×10	M5×12	M5×14	M5×16	M5×20
	Option (ET-100-S13)	M5×10	M5×12	M5×20	M5×25	M5×25

■Body

Item Code	Item Name	Type	Material	Finish	Weight	Box
170-099-066	ET-100AFR	Right	Stainless Steel (SUS304)	Satin	955 g	10 sets
170-099-067	ET-100AFL	Left	Stainless Steel (SUS304)	Satin	955 g	10 sets
170-099-905	ET-100ADR	Right	Stainless Steel (SUS304)	Satin	980 g	10 sets
170-099-048	ET-100ADL	Left	Stainless Steel (SUS304)	Satin	980 g	10 sets

■Spacer for ET-100AD (Sold Separately)

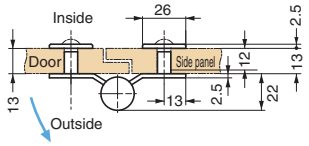
Item Code	Item Name	Weight	Box
170-020-997	ET-100-S13	16 g	900 pcs

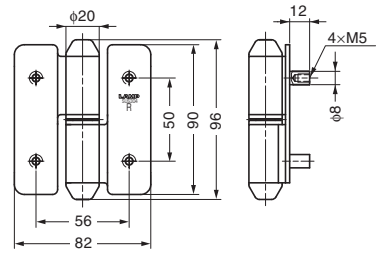
GRAVITY HINGE

STAINLESS 304 STEEL

ET-100BF

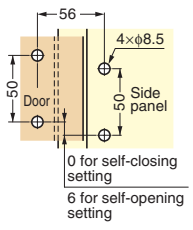






■Cut Out Dimensions

(At closed position)



■Features

- Outward opening.
- Self-opening/closing with gravity mechanism.
- Applicable for flat door application.
- Able to choose the setting of the hinge for self-opening or self-closing by changing the direction of the bushing.

■Remarks

3 pcs in 1 set required for 1 door.

■Recommended Screw

Hexagon top bolt

Door Thickness		Side Panel Thickness		
13	16	13	16	20
M5×10	M5×12	M5×10	M5×12	M5×16

Item Code	Item Name	Type	Material	Finish	Weight	Box
170-099-906	ET-100BFR	Right	Stainless Steel (SUS304)	Satin	956 g	10 sets
170-099-049	ET-100BFL	Left	Stainless Steel (SUS304)	Satin	956 g	10 sets

GRAVITY HINGE

STAINLESS 304 STEEL

ET-100CD


ET-100CDR


Spacer (Option)

■Features

- Outward opening.
- Self opening/closing with gravity mechanism.
- Applicable for overlapped door application.

■Remarks

3 pcs in 1 set required for 1 door.

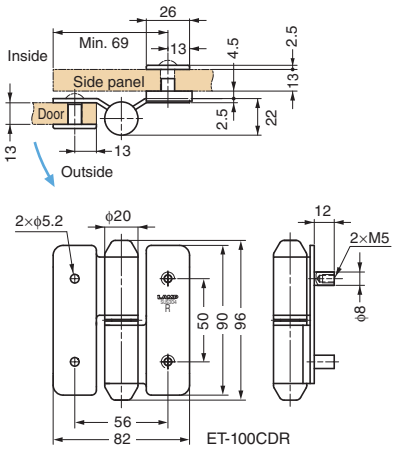
■Parts Included

Spacer

■Recommended Screw

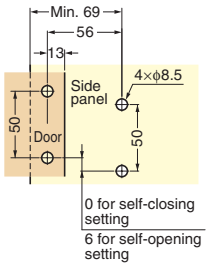
Hexagon top bolt

Door Thickness		Side Panel Thickness		
13	16	13	16	20
M5×10	M5×12	M5×14	M5×16	M5×20



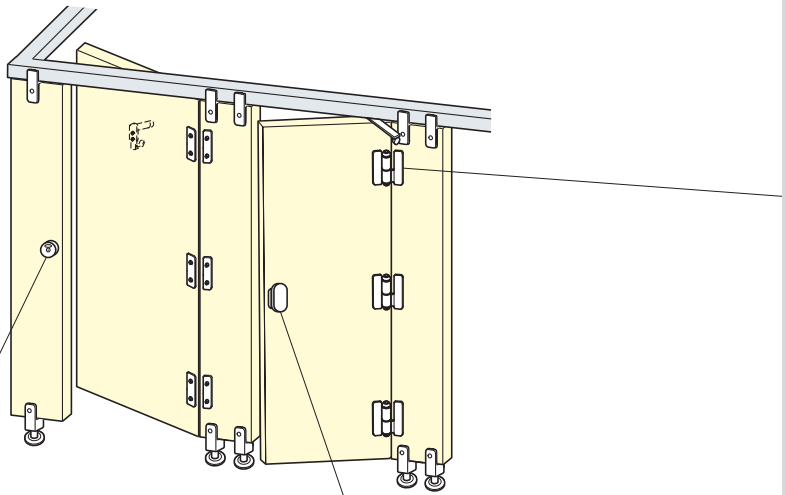
■Cut Out Dimensions

(At closed position)



Item Code	Item Name	Type	Material	Finish	Weight	Box
170-099-907	ET-100CDR	Right	Stainless Steel (SUS304)	Satin	980 g	10 sets
170-099-050	ET-100CDL	Left	Stainless Steel (SUS304)	Satin	980 g	10 sets

APPLICATION



■Hinge


ET-100A (P.466)


ET-100BF (P.466)


ET-100CD (above)

■Latch

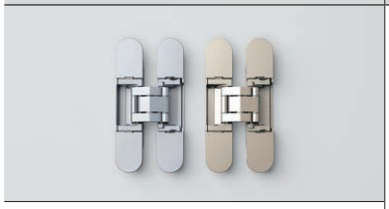
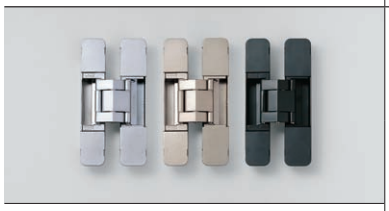
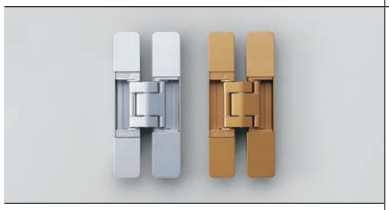
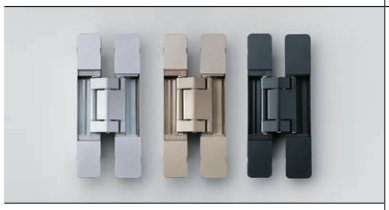
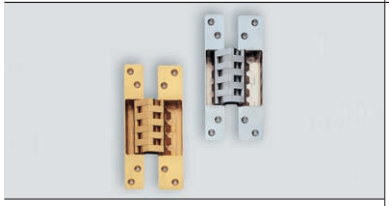
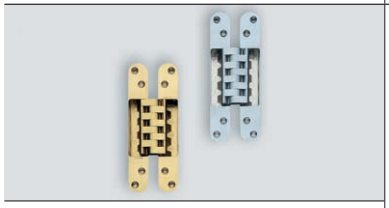
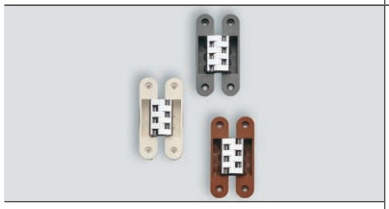

ET-70 (P.305～306)


ET-125T (P.305)

■Knob


DW-50N (P.79)

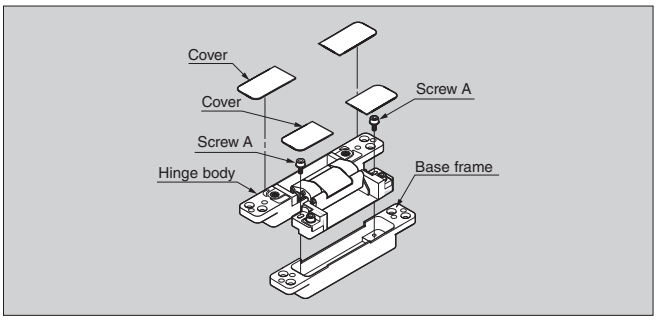
■HES Concealed Hinge Series Digest

Picture, Item Name	Door Width	Door Thickness	Door Weight	3-WAY Adjustment Function	Temporary Holding Feature	Page
 HES3D-90	Please Contact Local Representatives.	Min. 23	Please Contact Local Representatives.	○	×	P.470
 HES3D-120	Max. 900	Min. 29	Max. 30 kg / 2 pcs Max. 40 kg / 3 pcs	○	○	P.471
 HES3D-160	Max. 900	Min. 35	Max. 45 kg / 2 pcs Max. 60 kg / 3 pcs	○	○	P.472
 HES3D-E190	Max. 900	Min. 38	Max. 100 kg / 2 pcs Max. 125 kg / 3 pcs	○	○	P.473
 HES-3038BK	Max. 900	Min. 36	Max. 45 kg / 3 pcs	×	×	P.476
 HES-3030BR	Max. 900	Min. 36	Max. 50 kg / 3 pcs	×	×	P.476
 HES-3030PR	Max. 900	Min. 36	Max. 25 kg / 3 pcs	×	×	P.477

HES CONCEALED HINGE SERIES







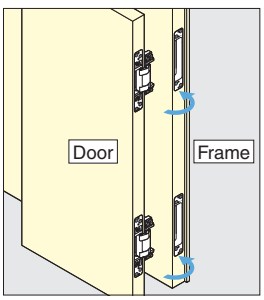
■Features

- ●The hinges are completely hidden when the door is closed.
- ●3-WAY adjustment function allows vertical, horizontal, and depth adjustment after hinge installed.
- ●Can be used together with a door closer or door damper.
  - ・LAPCON DOOR DAMPER LDD-S (P.720-721)
  - ・LAPCON DOOR DAMPER LDD-V (P.718)
  - ・LAPCON DOOR CLOSER LDC-N2 (P.722-724)

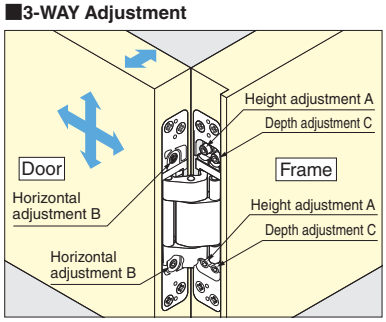
■For Easy Installation

1. Separate parts as shown in picture “a”.
2. Screw on the hinge body to door, and hinge bracket to door frame.
3. As shown in picture “b”, insert hinge body straight into hinge bracket. Bracket will temporarily hold the body for easy installation.
4. Use “screw A” to fix body on bracket.
5. Adjust horizontally by turning “screw B”.
6. Loosen “screw A” for vertical adjustment. Tighten “screw A” after vertical adjustment completed.
7. For depth adjustment, loosen “screw C” (one turn). Tighten “screw C” after completed.
8. Snap on plastic covers after all above completed.

■Installation

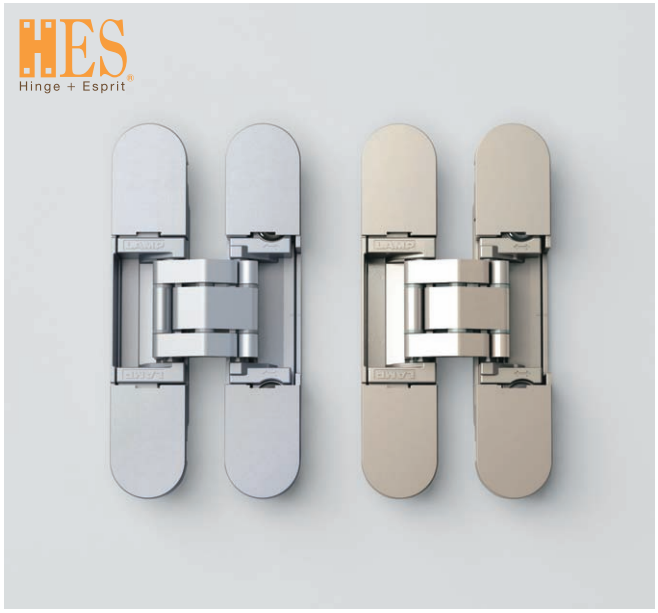


■3-WAY Adjustment



3-WAY ADJUSTABLE CONCEALED HINGE

L=R STEEL **HES3D-90**

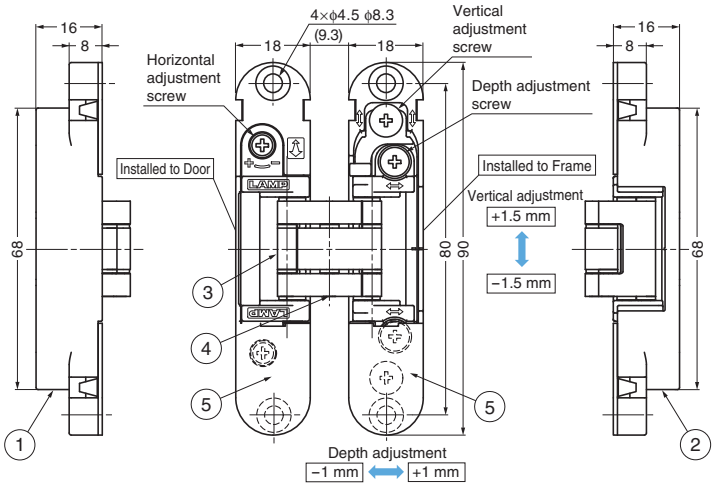


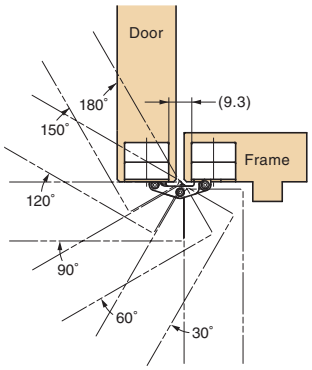
■Features

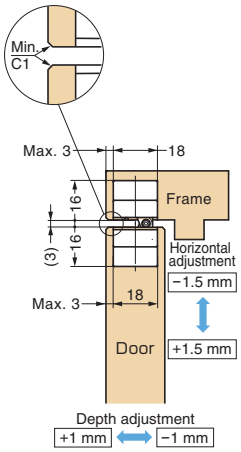
- 3-way adjustment function allows vertical, horizontal, and depth adjustment after hinge installed.
- Cover hides all screw heads for clean appearance.
- Special colour is possible to make as made to order. For further details, please contact local representatives.

■Parts Included

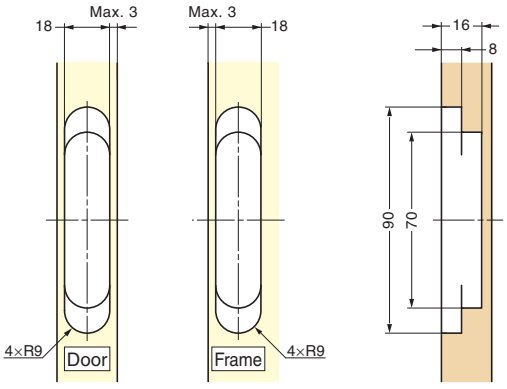
Countersunk head screw 4×20 (4 pcs./hinge)







■Cut Out Dimensions



No.	Part Name	Material	Finish	
			DC	DN
①	Body	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel
②	Base Frame	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel
③	Arm	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel
④	Shaft	Stainless Steel	—	—
⑤	Cover	ABS	Satin Chrome	Satin Nickel

Item Code	Item Name	Colour	Door Thickness	Opening Angle	Weight	Box	Carton
170-029-221	HES3D-90DC	Silver	Min. 23	180°	198 g	2 pcs	48 pcs
170-029-222	HES3D-90DN	Champagne Gold	Min. 23	180°	198 g	2 pcs	48 pcs

3-WAY ADJUSTABLE CONCEALED HINGE

L=R STEEL HES3D-120



■Features

- 3-WAY adjustment function allows vertical, horizontal, and depth adjustment after hinge installed.
- Easy installation : Temporary door holding feature.
- Successfully passed for the 300,000 open/close private cycle test.
- Cover hides all screw heads for clean appearance.
- Order-made colour available. For further details, please contact local representatives.
- Door weight : Max. 30 kg /2 pcs, 40 kg /3 pcs
- Door thickness : Min. 29 mm
- Door width : Max. 900 mm
- Door height : 2400 mm recommened. Taller doors are possible if the weight is within specification.

■Remarks

Recommend to use with bellow door closer/ damper as bellow.

・LAPCON DOOR DAMPER LDD-S (P.720-721)

・LAPCON DOOR DAMPER LDD-V (P.718)

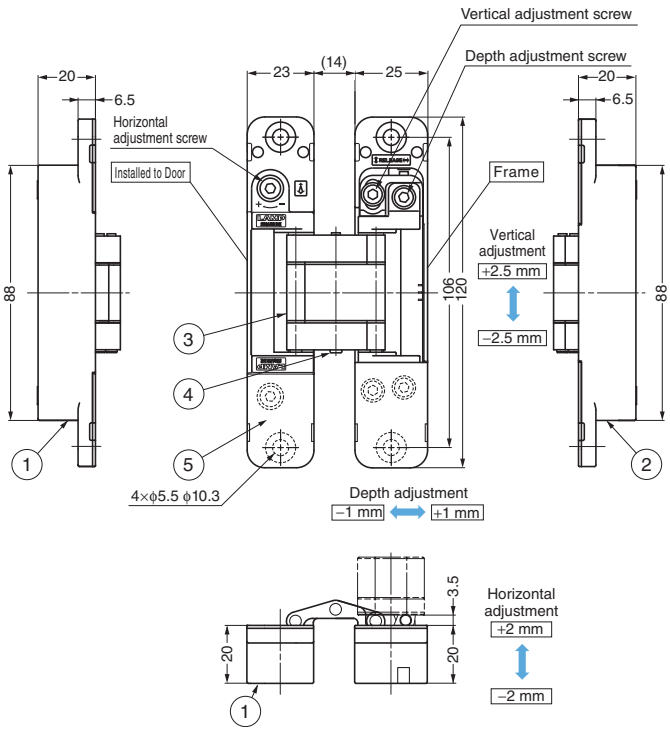
Video Link

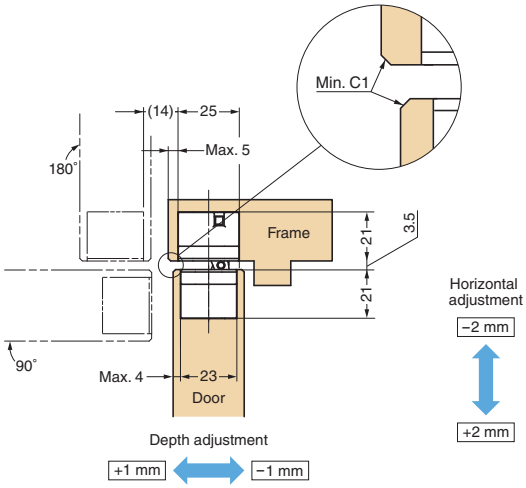
■Parts Included

- Countersunk head tapping screw 5×20
- Hex. wrench (a nominal diameter 3)

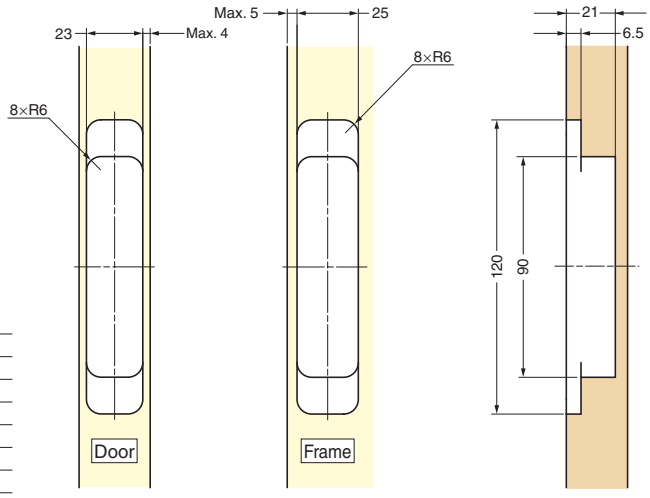
■Sold Separately

- Installation template HES3D-120-TMP (P.474)
- Metal door bracket 120BKT (P.475)





■Cut Out Dimensions



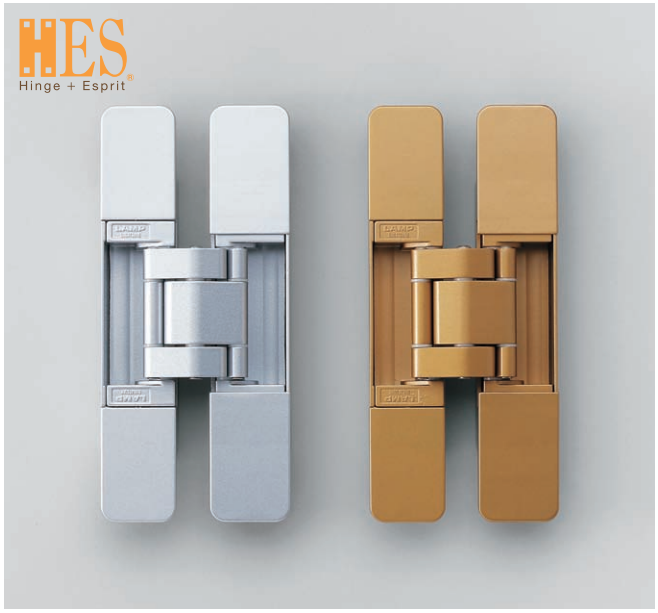
No.	Part Name	Material	Finish/Colour		
			DC	DN	BL
①	Body	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Black
②	Base Frame	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Black
③	Arm	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Black
④	Shaft	Stainless Steel	—	—	—
⑤	Cover (2 pairs)	ABS	Satin Chrome	Satin Nickel	Black

Item Code	Item Name	Colour	Door Width	Door Thickness	Door Weight		Opening Angle	Weight	Box	Carton
170-022-086	HES3D-120DC	Silver	Max. 900	Min. 29	Max. 30 kg/2 pcs	Max. 40 kg/3 pcs	180°	401 g	2 pcs	24 pcs
170-022-087	HES3D-120DN	Champagne Gold	Max. 900	Min. 29	Max. 30 kg/2 pcs	Max. 40 kg/3 pcs	180°	401 g	2 pcs	24 pcs
170-022-088	HES3D-120BL	Black	Max. 900	Min. 29	Max. 30 kg/2 pcs	Max. 40 kg/3 pcs	180°	401 g	2 pcs	24 pcs

3-WAY ADJUSTABLE CONCEALED HINGE

L=R STEEL

HES3D-160



■Features

- 3-WAY adjustment function allows vertical, horizontal, and depth adjustment after hinge installed.
- Easy installation : Temporary door holding feature.
- Successfully passed for the 300,000 open/close private cycle test.
- Cover hides all screw heads for clean appearance.
- Door weight : Max. 30 kg /2 pcs, 40 kg /3 pcs
- Door thickness : Min. 29 mm
- Door width : Max. 900 mm
- Door height : 2400 mm recommended. Taller doors are possible if the weight is within specification.

■Remarks

Recommend to use with bellow door closer/ damper as bellow.

・LAPCON DOOR DAMPER LDD-S (P.720-721)
・LAPCON DOOR DAMPER LDD-V (P.718)
・LAPCON DOOR DAMPER LDC-N2 (P.722-724)

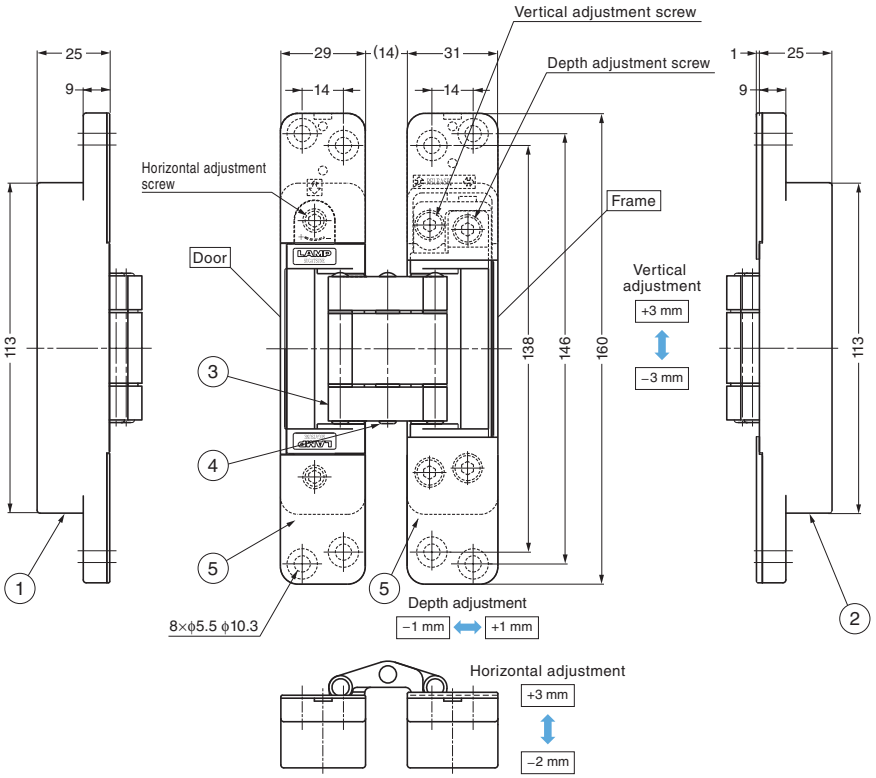
※For using stopper function of LDC, please install door holder separately at the stop position.

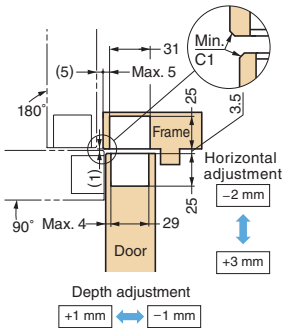
■Parts Included

- Countersunk head wood screw 4.8×25
- Hex. wrench (a nominal diameter 4)

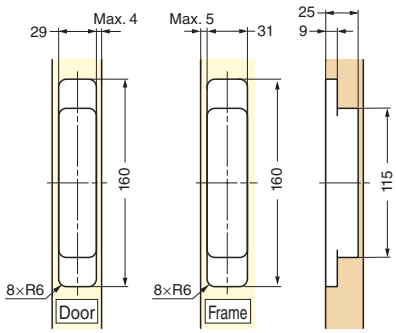
■Sold Separately

Installation template HES3D-160-TMP (P.474)





■Cut Out Dimensions



No.	Part Name	Material	Finish	
			SL	GL
①	Body	Zinc Alloy (ZDC)	Silver	Gold
②	Base Frame	Zinc Alloy (ZDC)	Silver	Gold
③	Arm	Zinc Alloy (ZDC)	Silver	Gold
④	Shaft	Stainless Steel	—	—
⑤	Cover (2 pairs)	ABS	Paint/Silver	Paint/Gold

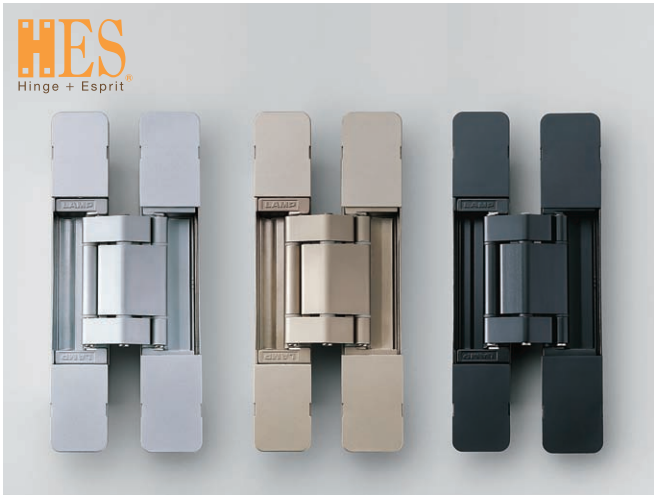
Video Link

Item Code	Item Name	Colour	Door Width	Door Thickness	Door Weight		Opening Angle	Weight	Box	Carton
170-091-009	HES3D-160SL	Silver	Max. 900	Min. 35	Max. 45 kg/2 pcs	Max. 60 kg/3 pcs	180°	756 g	2 pcs	12 pcs
170-091-010	HES3D-160GL	Gold	Max. 900	Min. 35	Max. 45 kg/2 pcs	Max. 60 kg/3 pcs	180°	756 g	2 pcs	12 pcs

3-WAY ADJUSTABLE CONCEALED HINGE

L=R STEEL

HES3D-E190



■Features

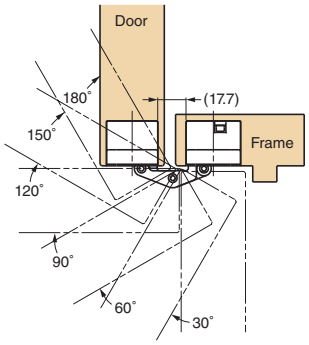
- 3-way adjustment function allows vertical, horizontal, and depth adjustment after hinge installed.
- Easy installation: Temporary door holding feature.
- Successfully passed for the 300,000 open/close private cycle test.
- Cover hides all screw heads for clean appearance.
- Order-made colour available. For further details, please contact local representatives.

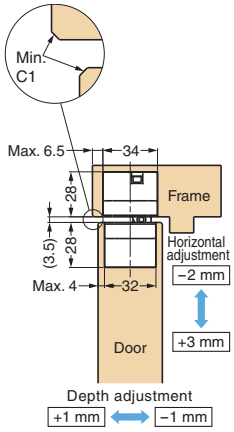
■Parts Included

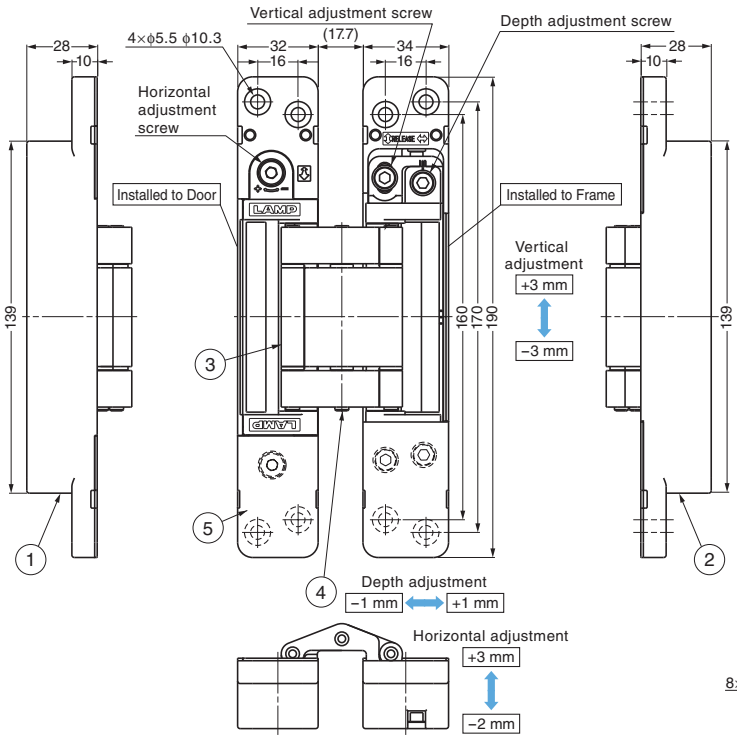
- Countersunk head screw 5×30 (4 pcs/hinge)
- Allen key size 4

■Sold Separately

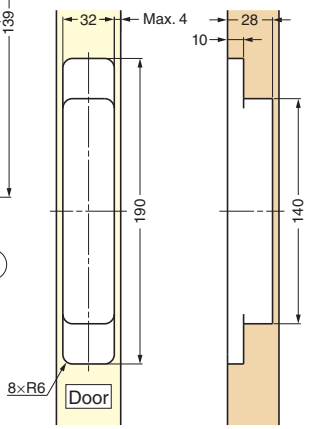
- Installation template HES3D-E190-TMP (P.474)
- Metal door bracket E190BKT (P.475)

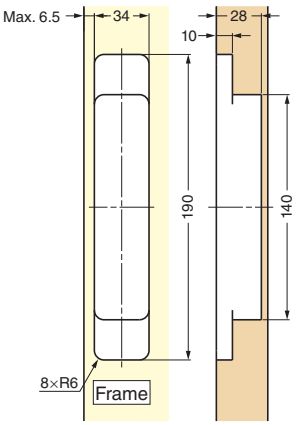






■Cut Out Dimensions





No.	Part Name	Material	Finish/Colour		
			DC	DN	BL
①	Body	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Black
②	Base Frame	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Black
③	Arm	Aluminum Alloy	Satin Chrome	Satin Nickel	Black
④	Shaft	Stainless Steel	Plain	Plain	Plain
⑤	Cover	ABS	Satin Chrome	Satin Nickel	Black

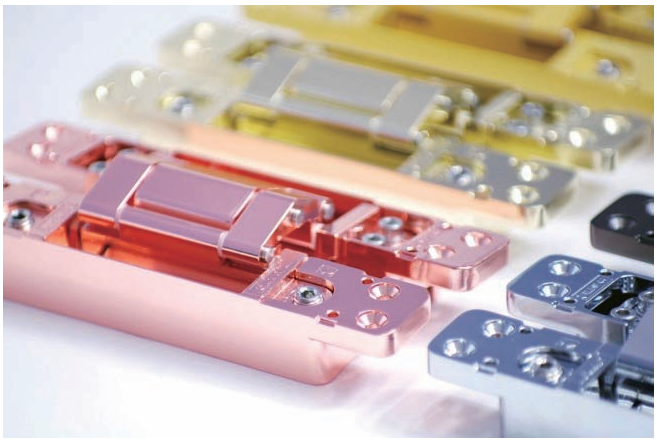
Video Link

Item Code	Item Name	Colour	Door Width	Door Thickness	Door Weight		Opening Angle	Weight	Box	Carton
170-025-498	HES3D-E190DC	Silver	Max. 900	Min. 38 mm	Max. 100 kg/2 pcs	Max. 125 kg/3 pcs	180°	1,113 g	2 pcs	12 pcs
170-025-499	HES3D-E190DN	Champagne Gold	Max. 900	Min. 38 mm	Max. 100 kg/2 pcs	Max. 125 kg/3 pcs	180°	1,113 g	2 pcs	12 pcs
170-025-539	HES3D-E190BL	Black	Max. 900	Min. 38 mm	Max. 100 kg/2 pcs	Max. 125 kg/3 pcs	180°	1,113 g	2 pcs	12 pcs

COLOUR CUSTOMIZATION FOR HES CONCEALED HINGES

Possible to customize the colour for special requirements.

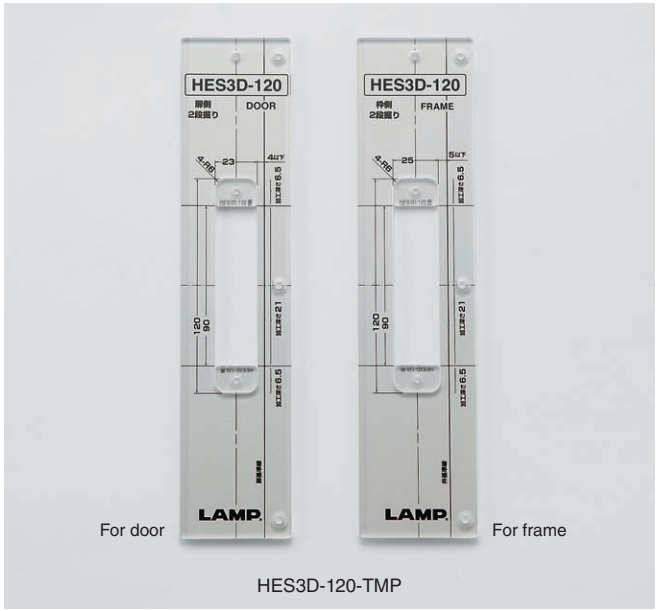






INSTALLATION TEMPLATE

HES3D-TMP



HES3D-120-TMP

■Features

Installation template for HES3D hinges.

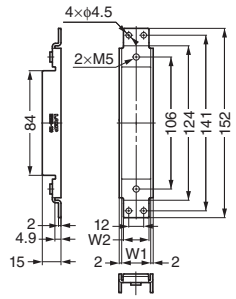
■Remarks

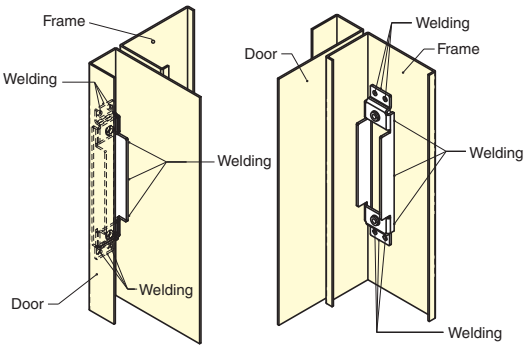
1 pair (for door and frame) included.

Item Code	Item Name	Type	Material	Colour
170-024-569	HES3D-120-TMP	HES3D-120 (P.471)	Methacrylic Resin (PMMA)	Clear
170-024-570	HES3D-160-TMP	HES3D-160 (P.472)	Methacrylic Resin (PMMA)	Clear
170-028-808	HES3D-E190-TMP	HES3D-E190 (P.473)	Methacrylic Resin (PMMA)	Clear

BRACKET OF HES3D-120 FOR SHEET METAL 120BKT



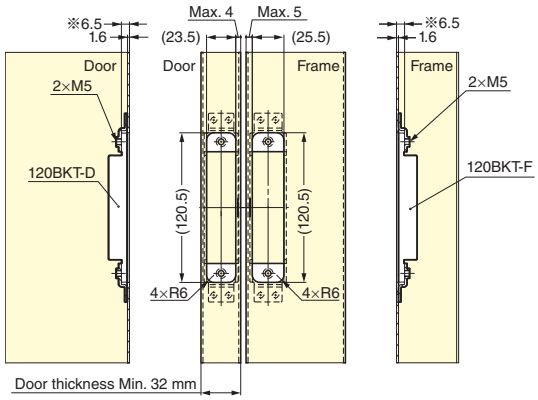




■Features

Bracket to use HES3D-120 hinge (P.471) with sheet metal.

■Installation

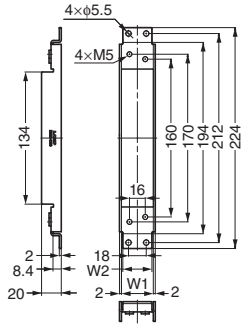


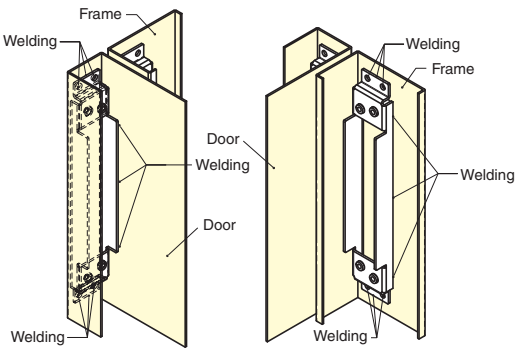
※Dimensions: For flat surface in case of 1.6 mm thick sheet metal.

Item Code	Item Name	Type	Material	Finish/Colour	W1	W2	Weight	Carton
170-032-739	120BKT-D	For Door	Steel (SPCC)	Zinc Chromate	23.3	20.5	58 g	50 pcs
170-032-740	120BKT-F	For Frame			25.3	22.5	58 g	50 pcs

BRACKET OF HES3D-E190 FOR SHEET METAL E190BKT



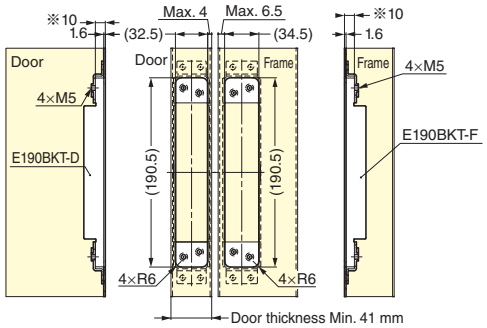




■Features

Bracket to use HES3D-E190 hinge (P.473) with sheet metal.

■Installation



※Dimensions: For flat surface in case of 1.6 mm thick sheet metal.

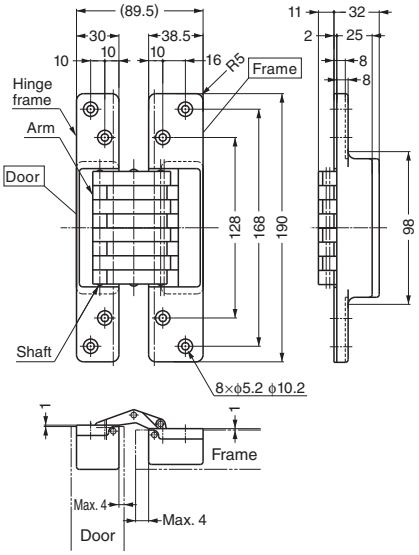
Item Code	Item Name	Type	Material	Finish/Colour	W1	W2	Weight	Carton
170-032-741	E190BKT-D	For Door	Steel (SPCC)	Zinc Chromate	32.3	34.3	135 g	50 pcs
170-032-742	E190BKT-F	For Frame			29.5	31.5	135 g	50 pcs

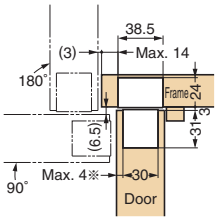
CONCEALED HINGE

L=R STEEL

HES-3038BK







■Features

Finish available in rich polished brass or sleek stain chrome.

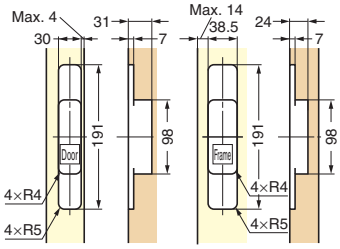
■Remarks

- Recommend to use 3 pcs per one door.
- Secure to check the dimension of ※ marked on bellow drawings.

■Parts Included

Countersunk head tapping screw 5×26

■Cut Out Dimensions

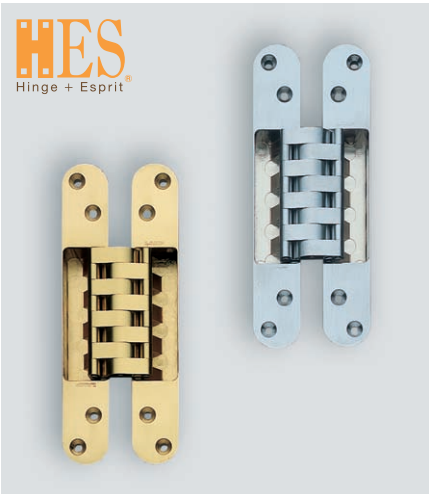


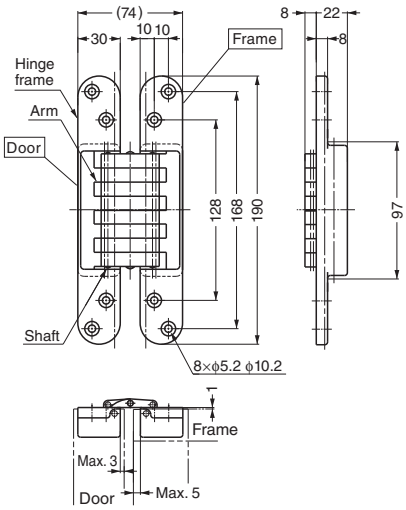
Item Code	Item Name	Material	Finish	Door Width	Door Height	Door Thickness	Door Weight	Opening Angle	Weight	Box	Carton
170-091-013	HES-3038BK PB	Brass	Polished	Max. 900	Max. 2000	Min. 36	Max. 45 kg/3 pcs	180°	1360 g	2 pcs	20 pcs
170-091-015	HES-3038BK SC	Brass	Satin Chrome	Max. 900	Max. 2000	Min. 36	Max. 45 kg/3 pcs	180°	1360 g	2 pcs	20 pcs

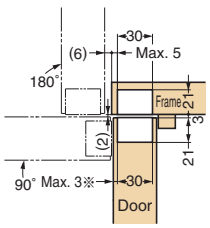
CONCEALED HINGE

L=R STEEL

HES-3030BR







■Features

Finish available in rich polished brass or sleek stain chrome.

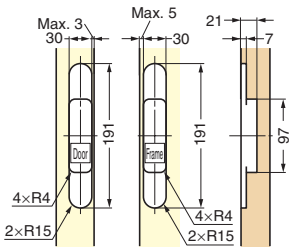
■Remarks

- Recommend to use 3 pcs per one door.
- Secure to check the dimension of ※ marked on bellow drawings.

■Parts Included

Countersunk head tapping screw 5×26

■Cut Out Dimensions



Item Code	Item Name	Material	Finish	Door Width	Door Height	Door Thickness	Door Weight	Opening Angle	Weight	Box	Carton
170-091-003	HES-3030BR PB	Brass	Polished	Max. 900	Max. 2000	Min. 36	Max. 50 kg/3 pcs	180°	1030 g	2 pcs	20 pcs
170-091-014	HES-3030BR SC	Brass	Satin Chrome	Max. 900	Max. 2000	Min. 36	Max. 50 kg/3 pcs	180°	1030 g	2 pcs	20 pcs

CONCEALED HINGE

L=R STEEL **HES-3030PR**



■Features

Concealed hinge for small cabinet door or partition.

■Remarks

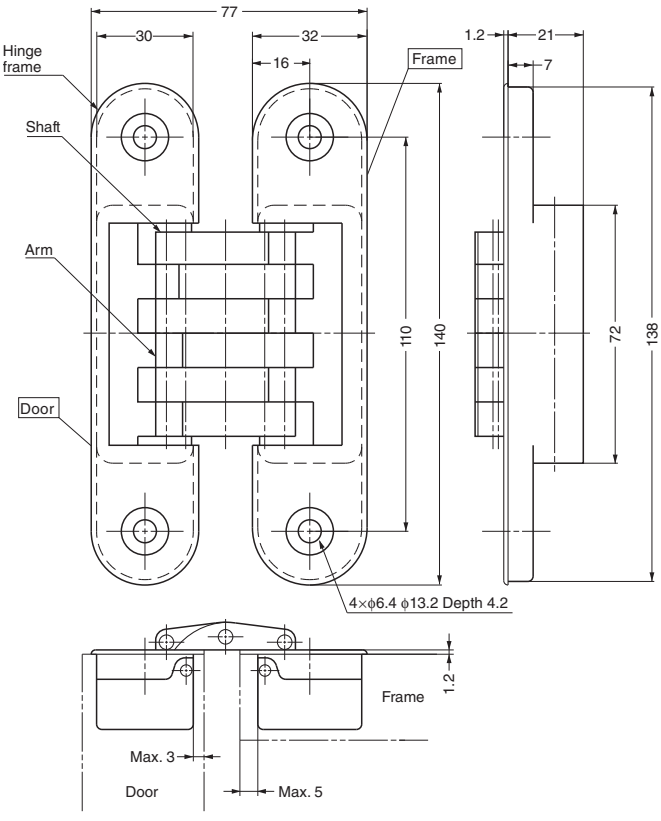
Recommend to use 3 pcs per one door.

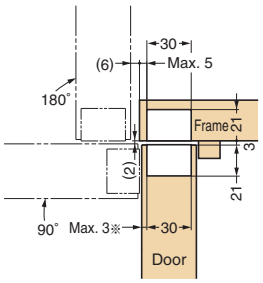
■Parts Included

Binding head tapping screw 6×20

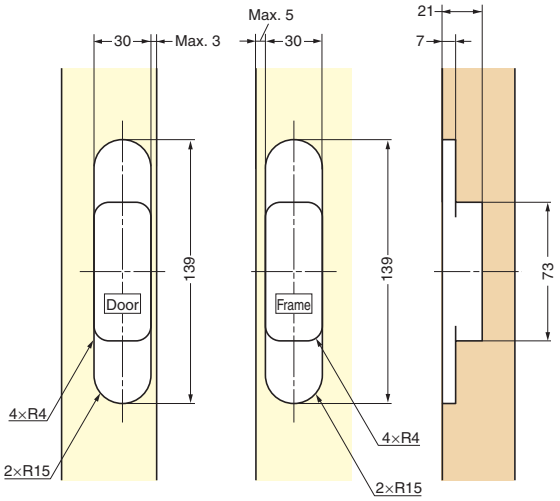
■Caution

Secure to check the dimension of ※ marked on bellow drawings.





■Cut Out Dimensions



Item Code	Item Name	Finish/Colour	Material	Door Width	Door Height	Door Thickness	Door Weight	Opening Angle	Weight	Box	Carton
170-091-006	HES-3030PR WT	White, Chrome	PBT/Brass	Max. 900	Max. 2000	Min. 36	Max. 25 kg/3 pcs	180°	320 g	5 pcs	40 pcs
170-091-004	HES-3030PR BR	Brown, Chrome	PBT/Brass	Max. 900	Max. 2000	Min. 36	Max. 25 kg/3 pcs	180°	320 g	5 pcs	40 pcs
170-091-005	HES-3030PR GR	Grey, Chrome	PBT/Brass	Max. 900	Max. 2000	Min. 36	Max. 25 kg/3 pcs	180°	320 g	5 pcs	40 pcs

CONCEALED HINGE

L=R I-66



■Features

Front plate is made of stainless steel 304.

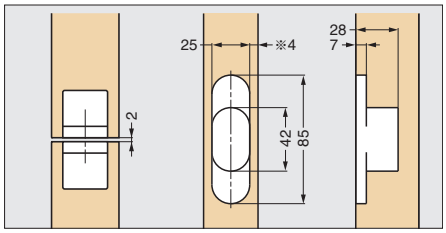
■Remarks

- For using 3 pcs per one door, distance between top hinge and centre hinge must be 200 mm.
- Distance between door edge and hinge (marked ※ on below drawings) must be less than 4 mm.

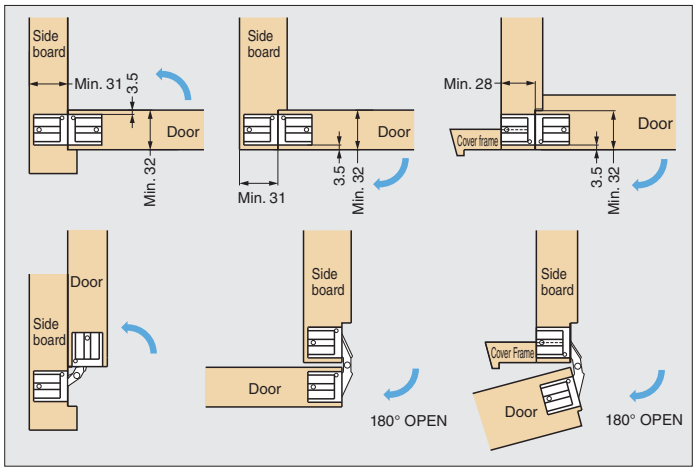
■Recommended Screw

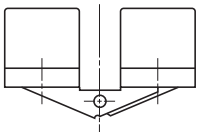
Countersunk head wood screw 5.8

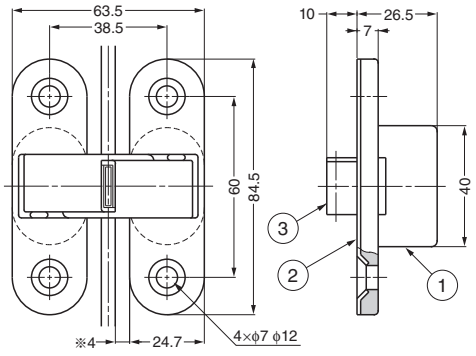
■Cut Out Dimensions



■Installation







No.	Part Name	Material	Finish
①	Body	Polyamide (PA)	–
②	Front Plate	Stainless Steel (SUS304)	Satin
③	Arm	Stainless Steel (SUS304)	–

Item Code	Item Name	Door Width	Door Height	Door Weight		Opening Angle	Weight	Box	Carton
170-095-018	INO-66	Max. 800	Max. 2100	Max. 30 kg/2 pcs	Max. 50 kg/3 pcs	180°	100 g	24 pcs	240 pcs

2-WAY ADJUSTABLE PIVOT HINGE

STEEL **PH-01**



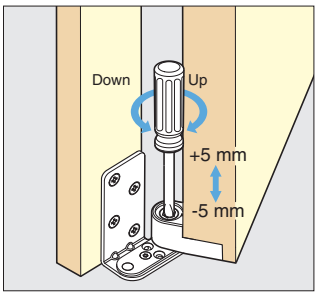
■Features

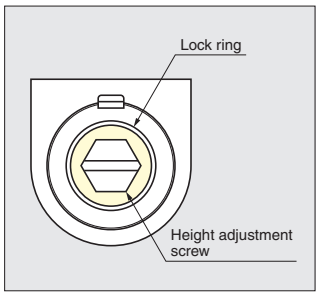
- Hinge position adjustable without removing door.
- Sold in pairs (for top and bottom).

■Parts Included

Countersunk head tapping screw 4×30

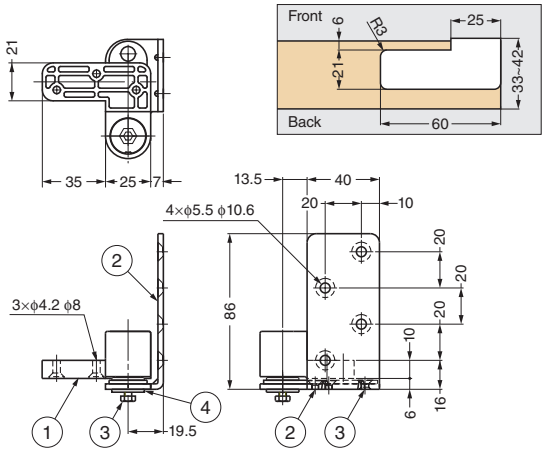
■Vertical Adjustment



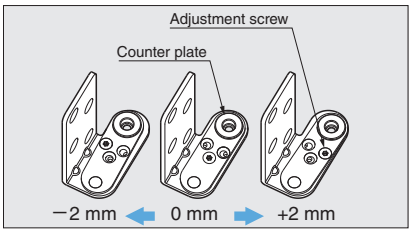


1. Remove the cover cap.
2. Loosen hex lock ring.
3. Adjust by turning slotted screw.
4. Tighten hex lock ring.
5. Put the cover cap.

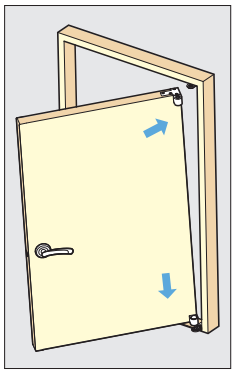
■Cut Out Dimensions



■Lateral Adjustment

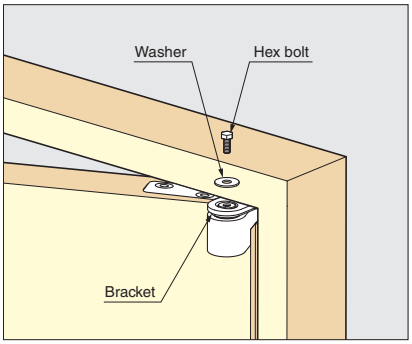


■Door Installation



1. Insert bottom hinge to the bracket.
2. Install door while pushing the shaft of upper hinge.
3. Secure to check the door is fixed with the frame.

■Locking Mechanism



Hex bolt holds the door and prevents the door falling off unexpectedly.

No.	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy (ZDC)	Matte Silver
②	Bracket	Stainless Steel (SUS304)	Polished
③	Hex Bolt	Stainless Steel (SUS304)	—
④	Washer	Stainless Steel (SUS304)	—
⑤	Cover	ABS	White

Item Code	Item Name	Door Width	Door Height	Door Thickness	Door Weight	Weight	Box	Carton
170-090-622	PH-01	Max. 850	Max. 2300	33~42	Max. 35 kg/pair	593 g	1 pair	20 pairs



LIFT-OFF HINGE

L=R STAINLESS 316 STEEL STAINLESS **ZL-1701**



■Features

- Superior finish of Mirror/Satin.
- Oil-free ring provides smooth movement.

■Remarks

Insert spacer between door and frame.

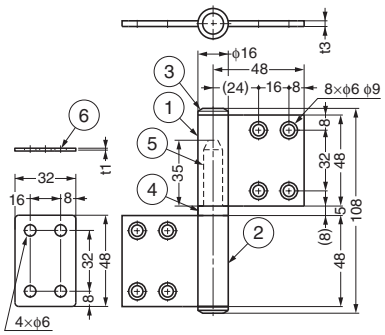
■Parts Included

ZL-1701-10

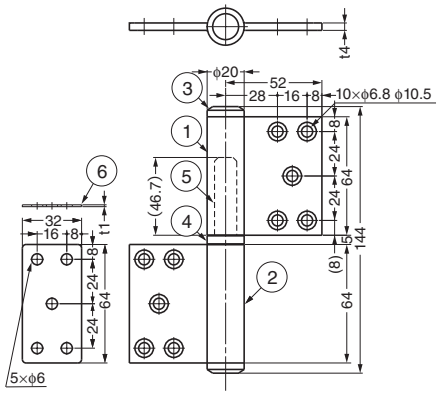
- Countersunk head wood screw 4.1×38 (SUS)
- Countersunk head screw M5×16, ϕ8 (SUS) (For Metal Doors)

ZL-1701-12

- Countersunk head wood screw 4.8×38 (SUS)
- Countersunk head screw M5×16, ϕ9 (SUS) (For Metal Doors)

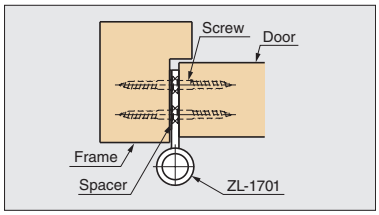


ZL-1701-10

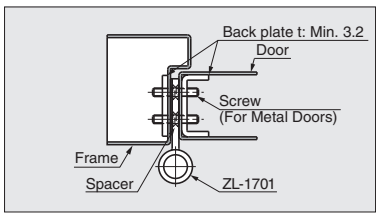


ZL-1701-12

■Installation for Wooden Door



■Installation for Metal Door



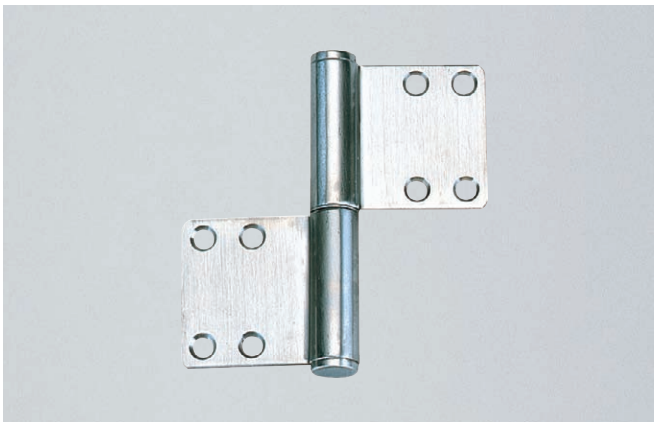
No.	Part Name	Material	Finish
①	Door Side Hinge Plate	Stainless Steel (SUS316)	Zwei L Finish
②	Frame Side Hinge Plate	Stainless Steel (SUS316)	Zwei L Finish
③	Head Cap	Stainless Steel (SUS316)	Zwei L Finish
④	Washer	Stainless Steel (SUS316)	Satin
⑤	Shaft	Stainless Steel (SUS316)	Plain
⑥	Spacer	Stainless Steel (SUS316)	Plain

Item Code	Item Name	Load Capacity		Weight	Box
170-091-691	ZL-1701-10	392 N/2 pcs	40 kgf/2 pcs	305 g	8 pcs
170-091-690	ZL-1701-12	490 N/2 pcs	50 kgf/2 pcs	560 g	6 pcs

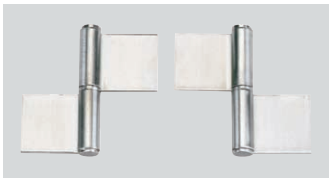
LIFT-OFF HINGE

L=R STAINLESS STAINLESS 304 STEEL

S-6173-2, S-6166-2



S-6173-2



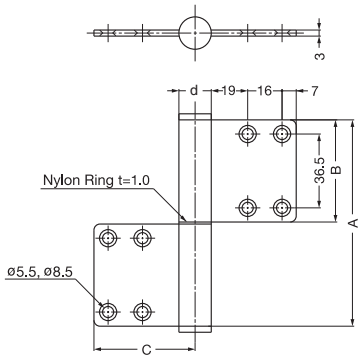
S-6166-2-R S-6166-2-L

■Features

- Screw holes are countersunk from both sides.
- Non-handed.
- Door weight: Max. 40 kg/pair
- Weld-on type (w/o screw hole) is also available.

■Parts Included

Countersunk head tapping screw M4×20 (SUS)



Material	Finish
304 Stainless Steel	Satin

Item Code	Item Name	A	B	C	d	Weight	Box	Carton
170-099-404	S-6173-2	102	50.5	50	ϕ16	240 g	12 pcs	60 pcs

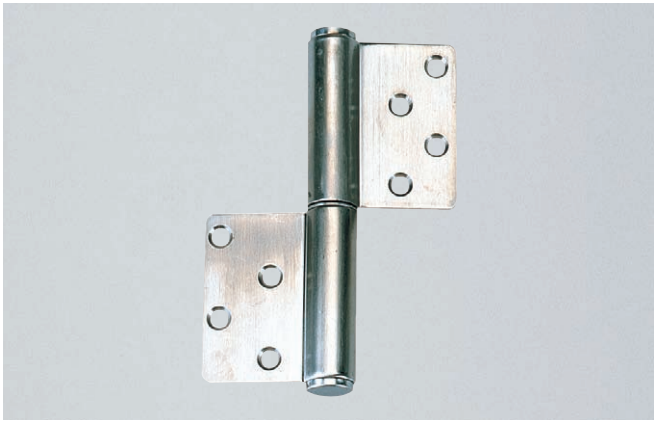
■Weld-on Type

Item Code	Item Name	Type	A	B	C	d	Weight	Box	Carton
170-099-400	S-6166-2-L	Left	102	49.5	55	ϕ18 (ϕ17)	300	12 pcs	60 pcs
170-099-400	S-6166-2-R	Right							

LIFT-OFF HINGE

L=R STAINLESS STAINLESS 304 STEEL

S-6173-5, S-6166-6



S-6173-5



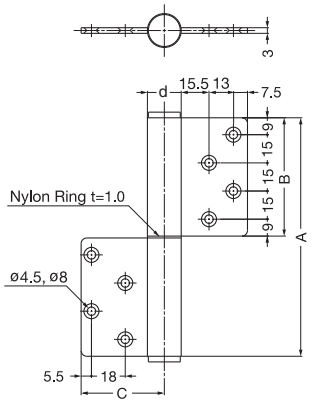
S-6166-6-R S-6166-6-L

■Features

- Screw holes are countersunk from both sides.
- Non-handed.
- Door weight: Max. 50 kg/pair
- Weld-on type (w/o screw hole) is also available.

■Parts Included

Countersunk head tapping screw M4×20 (SUS)



Material	Finish
304 Stainless Steel	Satin

Item Code	Item Name	A	B	C	d	Weight	Box	Carton
170-099-405	S-6173-5	127	63	45	ϕ18	330 g	8 pcs	40 pcs

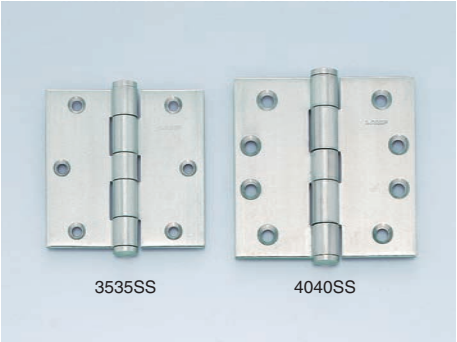
■Weld-on Type

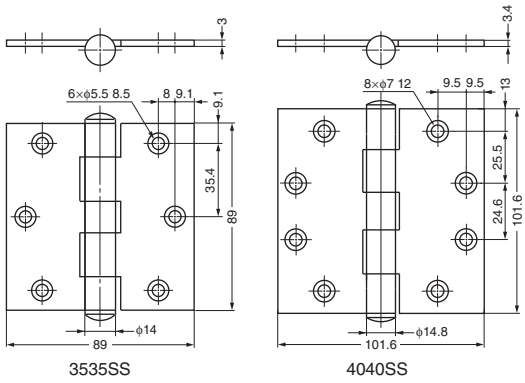
Item Code	Item Name	Type	A	B	C	d	Weight	Box	Carton
170-099-402	S-6166-6-L	Left	152	74.5	55	ϕ20 (ϕ17)	570	8 pcs	40 pcs
170-099-402	S-6166-6-R	Right							

BUTT HINGE

L=R STAINLESS 304 STEEL STEEL

3535SS, 4040SS





■Parts Included

3535SS : Countersunk wood head screw 4.5×25
4040SS : Countersunk wood head screw 5.5×32

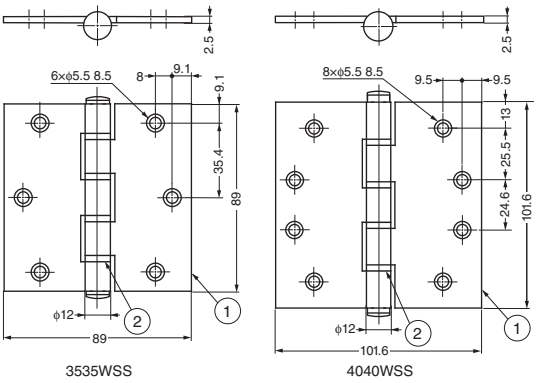
Item Code	Item Name	Material	Finish	Door Weight	Weight	Box	Carton
170-920-181	3535SS	Stainless Steel (SUS304)	Satin	Max. 25 kg/2 pcs	270 g	2 pcs	100 pcs
170-920-182	4040SS	Stainless Steel (SUS304)	Satin	Max. 40 kg/2 pcs	390 g	2 pcs	50 pcs

BUTT HINGE (W/ WASHER)

L=R STAINLESS 304 STEEL STAINLESS

3535WSS, 4040WSS





■Features

Washer prevents from metal-to-metal contact.

■Parts Included

Countersunk head tapping screw 4×25 (SUS)

No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Satin
②	Washer	Polyamide (PA)	White

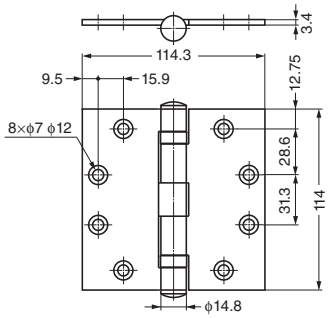
Item Code	Item Name	Door Weight	Weight	Box
170-029-834	3535WSS	Max. 25 kg/2 pcs	206 g	2 pcs
170-029-835	4040WSS	Max. 30 kg/2 pcs	264 g	2 pcs

BUTT HINGE (W/ BALL BEARING)

L=R STAINLESS 304 STEEL STEEL

4545BSS





■Features

Ball bearing provides smooth movement.

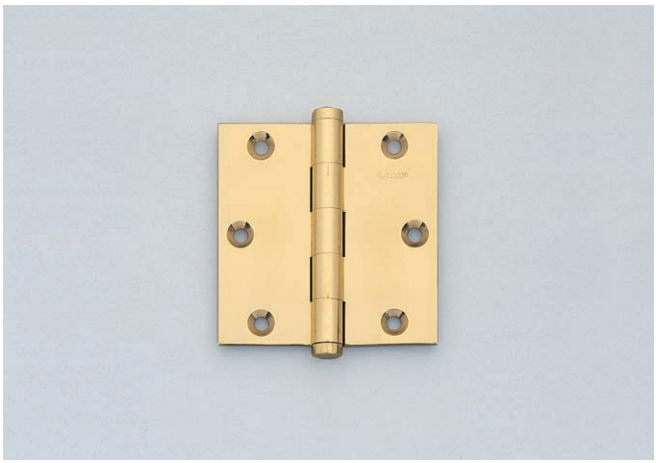
■Parts Included

Countersunk head tapping screw 5.5×32

Item Code	Item Name	Material	Finish	Door Weight	Weight	Box	Carton
170-920-184	4545BSS	Stainless Steel (SUS304)	Satin	Max. 45 kg/2 pcs	475 g	2 pcs	50 pcs

BUTT HINGE

L=R STEEL 3535

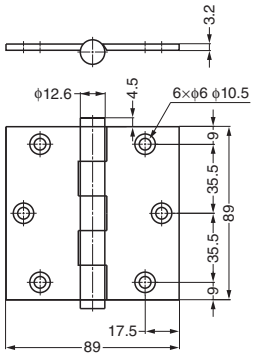


■Parts Included

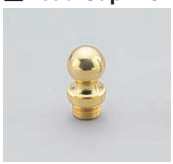
Countersunk head wood screw

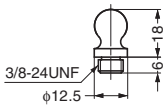
■Sold Separately

Head cap MG-M



■Head Cap MG-M





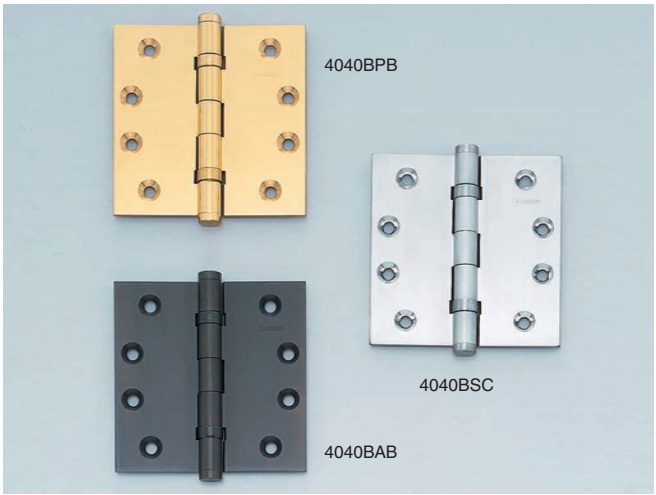
■Head Cap (Sold Separately)

Item Code	Item Name	Finish
170-094-058	MG-M	Metal Polish, Clear

Item Code	Item Name	Material	Finish	Door Width	Door Height	Door Weight	Screw	Weight	Box	Carton
170-090-092	3535	Brass	Polished	Max. 800	Max. 2000	Max. 20 kg/2 pcs	5×26	265 g	2 pcs	60 pcs

BUTT HINGE (W/ BALL BEARING)

L=R STEEL 4040B



■Features

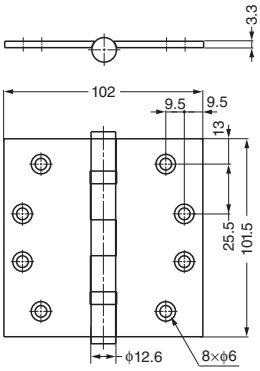
- Ball bearing provides smooth movement.
- The material of axis is stainless steel (SUS304).
- 3 types of finish available.
- Optional accessary for hinge axis MG-M available.

■Parts Included

Countersunk head wood screw 5.5×33

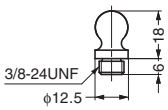
■Sold Separately

Head Cap MG-M



■Head Cap MG-M





■Head Cap (Sold Separately)

Item Code	Item Name	Finish
170-094-058	MG-M	Metal Polish, Clear

Item Code	Item Name	Finish	Material	Door Width	Door Height	Door Weight	Weight	Box	Carton
170-918-790	4040BPB	Polished Brass	Brass	Max. 900	Max. 2000	Max. 50 kg	360 g	2 pcs	40 pcs
170-918-791	4040BSC	Satin Chrome	Brass	Max. 900	Max. 2000	Max. 50 kg	360 g	2 pcs	40 pcs
170-918-792	4040BAB	Antique Bronze	Brass	Max. 900	Max. 2000	Max. 50 kg	360 g	2 pcs	40 pcs

SPRING HINGE

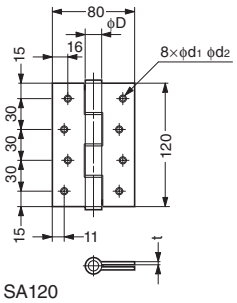
L=R STAINLESS 304 STEEL **SA**



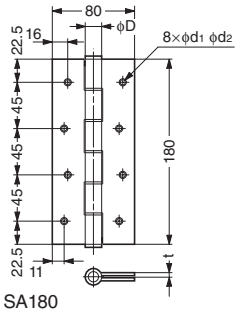


■Features

- Spring loaded for self-closing.
- Spring tension adjustable.
- Stainless steel construction suitable for harsh environments.
- Can be used with door damper LDD-S (P.720-721) and LDD-V (P.718).

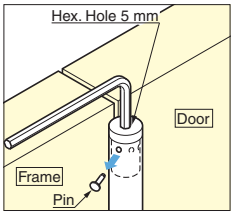


SA120

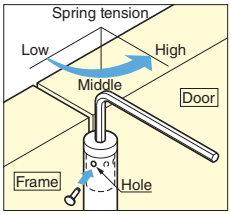


SA180

■How to Adjust Spring Tension

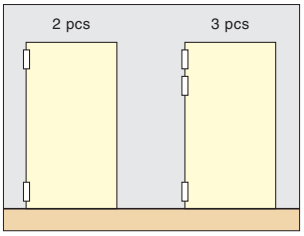


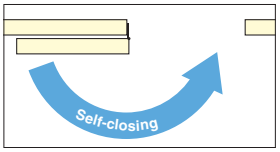
Loosen shaft with Hex key and remove the pin.



Adjust spring tension with three steps. Put the pin to the hole and fix.

■Installation





Item Code	Item Name	Material	Finish	D	t	d_1	d_2	Load Capacity (Door width Max. 1000 mm)		Weight	Box
170-090-810	SA120-5314-01	Aluminium Alloy	Anodized	16	4	5	8	196 N (20 kgf)/2 pcs	294 N (30 kgf)/3 pcs	191 g	2 pcs
170-090-811	SA180-5814-01	Aluminium Alloy	Anodized	16	4	5	8	392 N (40 kgf)/2 pcs	588 N (60 kgf)/3 pcs	276 g	2 pcs
170-090-812	SA120-5314-05	Stainless Steel (SUS304)	Plain	17	2.5	5.5	9	196 N (20 kgf)/2 pcs	294 N (30 kgf)/3 pcs	276 g	2 pcs
170-090-813	SA180-5814-05	Stainless Steel (SUS304)	Plain	18	3	5.5	9	392 N (40 kgf)/2 pcs	588 N (60 kgf)/3 pcs	570 g	2 pcs

SPRING HINGE

L=R STAINLESS 304 STEEL **ST150-6314-05**

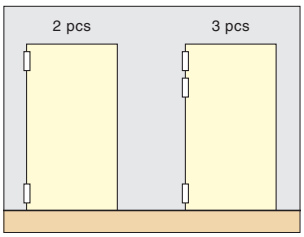


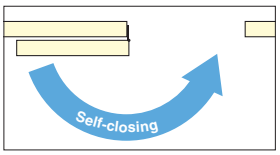


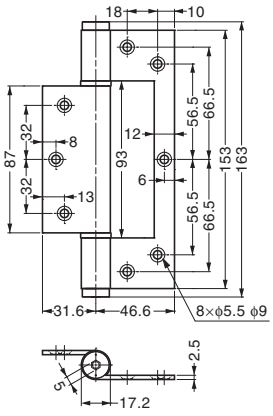
■Features

- Spring loaded for self-closing.
- Spring tension adjustable.
- Stainless steel construction suitable for harsh environments.
- Can be used without any work on the door.
- Can be used with door damper LDD-S (P.720-721) and LDD-V (P.718).

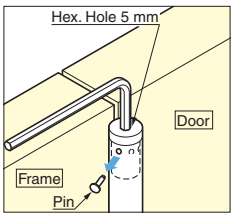
■Installation



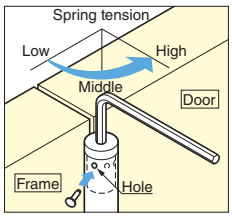




■How to Adjust Spring Tension



Loosen shaft with Hex key and remove the pin.



Adjust spring tension with three steps. Put the pin to the hole and fix.

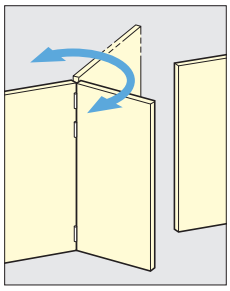
Item Code	Item Name	Material	Finish	Load Capacity (Door width Max. 1000 mm)		Weight	Box
170-022-486	ST150-6314-05	Stainless Steel (SUS304)	Plain	400 N (40 kgf)/2 pcs	600 N (60 kgf)/3 pcs	736 g	2 pcs

DOUBLE ACTION HINGE

L=R STAINLESS 304 STEEL **DA**

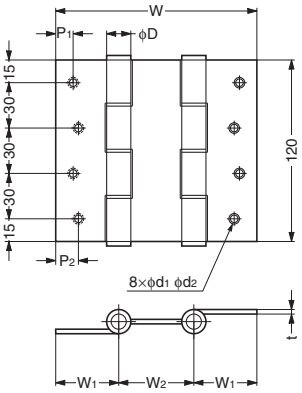




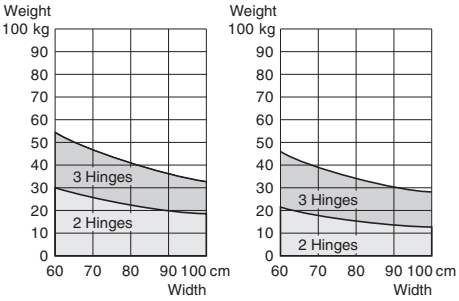


■Features

- Spring loaded for self-closing.
- Opens in both directions inside and outside.
- Spring tension adjustable.
- Stainless steel construction suitable for harsh environments.
- Opening angle is 180˚.

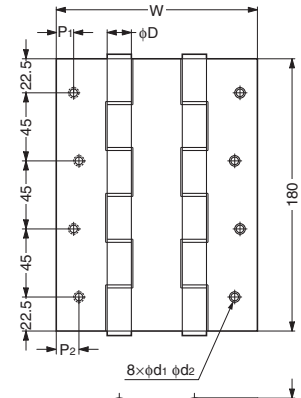


DA120

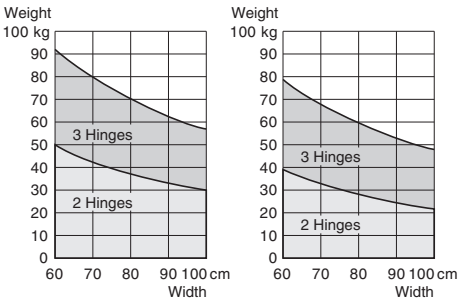


DA120-5404

DA120-5414

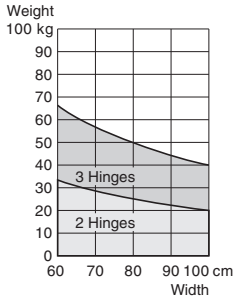


DA180

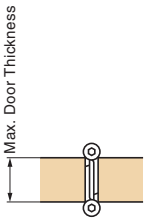


DA180-5904

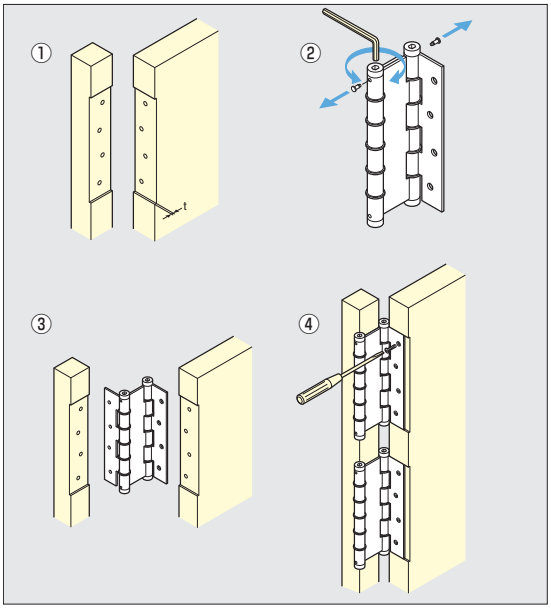
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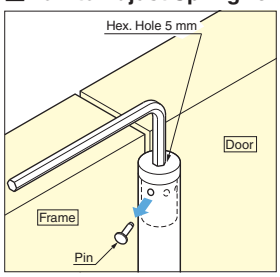
DA180-5934



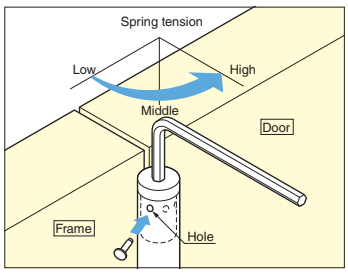
■Installation



■How to Adjust Spring Tension



Loosen shaft with Hex key and remove the pin.



Adjust spring tension with three steps. Put the pin to the hole and fix.

Item Code	Item Name	Material	Finish	W	W1	W2	P1	P2	D	t	d1	d2	Max. Door Thickness	Weight	Box
170-090-803	DA120-5404-01	Aluminium Alloy	Anodized	101	29.5	42	6.5	11.5	16	4	5	8	30	296 g	2 pcs
170-090-804	DA120-5414-01	Aluminium Alloy	Anodized	133	40	53	11	16	16	4	5	8	40	337 g	2 pcs
170-090-805	DA120-5414-05	Stainless Steel (SUS304)	Plain	133	40	53	11	16	17	2.5	5.5	9	36	599 g	2 pcs
170-090-806	DA180-5904-01	Aluminium Alloy	Anodized	101	29.5	42	6.5	11.5	16	4	5	8	30	431 g	2 pcs
170-090-807	DA180-5914-01	Aluminium Alloy	Anodized	133	40	53	11	16	16	4	5	8	40	492 g	2 pcs
170-090-808	DA180-5914-05	Stainless Steel (SUS304)	Plain	133	40	53	11	16	18	3	5.5	9	38	1,006 g	2 pcs
170-090-809	DA180-5934-01	Aluminium Alloy	Anodized	157	48.5	60	19.5	24.5	16	4	5	8	50	560 g	2 pcs

ALUMINIUM SPRING HINGE

L=R

DAM

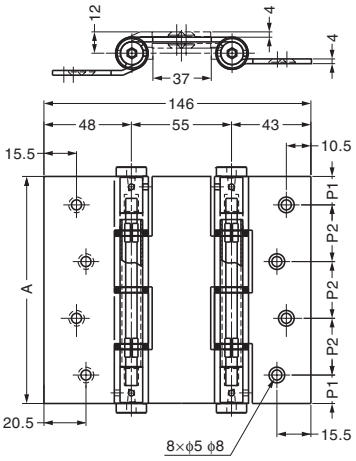


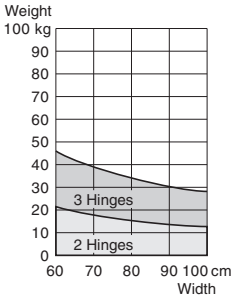
■Features

- Spring loaded for self-closing.
- Opens in both directions inside and outside.
- Spring tension adjustable.

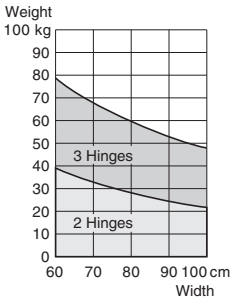
■Remarks

Please use with door stopper.



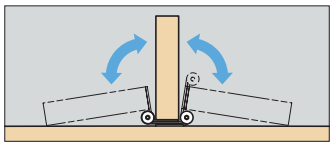


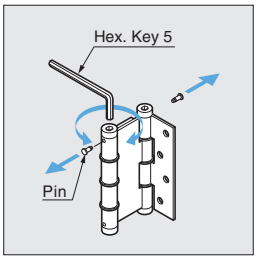
DAM120



DAM180

■How to Adjust Spring Tension





Item Code	Item Name	Material	Finish	A	P1	P2	Door Thickness	Weight	Box
170-017-703	DAM120	Aluminium Alloy	Anodized	120	15	30	Max. 35	342 g	2 pcs
170-017-702	DAM180	Aluminium Alloy	Anodized	180	22.5	45	Max. 35	506 g	2 pcs

ALUMINIUM SPRING LIFT-OFF HINGE

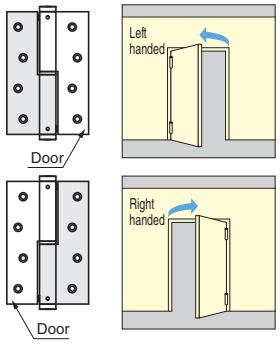
PM120

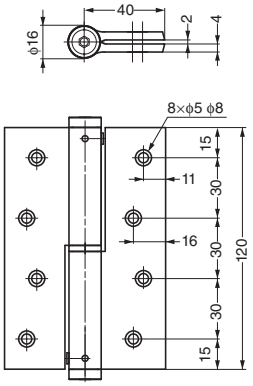


■Features

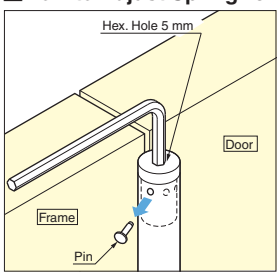
- Spring loaded for self-closing.
- Opens in both directions inside and outside.
- Spring tension adjustable.
- Easy to remove the door.
- Can be used with door damper LDD-S (P.720-721) and LDD-V (P.718).

■Installation

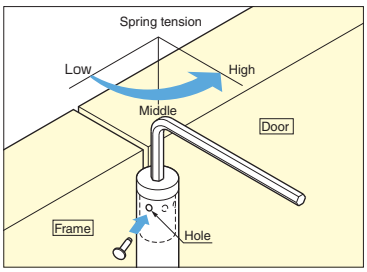




■How to Adjust Spring Tension



Loosen shaft with Hex key and remove the pin.



Adjust spring tension with three steps. Put the pin to the hole and fix.

Item Code	Item Name	Material	Finish	Load Capacity (Door Width Max. 1000 mm)		Weight	Box
170-022-484	PM120-524401L	Aluminium Alloy	Anodized	200 N (20 kgf)/2 pcs	300 N (30 kgf)/3 pcs	380 g	2 pcs
170-022-485	PM120-525401R	Aluminium Alloy	Anodized	200 N (20 kgf)/2 pcs	300 N (30 kgf)/3 pcs	380 g	2 pcs

LID SUPPORTS

SUGATSUNE

SOFT-CLOSE & LIFT ASSIST & FREE STOP STAYS

Lapcon

Picture	Item Name	Door Weight (kg)	Opening	Page
	SLS-ELAN	Torque Moment: 50～100 kgf･cm/pc	UPWARD	494～495
	EZS-ELAN	5～12.5	UPWARD	496～497
	SLU-ELAN	5～11	UPWARD	498
	HBF-ELAN	2.5～6.5	UPWARD	499

SOFT-CLOSE STAYS

Lapcon

Picture	Item Name	Torque Moment (kgf･cm)	Opening	Page
	HBFN	Door Weight: 2.5～5.5 kg	UPWARD	500～501
	SLUN-N	Door Weight: 2.8～5.8 kg	UPWARD	502
	SLD	Door Weight: 3～6 kg	DOWNWARD	503
	HDS-10	140～300/pair	DOWNWARD	504
	HDS-20	140～300/pair	TOP-OPENING	505
	HDS-30	140～300/pair	UPWARD	506
	HDSN-30	140～300/pair	UPWARD	507
	HDS-10S (Self-closing)	60～180/pair	DOWNWARD	508
	HDS-20S (Self-opening)	70～150/pair	TOP-OPENING	509
	SDS-(C)100	35～50/pc	DOWNWARD	510
	SDS-(C)100-TV	5～37.6/pc	DOWNWARD	511
	SDS-200, 201, 210	35～50/pc	TOP-OPENING	512
	SDS-C301N	40～70/pc	UPWARD	513
	CSD-10-TV	10.2～40.8/pc	DOWNWARD	514

Picture	Item Name	Torque Moment (kgf·cm)	Opening	Page
	NSD-10	20～70/pc	DOWNWARD	515
	NSD-20	20～70/pc	TOP-OPENING	516
	NSD-35	20～70/pc	UPWARD	517
	NSDX-10	20～70/pc	DOWNWARD	518
	NSDX-10K-TV	10～20/pc	DOWNWARD	519
	NSDX-20	20～70/pc	TOP-OPENING	520
	NSDX-35	20～70/pc	UPWARD	521
	UDD	5.1～30.6/pc	DOWNWARD	523
	LAD	81.6～163.2/pc	TOP-OPENING	524～525
	OV-EZ	Door Weight: 2.5～7 kg	UPWARD	526～527
	OVN	Door Weight: 3～7 kg	UPWARD	528
	OV-1	Door Weight: 3～5 kg	UPWARD	529
	IF	25～140/set	UPWARD	530～531

LID STAYS

Picture	Item Name	Load Capacity (kgf)	Opening	Page
	ALT-3H	Door Weight: 5 kg	UPWARD	532～533
	S-24, 27, 25	—	DOWNWARD	534
	S-6, 16	—	TOP-OPENING	534
	S-19	—	TOP-OPENING	535
	S-20	—	TOP-OPENING	535

Picture	Item Name	Load Capacity (kgf)	Opening	Page
	S-21	—	TOP-OPENING	536
	S-23	—	TOP-OPENING	536
	S-35	—	DOWNWARD	537
	S-34	—	DOWNWARD	537
	BF-2	Door Weight: 6 kg	DOWNWARD	538
	HS STAINLESS 304 STEEL	—	DOWNWARD	539
	KLS	Door Weight: 8 kg	TOP-OPENING	539
	L-100S, 140S STAINLESS 304 STEEL STAINLESS 303 STEEL	6/pc	UPWARD	540
	L-200P STAINLESS 304 STEEL	15/pc	UPWARD	541
	L-SL140 STAINLESS 304 STEEL	15/pc	UPWARD	542
	L-FS140 STAINLESS 304 STEEL	6/pc	UPWARD	542
	L-195, 270 STAINLESS 304 STEEL	15/pc	UPWARD	544
	LK-222, 335, 380 STAINLESS 304 STEEL	Door Weight: 2.5～4.3 kg	UPWARD/ TOP-OPENING	545
	LB-215, 290 STAINLESS 304 STEEL	15/pc	UPWARD	546
	LB-200A, 350A, 500A STAINLESS 304 STEEL	20～30/pc	UPWARD	547
	LSP-195B, 270B STAINLESS 304 STEEL	30/pc	UPWARD	548
	L-FS350A STAINLESS 304 STEEL	30/pc	UPWARD	549
	U3012HL STAINLESS 304 STEEL	Door Weight: 20 kg	DOOR STOPPER	550
	U-3031HL STAINLESS 304 STEEL	Door Weight: 5 kg	UPWARD	550

FREE-STOP STAYS

Picture	Item Name	Torque Moment (kgf･cm)	Opening	Page
	S-100T30 STAINLESS 430 STEEL	30.6/pc	TOP-OPENING/ DOOR STOPPER	551
	S-52T15 STAINLESS 430 STEEL	15.3/pc	TOP-OPENING	551
	S-TAR	75/pc 82/pc 94/pc	UPWARD/ TOP-OPENING/ DOWNWARD	552～553

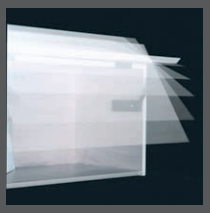
LIFT ASSIST STAYS

Picture	Item Name	Torque Moment (kgf･cm)	Opening	Page
	S-YT STAINLESS 304 STEEL	30, 40/pc	TOP-OPENING	554
	S-AT STAINLESS 430 STEEL	62～120/pc	TOP-OPENING	555
	S-AT02W STAINLESS 430 STEEL	153～214/pc	TOP-OPENING	556～557

Lapcon comes from LAMP CONTROL

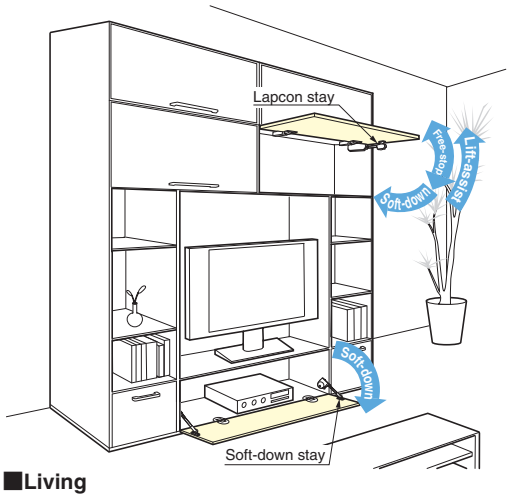


Lapcon series products provide the smoothest opening and closing system imaginable, equipped with Sugatsune's build-in patented dampening device. As a Lapcon opens and closes, it moves with quiet assurance. Lapcon products also provide safety to your application with its revolutionary damper. Doors and lids will come down slowly and softly which eliminates slamming doors or pinched fingers.



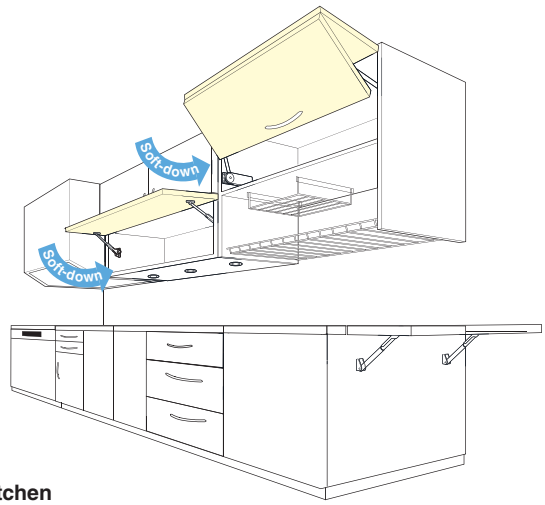


Lapcon



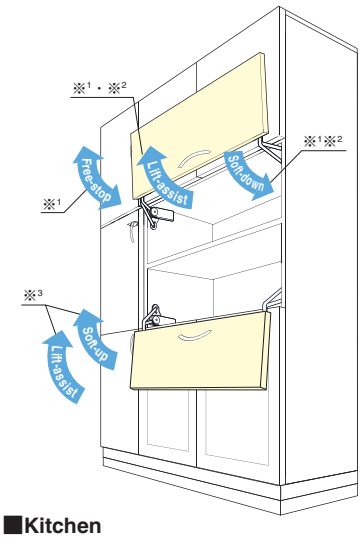
■Living

- Soft-down
  - SDS-100 (P.510)
  - SDS-100-TV (P.511)
  - NSDX-10 (R/L) (P.518)
- Lapcon stay
  - SLS-ELAN (P.494)



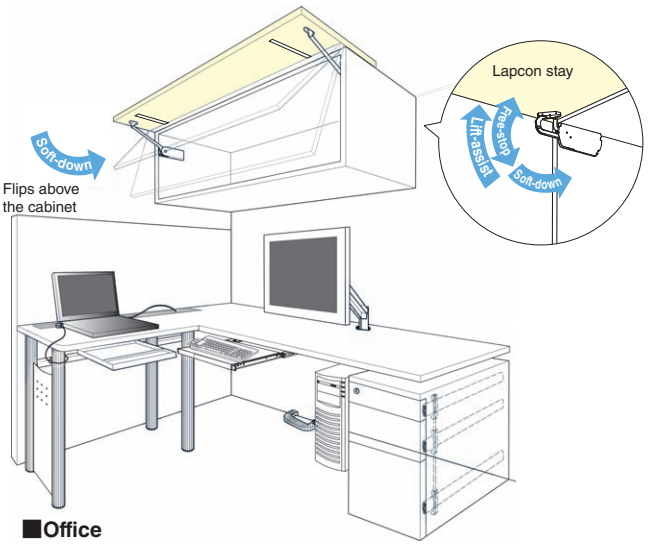
■Kitchen

- Soft-down
  - SDS-C301N (P.513)
  - NSDX-35 (R/L) (P.521)
  - HDS-30 (P.506)
  - HDSN-30 (P.507)
- Horizontal bi-folding
  - HBF-ELAN (P.499)
  - HBFN (P.500～501)



■Kitchen

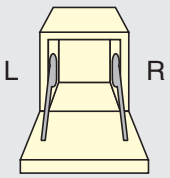
- Swing lift-up
  - ※1：SLU-ELAN (P.498)
  - ※2：SLUN-N (P.502)
- Swing lift-down
  - ※3：SLD (P.503)



■Office

- Flips above the cabinet
  - OV-EZ (P.526～527)
  - OVN (P.528)
  - OV-1 (P.529)
- Lapcon stay
  - EZS-ELAN (P.496～497)

■Soft-down Stay Selection Guide



Application	Hinge type	Stay type	Opening angle
Downward-opening door	・Single knuckle hinge ・Drop hinge ・Concealed hinge	SDS - 100TV, SDS - C100TV	90°
		SDS - 100, SDS - C100	
		NSDX - 10(R/L)K, NSDX - 10(R/L)K-TV	
		HDS - 10	
Top-opening door	・Single knuckle hinge ・Concealed hinge	SDS - 200, SDS - 201	70°
		SDS - 210	105°
		NSDX-20(R/L)K	70°, 105°
		HDS - 20	70°
Upward-opening door	・Single knuckle hinge ・Concealed hinge	SDS - C301N	80°, 90°, 100°
		NSDX - 35(R/L)K	80°, 90°, 100°
		NSDX - 35(R/L)2SK	80°/60°, 90°/65°, 100°/70°
		HDS - 30	80°
		HDSN - 30	80°, 90°
	・Concealed hinge	SLS - ELAN, SLS - ELAN-TV	90°

■ SDS Selection Guide

Door Height	SDS-100-TV/SDS-C100-TV		SDS-100-TVZ/SDS-C100-TVZ		SDS-100/SDS-C100/SDS-200/SDS-201/SDS-210		SDS-C301N	
	Door Weight/pc	Door Weight/pair	Door Weight/pc	Door Weight/pair	Door Weight/pc	Door Weight/pair	Door Weight/pc	Door Weight/pair
200	0.50～1.20 kg	1.00～2.40 kg	1.65～3.76 kg	3.30～7.52 kg	–	–	–	–
250	0.40～0.96 kg	0.80～1.92 kg	1.32～3.01 kg	2.64～6.02 kg	2.80～4.00 kg	5.60～8.00 kg	3.20～5.60 kg	6.40～11.20 kg
300	0.34～0.80 kg	0.67～1.60 kg	1.10～2.51 kg	2.20～5.01 kg	2.34～3.33 kg	4.67～6.66 kg	2.67～4.66 kg	5.34～ 9.33 kg
350	0.29～0.68 kg	0.58～1.37 kg	0.94～2.15 kg	1.89～4.30 kg	2.00～2.85 kg	4.00～5.71 kg	2.29～4.00 kg	4.58～ 8.00 kg
400	0.25～0.60 kg	0.50～1.20 kg	0.83～1.88 kg	1.65～3.76 kg	1.75～2.50 kg	3.50～5.00 kg	2.00～3.50 kg	4.00～ 7.00 kg
450	0.23～0.53 kg	0.45～1.06 kg	0.73～1.67 kg	1.47～3.34 kg	1.56～2.22 kg	3.12～4.44 kg	1.78～3.11 kg	3.56～ 6.22 kg
500	–	–	0.66～1.50 kg	1.32～3.01 kg	1.40～2.00 kg	2.80～4.00 kg	1.60～2.80 kg	3.20～ 5.60 kg

■ NSDX Selection Guide

Door Height	NSDX-10 (R/L) K-TV	
	Door Weight/pc	Door Weight/pair
200	1.00～2.00 kg	2.00～4.00 kg
250	0.80～1.60 kg	1.60～3.20 kg
300	0.67～1.33 kg	1.34～2.66 kg
350	0.58～1.14 kg	1.15～2.29 kg
400	0.50～1.00 kg	1.00～2.00 kg
450	0.45～0.89 kg	2.39～1.78 kg

Door Height	NSDX-10 (R/L) K NSDX-20 (R/L) K NSDX-35 (R/L) K		NSDX-35 (R/L) 2SK	
	Door Weight/pc	Door Weight/pair	Door Weight/pc	Door Weight/pair
250	1.60～5.60 kg	3.20～11.20 kg	1.60～4.00 kg	3.20～8.00 kg
300	1.34～4.66 kg	2.67～ 9.33 kg	1.33～3.33 kg	2.67～6.66 kg
350	1.15～4.00 kg	2.29～ 8.00 kg	1.14～2.85 kg	2.29～5.71 kg
400	1.00～3.50 kg	2.00～ 7.00 kg	1.00～2.50 kg	2.00～5.00 kg
450	0.89～3.11 kg	1.78～ 6.22 kg	0.89～2.22 kg	1.78～4.44 kg
500	0.80～2.80 kg	1.60～ 5.60 kg	0.80～2.00 kg	1.60～4.00 kg

■ SLS-ELAN Selection Guide

Door Height	SLS-ELAN-M (R/L)		SLS-ELAN-H (R/L) -TV		SLS-ELAN-H (R/L)	
	Door Weight/pc	Door Weight/pair	Door Weight/pc	Door Weight/pair	Door Weight/pc	Door Weight/pair
300	–	–	3.13～4.20 kg	6.26～8.40 kg	–	–
350	2.86～4.28 kg	5.72～8.57 kg	2.69～3.60 kg	5.38～7.20 kg	4.29～5.71 kg	8.58～11.42 kg
400	2.50～3.75 kg	5.00～7.50 kg	–	–	3.75～5.00 kg	7.50～10.00 kg
450	2.23～3.33 kg	4.45～6.66 kg	–	–	3.34～4.44 kg	6.67～ 8.88 kg
500	2.00～3.00 kg	4.00～6.00 kg	–	–	3.00～4.00 kg	6.00～ 8.00 kg

■ HDS Selection Guide

Door Height	HDS-10K HDS-20K HDS-30K	HDS-10M HDS-20M HDS-30M	HDS-10H HDS-20H HDS-30H
	Door Weight/pair	Door Weight/pair	Door Weight/pair
300	9.34～13.33 kg	13.34～16.66 kg	16.67～20.00 kg
350	8.00～11.42 kg	11.43～14.28 kg	14.29～17.14 kg
400	7.00～ 9.99 kg	10.00～12.49 kg	12.50～15.00 kg
450	6.23～ 8.88 kg	8.89～11.11 kg	11.12～13.33 kg
500	5.60～ 7.99 kg	8.00～ 9.99 kg	10.00～12.00 kg
550	5.10～ 7.27 kg	7.28～ 9.09 kg	9.10～10.90 kg
600	4.67～ 6.66 kg	6.67～ 8.33 kg	8.34～10.00 kg

■ HDSN Selection Guide

Door Height	Opening Angle 90°				Opening Angle 80°			
	HDSN-30K	HDSN-30M	HDSN-30H	HDSN-30S	HDSN-30K	HDSN-30M	HDSN-30H	HDSN-30S
	Door Weight/pair	Door Weight/pair	Door Weight/pair	Door Weight/pair	Door Weight/pair	Door Weight/pair	Door Weight/pair	Door Weight/pair
250	11.20～15.19 kg	15.20～18.39 kg	18.40～21.59 kg	21.60～24.00 kg	–	–	–	–
300	9.33～12.66 kg	12.67～15.32 kg	15.33～17.99 kg	18.00～20.00 kg	–	–	–	–
350	8.00～10.85 kg	10.86～13.13 kg	13.14～15.42 kg	15.43～17.14 kg	8.00～11.42 kg	11.43～14.28 kg	14.29～17.13 kg	17.14～20.00 kg
400	7.00～ 9.49 kg	9.50～11.49 kg	11.50～13.49 kg	13.50～15.00 kg	7.00～ 9.99 kg	10.00～12.49 kg	12.50～14.99 kg	15.00～17.50 kg
450	6.22～ 8.43 kg	8.44～10.21 kg	10.22～11.99 kg	12.00～13.33 kg	6.22～ 8.88 kg	8.89～11.10 kg	11.11～13.32 kg	13.33～15.56 kg
500	5.60～ 7.59 kg	7.60～ 9.19 kg	9.20～10.79 kg	10.80～12.00 kg	5.60～ 7.99 kg	8.00～ 9.99 kg	10.00～11.99 kg	12.00～14.00 kg
550	5.09～ 6.90 kg	6.91～ 8.35 kg	8.36～ 9.81 kg	9.82～10.91 kg	5.09～ 7.26 kg	7.27～ 9.08 kg	9.09～10.90 kg	10.91～12.73 kg
600	4.67～ 6.32 kg	6.33～ 7.66 kg	7.67～ 8.99 kg	9.00～10.00 kg	4.67～ 6.66 kg	6.67～ 8.33 kg	8.33～ 9.99 kg	10.00～11.67 kg

CUSTOMIZE COLOUR OF LAPCON STAYS

Possible to make custom colours for special requirements.

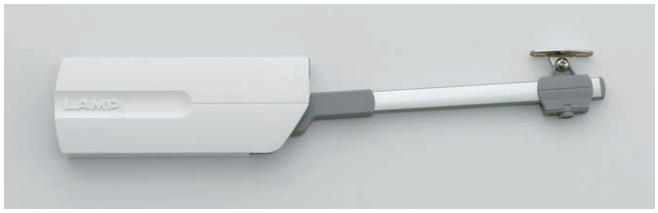


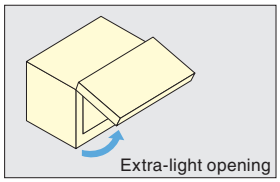


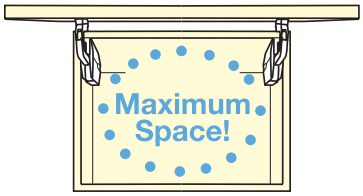
EASY LIFT-UP STAY

Lapcon STEEL **SLS-ELAN**





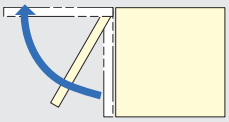




■ 3 Functions in 1 Stay

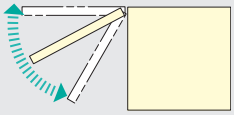
1. Lift-assist



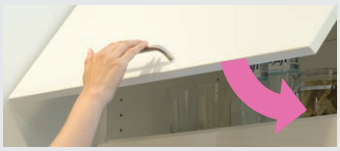


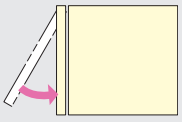
2. Free-stop





3. Soft-close





■Features

- For upward-opening flap doors.
- Can be used with concealed, piano, or butt hinges.
- Lift-assist mechanism for extra-light opening.
- Door stays in any desired position.
- Damper equipped for soft & silent closing at the end.
- Easy-installed just by aligning the main body to the inside cabinet corner.
- Optional bracket for aluminium frame door available.
- Single or pair use allows wide range of door sizes/weights.
- Recognized by LGA for 40,000 cycles.

■Parts Included

- Mounting plate for wooden door
- Countersunk head tapping screw 3.5×35 for main body (2 pcs)
- Binding head tapping screw 3.5×15 for mounting plate (2 pcs)
- Truss head screw M4×5 for mounting plate (1 pc)

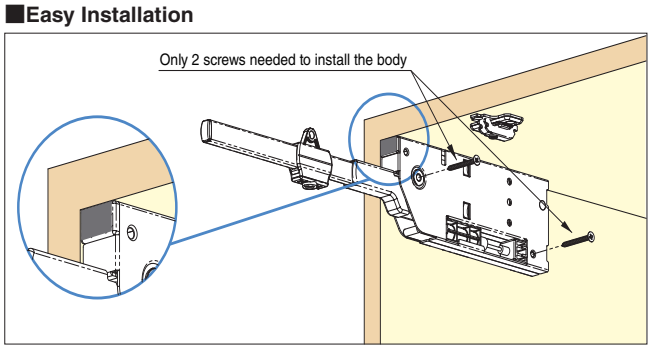
■Remarks

Hinge is not included.

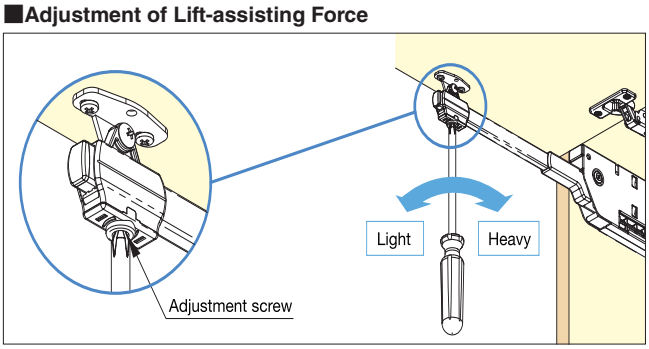
■Sold Separately

- Mounting plate SLS-ELAN-AZ for aluminium frame
- Possible to cover the original logo "LAMP" on the body with ELAN-LP (Item Code: 180-018-225) at surcharge.
- Slider (for maintenance)

■Easy Installation

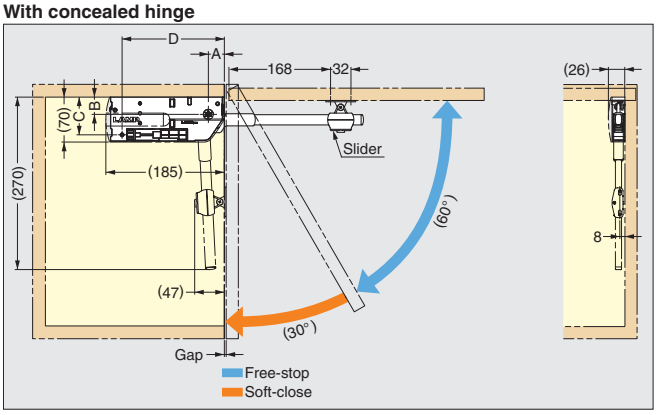


■Adjustment of Lift-assisting Force

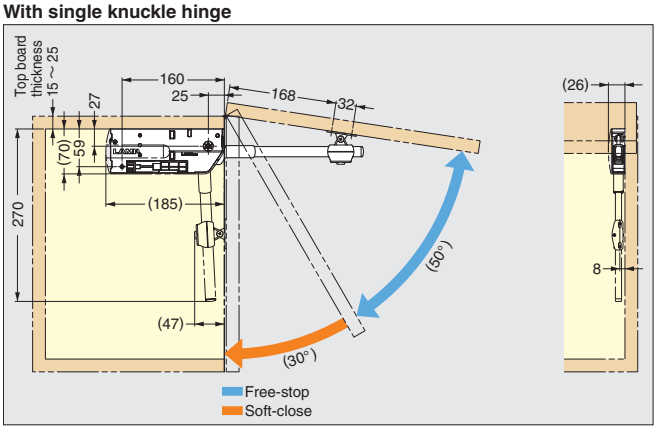


■Installation (Right Side)

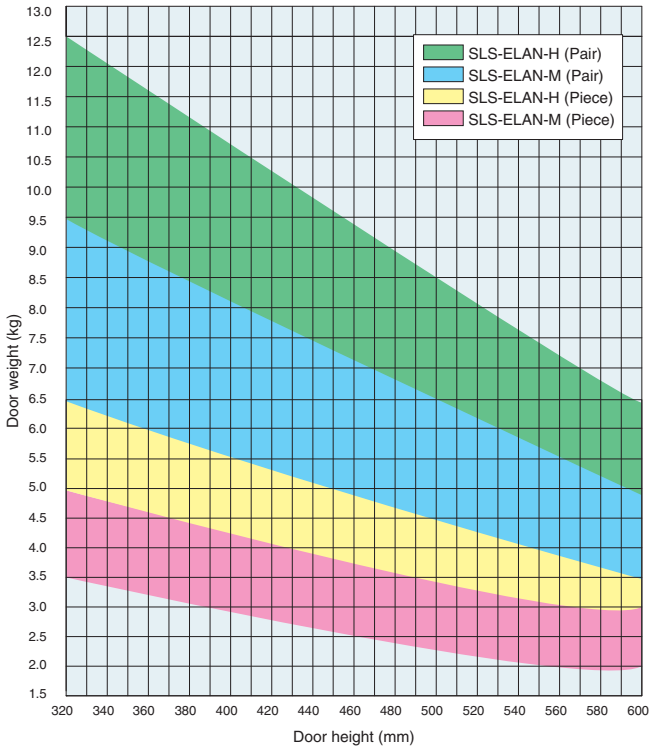
With concealed hinge



With single knuckle hinge

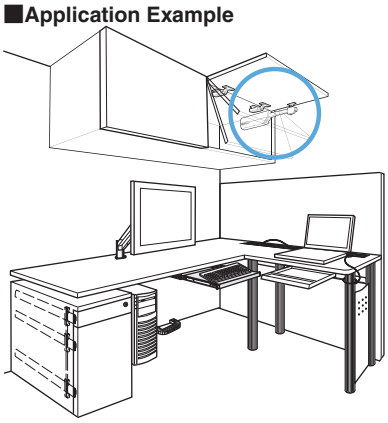


■Door Size Ranges



For heavier flap application,
please contact your local dealer or sugatsune office.

■Application Example





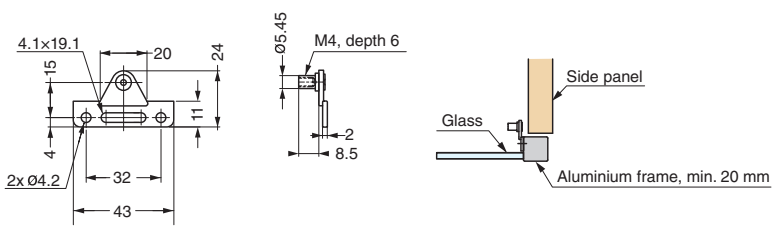
■Slider for Maintenance

Item Code	Item Name	Weight	Carton
180-016-498	SLS-ELAN SLIDER	10 g	20 pcs

Item Code	Item Name	Type	Material	Finish/Colour	Model	Torque Moment/piece	Weight	Carton
180-015-491	SLS-ELAN-MR S	Right	Aluminium Alloy/ABS	Anodized/Light Grey	M	4.90～7.35 N・m (50～75 kgf・cm)	600 g	20 pcs
180-015-490	SLS-ELAN-ML S	Left	Aluminium Alloy/ABS	Anodized/Light Grey	M		600 g	20 pcs
180-015-493	SLS-ELAN-HR S	Right	Aluminium Alloy/ABS	Anodized/Light Grey	H	7.35～9.80 N・m (75～100 kgf・cm)	600 g	20 pcs
180-015-492	SLS-ELAN-HL S	Left	Aluminium Alloy/ABS	Anodized/Light Grey	H		600 g	20 pcs

MOUNTING PLATE FOR ALUMINIUM FRAME DOOR SLS-ELAN-AZ





■Mounting Plate for Aluminium Frame Door (Sold Separately)

Item Code	Item Name	Part Name	Weight	Box
180-017-647	SLS-ELAN-AZ	Body	11 g	320 pcs
180-018-555	SLS-ELAN-AZS	Screw Set	5 g	800 sets

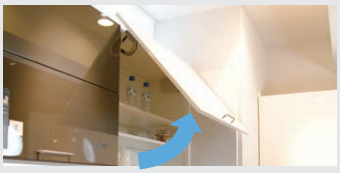
LIFT-ASSIST STAY

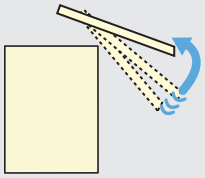
Lapcon STEEL **EZS-ELAN**



■ 3 Functions in 1 Stay

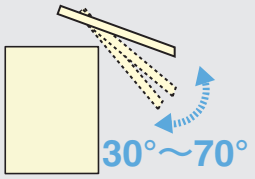
1. Lift-assist



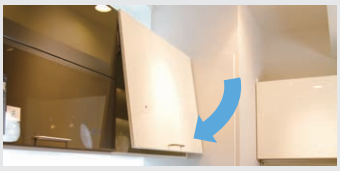


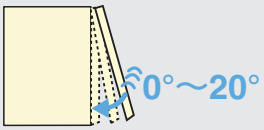
2. Free-stop





3. Soft-close





■Features

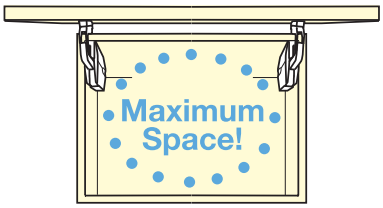
- For upward-opening doors.
- Door opens over the cabinet.
- Lift-assist mechanism for extra-light opening.
- Door stays in any desired position.
- Damper equipped for soft & silent closing at the end.
- Slim design and installation position maximizes space inside of the cabinet.
- Easy-installed just by aligning the main body to the inside cabinet corner.
- No hinges/connecting bar needed.
- Door height adjustable.
- Successfully passed for the 30,000 open/close private cycle test.

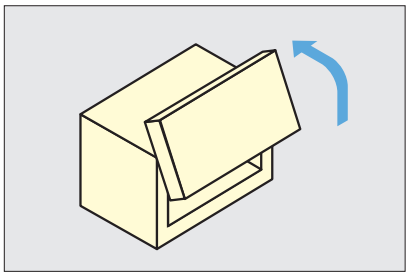
■Remarks

Used in pairs.

■Parts Included

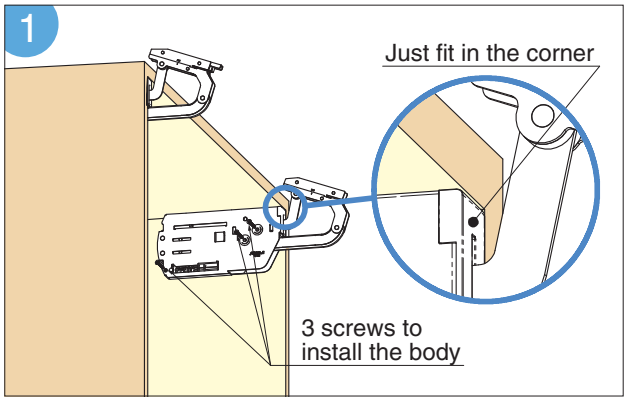
- Mounting plate (2 pcs)
- Countersunk head tapping screw 3.5×38 for main body (6 pcs)
- Binding head tapping screw 3.5×15 for mounting plate (4 pcs)

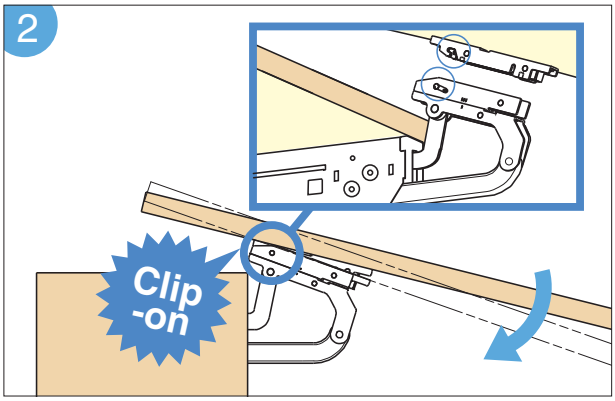




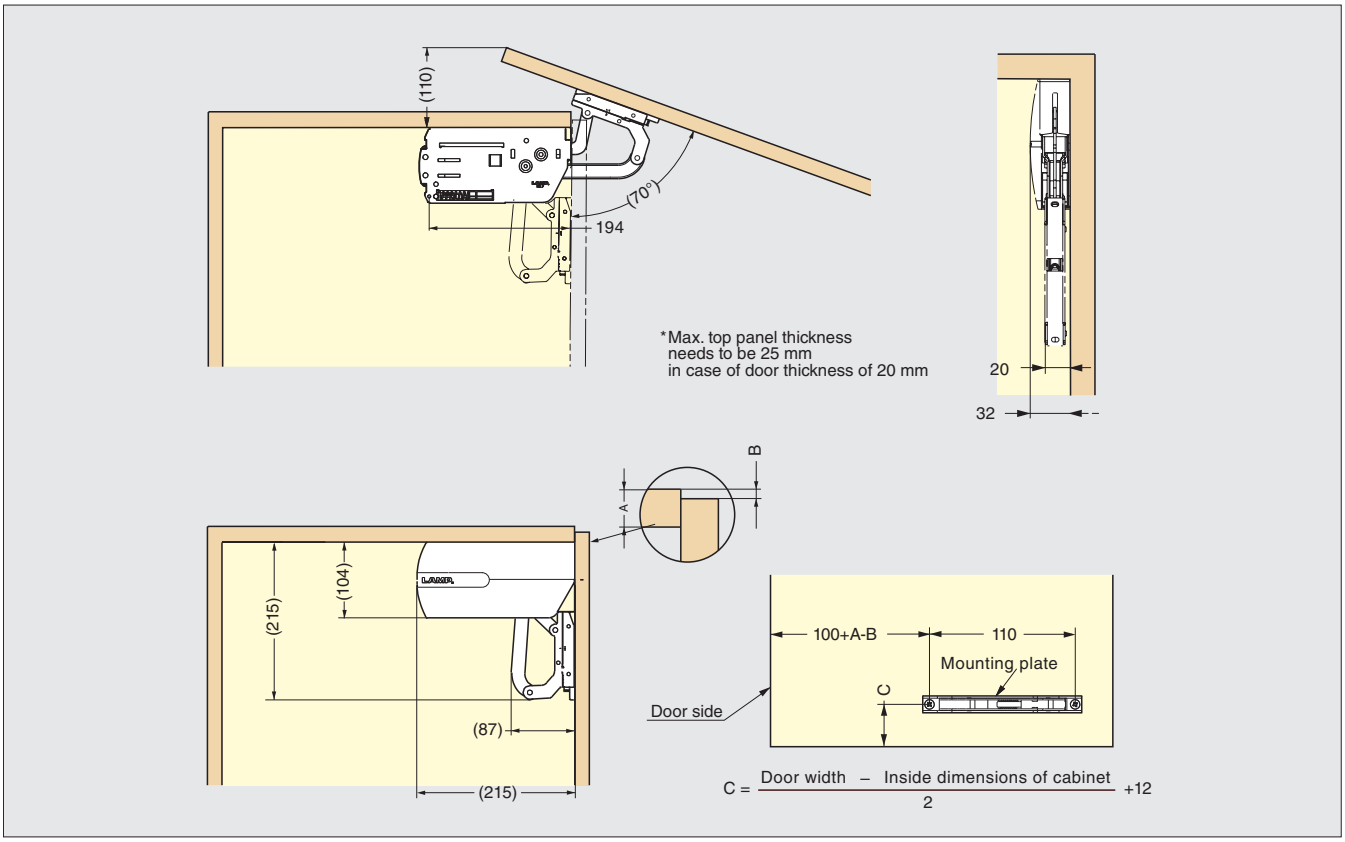


■ Easy Installation

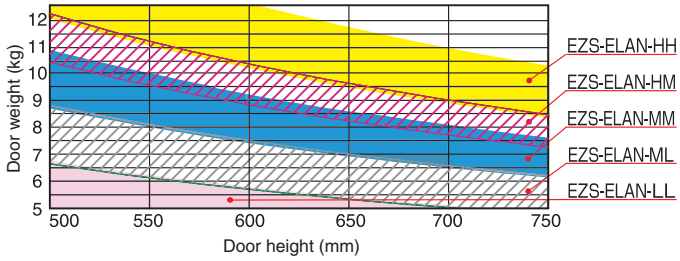




■Installation



■Door Size Range



■Liftting Power

Door height (mm) x (Door weight (kg) -1)

Liftting Power	Model
1900-2860	EZS-ELAN-LL
2820-3900	EZS-ELAN-ML
3850-4950	EZS-ELAN-MM
4700-5600	EZS-ELAN-HM
5550-6930	EZS-ELAN-HH

■Set Packing

Item Code	Item Name	Material	Finish/Colour	Weight	Carton
180-018-903	EZS-ELAN-LL S	Steel/ABS	Nickel/Light Grey	2494 g	5 sets
180-018-904	EZS-ELAN-ML S	Steel/ABS	Nickel/Light Grey	2569 g	5 sets
180-018-905	EZS-ELAN-MM S	Steel/ABS	Nickel/Light Grey	2646 g	5 sets
180-018-906	EZS-ELAN-HM S	Steel/ABS	Nickel/Light Grey	2646 g	5 sets
180-018-907	EZS-ELAN-HH S	Steel/ABS	Nickel/Light Grey	2646 g	5 sets

■Bulk Packing

Item Code	Item Name	Material	Finish/Colour	Weight	Carton
180-018-923	EZS-ELAN-L	Steel/ABS	Nickel, Light Grey	2334 g	5 sets
180-018-924	EZS-ELAN-M	Steel/ABS	Nickel, Light Grey	2486 g	5 sets
180-018-925	EZS-ELAN-H	Steel/ABS	Nickel, Light Grey	2486 g	5 sets
180-018-983	EZS-ELAN-COVER	ABS	Light Grey	160 g	5 sets

SWING LIFT-UP STAY

Lapcon STEEL

SLU-ELAN



■Features

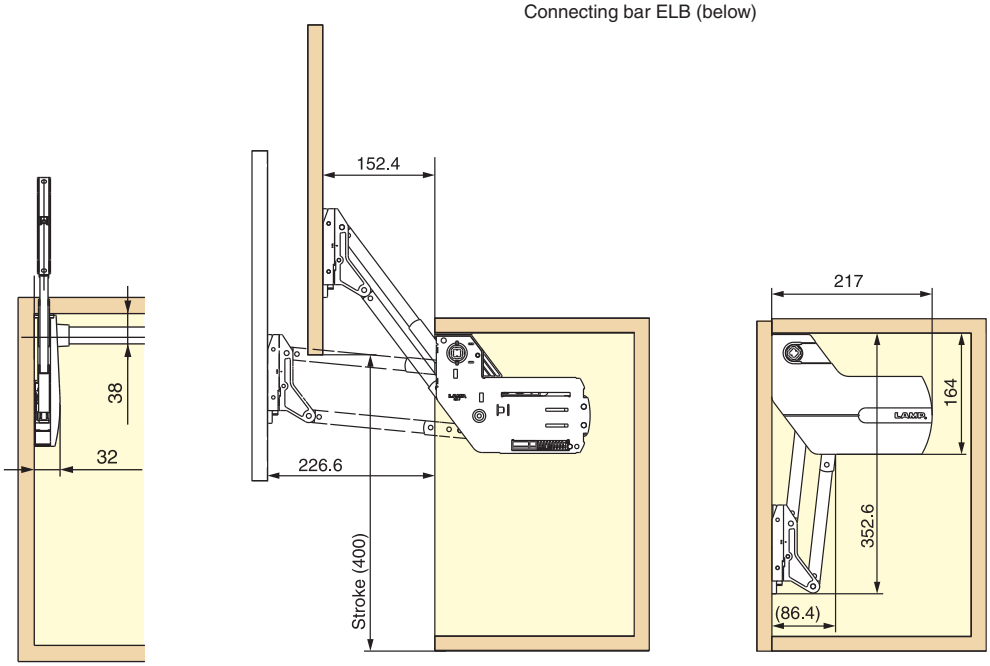
- For swing lift-up doors.
- Lift-assist mechanism for extra-light opening.
- Door stays in any desired position.
- Damper equipped for soft & silent closing at the end.
- Simple installation by the mounting guide plate and slide on the main body.
- No hinges are required.
- Connecting bar stays on the top for maximum space inside the cabinet.
- Recommended door size and weight :
  - Width : Max. 1800 mm
  - Height : 390-500 mm
  - Weight : 5-11 kg

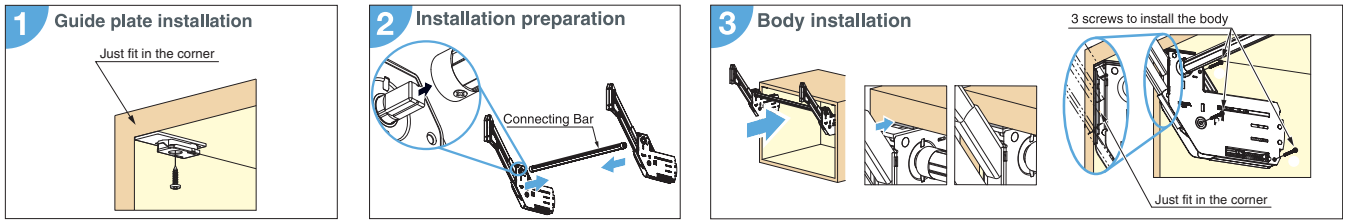
■Parts Included

- Mounting plate for main body (2 pcs)
- Guide plate (2 pcs)
- Countersunk head tapping screw 3.5×38 for main body (6 pcs)
- Binding head tapping screw 3.5×15 for mounting plate (6 pcs)

■Sold Separately

Connecting bar ELB (below)





Item Code	Item Name	Door Weight	Material	Finish/Colour	Weight	Carton
180-022-312	SLU-ELAN S4	5.0-6.5 kg	Aluminium Alloy, ABS	Anodized, Light Grey	3.0 kg	5 sets
180-022-313	SLU-ELAN L4	6.5-8.0 kg	Aluminium Alloy, ABS	Anodized, Light Grey	3.0 kg	5 sets
180-022-314	SLU-ELAN M4	8.0-9.5 kg	Aluminium Alloy, ABS	Anodized, Light Grey	3.1 kg	5 sets
180-022-315	SLU-ELAN H4	9.5-11.0 kg	Aluminium Alloy, ABS	Anodized, Light Grey	3.2 kg	5 sets

*Inside cabinet height is Min. 360 mm / *Door weight includes handle.

■ Connecting Bar (Sold Separately)

Item Code	Item Name	Cabinet Width	Cabinet Inside Width	Weight	Carton
180-022-319	ELB-480	600 mm	556-566 mm	184 g	5 pcs
180-022-320	ELB-780	900 mm	856-866 mm	298 g	5 pcs
180-022-321	ELB-1080	1200 mm	1156-1166 mm	411 g	5 pcs
180-022-322	ELB-1380	1500 mm	1456-1466 mm	526 g	5 pcs
180-026-323	ELB-1680	1800 mm	1756-1766 mm	650 g	5 pcs

*For other dimensions, the bar can be cut on site.

BI-FOLD LIFT ASSIST STAY

Lapcon STEEL

HBF-ELAN



■Features

- Bi-fold door mechanism assists smooth open & close motion.
- Easy installation by using a paper template and multiple adjustments.
- Recommended door size and weight (2 doors/cabinet):
  - Width : Max.1200 mm
  - Height : 320-370 mm/Door
  - Weight : 2.5-6.5 kg/Door

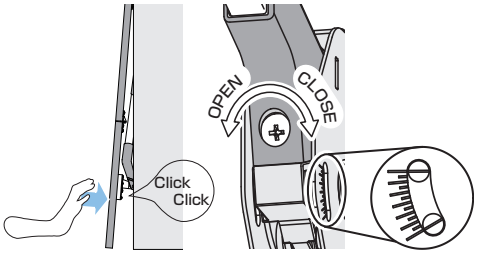
■Parts Included

- Mounting plate (1 pair)
- Centre hinge (2 pcs)
- Paper template
- Countersunk head tapping screw 3.5×38 for main body (6 pcs)
- Binding head tapping screw 3.5×15 for centre hinge (12 pcs)
- Binding head tapping screw 3.5×27 for mounting plate (4 pcs)
- Truss head screw M4×5 for mounting plate (2 pcs)

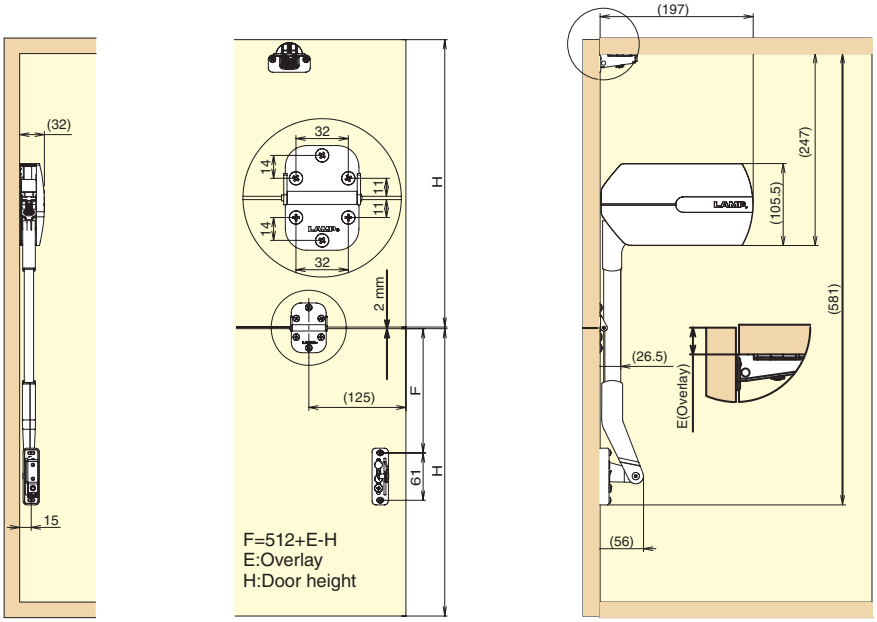
■Sold Separately

- Concealed hinge 120-34/19, 120-34/14, 120-34/9 for 120° opening (P.378～381)
- Mounting plate 100 series for 120° opening (P.391～392)

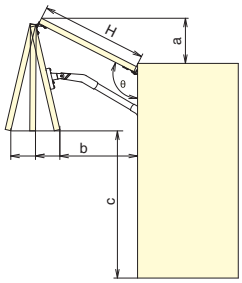
■Multiple Adjustments



One-touch closed adjustment　　Door angle adjustment



■Opening Dimensions



	H: Door Height								
	320			350			370		
Opening Angle	a	b	c	a	b	c	a	b	c
105°	58	364	341	65	348	373	69	314	399
110°	85	364	369	93	344	402	99	303	431
120°	134	359	424	148	330	459	157	270	492

Item Code	Item Name	Door Weight	Material	Finish/Colour	Weight	Carton
180-024-608	HBF-ELAN-LL	2.5-3.3 kg	Aluminium Alloy, ABS	Anodized/Light Grey	2.6 kg	5 sets
180-024-609	HBF-ELAN-ML	3.3-4.1 kg	Aluminium Alloy, ABS	Anodized/Light Grey	2.6 kg	5 sets
180-024-610	HBF-ELAN-MM	4.1-4.9 kg	Aluminium Alloy, ABS	Anodized/Light Grey	2.6 kg	5 sets
180-024-611	HBF-ELAN-HM	4.9-5.7 kg	Aluminium Alloy, ABS	Anodized/Light Grey	2.6 kg	5 sets
180-024-612	HBF-ELAN-HH	5.7-6.5 kg	Aluminium Alloy, ABS	Anodized/Light Grey	2.6 kg	5 sets

*2 doors are necessary for 1 cabinet.

HORIZONTAL BI-FOLDING UNIT

Lapcon STEEL **HBFN**



■Features

- Unique bi-fold door mechanism assists smooth open & close motion.
- Designed to hold the door in closed and opened position.
- Arm length adjustable for various door sizes.
- No tracks or guides required.
- Handle position can be at the bottom of the door.

■Remarks

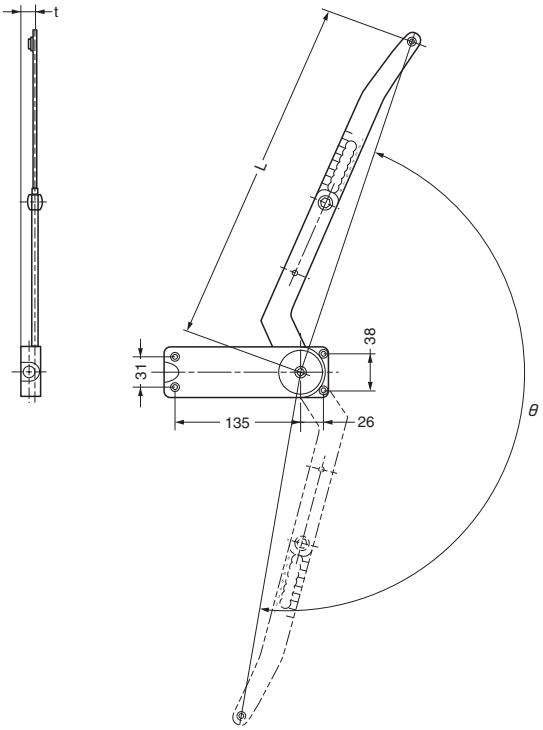
1 set of arm mounting plate necessary for 1 set of HBFN.

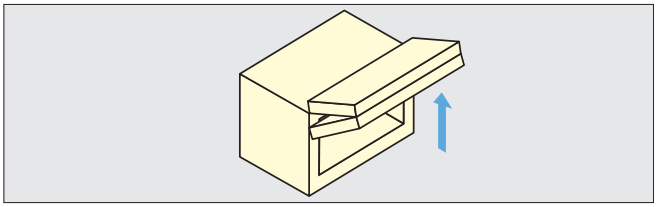
■Sold Separately

Mounting plate HBFN-SZ (P.501)

■Parts Included

- Offset hinge HBFN-CH (2 pcs)
- Binding head tapping screw 3.5×15





■Offset Hinge (2 pcs/set)

Additional hinges necessary for doors of width over 600 mm.

Item Code	Item Name	Material	Finish	Weight	Box
180-099-941	HBFN-CH	Steel	Nickel	65 g	200 pcs

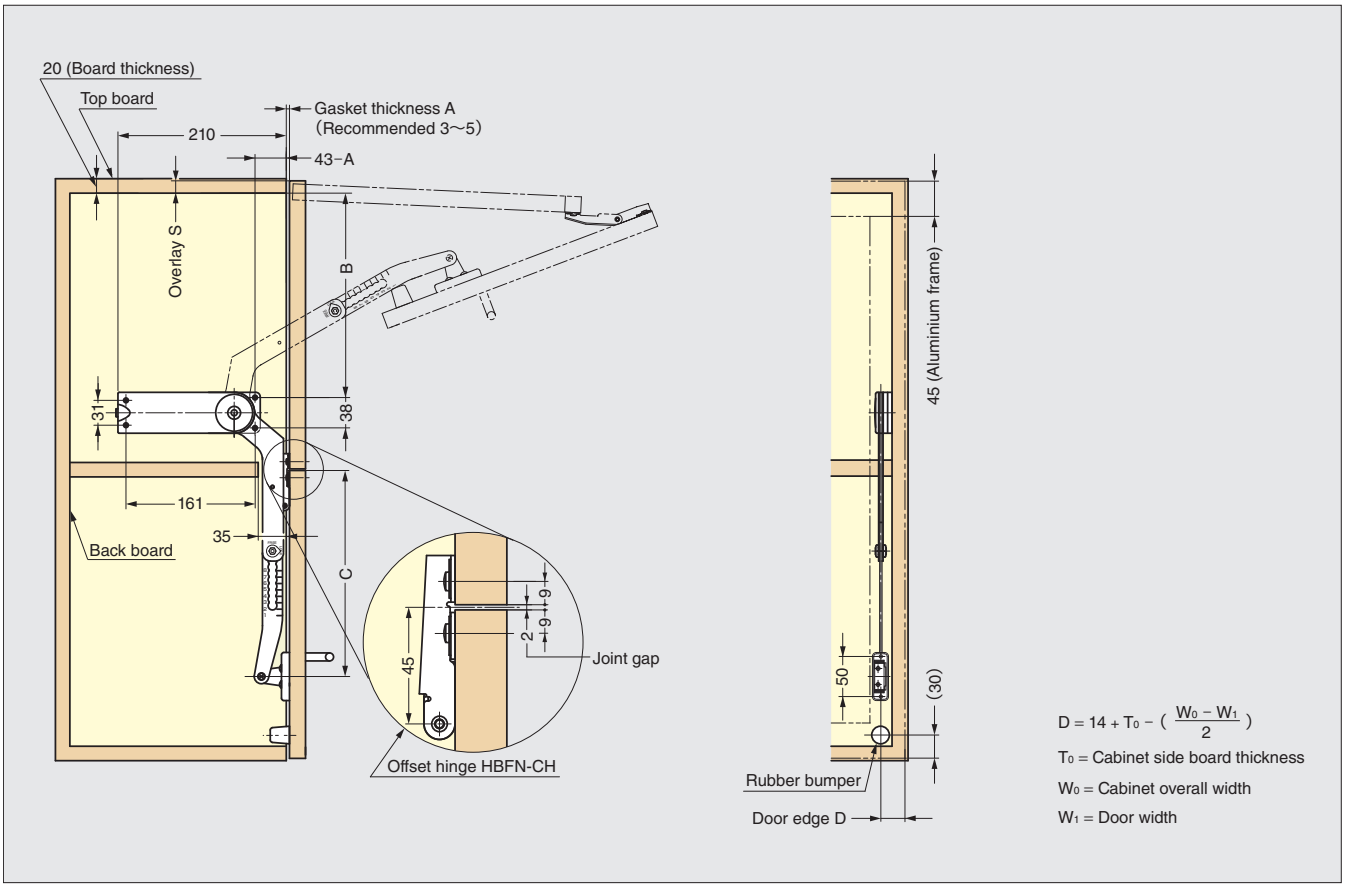
Material	Finish/Colour
ABS/Steel	Nickel/Light Grey

■Body (1 set)

*These figures below are only for 1 door. 2 doors are necessary for 1 cabinet.

Item Code	Item Name	Door Width	Door Height	Door Thickness	Door Weight	θ	L	t	Weight	Carton
180-109-615	HBFN-2M	450 ～ 900	320 ～ 370	17 ～ 20	2.5 ～ 3.5 kg	171°	299 ～ 363	14	1.5 kg	10 sets
180-109-616	HBFN-3M	450 ～ 900	320 ～ 370	17 ～ 20	3.5 ～ 4.5 kg	171°	299 ～ 363	14	1.5 kg	10 sets
180-109-617	HBFN-4M	450 ～ 900	320 ～ 370	17 ～ 20	4.5 ～ 5.5 kg	171°	299 ～ 363	14	1.6 kg	10 sets

■Installation

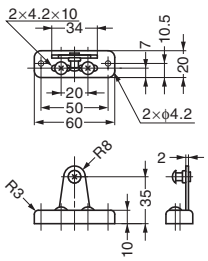


Installation Dimensions

Door Height	Upper Door Opening Angle 90°			Upper Door Opening Angle 105°		
	Arm Adjustment Position	B	C	Arm Adjustment Position	B	C
320	1	247 − S	241	4	226 − S	244
330	2	252 − S	244	5	234 − S	250
340	3	258 − S	248	6	243 − S	257
350	4	263 − S	251	7	251 − S	263
360	5	269 − S	255	8	259 − S	269
370	6	274 − S	258	9	267 − S	275

ARM MOUNTING PLATE FOR HBFN





■Features

Sold in pairs.

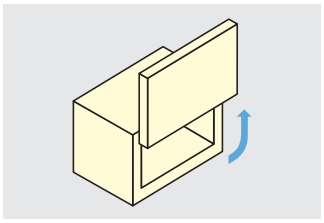
Item Code	Item Name	Application	Material	Finish	Weight	Box
180-109-618	HBFN-SZ	For Wood Door/Aluminium Frame more than 45 mm	Steel/Rubber	Nickel	44 g	100 pairs

SWING LIFT-UP STAY

Lapcon STEEL **SLUN-N**







A combination of SLUN-N and SLD

■Features

- Unique mechanism helps lift & hold the door in fully opened position.
- Adjustable mounting plate.
- Successfully passed for the 30,000 open/close private cycle test.

■Remarks

- 1 connecting bar SLUB is necessary for 1 set of SLUN-N.
- Glass frame width should be more than 75 mm.

■Parts Included

- Binding head tapping screw 3.5 × 15 for body
- Countersunk head tapping screw 3.5 × 20 for damper
- Truss head tapping screw 4.5 × 12 for connecting bar

■Sold Separately

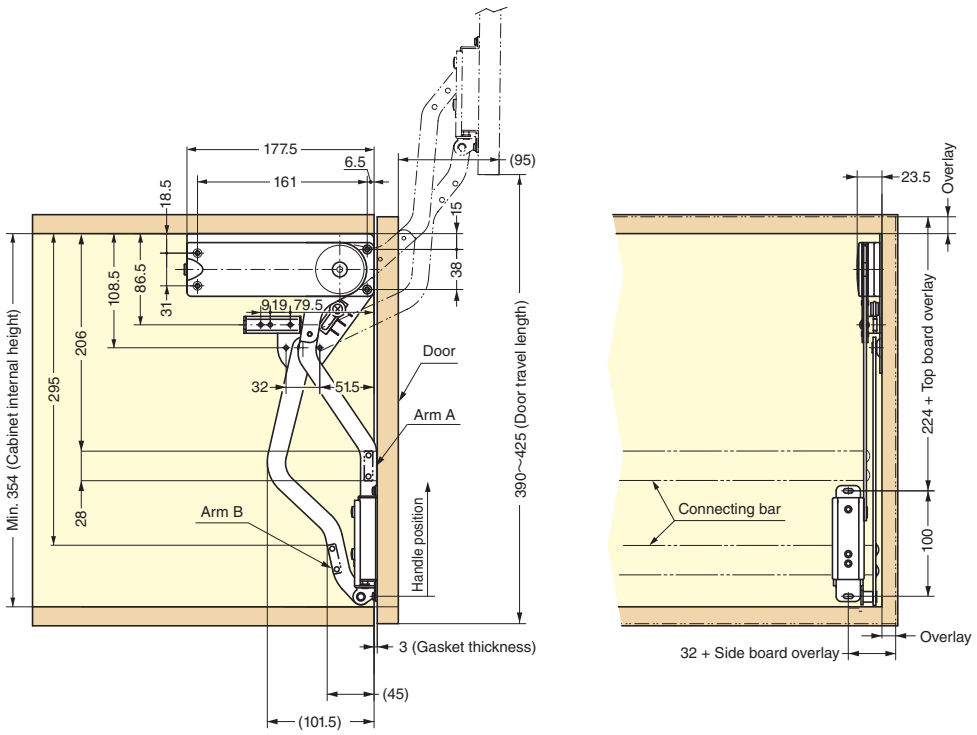
Connecting bar SLUB

If the side board thickness is over 15 mm, the connecting bar should be cut according to the below formula.

Arm A: Connecting bar length = Overall cabinet width − (Side board thickness ×2) − 35

Arm B: Connecting bar length = Overall cabinet width − (Side board thickness ×2) − 19

■ Installation



■Body (1 set)

Item Code	Item Name	Material	Finish/Colour	Door Width	Door Height	Door Weight	Weight	Carton
180-020-832	SLUN-3N	ABS/Steel	Chrome/Grey	600 ～ 900	390 ～ 450	2.8 ～ 3.8 kg	2.0 kg	5 sets
180-020-833	SLUN-4N	ABS/Steel	Chrome/Grey	600 ～ 900	390 ～ 450	3.8 ～ 4.8 kg	2.0 kg	5 sets
180-020-834	SLUN-5N	ABS/Steel	Chrome/Grey	600 ～ 900	390 ～ 450	4.8 ～ 5.8 kg	2.1 kg	5 sets

■Connecting Bar (Sold Separately)

Item Code	Item Name	Applicable Door	Mounting Position	Cabinet Width ※	Length	Weight	Carton
180-120-287	SLUB-535	Wooden Door	Arm A	600	535	191 g	10 pcs
180-104-088	SLUB-551	Glass Frame Door	Arm B	600	551	196 g	10 pcs
180-120-288	SLUB-835	Wooden Door	Arm A	900	835	308 g	10 pcs
180-100-131	SLUB-851	Glass Frame Door	Arm B	900	851	312 g	10 pcs

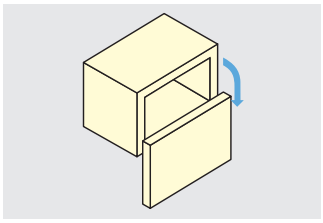
※The side board thickness is 15 mm.

SWING DOWN STAY

SLD







■Features

- Unique swing down mechanism holds the door in fully opened position.
- Patented LAPCON technology provides a smooth and quiet motion.
- Sleek & compact design.
- Easy installation.
- Adjustable mounting plate.
- Successfully passed for the 30,000 open/close private cycle test.

■Remarks

1 connecting bar SLUB is necessary for 1 set of SLD.

■Parts Included

- Binding head tapping screw 3.5×15 for body
- Countersunk head tapping screw 3.5×20 for damper
- Truss head tapping screw 4.5×12 for connecting bar

■Sold Separately

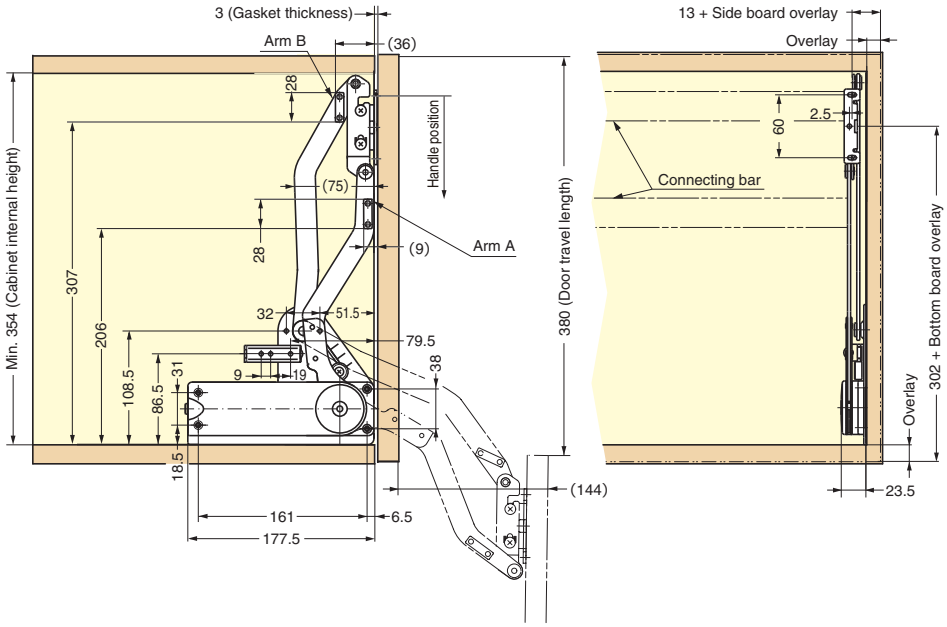
Connecting bar SLUB

If the side board thickness is over 15 mm, the connecting bar should be cut according to the below formula.

Arm A: Connecting bar length = Overall cabinet width − (Side board thickness ×2) − 35

Arm B: Connecting bar length = Overall cabinet width − (Side board thickness ×2) − 19

■ Installation



■Body (1 set)

Item Code	Item Name	Material	Finish/Colour	Door Width	Door Height	Door Weight	Weight	Carton
180-020-848	SLD-3	ABS/Steel	Chrome/Grey	600 ～ 900	360 ～ 400	3 ～ 4 kg	1.9 kg	5 sets
180-020-849	SLD-4	ABS/Steel	Chrome/Grey	600 ～ 900	360 ～ 400	4 ～ 5 kg	1.9 kg	5 sets
180-020-850	SLD-5	ABS/Steel	Chrome/Grey	600 ～ 900	360 ～ 400	5 ～ 6 kg	2.0 kg	5 sets

■Connecting Bar (Sold Separately)

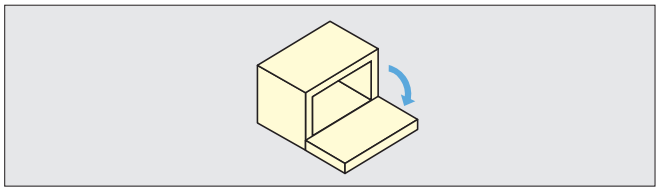
Item Code	Item Name	Applicable Door	Mounting Position	Cabinet Width ※	Length	Weight	Carton
180-120-287	SLUB-535	Wooden Door	Arm A	600	535	191 g	10 pcs
180-104-088	SLUB-551	Glass Frame Door	Arm B	600	551	196 g	10 pcs
180-120-288	SLUB-835	Wooden Door	Arm A	900	835	308 g	10 pcs
180-100-131	SLUB-851	Glass Frame Door	Arm B	900	851	312 g	10 pcs

※The side board thickness is 15 mm.

HEAVY DUTY SOFT-DOWN STAY

Lapcon STEEL **HDS-10**





■Features

- For downward-opening doors.
- Can be used with concealed, piano, or butt hinges.
- Designed to hold the door in closed position.
- Used in pairs.

■Applicable Range

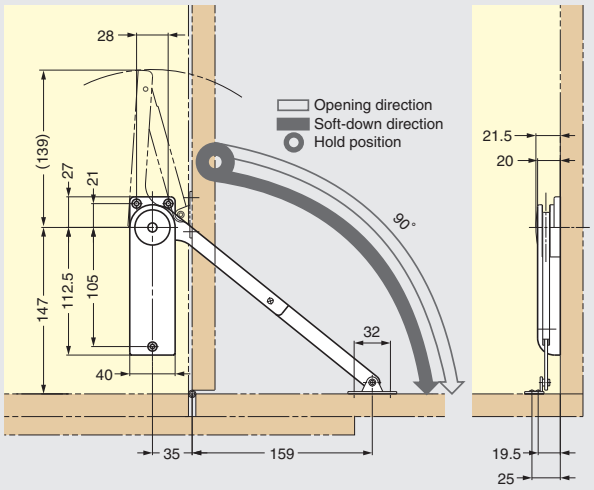
Torque	Model	Qty
13.7～19.5 N·m	K	1 pair
19.6～24.4 N·m	M	1 pair
24.5～29.4 N·m	H	1 pair

■Parts Included

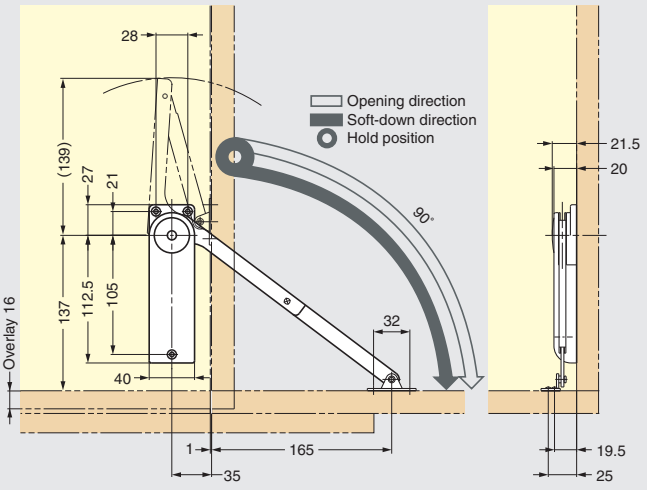
- Mounting plate
- Binding head tapping screw 3.5×15

■Installation (Opening Angle 90˚)

With single knuckle hinge



With drop hinge

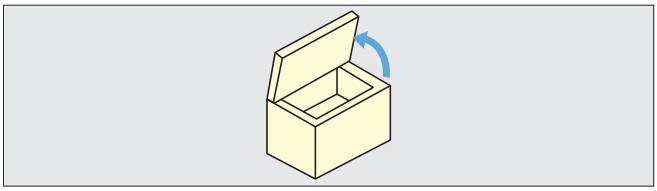


Item Code	Item Name	Type	Material	Finish/Colour	Model	Torque Moment/pair	Weight	Carton
180-104-067	HDS-10KL-BL	Left	ABS/Steel	Nickel/Black	K	13.7～ 19.5 N·m (140～ 199 kgf·cm)	292 g	40 pcs
180-104-066	HDS-10KR-BL	Right	ABS/Steel	Nickel/Black	K		292 g	40 pcs
180-104-073	HDS-10KL-WT	Left	ABS/Steel	Nickel/White	K		292 g	40 pcs
180-104-072	HDS-10KR-WT	Right	ABS/Steel	Nickel/White	K		292 g	40 pcs
180-104-069	HDS-10ML-BL	Left	ABS/Steel	Nickel/Black	M	19.6～ 24.4 N·m (200～ 249 kgf·cm)	302 g	40 pcs
180-104-068	HDS-10MR-BL	Right	ABS/Steel	Nickel/Black	M		302 g	40 pcs
180-104-075	HDS-10ML-WT	Left	ABS/Steel	Nickel/White	M		302 g	40 pcs
180-104-074	HDS-10MR-WT	Right	ABS/Steel	Nickel/White	M		302 g	40 pcs
180-104-071	HDS-10HL-BL	Left	ABS/Steel	Nickel/Black	H	24.5～ 29.4 N·m (250～ 300 kgf·cm)	308 g	40 pcs
180-104-070	HDS-10HR-BL	Right	ABS/Steel	Nickel/Black	H		308 g	40 pcs
180-104-077	HDS-10HL-WT	Left	ABS/Steel	Nickel/White	H		308 g	40 pcs
180-104-076	HDS-10HR-WT	Right	ABS/Steel	Nickel/White	H		308 g	40 pcs

HEAVY DUTY SOFT-DOWN STAY

Lapcon STEEL **HDS-20**





■Features

- For top-opening doors.
- Can be used with concealed, piano, or butt hinges.
- Designed to hold the door in fully opened position.
- Used in pairs.

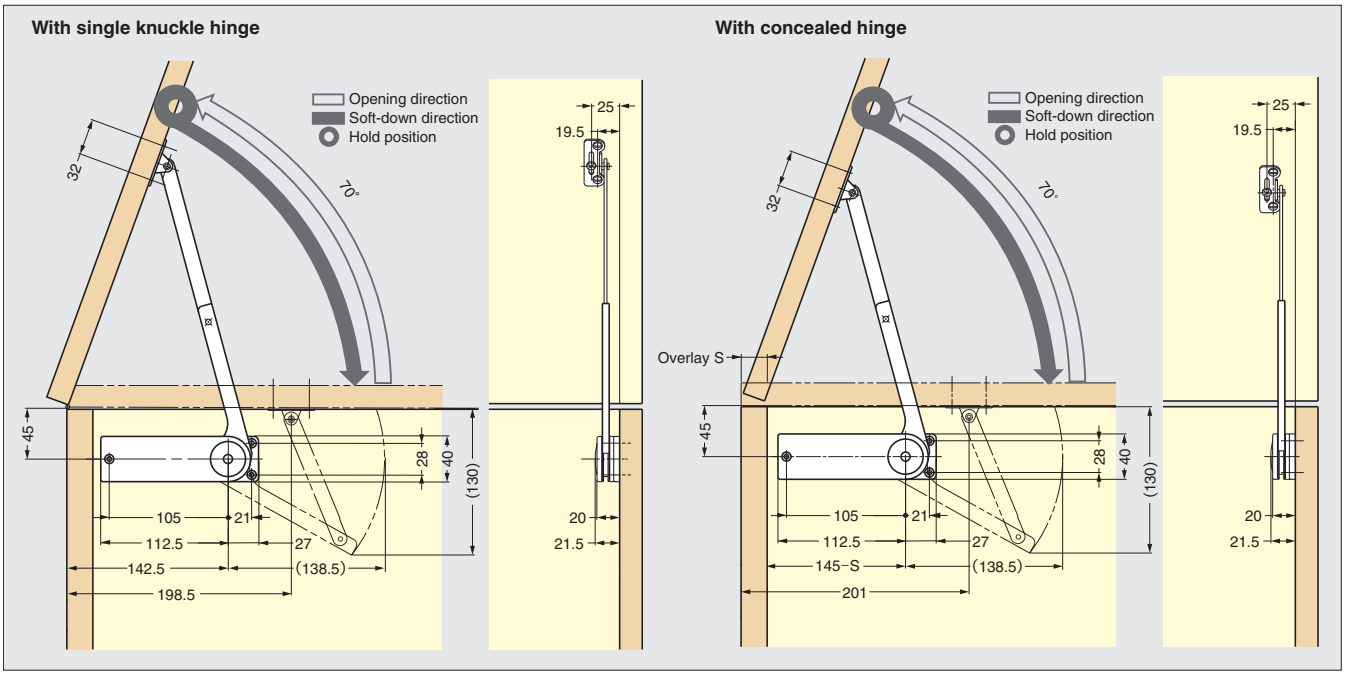
■Applicable Range

Torque	Model	Qty
13.7～19.5 N·m	K	1 pair
19.6～24.4 N·m	M	1 pair
24.5～29.4 N·m	H	1 pair

■Parts Included

- Mounting plate
- Binding head tapping screw 3.5×15

■Installation (Opening Angle 70°)

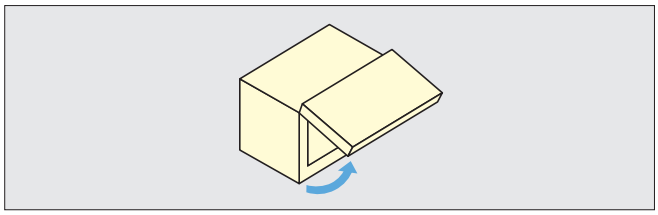


Item Code	Item Name	Type	Material	Finish/Colour	Model	Torque Moment/pair	Weight	Carton
180-109-237	HDS-20KL-BL	Left	ABS/Steel	Nickel/Black	K	13.7～19.5 N·m (140～199 kgf·cm)	284 g	40 pcs
180-109-236	HDS-20KR-BL	Right	ABS/Steel	Nickel/Black	K		284 g	40 pcs
180-109-243	HDS-20KL-WT	Left	ABS/Steel	Nickel/White	K		284 g	40 pcs
180-109-242	HDS-20KR-WT	Right	ABS/Steel	Nickel/White	K		284 g	40 pcs
180-109-239	HDS-20ML-BL	Left	ABS/Steel	Nickel/Black	M	19.6～24.4 N·m (200～249 kgf·cm)	288 g	40 pcs
180-109-238	HDS-20MR-BL	Right	ABS/Steel	Nickel/Black	M		288 g	40 pcs
180-109-245	HDS-20ML-WT	Left	ABS/Steel	Nickel/White	M		288 g	40 pcs
180-109-244	HDS-20MR-WT	Right	ABS/Steel	Nickel/White	M		288 g	40 pcs
180-109-241	HDS-20HL-BL	Left	ABS/Steel	Nickel/Black	H	24.5～29.4 N·m (250～300 kgf·cm)	299 g	40 pcs
180-109-240	HDS-20HR-BL	Right	ABS/Steel	Nickel/Black	H		299 g	40 pcs
180-109-247	HDS-20HL-WT	Left	ABS/Steel	Nickel/White	H		299 g	40 pcs
180-109-246	HDS-20HR-WT	Right	ABS/Steel	Nickel/White	H		299 g	40 pcs

HEAVY DUTY SOFT-DOWN STAY

Lapcon STEEL **HDS-30**





■Features

- For upward-opening doors.
- Can be used with concealed, piano, or butt hinges.
- Designed to hold the door in closed and opened position.
- Used in pairs.

■Applicable Range

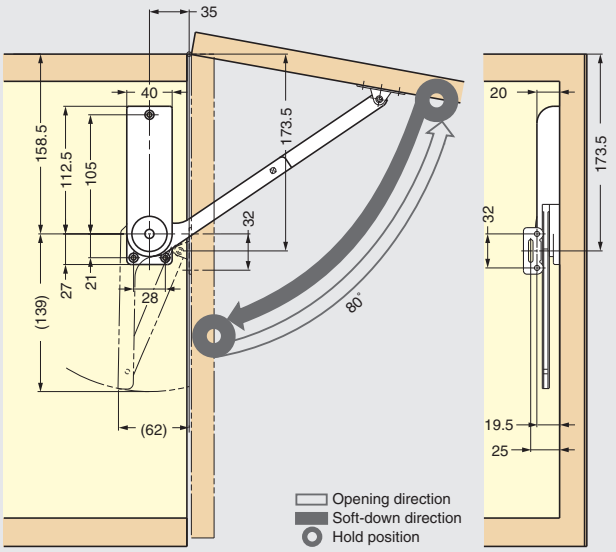
Torque	Model	Qty
13.7～19.5 N·m	K	1 pair
19.6～24.4 N·m	M	1 pair
24.5～29.4 N·m	H	1 pair

■Parts Included

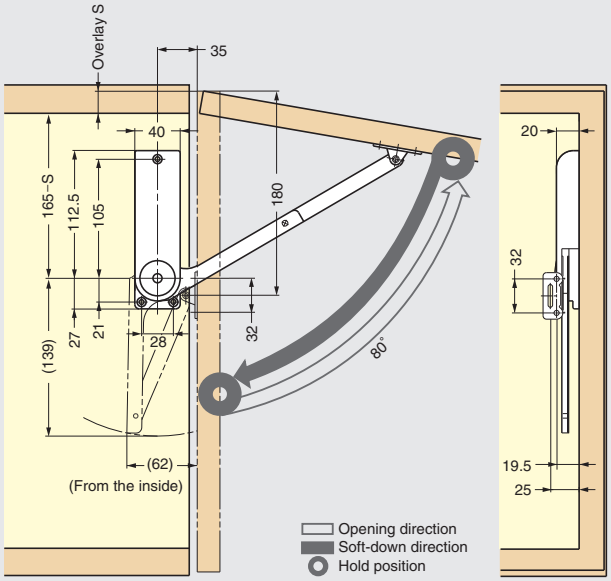
- Mounting plate
- Binding head tapping screw 3.5×15

■Installation (Opening Angle 80°)

With single knuckle hinge



With concealed hinge



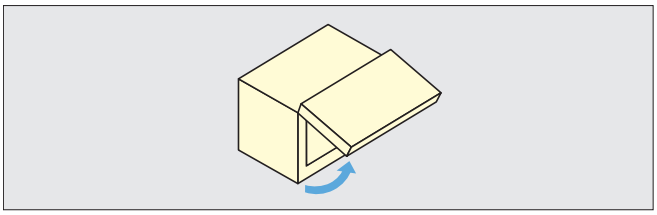
Item Code	Item Name	Type	Material	Finish/Colour	Model	Torque Moment/pair	Weight	Carton
180-104-079	HDS-30KL-BL	Left	ABS/Steel	Nickel/Black	K	13.7～ 19.5 N·m (140～199 kgf·cm)	276 g	40 pcs
180-104-078	HDS-30KR-BL	Right	ABS/Steel	Nickel/Black	K		276 g	40 pcs
180-109-271	HDS-30KL-WT	Left	ABS/Steel	Nickel/White	K		276 g	40 pcs
180-109-270	HDS-30KR-WT	Right	ABS/Steel	Nickel/White	K		276 g	40 pcs
180-104-081	HDS-30ML-BL	Left	ABS/Steel	Nickel/Black	M	19.6～ 24.4 N·m (200～249 kgf·cm)	294 g	40 pcs
180-104-080	HDS-30MR-BL	Right	ABS/Steel	Nickel/Black	M		294 g	40 pcs
180-109-273	HDS-30ML-WT	Left	ABS/Steel	Nickel/White	M		294 g	40 pcs
180-109-272	HDS-30MR-WT	Right	ABS/Steel	Nickel/White	M		294 g	40 pcs
180-104-083	HDS-30HL-BL	Left	ABS/Steel	Nickel/Black	H	24.5～ 29.4 N·m (250～300 kgf·cm)	300 g	40 pcs
180-104-082	HDS-30HR-BL	Right	ABS/Steel	Nickel/Black	H		300 g	40 pcs
180-109-275	HDS-30HL-WT	Left	ABS/Steel	Nickel/White	H		300 g	40 pcs
180-109-274	HDS-30HR-WT	Right	ABS/Steel	Nickel/White	H		300 g	40 pcs

HEAVY DUTY SOFT-DOWN STAY

Lapcon STEEL

HDSN-30





■Features

- For upward-opening doors.
- Designed to hold the door in closed and opened position.
- Arm bracket for wood and aluminium frame available. Specify when ordering.
- Used in pairs.

■Applicable Range

Torque		Model	Qty
Opening Angle 90°	Opening Angle 80°		
13.7～17.5 N·m	13.7～19.5 N·m	K	1 pair
17.6～21.5 N·m	19.6～24.4 N·m	M	1 pair
21.6～25.4 N·m	24.5～29.3 N·m	H	1 pair
25.5～29.4 N·m	29.4～34.3 N·m	S	1 pair

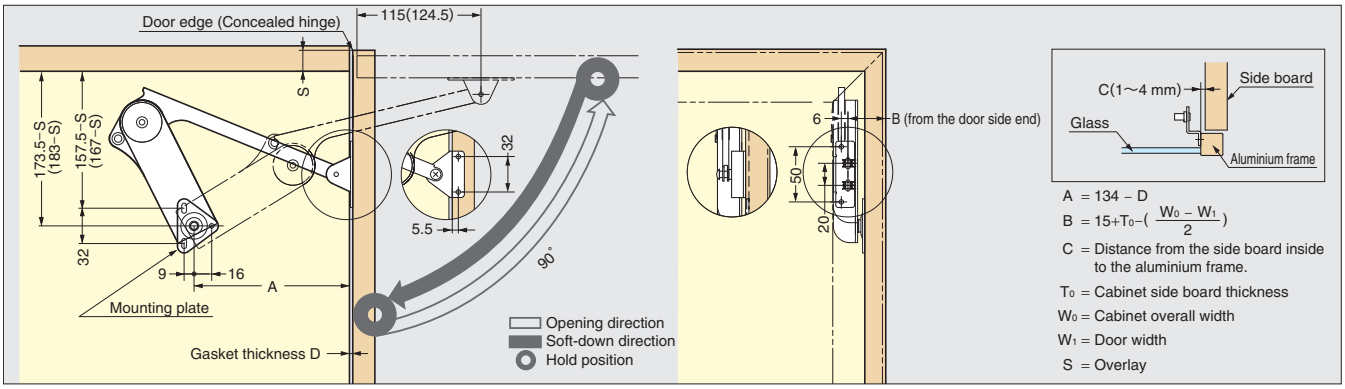
■ Parts Included

- Mounting plate
- Binding head tapping screw 3.5×15

■ Sold Separately

- Arm mounting plate HDSN-SZ (below)
- Arm mounting plate HDSN-AZ for 20 mm aluminium frame (below)

■Installation with HDSN-SZ (Opening Angle 90°)

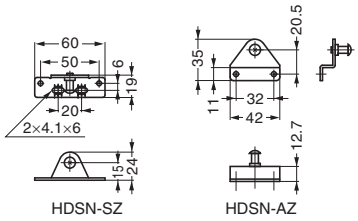


Item Code	Item Name	Type	Material	Finish/Colour	Model	Torque Moment/pair		Weight	Carton
						Opening Angle 90°	Opening Angle 80°		
180-109-601	HDSN-30KL	Left	ABS/Steel	Nickel/Light Grey	K	13.7～17.5 N・m	13.7～19.5 N・m	366 g	40 pcs
180-109-602	HDSN-30KR	Right	ABS/Steel	Nickel/Light Grey	K	(140～179 kgf・cm)	(140～199 kgf・cm)	366 g	40 pcs
180-109-603	HDSN-30ML	Left	ABS/Steel	Nickel/Light Grey	M	17.6～21.5 N・m	19.6～24.4 N・m	415 g	40 pcs
180-109-604	HDSN-30MR	Right	ABS/Steel	Nickel/Light Grey	M	(180～219 kgf・cm)	(200～249 kgf・cm)	415 g	40 pcs
180-109-605	HDSN-30HL	Left	ABS/Steel	Nickel/Light Grey	H	21.6～25.4 N・m	24.5～29.3 N・m	415 g	40 pcs
180-109-606	HDSN-30HR	Right	ABS/Steel	Nickel/Light Grey	H	(220～259 kgf・cm)	(250～299 kgf・cm)	415 g	40 pcs
180-109-607	HDSN-30SL	Left	ABS/Steel	Nickel/Light Grey	S	25.5～29.4 N・m	29.4～34.3 N・m	415 g	40 pcs
180-109-608	HDSN-30SR	Right	ABS/Steel	Nickel/Light Grey	S	(260～300 kgf・cm)	(300～350 kgf・cm)	415 g	40 pcs

ARM MOUNTING PLATE FOR HDSN

HDSN-SZ, HDSN-AZ





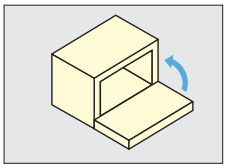
Item Code	Item Name	Application	Material	Finish	Weight	Box	Carton
180-109-609	HDSN-SZ	For Wood Door/Aluminium Frame more than 45 mm	Steel	Nickel	24 g	120 pcs	480 pcs
180-109-610	HDSN-AZ	For 20 mm width Aluminium Frame	Steel	Nickel	25 g	120 pcs	480 pcs

SELF-CLOSE STAY

Lapcon STEEL

HDS-10S





■Features

- For downward opening flaps.
- Self-closes after a small impulse.
- Used in pairs.

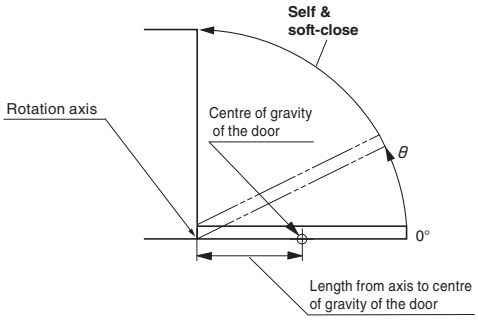
■Parts Included

- Mounting plate
- Binding head tapping screw 3.5×15

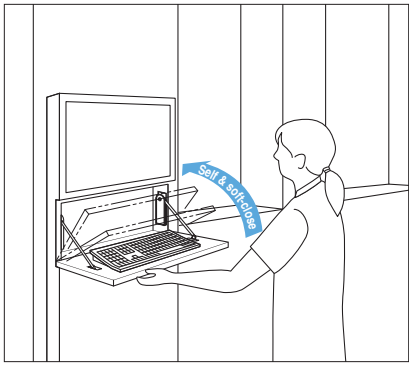
Video Link

Model	Self & Soft-close Starting Angle θ
K	5˚～35˚
M	5˚～20˚
H	5˚～20˚
S	5˚～15˚

■Self & Soft-close Starting Angle

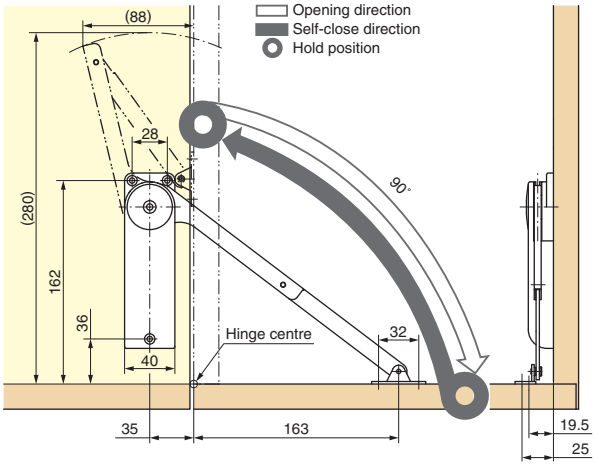


■Application Example

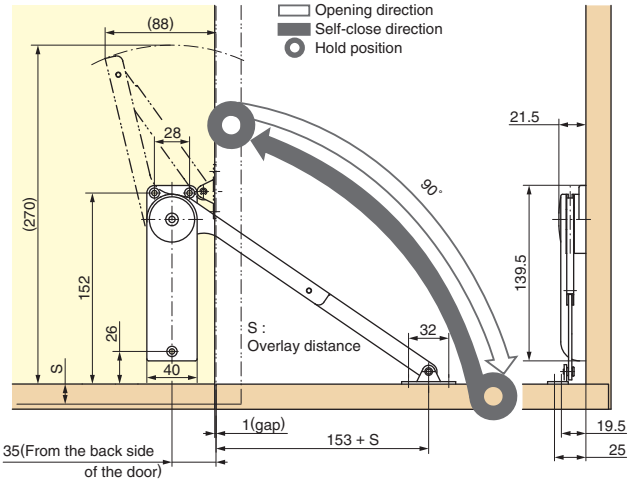


■Installation

With Piano-Butt Hinge



With Drop Hinge (SDH-001)



Item Code	Item Name	Type	Material	Finish/Colour	Model	Torque Moment/pair	Weight	Carton
180-025-872	HDS-10S-KL-BL	Left	ABS/Steel	Nickel/Black	K	5.9～ 9.3 N・m (60～ 95 kgf・cm)	292 g	40 pcs
180-026-723	HDS-10S-KL-WT	Left	ABS/Steel	Nickel/White	K		292 g	40 pcs
180-025-873	HDS-10S-KR-BL	Right	ABS/Steel	Nickel/Black	K		292 g	40 pcs
180-026-724	HDS-10S-KR-WT	Right	ABS/Steel	Nickel/White	K		292 g	40 pcs
180-025-874	HDS-10S-ML-BL	Left	ABS/Steel	Nickel/Black	M	9.3～12.7 N・m (95～130 kgf・cm)	301 g	40 pcs
180-026-725	HDS-10S-ML-WT	Left	ABS/Steel	Nickel/White	M		301 g	40 pcs
180-025-875	HDS-10S-MR-BL	Right	ABS/Steel	Nickel/Black	M		301 g	40 pcs
180-026-726	HDS-10S-MR-WT	Right	ABS/Steel	Nickel/White	M		301 g	40 pcs
180-025-876	HDS-10S-HL-BL	Left	ABS/Steel	Nickel/Black	H	10.8～15.7 N・m (110～160 kgf・cm)	309 g	40 pcs
180-026-727	HDS-10S-HL-WT	Left	ABS/Steel	Nickel/White	H		309 g	40 pcs
180-025-877	HDS-10S-HR-BL	Right	ABS/Steel	Nickel/Black	H		309 g	40 pcs
180-026-728	HDS-10S-HR-WT	Right	ABS/Steel	Nickel/White	H		309 g	40 pcs
180-025-902	HDS-10S-SL-BL	Left	ABS/Steel	Nickel/Black	S	13.7～17.6 N・m (140～180 kgf・cm)	312 g	40 pcs
180-026-729	HDS-10S-SL-WT	Left	ABS/Steel	Nickel/White	S		312 g	40 pcs
180-025-903	HDS-10S-SR-BL	Right	ABS/Steel	Nickel/Black	S		312 g	40 pcs
180-026-730	HDS-10S-SR-WT	Right	ABS/Steel	Nickel/White	S		312 g	40 pcs

SELF-OPENING STAY

Lapcon STEEL

HDS-20S



■Features

- Opens automatically after a small impulse.
- Ideal for top-opening lids.
- Holds the door at closed position.
- Slim design and mounting position maximizes inside space.

■Applicable Range

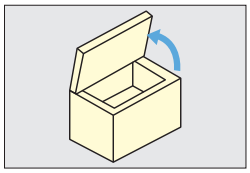
Torque Moment	Model	Qty
6.9～10.8 N・m	H	1 pair
10.9～14.7 N・m	S	1 pair

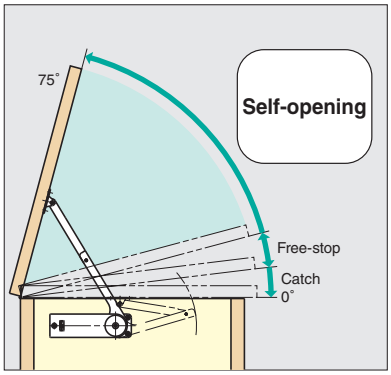
■Remarks

Used in pairs.

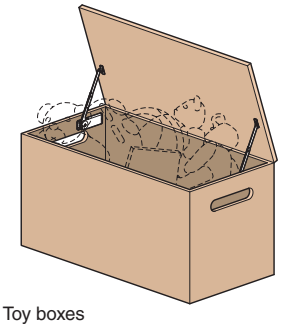
■Parts Included

- Mounting plate
- Binding tapping screw
  3.5×15

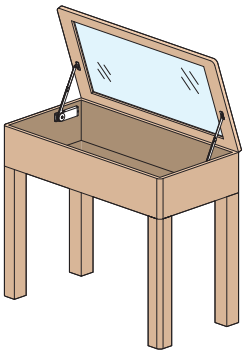




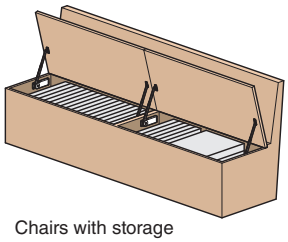
■Application Example



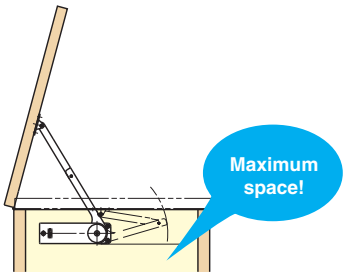
Toy boxes



Display cabinets

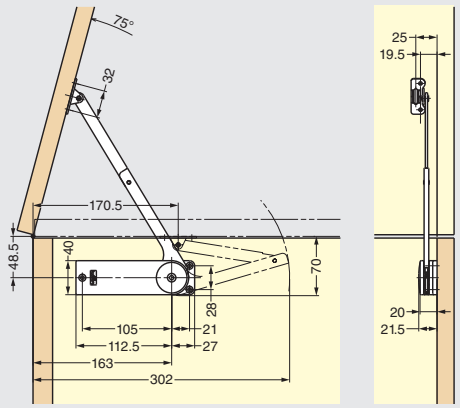


Chairs with storage

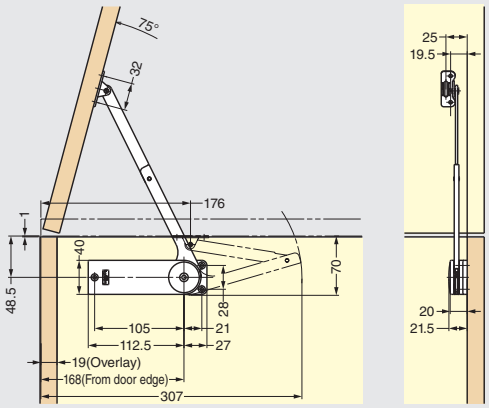


■Installation

With a piano hinge



With a concealed hinge



Item Code	Item Name	Type	Material	Finish/Colour	Model	Torque Moment/pair	Weight	Carton
180-029-751	HDS-20S-HL-BL	Left	ABS/Steel	Nickel/Black	H	6.9～ 10.8 N·m (70～ 110 kgf·cm)	298 g	40 pcs
180-029-752	HDS-20S-HR-BL	Right						
180-029-753	HDS-20S-HL-WT	Left		Nickel/White				
180-029-754	HDS-20S-HR-WT	Right						
180-029-755	HDS-20S-SL-BL	Left		Nickel/Black	S	10.9～ 14.7 N·m (111～ 150 kgf·cm)	311 g	40 pcs
180-029-756	HDS-20S-SR-BL	Right						
180-029-757	HDS-20S-SL-WT	Left		Nickel/White				
180-029-758	HDS-20S-SR-WT	Right						

SOFT-DOWN STAY

Lapcon L=R STEEL

SDS-100, SDS-C100



■Features

- For downward-opening doors.
- Can be used with piano, butt, or drop hinges.
- Non-handed : Can be installed either on left or right side.
- SDS-C100 (with catch) is designed to hold the door in closed position.

■Torque

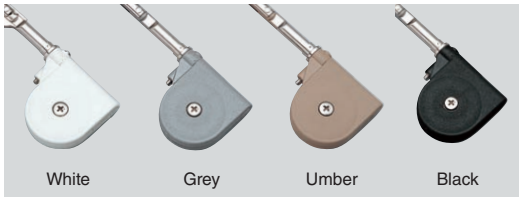
- With 1 stay
  Torque = 3.43～ 4.9 N・m (35～ 50 kgf・cm)
- With 2 stays, the torque will be doubled.

■Parts Included

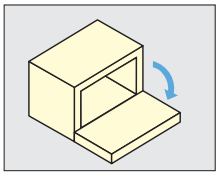
- Mounting plate SDS-A
- Countersunk head tapping screw 3.5×14

■Sold Separately

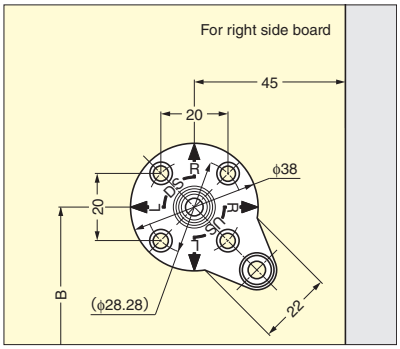
Face plate for glass doors SDS-50G (P.522)



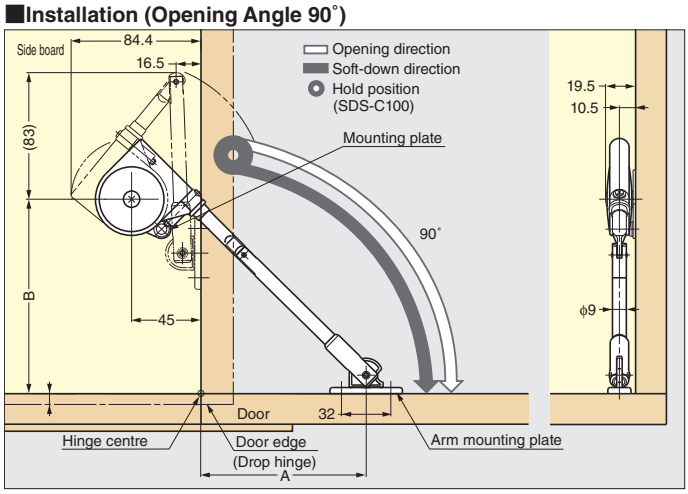




Mounting Plate SDS-A



■Installation (Opening Angle 90˚)



Hinge Type	Arm Mounting Plate Position	Mounting Plate Position
	A	B
Single Knuckle Hinge	100	135
Drop Hinge (SDH-001)	107*	126

*In case overlay 16 mm

■Body

Item Code	Item Name	Type	Material	Finish/Colour	Torque Moment/piece	Weight	Box	Carton
180-100-261	SDS-100W	Without Catch	ABS/Steel	Nickel/White	3.43～ 4.9 N・m (35～ 50 kgf・cm)	167 g	20 pcs	100 pcs
180-100-265	SDS-C100-W	With Catch	ABS/Steel	Nickel/White		167 g	20 pcs	100 pcs
180-100-262	SDS-100G	Without Catch	ABS/Steel	Nickel/Grey		167 g	20 pcs	100 pcs
180-100-266	SDS-C100-G	With Catch	ABS/Steel	Nickel/Grey		167 g	20 pcs	100 pcs
180-100-263	SDS-100U	Without Catch	ABS/Steel	Nickel/Umber		167 g	20 pcs	100 pcs
180-100-267	SDS-C100-U	With Catch	ABS/Steel	Nickel/Umber		167 g	20 pcs	100 pcs
180-027-278	SDS-100-B	Without Catch	ABS/Steel	Nickel/Black		167 g	20 pcs	100 pcs
180-100-264	SDS-C100-B	With Catch	ABS/Steel	Nickel/Black		167 g	20 pcs	100 pcs

■SDS Face Plate (Sold Separately)

Item Code	Item Name	Material	Finish/Colour	Weight	Box	Carton
180-100-260	SDS-50G-CR	Zinc Alloy (ZDC)/ABS	Chrome/Black	25 g	50 pcs	200 pcs
180-928-046	SDS-50G-BL	Zinc Alloy (ZDC)/ABS	Black/Black	25 g	50 pcs	200 pcs

SHORT ARM SOFT-DOWN STAY SDS-100-TV, SDS-C100-TV







■Features

- For downward-opening doors.
- Can be used with piano, butt, or drop hinges.
- Short arm type designed for the small height door application.
- Non-handed : Can be installed either on left or right side.
- SDS-C100-TV (with catch) is designed to hold door in closed position. SDS-100TV does not have catch. Designed to be used with the magnetic catch or touch latch.

■Torque

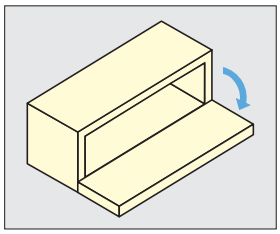
- With 1 stay
  Torque = 0.49～ 1.18 N・m (5～ 12 kgf・cm) : TV type
  1.62～ 3.68 N・m (16.5～ 37.6 kgf・cm) : TVZ type
- With 2 stays, the torque will be doubled.

■Parts Included

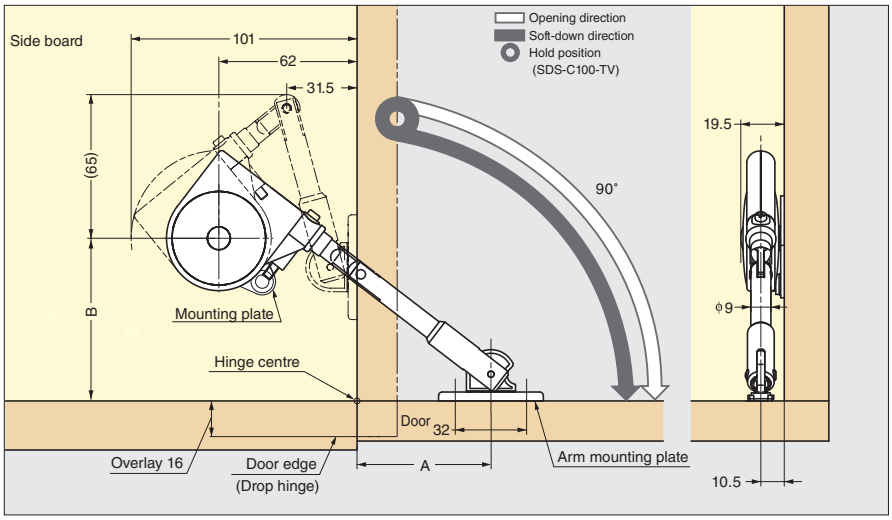
- Mounting plate SDS-A
- Countersunk head tapping screw 3.5 × 14

■Sold Separately

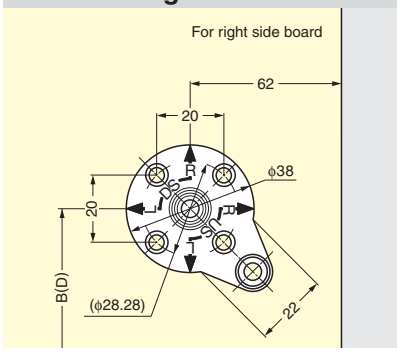
Face plate for glass doors SDS-50G (P.522)



■Installation (Opening Angle 90˚)



Mounting Plate SDS-A



Hinge Type	A	B
Single Knuckle Hinge	60	73
Drop Hinge (SDH-001)	65*	62

*In case overlay 16 mm

■Body

Item Code	Item Name	Type	Colour	Torque Moment/piece	Weight	Box	Carton
180-100-258	SDS-100W-TV	Without Catch	White	0.49～1.18 N・m (5～12 kgf・cm)	145 g	20 pcs	100 pcs
180-100-259	SDS-100B-TV	Without Catch	Black		145 g	20 pcs	100 pcs
180-100-006	SDS-C100W-TV	With Catch	White		154 g	20 pcs	100 pcs
180-109-263	SDS-C100B-TV	With Catch	Black		154 g	20 pcs	100 pcs
180-014-181	SDS-100W-TVZ	Without Catch	White	1.62～3.68 N・m (16.5～37.6 kgf・cm)	147 g	20 pcs	100 pcs
180-014-182	SDS-100B-TVZ	Without Catch	Black		147 g	20 pcs	100 pcs
180-014-183	SDS-C100W-TVZ	With Catch	White		154 g	20 pcs	100 pcs
180-014-184	SDS-C100B-TVZ	With Catch	Black		154 g	20 pcs	100 pcs

■SDS Face Plate (Sold Separately)

Item Code	Item Name	Material	Finish/Colour	Weight	Box	Carton
180-100-260	SDS-50G-CR	Zinc Alloy (ZDC)/ABS	Chrome/Black	25 g	50 pcs	200 pcs
180-928-046	SDS-50G-BL	Zinc Alloy (ZDC)/ABS	Black/Black	25 g	50 pcs	200 pcs

SOFT-DOWN STAY

Lapcon L=R STEEL

SDS-200, SDS-201, SDS-210





■Features

- For top-opening doors.
- Can be used with concealed, piano, or butt hinges.
- Non-handed : Can be installed either on left or right side.
- Designed to hold the door in fully opened position.

■Torque

- With 1 stay
  Torque = 3.43～ 4.9 N・m (35～ 50 kgf・cm)
- With 2 stays, the torque will be doubled.

■Parts Included

- Mounting plate
- Countersunk head tapping screw 3.5×14

■Sold Separately

Face plate for glass doors SDS-50G (P.522)

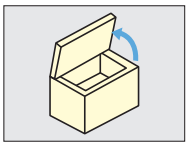




Mounting plate SDS-A for SDS-210



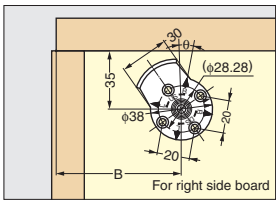
Mounting plate SDS-B for SDS-200 and SDS-201



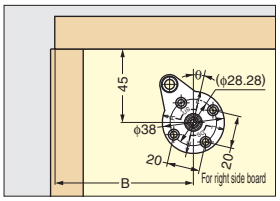
Video Link

Mounting Plate

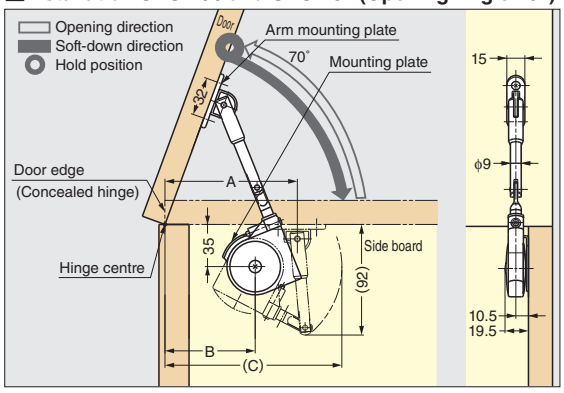
■SDS-200, SDS-201



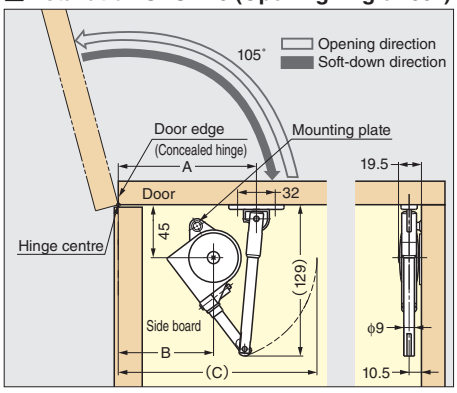
■SDS-210



■Installation SDS-200 and SDS-201 (Opening Angle 70˚)



■Installation SDS-210 (Opening Angle 105˚)



Note: For opening angle of 80˚, 90˚ and 100˚, please use SDS-C301N. For installation details, please contact your local dealer.

■Full Overlay

Item Name	A	B	C	θ
SDS-200	110	75	147	(0˚)
SDS-201	109	74	146	(0˚)
SDS-210	117.5	81	169	(5˚)
	123.5	87	175	(12˚)

■Inset

Item Name	A	B	C	θ
SDS-200	98.5	63.5	135	(10˚)
SDS-201	114	79	151	(0˚)
SDS-210	108.3	70	157.3	(15˚)

Incase door thickness 20 mm.

Material	Finish/Colour
ABS/Steel	Nickel/White (W) Grey (G) Umber (U)

■Body

Item Code	Item Name	Opening Angle	Hinge	Torque Moment/piece	Weight	Box	Carton
180-100-268	SDS-200-W	70°	Butt Hinge	3.43～ 4.9 N·m (35～50 kgf·cm)	153 g	20 pcs	100 pcs
180-100-269	SDS-200-G				153 g	20 pcs	100 pcs
180-100-270	SDS-200-U				153 g	20 pcs	100 pcs
180-100-271	SDS-201-W		Concealed Hinge		153 g	20 pcs	100 pcs
180-100-272	SDS-201-G				153 g	20 pcs	100 pcs
180-100-273	SDS-201-U				153 g	20 pcs	100 pcs
180-100-274	SDS-210-W	105°	Butt Hinge/ Concealed Hinge		159 g	20 pcs	100 pcs
180-100-275	SDS-210-G				159 g	20 pcs	100 pcs
180-100-276	SDS-210-U				159 g	20 pcs	100 pcs

■SDS Face Plate (Sold Separately)

Item Code	Item Name	Material	Finish/Colour	Weight	Box	Carton
180-100-260	SDS-50G-CR	Zinc Alloy (ZDC)/ABS	Chrome/Black	25 g	50 pcs	200 pcs
180-928-046	SDS-50G-BL	Zinc Alloy (ZDC)/ABS	Black/Black	25 g	50 pcs	200 pcs

SOFT-DOWN STAY

SDS-C301N



■Features

- For upward-opening doors.
- Can be used with concealed, piano, or butt hinges.
- SDS-C301 is designed to hold the door in closed and opened position.
- Non-handed : Can be installed either on left or right side.

■Torque

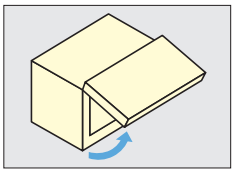
- With 1 stay
  Torque = 3.92～ 6.86 N・m (40～ 70 kgf・cm)
- With 2 stays, the torque will be doubled.

■Parts Included

- Mounting plate SDS-A
- Countersunk head tapping screw 3.5×14

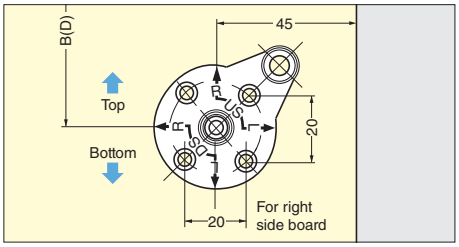
■Sold Separately

Face plate for glass doors SDS-50G (P.522)

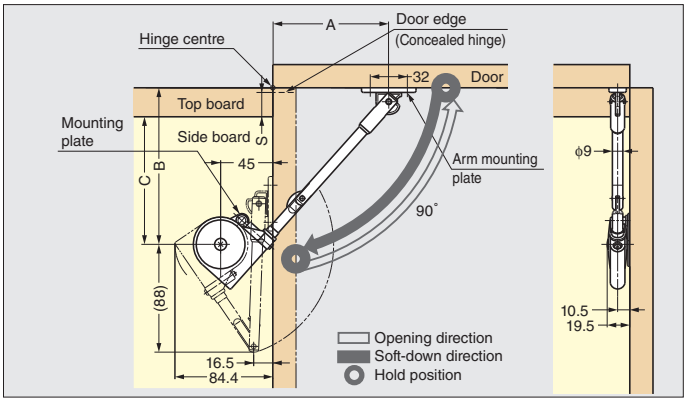




Mounting Plate SDS-A



■Installation (Opening Angle 90˚)



Overlay	Hinge Type	A	B	C
Full Overlay	Single Knuckle Hinge	100	135	—
Full Overlay	Concealed Hinge	108	—	143−S
Inset	Single Knuckle Hinge	97*	132*	—

S = Overlay

*In case the door thickness is 20 mm.

■Body

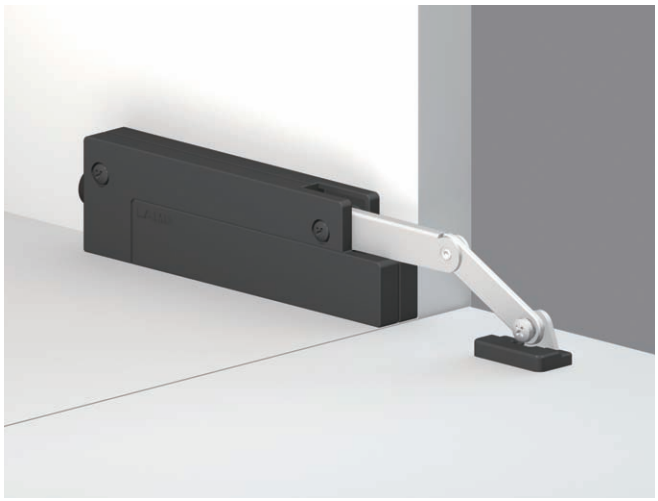
Item Code	Item Name	Material	Finish/Colour	Torque Moment/piece	Weight	Box	Carton
180-100-283	SDS-C301N W	ABS/Steel	Nickel/White	3.92～6.86 N・m (40～ 70 kgf・cm)	165 g	20	100
180-100-284	SDS-C301N G	ABS/Steel	Nickel/Grey		165 g	20	100
180-100-285	SDS-C301N BL	ABS/Steel	Nickel/Black		165 g	20	100

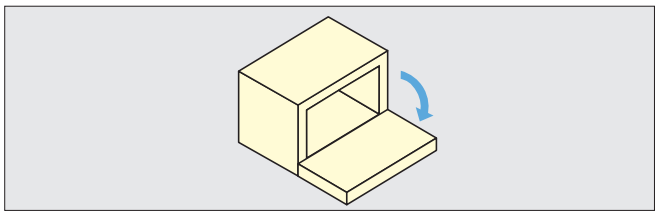
■SDS Face Plate (Sold Separately)

Item Code	Item Name	Material	Finish/Colour	Weight	Box	Carton
180-100-260	SDS-50G-CR	Zinc Alloy (ZDC)/ABS	Chrome/Black	25 g	50 pcs	200 pcs
180-928-046	SDS-50G-BL	Zinc Alloy (ZDC)/ABS	Black/Black	25 g	50 pcs	200 pcs

COMPACT SOFT-DOWN STAY

Lapcon L=R STEEL **CSD-10-TV**



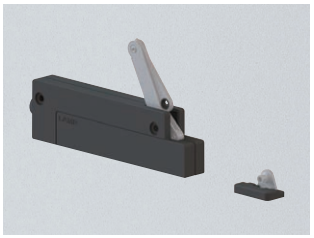


■Features

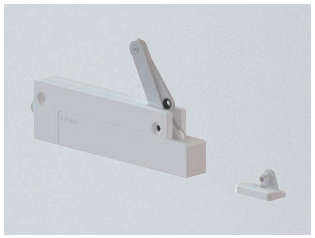
- Soft-down stay for downward-opening flap doors.
- Easy-installed just by aligning the main body to the inside cabinet corner.
- Designed for small cabinets such as audio visual furniture.
- Opening speed adjustable. The adjustment screw is located on back for clean appearance.
- Successfully passed for the 40,000 open/close private cycle test.
- CSD-10-TV does not have catch feature. Designed to be used with magnetic catch or touch latch.

■Parts Included

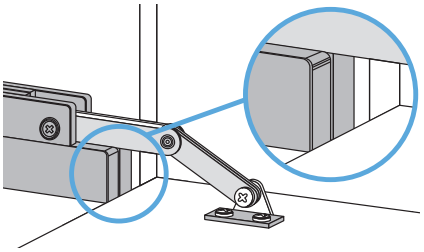
- Mounting plate and cover
- Binding head tapping screw 3.5×30 (for main body)
- Binding head tapping screw 3.5×15 (for mounting plate)



Black

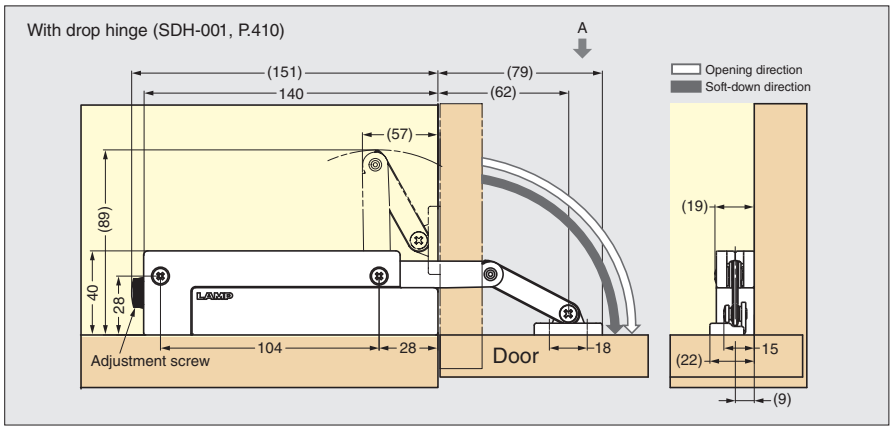


White

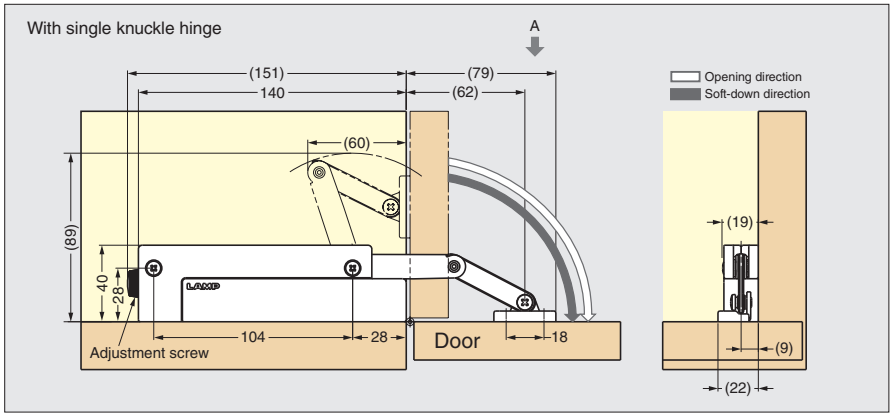


■Installation

With drop hinge (SDH-001, P.410)

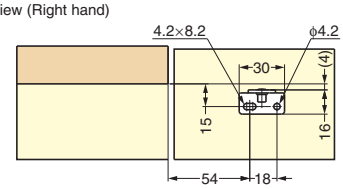


With single knuckle hinge

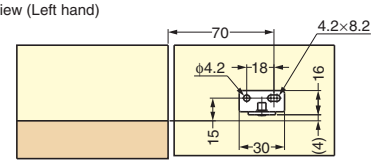


■Installation of Mounting Plate

A-view (Right hand)



A-view (Left hand)



Item Code	Item Name	Material	Finish/Colour	Torque Moment/piece	Weight	Box	Carton
180-033-207	CSD-10-TV-L-WT	ABS/Steel	Nickel/White	1.0 ～ 2.0 N・m	125 g	10 pcs	100 pcs
180-033-208	CSD-10-TV-L-BL	ABS/Steel	Nickel/Black	(10.2 ～ 20.4 kgf・cm)	125 g	10 pcs	100 pcs
180-033-209	CSD-10-TV-M-WT	ABS/Steel	Nickel/White	2.0 ～ 3.0 N・m	130 g	10 pcs	100 pcs
180-033-210	CSD-10-TV-M-BL	ABS/Steel	Nickel/Black	(20.4 ～ 30.6 kgf・cm)	130 g	10 pcs	100 pcs
180-033-211	CSD-10-TV-H-WT	ABS/Steel	Nickel/White	3.0 ～ 4.0 N・m	130 g	10 pcs	100 pcs
180-033-212	CSD-10-TV-H-BL	ABS/Steel	Nickel/Black	(30.6 ～ 40.8 kgf・cm)	130 g	10 pcs	100 pcs

ADJUSTABLE SOFT-DOWN STAY

Lapcon STEEL **NSD-10**



■Features

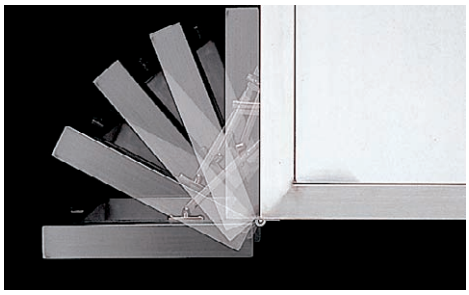
- For downward-opening flap doors.
- Can be used with concealed, piano, or butt hinges.
- Designed to hold the door in closed position.
- Successfully passed for the 50,000 open/close private cycle test.
- Opening speed adjustable.
- Torque Calculation :

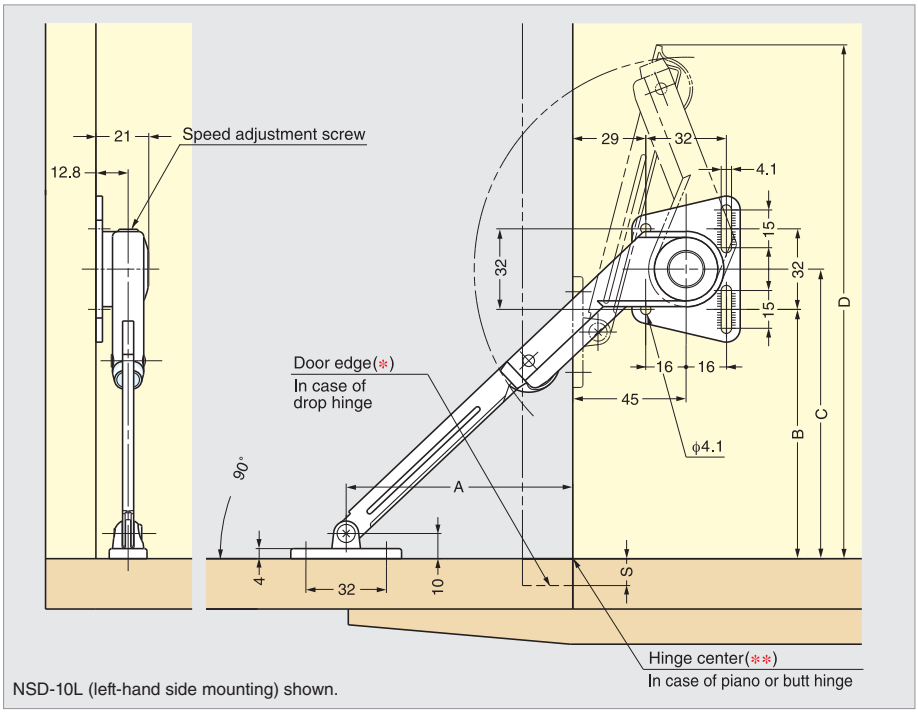
  Torque = Door Height x 1/2 x Door Weight.

  Per Piece : 20~70 kgf·cm.

  Per Pair : 40~140 kgf·cm.

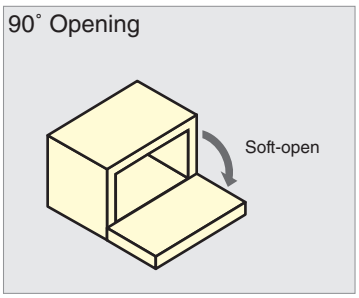
Material	Finish
Zinc Alloy, Steel	Bright Nickel





NSD-10L (left-hand side mounting) shown.

The distance for A, B, C is measured from "door edge (*)" and "top surface of bottom board" when drop hinges are used, and from "hinge center (**)" and "top surface of bottom board" when piano or butt hinges are used.



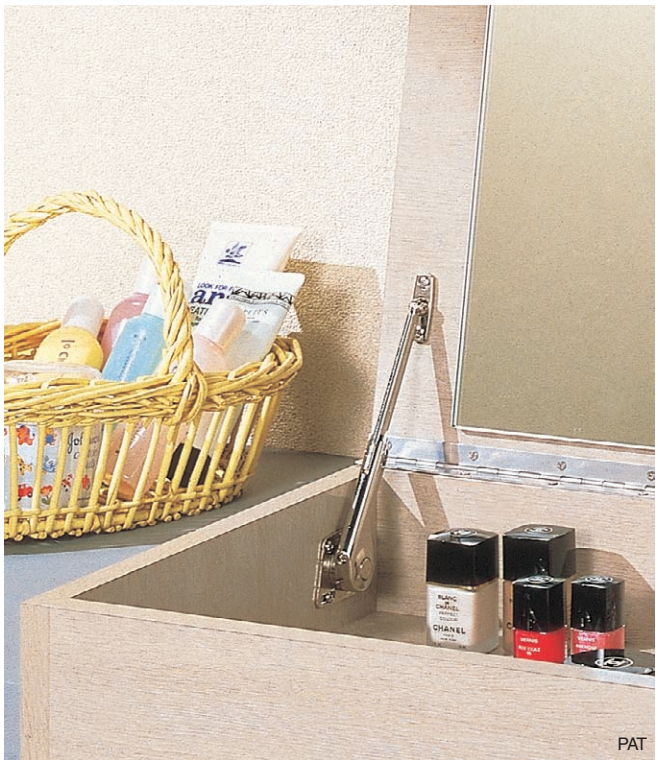
Hinge Type	A	B	C	D
Drop Hinge	97	106-S	122-S	211-S
Piano / Butt Hinge	90	99	115	204

Note: S = Overlay

Item Code	Item Name	Weight	Box	Carton
180-109-376	NSD-10R	210 g	20 pcs	80 pcs
180-109-381	NSD-10L	210 g	20 pcs	80 pcs

ADJUSTABLE SOFT-DOWN STAY

Lapcon STEEL **NSD-20**



■Features

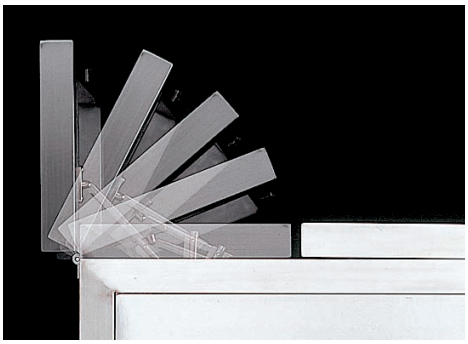
- For top-opening flap doors.
- Can be used with concealed, piano, or butt hinges.
- Opening angle adjustable from 70˚ to 105˚
- Designed to hold the door in fully opened position.
- Successfully passed for the 50,000 open/close private cycle test.
- Closing speed adjustable.
- Torque Calculation :

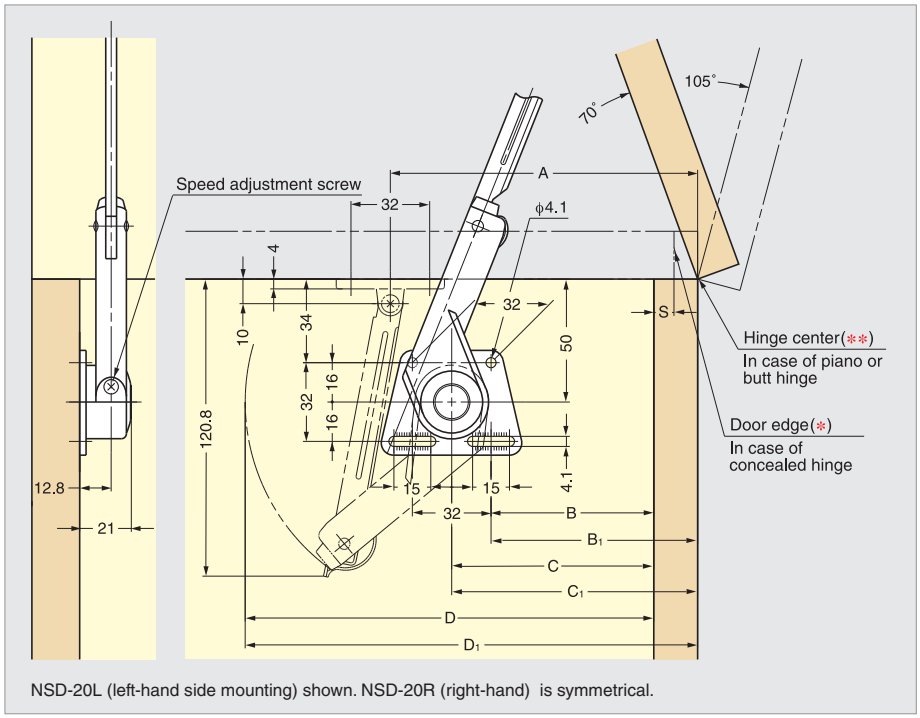
  Torque = Door Height x 1/2 x Door Weight.

  Per Piece : 20~70 kgf·cm

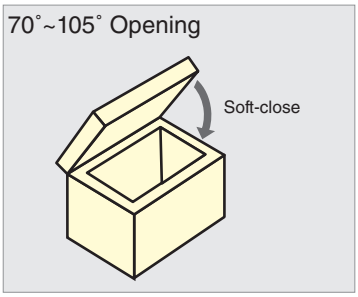
  Per Pair : 40~140 kgf·cm

Material	Finish
Zinc Alloy, Steel	Bright Nickel





NSD-20L (left-hand side mounting) shown. NSD-20R (right-hand) is symmetrical.



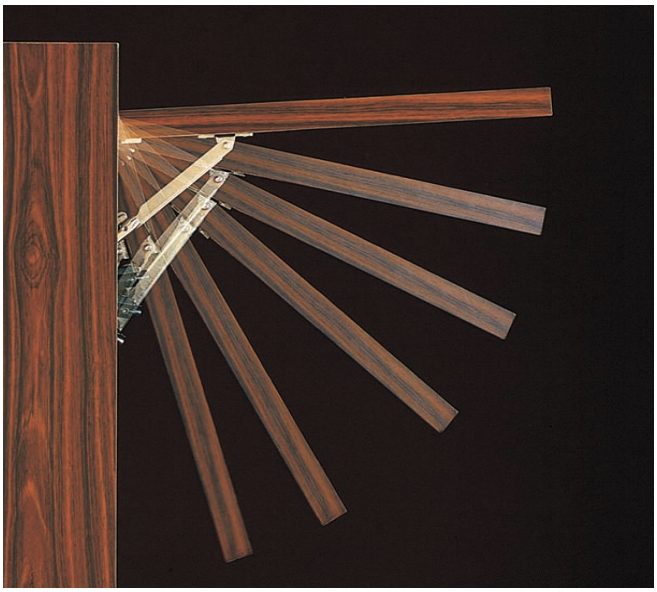
Opening Angle	Hinge Type	A	B	C	D	B_1	C_1	D_1
70˚	Concealed Hinge	126	85-S	101-S	185-S	–	–	–
	Piano / Butt Hinge	125	–	–	–	84	100	184
105˚	Concealed Hinge	103	62-S	78-S	162-S	–	–	–
	Piano / Butt Hinge	97	–	–	–	56	72	156

Note: S = Overlay

Item Code	Item Name	Weight	Box	Carton
180-104-103	NSD-20R	210 g	20 pcs	80 pcs
180-104-102	NSD-20L	210 g	20 pcs	80 pcs

ADJUSTABLE SOFT-DOWN STAY

Lapcon STEEL **NSD-35**



■Features

- For upward-opening flap doors.
- Can be used with concealed, piano, or butt hinges.
- Opening angle adjustable from 80˚ to 100˚.
- Designed to hold the door in fully opened position.
- Two stop version (holds the door at 65˚ and 90˚) also available.
- Successfully passed for the 50,000 open/close private cycle test.
- Closing speed adjustable.
- Torque Calculation :

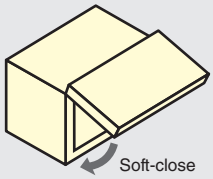
  Torque = Door Height x 1/2 x Door Weight.

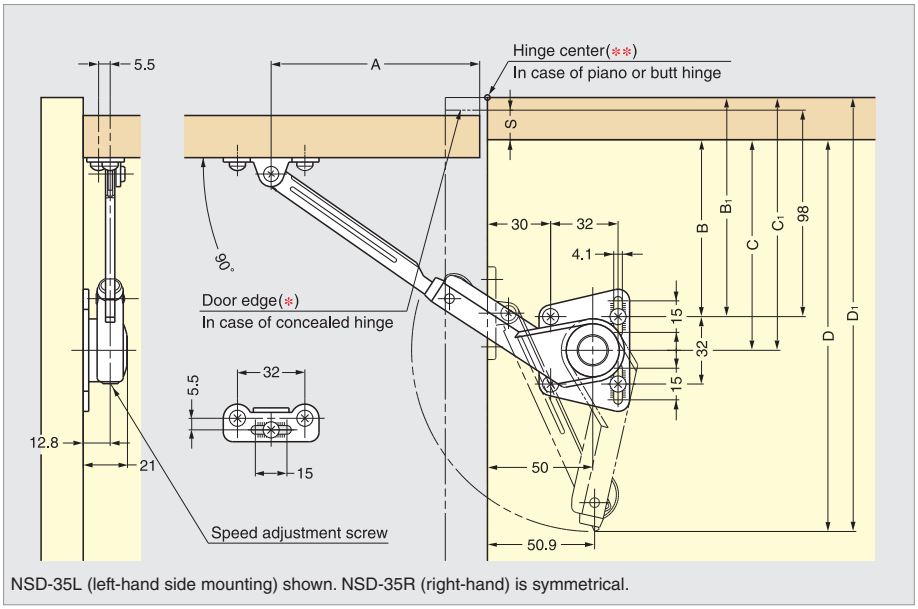
  Per Piece : 20~70 kgf-cm.

  Per Pair : 40~140 kgf-cm.

Material	Finish
Zinc Alloy, Steel	Bright Nickel

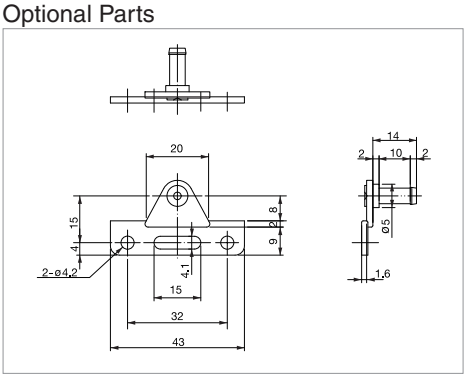
80˚~100˚ Opening



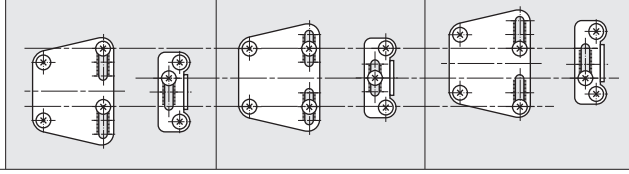


NSD-35L (left-hand side mounting) shown. NSD-35R (right-hand) is symmetrical.

Optional Parts



NSDX-AZ (angle bracket) for 20 mm thickness aluminium frame.

Opening Angle	80˚		90˚		100˚	
Position of Plates	Down		Middle		Up	
	Mounting Plate	Arm Bracket	Mounting Plate	Arm Bracket	Mounting Plate	Arm Bracket
For Hinge Center (Up) ↕ (Down)						

Hinge Type	A	B	C	D	B_1	C_1	D_1
Concealed Hinge	99	98-S	114-S	200-S	—	—	—
Piano / Butt Hinge	93	—	—	—	92	108	194

Note: S = Overlay

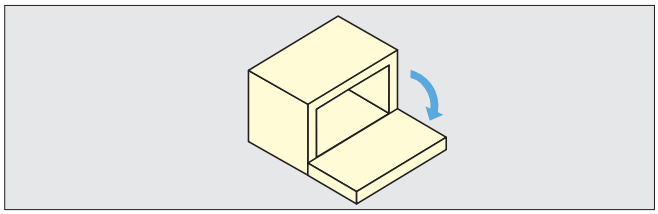
Item Code	Item Name	Weight	Box	Carton
108-109-280	NSD-35R	210 g	20 pcs	80 pcs
108-109-279	NSD-35L	210 g	20 pcs	80 pcs

ADJUSTABLE SOFT-DOWN STAY

Lapcon

NSDX-10 (R/L)





■Features

- For downward-opening doors.
- Can be used with piano, butt, or drop hinges.
- Designed to hold the door in closed position.
- Successfully passed for the 30,000 open/close private cycle test.
- Opening speed adjustable.

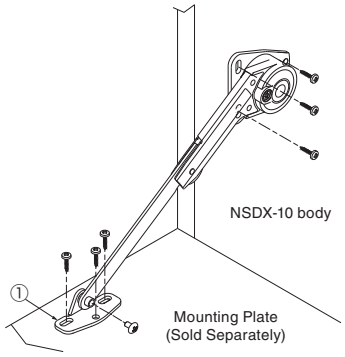
■Torque

- With 1 stay
  Torque = 1.96～ 6.86 N・m (20～ 70 kgf・cm)
- With 2 stays, the torque will be doubled.

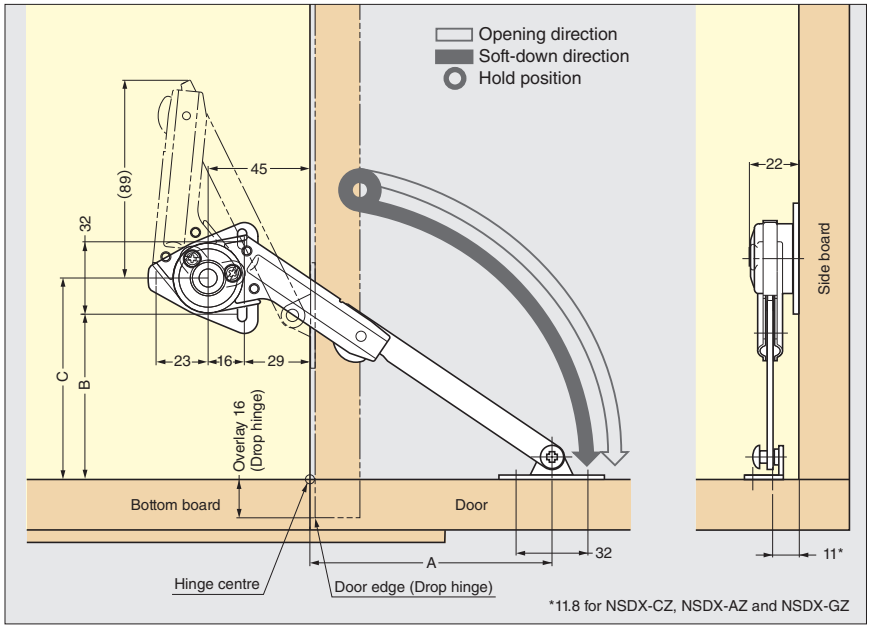
■Sold Separately

①Mounting plate NSDX-SZ (below)
②Mounting plate NSDX-CZ (P.522)
③Mounting plate NSDX-AZ for 20 mm aluminium frame (P.522)
④Mounting plate NSDX-GZ for glass door (P.522)
⑤SDS-50G for glass door (P.522)





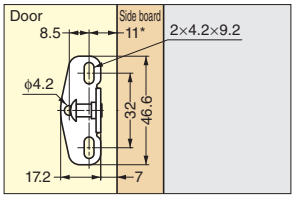
■Installation (Opening Angle 90˚)



Hinge Type	A	B	C
Drop Hinge (SDH-001)	97*	91	107
Single Knuckle Hinge	90	99	115

●*In case overlay 16 mm.

■Installation for Mounting Plate



■Body

Item Code	Item Name	L/R	Material	Finish	Torque Moment /piece	Catch Function		Weight	Box	Carton
						Opened Position	Closed Position			
180-109-008	NSDX-10R	Right	Zinc Alloy (ZDC), Steel	Nickel	1.96～6.86 N・m (20～ 70 kgf・cm)	×	○	181 g	20 pcs	80 pcs
180-109-009	NSDX-10L	Left	Zinc Alloy (ZDC), Steel	Nickel		×	○	181 g	20 pcs	80 pcs

■Mounting Plate (Sold Separately)

Item Code	Item Name	Type	Weight	Box	Carton
180-109-032	NSDX-SZ	Screw on	14 g	160 pcs	640 pcs

■SDS Face Plate (Sold Separately)

※Please use with NSDX-GZ mounting plate.

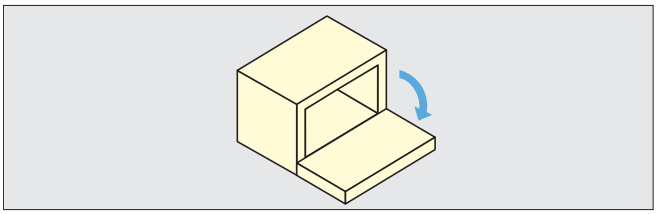
Item Code	Item Name	Material	Finish/Colour	Weight	Box	Carton
180-100-260	SDS-50G-CR	Zinc Alloy (ZDC)/ABS	Chrome/Black	25 g	50 pcs	200 pcs
180-928-046	SDS-50G-BL	Zinc Alloy (ZDC)/ABS	Black	25 g	50 pcs	200 pcs

SHORT ARM SOFT-DOWN STAY

Lapcon STEEL

NSDX-10 (R/L) K-TV





■Features

- For downward-opening doors.
- Can be used with piano, butt, or drop hinges.
- Designed to hold the door in closed position.
- Successfully passed for the 30,000 open/close private cycle test.
- Opening speed adjustable.

■Torque

- With 1 stay
  Torque = 0.98～ 1.96 N・m (10～ 20 kgf・cm)
- With 2 stays, the torque will be doubled.

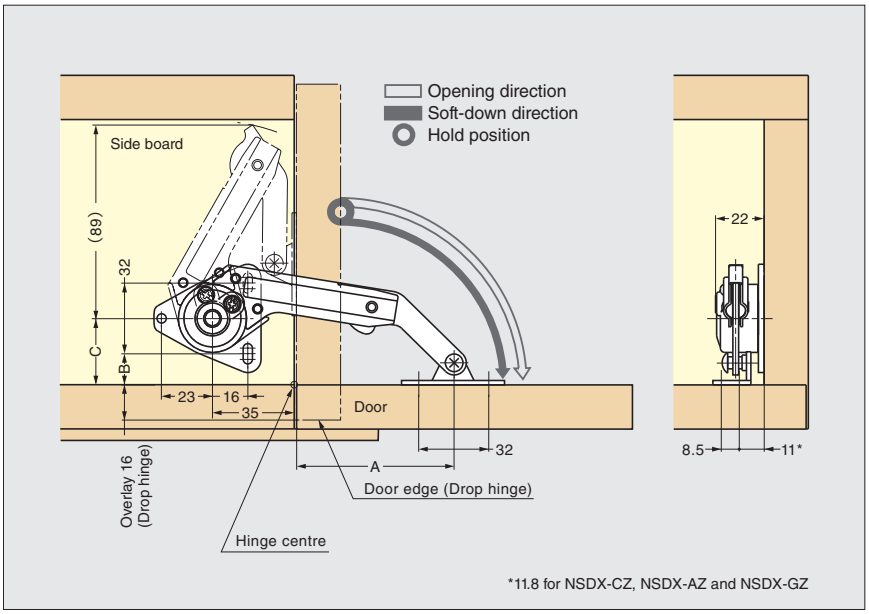
■Parts Included

- Mounting plate NSDX-SZ
- Binding head tapping screw 3.5×15

■Optional Parts

- Mounting plate NSDX-CZ (P.522)
- Mounting plate NSDX-AZ for 20 mm aluminium frame (P.522)
- Mounting plate NSDX-GZ for glass door (P.522)
- SDS-50G for glass door (P.522)

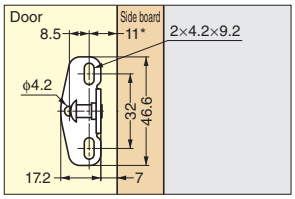
■Installation (Opening Angle 90°)



Hinge Type	A	B	C
Drop Hinge (SDH-001)	74*	14	30
Single Knuckle Hinge	71	27	43

- *In case overlay 16 mm.

■Installation for Mounting Plate



■Body

Item Code	Item Name	L/R	Material	Finish	Torque Moment /piece	Catch Function		Weight	Box	Carton
						Closed Position	Opened Position			
180-016-425	NSDX-10RK-TV	Right	Zinc Alloy (ZDC), Steel	Nickel	0.98～1.96 N・m (10～ 20 kgf・cm)	○	×	143 g	20 pcs	80 pcs
180-016-424	NSDX-10LK-TV	Left	Zinc Alloy (ZDC), Steel	Nickel		○	×	143 g	20 pcs	80 pcs

■Mounting Plate (Optional Parts)

Item Code	Item Name	Type
180-109-460	NSDX-CZ	Clip-on
180-109-019	NSDX-AZ	Clip-on for 20 mm width Alumi Frame
180-109-459	NSDX-GZ	Clip-on for Glass Door

■SDS Face Plate (Optional Parts)

※Please use with NSDX-GZ mounting plate.

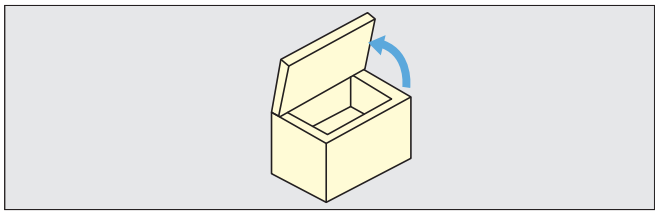
Item Code	Item Name	Material	Finish/Colour	Weight	Box	Carton
180-100-260	SDS-50G-CR	Zinc Alloy (ZDC)/ABS	Chrome/Black	25 g	50 pcs	200 pcs
180-928-046	SDS-50G-BL	Zinc Alloy (ZDC)/ABS	Black	25 g	50 pcs	200 pcs

ADJUSTABLE SOFT-DOWN STAY

Lapcon

NSDX-20 (R/L)





■Features

- For top-opening doors.
- Can be used with concealed, piano, or butt hinges.
- Designed to hold the door in fully opened position.
- Opening angle 70˚ or 105˚.
- Successfully passed for the 30,000 open/close private cycle test.
- Closing speed adjustable.

■Torque

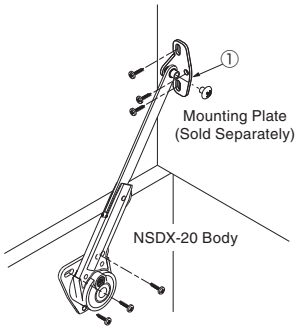
- With 1 stay
  Torque = 1.96～ 6.86 N・m (20～ 70 kgf・cm)
- With 2 stays, the torque will be doubled.

Torque = Door weight (kg)×9.8×Length from the axis to the centre of gravity of the door (m)

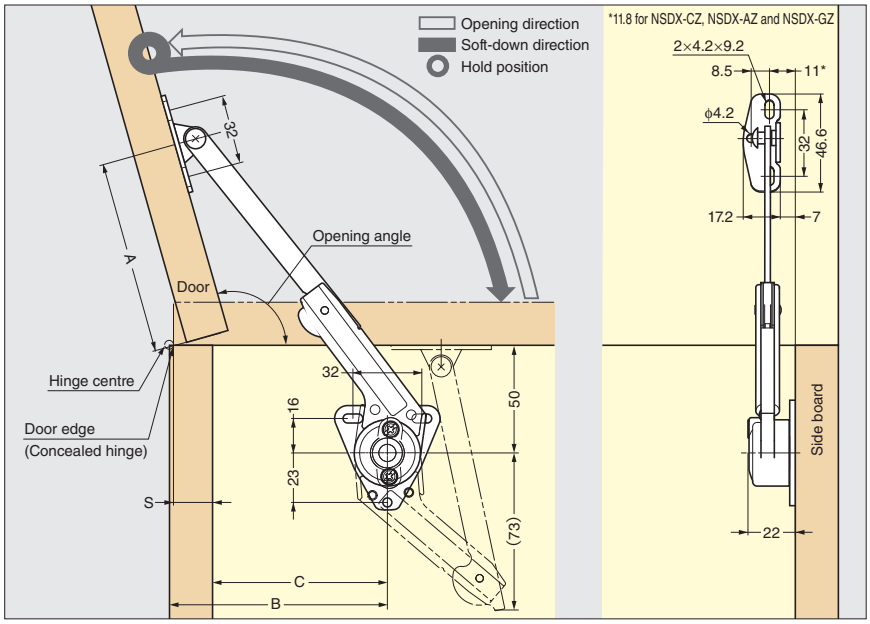
■Sold Separately

①Mounting plate NSDX-SZ (below)
②Mounting plate NSDX-CZ (P.522)
③Mounting plate NSDX-AZ for 20 mm aluminium frame (P.522)
④Mounting plate NSDX-GZ for glass door (P.522)
⑤SDS-50G for glass door (P.522)





■Installation (Opening Angle 105˚)



Hinge Type		A	B	C
70˚ opening	Concealed Hinge	126	—	101−S
	Single Knuckle Hinge	125	100	—
105˚ opening	Concealed Hinge	103	—	78−S
	Single Knuckle Hinge	97	72	—

S = Overlay

■Body

Item Code	Item Name	L/R	Material	Finish	Torque Moment /piece	Catch Function		Weight	Box	Carton
						Opened Position	Closed Position			
180-109-481	NSDX-20R	Right	Zinc Alloy (ZDC), Steel	Nickel	1.96～6.86 N・m (20～ 70 kgf・cm)	○	×	181 g	20 pcs	80 pcs
180-109-480	NSDX-20L	Left	Zinc Alloy (ZDC), Steel	Nickel		○	×	181 g	20 pcs	80 pcs

■Mounting Plate (Sold Separately)

Item Code	Item Name	Type	Weight	Box	Carton
180-109-032	NSDX-SZ	Screw on	14 g	160 pcs	640 pcs

■SDS Face Plate (Sold Separately)

※Please use with NSDX-GZ mounting plate.

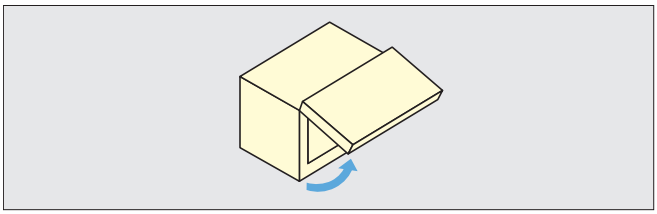
Item Code	Item Name	Material	Finish/Colour	Weight	Box	Carton
180-100-260	SDS-50G-CR	Zinc Alloy (ZDC)/ABS	Chrome/Black	25 g	50 pcs	200 pcs
180-928-046	SDS-50G-BL	Zinc Alloy (ZDC)/ABS	Black	25 g	50 pcs	200 pcs

ADJUSTABLE SOFT-DOWN STAY

Lapcon

NSDX-35 (R/L)





■Features

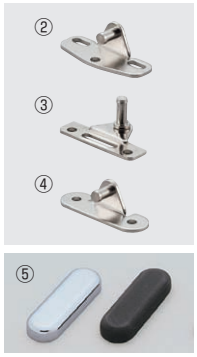
- For upward-opening doors.
- Can be used with concealed, piano, or butt hinges.
- Opening angle 80˚ to 100˚.
- Two stop version also available (holds the door at 60˚, 65˚ or 70˚).
- NSDX-35 is designed to hold the door in fully opened position.
- Successfully passed for the 30,000 open/close private cycle test.
- Closing speed adjustable.

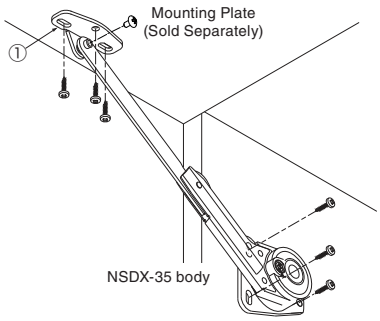
■Torque

- With 1 stay
  Torque = 1.96～ 6.86 N・m (20～ 70 kgf・cm)
- With 2 stays, the torque will be doubled.

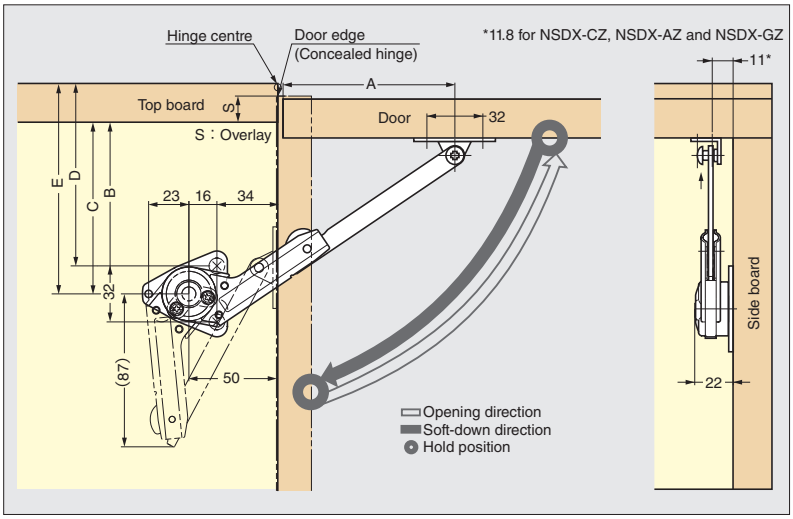
■Sold Separately

①Mounting plate NSDX-SZ (below)
②Mounting plate NSDX-CZ (P.522)
③Mounting plate NSDX-AZ for 20 mm aluminium frame (P.522)
④Mounting plate NSDX-GZ for glass door (P.522)
⑤SDS-50G for glass door (P.522)





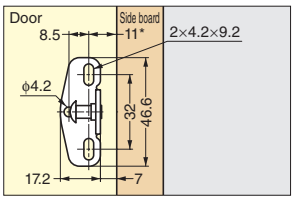
■Installation (Opening Angle 90˚)



Hinge Type		A	B	C	D	E
80˚ opening	Concealed Hinge	106	105 −S	121−S	−	−
	Single Knuckle Hinge	100	−	−	99	115
90˚ opening	Concealed Hinge	98	97 −S	113−S	−	−
	Single Knuckle Hinge	91.5	−	−	90.5	106.5
100˚ opening	Concealed Hinge	92.5	91.5−S	107.5−S	−	−
	Single Knuckle Hinge	85	−	−	84	100

S = Overlay

■Installation for Mounting Plate



■Body

Item Code	Item Name	L/R	Material	Finish	Torque Moment /piece	Catch Function		Weight	Box	Carton
						Opened Position	Closed Position			
180-109-028	NSDX-35R	Right	Zinc Alloy (ZDC), Steel	Nickel	1.96～6.86 N・m (20～ 70 kgf・cm)	○	○	181 g	20 pcs	80 pcs
180-109-029	NSDX-35L	Left	Zinc Alloy (ZDC), Steel	Nickel		○	○	181 g	20 pcs	80 pcs
180-109-026	NSDX-35R 2S	Right	Zinc Alloy (ZDC), Steel	Nickel	1.96～4.9 N・m (20～ 50 kgf・cm)	○	○	181 g	20 pcs	80 pcs
180-109-027	NSDX-35L 2S	Left	Zinc Alloy (ZDC), Steel	Nickel		○	○	181 g	20 pcs	80 pcs

■Mounting Plate (Sold Separately)

Item Code	Item Name	Type	Weight	Box	Carton
180-109-032	NSDX-SZ	Screw on	14 g	160 pcs	640 pcs

■SDS Face Plate (Sold Separately)

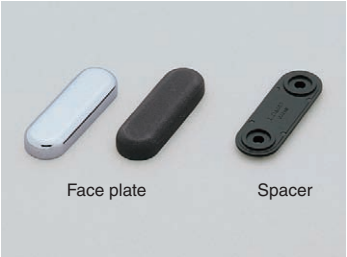
※Please use with NSDX-GZ mounting plate.

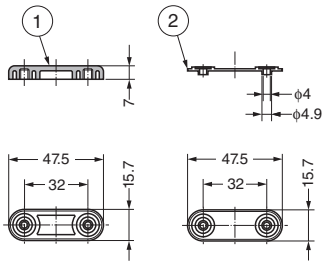
Item Code	Item Name	Material	Finish/Colour	Weight	Box	Carton
180-100-260	SDS-50G-CR	Zinc Alloy (ZDC)/ABS	Chrome/Black	25 g	50 pcs	200 pcs
180-928-046	SDS-50G-BL	Zinc Alloy (ZDC)/ABS	Black	25 g	50 pcs	200 pcs

FACE PLATE FOR GLASS DOOR

STEEL

SDS-50G





■**Features**

Can be used with SDS or NSDX-GZ.

■**Parts Included**

Countersunk head screw M4×14

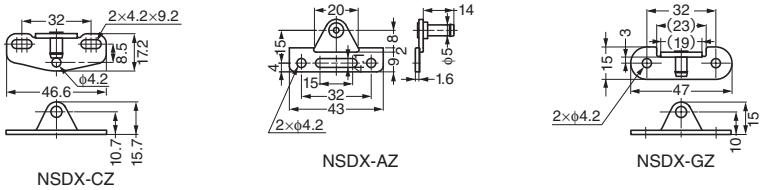
No.	Part Name	Material	Finish/Colour	Carton
①	Face Plate	Zinc Alloy (ZDC)	Chrome (CR), Black (BL)	1 pc
②	Spacer	ABS	Black	2 pcs

Item Code	Item Name	Weight	Box	Carton
180-100-260	SDS-50G-CR	25 g	50 pcs	200 pcs
180-928-046	SDS-50G-BL	25 g	50 pcs	200 pcs

MOUNTING PLATE FOR NSDX

NSDX-CZ, NSDX-AZ, NSDX-GZ





Item Code	Item Name	Type	Weight	Box	Carton
180-109-460	NSDX-CZ	Clip on	13 g	160 pcs	640 pcs
180-109-019	NSDX-AZ	Clip on for 20 mm width Aluminium Frame	11 g	320 pcs	1280 pcs
180-109-459	NSDX-GZ	Clip on Mounting Plate for Glass Door	14 g	8 pcs	640 pcs

BRACKET FOR DISK DAMPER UDD

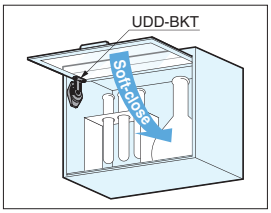
L=R

STAINLESS 304 STEEL

UDD-BKT



■**Application Example**



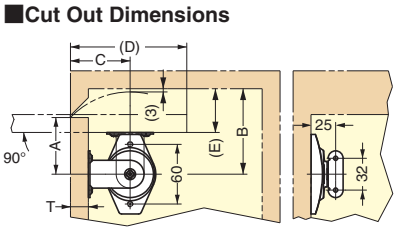
■**Features**

Bracket of disk damper UDD (P.523) for upward-opening doors.

■**Remarks**

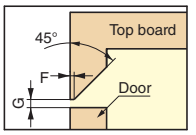
- Catch is needed for holding door in opened position.
- SDS-50G (above) face plate available for glass/acrylic doors.

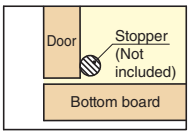
■**Cut Out Dimensions**



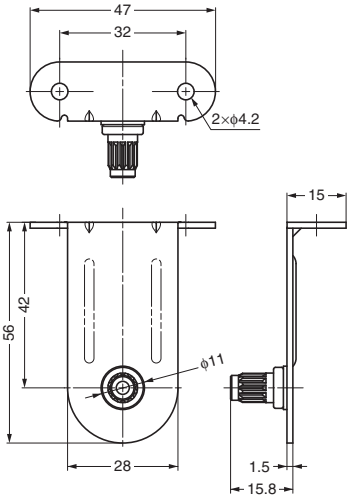
No.	Door Thickness T	A	B	C	D	E
①	5	46	70	49	(95)	(26)
②	15	54	82	57	(111)	(40)
③	18	57	86	60	(117)	(44)

*① is for glass/acrylic door with SDS-50G.
②, ③ is for wooden door.





F	G
1	3
2	4
3	5



Item Code	Item Name	Material	Finish	Weight	Carton
180-026-764	UDD-BKT	Stainless Steel (SUS304)	Plain	33 g	60

DISK DAMPER

Lapcon **UDD**



■Features

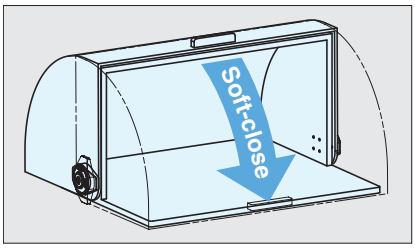
- Prevents from slamming shut.
- Ideal for rounded cover applications.
- Recommended for food showcase and acrylic display.
- For upward-opening door with the bracket UDD-BKT.

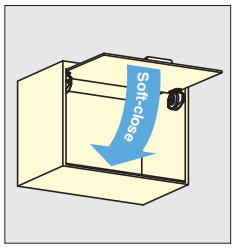
■Sold Separately

Bracket UDD-BKT (P.522)

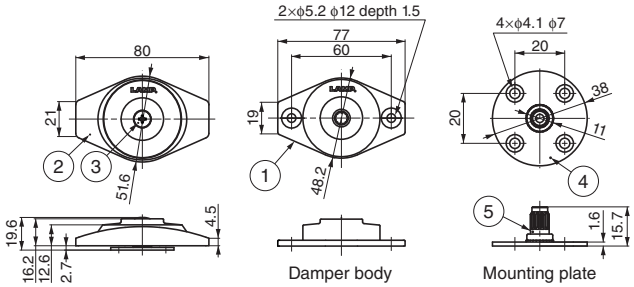
Video Link

■Application Example

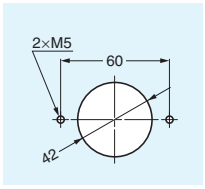




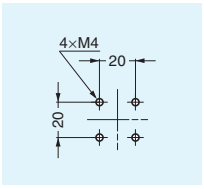
With the bracket UDD-BKT



■Cut Out Dimensions



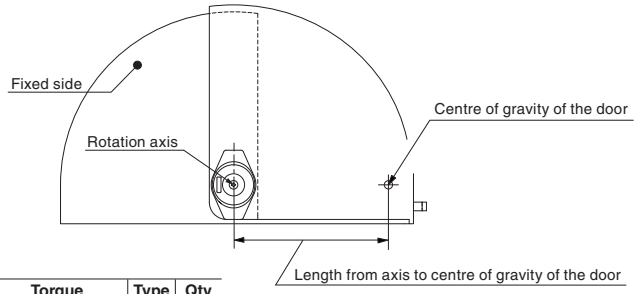
Door side



Fixed side

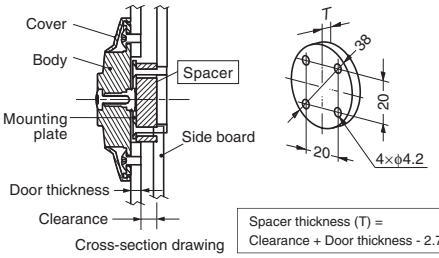
■Torque Calculation

Torque =
Door weight (kg) × 9.8 × Length from axis to centre of gravity of the door



Torque	Type	Qty
1.0～ 2.0 N・m	S	2 pcs
2.0～ 4.0 N・m	M	2 pcs
4.0～ 6.0 N・m	H	2 pcs

■Spacer

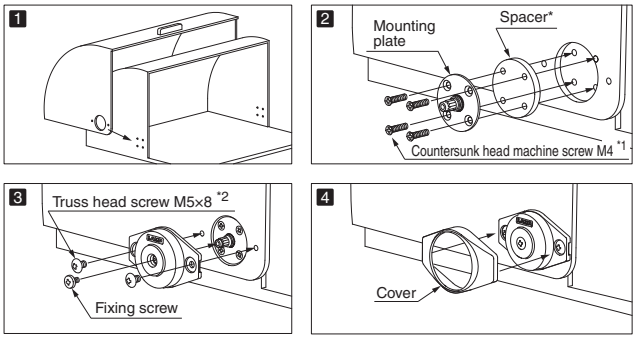


Cross-section drawing

Spacer thickness (T) =
Clearance + Door thickness - 2.7 mm

*Customer should provide spacer.

■How to Install



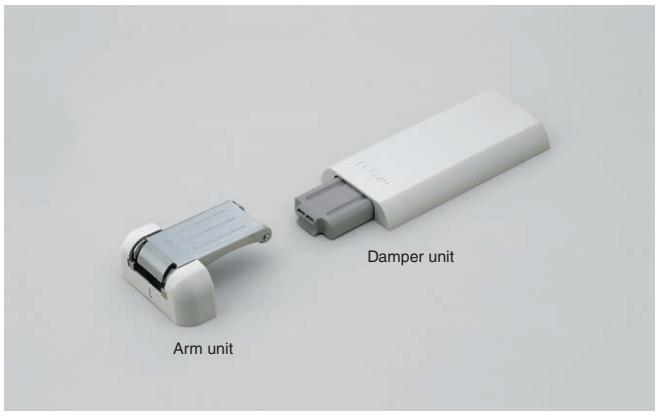
*1, *2 screws and spacer not included.

Item Code	Item Name	Type	Torque Moment/piece	Weight	Box
180-022-306	UDD-S-L	Left	0.5 ～ 1.0 N・m	99 g	20 pcs
180-022-307	UDD-S-R	Right	(5.1 ～ 10.2 kgf・cm)	99 g	20 pcs
180-022-308	UDD-M-L	Left	1.0 ～ 2.0 N・m	99 g	20 pcs
180-022-309	UDD-M-R	Right	(10.2 ～ 20.4 kgf・cm)	99 g	20 pcs
180-022-310	UDD-H-L	Left	2.0 ～ 3.0 N・m	99 g	20 pcs
180-022-311	UDD-H-R	Right	(20.4 ～ 30.6 kgf・cm)	99 g	20 pcs

No.	Part Name	Material	Finish/Colour
①	Damper Body	ABS	Light Grey
②	Cover	ABS	Light Grey
③	Screw	Steel	Nickel
④	Mounting Plate	Steel	Nickel
⑤	Shaft	Steel	Zinc Chromate

LIFT-ASSIST DAMPER

LAD



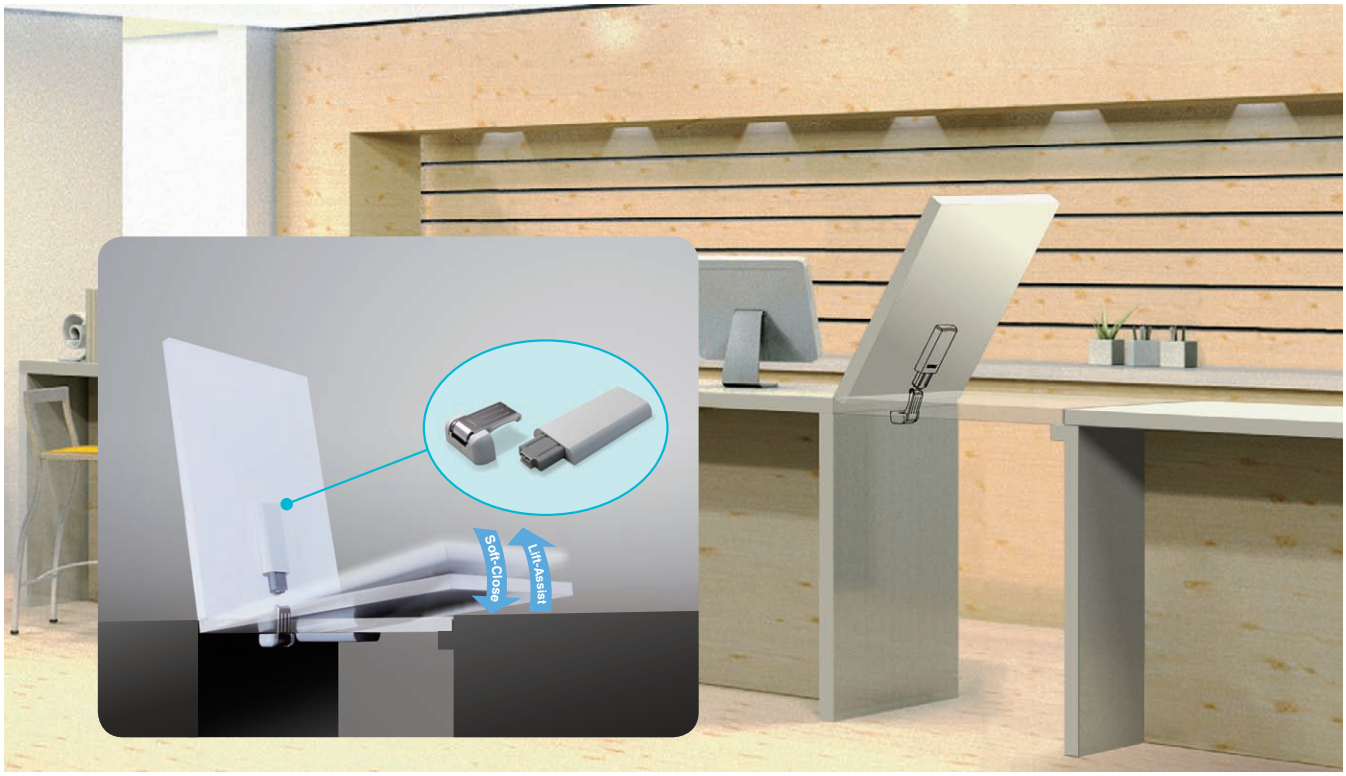
■Features

- Lift-assist mechanism with light opening.
- Smooth and soft close movement at the end, preventing flaps from slamming shut.
- Ideal for counter flaps at bars, restaurants, and receptions.
- Door thickness: 15~25 mm. Max. door thickness with spacer LAD-DP is 40 mm.
- Can be installed on the backside of a table with bracket.
- Successfully passed for the 100,000 open/close private cycle test.

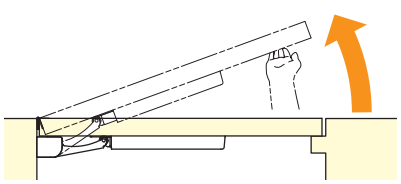
■Parts Included

Binding head tapping screw 4×16

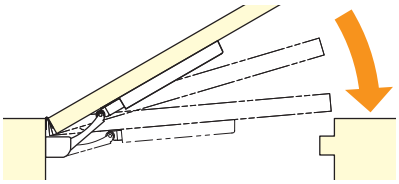
■Application Example



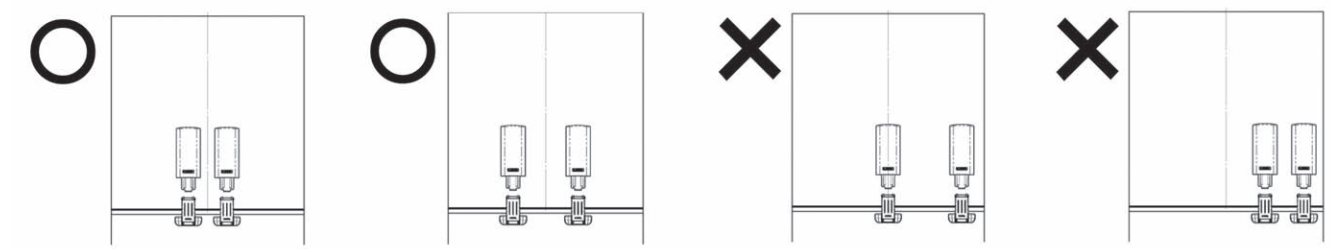
Lift-Assist

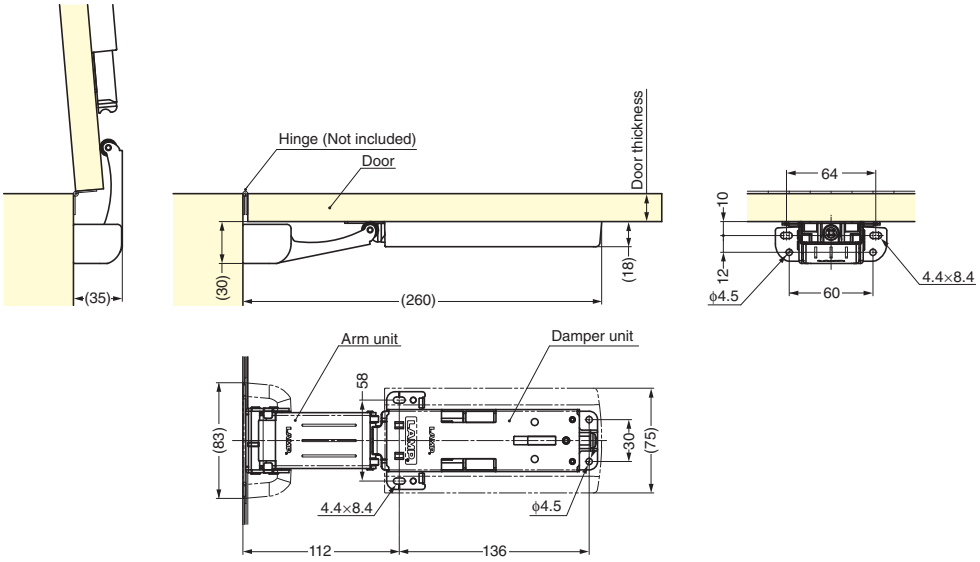


Soft-Close

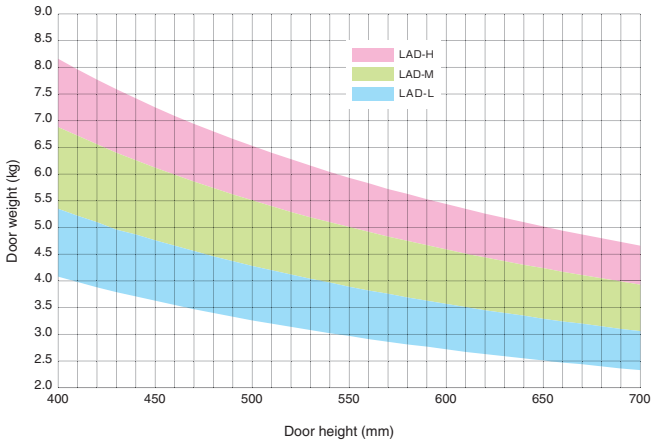


■Installation Position for 2 pcs





■Door Size Ranges: 1 pc Use (※2 pcs use possible. Torque moment becomes double.)

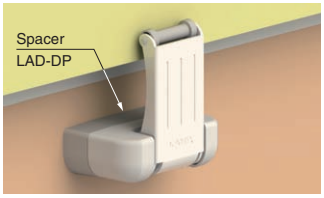


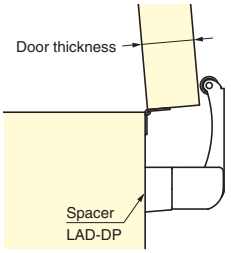
Video Link

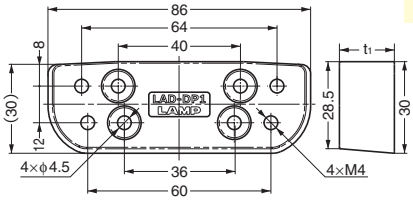
Item Code	Item Name	Material	Finish	Torque Moment/piece	Door Thickness	Weight	Carton
170-025-804	LAD-L	ABS/ Polyacetal (POM)/ Steel	Zincing/Nickel Chrome	8.0～10.5 N·m (81.6～107.1 kgf·cm)	15～25	545 g	20 pcs
170-025-805	LAD-M			10.5～13.5 N·m (107.1～137.7 kgf·cm)		568 g	
170-025-806	LAD-H			13.5～16.0 N·m (137.7～163.2 kgf·cm)		571 g	

SPACER LAD-DP

For over 25 mm thickness door.

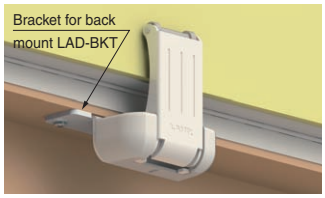


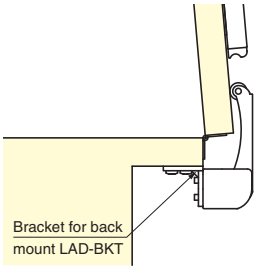


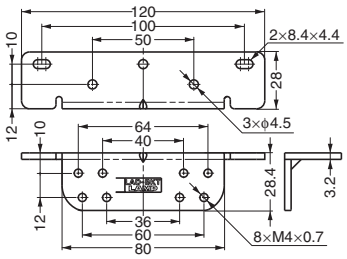


Item Code	Item Name	t_1	Door Thickness	Material	Colour
170-028-234	LAD-DP1	18	25～35	Polyacetal (POM)	Grey
170-028-235	LAD-DP2	25	30～40		

BRACKET FOR BACK MOUNT LAD-BKT



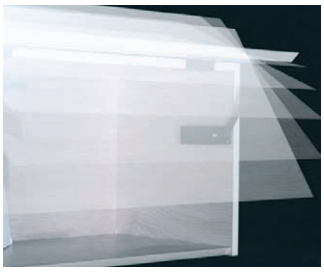




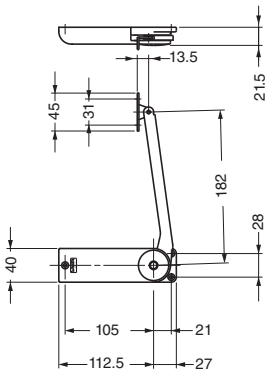
Item Code	Item Name	Material	Colour
170-028-236	LAD-BKT	Steel (SPCC)	Nickel

OVER THE TOP FLIPPER DOOR MECHANISM (W/ LIFT-ASSIST) OV-EZ









■Features

- Patented LAPCON technology provides a smooth and quiet motion.
- Lift-assist function allows extra-light opening.
- Prevents from slamming shut.

■Remarks

1 pair of OV-EZ body and 2 pcs of C1315 rail (sold separately) are necessary for 1 cabinet.

■Parts Included

Binding head tapping screw 3.5×16

■Sold Separately

- C1315 rail (below)
- BS-2 clear bumper or angle stopper OV-EZ-SP (P.527) for noise prevention

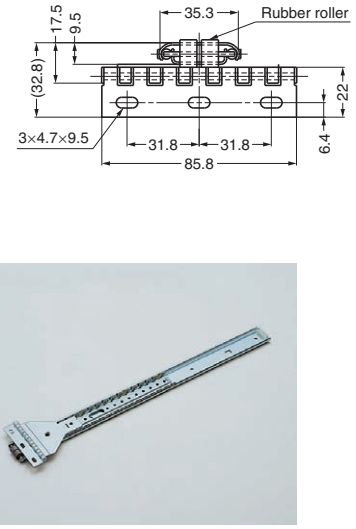
Video Link

■Body (1 pair)

Item Code	Item Name	Material	Finish/Colour	Door Weight* for Lift-assist Function	Door Weight* for Free-stop Function	Door Width	Door Height	Door Thickness	Weight	Carton
180-100-091	OV-EZ-3	ABS/Steel	Black/Nickel	2.5～4.0 kg	4.0～ 6.5 kg	600～1200	370～450	Min. 15	564 g	50 pairs
180-100-092	OV-EZ-5	ABS/Steel	Black/Nickel	3.5～5.0 kg	5.0～ 8.0 kg	600～1200	370～450	Min. 15	538 g	50 pairs
180-100-093	OV-EZ-7	ABS/Steel	Black/Nickel	4.5～6.0 kg	6.0～10.0 kg	600～1200	370～450	Min. 15	600 g	50 pairs
180-100-094	☆OV-EZ-9	ABS/Steel	Black/Nickel	5.5～7.0 kg	7.0～11.5 kg	600～1200	370～450	Min. 15	—	50 pairs

☆Made to order
*In case the door height is 380 mm.

■C1315 Rail (Sold Separately)

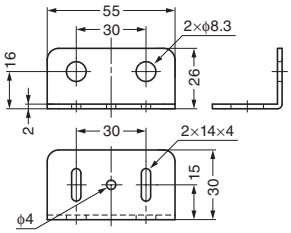


Item Code	Item Name	Material	Finish	Slide Length	Travel Length	A	B	Weight	Carton
190-113-849	C1315-14	Steel	Clear Zinc Chromate	350.6	262	186.7	310.5	320 g (1 pc)	20 pcs
190-113-850	C1315-18	Steel	Clear Zinc Chromate	450.6	362	286.7	410.5	390 g (1 pc)	20 pcs

2 pcs of C1315 rail are necessary for 1 cabinet.

■Angle Stopper (Sold Separately)

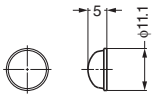




Item Code	Item Name	Material	Finish	Weight	Box	Carton
180-109-402	OV-EZ-SP	Steel	Black Chromate	47 g	70 pcs	420 pcs

■BS Clear Bumper (Sold Separately)



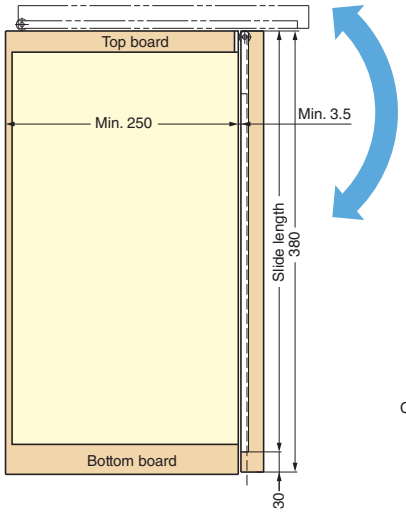


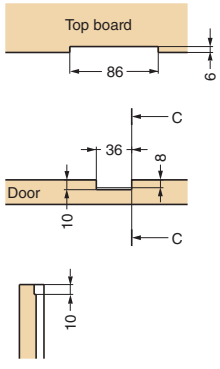
Item Code	Item Name	Material	Colour
210-030-568	BS-2	Polyurethane (PUR)	Clear

Sold per sheet (242 pcs).

■Cut Out Dimensions

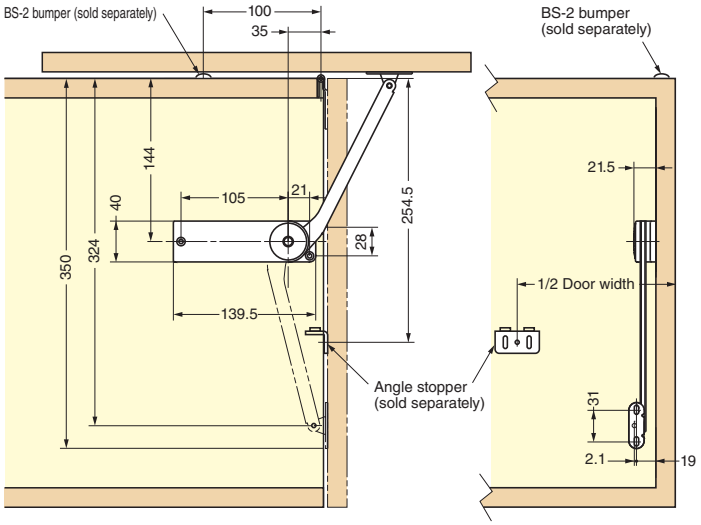
Cabinet cutaway view
(for door height: 380 mm)



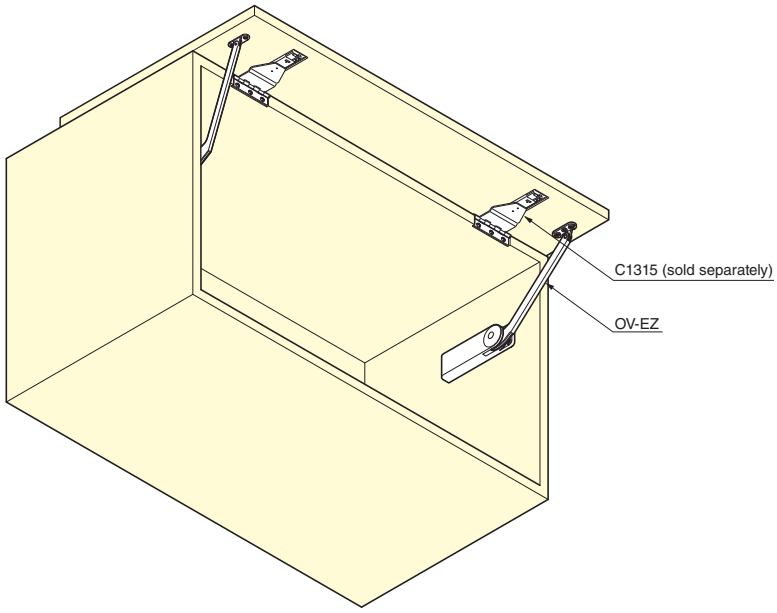


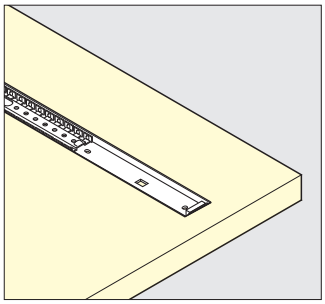
C-C Cross section

Cabinet front
(for travel length of C1315-14: 260 mm)

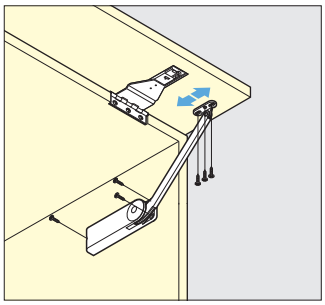


■Installation





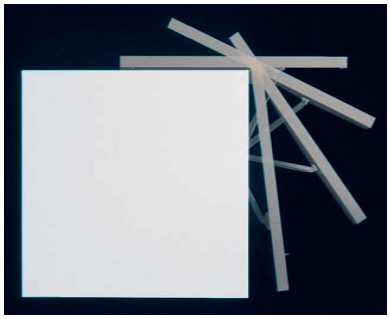
●Install C1315 rail.



●Mount the OV-EZ mechanism to the side walls of the cabinet.

OVER THE TOP FLIPPER DOOR MECHANISM (W/ SOFT CLOSING) OVN





■Features

- Patented LAPCON technology provides a smooth and quiet motion.
- Prevents from slamming shut.

■Remarks

1 pair of OVN body and 2 pcs of C1315 rail (sold separately) are necessary for 1 cabinet.

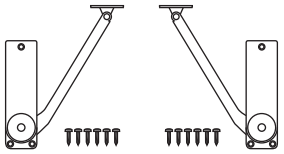
■Parts Included

Binding head tapping screw 3.5×16 (12 pcs)

■Sold Separately

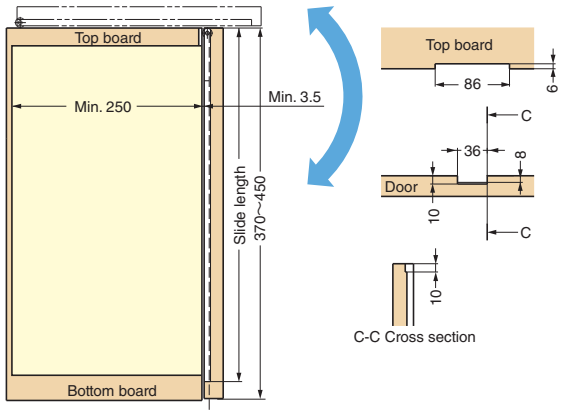
C1315 rail (below)



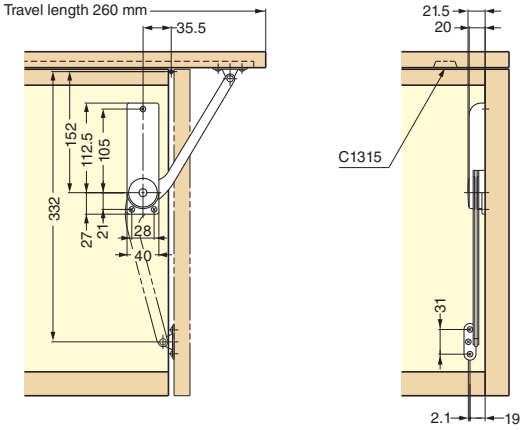


■Cut Out Dimensions

Cabinet cutaway view



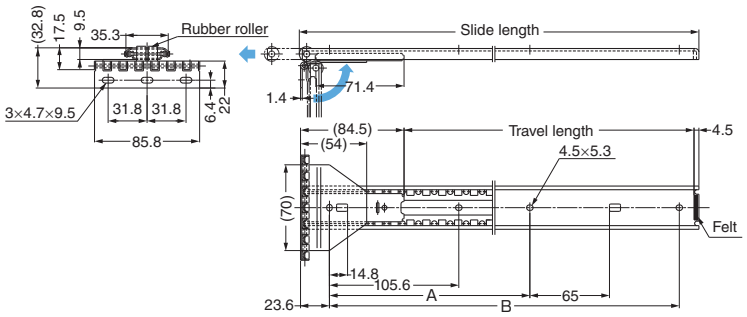
Cabinet front
(for travel length of C1315-14: 260 mm)



Item Code	Item Name	Material	Finish/Colour	Door Weight	Door Width	Door Height	Door Thickness	Weight	Carton
180-091-040	OVN-3	ABS/Steel	Black/Nickel	3~5 kg	Max. 1500	370~450	Min. 15	510 g	40 pairs
180-100-007	OVN-5	ABS/Steel	Black/Nickel	5~7 kg	Max. 1500	370~450	Min. 15	510 g	40 pairs

■C1315 Rail (Sold Separately)





Item Code	Item Name	Material	Finish	Slide Length	Travel Length	A	B	Weight	Carton
190-113-849	C1315-14	Steel	Clear Zinc Chromate	350	260	186.7	310.5	320 g (1 pc)	20 pcs
190-113-850	C1315-18	Steel	Clear Zinc Chromate	450	360	286.7	410.5	390 g (1 pc)	20 pcs

2 pcs of C1315 rail are necessary for 1 cabinet.

OVER THE TOP FLIPPER DOOR MECHANISM (W/ SOFT CLOSING) OV-1









■Features

- Patented LAPCON technology provides a smooth and quiet motion.
- Prevents from slamming shut.
- Adjustable closing speed.

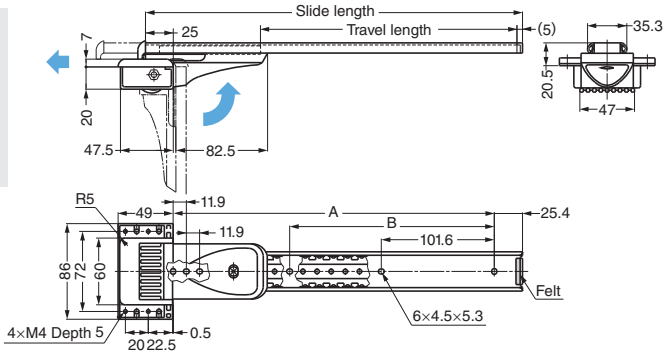
■Remarks

2 pcs of OV1-MBP-BL-TRN-N2 (Main body) and 2 pcs of OV-SLP RN (Rail) are necessary for 1 cabinet.

■Parts Included

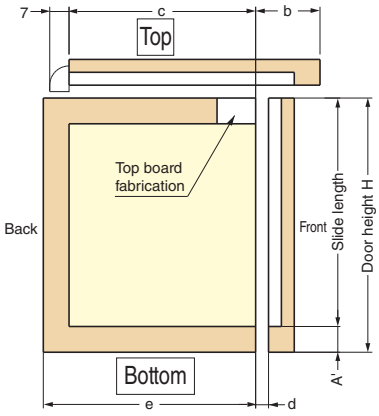
- Installation plate (4 pcs)
- Countersunk head screw M4×26 for wooden door (8 pcs)
- Binding head screw M4×8 for metal door (8 pcs)
- Binding head tapping screw 4×10 for rail installation (12 pcs)

■Installation Plate

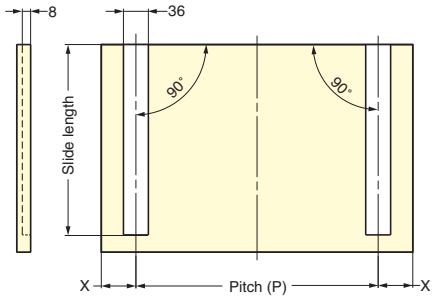


■Cut Out Dimensions

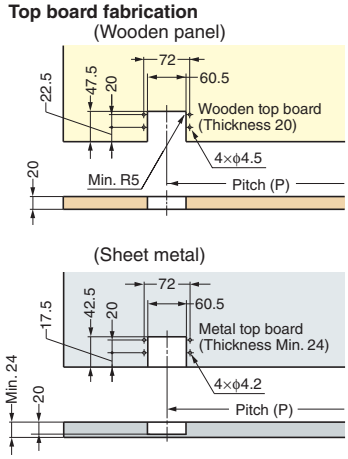
Cabinet dimensions



Door fabrication



Top board fabrication



	b	c	d	e
Wooden Top Board	A' + 81.4	H-b	2.5	Min. c+7
Metal Top Board	A' + 86.4	H-b	7.5	Min. c+7

	X
Inset Application	80
Overlay Application	Side Board Thickness+80

■Main Body: 2 pcs are necessary for 1 cabinet.

Item Code	Item Name	Material	Colour	Door Weight	Door Width	Door Height	Door Thickness	Torque Moment/set		Weight	Carton
180-109-206	OV1-MBP-BL-TRN-N2	Steel & Plastic	Black	3～5 kg	700～1400	350～450	Min. 20	5.9～9.8 N・m	60～100 kgf・cm	282 g	40 pcs

■Rail: 2 pcs are necessary for 1 cabinet.

Item Code	Item Name	Material	Finish	Slide Length	Travel Length	A	B	Weight	Carton
190-119-672	OV-13 SLP RN	Steel	Clear Zinc Chromate	330.2	223.8	279.4	177.8	270 g	20 pcs
190-119-673	OV-14 SLP RN	Steel	Clear Zinc Chromate	355.6	249.2	304.8	203.2	287 g	20 pcs
190-119-674	OV-15 SLP RN	Steel	Clear Zinc Chromate	381	274.6	330.2	228.6	310 g	20 pcs
190-119-675	OV-16 SLP RN	Steel	Clear Zinc Chromate	406.4	300	355.6	254	322 g	20 pcs

INSET RECEDING DOOR MECHANISM (W/ SOFT CLOSING) IF



	IF-102SL IF-102SR	IF-102W	IF-H102SL IF-H102SR	IF-H102W
Door Width	Max. 1200 mm	Max. 1200 mm	Max. 1200 mm	Max. 1200 mm
Door Thickness	15～20 mm	15～20 mm	18～30 mm	18～30 mm
Torque Moment	2.5～6.9 N·m (25～70 kgf·cm)	4.9～13.7 N·m (50～140 kgf·cm)	2.5～6.9 N·m (25～70 kgf·cm)	4.9～13.7 N·m (50～140 kgf·cm)

■Features

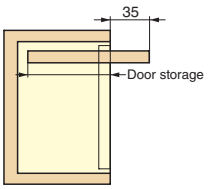
- Patented LAPCON technology provides a smooth and quiet motion.
- Prevents from slamming shut.
- Successfully passed for the 30,000 open/close private cycle test.

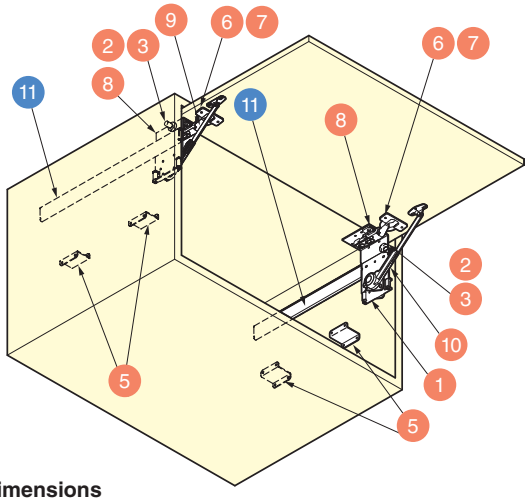
■Remarks

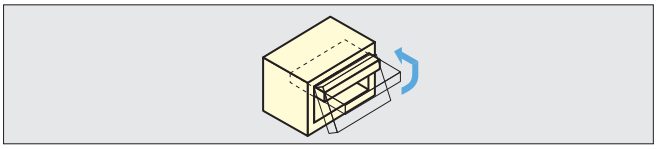
1 set of IF-102 (Parts set) and 2 pcs of AL-78 (Rails) are necessary for 1 cabinet.

■Door Storage and Recommended Door Height

Item Name / Rail	Door Storage		Recommended Door Height	
	IF-102SL IF-102SR IF-102W	IF-H102SL IF-H102SR IF-H102W	IF-102SL IF-102SR IF-102W	IF-H102SL IF-H102SR IF-H102W
AL-78-14	263.7+Door Thickness mm	260.9+Door Thickness mm	298.7+Door Thickness mm	295.9+Door Thickness mm
AL-78-16	314.5+Door Thickness mm	311.7+Door Thickness mm	349.5+Door Thickness mm	346.7+Door Thickness mm
AL-78-19	390.7+Door Thickness mm	387.9+Door Thickness mm	425.7+Door Thickness mm	422.9+Door Thickness mm
AL-78-24	517.7+Door Thickness mm	514.9+Door Thickness mm	552.7+Door Thickness mm	549.9+Door Thickness mm

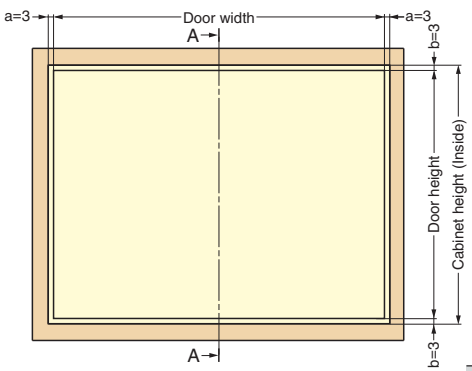




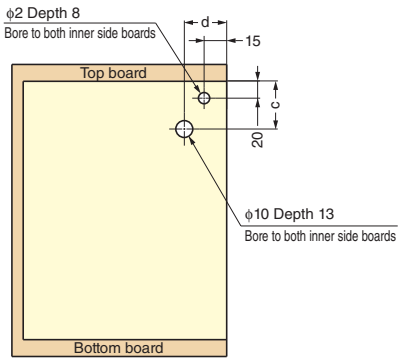


■Cut Out Dimensions

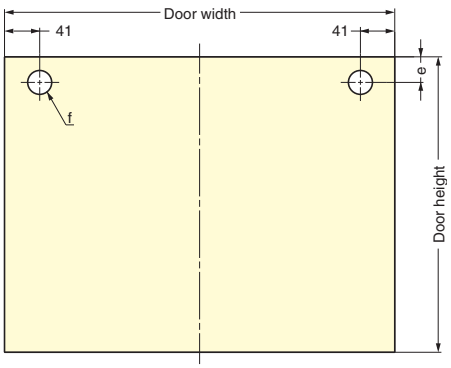
Cabinet front



Cabinet cutaway view (A-A)



Door cut out dimensions



Item Name	c	d	e	f	Weight
IF-102SL	37.5	9.5+Door Thickness	22.5	ϕ35 Depth 11	1200 g
IF-102SR	37.5	9.5+Door Thickness	22.5	ϕ35 Depth 11	1200 g
IF-102W	37.5	9.5+Door Thickness	22.5	ϕ35 Depth 11	1200 g
IF-H102SL	43.6	9.5+Door Thickness	25	ϕ40 Depth 15	1365 g
IF-H102SR	43.6	9.5+Door Thickness	25	ϕ40 Depth 15	1365 g
IF-H102W	43.6	9.5+Door Thickness	25	ϕ40 Depth 15	1365 g

●Necessary Parts····· **Parts Set** + **Rails**

Parts Set

Necessary Parts
1 set for 1 cabinet.

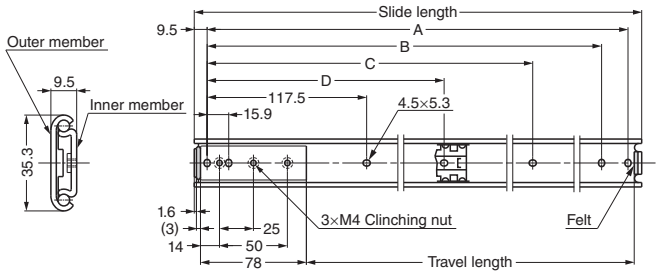
	Item Code	Item Name	Parts Included									
			①Bracket	②Roller	③Insert	④Slider	⑤Guard Plate	⑥Hinge 230-C26/19T	⑦Hinge H230-C26/26T	⑧Mounting Plate 230-P4W-32T	⑨Soft-down Stay NSDX-35L	⑩Soft-down Stay NSDX-35R
												
a	180-122-081	IF-102SL	2 pcs	2 pcs	2 pcs	2 pcs	4 pcs	2 pcs	—	2 pcs	1 pc	—
b	180-122-082	IF-102SR	2 pcs	2 pcs	2 pcs	2 pcs	4 pcs	2 pcs	—	2 pcs	—	1 pc
c	180-122-083	IF-102W	2 pcs	2 pcs	2 pcs	2 pcs	4 pcs	2 pcs	—	2 pcs	1 pc	1 pc
d	180-122-084	IF-H102SL	2 pcs	2 pcs	2 pcs	2 pcs	4 pcs	2 pcs	2 pcs	2 pcs	1 pc	—
e	180-122-085	IF-H102SR	2 pcs	2 pcs	2 pcs	2 pcs	4 pcs	2 pcs	2 pcs	2 pcs	—	1 pc
f	180-122-086	IF-H102W	2 pcs	2 pcs	2 pcs	2 pcs	4 pcs	2 pcs	2 pcs	2 pcs	1 pc	1 pc

* d e f: Please use ☐ only. (Do not use ▭.)
*Choose either right/left-handed for the stay of IF-102S.

Rails

Necessary Parts
2 pcs are necessary for 1 cabinet.

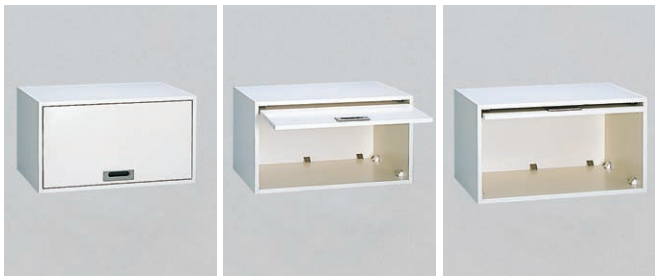
No.	Slide Length	Qty	Item Code / Item Name	Parts Name	Description
⑪	Slide Length 355.6 mm	1 pc	190-113-945 AL-78-14	Rail	●Material Steel ●Finish Clear Zinc Chromate
	Slide Length 406.4 mm	1 pc	190-113-942 AL-78-16		
	Slide Length 482.6 mm	1 pc	190-113-943 AL-78-19		
	Slide Length 609.6 mm	1 pc	190-113-944 AL-78-24		

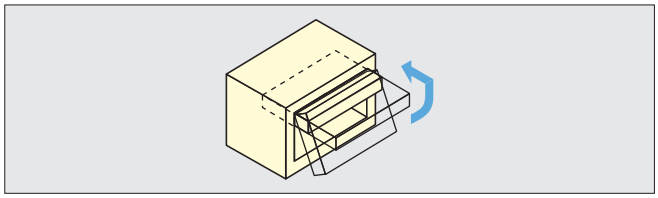


Item Name	Slide Length	Travel Length	A	B	C	D	Weight	Carton
AL-78-14	355.6	267.6	336.6	320.7	219.1	—	274 g	20 pcs
AL-78-16	406.4	318.4	387.4	371.5	269.9	—	308 g	20 pcs
AL-78-19	482.6	394.6	463.6	447.7	346.1	231.8	357 g	40 pcs
AL-78-24	609.6	521.6	590.6	574.7	473.1	295.3	450 g	40 pcs

INSET RECEDING DOOR MECHANISM

STEEL **ALT-3H**



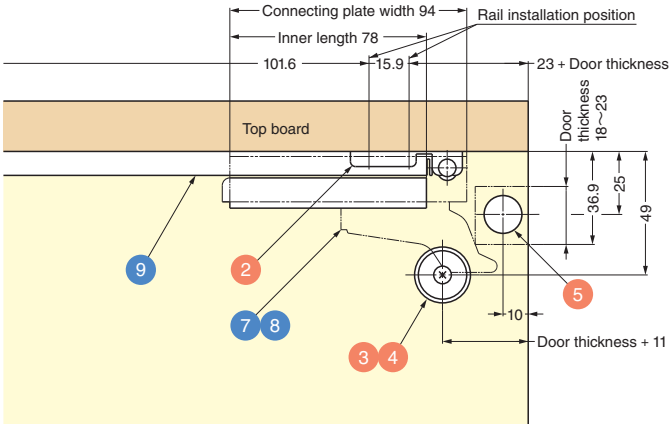


Door Width	Max. 870 mm
Door Height	Max. 600 mm
Door Thickness	18 ～ 23 mm
Door Weight	Max. 5 kg

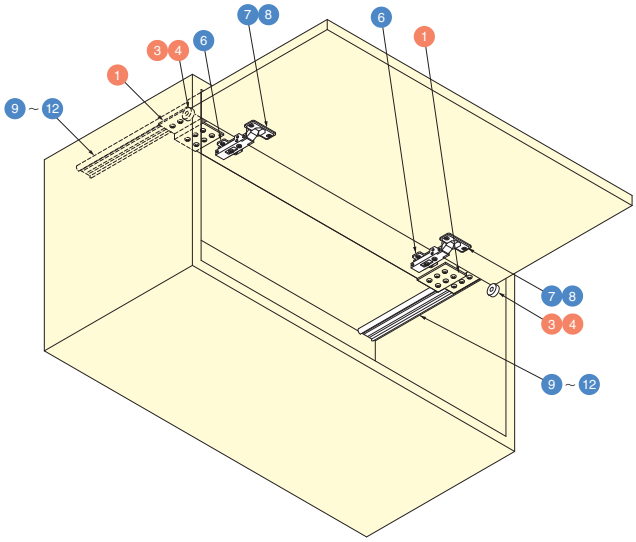
■Features

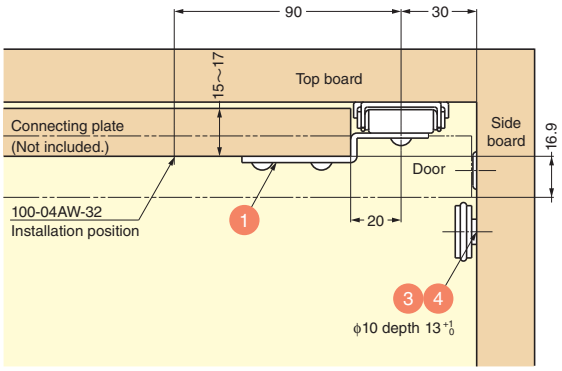
- Saves space inside the cabinet, giving a freedom of storage not possible with other common mechanism.
- Easy installation.

Item Name	Door Storage	Cabinet Depth
AL-78-14	266+Door Thickness mm	Min. 371
AL-78-16	317+Door Thickness mm	Min. 422
AL-78-19	393+Door Thickness mm	Min. 498
AL-78-24	520+Door Thickness mm	Min. 625



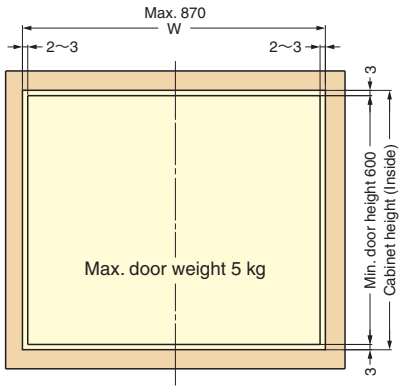
■Installation



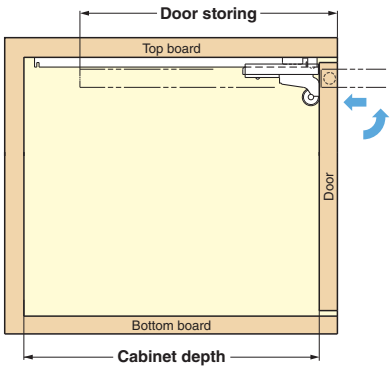


■Cut Out Dimensions

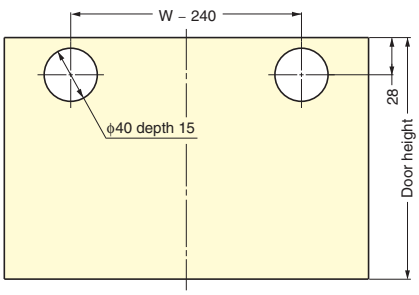
Cabinet front



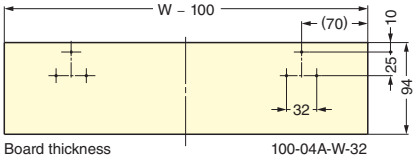
Cabinet cutaway view



Door cut out dimensions



Connecting plate (Wooden)

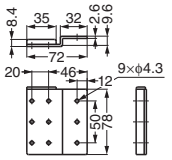
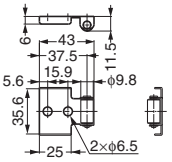
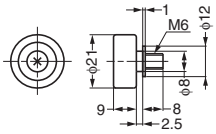
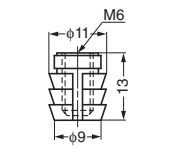
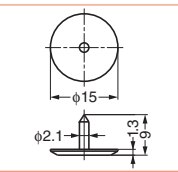


●Necessary Parts····· **Parts Set** + **Mounting Plate** + **Concealed Hinge (Body)** + **Rails**

Parts Set — Necessary Parts

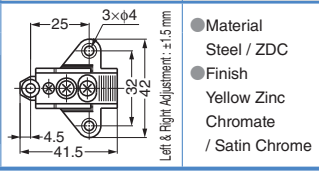
Item Code	Item Name
180-110-587	ALT-3HP

Parts Included

No.	Qty	Parts Name	Dimensions	Description
1	1 pair (left and right)	Adapter HR, HL		●Material Steel ●Finish Yellow Zinc Chromate
2	2 pcs	Door Stopper		**Item Code : 180-930-416** **Item Name : ALT-AD** ●Material UR / Steel ●Finish Clear Zinc Chromate / White
3	2 pcs	Roller		**Item Code : 180-940-144** **Item Name : DU19-B4SBR** ●Material EPDM / Steel ●Finish Clear Zinc Chromate / White
4	2 pcs	Insert		**Item Code : 120-041-310** **Item Name : SC-107-13** ●Material PA ●Finish White
5	2 pcs	Slider		**Item Code : 210-030-122** **Item Name : F-15** ●Material POM ●Finish Natural

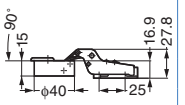
Mounting Plate — Necessary Parts

2 pcs are necessary for 1 door.

No.	Qty	Item Code	Parts Name	Dimensions	Description
6	1 pc	160-074-116 / 100-04A-W-32	Mounting Plate		●Material Steel / ZDC ●Finish Yellow Zinc Chromate / Satin Chrome

Concealed Hinge (Body) — Necessary Parts

Choose either 7/8.
2 pcs are necessary for 1 door.

No.	Catch	Qty	Item Code	Parts Name	Dimensions	Description
7	w/ Catch	1 pc	160-073-581 / H90-C34/18	Concealed Hinge (Body)		●Material Steel ●Finish Satin Chrome
8	w/o Catch	1 pc	160-073-577 / H90-34/18			

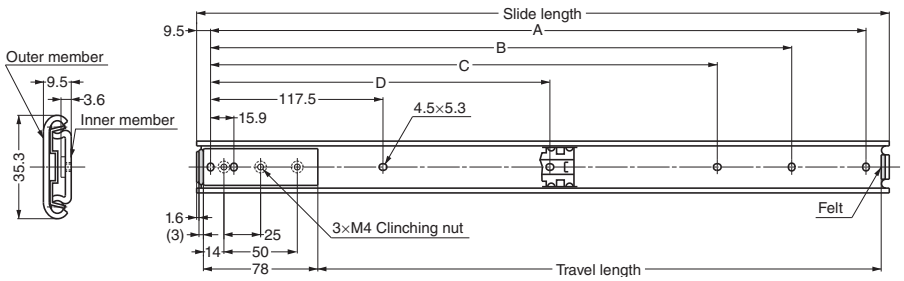
Rails — Necessary Parts

Choose either 9/10/11/12.
2 pcs are necessary for 1 door.

No.	Slide Length	Qty	Item Code	Parts Name	Dimensions	Description
9	355.6 mm	1 pc	190-113-945 / AL-78-14	Rail	See below.	●Material Steel ●Finish Clear Zinc Chromate
10	406.4 mm	1 pc	190-113-942 / AL-78-16			
11	482.6 mm	1 pc	190-113-943 / AL-78-19			
12	609.6 mm	1 pc	190-113-944 / AL-78-24			

■Rails (Sold Separately)





Item Name	Slide Length	Travel Length	A	B	C	D	Weight	Carton
AL-78-14	355.6	267.6	336.6	320.7	219.1	—	274 g	20 pcs
AL-78-16	406.4	318.4	387.4	371.5	269.9	—	308 g	20 pcs
AL-78-19	482.6	394.6	463.6	447.7	346.1	231.8	357 g	40 pcs
AL-78-24	609.6	521.6	590.6	574.7	473.1	295.3	450 g	40 pcs

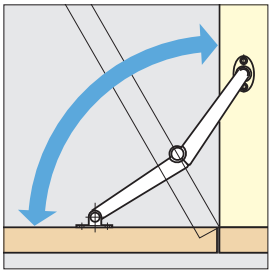
LID STAY

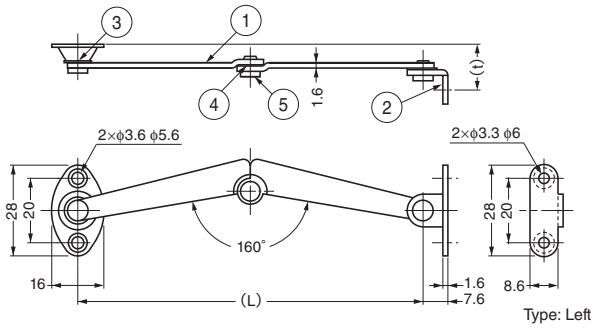
S-24, S-27, S-25



Type: Right

■Installation (Left Side)





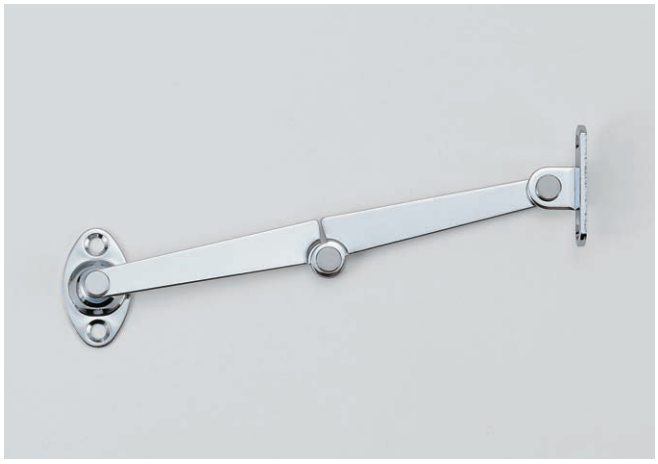
Type: Left

No.	Part Name	Material	Finish
①	Body	Steel	Chrome
②	Bracket	Steel	Chrome
③	Washer	Steel	Chrome
④	Washer	Polyamide (PA)	Natural
⑤	Axis	Brass	Chrome

Item Code	Item Name	Type	L	t	Tension Force	Weight	Box	Carton
180-100-144	S-24R	Right	105.5	13.6	326 N (33.3 kgf)	21 g	100 pcs	1000 pcs
180-100-145	S-24L	Left	105.5	13.6		21 g	100 pcs	1000 pcs
180-100-148	S-27R	Right	133	13.6	325 N (33.2 kgf)	32 g	60 pcs	600 pcs
180-100-149	S-27L	Left	133	13.4		32 g	60 pcs	600 pcs
180-100-146	S-25R	Right	163	13.6	287 N (29.3 kgf)	35 g	60 pcs	600 pcs
180-100-147	S-25L	Left	163	13.4		35 g	60 pcs	600 pcs

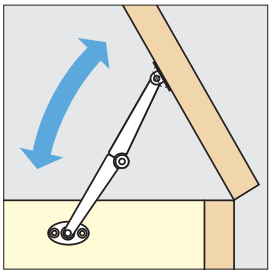
LID STAY

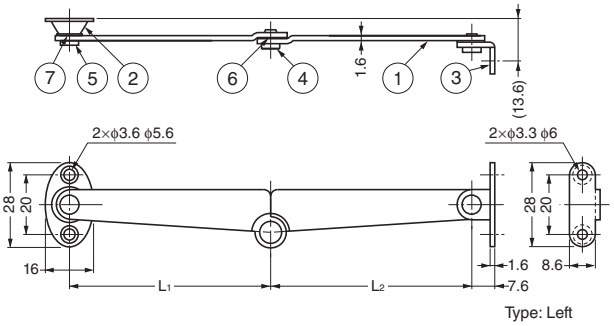
S-6, S-16



Type: Left

■Installation (Left Side)





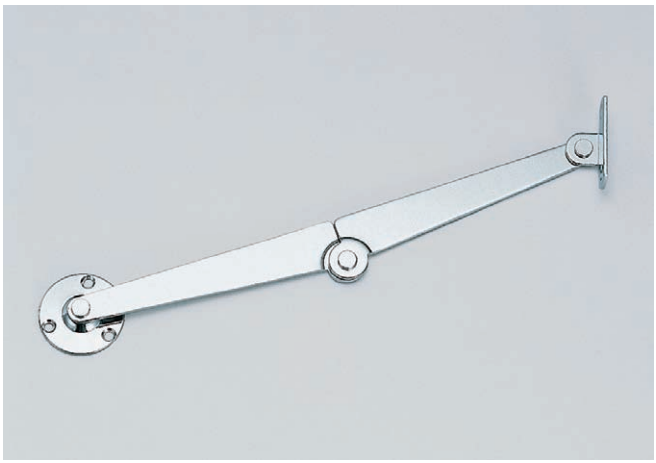
Type: Left

No.	Part Name	Material	Finish
①	Body	Steel	Chrome
②	Mounting Plate	Steel	Chrome
③	Bracket	Steel	Chrome
④	Center Axis	Brass	Chrome
⑤	Axis	Brass	Chrome
⑥	Washer A	Polyamide (PA)	Natural
⑦	Washer B	Polyamide (PA)	Natural

Item Code	Item Name	Type	L_1	L_2	Tension Force	Weight	Box	Carton
180-100-132	S-6R	Right	53	53	318 N (32.4 kgf)	20 g	100 pcs	1000 pcs
180-100-133	S-6L	Left	53	53		20 g	100 pcs	1000 pcs
180-100-134	S-16R	Right	67	67	336 N (34.3 kgf)	31 g	60 pcs	600 pcs
180-100-135	S-16L	Left	67	67		31 g	60 pcs	600 pcs

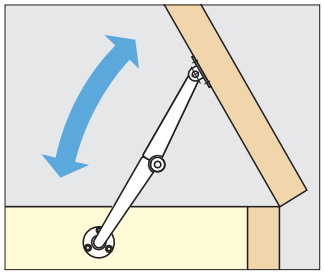
LID STAY

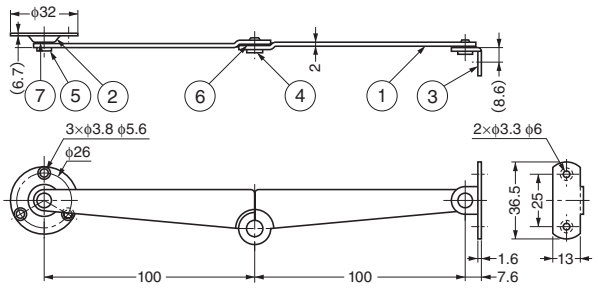
S-19



Type: Left

■Installation (Left Side)





Type: Left

No.	Part Name	Material	Finish
①	Body	Steel	Chrome
②	Bracket	Steel	Chrome
③	Bracket	Steel	Chrome
④	Center Axis	Brass	Chrome
⑤	Axis	Brass	Chrome
⑥	Washer A	Polyamide (PA)	—
⑦	Washer B	Polyamide (PA)	—

Item Code	Item Name	Type	Tension Force	Weight	Box	Carton
180-100-136	S-19R	Right	425 N (43.4 kgf)	66 g	50 pcs	300 pcs
180-100-137	S-19L	Left		66 g	50 pcs	300 pcs

LID STAY (W/ CATCH)

S-20

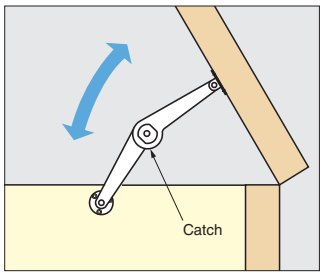


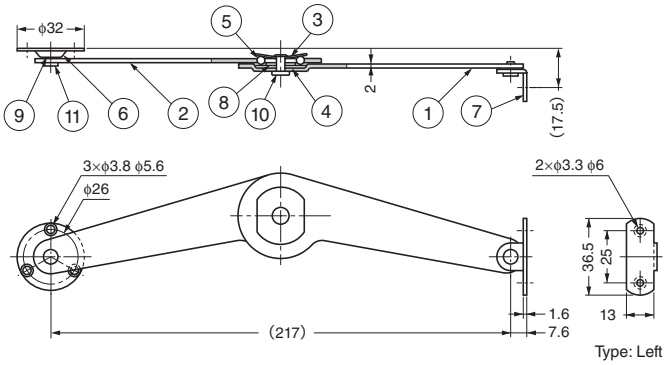
Type: Left

■Features

With catch.

■Installation (Left Side)





Type: Left

No.	Part Name	Material	Finish
①	Body A	Steel	Chrome
②	Body B	Steel	Chrome
③	Spring A	Steel	Chrome
④	Spring B	Steel	—
⑤	Ball	Steel	—
⑥	Bracket	Steel	Chrome
⑦	Bracket	Steel	Chrome
⑧	Washer	Steel	Nickel
⑨	Washer	Polyamide (PA)	—
⑩	Center Axis	Steel	Chrome
⑪	Axis	Brass	Chrome

Item Code	Item Name	Type	Tension Force	Weight	Box	Carton
180-100-138	S-20R	Right	410 N (41.8 kgf)	122 g	40 pcs	160 pcs
180-100-139	S-20L	Left		122 g	40 pcs	160 pcs

LID STAY (W/ CATCH) S-21



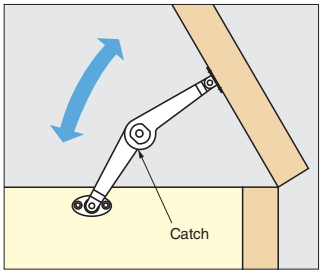
Type: Left

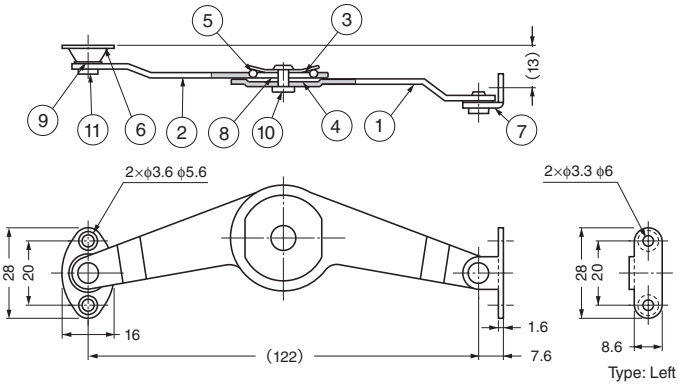
No.	Part Name	Material	Finish
①	Body A	Steel	Chrome
②	Body B	Steel	Chrome
③	Spring A	Steel	—
④	Spring B	Steel	—
⑤	Balls	Steel	—
⑥	Mounting Plate	Steel	Chrome
⑦	Bracket	Steel	Chrome
⑧	Washer	Steel	Yellow Zinc Chromate
⑨	Washer	Polyamide (PA)	Natural
⑩	Center Axis	Brass	Chrome
⑪	Axis	Brass	Chrome

■Features

With catch.

■Installation (Left Side)

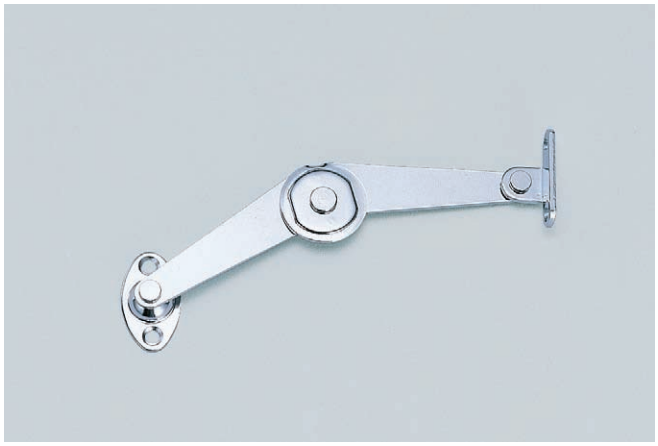




Type: Left

Item Code	Item Name	Type	Tension Force	Weight	Box	Carton
180-100-140	S-21R	Right	309 N (31.5 kgf)	49 g	50 pcs	500 pcs
180-100-141	S-21L	Left		49 g	50 pcs	500 pcs

LID STAY (W/ CATCH) S-23



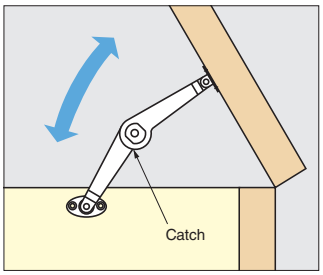
Type: Left

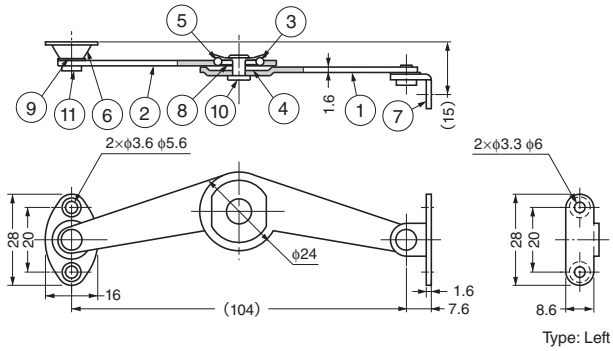
No.	Part Name	Material	Finish
①	Body A	Steel	Chrome
②	Body B	Steel	Chrome
③	Spring A	Stainless Steel (SUS301)	—
④	Spring B	Stainless Steel (SUS301)	—
⑤	Balls	Steel	—
⑥	Mounting Plate	Steel	Chrome
⑦	Bracket	Steel	Chrome
⑧	Washer	Steel	Yellow Zinc Chromate
⑨	Washer	Polyamide (PA)	—
⑩	Center Axis	Brass	Chrome
⑪	Axis	Brass	Chrome

■Features

With catch.

■Installation (Left Side)



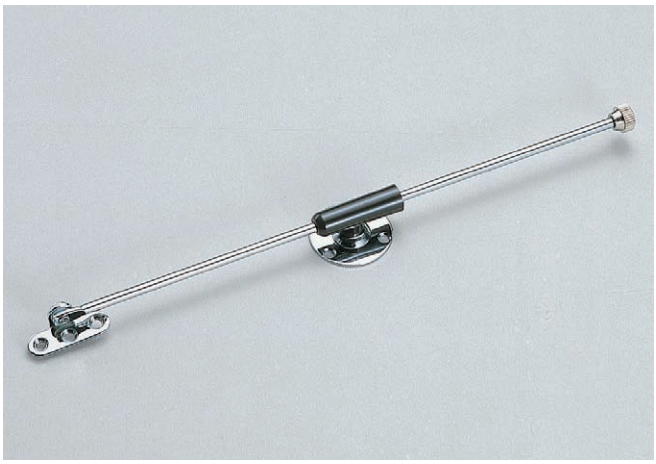


Type: Left

Item Code	Item Name	Type	Tension Force	Weight	Box	Carton
180-100-142	S-23R	Right	298 N (30.4 kgf)	33 g	50 pcs	500 pcs
180-100-143	S-23L	Left		33 g	50 pcs	500 pcs

LID STAY

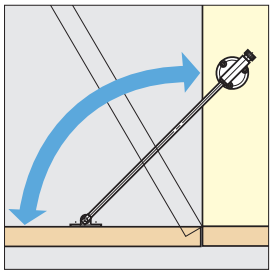
L=R **S-35**

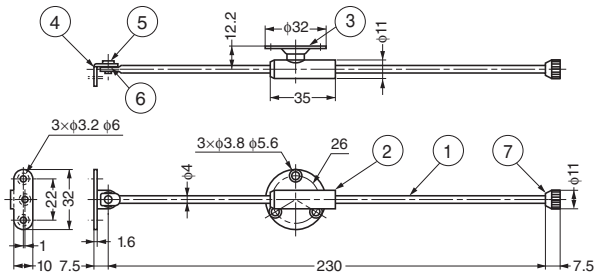


■Features

Non-handed.

■Installation





No.	Part Name	Material	Finish/Colour
①	Arm	Steel	Chrome
②	Arm Guide	Polyamide (PA)	Brown
③	Bracket	Steel	Chrome
④	Bracket	Steel	Chrome
⑤	Axis	Brass	Chrome
⑥	N Washer	Polyamide (PA)	—
⑦	Nut	Brass	Nickel

Item Code	Item Name	Weight	Box	Carton
180-100-151	S-35	44 g	60 pcs	300 pcs

LID STAY

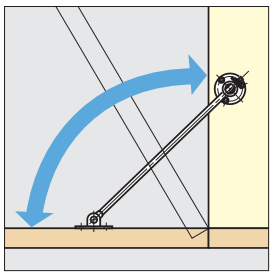
L=R **S-34**

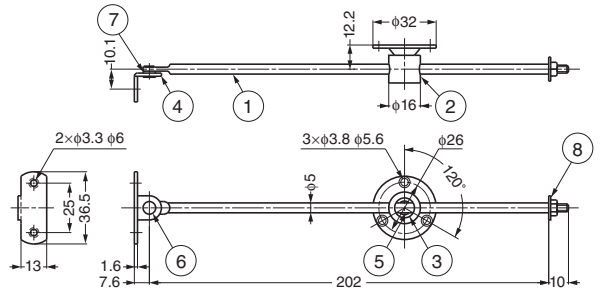


■Features

Non-handed.

■Installation



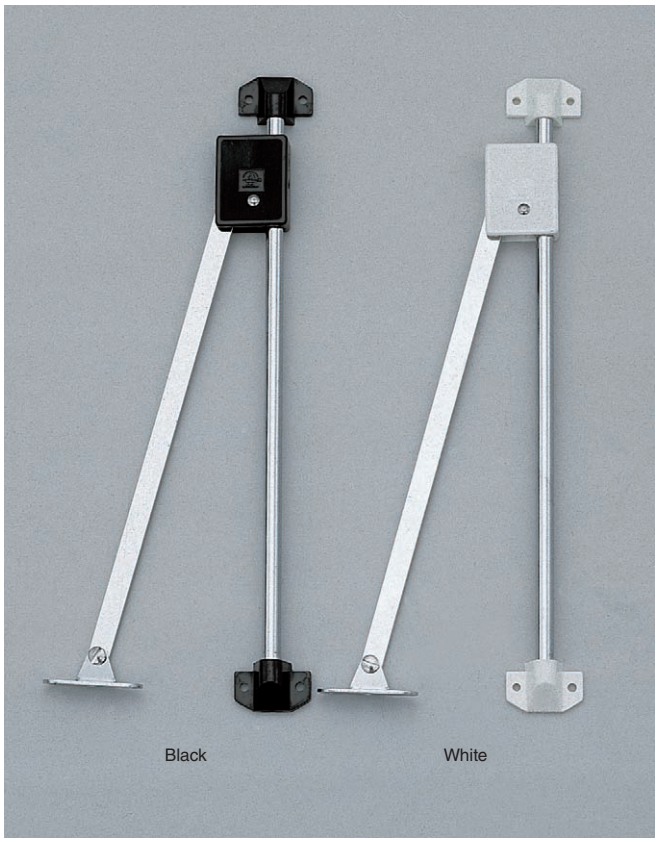


No.	Part Name	Material	Finish/Colour
①	Arm	Steel	Chrome
②	Arm Guide	Polyamide (PA)	Natural
③	Bracket	Steel	Chrome
④	Bracket	Steel	Chrome
⑤	Axis A	Steel	Yellow Zinc Chromate
⑥	Axis B	Brass	Chrome
⑦	Washer	Polyamide (PA)	—
⑧	Flanged Hexagon Nut	Steel	Nickel

Item Code	Item Name	Weight	Box	Carton
180-100-150	S-34	54 g	60 pcs	300 pcs

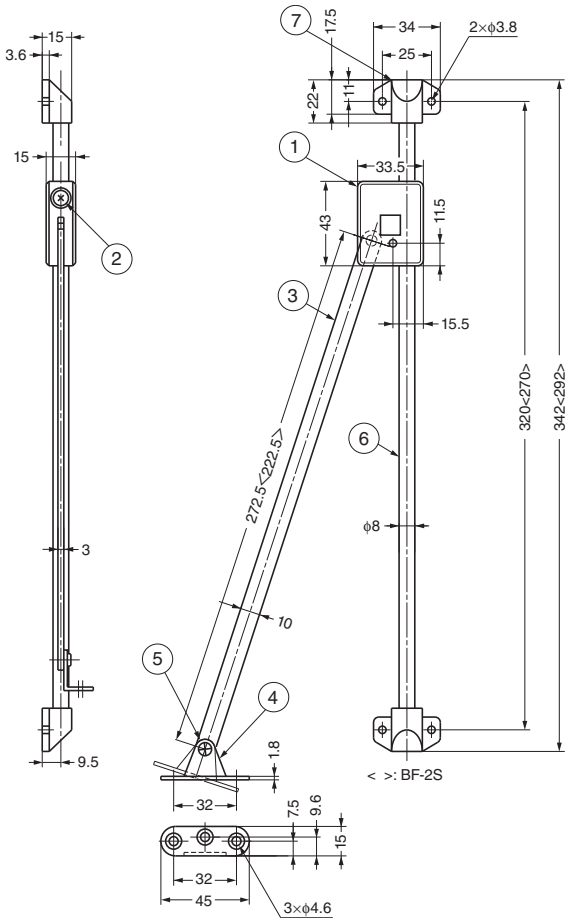
LID STAY

L=R **BF-2**

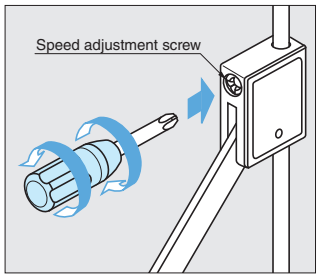


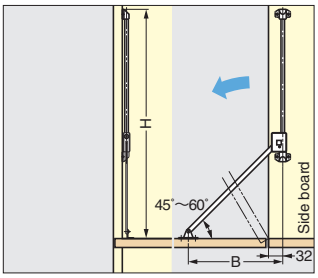
■Features

- Speed adjustable.
- Non-handed.
- Door size: Door width 900 mm×door height 400mm (Max. door weight 6 kg).



■Speed Adjustment





No.	Part Name	Material	Finish/Colour
①	Brake	Polyacetal (POM)	White/Black
②	Speed Adjustment Screw	Steel	Chrome
③	Stay	Steel	Chrome
④	Bracket	Steel	Chrome
⑤	Screw	Steel	Chrome
⑥	Rod	Steel	Chrome
⑦	Bracket	Polyamide (PA)	White/Black

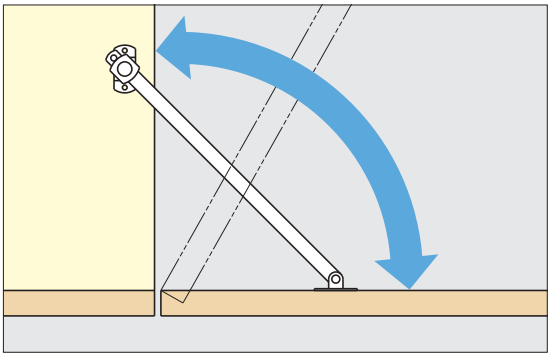
Item Code	Item Name	Colour	H		B		Weight	Box	Carton
			Max. (60°)	Min. (45°)	Max. (60°)	Min. (45°)			
180-100-010	BF-2SW	White	459	424	130	177	195 g	10 pcs	100 pcs
180-100-011	BF-2SB	Black	459	424	130	177	195 g	10 pcs	100 pcs
180-100-012	BF-2LW	White	552	509	156	212	225 g	10 pcs	100 pcs
180-100-013	BF-2LB	Black	552	509	156	212	225 g	10 pcs	100 pcs

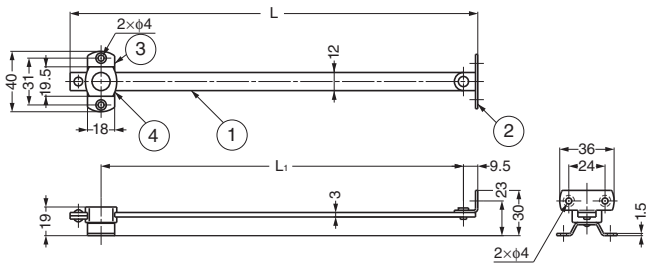
LID STAY

L=R STAINLESS 304 STEEL **HS**



■Installation





No.	Part Name	Material	Finish/Colour
①	Arm	Stainless Steel (SUS304)	Satin
②	Bracket	Stainless Steel (SUS304)	Satin
③	Mounting Plate	Stainless Steel (SUS304)	Satin
④	Bracket	Polyamide (PA)	White

Item Code	Item Name	L	L1	Weight	Box	Carton
180-100-020	HS-180	210	180	80 g	20 pcs	220 pcs
180-100-021	HS-210	240	210	90 g	20 pcs	220 pcs
180-100-022	HS-240	270	240	100 g	20 pcs	220 pcs

LID STAY

KLS



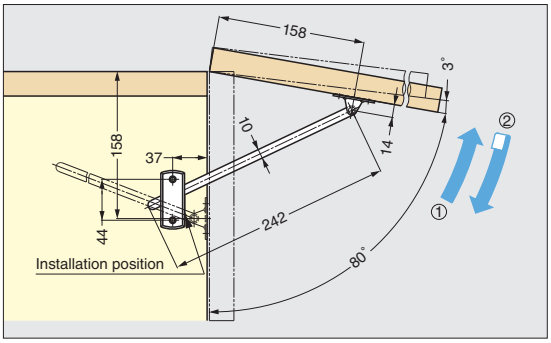
■Features

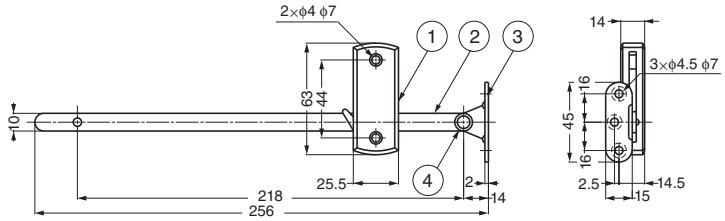
- With stopper.
- Lift up the door to release the stopper.

■Remarks

- Right side installation only.
- Max. door height is 300 mm.

■Installation (With Single Knuckle Hinge)





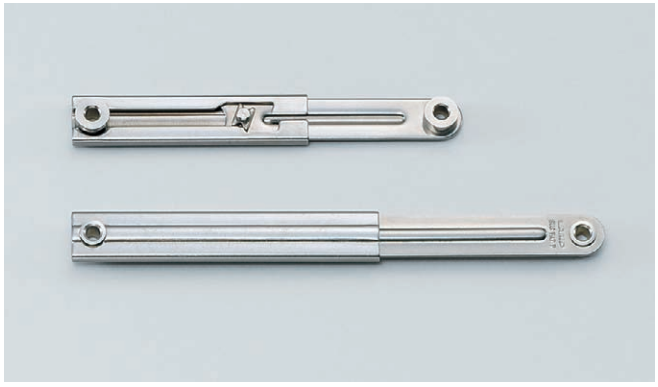
No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	White
②	Arm	Steel	Nickel
③	Bracket	Steel	Nickel
④	Spring	Steel	—

Item Code	Item Name	Door Weight	Weight	Box	Carton
180-100-052	KLS	Max. 8 kg	85 g	20 pcs	200 pcs

ULTRA MINI LID STAY

TEST METHOD 16 | L=R | STAINLESS 304 STEEL | STAINLESS 303 STEEL

L-100S, L-140S



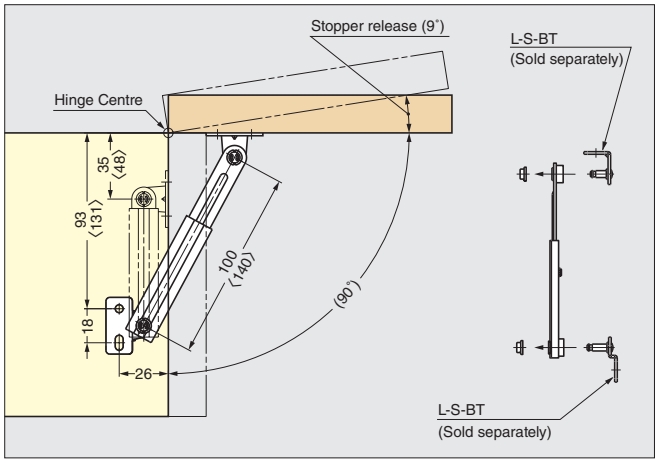
■Features

- Holds the lid at open position.
- Lift up the lid to release.
- Compact design.
- Non-handed.

■Sold Separately

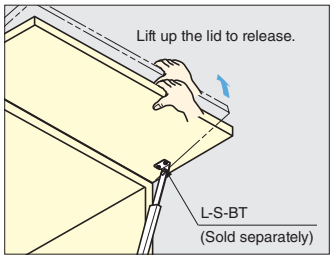
Mounting bracket L-S-BT (below)

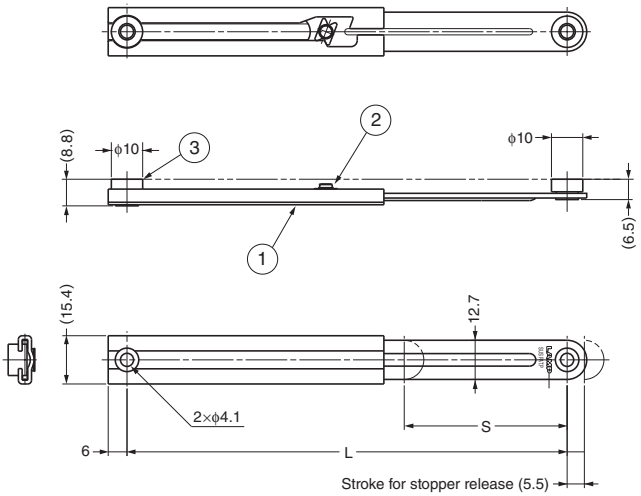
■Installation



< >: L-140S

■Stopper Release





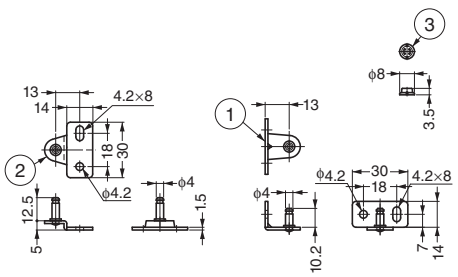
No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Polished
②	Washer	Polyamide (PA)	–
③	Case Bracket	Stainless Steel (SUS303)	–

Item Code	Item Name	Load Capacity		L	S	Weight	Box	Carton
180-109-118	L-100S	58.8 N/pc	6 kgf/pc	100	32	31 g	30 pcs	300 pcs
180-100-105	L-140S	58.8 N/pc	6 kgf/pc	140	52	38 g	30 pcs	300 pcs

MOUNTING BRACKET

L-S-BT





■Features

- Optional brackets for L-100S and L-140S stays (above).
- Brackets for arm and case sold as set.

■Remarks

Do not re-use the bracket. Plastic bushing may become loose once taken off from stay.

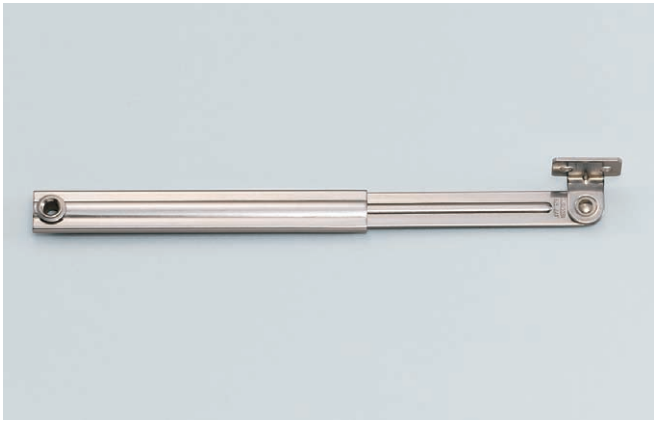
No.	Part Name	Material	Finish/Colour
①	Arm Bracket	Stainless Steel (SUS304)	Polished
②	Case Bracket	Stainless Steel (SUS304)	Polished
③	Cap	Polyacetal (POM)	White

Item Code	Item Name	Weight	Box	Carton
180-100-620	L-S-BT	17 g	40 sets	400 sets

LOW PROFILE LID STAY

TEST METHOD 16 | L=R | STAINLESS 304 STEEL

L-200P



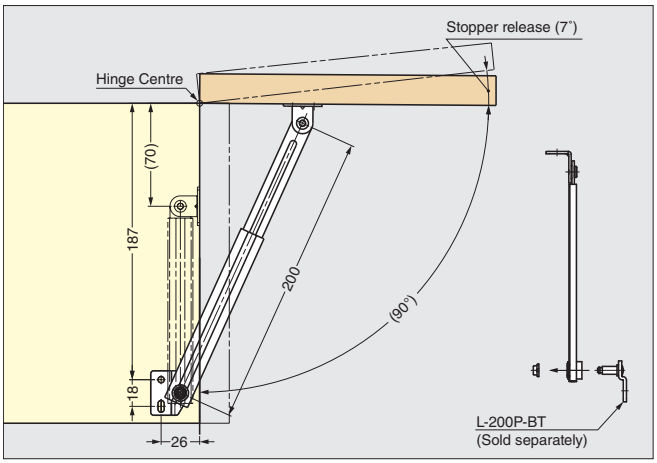
■Features

- Holds the lid at open position.
- Compact design.
- Non-handed.

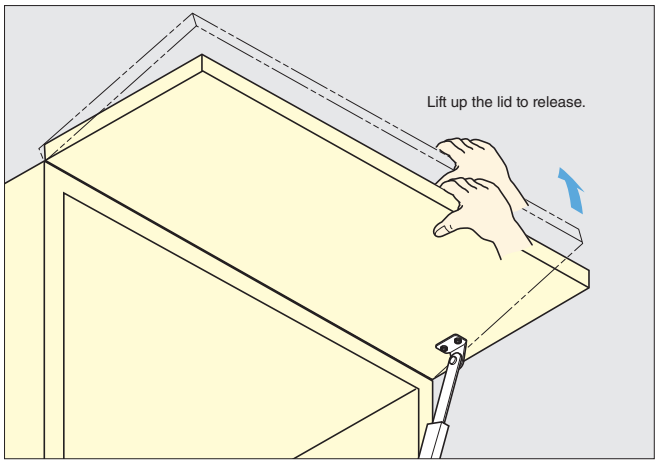
■Sold Separately

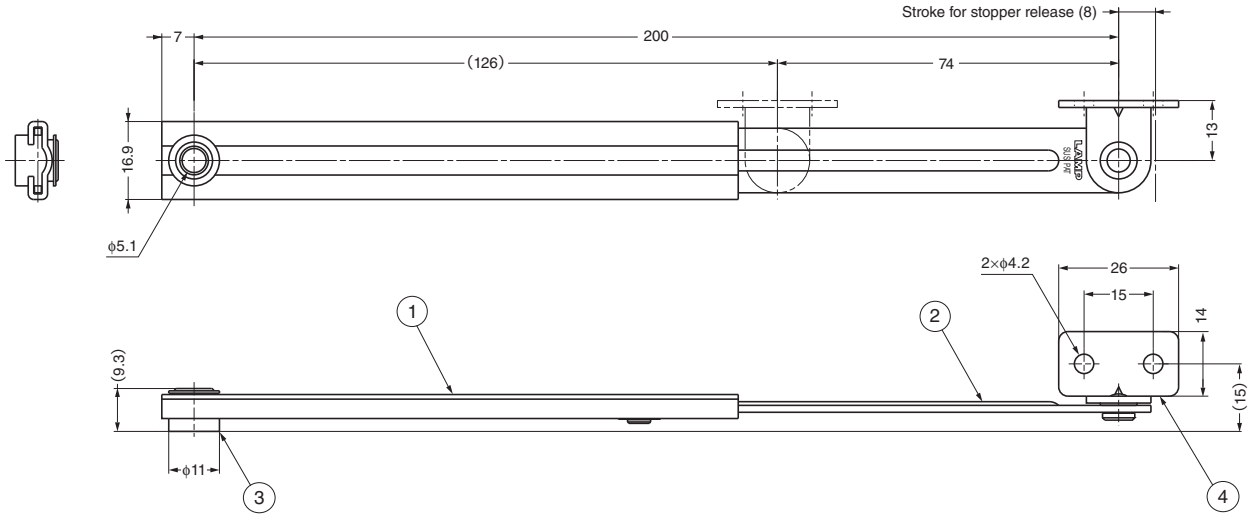
Mounting bracket L-200P-BT (P.543)

■Installation



■Stopper Release



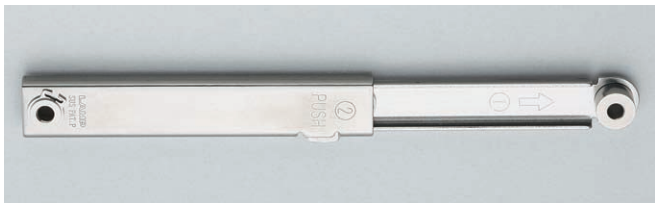


No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Polished
②	Arm	Stainless Steel (SUS304)	Polished
③	Case Bracket	Stainless Steel (SUS303)	—
④	Arm Bracket	Stainless Steel (SUS304)	Polished

Item Code	Item Name	Load Capacity		Weight	Box	Carton
180-100-104	L-200P	147 N/pc	15 kgf/pc	68 g	30 pcs	300 pcs

MINI LID STAY (W/ LOCK)

L=R STAINLESS 304 STEEL **L-SL140**



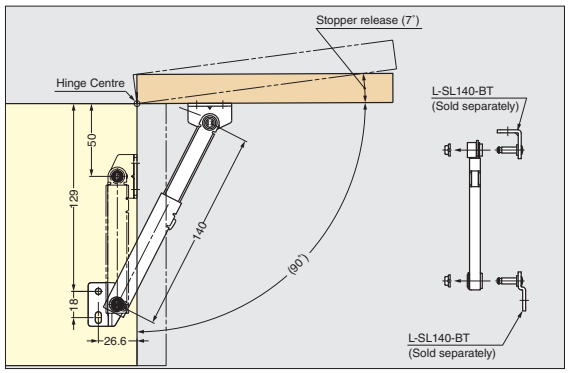
■Features

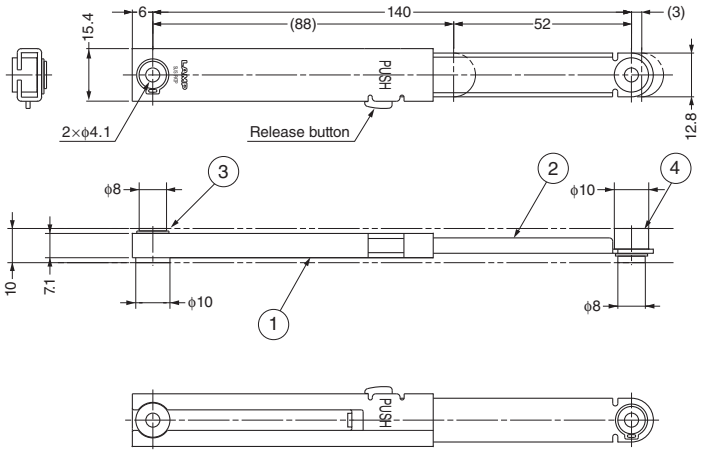
- Holds the lid at open position.
- Push button to release the lock.
- Compact design.
- Non-handed.

■Sold Separately

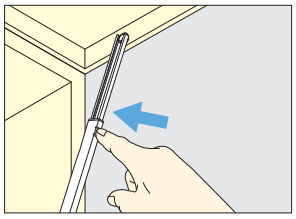
Mounting bracket L-SL140-BT (P.543)

■Installation





■Lock Release

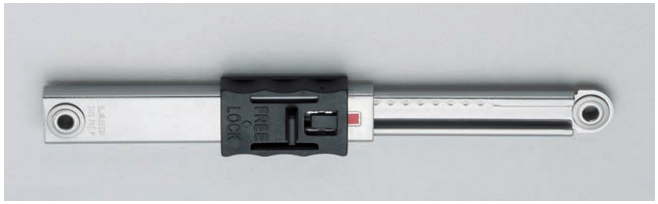


No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Polished
②	Arm	Stainless Steel (SUS304)	Polished
③	Case Bracket	Stainless Steel (SUS304)	—
④	Arm Bracket	Stainless Steel (SUS304)	—

Item Code	Item Name	Load Capacity		Weight	Box	Carton
180-109-354	L-SL140	147 N/pc	15 kgf/pc	51 g	30 pcs	300 pcs

MINI LID STAY (W/ LOCK)

TEST METHOD 16 L=R STAINLESS 304 STEEL **L-FS140**



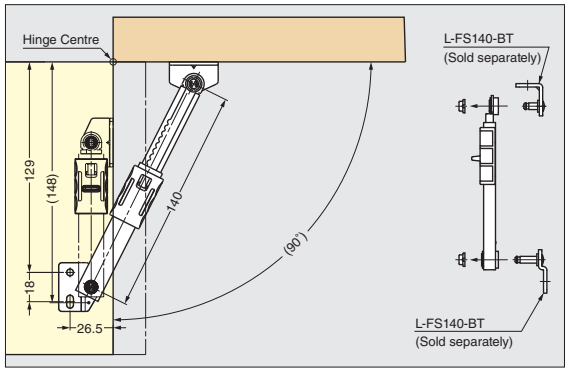
■Features

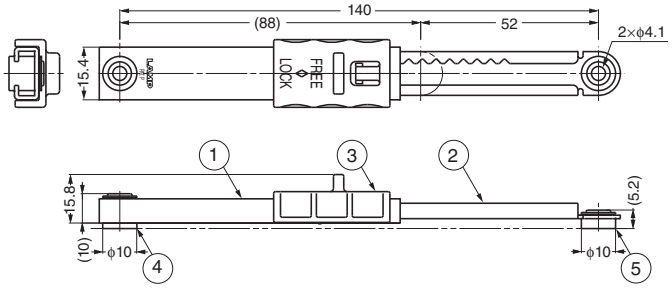
- Locks the lid at multiple angles.
- For upward-opening, top-opening and swinging doors.
- Can be used singly or in pair.
- Non-handed.

■Sold Separately

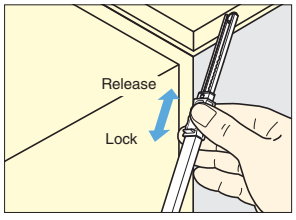
Mounting bracket L-FS140-BT (P.543)

■Installation





■Lock and Release



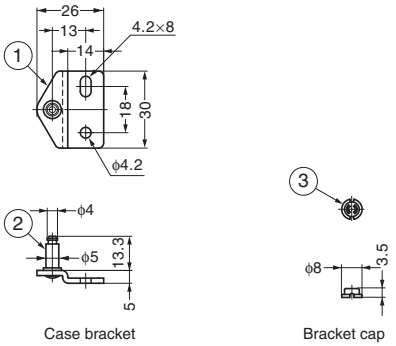
No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Polished
②	Arm	Stainless Steel (SUS304)	Polished
③	Lock Lever	Polyacetal (POM)	Dark Grey
④	Case Bracket	Stainless Steel (SUS304)	—
⑤	Arm Bracket	Stainless Steel (SUS304)	—

Item Code	Item Name	Load Capacity		Weight	Box	Carton
180-100-108	L-FS140	58.8 N/pc	6 kgf/pc	50 g	20 pcs	200 pcs

BRACKET

L-200P-BT





■Features
- Bracket for L-200P.
- One-touch installation with the bracket cap.
- See P.541 for installation details.

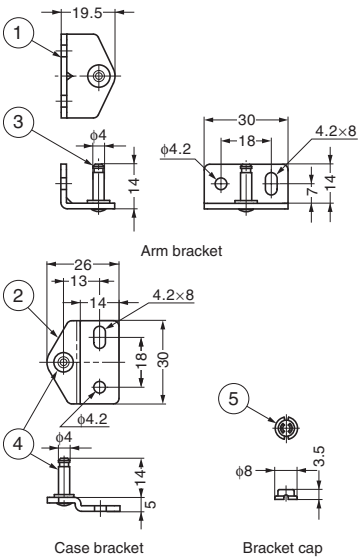
Item Code	Item Name	Weight	Box	Carton
180-028-721	L-200P-BT	14 g	30 pcs	300 pcs

No.	Part Name	Material	Finish/Colour
①	Case Bracket	Stainless Steel (SUS304)	Polished
②	Axis of Case Bracket	Stainless Steel (SUS303)	Plain
③	Fix Cap for Bracket	Polyacetal (POM)	Black

BRACKET

L-SL140-BT





■Features
- Bracket for L-SL140.
- One-touch installation with the bracket cap.
- See P.542 for installation details.

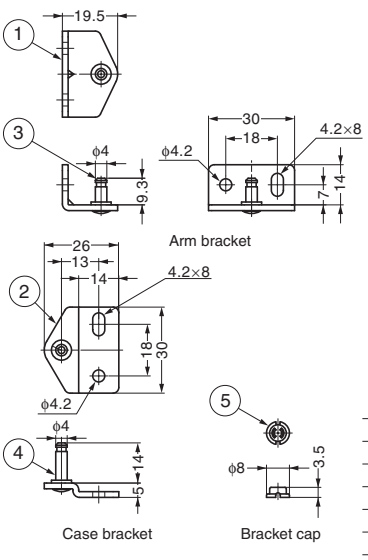
Item Code	Item Name	Weight	Box	Carton
180-028-719	L-SL140-BT	28 g	30 pcs	300 pcs

No.	Part Name	Material	Finish/Colour
①	Arm Bracket	Stainless Steel (SUS304)	Polished
②	Case Bracket	Stainless Steel (SUS304)	Polished
③	Axis of Arm Bracket	Stainless Steel (SUS303)	Plain
④	Axis of Case Bracket	Stainless Steel (SUS303)	Plain
⑤	Fix Cap for Bracket	Polyacetal (POM)	Black

BRACKET

L-FS140-BT





■Features
- Bracket for L-FS140.
- One-touch installation with the bracket cap.
- See P.542 for installation details.

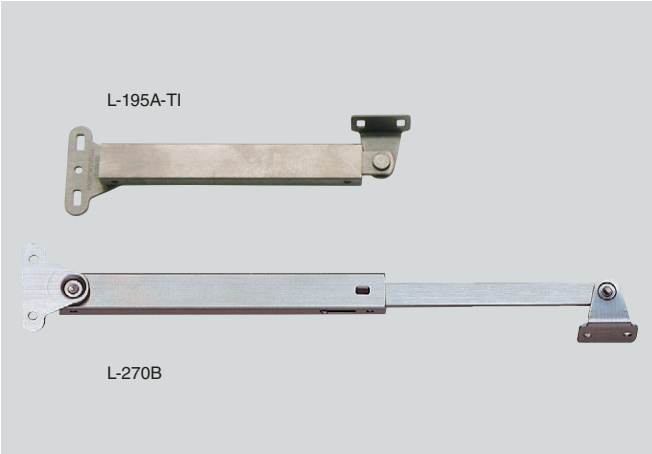
Item Code	Item Name	Weight	Box	Carton
180-028-720	L-FS140-BT	27 g	40 pcs	400 pcs

No.	Part Name	Material	Finish/Colour
①	Arm Bracket	Stainless Steel (SUS304)	Polished
②	Case Bracket	Stainless Steel (SUS304)	Polished
③	Axis of Arm Bracket	Stainless Steel (SUS303)	Plain
④	Axis of Case Bracket	Stainless Steel (SUS303)	Plain
⑤	Fix Cap for Bracket	Polyacetal (POM)	Black

LID STAY

TEST METHOD 16 | L=R | STAINLESS 304 STEEL

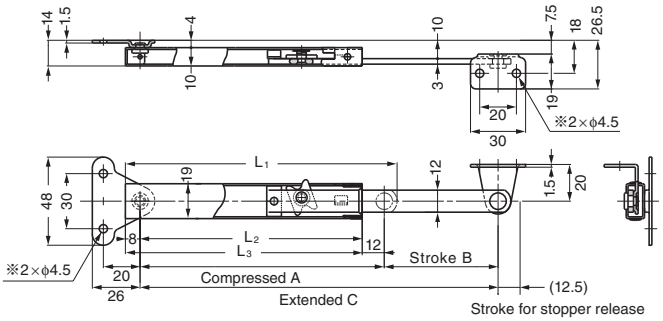
L-195, L-270



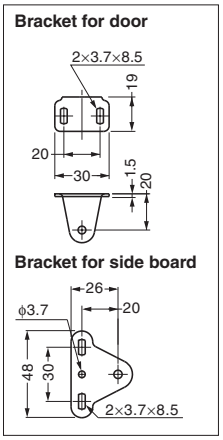
■Features

- Holds the lid at open position.
- Lift up the lid to release.
- Only one stay is required per lid.
- Non-handed.

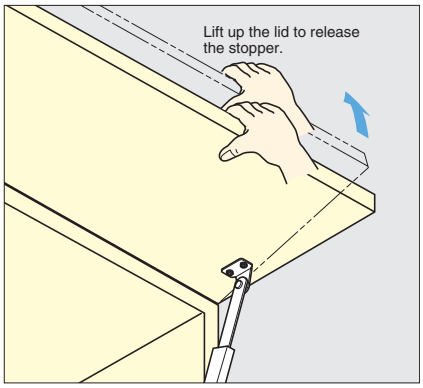
L-195B/L-270B



L-195A/L-270A



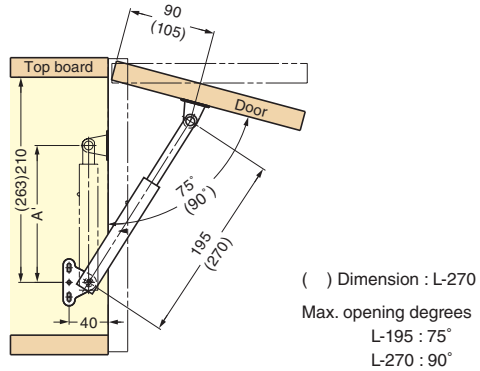
■Stopper Release



※Type A and B are different in hole shape.

Item Code	Item Name	Material	Finish	L1	L2	L3	A	B	C	Approx. Door Height	Load Capacity	Weight	Box	Carton
180-100-114	L-195A	Stainless Steel (SUS304)	Satin	148	121	129	133	62	195	250～350		120 g	10 pcs	100 pcs
180-100-115	L-195B	Stainless Steel (SUS304)	Satin	148	121	129	133	62	195	250～350		125 g	10 pcs	100 pcs
180-100-118	L-195A-TI	Titanium	Satin	148	121	129	133	62	195	250～350	147 N/pc	71 g	10 pcs	100 pcs
180-100-116	L-270A	Stainless Steel (SUS304)	Satin	185	158	166	170	100	270	320～500	(15 kgf/pc)	150 g	10 pcs	100 pcs
180-100-117	L-270B	Stainless Steel (SUS304)	Satin	185	158	166	170	100	270	320～500		183 g	10 pcs	100 pcs
180-100-119	L-270A-TI	Titanium	Satin	185	158	166	170	100	270	320～500		87 g	10 pcs	100 pcs

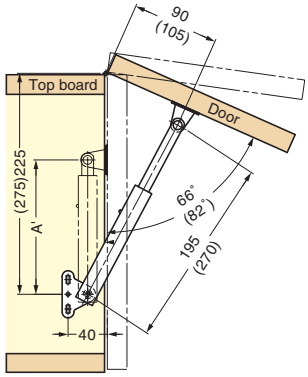
■With Concealed Hinge



( ) Dimension : L-270

Max. opening degrees
L-195 : 75°
L-270 : 90°

■With Single Knuckle Hinge



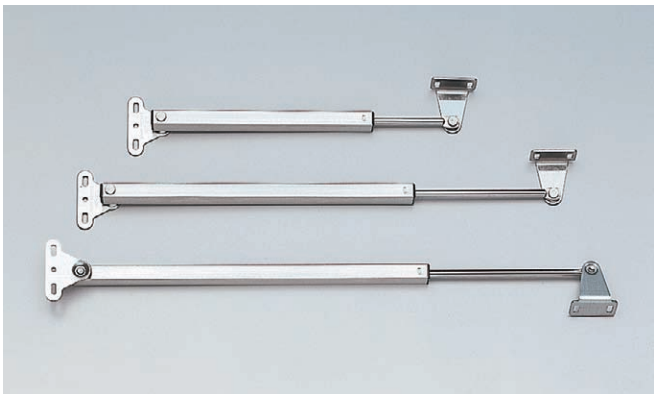
( ) Dimension : L-270

Max. opening degrees
L-195 : 66°
L-270 : 82°

LID STAY

L=R STAINLESS 304 STEEL

LK-222, LK-335, LK-380

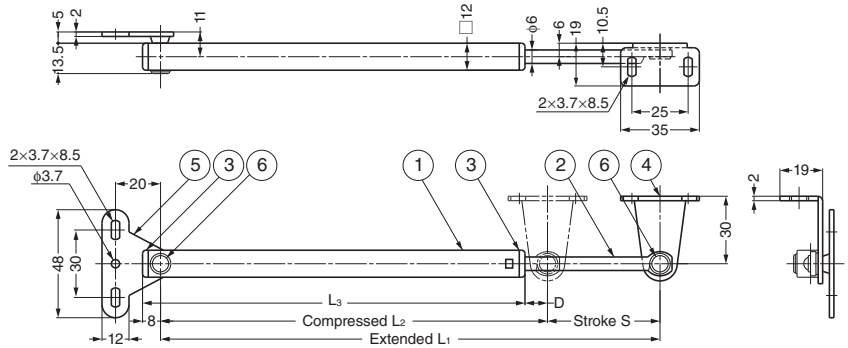


■Features

- Spring mechanism assists lifting the door and holds in opened position.
- Non-handed.

■Remarks

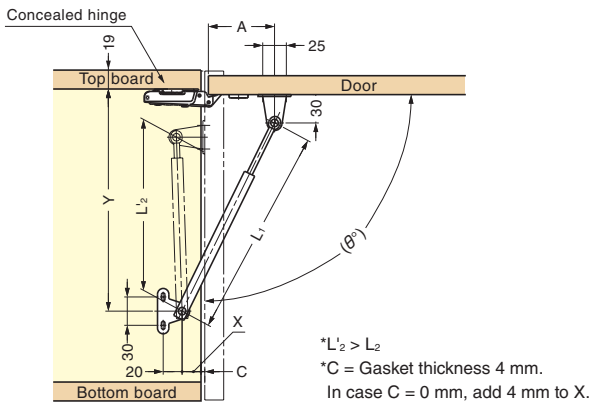
Please use in pairs.



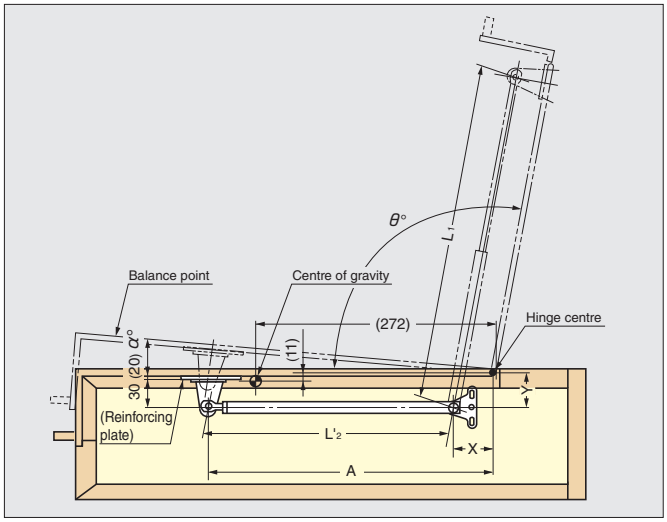
No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Satin
②	Arm	Stainless Steel (SUS304)	Polished
③	Cover	Polyamide (PA)	Black
④	Arm Bracket	Stainless Steel (SUS304)	Satin
⑤	Case Bracket	Stainless Steel (SUS304)	Satin
⑥	Shaft	Stainless Steel (SUS303)	—
—	Spring	Piano Wire	Yellow Zinc Chromate

Item Code	Item Name	L_1	L_2	L_3	S	D	Spring Tension		Weight	Box	Carton
							Extended Force	Compressed Force			
180-100-045	LK-222	222	172	170	50	10	31 N (3.2 kgf)	68 N (7.0 kgf)	145 g	25 pcs	150 pcs
180-100-046	LK-335	335	250	238	85	20	37 N (3.8 kgf)	83 N (8.5 kgf)	185 g	25 pcs	150 pcs
180-100-047	LK-380	380	280	269	100	19	35 N (3.6 kgf)	83 N (8.5 kgf)	205 g	25 pcs	150 pcs

Installation (1) LK-222, LK-335 (Wooden Door)



Installation (2) LK-335, LK-380 (Acrylic Door)



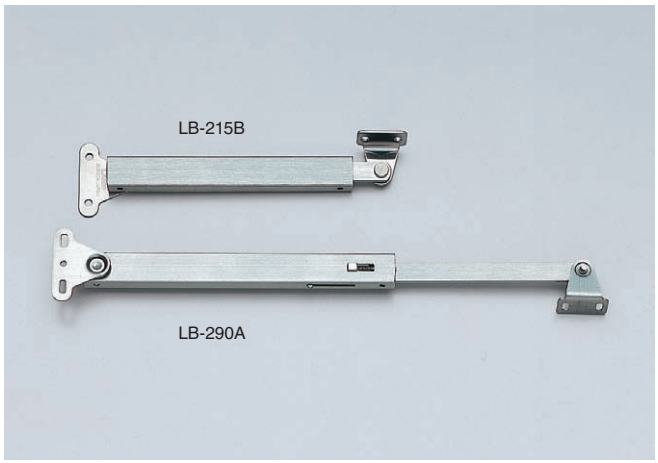
	Opening Angle θ	L_1	A	X	Y	Door Weight
LK-222 (1 pair)	90°	222	70	20	235	Max. 2.5 kg
	85°	222	75	20	240	Max. 2.7 kg
	75°	222	85	20	251	Max. 3.0 kg
LK-335 (1 pair)	90°	335	104	20	344	Max. 3.1 kg
	85°	335	112	20	351	Max. 3.3 kg
	75°	335	127	20	368	Max. 3.8 kg

	Opening Angle (θ°)	α°	L_1	A	X	Y	Door Weight
LK-335	90°	0.5°	335	295	45	38	2.5 kg
	90°	14°	335	295	45	38	3.0 kg
	85°	12°	335	295	45	44	3.3 kg
LK-380	110°	8°	380	330	40	36	2.5 kg
	90°	3.5°	380	335	55	44	3.0 kg
	90°	4°	380	320	41	59	4.0 kg
	80°	7.5°	380	335	56	60	4.3 kg

LID STAY

TEST METHOD 16 | L=R | STAINLESS 304 STEEL

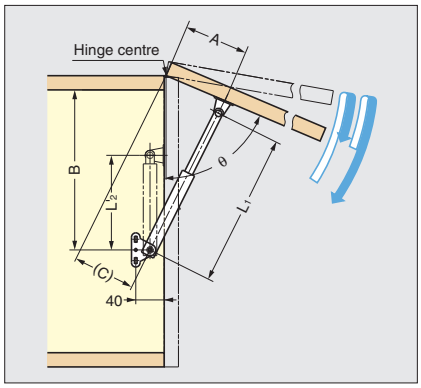
LB-215, LB-290



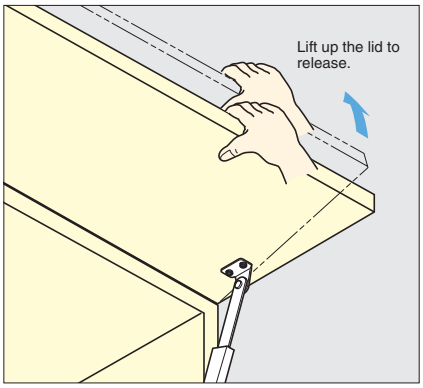
■Features

- Can be used singly or in pairs.
- Holds the lid at open position.
- Lift up the lid to release.
- Non-handed.

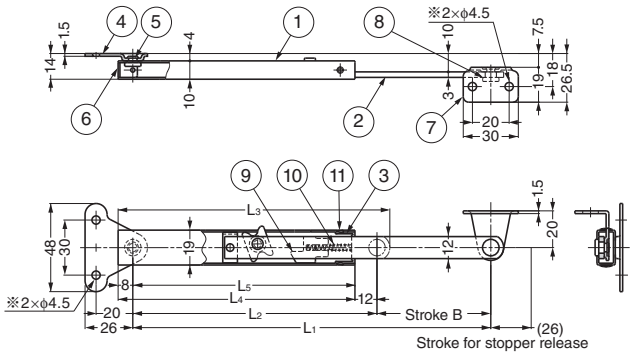
■Installation



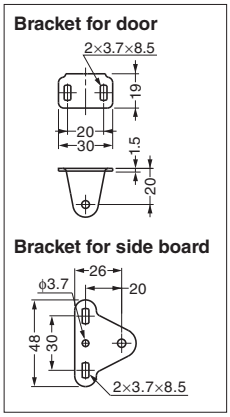
■Stopper Release



LB-215B/LB-290B



LB-215A/LB-290A



No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Arm	Stainless Steel (SUS304)	–
③	End Cap	Stainless Steel (SUS304)	Satin
④	Case Bracket	Stainless Steel (SUS304)	Satin
⑤	Bottom Shaft	Stainless Steel (SUSXM-7)	–
⑥	Bottom Cap	Stainless Steel (SUS304)	Satin
⑦	Arm Bracket	Stainless Steel (SUS304)	Satin
⑧	Top Shaft	Stainless Steel (SUSXM-7)	–
⑨	Slide Parts	Zinc Alloy (ZDC)	–
⑩	Spring	Stainless Steel (SUS304)	–
⑪	Blind Rivet	Stainless Steel	–

※Type A and B are different in hole shape.

Item Code	Item Name	L_1	L_2	L_3	L_4	L_5	S	A	B	C	θ	Approx. Door Height	Load Capacity	Weight	Box	Carton
180-100-110	LB-215A	215	153	168	149	141	62	90	225	91.8	67°	260～350	147 N/pc (15 kgf/pc)	149 g	10 pcs	100 pcs
180-100-112	LB-215B	215	153	168	149	141	62	90	225	91.8	67°	260～350		149 g	10 pcs	100 pcs
180-100-120	LB-290A	290	190	205	186	178	100	105	280	102.9	80°	340～500		166 g	10 pcs	100 pcs
180-100-121	LB-290B	290	190	205	186	178	100	105	280	102.9	80°	340～500		166 g	10 pcs	100 pcs

LID STAY

TEST METHOD 16 | L=R | STAINLESS 304 STEEL

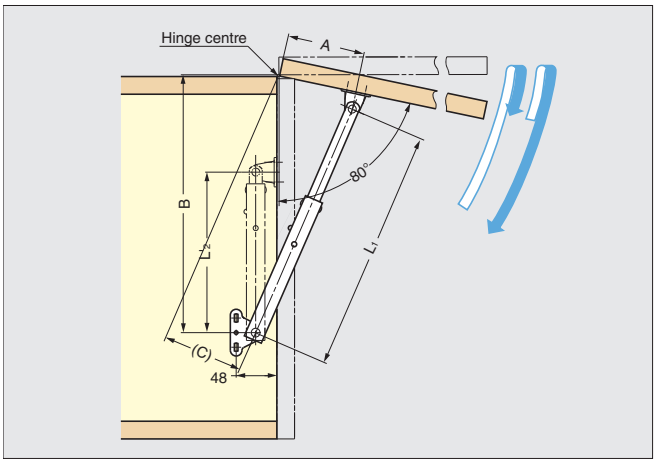
LB-200A, LB-350A, LB-500A



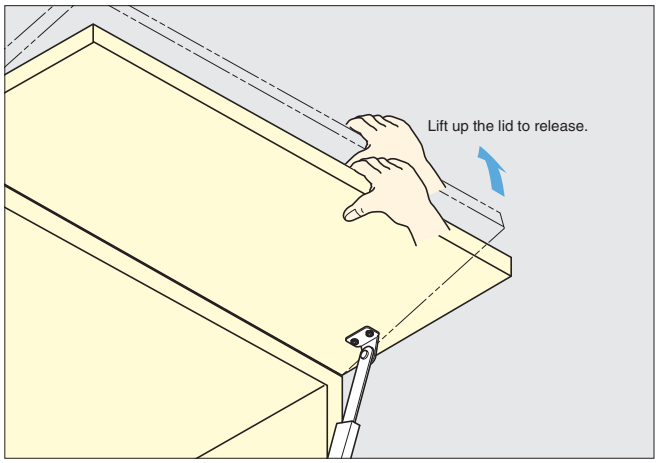
■Features

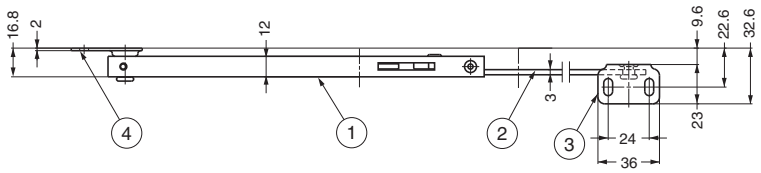
- Holds the lid at open position.
- Lift up the lid to release.
- Non-handed.
- Can be used singly or in pairs.

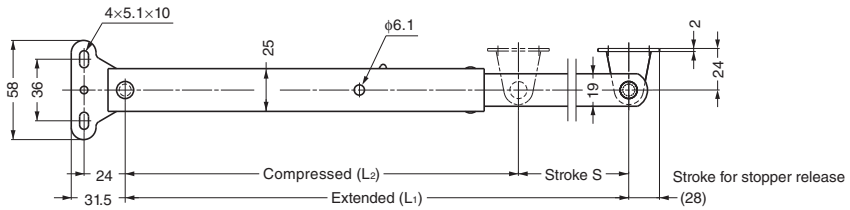
■Installation



■Stopper Release







No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Arm	Stainless Steel (SUS304)	Satin
③	Arm Bracket	Stainless Steel (SUS304)	Satin
④	Case Bracket	Stainless Steel (SUS304)	Satin

Item Code	Item Name	L_1	L_2	S	A	B	C	Load Capacity	Weight	Box	Carton
180-014-929	LB-200A	200	163	45	56	219	59.7	294 N/pc (30 kgf/pc)	234 g	10 pcs	40 pcs
180-100-122	LB-350A	350	230	120	128	364	129.9	245 N/pc (25 kgf/pc)	314 g	10 pcs	40 pcs
180-014-928	LB-500A	500	305	195	195	510	194.5	196 N/pc (20 kgf/pc)	410 g	10 pcs	20 pcs

LID STAY (W/ LOCK)

TEST METHOD 16 | L=R | STAINLESS 304 STEEL

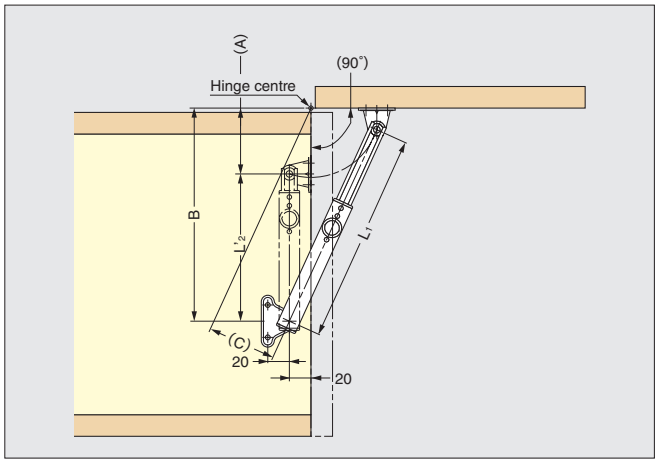
LSP-195B, LSP-270B



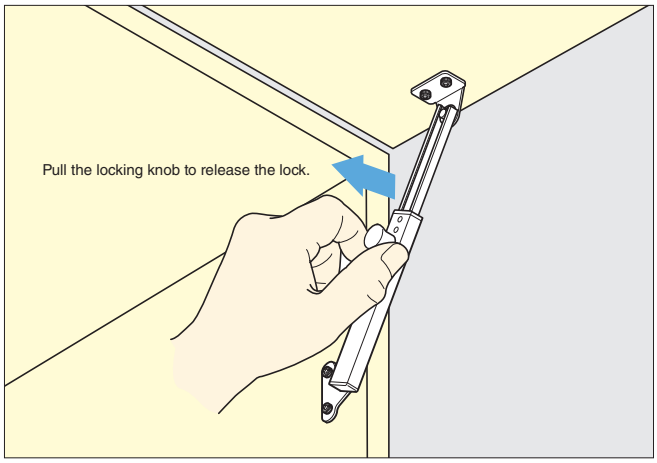
■Features

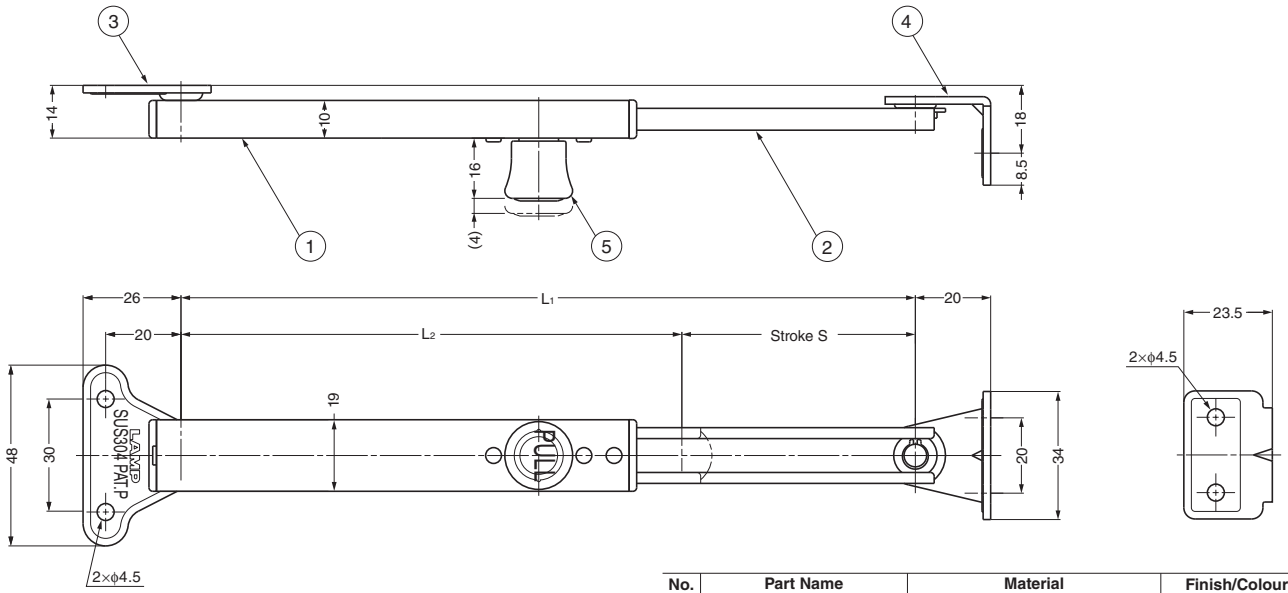
- Can be locked automatically at the door position fully opened.
- The locking mechanism prevents accidental fall of the flap.
- Pull the locking knob to release the lock.
- For upward-opening, top-opening and swinging doors.
- Non-handed.

■Installation



■Lock Release





No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Satin
②	Arm	Stainless Steel (SUS304)	Satin
③	Case Bracket	Stainless Steel (SUS304)	Satin
④	Arm Bracket	Stainless Steel (SUS304)	Satin
⑤	Locking Knob	Polyacetal (POM)	Dark Grey

Item Code	Item Name	L_1	L_2	S	A	B	C	Load Capacity		Weight	Box	Carton
180-100-358	LSP-195B	195	133	62	61	197	63.8	294 N/pc	30 kgf/pc	127 g	6 pcs	60 pcs
180-100-357	LSP-270B	270	170	100	92	265	91.9			147 g	6 pcs	60 pcs

MULTI-ANGLE LID STAY (W/ LOCK)

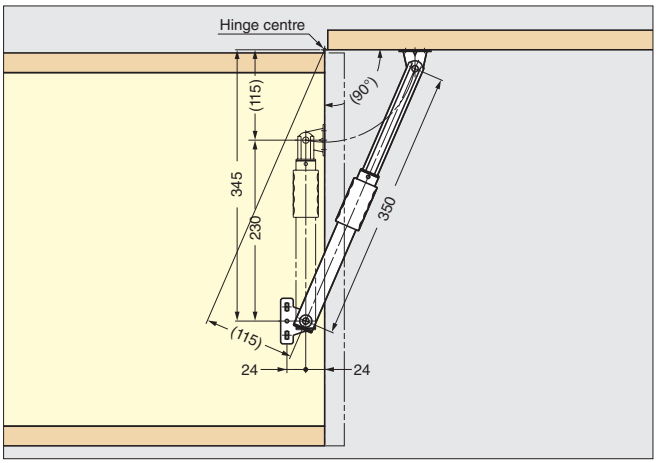
L=R STAINLESS 304 STEEL **L-FS350A**



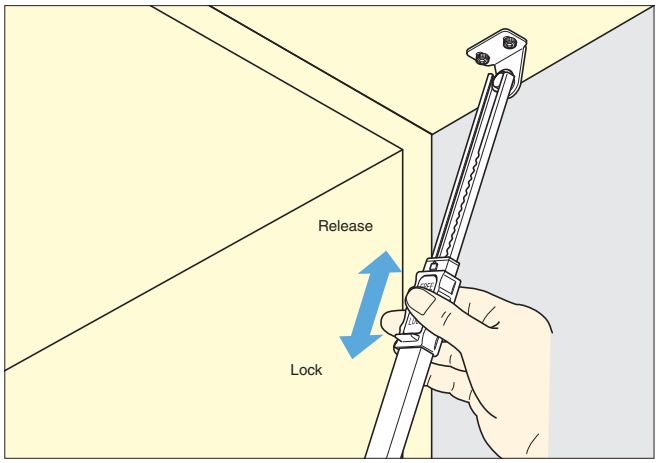
■Features

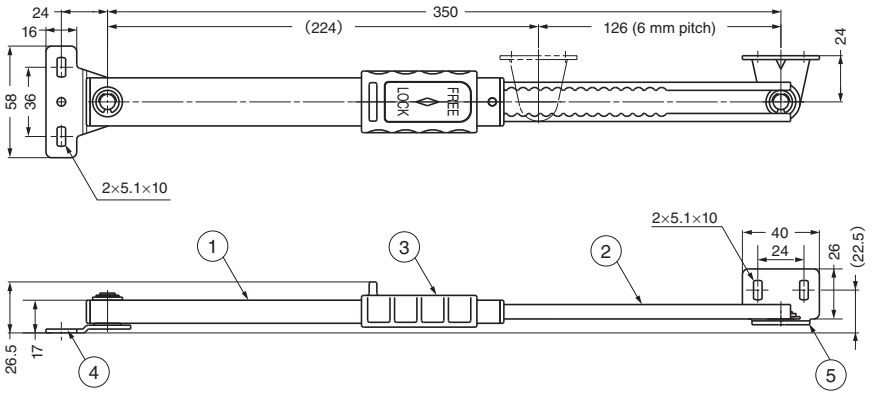
- Locks the lid at multiple angles with the lock lever.
- For upward-opening, top-opening and swinging doors.
- Can be used singly or in pairs.
- Non-handed.

■Installation



■Lock and Release



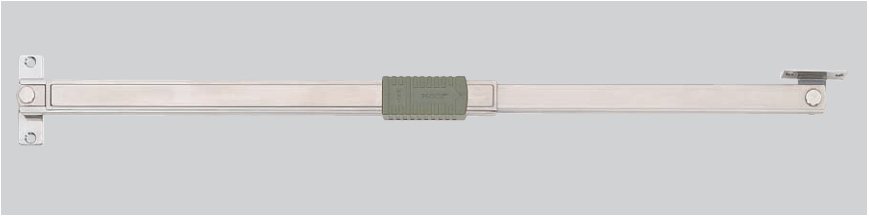


No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Satin
②	Arm	Stainless Steel (SUS304)	Satin
③	Lock Lever	Polyacetal (POM)	Dark Grey
④	Case Bracket	Stainless Steel (SUS304)	Satin
⑤	Arm Bracket	Stainless Steel (SUS304)	Satin

Item Code	Item Name	Load Capacity		Weight	Box	Carton
180-100-617	L-FS350A	294 N/pc	30 kgf/pc	326 g	5 pcs	50 pcs

MULTI-ANGLE LID STAY (W/ LOCK)

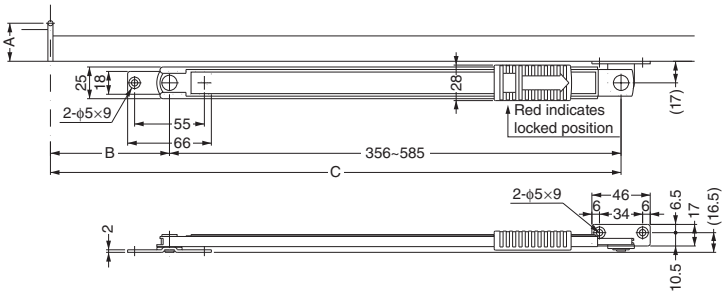
L=R STAINLESS 304 STEEL **U3012HL**





Features

- Locks the lid at multiple angles with the lock lever.
- Slide the lever to lock / unlock.
- The locking mechanism prevents accidental fall of the flap.
- Can be used singly or in pairs.
- Non-Handed.
- Door opening angle: Max. 100˚
- Recommended door size:
  Height – Max. 2000 mm.
  Width – 600~910 mm.
  Thickness – 25~45 mm.
  Weight – Max. 20 kg.



Dimensions for 90˚ door opening angle

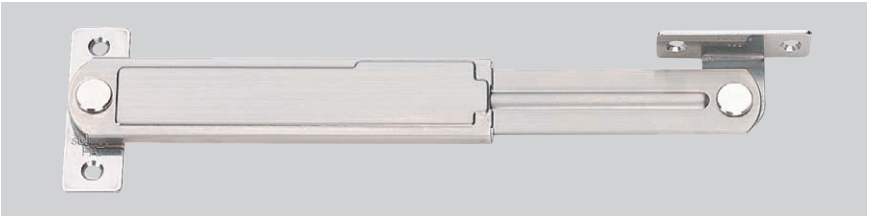
A	30	35	40	45	50
B	160	160	160	160	155
C	525	520	515	510	505

Item Code	Item Name	Weight	Box	Carton
180-109-466	U3012HL (=U3005HL)	338 g	6 pcs	60 pcs

Material	Finish/Colour
304 Stainless Steel	Satin
Polyacetal	—

MULTI-ANGLE LID STAY

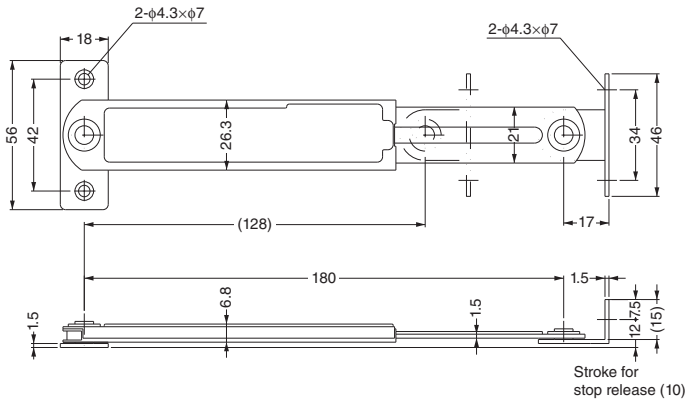
L=R STAINLESS 304 STEEL **U-3031HL**





Features

- Holds the lid at multiple angles with ratchet inside.
- Non-handed.
- Thin and compact design.
- Open the door fully to release the lock.
- Close the door completely to revert the ratchet function.



Material	Finish
304 Stainless Steel	Satin

Item Code	Item Name	Stop Positions	Door Weight	Weight	Box	Carton
180-109-200	U-3031HL	15	Max. 5 kg	127 g	10 pcs	100 pcs

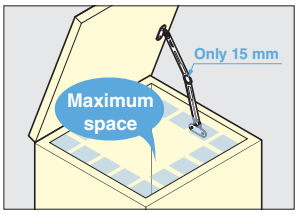
FREE-STOP STAY

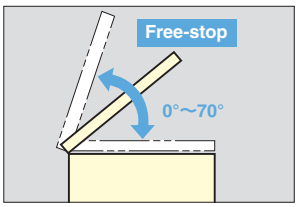
STAINLESS 430 STEEL

S-100T30



S-100T30R





■Features

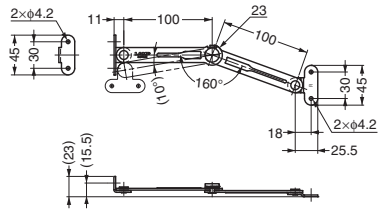
- Friction holds the lid in desired position.
- Possible to use top-opening doors, upward-opening doors and downward-opening doors.

■Remarks

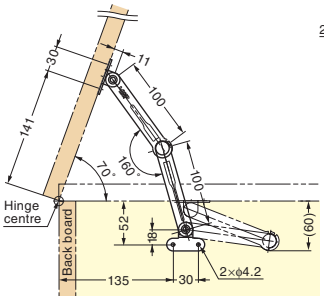
Opening angle changes depending on installation position.

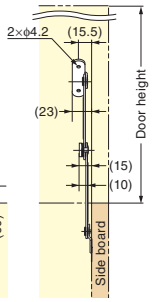
■Example Chart for the Below Installation

Door Height	Door Weight (1 pc)	Door Weight (1 pair)
200	Max. 3.9 kg	Max. 7.8 kg
250	Max. 3.1 kg	Max. 6.2 kg
300	Max. 2.6 kg	Max. 5.2 kg
350	Max. 2.2 kg	Max. 4.4 kg
400	Max. 1.9 kg	Max. 3.8 kg
450	Max. 1.7 kg	Max. 3.4 kg
500	Max. 1.5 kg	Max. 3.0 kg

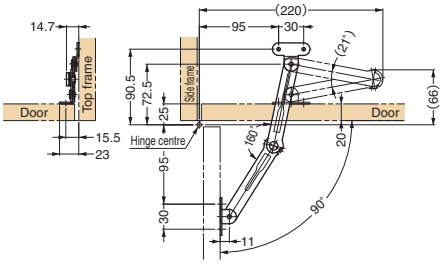


■Installation (For Top-opening)





■Installation (For Horizontal Opening)



Item Code	Item Name	Type	Material	Finish	Torque Moment/piece	Weight	Box	Carton
180-011-966	S-100T30R	Right	Stainless Steel (SUS430)	Mirror	3 ± 20% N・m	100 g	30 pcs	120 pcs
180-011-967	S-100T30L	Left	Stainless Steel (SUS430)	Mirror	(30.6 ± 20% kgf・cm)	100 g	30 pcs	120 pcs

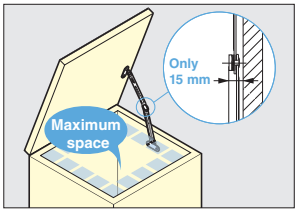
FREE-STOP STAY

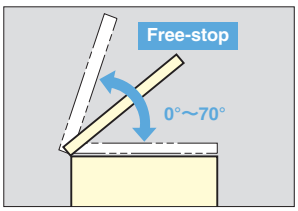
STAINLESS 430 STEEL

S-52T15



S-52T15R





■Features

Friction holds the lid in desired position.

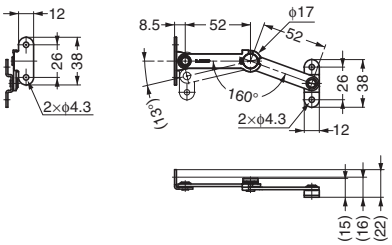
■Remarks

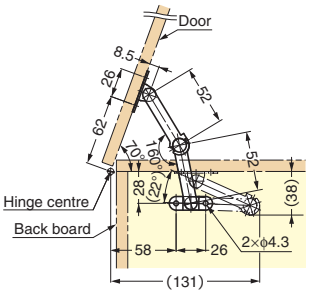
Opening angle changes depending on installation position.

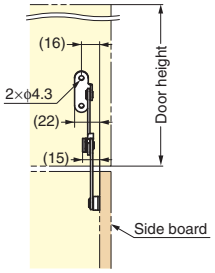
■Example Chart for the Below Installation

Door Height	Door Weight (1 pc)	Door Weight (1 pair)
200	Max. 1.8 kg	Max. 3.6 kg
250	Max. 1.4 kg	Max. 2.8 kg
300	Max. 1.2 kg	Max. 2.4 kg
350	Max. 1.0 kg	Max. 2.0 kg
400	Max. 0.9 kg	Max. 1.8 kg

■Installation



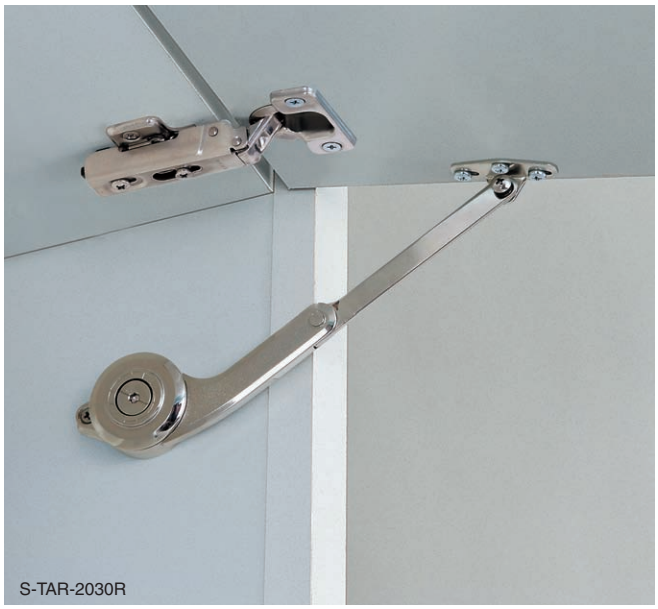




Item Code	Item Name	Type	Material	Finish	Torque Moment/piece	Weight	Box	Carton
180-023-579	S-52T15R	Right	Stainless Steel (SUS430)	Mirror	1.5 ± 20% N・m	40 g	25 pcs	200 pcs
180-023-580	S-52T15L	Left	Stainless Steel (SUS430)	Mirror	(15.3 ± 20% kgf・cm)	40 g	25 pcs	200 pcs

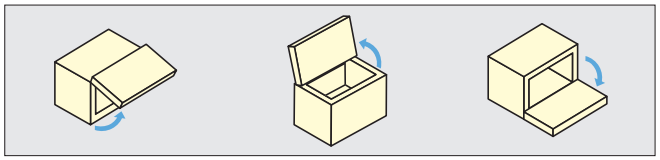
FREE-STOP STAY (ONE WAY)

STEEL **S-TAR**









■Features

- Torque stay for upward-opening, downward-opening and top-opening.
- Free stop at any position when lifting up the door.
- Friction in one direction only.
- Light & smooth opening.
- Torque adjustable.
- Successfully passed for the 30,000 open/close private cycle test.

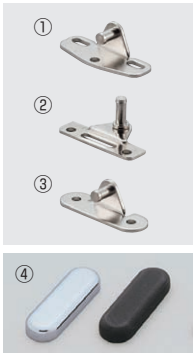
■Parts Included

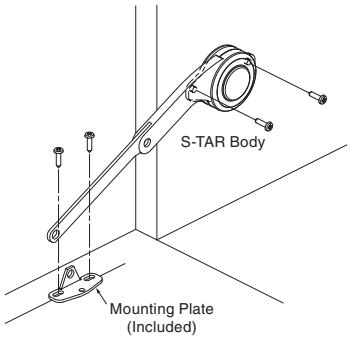
- Mounting plate
- Countersunk head tapping screw 4×20
- Binding head tapping screw 3.5×15
- Allen key 4

■Optional Parts

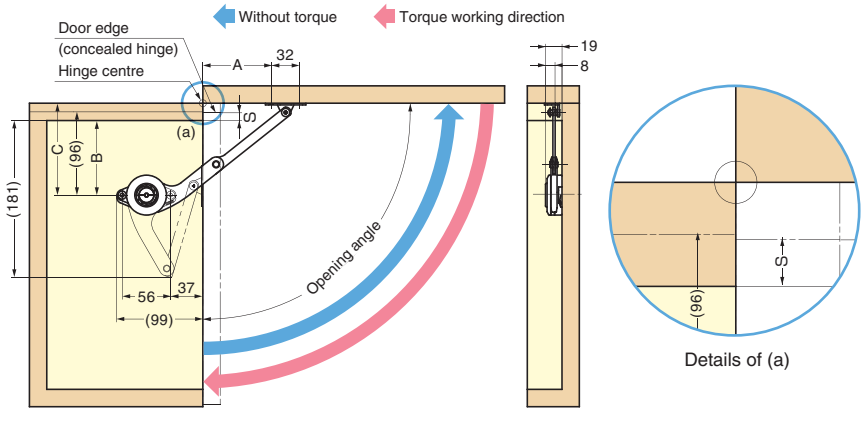
①Mounting plate NSDX-CZ (P.522)
②Mounting plate NSDX-AZ for 20 mm aluminium frame (P.522)
③Mounting plate NSDX-GZ for glass door (P.522)
④SDS-50G for glass door (P.522)

Optional Parts ①-④





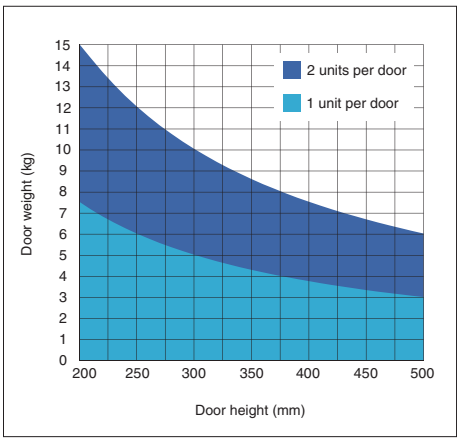
■Installation (Upward-opening)



S = Overlay by concealed hinge

Details of (a)

■Door Size Ranges (Upward-opening)

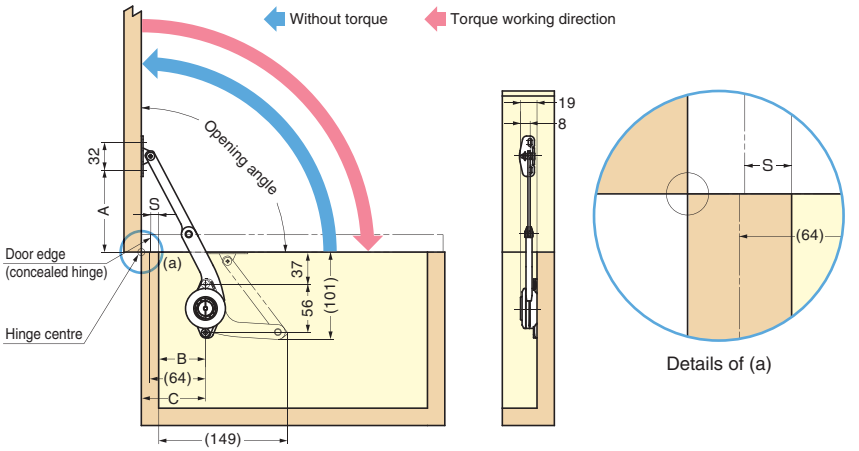


Hinge Type	Opening Angle	A	B	C
Concealed Hinge	80°	98	105-S	—
Concealed Hinge	90°	88	105-S	—
Concealed Hinge	100°	80	105-S	—
Single Knuckle Hinge	80°	90	—	109
Single Knuckle Hinge	90°	77	—	109
Single Knuckle Hinge	100°	66	—	109

■Torque

- With 1 stay
  Torque = Max. 7.4 N・m (75 kgf・cm)
- With 2 stays, Max. torque is 14.8 N・m (150 kgf・cm).

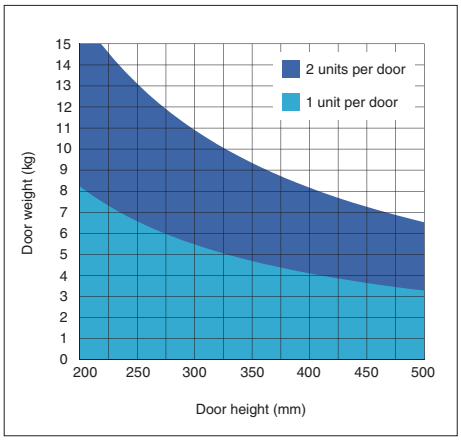
■Installation (Top-opening)



S = Overlay by concealed hinge

Hinge	Opening Angle	A	B	C
Concealed Hinge	70˚	114	73-S	—
Concealed Hinge	90˚	98	73-S	—
Single Knuckle Hinge	70˚	115	—	77
Single Knuckle Hinge	90˚	93	—	77

■Door Size Ranges (Top-opening)



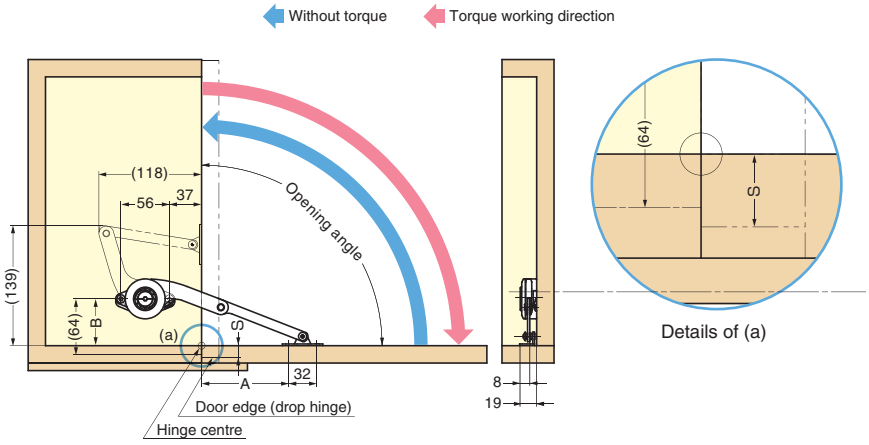
■Torque

●With 1 stay

Torque = Max. 8.1 N・m (82 kgf・cm)

●With 2 stays, Max. torque is 16.2 N・m (164 kgf・cm).

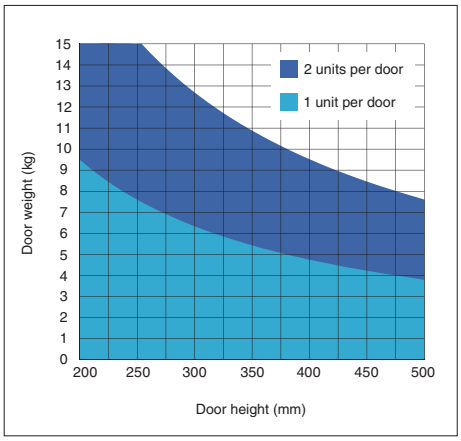
■Installation (Downward-opening)



S = Overlay by concealed hinge

Hinge	Opening Angle	A	B
Concealed Hinge	90˚	99	70-S
Single Knuckle Hinge	90˚	100	51

■Door Size Ranges (Downward-opening)



■Torque

●With 1 stay

Torque = Max. 9.3 N・m (94 kgf・cm)

●With 2 stays, Max. torque is 18.6 N・m (188 kgf・cm).

■Body

Item Code	Item Name	Material	Type	Opening	Weight	Box	Carton
180-028-991	S-TAR-2030R	Zinc Alloy (ZDC), Steel	Right	Upward-opening, Top-opening	266 g	20 pcs	80 pcs
180-028-990	S-TAR-2030L	Zinc Alloy (ZDC), Steel	Left	Upward-opening, Top-opening	266 g	20 pcs	80 pcs
180-028-993	S-TAR-10R	Zinc Alloy (ZDC), Steel	Right	Downward-opening	266 g	20 pcs	80 pcs
180-028-992	S-TAR-10L	Zinc Alloy (ZDC), Steel	Left	Downward-opening	266 g	20 pcs	80 pcs

■Drop Hinge (Sold Separately) (P.411-412)

Item Code	Item Name	Type	Finish/Colour
170-090-471	SDH-001	—	Nickel
170-010-648	SDH-001BL	—	Black
170-016-331	SDH-G	Glass Door	Nickel

SDH-G: The face plate also needed.

■Face Plate and Spacer of SDS for Glass Door (Sold Separately)

Please use with NSDX-GZ below.

Item Code	Item Name	Material	Finish/Colour
180-100-260	SDS-50G-CR	Zinc Alloy (ZDC)/ABS	Chrome/Black
180-928-046	SDS-50G-BL	Zinc Alloy (ZDC)/ABS	Black

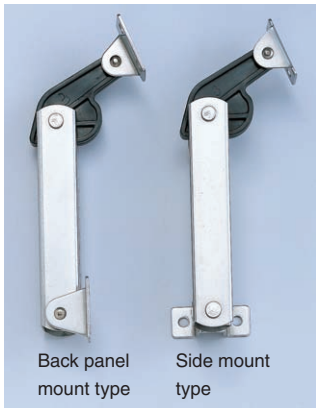
■Mounting Plate (Sold Separately) (P.522)

Item Code	Item Name	Type
180-109-460	NSDX-CZ	Clip Type
180-109-019	NSDX-AZ	For 20 mm Aluminium Frame Door
180-109-459	NSDX-GZ	For Glass Door

SPRING LOADED LID STAY

STAINLESS 304 STEEL

S-YT



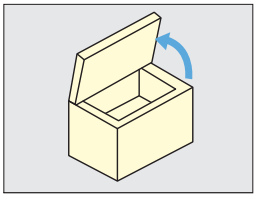


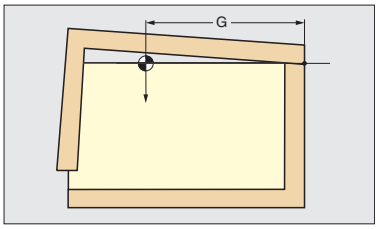
■Features

Spring mechanism assists in lifting door and holds in opened position.

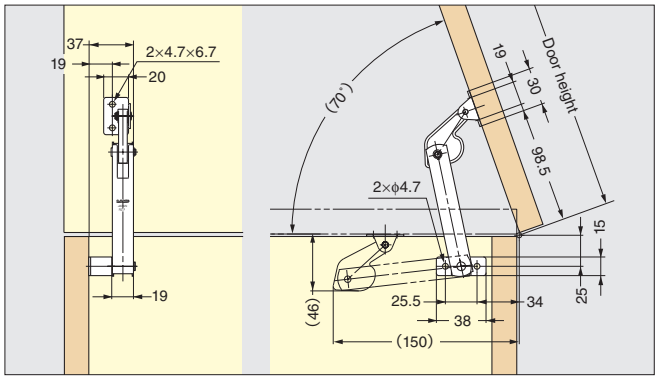
■Remarks

Do not use with concealed hinges.



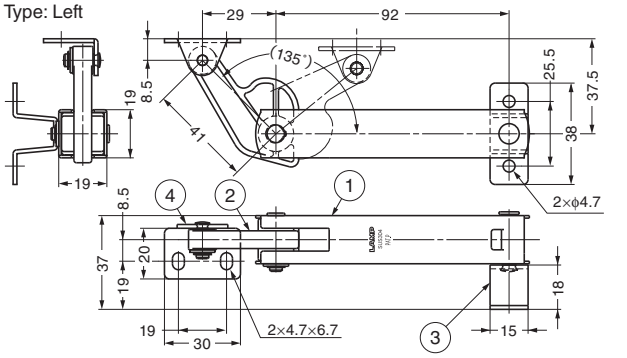


SIDE MOUNT TYPE



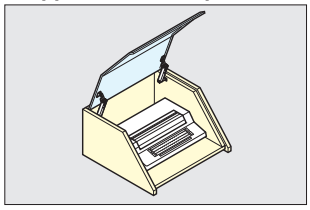
Installation for 70° opening (Max. 80°)

Type: Left



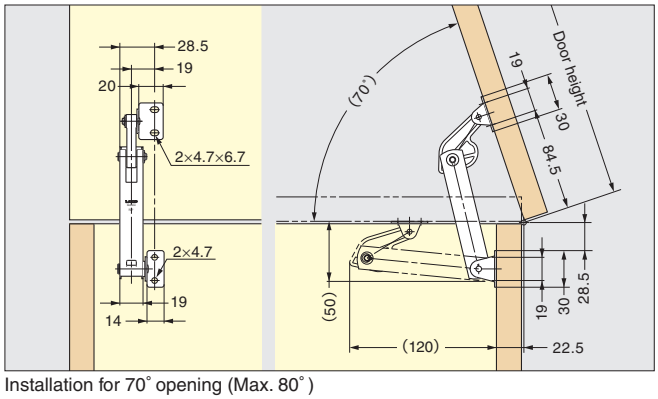
No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Mirror
②	Arm	Polyacetal (POM)	Black
③	Case Bracket	Stainless Steel (SUS304)	Mirror
④	Arm Bracket	Stainless Steel (SUS304)	Mirror

■Application Example

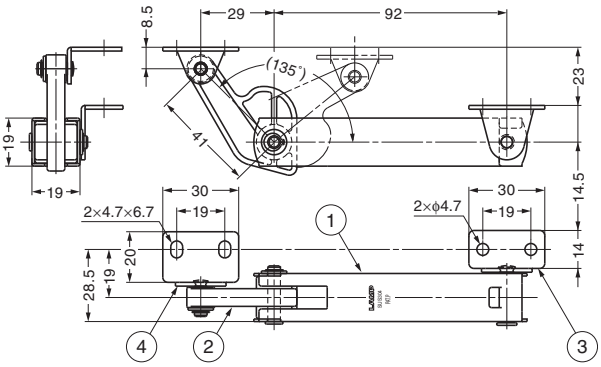


Item Code	Item Name	Type	Spring Tension	Approx. Torque Moment	Weight	Box	Carton
180-100-083	S-YT01R	Right	Soft	Max. 2.94 N・m/pc	130 g	10 pcs	100 pcs
180-100-084	S-YT01L	Left	Soft	(30 kgf・cm/pc)	130 g	10 pcs	100 pcs
180-100-085	S-YT02R	Right	Hard	Max. 3.92 N・m/pc	130 g	10 pcs	100 pcs
180-100-086	S-YT02L	Left	Hard	(40 kgf・cm/pc)	130 g	10 pcs	100 pcs

BACK PANEL MOUNT TYPE

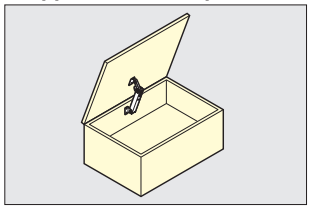


Installation for 70° opening (Max. 80°)



No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Mirror
②	Arm	Polyacetal (POM)	Black
③	Case Bracket	Stainless Steel (SUS304)	Mirror
④	Arm Bracket	Stainless Steel (SUS304)	Mirror

■Application Example



Item Code	Item Name	Spring Tension	Approx. Torque Moment	Weight	Box	Carton
180-100-081	S-YT01S	Soft	Max. 2.94 N・m/pc (30 kgf・cm/pc)	130 g	10 pcs	100 pcs
180-100-082	S-YT02S	Hard	Max. 3.92 N・m/pc (40 kgf・cm/pc)	130 g	10 pcs	100 pcs

HEAVY DUTY SPRING LOADED LID STAY

L=R STAINLESS 430 STEEL **S-AT**


Side mount type


Back panel mount type

■Features

- Spring mechanism assists lifting the door and holds at any angle (10˚～80˚).
- Compact design saves the space inside.
- Non-handed.

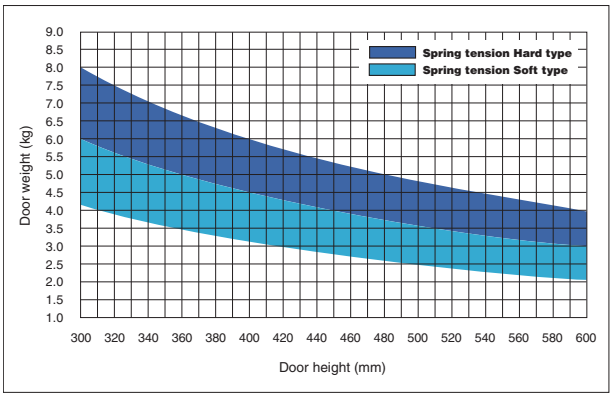
■Remarks

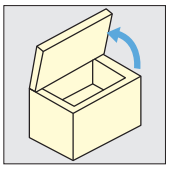
Do not use with concealed hinges.

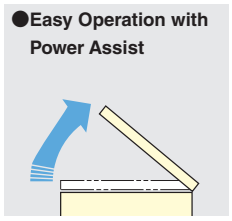
■Torque

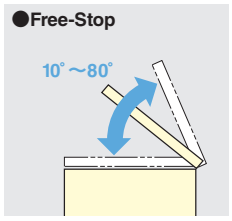
- With 1 piece
  Torque = 6.1～8.8 N・m (62～90 kgf・cm)
  ⋯ S-AT01(S)
  Torque = 8.8～11.8 N・m (90～120 kgf・cm)
  ⋯ S-AT02(S)
- With 2 pieces, the torque will be doubled.

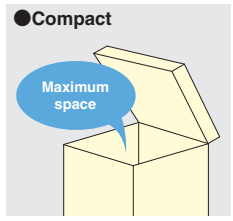
■Selection Graph





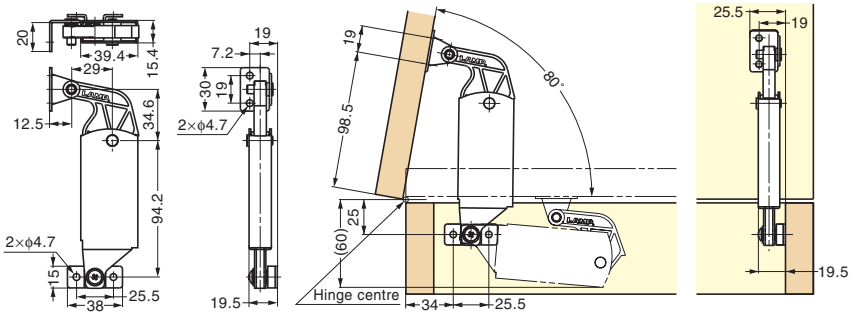






SIDE MOUNT TYPE

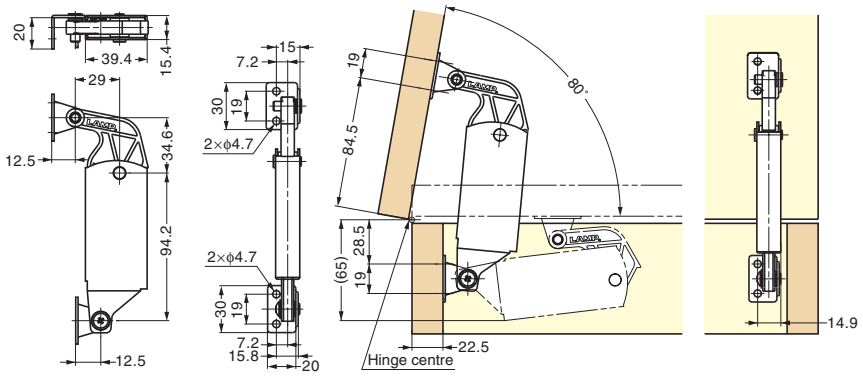
L=R STAINLESS 430 STEEL **S-AT01, S-AT02**



Item Code	Item Name	Spring Tension	Material	Finish	Torque Moment		Weight	Box	Carton
180-017-544	S-AT01	Soft	Stainless Steel (SUS430)/Polyacetal (POM)	Plain	6.1～ 8.8 N·m/pc	62～ 90 kgf·cm/pc	195 g	10 pcs	50 pcs
180-017-545	S-AT02	Hard	Stainless Steel (SUS430)/Polyacetal (POM)	Plain	8.8～11.8 N·m/pc	90～120 kgf·cm/pc	195 g	10 pcs	50 pcs

BACK PANEL MOUNT TYPE

L=R STAINLESS 430 STEEL **S-AT01S, S-AT02S**



Item Code	Item Name	Spring Tension	Material	Finish	Torque Moment		Weight	Box	Carton
180-017-546	S-AT01S	Soft	Stainless Steel (SUS430)/Polyacetal (POM)	Plain	6.1～ 8.8 N·m/pc	62～ 90 kgf·cm/pc	195 g	10 pcs	50 pcs
180-017-547	S-AT02S	Hard	Stainless Steel (SUS430)/Polyacetal (POM)	Plain	8.8～11.8 N·m/pc	90～120 kgf·cm/pc	195 g	10 pcs	50 pcs

HEAVY DUTY SPRING LOADED LID STAY

L=R STAINLESS 430 STEEL **S-AT02W**


Side mount type


Back panel mount type

■Features
- Spring mechanism assists lifting the door and holds in opened position (10˚～80˚).
- Compact design saves the space inside.
- Non-handed.

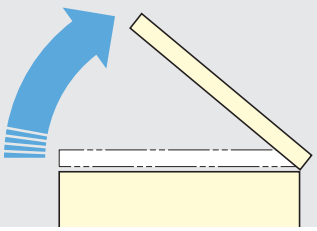
■Parts Included
- Bracket for side mount
- Truss head screw M5×6 (SUS) for side mount bracket

■Recommended Screw
Truss head screw M5

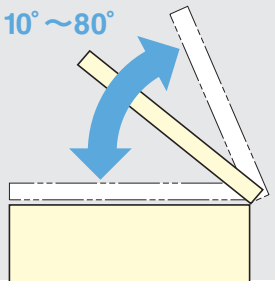
■Remarks
Do not use with concealed hinge.

Video Link

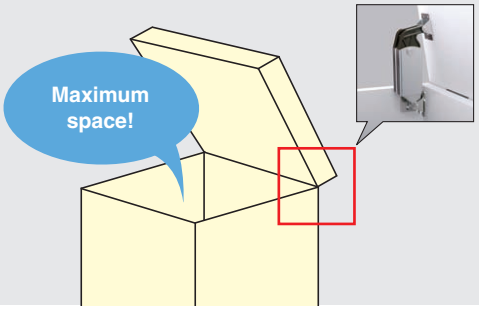
●Easy Operation with Power Assist



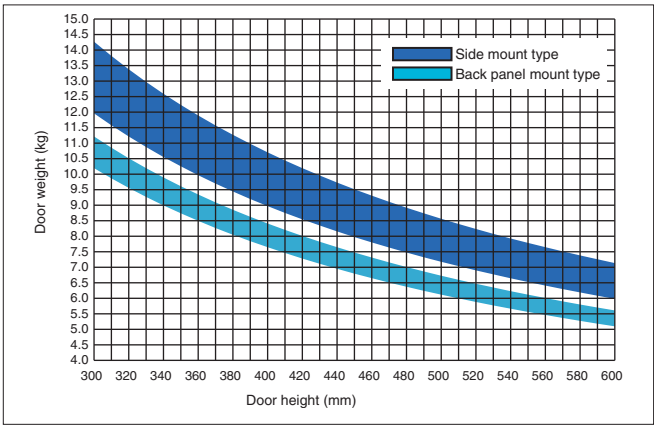
●Free-Stop



●Compact

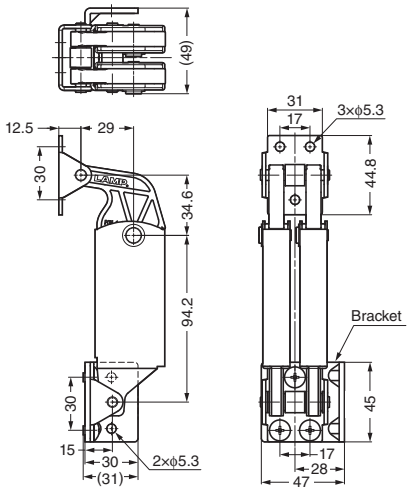


■Door Size Ranges

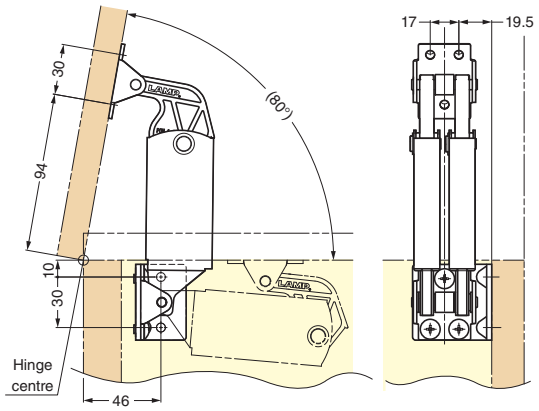


■Torque
- With 1 stay
  Torque (Side mount) = 17.6～ 21.0 N・m (180～ 214 kgf・cm)
  Torque (Back panel mount) = 15.0～ 16.5 N・m (153～ 168 kgf・cm)
- With 2 stays, the torque will be doubled.

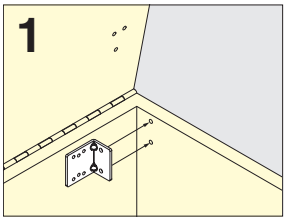
SIDE MOUNT TYPE

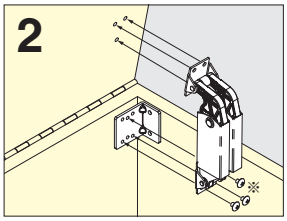


■Installation



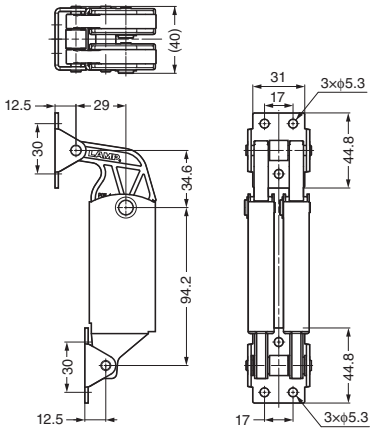
■How to Install



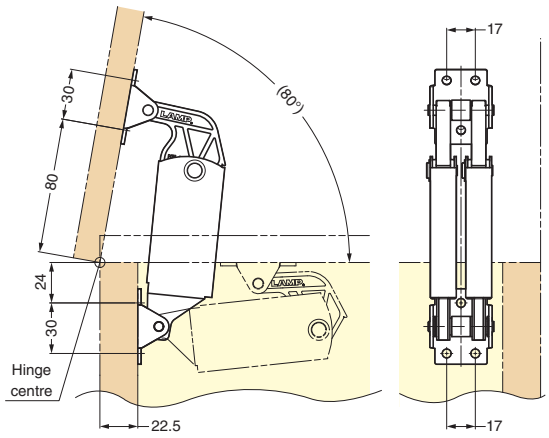


※Only these three screws are included.

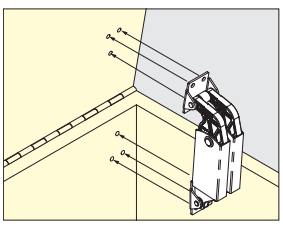
BACK PANEL MOUNT TYPE



■Installation



■How to Install



*Mounting screws are not included.

Item Code	Item Name	Material	Finish/Colour	Type	Torque Moment		Weight	Carton
180-025-461	S-AT02W	Stainless Steel (SUS430) /Polyacetal (POM)	Plain/Black	Side Mount Type	17.6～21.0 N・m/pc	180～214 kgf・cm/pc	490 g	10 pcs
				Back Panel Mount Type	15.0～16.5 N・m/pc	153～168 kgf・cm/pc		

Wooden Door Weight Table

The below density is only for reference and it may differ depending on their material and specification.

■Door Weight (kg)

Door Type	MDF (Density 0.8)					Particle Board (Density 0.6)					Plywood (Density 0.6)					Flush (Density 0.5)				
Door Thickness mm / Door Size mm	16	19	22	25	35	16	19	22	25	35	16	19	22	25	35	16	19	22	25	35
300× 400	1.5	1.8	2.1	2.4	3.4	1.2	1.4	1.6	1.8	2.5	1.2	1.4	1.6	1.8	2.5	1.0	1.1	1.3	1.5	2.1
300× 500	1.9	2.3	2.6	3.0	4.2	1.4	1.7	2.0	2.3	3.2	1.4	1.7	2.0	2.3	3.2	1.2	1.4	1.7	1.9	2.6
300× 600	2.3	2.7	3.2	3.6	5.0	1.7	2.1	2.4	2.7	3.8	1.7	2.1	2.4	2.7	3.8	1.4	1.7	2.0	2.3	3.2
300× 700	2.7	3.2	3.7	4.2	5.9	2.0	2.4	2.8	3.2	4.4	2.0	2.4	2.8	3.2	4.4	1.7	2.0	2.3	2.6	3.7
300× 800	3.1	3.6	4.2	4.8	6.7	2.3	2.7	3.2	3.6	5.0	2.3	2.7	3.2	3.6	5.0	1.9	2.3	2.6	3.0	4.2
300× 900	3.5	4.1	4.8	5.4	7.6	2.6	3.1	3.6	4.1	5.7	2.6	3.1	3.6	4.1	5.7	2.2	2.6	3.0	3.4	4.7
300×1000	3.8	4.6	5.3	6.0	8.4	2.9	3.4	4.0	4.5	6.3	2.9	3.4	4.0	4.5	6.3	2.4	2.9	3.3	3.8	5.3
400× 500	2.6	3.0	3.5	4.0	5.6	1.9	2.3	2.6	3.0	4.2	1.9	2.3	2.6	3.0	4.2	1.6	1.9	2.2	2.5	3.5
400× 600	3.1	3.6	4.2	4.8	6.7	2.3	2.7	3.2	3.6	5.0	2.3	2.7	3.2	3.6	5.0	1.9	2.3	2.6	3.0	4.2
400× 700	3.6	4.3	4.9	5.6	7.8	2.7	3.2	3.7	4.2	5.9	2.7	3.2	3.7	4.2	5.9	2.2	2.7	3.1	3.5	4.9
400× 800	4.1	4.9	5.6	6.4	9.0	3.1	3.6	4.2	4.8	6.7	3.1	3.6	4.2	4.8	6.7	2.6	3.0	3.5	4.0	5.6
400× 900	4.6	5.5	6.3	7.2	10.1	3.5	4.1	4.8	5.4	7.6	3.5	4.1	4.8	5.4	7.6	2.9	3.4	4.0	4.5	6.3
400×1000	5.1	6.1	7.0	8.0	11.2	3.8	4.6	5.3	6.0	8.4	3.8	4.6	5.3	6.0	8.4	3.2	3.8	4.4	5.0	7.0
400×1100	5.6	6.7	7.7	8.8	12.3	4.2	5.0	5.8	6.6	9.2	4.2	5.0	5.8	6.6	9.2	3.5	4.2	4.8	5.5	7.7
400×1200	6.1	7.3	8.4	9.6	13.4	4.6	5.5	6.3	7.2	10.1	4.6	5.5	6.3	7.2	10.1	3.8	4.6	5.3	6.0	8.4
500× 600	3.8	4.6	5.3	6.0	8.4	2.9	3.4	4.0	4.5	6.3	2.9	3.4	4.0	4.5	6.3	2.4	2.9	3.3	3.8	5.3
500× 700	4.5	5.3	6.2	7.0	9.8	3.4	4.0	4.6	5.3	7.4	3.4	4.0	4.6	5.3	7.4	2.8	3.3	3.9	4.4	6.1
500× 800	5.1	6.1	7.0	8.0	11.2	3.8	4.6	5.3	6.0	8.4	3.8	4.6	5.3	6.0	8.4	3.2	3.8	4.4	5.0	7.0
500× 900	5.8	6.8	7.9	9.0	12.6	4.3	5.1	5.9	6.8	9.5	4.3	5.1	5.9	6.8	9.5	3.6	4.3	5.0	5.6	7.9
500×1000	6.4	7.6	8.8	10.0	14.0	4.8	5.7	6.6	7.5	10.5	4.8	5.7	6.6	7.5	10.5	4.0	4.8	5.5	6.3	8.8
500×1100	7.0	8.4	9.7	11.0	15.4	5.3	6.3	7.3	8.3	11.6	5.3	6.3	7.3	8.3	11.6	4.4	5.2	6.1	6.9	9.6
500×1200	7.7	9.1	10.6	12.0	16.8	5.8	6.8	7.9	9.0	12.6	5.8	6.8	7.9	9.0	12.6	4.8	5.7	6.6	7.5	10.5
500×1300	8.3	9.9	11.4	13.0	18.2	6.2	7.4	8.6	9.8	13.7	6.2	7.4	8.6	9.8	13.7	5.2	6.2	7.2	8.1	11.4
500×1400	9.0	10.6	12.3	14.0	19.6	6.7	8.0	9.2	10.5	14.7	6.7	8.0	9.2	10.5	14.7	5.6	6.7	7.7	8.8	12.3
500×1500	9.6	11.4	13.2	15.0	21.0	7.2	8.6	9.9	11.3	15.8	6.0	7.1	8.3	9.4	13.1	7.2	8.6	9.9	11.3	15.8
500×1600	10.2	12.2	14.1	16.0	22.4	7.7	9.1	10.6	12.0	16.8	7.7	9.1	10.6	12.0	16.8	6.4	7.6	8.8	10.0	14.0
500×1700	10.9	12.9	15.0	17.0	23.8	8.2	9.7	11.2	12.8	17.9	8.2	9.7	11.2	12.8	17.9	6.8	8.1	9.4	10.6	14.9
500×1800	11.5	13.7	15.8	18.0	25.2	8.6	10.3	11.9	13.5	18.9	8.6	10.3	11.9	13.5	18.9	7.2	8.6	9.9	11.3	15.8

Glass Door Weight Table

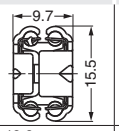
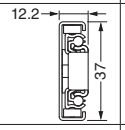
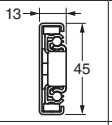
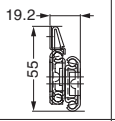
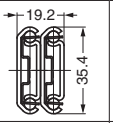
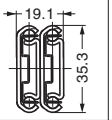
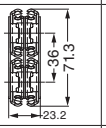
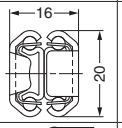
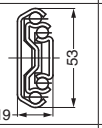
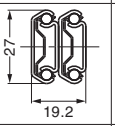
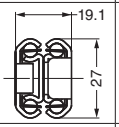
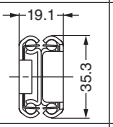
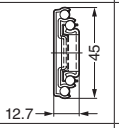
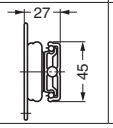
■Door Weight (kg)

Glass Door Thickness mm	4 (Density 2.5)							5 (Density 2.5)							6 (Density 2.5)						
Door Width mm / Door Height mm	300	400	500	600	700	800	900	300	400	500	600	700	800	900	300	400	500	600	700	800	900
300	0.9	1.2	1.5	1.8	2.1	2.4	2.7	1.1	1.5	1.9	2.3	2.6	3.0	3.4	1.4	1.8	2.3	2.7	3.2	3.6	4.1
350	1.1	1.4	1.8	2.1	2.5	2.8	3.2	1.3	1.8	2.2	2.6	3.1	3.5	3.9	1.6	2.1	2.6	3.2	3.7	4.2	4.7
400	1.2	1.6	2.0	2.4	2.8	3.2	3.6	1.5	2.0	2.5	3.0	3.5	4.0	4.5	1.8	2.4	3.0	3.6	4.2	4.8	5.4
450	1.4	1.8	2.3	2.7	3.2	3.6	4.1	1.7	2.3	2.8	3.4	3.9	4.5	5.1	2.0	2.7	3.4	4.1	4.7	5.4	6.1
500	1.5	2.0	2.5	3.0	3.5	4.0	4.5	1.9	2.5	3.1	3.8	4.4	5.0	5.6	2.3	3.0	3.8	4.5	5.3	6.0	6.8
550	1.7	2.2	2.8	3.3	3.9	4.4	5.0	2.1	2.8	3.4	4.1	4.8	5.5	6.2	2.5	3.3	4.1	5.0	5.8	6.6	7.4
600	1.8	2.4	3.0	3.6	4.2	4.8	5.4	2.3	3.0	3.8	4.5	5.3	6.0	6.8	2.7	3.6	4.5	5.4	6.3	7.2	8.1
650	2.0	2.6	3.3	3.9	4.6	5.2	5.9	2.4	3.3	4.1	4.9	5.7	6.5	7.3	2.9	3.9	4.9	5.9	6.8	7.8	8.8
700	2.1	2.8	3.5	4.2	4.9	5.6	6.3	2.6	3.5	4.4	5.3	6.1	7.0	7.9	3.2	4.2	5.3	6.3	7.4	8.4	9.5
750	2.3	3.0	3.8	4.5	5.3	6.0	6.8	2.8	3.8	4.7	5.6	6.6	7.5	8.4	3.4	4.5	5.6	6.8	7.9	9.0	10.1
800	2.4	3.2	4.0	4.8	5.6	6.4	7.2	3.0	4.0	5.0	6.0	7.0	8.0	9.0	3.6	4.8	6.0	7.2	8.4	9.6	10.8
850	2.6	3.4	4.3	5.1	6.0	6.8	7.7	3.2	4.3	5.3	6.4	7.4	8.5	9.6	3.8	5.1	6.4	7.7	8.9	10.2	11.5
900	2.7	3.6	4.5	5.4	6.3	7.2	8.1	3.4	4.5	5.6	6.8	7.9	9.0	10.1	4.1	5.4	6.8	8.1	9.5	10.8	12.2
950	2.9	3.8	4.8	5.7	6.7	7.6	8.6	3.6	4.8	5.9	7.1	8.3	9.5	10.7	4.3	5.7	7.1	8.6	10.0	11.4	12.8
1000	3.0	4.0	5.0	6.0	7.0	8.0	9.0	3.8	5.0	6.3	7.5	8.8	10.0	11.3	4.5	6.0	7.5	9.0	10.5	12.0	13.5
1050	3.2	4.2	5.3	6.3	7.4	8.4	9.5	3.9	5.3	6.6	7.9	9.2	10.5	11.8	4.7	6.3	7.9	9.5	11.0	12.6	14.2
1100	3.3	4.4	5.5	6.6	7.7	8.8	9.9	4.1	5.5	6.9	8.3	9.6	11.0	12.4	5.0	6.6	8.3	9.9	11.6	13.2	14.9
1150	3.5	4.6	5.8	6.9	8.1	9.2	10.4	4.3	5.8	7.2	8.6	10.1	11.5	12.9	5.2	6.9	8.6	10.4	12.1	13.8	15.5

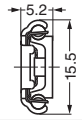
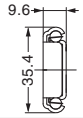
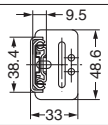
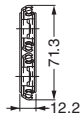
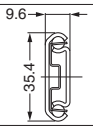
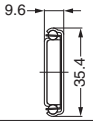
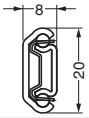
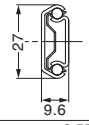
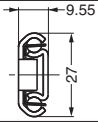
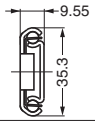
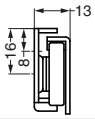
DRAWER SLIDES

SUGATSUNE

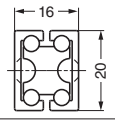
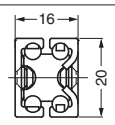
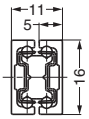
STAINLESS STEEL FULL EXTENSION SLIDES

Item Name	Load Capacity (pair)	Page	Side View	LOCK	FRICTION	DETACH	BUMPER	PUSH OPEN	HOLD CLOSED	HOLD OPENED	2-WAYS	CATCH	Silent & Soft Closing
SCR3	10～12 kgf	566											
ESR-3813	29～45 kgf	568				●	●		●				
ESR-4513	40～52 kgf	569				●	●		●				
ESR3	43～65 kgf	571				●	●						
ESR7	36.2～63.5 kgf	572		●		●							
SNS35W	36～62 kgf	572				●				●			
ESR10	182～272 kgf	574											
ESR2031	13～17 kgf	575											
5302S	64～116 kgf	576											
273SL	12～18 kgf	577				●							
SNS27D	28～38 kgf	578											
SNS35D	45～60 kgf	579											
ESR4658	32～50 kgf	579				●	●		●				
TSS3	50～95 kgf	590											

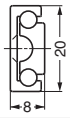
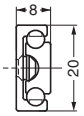
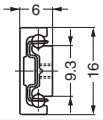
STAINLESS STEEL 3/4 EXTENSION SLIDES

Item Name	Load Capacity (pair)	Page	Side View	LOCK	FRICTION	DETACH	BUMPER	POM	HOLD CLOSED	HOLD OPENED	2-WAYS	CATCH	Silent & Soft Closing
SCRW2 	14～18 kgf	567									●		
ESR1 	25～49 kgf	570			●	●							
ESR2 	5～8 kgf	570			●	●							
ESR5 	80～114 kgf	571											
ESR8 	25～49 kgf	573		●		●							
ESR13 	25～49 kgf	574							●				
ESR2021	11～16 kgf	575											
272SL 	14～18 kgf	576				●							
SNS27S 	18～26 kgf	577											
SNS35S 	25～49 kgf	578											
RKA5 (SUS430) 	15 kgf	592				●						●	

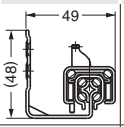
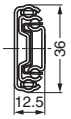
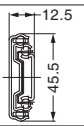
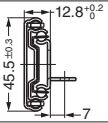
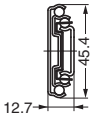
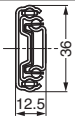
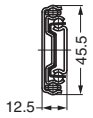
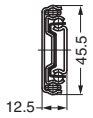
ALUMINIUM FULL EXTENSION SLIDES

Item Name	Load Capacity (pair)	Page	Side View	LOCK	FRICTION	DETACH	BUMPER	POM	HOLD CLOSED	HOLD OPENED	2-WAYS	CATCH	Silent & Soft Closing
AR3	3.1～11.2 kgf	588											
AR3-K 	8.7～10.7 kgf	589								●			
AR3-16 	2～4 kgf	591											

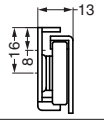
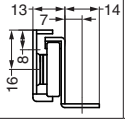
ALUMINIUM 3/4 EXTENSION SLIDES

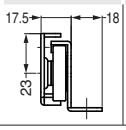
Item Name	Load Capacity (pair)	Page	Side View	LOCK	FRICTION	DETACH	BUMPER	PUSH OPEN	HOLD CLOSED	HOLD OPENED	2-WAYS	CATCH	Silent & Soft Closing
AR2	8.2～15.3 kgf	588											
AR2-K 	8.7～12.7 kgf	589								●			
ARW2-16 	3～7/ 1.1～3.1 kgf	591									●		

STEEL FULL EXTENSION SLIDES

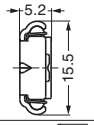
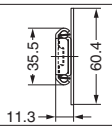
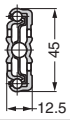
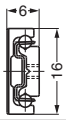
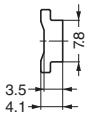
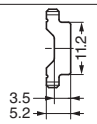
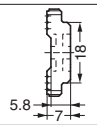
Item Name	Load Capacity (pair)	Page	Side View	LOCK	FRICTION	DETACH	BUMPER	PUSH OPEN	HOLD CLOSED	HOLD OPENED	2-WAYS	CATCH	Silent & Soft Closing
2150 	20～40 kgf	580				●		●	●				
3660	15～20 kgf	581				●	●	●					
4660 	15～45 kgf	582				●	●	●					
4061	20～45 kgf	583				●		●					
4638 	27～45 kgf	584				●		●		●			
3670	15～20 kgf	585				●	●					●	●
4670 	15～40 kgf	586				●	●					●	●
4670BL 	15～40 kgf	587				●	●					●	●

STEEL 3/4 EXTENSION SLIDES

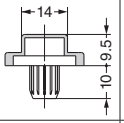
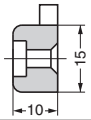
Item Name	Load Capacity (pair)	Page	Side View	LOCK	FRICTION	DETACH	BUMPER	PUSH OPEN	HOLD CLOSED	HOLD OPENED	2-WAYS	CATCH	Silent & Soft Closing
RKA5 	15 kgf	592				●						●	
RKA6 	15 kgf	593				●						●	

Item Name	Load Capacity (pair)	Page	Side View	Features
RJA6	30 kgf	593		DETACH ● CATCH ●

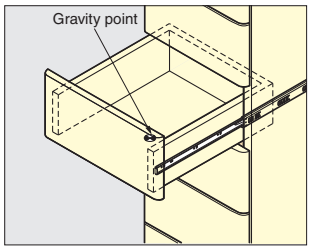
LINEAR SLIDES

Item Name	Load Capacity (pair)	Page	Side View	Features
SCRL2	18～24 kgf	567		
ESR9	5 kgf	573		
TSSL	—	590		
ARL2-16	2～5/ 0.8～1.8 kgf	591		
MR-15CS	Horizontal static 10.2 kgf, Vertical static 3.06 kgf	596, 598		
MR-20CS	Horizontal static 30.6 kgf, Vertical static 17.8 kgf	596, 598		
MR-50CN	Horizontal static 53 kgf, Vertical static 31.1 kgf	596, 598		
MRS	—	597	—	

OTHERS

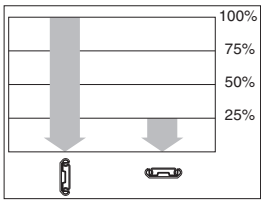
Item Name	Load Capacity (pair)	Page	Side View	Features
SB-275A	5 kgf	594	—	
SB-257-R2	5 kgf	594		
SB-300R	5 kgf	595		
GDSR144-R	—	595	—	

TERMS OF LOAD CAPACITY OF DRAWER SLIDES

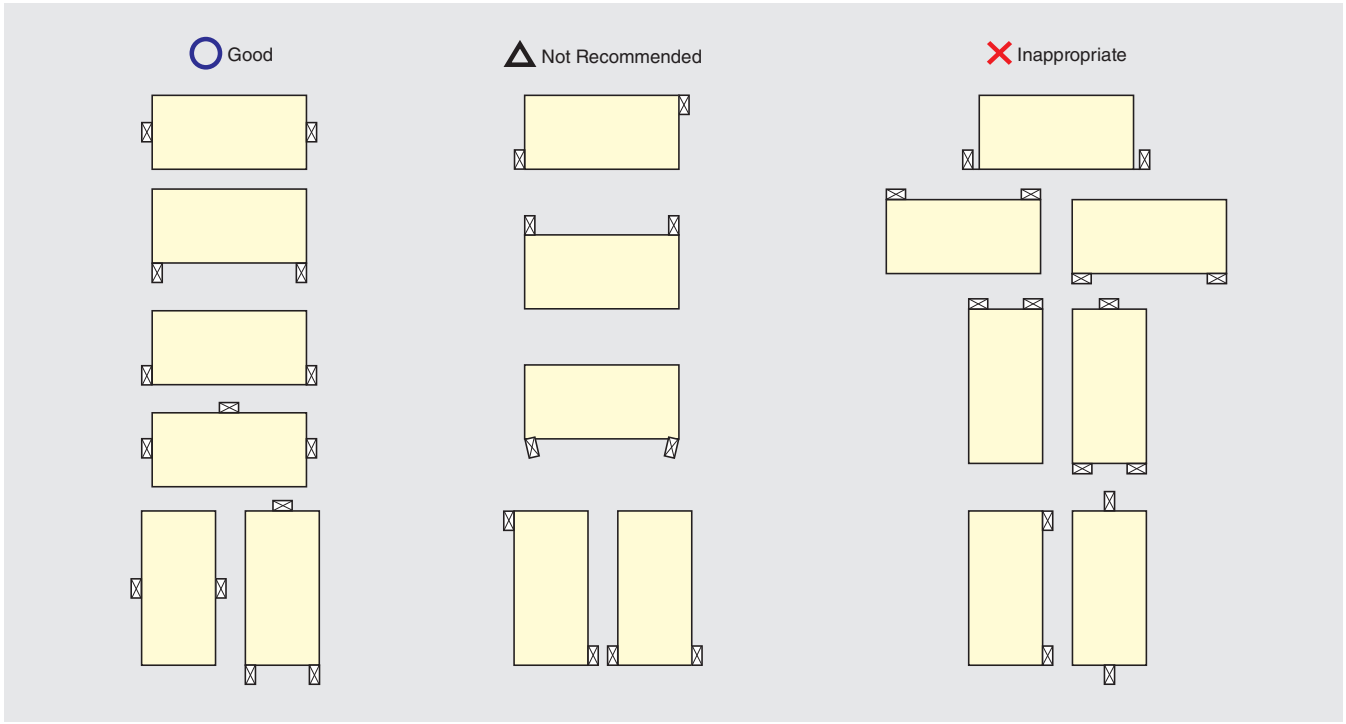


Drawer slides are to be installed to drawers vertically with firm screws.
Under the conditions that the drawer width is 300 mm and the opening frequency is 10 times /month, the load capacity is determined as the maximum loading weight at the gravity point on the drawer: the middle of width and travel length of the installed slide.

※The load capacity will be generally less than 25% in under-mount installations as shown in the chart.
Note that the load capacity varies depending on conditions of the application.



■Installation of Drawer Slides

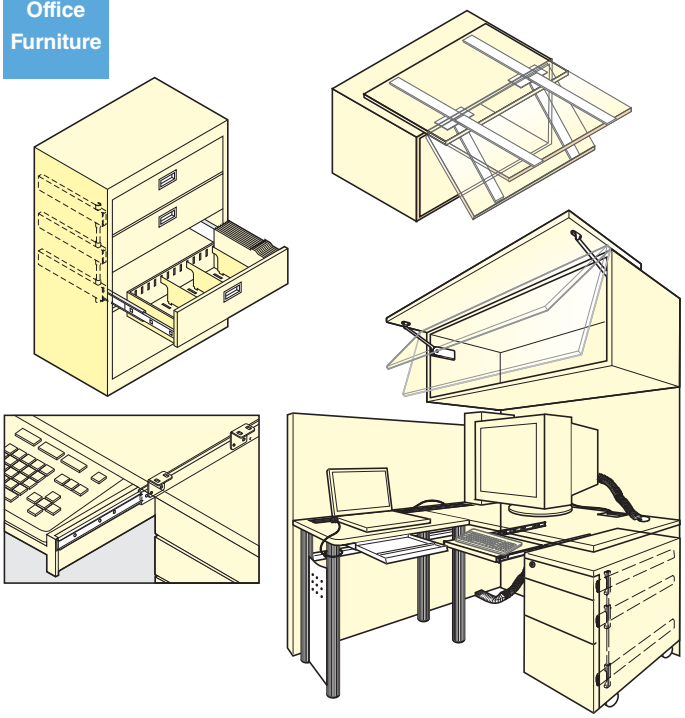


Functions

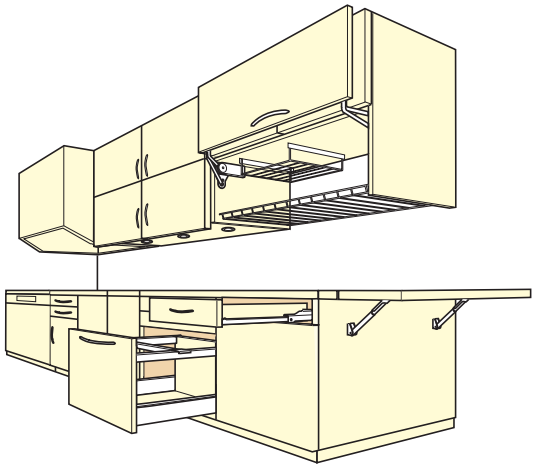
LOCK	The drawer can be held in opened position.	HOLD CLOSED	The drawer can be held in the fully closed position.
FRICTION	The drawer can be stopped at any position by the resistance of the ball retainer. The drawer can be detached by pulling outward.	HOLD OPENED	The drawer can be held in the fully opened position.
DETACH	The drawer is detachable.	2-WAYS	The drawer can be moved to both ways.
BUMPER	With a bumper to avoid metal-to-metal noise at the end of the course.	CATCH	Self-closing system catches the drawer when closing.
PUSH OPEN	Push to open.	Silent & Soft Closing	Silent and soft-closing.

APPLICATION EXAMPLES

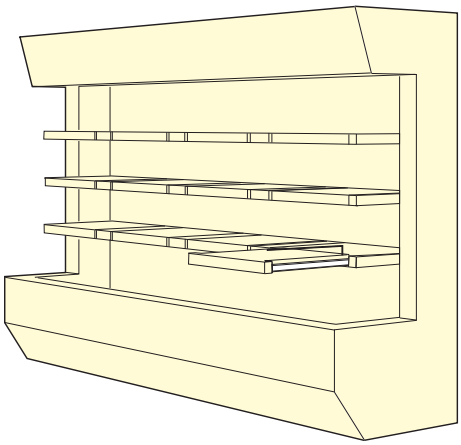
Office Furniture



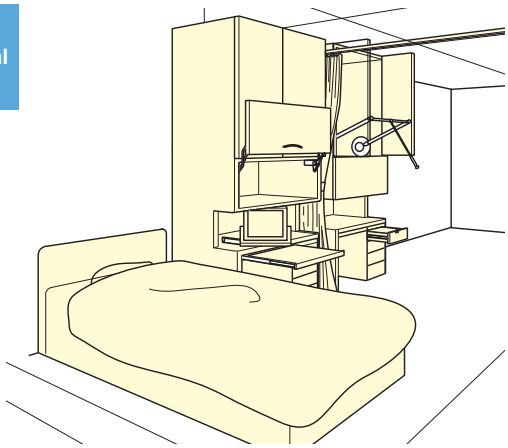
Kitchen



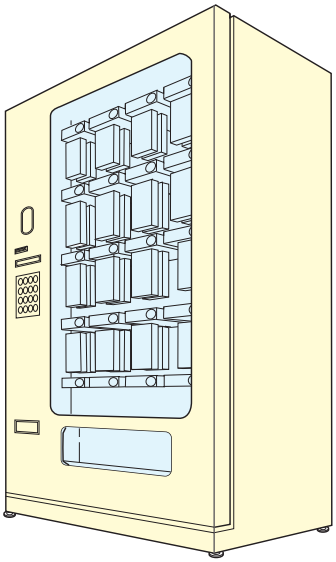
Shop



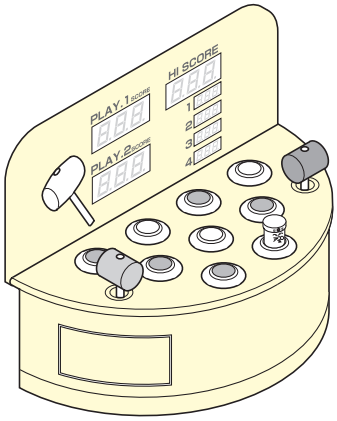
Hospital



Vending Machine



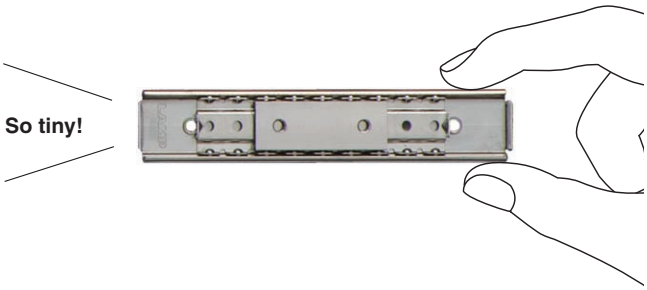
Gaming Machine

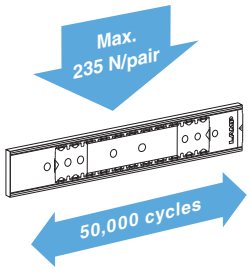


COMPACT SLIDE RAIL – SERIES DIGEST

■Features

- SCR series are newly launched.
- Special inner and intermediate profile allows ultra thin size.
- All SCR types successfully passed for the 50,000 open/close cycle test.





16
15.5
(mm)

	NEW	NEW	NEW			
Item Name	SCR3	SCRW2	SCRL2	ARW2-16	AR3-16	ARL2-16
Load Capacity (N)	98～118	137～177	177～235	11～69	20～39	8～49
Material	Stainless Steel			Aluminium Alloy		

STAINLESS STEEL MINI SLIDE (FULL EXTENSION) L=R STAINLESS 304 STEEL SCR3

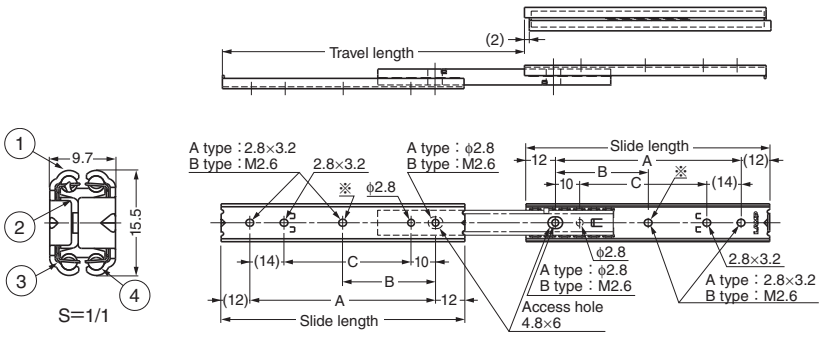


■Features

- Full extension (3 members).
- Ultra slim profile.
- Special inner member allows smooth movement.

■Recommended Screws

- M2.6 low head screw (for A type)
- M2.6 screw (for B type)
- Max. screw length = Board thickness + 1.7 mm



※No hole on 80 mm type.

No.	Part Name	Material
①	Outer Rail	Stainless Steel (SUS304)
②	Inner Rail	Stainless Steel (SUS304)
③	Retainer	Stainless Steel (SUS304)
④	Balls	Steel

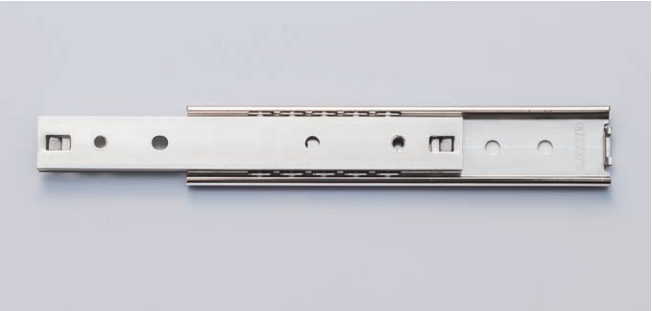
Sold by piece.

Item Code	Item Name	Holes	Slide Length	Travel Length	A	B	C	Load Capacity N [ ]	Load Capacity kgf [ ]	Weight	Box	Carton
190-026-614	SCR3-15- 80A	A Type	80	97	56	–	32	98 N/pair	10 kgf/pair	36 g	50 pcs	200 pcs
190-026-615	SCR3-15-100A	A Type	100	125	76	38	52	108 N/pair	11 kgf/pair	45 g	50 pcs	200 pcs
190-026-616	SCR3-15-150A	A Type	150	177	126	63	102	118 N/pair	12 kgf/pair	70 g	50 pcs	200 pcs
190-026-617	SCR3-15- 80B	B Type	80	97	56	–	32	98 N/pair	10 kgf/pair	36 g	50 pcs	200 pcs
190-026-618	SCR3-15-100B	B Type	100	125	76	38	52	108 N/pair	11 kgf/pair	45 g	50 pcs	200 pcs
190-026-619	SCR3-15-150B	B Type	150	177	126	63	102	118 N/pair	12 kgf/pair	70 g	50 pcs	200 pcs

STAINLESS STEEL MINI SLIDE (2-WAY)

2-WAYS L=R STAINLESS 304 STEEL

SCRW2

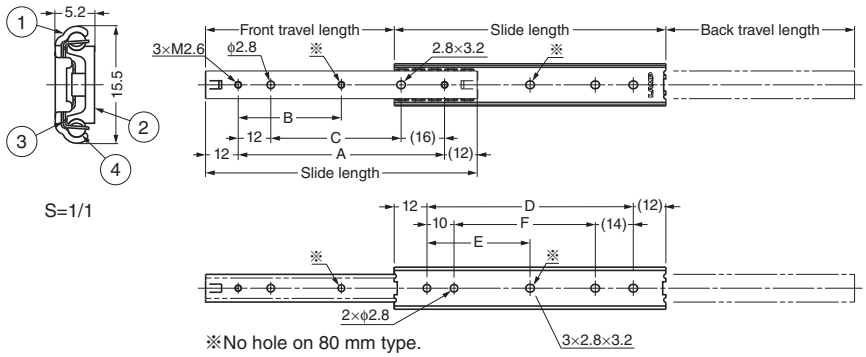


■Features

- 3/4 extension (2 members).
- Ultra slim profile.
- Special inner member allows smooth movement.
- The drawer can be moved to both directions.

■Recommended Screws

- M2.6 low head screw (for outer rail)
- M2.6 screw (for inner rail)
- Max. screw length = Board thickness + 1.5 mm



S=1/1

※No hole on 80 mm type.

No.	Part Name	Material
①	Outer Rail	Stainless Steel (SUS304)
②	Inner Rail	Stainless Steel (SUS304)
③	Retainer	Stainless Steel (SUS304)
④	Balls	Steel

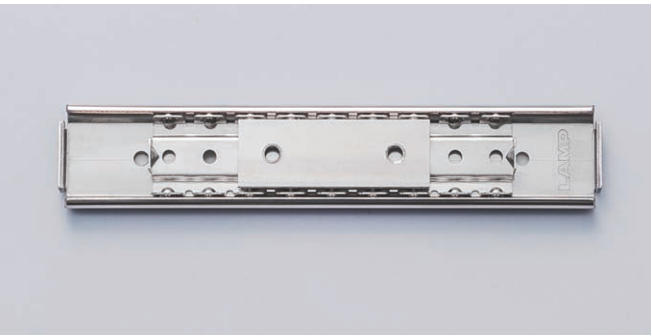
Sold by piece.

Item Code	Item Name	Slide Length	Front Travel Length	Back Travel Length	A	B	C	D	E	F	Load Capacity N [ ]	Load Capacity kgf [ ]	Weight	Box	Carton
190-026-620	SCRW2-15- 80A	80	48.5	48.5	56	—	28	56	—	32	137 N/pair	14 kgf/pair	21 g	50 pcs	200 pcs
190-026-621	SCRW2-15-100A	100	68.5	68.5	76	38	48	76	38	52	157 N/pair	16 kgf/pair	26 g	50 pcs	200 pcs
190-026-622	SCRW2-15-150A	150	94.5	94.5	126	63	98	126	63	102	177 N/pair	18 kgf/pair	41 g	50 pcs	200 pcs

STAINLESS STEEL MINI GUIDE

L=R STAINLESS 304 STEEL

SCRL2

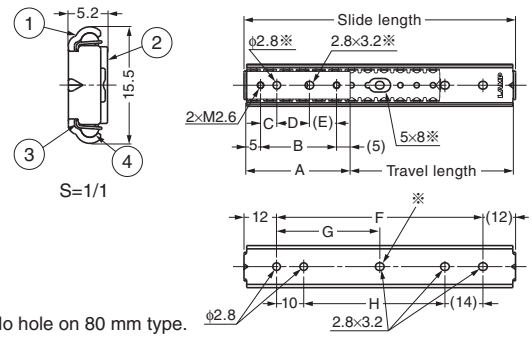


■Features

- Ultra slim profile.
- Special inner member allows smooth movement.

■Recommended Screws

- M2.6 low head screw (for outer rail)
- M2.6 screw (for inner rail) Screw length = Panel thickness + Max. 1.5



S=1/1

※No hole on 80 mm type.

No.	Part Name	Material
①	Outer Rail	Stainless steel (SUS304)
②	Inner Rail	Stainless steel (SUS304)
③	Retainer	Stainless steel (SUS304)
④	Balls	Steel

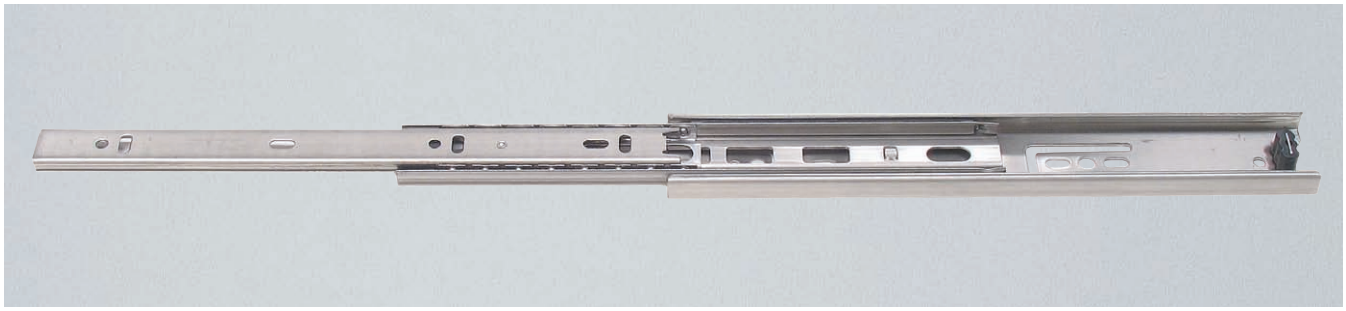
Sold by piece.

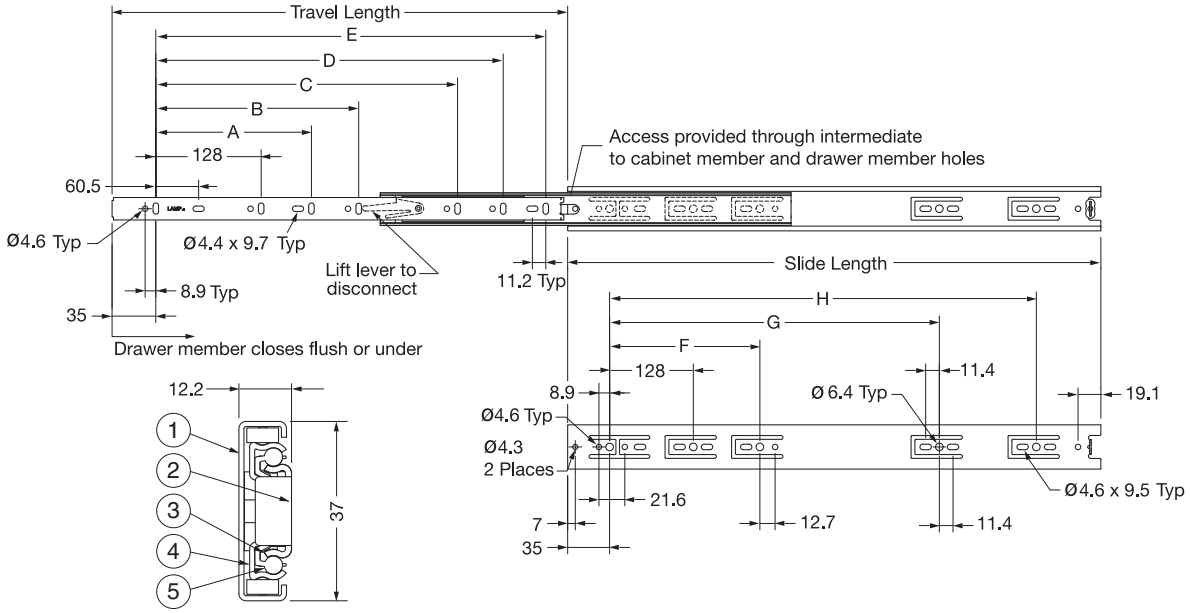
Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	Load Capacity N [ ]	Load Capacity kgf [ ]	Weight	Box	Carton
190-026-623	SCRL2-15- 80A	80	49	28	18	—	—	—	56	—	32	177 N/pair	18 kgf/pair	16 g	50 pcs	200 pcs
190-026-624	SCRL2-15-100A	100	59	38	28	6	12	10	76	38	52	206 N/pair	21 kgf/pair	20 g	50 pcs	200 pcs
190-026-625	SCRL2-15-150A	150	109	38	28	6	12	10	126	63	102	206 N/pair	21 kgf/pair	29 g	50 pcs	200 pcs
190-026-626	SCRL2-15-200A	200	149	48	38	10	14	14	176	88	152	235 N/pair	24 kgf/pair	38 g	50 pcs	200 pcs

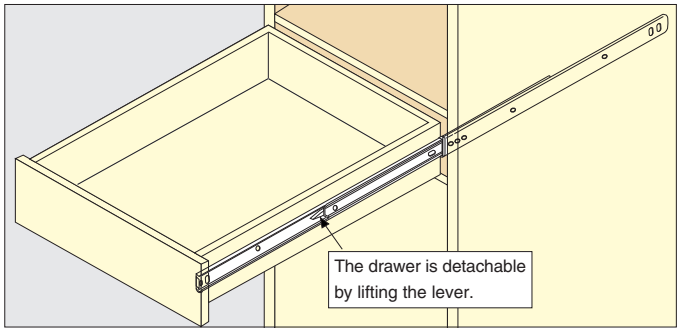
FULL EXTENSION SLIDE

DETACH | BUMPER | HOLD CLOSED | L=R | STAINLESS 304 STEEL

ESR-3813







Installation

■Features

- Full extension.
- The drawer is detachable by lifting the lever.
- With a bumper to avoid metal-to-metal noise at the end of the course.
- The drawer can be held in the fully closed position.
- Non-handed.
- Mount with M4 Binding, Pan, or Truss head screws.

No.	Part	Material
①	Outer Rail	304 Stainless Steel
②	Inner Rail	
③	Retainer	
④	Intermediate Member	
⑤	Balls	

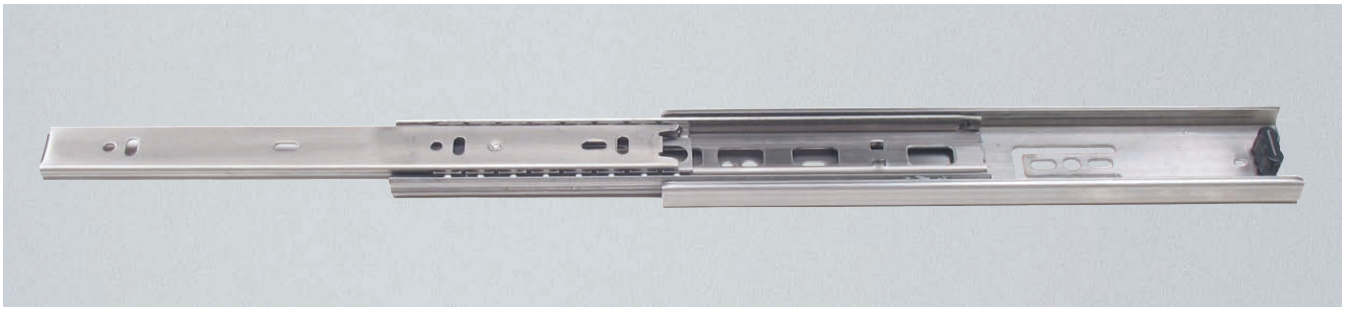
Sold in pairs (2 pcs).

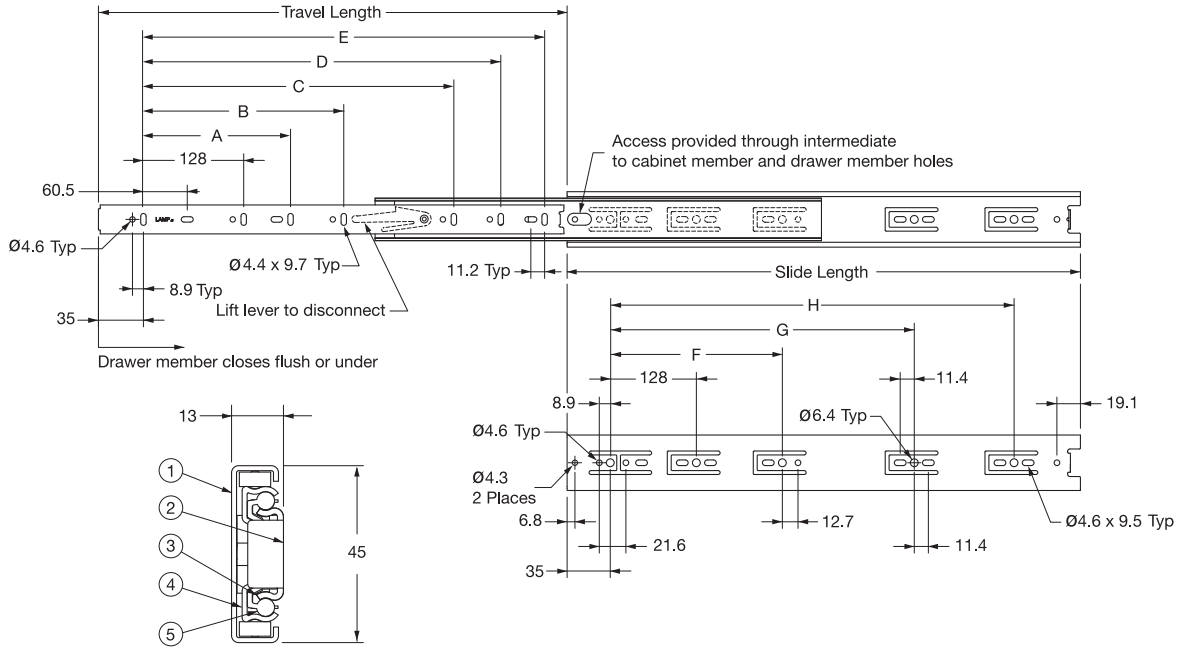
Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	Load Capacity	Weight	Box
190-118-877	ESR-3813-8	200	200	–	–	–	–	142	–	–	–	45 kgf/pair	400 g/pair	10 pairs
190-118-878	ESR-3813-10	250	243	–	–	–	–	192	–	–	–	42 kgf/pair	530 g/pair	
190-118-879	ESR-3813-12	300	305	–	–	–	–	242	224	–	–	40 kgf/pair	637 g/pair	
190-118-880	ESR-3813-14	350	355	–	–	–	–	292	224	–	–	38 kgf/pair	726 g/pair	
190-118-881	ESR-3813-16	400	406	–	–	–	–	342	224	320	–	36 kgf/pair	816 g/pair	
190-118-882	ESR-3813-18	450	457	–	–	320	–	392	224	352	–	34 kgf/pair	910 g/pair	
190-118-883	ESR-3813-20	500	508	–	–	320	–	442	224	416	–	33 kgf/pair	1000 g/pair	
190-118-884	ESR-3813-22	550	559	–	–	320	416	492	224	352	448	31 kgf/pair	1090 g/pair	
190-118-885	ESR-3813-24	600	610	224	–	416	–	542	224	352	480	29 kgf/pair	1180 g/pair	

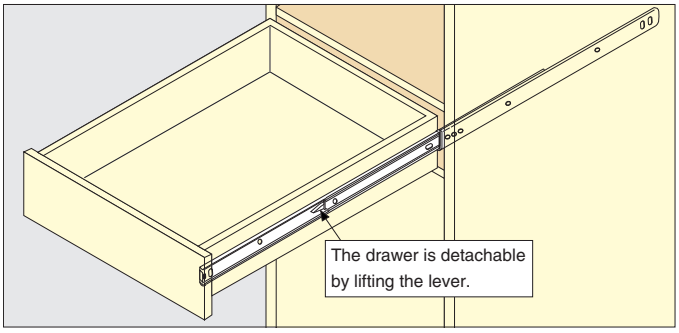
FULL EXTENSION SLIDE

DETACH BUMPER HOLD CLOSED L=R STAINLESS 304 STEEL

ESR-4513







Installation

■Features

- Full extension.
- The drawer is detachable by lifting the lever.
- With a bumper to avoid metal-to-metal noise at the end of the course.
- The drawer can be held in the fully closed position.
- Non-handed.
- Mount with M4 Binding, Pan, or Truss head screws.

No.	Part	Material
①	Outer Rail	304 Stainless Steel
②	Inner Rail	
③	Retainer	
④	Intermediate Member	
⑤	Balls	

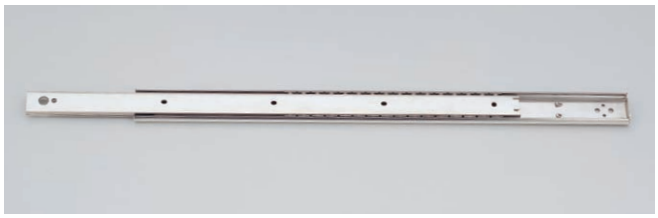
Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	Load Capacity	Weight	Box
190-118-867	ESR-4513-10	250	243	–	–	–	–	192	–	–	–	52 kgf/pair	743 g/pair	10 pairs
190-118-868	ESR-4513-12	300	305	–	–	–	–	242	224	–	–	50 kgf/pair	932 g/pair	
190-118-869	ESR-4513-14	350	355	–	–	–	–	292	224	–	–	49 kgf/pair	1070 g/pair	
190-118-870	ESR-4513-16	400	406	–	–	–	–	342	224	320	–	47 kgf/pair	1223 g/pair	
190-118-871	ESR-4513-18	450	457	–	–	320	–	392	224	352	–	46 kgf/pair	1376 g/pair	
190-118-872	ESR-4513-20	500	508	–	–	320	–	442	224	416	–	44 kgf/pair	1530 g/pair	
190-118-873	ESR-4513-22	550	559	–	–	320	416	492	224	352	448	43 kgf/pair	1682 g/pair	
190-118-874	ESR-4513-24	600	610	224	–	416	–	542	224	352	480	42 kgf/pair	1835 g/pair	
190-118-875	ESR-4513-26	650	660	224	–	416	544	592	224	352	544	41 kgf/pair	1988 g/pair	
190-118-876	ESR-4513-28	700	711	224	288	416	544	642	224	352	544	40 kgf/pair	2141 g/pair	

3/4 EXTENSION SLIDE

FRICTION DETACH TEST METHOD 12 L=R STAINLESS 304 STEEL

ESR1

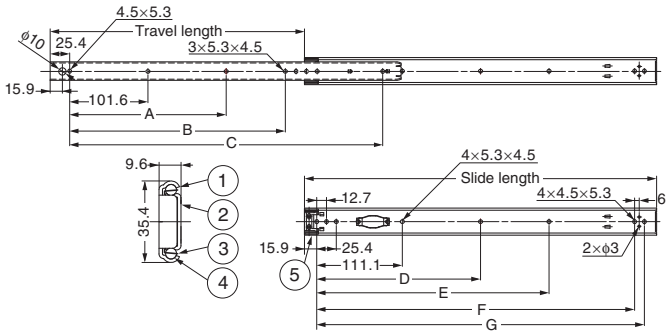


■Features

- 3/4 extension slide (2 members).
- The drawer can be stopped at any position by the resistance of the ball retainer. The drawer can be detached by pulling outward.

■Recommended Screws

M4 binding screw or M4 truss screw



No.	Part Name	Material	Finish/Color
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS304)	—
⑤	Guide	Polyacetal (POM)	White

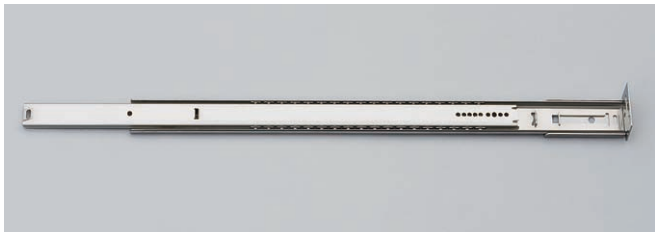
Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	Load Capacity		Weight	Box
190-111-301	ESR1-12	304.8	228.6	—	152.4	254	—	149.2	260.3	273	481 N/pair	49 kgf/pair	0.32 kg/pc	30 pcs
190-111-302	ESR1-14	355.6	279.4	—	203.2	304.8	—	200	311.1	323.8	461 N/pair	47 kgf/pair	0.37 kg/pc	30 pcs
190-111-303	ESR1-16	406.4	304.8	—	254	355.6	—	250.8	361.9	374.6	422 N/pair	43 kgf/pair	0.43 kg/pc	30 pcs
190-111-304	ESR1-18	457.2	330.2	203.2	304.8	406.4	212.7	301.6	412.7	425.4	402 N/pair	41 kgf/pair	0.48 kg/pc	30 pcs
190-111-305	ESR1-20	508	381	228.6	355.6	457.2	238.1	352.4	463.5	476.2	363 N/pair	37 kgf/pair	0.54 kg/pc	30 pcs
190-111-306	ESR1-22	558.8	406.4	254	406.4	508	263.5	403.2	514.3	527	333 N/pair	34 kgf/pair	0.60 kg/pc	30 pcs
190-111-307	ESR1-24	609.6	432.8	279.4	457.2	558.8	288.9	454	565.1	577.8	294 N/pair	30 kgf/pair	0.66 kg/pc	30 pcs
190-111-308	ESR1-26	660.4	482.6	304.8	508	609.6	314.3	504.8	615.9	628.6	265 N/pair	27 kgf/pair	0.71 kg/pc	30 pcs
190-111-309	ESR1-28	711.2	508	330.2	558.8	660.4	339.7	555.6	666.7	679.4	245 N/pair	25 kgf/pair	0.76 kg/pc	30 pcs

3/4 EXTENSION SLIDE

FRICTION DETACH L=R STAINLESS 304 STEEL

ESR2

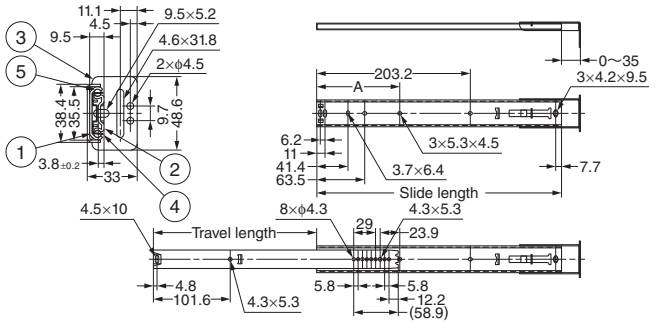


■Features

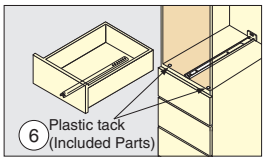
- Under-mount type. Ideal for limited spaces.
- 3/4 extension slide (2 members).
- The drawer can be stopped at any position by the resistance of the ball retainer. The drawer can be detached by pulling outward.

■Parts Included

Two plastic tacks.



■Application Example



No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Bracket	Stainless Steel (SUS304)	Plain
④	Retainer	Stainless Steel (SUS304)	Plain
⑤	Balls	Stainless Steel (SUS304)	—
⑥	Plastic Tack	Plastic	—

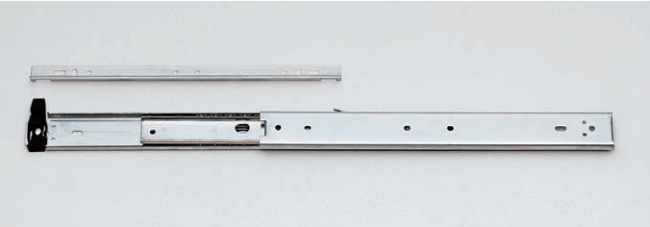
Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	Load Capacity N	Load Capacity kgf	Weight	Box
190-111-310	ESR2-12	323.8	215.9	109.9	78 N/piece	8 kgf/piece	0.4 kg/pc	20 pcs
190-111-311	ESR2-14	374.6	266.7	160.7	74 N/piece	7.5 kgf/piece	0.43 kg/pc	20 pcs
190-111-312	ESR2-16	425.4	304.8	—	69 N/piece	7 kgf/piece	0.48 kg/pc	20 pcs
190-111-313	ESR2-18	476.2	317.5	262.3	69 N/piece	7 kgf/piece	0.53 kg/pc	20 pcs
190-111-314	ESR2-20	527	368.3	313.1	64 N/piece	6.5 kgf/piece	0.57 kg/pc	20 pcs
190-111-315	ESR2-22	577.8	419.1	363.9	59 N/piece	6 kgf/piece	0.62 kg/pc	20 pcs
190-111-316	ESR2-24	628.6	444.5	414.7	54 N/piece	5.5 kgf/piece	0.66 kg/pc	20 pcs
190-111-317	ESR2-26	679.4	495.3	465.5	49 N/piece	5 kgf/piece	0.71 kg/pc	20 pcs

FULL EXTENSION SLIDE

DETACH BUMPER STAINLESS 304 STEEL

ESR3

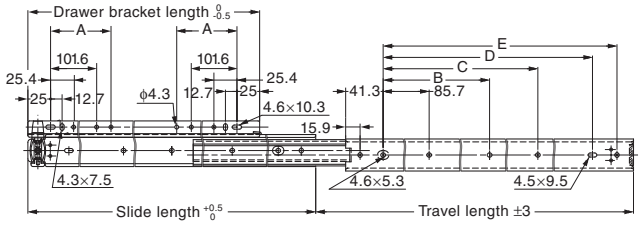


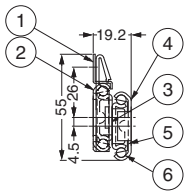
■Features

- Full extension (3 members).
- The drawer is detachable by lifting the lever.
- With a bumper to avoid metal-to-metal noise at the end of the course.

■Recommended Screws

M4 binding screw





No.	Part Name	Material	Finish
①	Drawer Bracket	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Intermediate Member	Stainless Steel (SUS304)	Plain
④	Outer Rail	Stainless Steel (SUS304)	Plain
⑤	Retainer	Stainless Steel (SUS304)	Plain
⑥	Balls	Stainless Steel (SUS304)	—

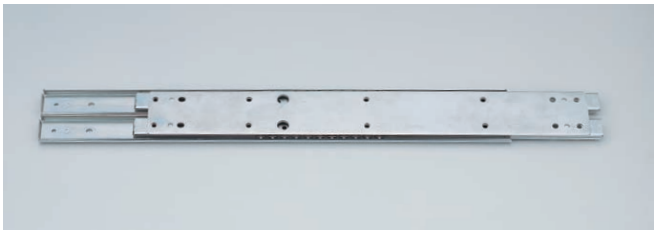
Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	Drawer Bracket Length	A	B	C	D	E	Outer Rail Holes	Load Capacity		Weight	Box
190-115-206	ESR3-12	304.8	348.4	273	—	—	123.1	218.3	245.3	6	637 N/pair	65 kgf/pair	0.68 kg/pair	6 pairs
190-115-207	ESR3-14	355.6	399.2	273	—	—	173.9	269.1	296.1	6	598 N/pair	61 kgf/pair	0.78 kg/pair	6 pairs
190-115-208	ESR3-16	406.4	450	375	—	—	224.7	319.9	346.9	6	598 N/pair	61 kgf/pair	0.91 kg/pair	6 pairs
190-110-413	ESR3-18	457.2	500.8	375	—	187.3	275.5	370.7	397.7	7	549 N/pair	56 kgf/pair	1.01 kg/pair	6 pairs
190-115-210	ESR3-20	508	551.6	375	—	212.7	326.3	421.5	448.5	7	510 N/pair	52 kgf/pair	1.11 kg/pair	6 pairs
190-115-211	ESR3-22	558.8	602.4	527	177.8	238.1	377.1	472.3	499.3	7	510 N/pair	52 kgf/pair	1.26 kg/pair	6 pairs
190-115-212	ESR3-24	609.6	653.2	527	177.8	263.5	427.9	523.1	550.1	7	471 N/pair	48 kgf/pair	1.37 kg/pair	6 pairs
190-110-417	ESR3-26	660.4	704	575.3	177.8	288.9	478.7	573.9	600.9	7	422 N/pair	43 kgf/pair	1.48 kg/pair	6 pairs
190-115-214	ESR3-28	711.2	754.8	575.3	177.8	314.3	529.5	624.7	651.7	7	422 N/pair	43 kgf/pair	1.58 kg/pair	6 pairs

3/4 EXTENSION SLIDE

L=R STAINLESS 304 STEEL

ESR5

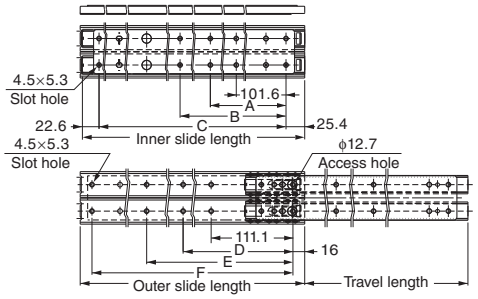


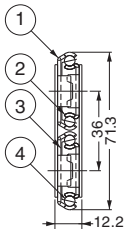
■Features

3/4 extension (2 members) for heavy duty applications.

■Recommended Screws

M4 binding screw or truss head screw





No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Satin
②	Inner Rail	Stainless Steel (SUS304)	Satin
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS304)	Plain

Sold by piece.

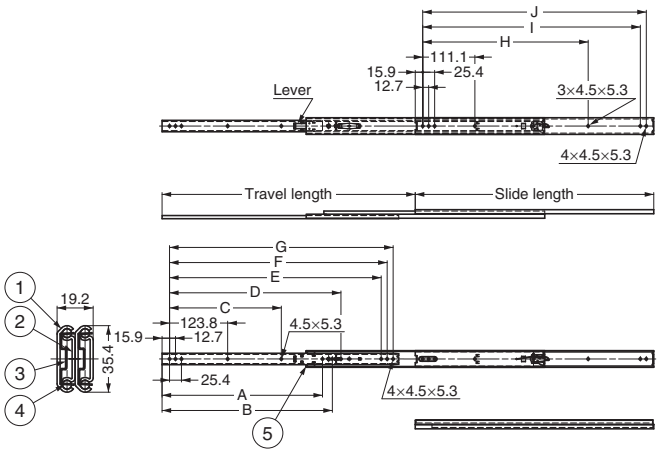
Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	Inner Rail Holes	Outer Rail Holes	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-428	ESR5-12	305	221.8	—	152.4	254	—	149.2	273	6	8	1118 N/pair	114 kgf/pair	0.9 kgf/pc	12 pcs
190-110-429	ESR5-14	355.8	259.9	—	203.2	304.8	—	200	323.8	6	8	1069 N/pair	109 kgf/pair	1.0 kgf/pc	12 pcs
190-110-430	ESR5-16	406.6	298	—	254	355.6	—	250.8	374.6	6	8	1020 N/pair	104 kgf/pair	1.2 kgf/pc	12 pcs
190-110-431	ESR5-18	457.4	348.8	203.2	304.8	406.4	212.7	301.6	425.4	6	10	1000 N/pair	102 kgf/pair	1.3 kgf/pc	12 pcs
190-110-432	ESR5-20	508.2	361.5	228.6	355.6	457.2	238.1	352.4	476.2	6	10	971 N/pair	99 kgf/pair	1.5 kgf/pc	12 pcs
190-110-433	ESR5-22	559	425	254	406.4	508	263.5	403.2	527	6	10	922 N/pair	94 kgf/pair	1.6 kgf/pc	12 pcs
190-110-434	ESR5-24	609.8	450.4	279.4	457.2	558.8	288.9	454	577.8	6	10	873 N/pair	89 kgf/pair	1.8 kgf/pc	12 pcs
190-110-435	ESR5-26	660.6	463.1	304.8	508	609.6	314.3	504.8	628.6	6	10	843 N/pair	86 kgf/pair	1.9 kgf/pc	12 pcs
190-110-436	ESR5-28	711.4	501.2	330.2	558.8	660.4	339.7	555.6	679.4	6	10	785 N/pair	80 kgf/pair	2.0 kgf/pc	12 pcs

FULL EXTENSION SLIDE

LOCK | DETACH | L=R | STAINLESS 304 STEEL

ESR7





■Features

- Full extension (3 members).
- The drawer can be held in opened position.
- The drawer is detachable by lifting the lever.
- Non-handed.

■Recommended Screws

M4 binding screw or truss head screw

No.	Part Name	Material	Finish/Colour
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS304)	—
⑤	Guide	Polyacetal (POM)	White

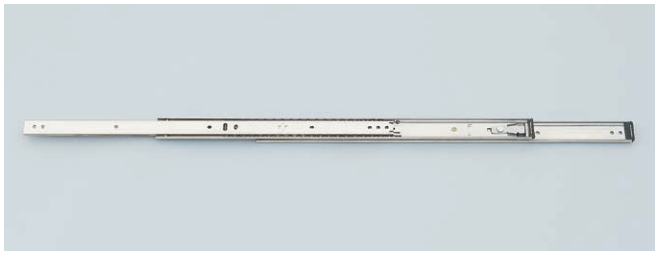
Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	I	J	Load Capacity N	Load Capacity kgf	Box
190-111-318	ESR7-12	304.8	336	228	248.4	—	—	—	260.3	273	—	260.3	273	623 N/pair	63.5 kgf/pair	16 pcs
190-111-319	ESR7-14	355.6	386.8	278.8	299.2	—	—	—	311.1	323.8	—	311.1	323.8	586 N/pair	59.8 kgf/pair	16 pcs
190-111-320	ESR7-16	406.4	437.6	291.5	311.9	—	—	349.2	361.9	374.6	250.8	361.9	374.6	555 N/pair	56.6 kgf/pair	16 pcs
190-111-321	ESR7-18	457.2	488.4	316.9	337.3	212.7	—	400	412.7	425.4	301.6	412.7	425.4	516 N/pair	52.6 kgf/pair	16 pcs
190-111-322	ESR7-20	508	539.2	342.3	362.7	238.1	—	450.8	463.5	476.2	352.4	463.5	476.2	476 N/pair	48.5 kgf/pair	16 pcs
190-111-323	ESR7-22	558.8	590	367.7	388.1	263.5	415.9	501.6	514.3	527	403.2	514.3	527	444 N/pair	45.3 kgf/pair	16 pcs
190-111-324	ESR7-24	609.6	640.8	393.1	413.5	288.9	466.7	552.4	565.1	577.8	454	565.1	577.8	413 N/pair	42.1 kgf/pair	16 pcs
190-111-325	ESR7-26	660.4	691.6	418.5	438.9	314.3	517.5	603.2	615.9	628.6	504.8	615.9	628.6	383 N/pair	39 kgf/pair	16 pcs
190-111-326	ESR7-28	711.2	742.4	443.9	464.3	339.7	568.3	654	666.7	679.4	555.6	666.7	679.4	355 N/pair	36.2 kgf/pair	16 pcs

FULL EXTENSION SLIDE

DETACH | HOLD OPENED | L=R | STAINLESS 304 STEEL

SNS35W

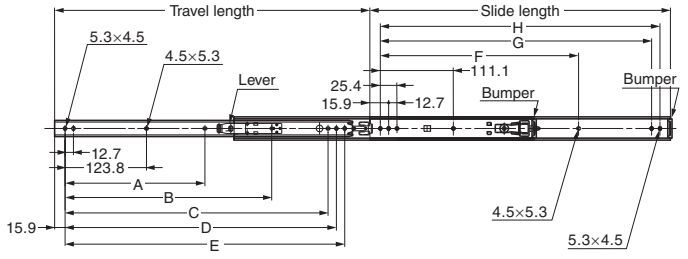


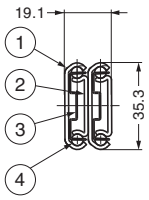
■Features

- Full extension (3 members).
- The drawer is detachable by lifting the lever.
- The drawer can be held in the fully opened position.
- Non-handed.

■Recommended Screws

M4 tapping screw or pan head-screw





No.	Part Name	Material	Finish/Colour
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS440)	—
⑤	Bumper	Elastomer (TPE)	Black

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	Load Capacity N	Load Capacity kgf	Weight	Box
190-112-231	SNS35W-30	304.8	327.2	—	—	—	260.3	273	—	260.3	273	623 N/pair	62 kgf/pair	0.78 kg/pc	20 pcs
190-112-232	SNS35W-35	355.6	377.9	—	—	298.4	311.1	323.8	—	311.1	323.8	586 N/pair	59 kgf/pair	0.903 kg/pc	20 pcs
190-112-233	SNS35W-40	406.4	428.7	—	—	349.2	361.9	374.6	250.8	361.9	374.6	555 N/pair	56 kgf/pair	1.028 kg/pc	20 pcs
190-112-234	SNS35W-45	457.2	479.5	212.7	—	400	412.7	425.4	301.6	412.7	425.4	516 N/pair	52 kgf/pair	1.151 kg/pc	20 pcs
190-112-235	SNS35W-50	508	530.3	238.1	365.1	450.8	463.6	476.2	352.4	463.6	476.2	475 N/pair	48 kgf/pair	1.275 kg/pc	20 pcs
190-112-236	SNS35W-55	558.8	581.2	263.5	415.9	501.6	514.3	527	403.2	514.3	527	444 N/pair	44 kgf/pair	1.399 kg/pc	20 pcs
190-112-237	SNS35W-60	609.6	631.9	288.9	466.7	552.4	565.1	577.8	454	565.1	577.8	413 N/pair	41 kgf/pair	1.523 kg/pc	20 pcs
190-112-238	SNS35W-65	660.4	682.7	314.3	517.5	603.2	615.9	628.6	504.8	615.9	628.6	382 N/pair	38 kgf/pair	1.647 kg/pc	20 pcs
190-112-239	SNS35W-70	711.2	733.5	339.7	568.3	654	666.7	679.4	555.6	666.7	679.4	355 N/pair	36 kgf/pair	1.77 kg/pc	20 pcs

3/4 EXTENSION SLIDE

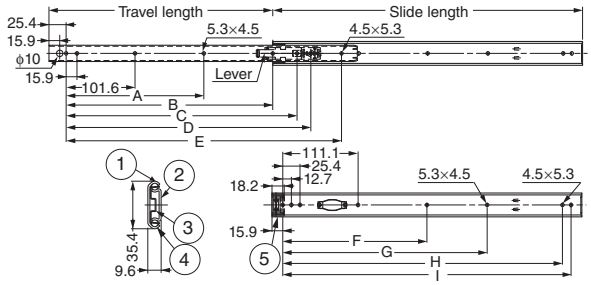
LOCK DETACH L=R STAINLESS 304 STEEL

ESR8



■Features

- 3/4 extension (2 members).
- The drawer can be held in opened position.
- The drawer is detachable by lifting the lever.
- Non-handed.



No.	Part Name	Material	Finish/Colour
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS304)	—
⑤	Guide	Polyacetal (POM)	White

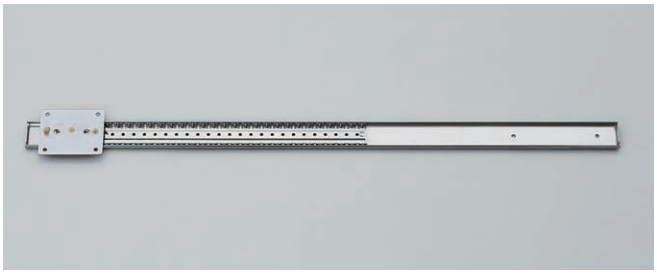
Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	I	Load Capacity		Weight	Box
190-111-327	ESR8-12	304.8	228.6	—	152.4	—	259.5	—	—	149.2	260.3	273	481 N/pair	49 kgf/pair	0.32 kg/pc	30 pcs
190-111-328	ESR8-14	355.6	279.4	—	203.2	—	310.3	—	—	200	311.1	323.8	461 N/pair	47 kgf/pair	0.38 kg/pc	30 pcs
190-111-329	ESR8-16	406.4	304.8	—	203.2	—	335.7	355.6	—	250.8	361.9	374.6	422 N/pair	43 kgf/pair	0.43 kg/pc	30 pcs
190-111-330	ESR8-18	457.2	330.2	203.2	—	340.7	366.1	406.4	212.7	301.6	412.7	425.4	402 N/pair	41 kgf/pair	0.48 kg/pc	30 pcs
190-111-331	ESR8-20	508	381	228.6	—	391.5	411.9	457.2	238.1	352.4	463.5	476.2	363 N/pair	37 kgf/pair	0.53 kg/pc	30 pcs
190-111-332	ESR8-22	558.8	406.4	254	—	416.9	437.3	508	263.5	403.2	514.3	527	333 N/pair	34 kgf/pair	0.58 kg/pc	30 pcs
190-111-333	ESR8-24	609.6	432.8	279.4	—	443.3	463.7	558.8	288.9	454	565.1	577.8	294 N/pair	30 kgf/pair	0.63 kg/pc	30 pcs
190-111-334	ESR8-26	660.4	482.6	304.8	—	493.1	513.5	609.6	314.3	504.8	615.9	628.6	265 N/pair	27 kgf/pair	0.68 kg/pc	30 pcs
190-111-335	ESR8-28	711.2	508	330.2	—	538.9	558.8	660.4	339.7	555.6	666.7	679.6	245 N/pair	25 kgf/pair	0.73 kg/pc	30 pcs

LINEAR BALL BEARING GUIDE

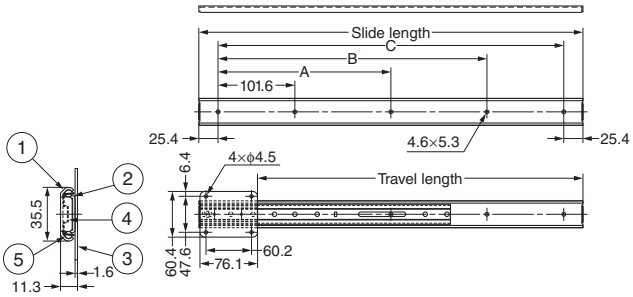
L=R STAINLESS 304 STEEL

ESR9



■Features

- Ideal for doors of small cabinets. 2 slides can support up to 5 kg.
- Mounting plate attached.



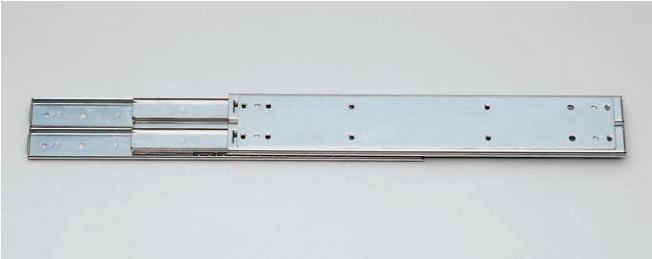
No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Mounting Plate	Stainless Steel (SUS304)	Plain
④	Retainer	Stainless Steel (SUS304)	Plain
⑤	Balls	Stainless Steel (SUS304)	—

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	Load Capacity	Weight	Box
190-111-336	ESR9-12	304.8	225	—	152.4	254	5 kgf/pair	0.28 kg/pair	22 pcs
190-111-337	ESR9-14	355.6	276	—	203.2	304.8	5 kgf/pair	0.31 kg/pair	22 pcs
190-111-338	ESR9-16	406.4	327	—	254	355.6	5 kgf/pair	0.34 kg/pair	22 pcs
190-111-339	ESR9-18	457.2	378	203.2	304.8	406.4	5 kgf/pair	0.37 kg/pair	22 pcs
190-111-340	ESR9-20	508	428	228.6	355.6	457.2	5 kgf/pair	0.40 kg/pair	22 pcs
190-111-341	ESR9-22	558.8	479	254	406.4	508	5 kgf/pair	0.44 kg/pair	22 pcs
190-111-342	ESR9-24	609.6	530	279.4	457.2	558.8	5 kgf/pair	0.47 kg/pair	22 pcs
190-111-343	ESR9-26	660.4	581	304.8	508	609.6	5 kgf/pair	0.50 kg/pair	22 pcs
190-111-344	ESR9-28	711.2	632	330.2	558.8	660.4	5 kgf/pair	0.54 kg/pair	22 pcs

FULL EXTENSION SLIDE

L=R STAINLESS 304 STEEL **ESR10**

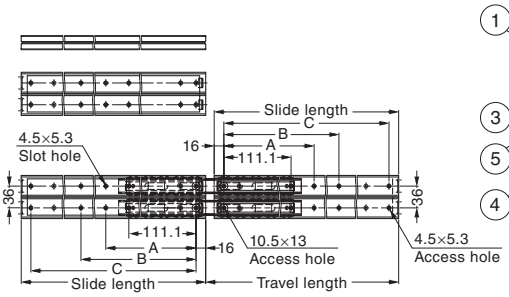


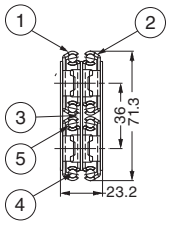
Features

- Full extension (3 members).
- Non-handed.
- Heavy duty.

Recommended Screws

M4





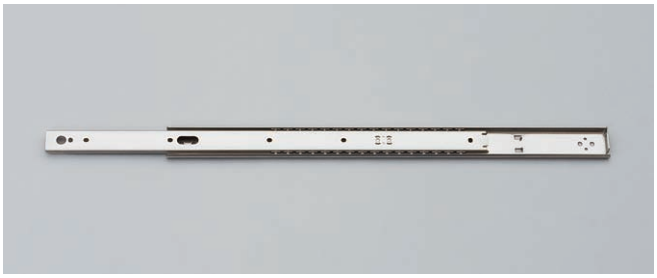
No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Satin
②	Inner Rail	Stainless Steel (SUS304)	Satin
③	Intermediate Member	Stainless Steel (SUS304)	Satin
④	Retainer	Stainless Steel (SUS304)	—
⑤	Balls	Stainless Steel (SUS304)	—

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-419	ESR10-12	305	319	—	149.2	273	2667 N/pair	272 kgf/pair	1.7 kg/pc	8 pcs
190-110-420	ESR10-14	355.8	369.8	—	200	323.8	2628 N/pair	268 kgf/pair	1.9 kg/pc	8 pcs
190-110-421	ESR10-16	406.6	420.6	—	250.8	374.6	2540 N/pair	259 kgf/pair	2.2 kg/pc	6 pcs
190-110-422	ESR10-18	457.4	471.4	212.7	301.6	425.4	2452 N/pair	250 kgf/pair	2.5 kg/pc	6 pcs
190-110-423	ESR10-20	508.2	522.2	238.1	352.4	476.2	2363 N/pair	241 kgf/pair	2.8 kg/pc	6 pcs
190-110-424	ESR10-22	559	573	263.5	403.2	527	2246 N/pair	229 kgf/pair	3.1 kg/pc	6 pcs
190-110-425	ESR10-24	609.8	623.8	288.9	454	577.8	2118 N/pair	216 kgf/pair	3.5 kg/pc	4 pcs
190-110-426	ESR10-26	660.6	674.6	314.3	504.8	628.6	1961 N/pair	200 kgf/pair	3.7 kg/pc	4 pcs
190-110-427	ESR10-28	711.4	725.4	339.7	555.6	679.4	1785 N/pair	182 kgf/pair	4 kg/pc	4 pcs

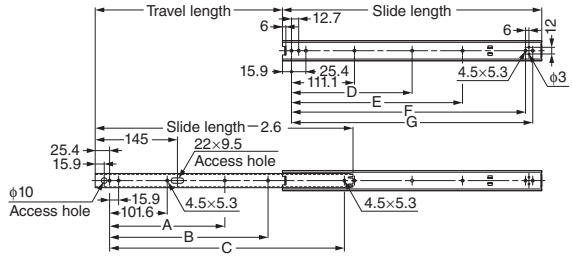
3/4 EXTENSION SLIDE

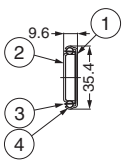
HOLD CLOSED L=R STAINLESS 304 STEEL **ESR13**



Features

- 3/4 extension slide (2 members).
- The drawer can be held in the fully closed position.
- Non-handed.





No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS304)	—

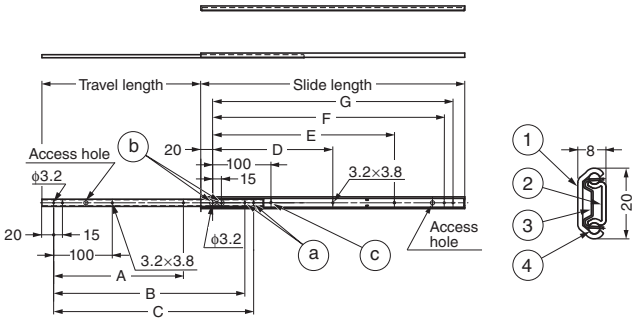
Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	Load Capacity N	Load Capacity kgf	Weight	Box
190-111-345	ESR13-12	304.8	228.6	—	177.8	258	—	149.2	260.3	273	481 N/pair	49 kgf/pair	0.33 kg/pc	30 pcs
190-111-346	ESR13-14	355.6	279.4	—	228.6	308.8	—	200	311.1	323.8	461 N/pair	47 kgf/pair	0.38 kg/pc	30 pcs
190-111-347	ESR13-16	406.4	304.8	—	254	359.6	—	250.8	361.9	374.6	422 N/pair	43 kgf/pair	0.42 kg/pc	30 pcs
190-111-348	ESR13-18	457.2	330.2	203.2	279.4	410.4	212.7	301.6	412.7	425.4	402 N/pair	41 kgf/pair	0.49 kg/pc	30 pcs
190-111-349	ESR13-20	508	381	228.6	330.2	461.2	238.1	352.4	463.5	476.2	363 N/pair	37 kgf/pair	0.54 kg/pc	30 pcs
190-111-350	ESR13-22	558.8	406.4	254	355.6	512	263.5	403.2	514.3	527	333 N/pair	34 kgf/pair	0.59 kg/pc	30 pcs
190-111-351	ESR13-24	609.6	431.8	254	381	562.8	288.9	454	565.1	577.8	294 N/pair	30 kgf/pair	0.63 kg/pc	30 pcs
190-111-352	ESR13-26	660.4	482.6	254	431.8	613.6	314.3	504.8	615.9	628.6	265 N/pair	27 kgf/pair	0.68 kg/pc	30 pcs
190-111-353	ESR13-28	711.2	508	279.4	457.2	664.4	339.7	555.6	666.7	679.4	245 N/pair	25 kgf/pair	0.75 kg/pc	30 pcs

3/4 EXTENSION SLIDE

L=R STAINLESS 304 STEEL **ESR2021**





■Features

- 3/4 extension slide (2 members).
- Non-handed.

■Recommended Screws

M3 screw with binding or truss head

No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS304)	–

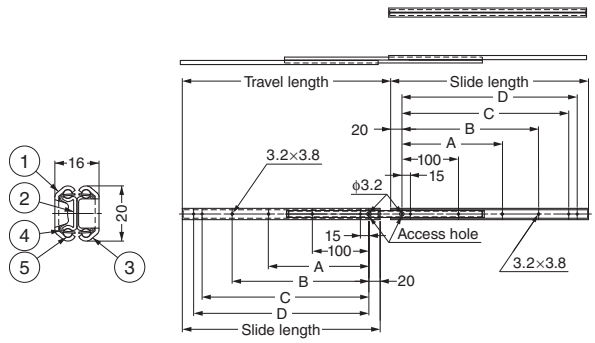
Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	Load Capacity N	Load Capacity kgf	Weight	Box
190-011-649	ESR2021-200	200	134	–	145	160	–	–	145	160	127 N/pair	13 kgf/pair	0.2 kg/pair	200 pcs
190-011-650	ESR2021-250	250	184	150	195	210	–	–	195	210	147 N/pair	15 kgf/pair	0.25 kg/pair	100 pcs
190-011-651	ESR2021-300	300	224	190	245	260	–	160	245	260	157 N/pair	16 kgf/pair	0.3 kg/pair	100 pcs
190-011-652	ESR2021-350	350	244	225	295	310	–	210	295	310	157 N/pair	16 kgf/pair	0.35 kg/pair	100 pcs
190-011-653	ESR2021-400	400	294	265	345	360	–	260	345	360	147 N/pair	15 kgf/pair	0.4 kg/pair	100 pcs
190-011-654	ESR2021-450	450	334	300	395	410	205	310	395	410	127 N/pair	13 kgf/pair	0.45 kg/pair	100 pcs
190-011-655	ESR2021-500	500	384	337	445	460	230	360	445	460	108 N/pair	11 kgf/pair	0.5 kg/pair	100 pcs

FULL EXTENSION SLIDE

L=R STAINLESS 304 STEEL **ESR2031**





■Features

- Full extension (3 members).
- Non-handed.

■Recommended Screws

M3 screw with binding or truss head

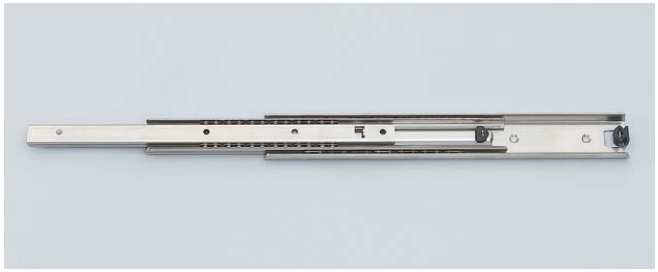
No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Intermediate Member	Stainless Steel (SUS304)	Plain
③	Inner Rail	Stainless Steel (SUS304)	Plain
④	Retainer	Stainless Steel (SUS304)	Plain
⑤	Balls	Stainless Steel (SUS304)	–

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	Load Capacity N	Load Capacity kgf	Weight	Box
190-011-656	ESR2031-200	200	229	–	–	145	160	167 N/pair	17 kgf/pair	0.4 kg/pair	96 pcs
190-011-657	ESR2031-250	250	269	–	–	195	210	167 N/pair	17 kgf/pair	0.5 kg/pair	48 pcs
190-011-658	ESR2031-300	300	329	–	160	245	260	167 N/pair	17 kgf/pair	0.6 kg/pair	48 pcs
190-011-659	ESR2031-350	350	369	–	210	295	310	167 N/pair	17 kgf/pair	0.7 kg/pair	48 pcs
190-011-660	ESR2031-400	400	429	–	260	345	360	167 N/pair	17 kgf/pair	0.8 kg/pair	48 pcs
190-011-661	ESR2031-450	450	469	205	310	395	410	157 N/pair	16 kgf/pair	0.9 kg/pair	48 pcs
190-011-662	ESR2031-500	500	529	230	360	445	460	127 N/pair	13 kgf/pair	1 kg/pair	48 pcs

FULL EXTENSION SLIDE

L=R STAINLESS 304 STEEL **5302S**



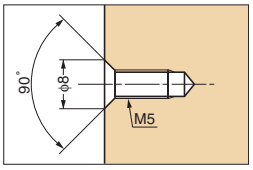
■Features

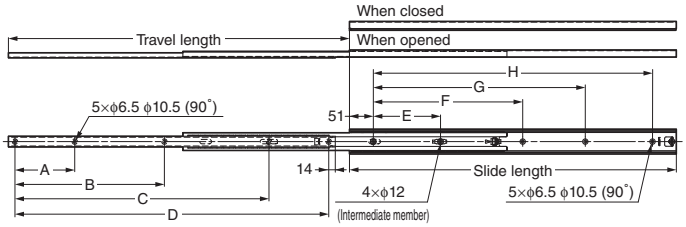
- Full extension (3 members).
- Non-handed.

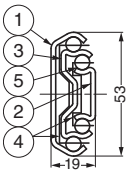
■Recommended Screws

M5 countersunk head screw

■Cut Out Dimensions







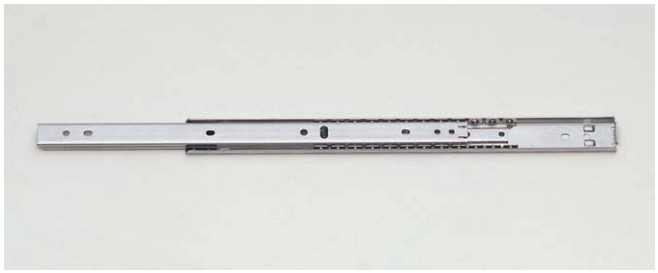
No.	Part Name	Material	Finish/Colour
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Intermediate Member	Stainless Steel (SUS304)	Plain
④	Retainer	Stainless Steel (SUS304)	Plain
⑤	Balls	Stainless Steel (SUS304)	–

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	Load Capacity N	Load Capacity kgf	Weight	Box
190-112-730	5302S-300	300	334	128	256	–	–	112	192	–	–	1137 N/pair	116 kgf/pair	0.86 kg/pc	20 pcs
190-112-731	5302S-350	350	384	160	320	–	–	144	240	–	–	1088 N/pair	111 kgf/pair	1 kg/pc	20 pcs
190-112-732	5302S-400	400	433	160	256	352	–	144	224	304	–	970 N/pair	99 kgf/pair	1.14 kg/pc	16 pcs
190-112-733	5302S-450	450	482	128	288	416	–	80	272	352	–	941 N/pair	96 kgf/pair	1.28 kg/pc	16 pcs
190-112-734	5302S-500	500	532	128	288	448	–	112	272	384	–	902 N/pair	92 kgf/pair	1.43 kg/pc	10 pcs
190-112-735	5302S-550	550	580	192	320	512	–	112	288	448	–	843 N/pair	86 kgf/pair	1.57 kg/pc	10 pcs
190-112-736	5302S-600	600	630	208	336	544	–	112	336	496	–	794 N/pair	81 kgf/pair	1.71 kg/pc	10 pcs
190-112-737	5302S-650	650	677	128	288	480	608	112	272	416	544	745 N/pair	76 kgf/pair	1.85 kg/pc	10 pcs
190-112-738	5302S-700	700	728	128	336	544	672	144	304	448	592	696 N/pair	71 kgf/pair	2 kg/pc	8 pcs
190-112-739	5302S-750	750	777	192	370	530	722	176	336	496	648	666 N/pair	68 kgf/pair	2.14 kg/pc	8 pcs
190-112-740	5302S-800	800	826	224	388	548	772	192	384	576	688	627 N/pair	64 kgf/pair	2.28 kg/pc	8 pcs

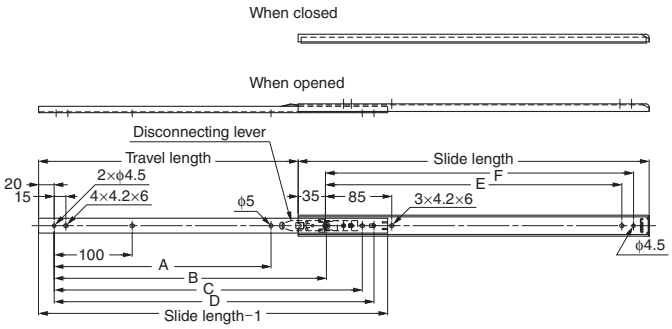
3/4 EXTENSION SLIDE

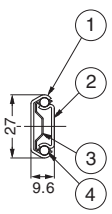
DETACH L=R STAINLESS 304 STEEL **272SL**



■Features

- 3/4 extension (2 members).
- The drawer is detachable by activating the lever.
- Non-handed.





No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS304)	–

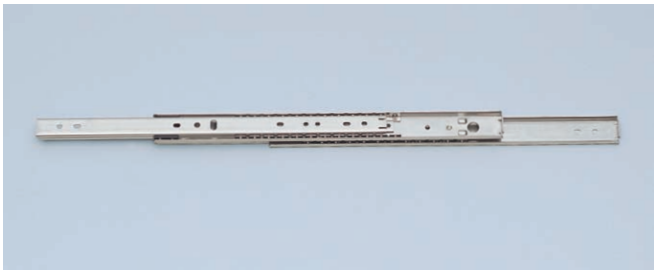
Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	Load Capacity N	Load Capacity kgf	Weight	Box
190-116-707	272SL-300	300	220	165	236	–	–	230	245	177 N/pair	18 kgf/pair	0.42 kg/pair	20 pairs
190-116-708	272SL-350	350	261	206	277	–	–	280	295	167 N/pair	17 kgf/pair	0.49 kg/pair	20 pairs
190-116-709	272SL-400	400	301	246	317	–	362.5	330	345	157 N/pair	16 kgf/pair	0.56 kg/pair	20 pairs
190-116-710	272SL-450	450	333	278	349	395	410	380	395	147 N/pair	15 kgf/pair	0.62 kg/pair	20 pairs
190-116-711	272SL-500	500	373	318	389	445	460	430	445	137 N/pair	14 kgf/pair	0.68 kg/pair	20 pairs

FULL EXTENSION SLIDE

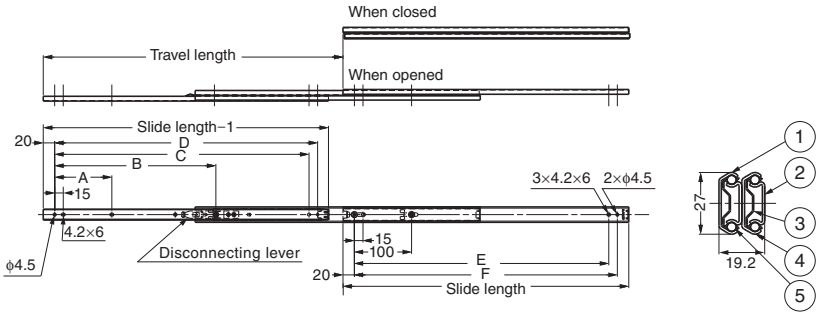
DETACH L=R STAINLESS 304 STEEL

273SL



■Features

- Full extension (3 members).
- The drawer is detachable by lifting the lever.
- Non-handed.



No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Intermediate Member	Stainless Steel (SUS304)	Plain
⑤	Balls	Stainless Steel (SUS304)	—

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	Load Capacity N	Load Capacity kgf	Weight	Box
190-116-712	273SL-200	200	221	—	135	—	—	145	160	177 N/pair	18 kgf/pair	0.55 kg/pair	10 pairs
190-116-713	273SL-250	250	280	—	143.5	195	210	195	210	167 N/pair	17 kgf/pair	0.68 kg/pair	10 pairs
190-116-714	273SL-300	300	327	100	188	245	260	245	260	157 N/pair	16 kgf/pair	0.82 kg/pair	10 pairs
190-116-715	273SL-350	350	376	100	211.5	295	310	295	310	147 N/pair	15 kgf/pair	0.96 kg/pair	10 pairs
190-116-716	273SL-400	400	426	100	236	345	360	345	360	137 N/pair	14 kgf/pair	1.09 kg/pair	10 pairs
190-116-717	273SL-450	450	478	100	261.5	395	410	395	410	128 N/pair	13 kgf/pair	1.24 kg/pair	10 pairs
190-116-718	273SL-500	500	524	100	282	445	460	445	460	118 N/pair	12 kgf/pair	1.35 kg/pair	10 pairs

3/4 EXTENSION SLIDE

L=R STAINLESS 304 STEEL

SNS27S

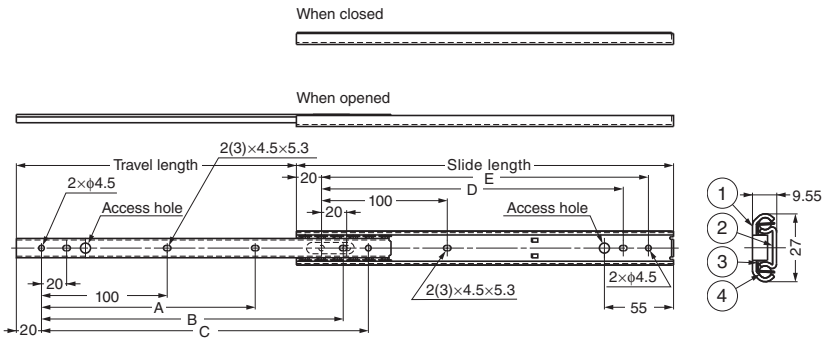


■Features

- 3/4 extension (2 members).
- All stainless steel slide.
- Non-handed.

■Recommended Screws

M4 pan head tapping screw



No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS440)	—

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-177	SNS27S-20	200	135	—	140	160	140	160	255 N/pair	26 kgf/pair	0.33 kg/pair	40 pcs
190-110-178	SNS27S-25	250	185	150	190	210	190	210	235 N/pair	24 kgf/pair	0.41 kg/pair	40 pcs
190-110-179	SNS27S-30	300	222	190	240	260	240	260	235 N/pair	24 kgf/pair	0.5 kg/pair	40 pcs
190-110-180	SNS27S-35	350	260	225	290	310	290	310	226 N/pair	23 kgf/pair	0.58 kg/pair	40 pcs
190-110-181	SNS27S-40	400	297	265	340	360	340	360	206 N/pair	21 kgf/pair	0.66 kg/pair	40 pcs
190-110-182	SNS27S-45	450	334	300	390	410	390	410	196 N/pair	20 kgf/pair	0.74 kg/pair	40 pcs
190-110-183	SNS27S-50	500	371	337	440	460	440	460	177 N/pair	18 kgf/pair	0.82 kg/pair	40 pcs

FULL EXTENSION SLIDE

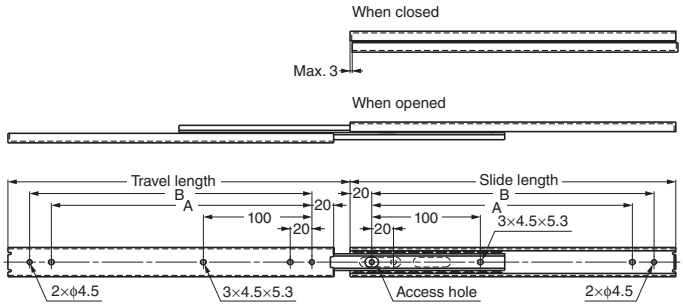
L=R STAINLESS 304 STEEL **SNS27D**

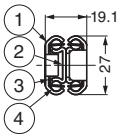


■**Features**
- Full extension (3 members).
- Non-handed.

■**Recommended Screws**

M4 pan head tapping screw





No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS440)	—

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-184	SNS27D-20	200	216.8	140	160	373 N/pair	38 kgf/pair	0.67 kg/pair	30 pcs
190-110-185	SNS27D-25	250	266	190	210	363 N/pair	37 kgf/pair	0.83 kg/pair	30 pcs
190-110-186	SNS27D-30	300	315.2	240	260	353 N/pair	36 kgf/pair	1 kg/pair	30 pcs
190-110-187	SNS27D-35	350	364.4	290	310	333 N/pair	34 kgf/pair	1.16 kg/pair	30 pcs
190-110-188	SNS27D-40	400	413.6	340	360	314 N/pair	32 kgf/pair	1.32 kg/pair	30 pcs
190-110-189	SNS27D-45	450	462.8	390	410	294 N/pair	30 kgf/pair	1.48 kg/pair	30 pcs
190-110-190	SNS27D-50	500	512	440	460	275 N/pair	28 kgf/pair	1.642 kg/pair	30 pcs

3/4 EXTENSION SLIDE

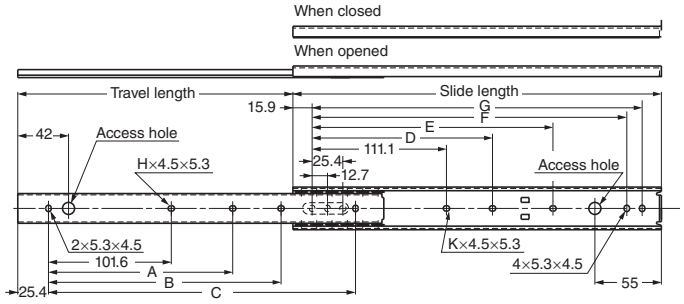
L=R STAINLESS 304 STEEL **SNS35S**

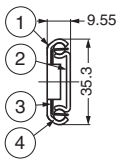


■**Features**
- 3/4 extension (2 members).
- Non-handed.

■**Recommended Screws**

M4 pan head tapping screw





No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS440)	—

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	K	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-191	SNS35S-30	304.8	228.6	—	152.4	254	—	149.2	260.3	273	2	3	481 N/pair	49 kgf/pair	0.62 kg/pair	40 pcs
190-110-192	SNS35S-35	355.6	279.4	—	203.2	304.8	—	200	311.1	323.8	2	3	461 N/pair	47 kgf/pair	0.72 kg/pair	40 pcs
190-110-193	SNS35S-40	406.4	304.8	—	254	355.6	—	250.8	361.9	374.6	2	3	422 N/pair	43 kgf/pair	0.82 kg/pair	40 pcs
190-110-194	SNS35S-45	457.2	330.2	203.2	304.8	406.4	212.7	301.6	412.7	425.4	3	4	402 N/pair	41 kgf/pair	0.92 kg/pair	40 pcs
190-110-195	SNS35S-50	508	381	228.6	355.6	457.2	238.1	352.4	463.5	476.2	3	4	363 N/pair	37 kgf/pair	1.02 kg/pair	40 pcs
190-110-196	SNS35S-55	558.8	406.4	254	406.4	508	263.5	403.2	514.3	527	3	4	333 N/pair	34 kgf/pair	1.12 kg/pair	40 pcs
190-110-197	SNS35S-60	609.6	431.8	279.4	457.2	558.8	288.9	454	565.1	577.8	3	4	294 N/pair	30 kgf/pair	1.22 kg/pair	40 pcs
190-110-198	SNS35S-65	660.4	482.6	304.8	508	609.6	314.3	504.8	615.9	628.6	3	4	265 N/pair	27 kgf/pair	1.32 kg/pair	40 pcs
190-110-199	SNS35S-70	711.2	508	330.2	558.8	660.4	339.7	555.6	666.7	679.4	3	4	245 N/pair	25 kgf/pair	1.42 kg/pair	40 pcs

FULL EXTENSION SLIDE

L=R STAINLESS 304 STEEL

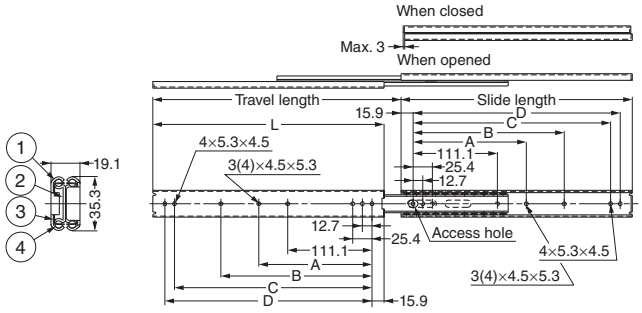
SNS35D



■Features
- Full extension (3 members).
- Non-handed.

■Recommended Screws

M4 pan head tapping screw



No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS440)	–

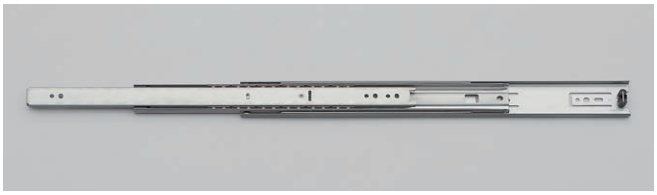
Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-200	SNS35D-30	304.8	327.2	–	149.2	260.3	273	588 N/pair	60 kgf/pair	1.24 kg/pair	20 pcs
190-110-201	SNS35D-35	355.6	377.9	–	200	311.1	323.8	579 N/pair	59 kgf/pair	1.44 kg/pair	20 pcs
190-110-202	SNS35D-40	406.4	428.7	–	250.8	361.9	374.6	559 N/pair	57 kgf/pair	1.64 kg/pair	20 pcs
190-110-203	SNS35D-45	457.2	479.5	212.7	301.6	412.7	425.4	549 N/pair	56 kgf/pair	1.84 kg/pair	20 pcs
190-110-204	SNS35D-50	508	530.3	238.1	352.4	463.5	476.2	530 N/pair	54 kgf/pair	2.05 kg/pair	20 pcs
190-110-205	SNS35D-55	558.8	580.3	263.5	403.2	514.3	527	500 N/pair	51 kgf/pair	2.25 kg/pair	20 pcs
190-110-206	SNS35D-60	609.6	631.9	288.9	454	565.1	577.8	481 N/pair	49 kgf/pair	2.45 kg/pair	20 pcs
190-110-207	SNS35D-65	660.4	682.7	314.3	504.8	615.9	628.6	461 N/pair	47 kgf/pair	2.65 kg/pair	20 pcs
190-110-208	SNS35D-70	711.2	733.5	339.7	555.6	666.7	679.4	441 N/pair	45 kgf/pair	2.85 kg/pair	20 pcs

FULL EXTENSION SLIDE

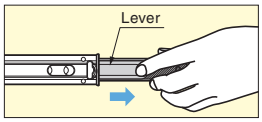
BUMPER DETACH HOLD CLOSED L=R STAINLESS 304 STEEL

ESR4658

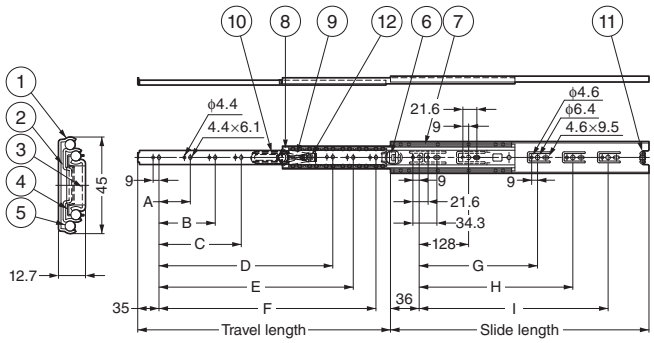


■Features
- Full extension (3 members).
- With a bumper to avoid metal-to-metal noise at the end of the course.
- The drawer is detachable by lifting the lever.
- Non-handed.

■Easy to Detach



■Recommended Screws
- For wood: M4 tapping screw
- For steel: M4 screw



No.	Part Name	Material	Finish/Colour
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Intermediate Member	Stainless Steel (SUS304)	Plain
③	Inner Rail	Stainless Steel (SUS304)	Plain
④	Retainer	Stainless Steel (SUS304)	Plain
⑤	Balls	Stainless Steel (SUS304)	–
⑥	Rubbing Prevention Bumper	Polypropylene (PP)	Natural
⑦	Retainer	Polyethylene (PE)	Grey
⑧	Guide Block	Polyamide (PA)	Black
⑨	Lever 1	Polyacetal (POM)	Black
⑩	Lever 2	Polyethylene (PE)	Black
⑪	Closing Catch Bumper	Polyurethane (PUR)	Black
⑫	Rivet	Stainless Steel (SUS302)	–

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	I	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-706	ESR4658-14	350	356	–	–	–	–	–	292	224	–	–	490 N/pair	50 kgf/pair	0.99 kg/pair	20 pairs
190-110-707	ESR4658-16	400	406	–	–	320	–	–	342	224	320	–	470 N/pair	48 kgf/pair	1.13 kg/pair	20 pairs
190-110-708	ESR4658-18	450	457	128	–	320	–	–	392	224	352	–	441 N/pair	45 kgf/pair	1.28 kg/pair	10 pairs
190-110-709	ESR4658-20	500	508	128	–	352	–	–	442	224	416	–	421 N/pair	43 kgf/pair	1.42 kg/pair	10 pairs
190-110-710	ESR4658-22	550	559	128	–	–	416	–	492	224	352	448	402 N/pair	41 kgf/pair	1.57 kg/pair	10 pairs
190-110-711	ESR4658-24	600	610	128	–	–	416	–	542	224	352	480	382 N/pair	39 kgf/pair	1.71 kg/pair	10 pairs
190-110-712	ESR4658-26	650	660	128	224	–	416	544	592	224	352	544	353 N/pair	36 kgf/pair	1.86 kg/pair	10 pairs
190-110-713	ESR4658-28	700	711	128	224	–	448	544	642	224	352	544	314 N/pair	32 kgf/pair	2 kg/pair	10 pairs

PUSH-TO-OPEN SLIDE (UNDER MOUNT)

DETACH HOLD CLOSED STEEL **2150**



■Features

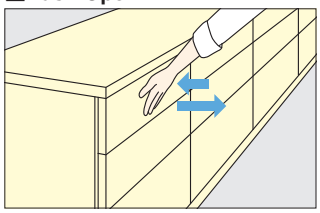
- Under carriage mounting with bracket: Ideal for drawer with limited space.
- Full extension (3 members).
- No handle or knobs required for a sleek, modern look.
- The drawer is detachable by lifting the lever.
- The drawer can be held in the fully closed position.

■Parts Included

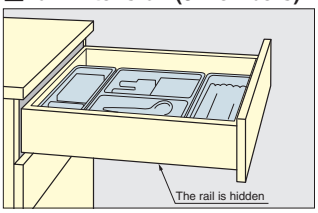
Countersunk head tapping screw 4x15, 3x6

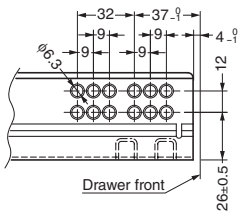


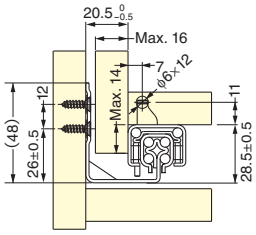
■Push Open

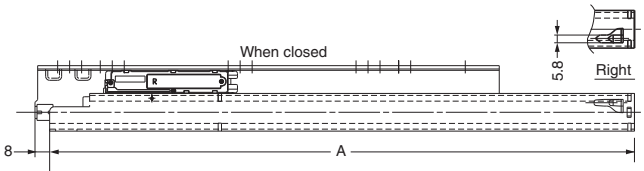


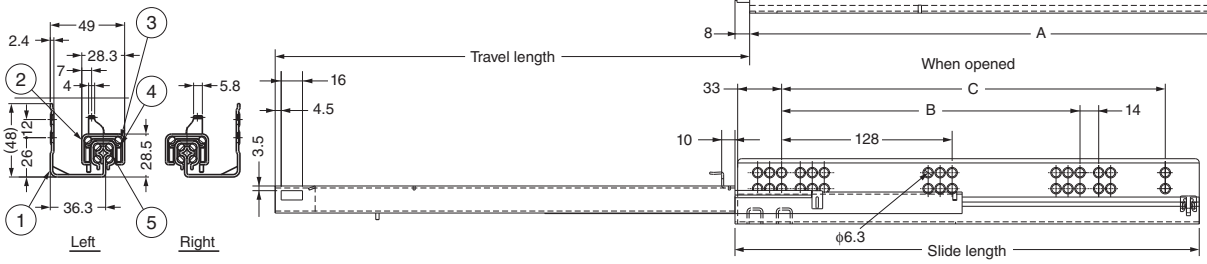
■Full Extension (3 Members)

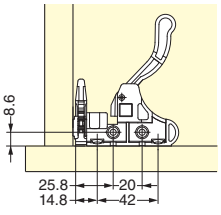


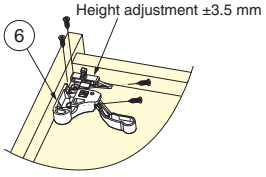


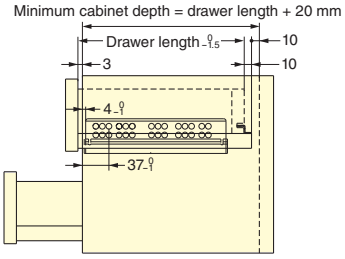


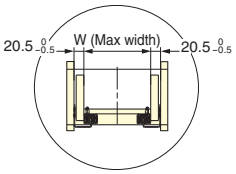












No.	Part Name	Material	Finish
①	Outer Member	Steel	–
②	Inner Member	Steel	–
③	Pole	Steel	–
④	Retainer (Outside)	Polyacetal (POM)	–
⑤	Retainer (Inside)	Polyethylene (PE)	–
⑥	Clip	Polyamide (PA)	–

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	Drawer Length	Minimum Cabinet Length	W	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-655	2150-270	181.5	266	255	–	–	260	280	470	196 N/pair	20 kgf/pair	1.5 kgf/pair	6 pairs
190-110-656	2150-300	206.5	296	285	–	–	290	310	500	294 N/pair	30 kgf/pair	1.6 kgf/pair	6 pairs
190-110-657	2150-350	241.5	346	335	–	–	340	360	550	294 N/pair	30 kgf/pair	1.9 kgf/pair	6 pairs
190-110-658	2150-400	276.5	396	385	224	–	390	410	600	343 N/pair	35 kgf/pair	2.1 kgf/pair	6 pairs
190-110-659	2150-450	311.5	446	435	224	–	440	460	650	392 N/pair	40 kgf/pair	2.4 kgf/pair	6 pairs
190-110-660	2150-500	356.5	496	485	224	–	490	510	700	343 N/pair	35 kgf/pair	2.6 kgf/pair	6 pairs
190-110-661	2150-550	391.5	546	535	224	–	540	560	750	343 N/pair	35 kgf/pair	2.9 kgf/pair	6 pairs
190-110-662	2150-600	416.5	596	585	224	288	590	610	800	294 N/pair	30 kgf/pair	3.1 kgf/pair	6 pairs

PUSH-TO-OPEN SLIDE

BUMPER DETACH L=R STEEL **3660**



■Features

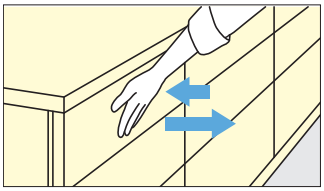
- Push-to-open mechanism.
- No handle or knobs required for a sleek, modern look.
- With a bumper to avoid metal-to-metal noise at the end of the course.
- The drawer is detachable by lifting the lever.
- Heavy duty type: 4660 series are also available (P.582).

■Parts Included

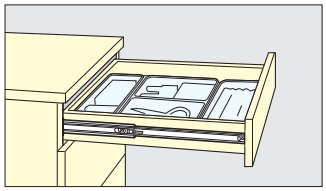
- Truss head tapping screw 4x12
- Hex key



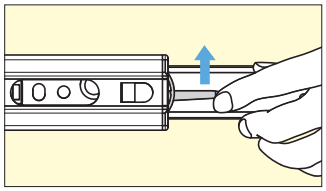
■Push to Open

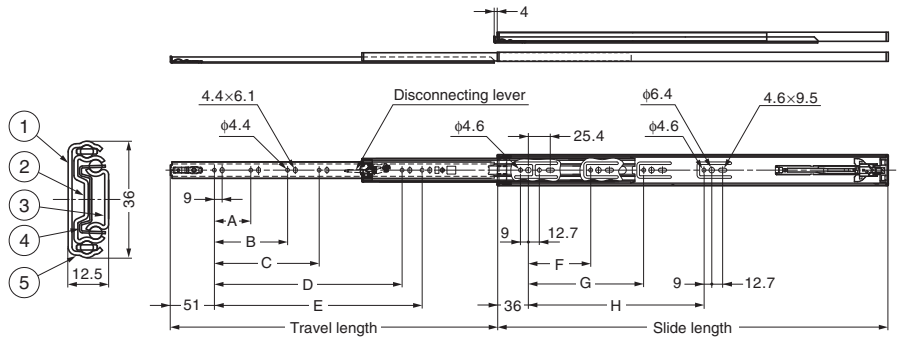


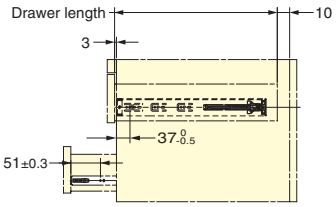
■Full Extension (3 Members)

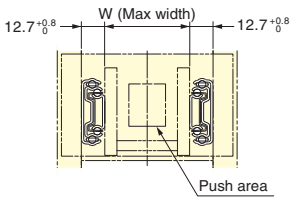


■Easy to Detach

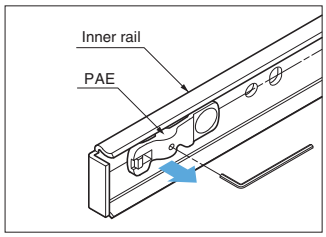








■Adjustment for the Installation Dimensions 12.7 mm



No.	Part Name	Material	Finish/Colour
①	Outer Member	Steel	Clear Zinc Chromate
②	Intermediate Member	Steel	Clear Zinc Chromate
③	Inner Member	Steel	Clear Zinc Chromate
④	Retainer	Steel	(Zinc Chromate Steel)
⑤	Balls	Steel	—

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	W	Load Capacity N	Load Capacity kgf	Weight	Box
190-027-551	3660-250	250	250	—	—	—	—	121	87	—	—	450	147 N/pair	15 kgf/pair	0.61 kg/pair	20 pairs
190-027-552	3660-300	300	300	71	—	—	—	171	119	—	—	500	147 N/pair	15 kgf/pair	0.73 kg/pair	20 pairs
190-027-553	3660-350	350	350	103	—	—	—	221	119	183	—	550	147 N/pair	15 kgf/pair	0.84 kg/pair	10 pairs
190-027-554	3660-400	400	400	103	231	—	—	271	119	199	—	600	196 N/pair	20 kgf/pair	0.97 kg/pair	10 pairs
190-027-555	3660-450	450	450	103	263	—	—	321	119	247	—	650	196 N/pair	20 kgf/pair	1.09 kg/pair	10 pairs
190-027-556	3660-500	500	500	103	167	295	—	371	119	215	295	700	196 N/pair	20 kgf/pair	1.21 kg/pair	10 pairs
190-027-557	3660-550	550	550	103	199	327	—	421	119	215	345	750	196 N/pair	20 kgf/pair	1.33 kg/pair	10 pairs
190-027-558	3660-600	600	600	103	199	327	391	471	119	247	375	800	196 N/pair	20 kgf/pair	1.55 kg/pair	10 pairs

PUSH-TO-OPEN SLIDE

BUMPER DETACH L=R STEEL **4660**



■Features

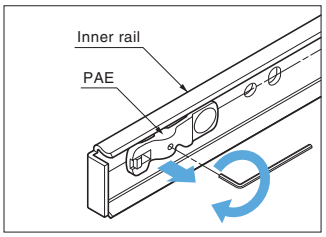
- Push-to-open mechanism.
- No handle or knobs required for a sleek, modern look.
- With a bumper to avoid metal-to-metal noise at the end of the course.
- The drawer is detachable by lifting the lever.
- Light-weight type: 3660 is also available (36 mm wide/15-20 kgf). P.581.

■Parts Included

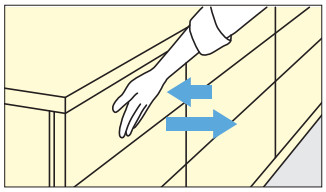
- Truss head tapping screw 4x12
- Hex key



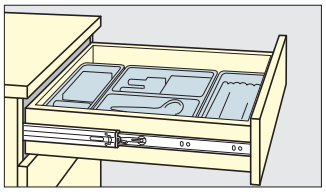
■Adjustment for the Installation Dimensions 12.7 mm



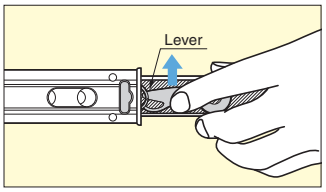
■Push to Open

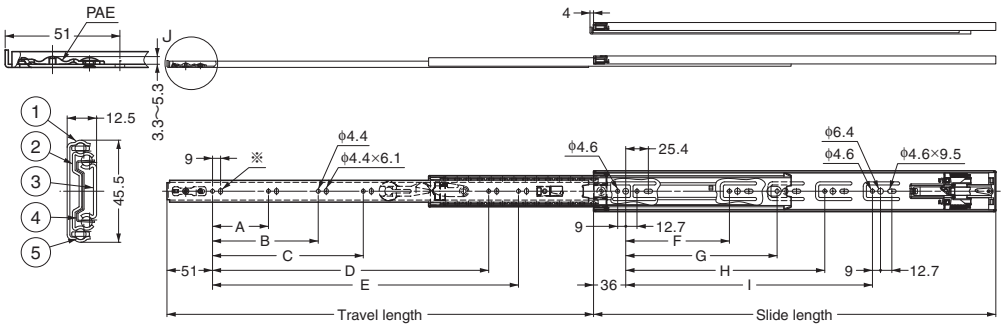


■Full Extension (3 Members)



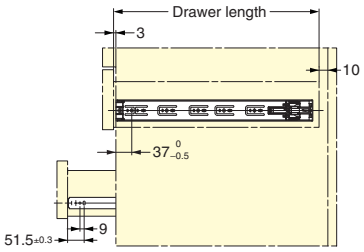
■Easy to Detach

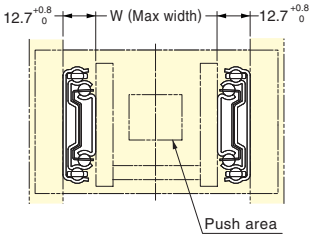




Minimum cabinet depth = drawer length + 10 mm

※No hole on the 250 mm type.





No.	Part Name	Material	Finish
①	Outer Rail	Steel	Clear Zinc Chromate
②	Intermediate Member	Steel	Clear Zinc Chromate
③	Inner Rail	Steel	Clear Zinc Chromate
④	Retainer	Steel	(Zinc Chromate Steel)
⑤	Balls	Steel	—

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	I	W	Load Capacity N	Load Capacity kgf	Weight	Box
190-021-275	4660-250	250	200	—	—	—	117	—	87	—	—	—	450	147 N/pair	15 kgf/pair	0.76 kg/pair	10 pairs
190-021-276	4660-300	300	296	—	—	—	167	—	119	—	—	—	500	196 N/pair	20 kgf/pair	0.90 kg/pair	10 pairs
190-021-277	4660-350	350	348	71	—	—	217	—	119	183	—	—	550	245 N/pair	25 kgf/pair	1.02 kg/pair	10 pairs
190-021-278	4660-400	400	406	103	—	—	267	—	119	215	—	—	600	294 N/pair	30 kgf/pair	1.19 kg/pair	10 pairs
190-021-279	4660-450	450	458	71	135	—	317	—	119	279	—	—	650	343 N/pair	35 kgf/pair	1.35 kg/pair	10 pairs
190-021-280	4660-500	500	509	71	135	—	327	367	119	215	335	—	700	392 N/pair	40 kgf/pair	1.49 kg/pair	10 pairs
190-021-281	4660-550	550	560	103	167	—	359	417	119	215	343	—	750	441 N/pair	45 kgf/pair	1.65 kg/pair	6 pairs
190-021-282	4660-600	600	611	103	199	—	391	467	119	215	343	439	800	343 N/pair	35 kgf/pair	1.81 kg/pair	6 pairs
190-021-283	4660-650	650	661	103	199	—	441	517	119	215	343	471	850	343 N/pair	35 kgf/pair	1.95 kg/pair	6 pairs
190-021-284	4660-700	700	712	103	199	263	491	567	119	215	343	535	900	343 N/pair	35 kgf/pair	2.10 kg/pair	6 pairs

PUSH-TO-OPEN SLIDE (UNDER MOUNT)

DETACH

4061





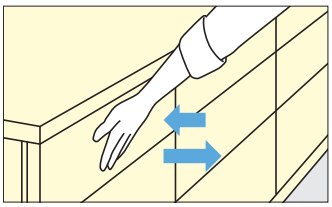
■Features

- Push-to-open mechanism.
- No handle or knobs required for a sleek, modern look.
- The drawer is detachable by lifting the lever.
- Full extension (3 members).

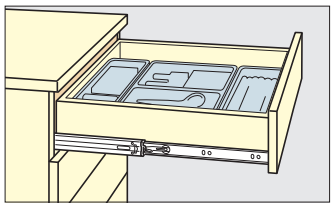
■Recommended Screws

M4 truss head tapping screw

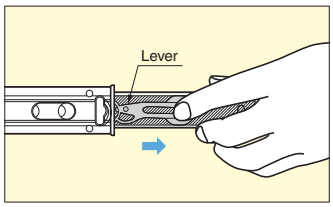
■Push to Open

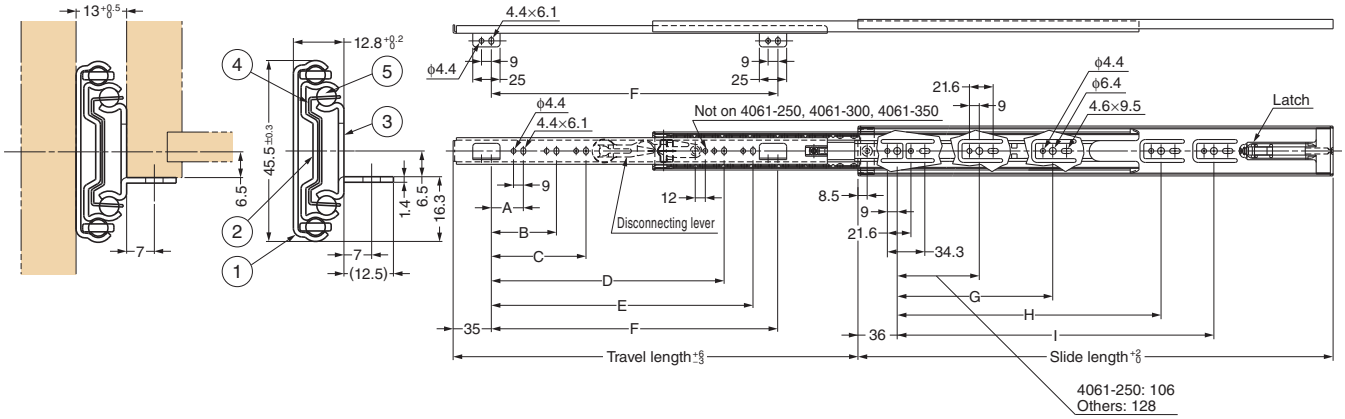


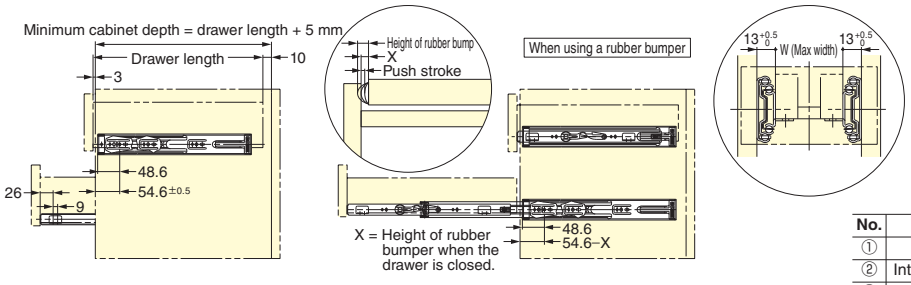
■Full Extension (3 Members)



■Easy to Detach







No.	Part Name	Material	Finish
①	Outer Rail	Steel	Clear Zinc Chromate
②	Intermediate Member	Steel	Clear Zinc Chromate
③	Inner Rail	Steel	Clear Zinc Chromate
④	Retainer	Steel	(Zinc Chromate Steel)
⑤	Balls	Steel	—

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	I	W	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-889	※1 4061-250	250	238	32	—	—	—	—	156	—	—	106	450	196 N/pair	20 kgf/pair	0.67 kg/pair	10 pairs
190-110-890	※1 4061-300	300	305	64	—	—	—	—	200	—	—	128	500	245 N/pair	25 kgf/pair	0.82 kg/pair	10 pairs
190-110-891	※1 4061-350	350	356	96	—	—	—	—	250	192	—	192	550	343 N/pair	35 kgf/pair	0.97 kg/pair	10 pairs
190-110-892	※1 4061-400	400	406	128	—	—	—	—	294	224	—	224	600	392 N/pair	40 kgf/pair	1.13 kg/pair	10 pairs
190-110-893	※1 4061-450	450	457	96	160	—	—	—	344	288	—	288	650	441 N/pair	45 kgf/pair	1.28 kg/pair	10 pairs
190-110-894	※2 4061-500	500	508	96	160	352	—	—	394	224	—	352	700	441 N/pair	45 kgf/pair	1.42 kg/pair	10 pairs
190-110-895	※2 4061-550	550	559	128	192	384	—	—	444	224	—	352	750	392 N/pair	40 kgf/pair	—	10 pairs
190-110-896	※2 4061-600	600	610	128	224	416	—	—	494	224	352	448	800	392 N/pair	40 kgf/pair	—	10 pairs
190-110-897	※2 4061-650	650	660	128	224	416	480	—	544	224	352	480	850	343 N/pair	35 kgf/pair	—	10 pairs
190-110-898	※2 4061-700	700	711	128	224	288	480	544	594	224	352	544	900	343 N/pair	35 kgf/pair	—	10 pairs

※1 Made to order.

※2 Minimum order quantity is 500 pairs.

PUSH-TO-OPEN SLIDE

DETACH | HOLD OPENED | L=R | 4638



■Features

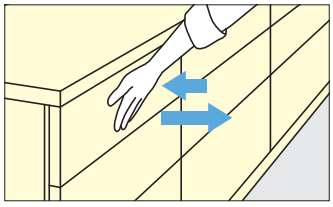
- Push-to-open mechanism.
- No handle or knobs required for a sleek, modern look.
- The drawer is detachable by lifting the lever.
- The drawer can be held in the fully opened position.
- Full extension (3 members).

■Recommended Screws

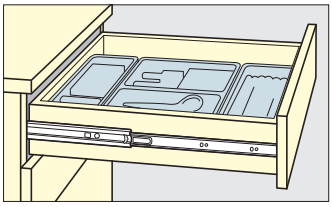
M4 round head screw, M4 bind head screw, M4 truss head screw



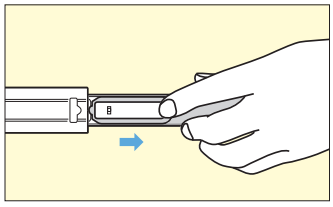
■Push Open

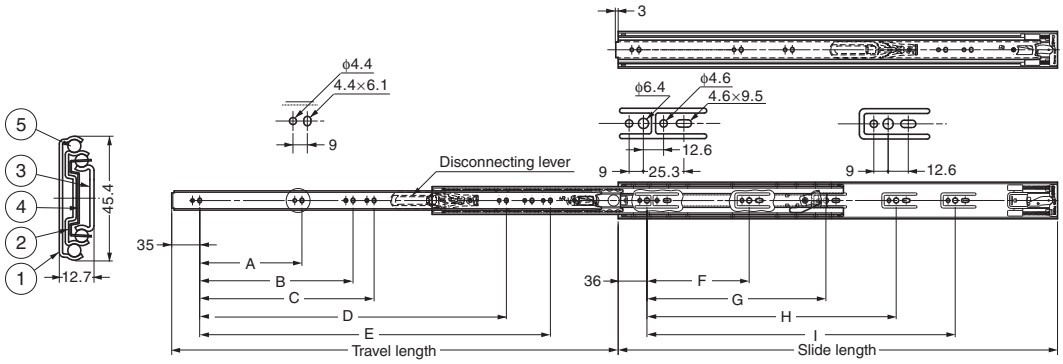


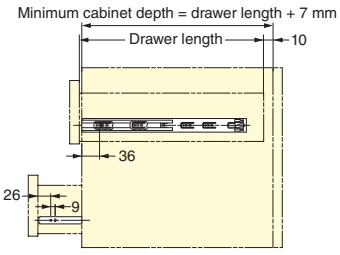
■Full Extension (3 Members)

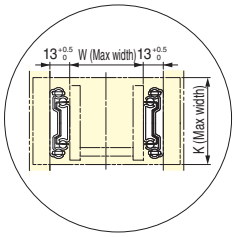


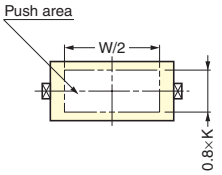
■Easy to Detach











No.	Part Name	Material	Finish
①	Outer Rail	Steel	Clear Zinc Chromate
②	Intermediate Member	Steel	Clear Zinc Chromate
③	Inner Rail	Steel	Clear Zinc Chromate
④	Retainer	Steel	Clear Zinc Chromate
⑤	Balls	Steel	–

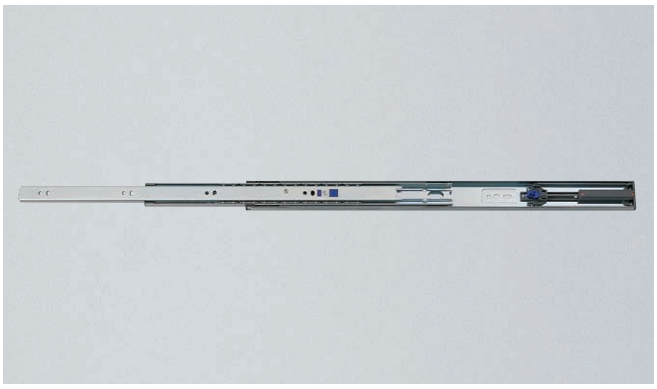
Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	I	Max. Drawer Length W	Max. Drawer Length K	Load Capacity N	Load Capacity kgf	Weight	Box
190-012-468	4638-14	350	356	–	–	–	–	224	128	–	–	224	550	215	441 N/pair	45 kgf/pair	0.96 kg/pair	20 pairs
190-012-469	4638-16	400	406	–	–	–	–	288	–	256	–	–	600	250	422 N/pair	43 kgf/pair	1.12 kg/pair	20 pairs
190-012-470	4638-18	450	457	128	–	–	–	320	–	224	320	–	650	280	392 N/pair	40 kgf/pair	1.27 kg/pair	10 pairs
190-012-471	4638-20	500	508	128	–	–	–	384	–	224	352	–	700	310	373 N/pair	38 kgf/pair	1.42 kg/pair	10 pairs
190-012-472	4638-22	550	559	128	–	–	192	416	128	224	320	416	750	340	353 N/pair	36 kgf/pair	1.57 kg/pair	10 pairs
190-012-473	4638-24	600	610	128	224	–	416	480	128	–	352	448	800	375	330 N/pair	34 kgf/pair	1.72 kg/pair	10 pairs
190-012-474	4638-26	650	660	128	224	–	416	512	128	–	352	512	850	405	304 N/pair	31 kgf/pair	1.86 kg/pair	10 pairs
190-012-475	4638-28	700	711	128	224	448	512	576	128	–	352	544	900	435	265 N/pair	27 kgf/pair	2.02 kg/pair	10 pairs

FULL EXTENSION SOFT-CLOSE SLIDE

BUMPER DETACH CATCH L=R STEEL

3670



■Features

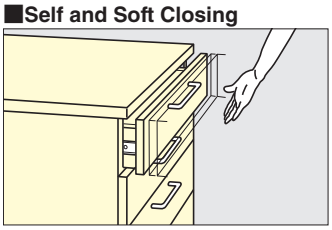
- Smooth and elegant soft-closing mechanism.
- With a bumper to avoid metal-to-metal noise at the end of the course.
- The drawer is detachable by lifting the lever.
- Self-closes at 20 mm distance from closed position (250-350 mm slide) and at 36 mm distance from closed position (400-600 mm slide).
- Heavy duty type: 4670 series are also available (P.586 & P.587).

■Parts Included

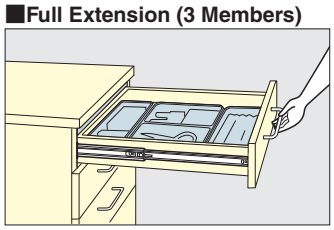
Truss head tapping screw 4x12



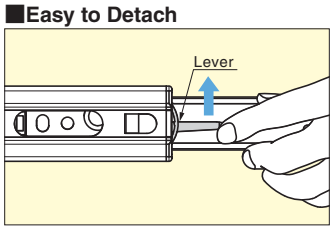
■Self and Soft Closing

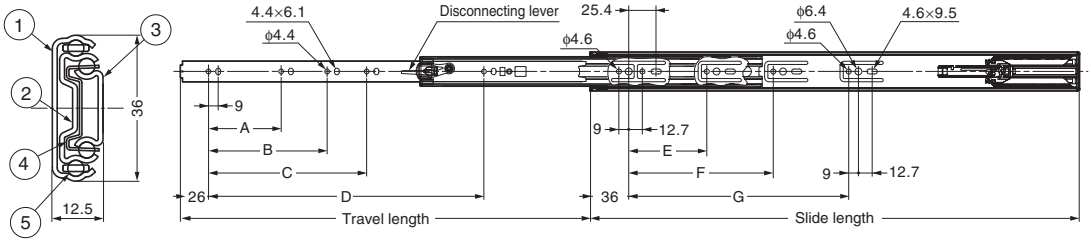


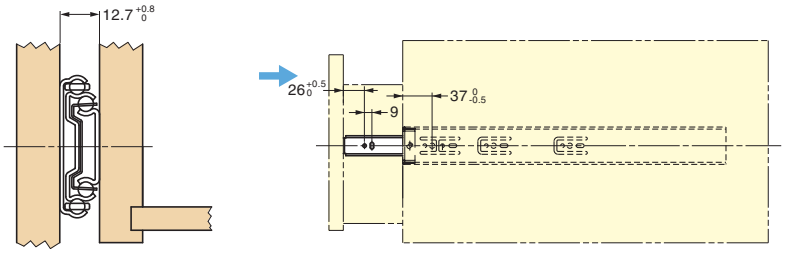
■Full Extension (3 Members)



■Easy to Detach







No.	Part Name	Material	Finish/Colour
①	Outer Member	Steel	Clear Zinc Chromate
②	Intermediate Member	Steel	Clear Zinc Chromate
③	Inner Member	Steel	Clear Zinc Chromate
④	Retainer	Steel	(Zinc Chromate Steel)
⑤	Balls	Steel	–

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	Load Capacity N	Load Capacity kgf	Weight	Box
190-027-543	3670-250	250	200	124	–	–	–	87	–	–	147 N/pair	15 kgf/pair	0.60 kg/pair	20 pairs
190-027-544	3670-300	300	300	174	–	–	–	119	–	–	147 N/pair	15 kgf/pair	0.70 kg/pair	20 pairs
190-027-545	3670-350	350	350	96	224	–	–	119	183	–	147 N/pair	15 kgf/pair	0.81 kg/pair	10 pairs
190-027-546	3670-400	400	400	160	256	–	–	119	199	–	196 N/pair	20 kgf/pair	0.93 kg/pair	10 pairs
190-027-547	3670-450	450	450	96	192	306	–	119	247	–	196 N/pair	20 kgf/pair	1.05 kg/pair	10 pairs
190-027-548	3670-500	500	500	128	224	356	–	119	215	295	196 N/pair	20 kgf/pair	1.16 kg/pair	10 pairs
190-027-549	3670-550	550	550	128	224	352	406	119	215	343	196 N/pair	20 kgf/pair	1.29 kg/pair	10 pairs
190-027-550	3670-600	600	600	128	224	384	456	119	247	375	196 N/pair	20 kgf/pair	1.41 kg/pair	10 pairs

FULL EXTENSION SOFT-CLOSE SLIDE

BUMPER DETACH CATCH L=R STEEL

4670



■Features

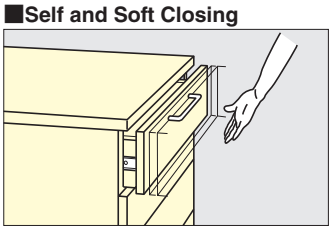
- Self and soft closing slide.
- Full extension (3 members).
- With a bumper to avoid metal-to-metal noise at the end of the course.
- The drawer is detachable by lifting the lever.
- Self-closes at 20 mm distance from closed position (250-350 mm slide) and at 36 mm distance from closed position (400-600 mm slide).

■Parts Included

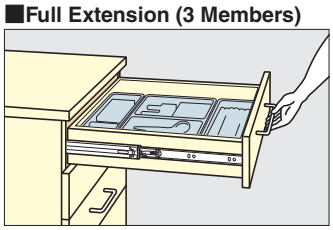
Truss head tapping screw 4x12



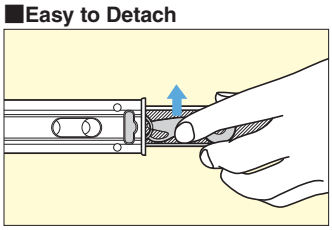
■Self and Soft Closing

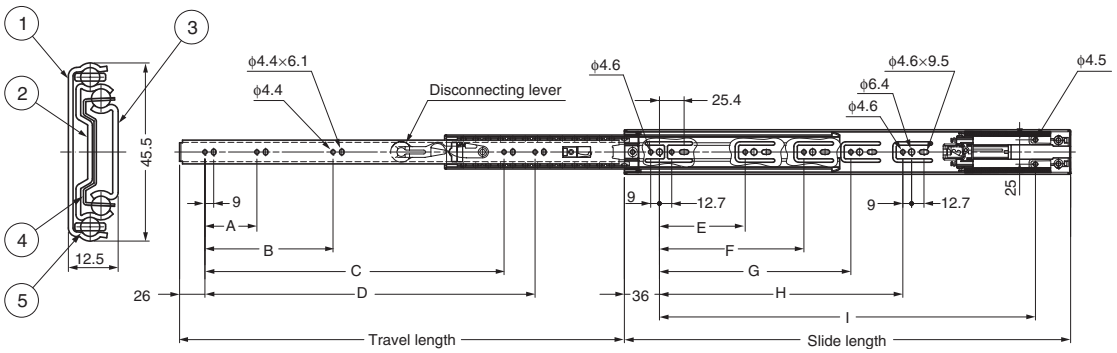


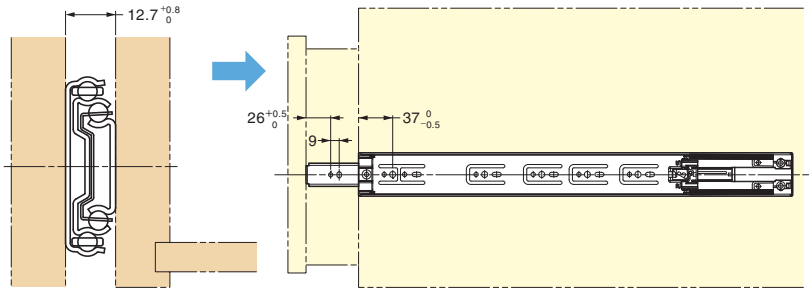
■Full Extension (3 Members)



■Easy to Detach







No.	Part Name	Material	Finish/Colour
①	Outer Rail	Steel	Clear Zinc Chromate
②	Intermediate Member	Steel	Clear Zinc Chromate
③	Inner Rail	Steel	Clear Zinc Chromate
④	Retainer	Steel	(Zinc Chromate Steel)
⑤	Balls	Steel	—

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	I	Load Capacity N	Load Capacity kgf	Weight	Box
190-021-265	4670-250	250	175	—	—	124	—	87	—	—	—	179	147 N/pair	15 kgf/pair	0.72 kg/pair	10 pairs
190-021-266	4670-300	300	275	—	—	174	—	119	—	—	—	229	196 N/pair	20 kgf/pair	0.88 kg/pair	10 pairs
190-021-267	4670-350	350	353	96	—	224	—	119	183	—	—	279	245 N/pair	25 kgf/pair	1.02 kg/pair	10 pairs
190-021-268	4670-400	400	404	96	—	254	—	119	199	—	—	329	245 N/pair	25 kgf/pair	1.17 kg/pair	10 pairs
190-021-269	4670-450	450	455	128	—	294	—	119	247	—	—	379	294 N/pair	30 kgf/pair	1.31 kg/pair	10 pairs
190-021-270	4670-500	500	505	96	160	344	—	119	295	—	—	429	343 N/pair	35 kgf/pair	1.48 kg/pair	10 pairs
190-021-271	4670-550	550	556	96	160	394	—	119	215	343	—	479	392 N/pair	40 kgf/pair	1.62 kg/pair	6 pairs
190-021-272	4670-600	600	606	128	192	444	—	119	215	343	—	529	294 N/pair	30 kgf/pair	1.77 kg/pair	6 pairs
190-021-273	4670-650	650	653	128	224	416	494	119	215	343	439	579	294 N/pair	30 kgf/pair	1.94 kg/pair	6 pairs
190-021-274	4670-700	700	704	128	224	480	544	119	215	343	487	629	294 N/pair	30 kgf/pair	2.10 kg/pair	6 pairs

FULL EXTENSION SOFT-CLOSE SLIDE

BUMPER DETACH CATCH L=R STEEL

4670BL



■Features

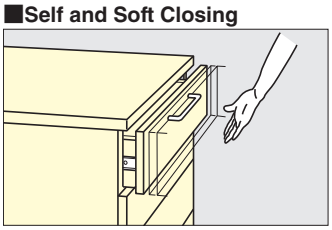
- Self and soft closing slide.
- Full extension (3 members).
- With a bumper to avoid metal-to-metal noise at the end of the course.
- The drawer is detachable by lifting the lever.
- Self-closes at 20 mm distance from closed position (250-350 mm slide) and at 36 mm distance from closed position (400-600 mm slide).

■Parts Included

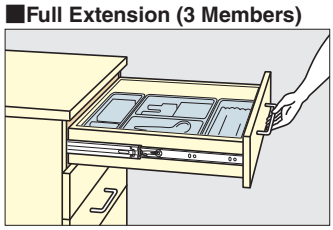
Truss head tapping screw 4x12 (black finish)



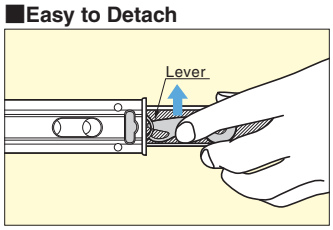
■Self and Soft Closing

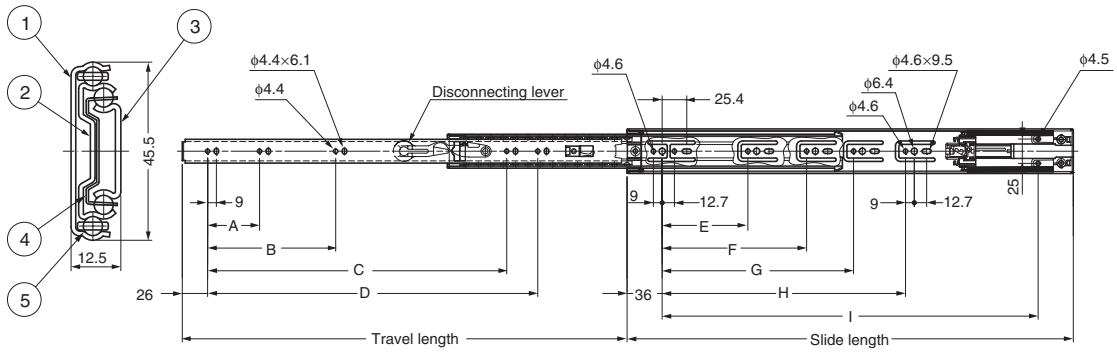


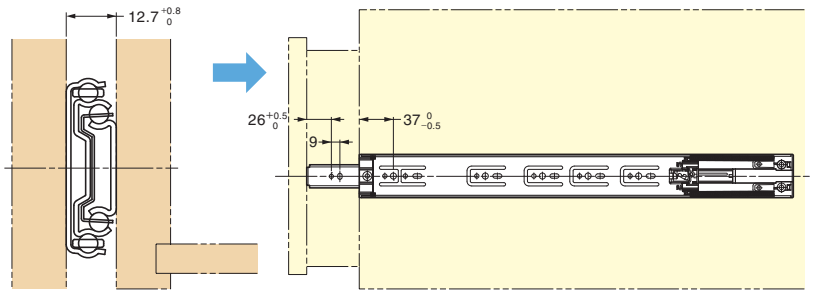
■Full Extension (3 Members)



■Easy to Detach







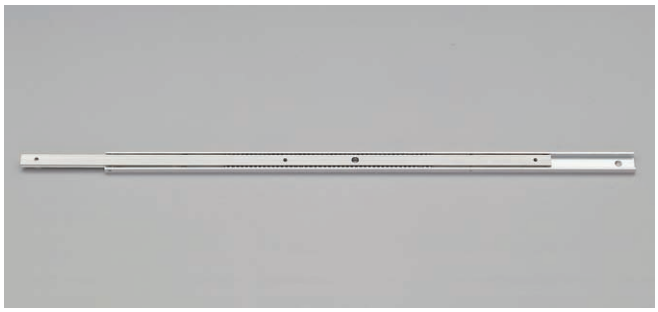
No.	Part Name	Material	Finish/Colour
①	Outer Rail	Steel	Black Zinc Chromate
②	Intermediate Member	Steel	Black Zinc Chromate
③	Inner Rail	Steel	Black Zinc Chromate
④	Retainer	Steel	(Zinc Chromate Steel)
⑤	Balls	Steel	—

Sold in pairs (2 pcs).

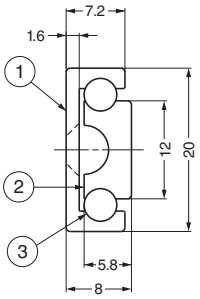
Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	I	Load Capacity N	Load Capacity kgf	Weight	Box
190-028-947	4670-250BL	250	175	—	—	124	—	87	—	—	—	179	147 N/pair	15 kgf/pair	0.72 kg/pair	10 pairs
190-028-948	4670-300BL	300	275	—	—	174	—	119	—	—	—	229	196 N/pair	20 kgf/pair	0.88 kg/pair	10 pairs
190-028-949	4670-350BL	350	353	96	—	224	—	119	183	—	—	279	245 N/pair	25 kgf/pair	1.02 kg/pair	10 pairs
190-028-950	4670-400BL	400	404	96	—	254	—	119	199	—	—	329	245 N/pair	25 kgf/pair	1.17 kg/pair	10 pairs
190-028-951	4670-450BL	450	455	128	—	294	—	119	247	—	—	379	294 N/pair	30 kgf/pair	1.31 kg/pair	10 pairs
190-028-952	4670-500BL	500	505	96	160	344	—	119	295	—	—	429	343 N/pair	35 kgf/pair	1.48 kg/pair	10 pairs
190-028-953	4670-550BL	550	556	96	160	394	—	119	215	343	—	479	392 N/pair	40 kgf/pair	1.62 kg/pair	6 pairs
190-028-954	4670-600BL	600	606	128	192	444	—	119	215	343	—	529	294 N/pair	30 kgf/pair	1.77 kg/pair	6 pairs

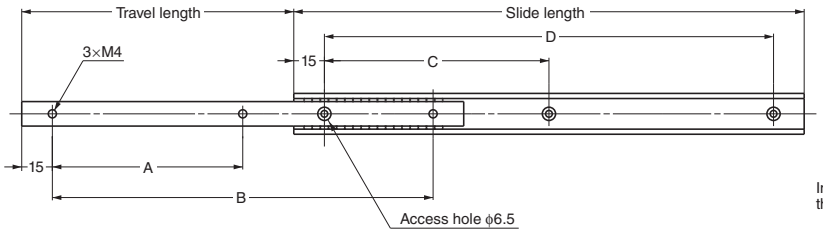
3/4 EXTENSION SLIDE

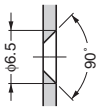
L=R AR2



■Features
- 3/4 extension (2 members).
- Non-handed.







Installation screw hole of the outer rail.

No.	Part Name	Material	Finish/Colour
①	Outer Rail	Aluminium Alloy	White Anodized
②	Inner Rail	Aluminium Alloy	White Anodized
③	Balls	Steel	—

Sold by piece.

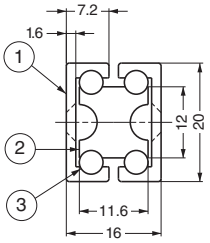
Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	Load Capacity N	Load Capacity kgf	Weight	Box
190-119-533	AR2-100	100	60	—	70	—	70	150 N/pair	15.3 kgf/pair	31 g	1,000 pcs
190-119-534	AR2-200	200	120	85	170	85	170	120 N/pair	12.2 kgf/pair	63 g	500 pcs
190-119-535	AR2-300	300	180	135	270	135	270	100 N/pair	10.2 kgf/pair	76 g	250 pcs
190-119-536	AR2-400	400	240	185	370	185	370	90 N/pair	9.2 kgf/pair	129 g	200 pcs
190-119-537	AR2-500	500	300	235	470	235	470	80 N/pair	8.2 kgf/pair	161 g	200 pcs

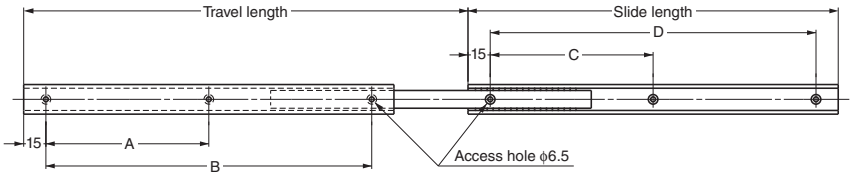
FULL EXTENSION SLIDE

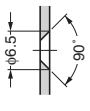
L=R AR3



■Features
- Full extension (3 members).
- Non-handed.







Installation screw hole of the outer rail.

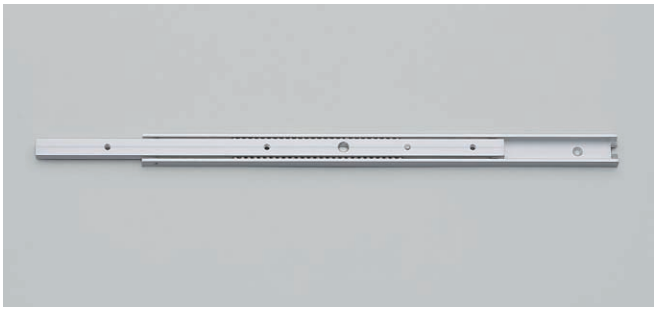
No.	Part Name	Material	Finish/Colour
①	Outer Rail	Aluminium Alloy	White Anodized
②	Inner Rail	Aluminium Alloy	White Anodized
③	Balls	Steel	—

Sold by piece.

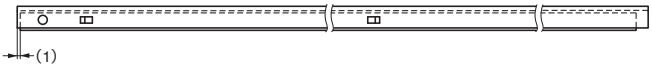
Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	Load Capacity N	Load Capacity kgf	Weight	Box
190-119-538	AR3-100	100	100	—	70	—	70	110 N/pair	11.2 kgf/pair	63 g	500 pcs
190-119-539	AR3-200	200	223	85	170	85	170	90 N/pair	9.2 kgf/pair	128 g	250 pcs
190-119-540	AR3-300	300	345	135	270	135	270	70 N/pair	7.1 kgf/pair	194 g	125 pcs
190-119-541	AR3-400	400	460	185	370	185	370	50 N/pair	5.1 kgf/pair	260 g	100 pcs
190-119-542	AR3-500	500	576	235	470	235	470	30 N/pair	3.1 kgf/pair	325 g	100 pcs

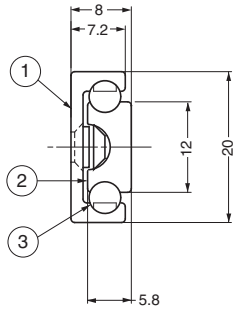
3/4 EXTENSION SLIDE

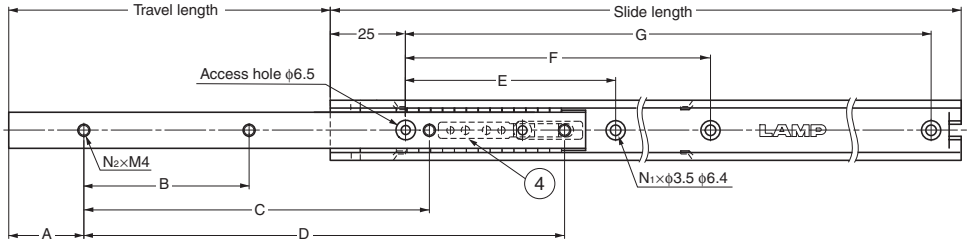
HOLD OPENED L=R **AR2-K**



■Features
- 3/4 extension (2 members).
- Non-handed.
- The drawer can be held in the fully opened position.







No.	Part Name	Material	Finish
①	Outer Rail	Aluminium Alloy	Anodized Silver
②	Inner Rail	Aluminium Alloy	Anodized Silver
③	Balls	Steel	–
④	Detent Catch	Stainless Steel (SUS304)	–

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	N_1	N_2	Load Capacity N	Load Capacity kgf	Weight	Box
190-112-251	AR2-K200	200	110	25	60	160	–	150	–	–	2	3	125 N/pair	12.7 kgf/pair	64 g	500 pcs
190-112-252	AR2-K300	300	170	45	100	230	–	130	250	–	3	3	110 N/pair	11.2 kgf/pair	97 g	250 pcs
190-112-253	AR2-K400	400	230	45	150	270	330	130	280	350	4	4	95 N/pair	9.7 kgf/pair	130 g	200 pcs
190-112-254	AR2-K500	500	290	45	190	340	430	130	280	450	4	4	85 N/pair	8.7 kgf/pair	162 g	200 pcs

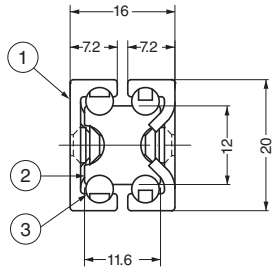
FULL EXTENSION SLIDE

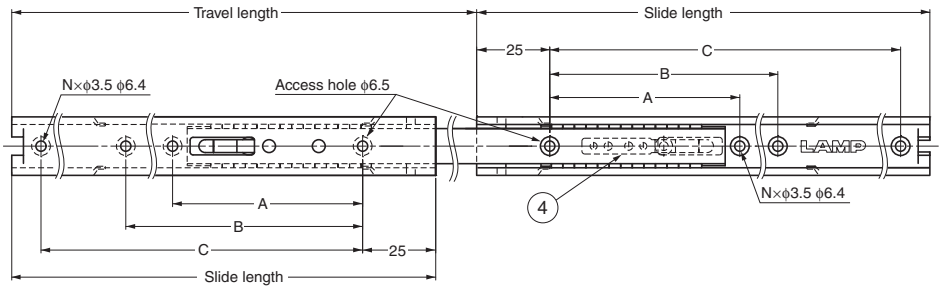
HOLD OPENED L=R **AR3-K**



■Features
- Full extension (3 members).
- Non-handed.
- The drawer can be held in the fully opened position.







No.	Part Name	Material	Finish
①	Outer Rail	Aluminium Alloy	Anodized Silver
②	Inner Rail	Aluminium Alloy	Anodized Silver
③	Balls	Steel	–
④	Detent Catch	Stainless Steel (SUS304)	–

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	N	Load Capacity N	Load Capacity kgf	Weight	Box
190-112-255	AR3-K200	200	214	150	–	–	2	105 N/pair	10.7 kgf/pair	130 g	250 pcs
190-112-256	AR3-K300	300	314	130	250	–	3	100 N/pair	10.2 kgf/pair	198 g	125 pcs
190-112-257	AR3-K400	400	414	130	280	350	4	90 N/pair	9.2 kgf/pair	263 g	100 pcs
190-112-258	AR3-K500	500	514	130	280	450	4	85 N/pair	8.7 kgf/pair	304 g	100 pcs

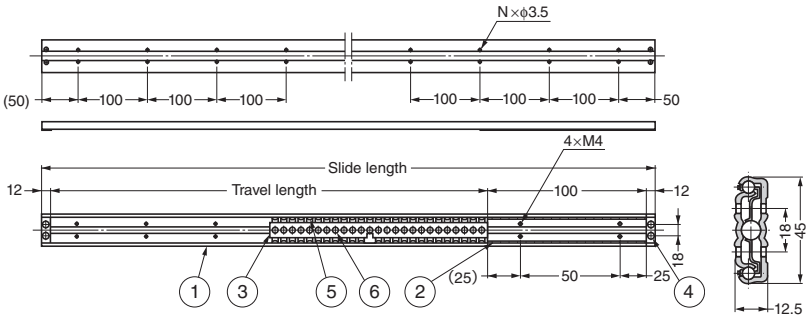
LINEAR BALL BEARING GUIDE

L=R STAINLESS 304 STEEL **TSSL**



■**Features**

- Stainless steel slide.
- Inner rail is located inside the retainer for precise movement.
- Non-handed.



No.	Part Name	Material	Finish/Colour
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	End Stopper	Polyamide (PA)	Black
⑤	Balls	Carbon Steel	–
⑥	Balls	Carbon Steel	–

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	Holes N	Weight	Box
190-110-600	TSSL- 300-100	300	176	6	0.46 kg/pc	12 pcs
190-110-601	TSSL- 400-100	400	276	8	0.57 kg/pc	12 pcs
190-110-602	TSSL- 500-100	500	376	10	0.68 kg/pc	12 pcs
190-110-603	TSSL- 600-100	600	476	12	0.80 kg/pc	12 pcs
190-110-604	TSSL- 800-100	800	676	16	1.05 kg/pc	12 pcs
190-110-605	TSSL-1000-100	1000	876	20	1.30 kg/pc	12 pcs

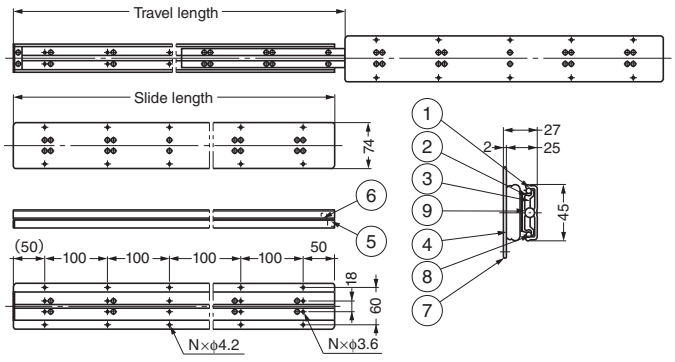
FULL EXTENSION SLIDE

L=R STAINLESS 304 STEEL **TSS3**



■**Features**

- Full extension (3 members).
- Non-handed.
- Heavy duty.



No.	Part Name	Material	Colour
①	Outer Rail	Stainless Steel (SUS304)	–
②	Inner Rail	Stainless Steel (SUS304)	–
③	Retainer	Stainless Steel (SUS304)	–
④	End Stopper	Polyamide (PA)	Black
⑤	Outer Guide	Polyacetal (POM)	Black
⑥	Inner Guide	Polyacetal (POM)	Black
⑦	Plate	Stainless Steel (SUS304)	–
⑧	Balls	Carbon Steel	–
⑨	Balls	Carbon Steel	–

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	Holes N	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-400	TSS3- 300	300	336	6	931 N/pair	95 kgf/pair	1.38 kg/pc	4 pcs
190-110-401	TSS3- 400	400	436	8	882 N/pair	90 kgf/pair	1.86 kg/pc	4 pcs
190-110-402	TSS3- 500	500	536	10	833 N/pair	85 kgf/pair	2.39 kg/pc	4 pcs
190-110-403	TSS3- 600	600	636	12	784 N/pair	80 kgf/pair	2.88 kg/pc	4 pcs
190-110-404	TSS3- 800	800	836	16	637 N/pair	65 kgf/pair	3.79 kg/pc	4 pcs
190-110-405	TSS3-1000	1000	1036	20	490 N/pair	50 kgf/pair	4.71 kg/pc	4 pcs

ALUMINIUM MINI GUIDE

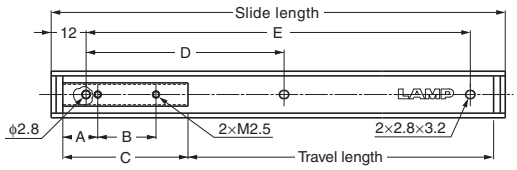
L=R

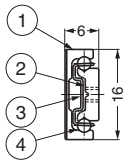
ARL2-16



■Features
- Thin profile for various applications.
- Light-weight aluminium body.

■Recommended Screws
- For outer rail: M2.5 low head screw
- For inner rail: M2.5 screw





No.	Part Name	Material	Finish
①	Outer Rail	Aluminium Alloy	Anodized Silver
②	Inner Rail	Aluminium Alloy	Anodized Silver
③	Retainer	Steel	Zinc Chromate Steel
④	Balls	Steel	–

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	Load Capacity N	Load Capacity kgf	Load Capacity N	Load Capacity kgf	Weight	Box
									[ ]		▬ ▬			
190-012-584	ARL2-16-70	70	(30)	5	18	28	–	46	20 N	2 kgf	8 N	0.8 kgf	13.37 g	20 pcs
190-012-585	ARL2-16-100	100	(52)	10	19	39	38	76	49 N	5 kgf	18 N	1.8 kgf	17.98 g	20 pcs
190-012-586	ARL2-16-150	150	(96)	10	19	39	63	126	49 N	5 kgf	18 N	1.8 kgf	23.28 g	20 pcs

ALUMINIUM MINI SLIDE (2-WAY)

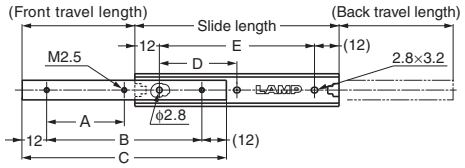
2-WAYS L=R

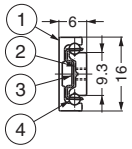
ARW2-16



■Features
- 3/4 extension (2 members).
- The drawer can be moved to the both directions.
- Thin profile for various applications.
- Light-weight aluminium body.
- Designed without positive stop for easy assembly. Please add a secondary stop if necessary.

■Recommended Screws
- For outer rail: M2.5 low head screw
- For inner rail: M2.5 screw





No.	Part Name	Material	Finish
①	Outer Rail	Aluminium Alloy	Anodized Silver
②	Inner Rail	Aluminium Alloy	Anodized Silver
③	Retainer	Steel	Zinc Chromate Steel
④	Balls	Steel	–

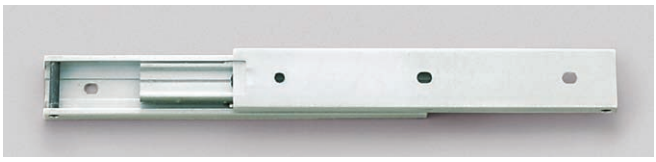
Sold by piece.

Item Code	Item Name	Slide Length	Front Travel Length	Back Travel Length	A	B	C	D	E	Load Capacity N	Load Capacity kg	Load Capacity N	Load Capacity kg	Weight	Box
										[ ]		▬ ▬			
190-012-578	ARW2-16-70	70	32	32	–	46	70	–	46	29 N	3 kg	11 N	1.1 kg	15.34 g	20 pcs
190-012-579	ARW2-16-100	100	40	40	38	76	100	38	76	49 N	5 kg	20 N	2 kg	21.2 g	20 pcs
190-012-580	ARW2-16-150	150	79	79	63	126	150	63	126	69 N	7 kg	30 N	3.1 kg	29.1 g	20 pcs

ALUMINIUM MINI SLIDE (FULL EXTENSION)

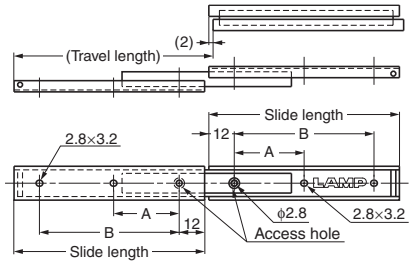
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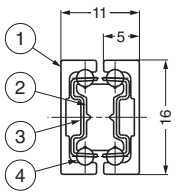
AR3-16



■Features
- Full extension (3 members).
- Thin profile for various applications.
- Light-weight aluminium body.

■Recommended Screws
For outer rail: M2.5 low head screw



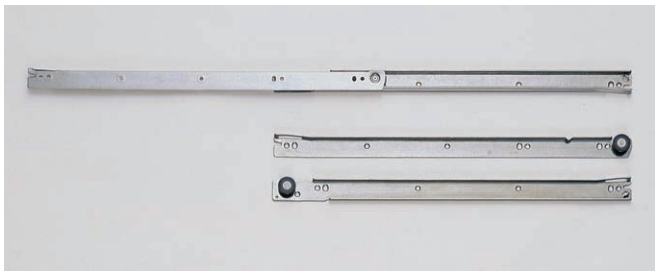


No.	Part Name	Material	Finish
①	Outer Rail	Aluminium Alloy	Anodized Silver
②	Inner Rail	Aluminium Alloy	Anodized Silver
③	Retainer	Steel	Zinc Chromate Steel
④	Balls	Steel	–

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	Load Capacity N	Load Capacity kgf	Weight	Box
190-012-581	AR3-16-80	80	77	–	56	20 N/pair	2 kgf/pair	31.44 g	10 pcs
190-012-582	AR3-16-100	100	117	38	76	29 N/pair	3 kgf/pair	35.6 g	10 pcs
190-012-583	AR3-16-150	150	151	63	126	39 N/pair	4 kgf/pair	54.3 g	10 pcs

STAINLESS STEEL DRAWER RUNNER DETACH CATCH STAINLESS 430 STEEL RKA5 (SUS430)

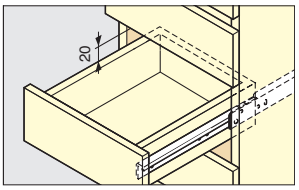


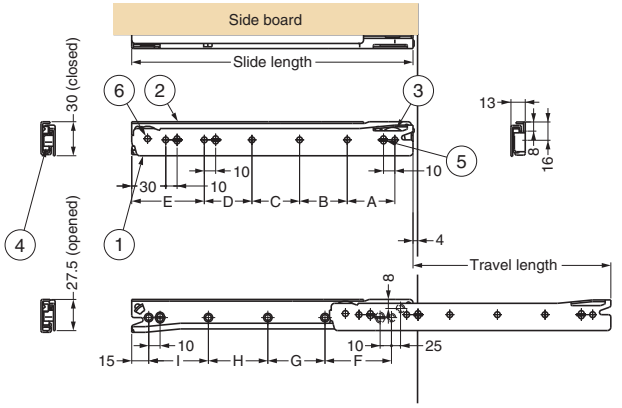
■Features

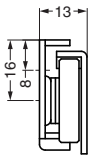
- 3/4 extension (2 members).
- Urethane roller provides smooth and silent movement.
- The drawer is detachable.
- Self-closing.

■Recommended Screws

M3 or M3.5 screw







No.	Part Name	Material	Finish/Colour
①	Inner Rail	Stainless Steel (SUS430)	—
②	Outer Rail	Stainless Steel (SUS430)	—
③	Roller	Polyurethane (PUR)/ Polyacetal (POM)	Black/ White
④	Rail Guide	Polyacetal (POM)	White
⑤	Roller Washer	Stainless Steel (SUS430)	—
⑥	Shaft	Stainless Steel (SUS430)	—

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	Inner Rail						Outer Rail					Load Capacity N	Load Capacity kgf	Weight	Box
				A	B	C	D	E	Holes	F	G	H	I	Holes				
190-110-170	RKA5-300 (SUS430)	296	205	165	—	—	—	115	6	112.5	112.5	—	—	6	147 N/pair	15 kgf/pair	0.48 kg/pair	20 pairs
190-110-171	RKA5-350 (SUS430)	346	250	105	105	—	—	120	7	91.5	92	91.5	—	7	147 N/pair	15 kgf/pair	0.57 kg/pair	20 pairs
190-110-172	RKA5-400 (SUS430)	396	295	127.5	127.5	—	—	125	7	108.5	108	108.5	—	7	147 N/pair	15 kgf/pair	0.65 kg/pair	20 pairs
190-110-173	RKA5-450 (SUS430)	446	340	100	100	100	—	130	8	125	125	125	—	7	147 N/pair	15 kgf/pair	0.7 kg/pair	10 pairs
190-110-174	RKA5-500 (SUS430)	496	380	113	114	113	—	140	8	106	106.5	106.5	106	8	147 N/pair	15 kgf/pair	0.82 kg/pair	10 pairs
190-110-175	RKA5-550 (SUS430)	546	420	126.5	127	126.5	—	150	8	119	118.5	118.5	119	8	147 N/pair	15 kgf/pair	0.9 kg/pair	10 pairs
190-110-176	RKA5-600 (SUS430)	596	460	105	105	105	105	160	9	131.5	131	131	131.5	8	147 N/pair	15 kgf/pair	0.98 kg/pair	10 pairs

DRAWER RUNNER DETACH CATCH RKA5



Same dimensions as RKA5 (SUS430).

■Features

- 3/4 extension (2 members).
- Urethane roller provides smooth and silent movement.
- The drawer is detachable.
- Self-closing.

■Recommended Screws

M3 or M3.5 screw

No.	Part Name	Material	Finish/Colour
①	Inner Rail	Steel	Powder Coating/White
②	Outer Rail	Steel	Powder Coating/White
③	Roller	Polyurethane (PUR)/Polyacetal (POM)	Black/White
④	Rail Guide	Polyacetal (POM)	White
⑤	Roller Washer	Steel	Clear Zinc Chromate
⑥	Shaft	Steel	Nickel

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	Inner Rail						Outer Rail					Load Capacity N	Load Capacity kgf	Weight	Box
				A	B	C	D	E	Holes	F	G	H	I	Holes				
190-110-110	RKA5-300	296	205	165	—	—	—	115	6	112.5	112.5	—	—	6	147 N/pair	15 kgf/pair	480 g/pair	20 pairs
190-110-111	RKA5-350	346	250	105	105	—	—	120	7	91.5	92	91.5	—	7	147 N/pair	15 kgf/pair	570 g/pair	20 pairs
190-110-112	RKA5-400	396	295	127.5	127.5	—	—	125	7	108.5	108	108.5	—	7	147 N/pair	15 kgf/pair	650 g/pair	20 pairs
190-110-113	RKA5-450	446	340	100	100	100	—	130	8	125	125	125	—	7	147 N/pair	15 kgf/pair	700 g/pair	10 pairs
190-110-114	RKA5-500	496	380	113	114	113	—	140	8	106	106.5	106.5	106	8	147 N/pair	15 kgf/pair	820 g/pair	10 pairs
190-110-115	RKA5-550	546	420	126.5	127	126.5	—	150	8	119	118.5	118.5	119	8	147 N/pair	15 kgf/pair	900 g/pair	10 pairs
190-110-116	RKA5-600	596	460	105	105	105	105	160	9	131.5	131	131	131.5	8	147 N/pair	15 kgf/pair	980 g/pair	10 pairs

DRAWER RUNNER (UNDER MOUNT)

DETACH CATCH

RKA6

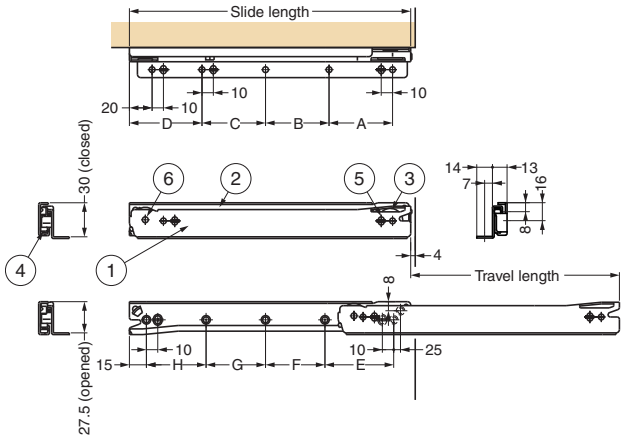


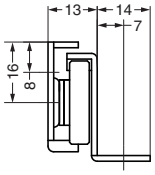
■Features

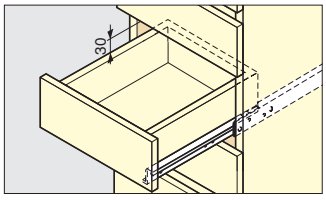
- 3/4 extension (2 members).
- Urethane roller provides smooth and silent movement.
- The drawer is detachable.
- Self-closing.

■Recommended Screws

M3 or M3.5 screw







No.	Part Name	Material	Finish/Colour
①	Inner Rail	Steel	Powder Coating/White
②	Outer Rail	Steel	Powder Coating/White
③	Roller	Polyurethane (PUR)/Polyacetal (POM)	Black/White
④	Rail Guide	Polyacetal (POM)	White
⑤	Roller Washer	Steel	Clear Zinc Chromate
⑥	Shaft	Steel	Nickel

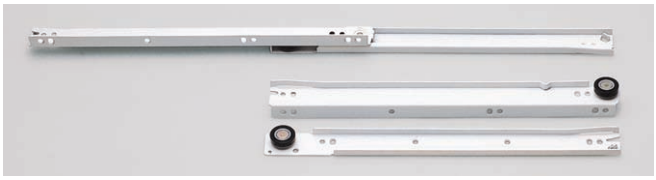
Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	Inner Rail					Outer Rail					Load Capacity N	Load Capacity kgf	Weight	Box
				A	B	C	D	Holes	E	F	G	H	Holes				
190-110-120	RKA6-300	296	205	165	—	—	115	6	112.5	112.5	—	—	6	147 N/pair	15 kgf/pair	580 g/pair	20 pairs
190-110-121	RKA6-350	346	250	210	—	—	120	6	91.5	92	91.5	—	7	147 N/pair	15 kgf/pair	680 g/pair	20 pairs
190-110-122	RKA6-400	396	295	127.5	127.5	—	125	7	108.5	108	108.5	—	7	147 N/pair	15 kgf/pair	780 g/pair	20 pairs
190-110-123	RKA6-450	446	340	150	150	—	130	7	125	125	125	—	7	147 N/pair	15 kgf/pair	865 g/pair	10 pairs
190-110-124	RKA6-500	496	380	170	170	—	140	7	106	106.5	106.5	106	8	147 N/pair	15 kgf/pair	985 g/pair	10 pairs
190-110-125	RKA6-550	546	420	190	190	—	150	7	119	118.5	118.5	119	8	147 N/pair	15 kgf/pair	1085 g/pair	10 pairs
190-110-126	RKA6-600	596	460	140	140	140	160	8	131.5	131	131	131.5	8	147 N/pair	15 kgf/pair	1185 g/pair	10 pairs

DRAWER RUNNER (UNDER MOUNT)

DETACH CATCH

RJA6

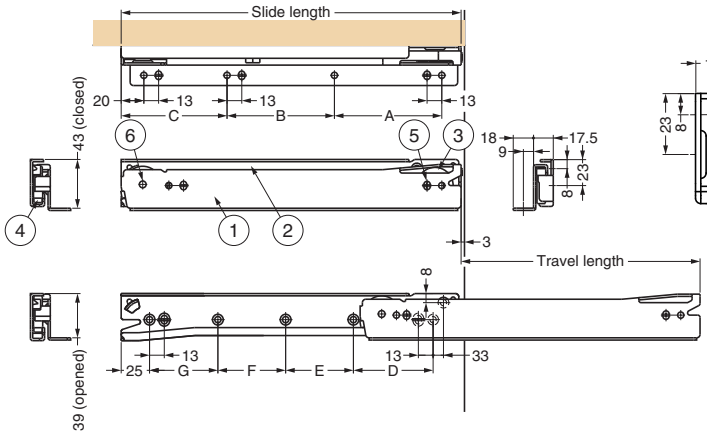


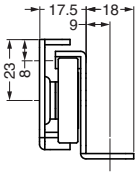
■Features

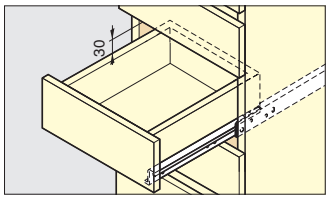
- 3/4 extension (2 members).
- Urethane roller provides smooth and silent movement.
- The drawer is detachable.
- Self-closing.

■Recommended Screws

M4







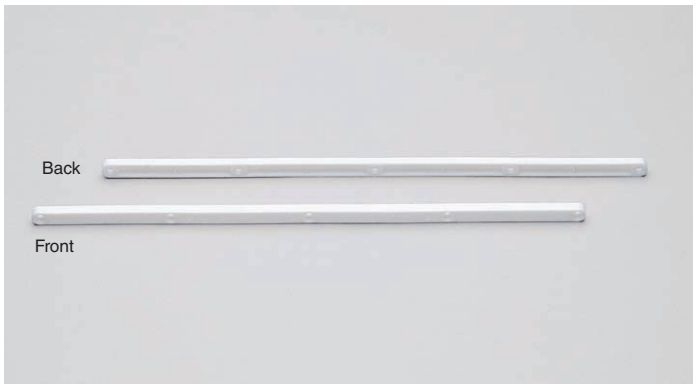
No.	Part Name	Material	Finish/Colour
①	Inner Rail	Steel	Powder Coating/White
②	Outer Rail	Steel	Powder Coating/White
③	Roller	Polyurethane (PUR)/Polyacetal (POM)	Black/White
④	Rail Guide	Polyacetal (POM)	White
⑤	Roller Washer	Stainless Steel (SUS430)	—
⑥	Shaft	Stainless Steel (SUS430)	—

Sold in pairs (2 pcs).

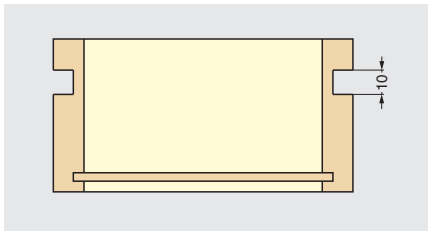
Item Code	Item Name	Slide Length	Travel Length	Inner Rail				Outer Rail					Load Capacity N	Load Capacity kgf	Weight	Box
				A	B	C	Holes	D	E	F	G	Holes				
190-110-151	RJA6-350	347	230	190	—	140	6	125	125	—	—	6	294 N/pair	30 kgf/pair	1.2 kg/pair	10 pairs
190-110-152	RJA6-400	397	275	117.5	117.5	145	7	100	100	100	—	7	294 N/pair	30 kgf/pair	1.44 kg/pair	10 pairs
190-110-153	RJA6-450	447	315	137.5	137.5	155	7	117	116	117	—	7	294 N/pair	30 kgf/pair	1.625 kg/pair	5 pairs
190-110-154	RJA6-500	497	355	157.5	157.5	165	7	100	100	100	100	8	294 N/pair	30 kgf/pair	1.81 kg/pair	5 pairs
190-110-155	RJA6-550	547	395	177.5	177.5	175	7	113	112	112	113	8	294 N/pair	30 kgf/pair	1.995 kg/pair	5 pairs

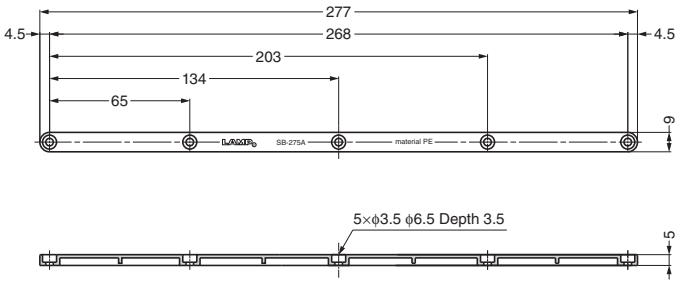
PLASTIC SLIDE

TEST METHOD 13 L=R **SB-275A**



■Features
- Easy installation.
- Used in pairs.



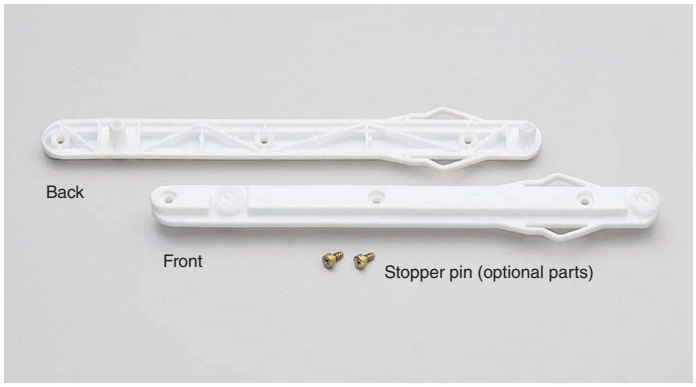


Sold by piece.

Item Code	Item Name	Material	Colour	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-500	SB-275A	Polyethylene (PE)	White	49 N/pair	5 kgf/pair	6 g	1,000 pcs

PLASTIC SLIDE

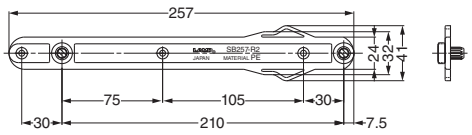
TEST METHOD 13 L=R **SB-257-R2**



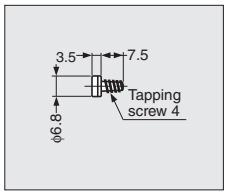
■Features
- With two rollers for smooth movement.
- Simple installation by using the dowels on the slide. For fixing the slide to the cabinet tightly, please use screws.
- Used in pairs.

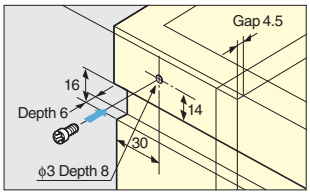
■Optional Parts

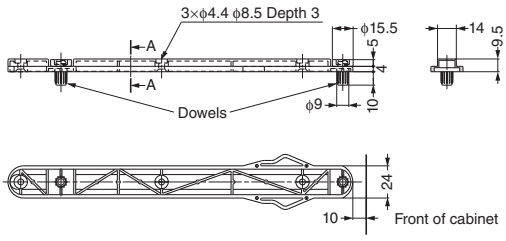
Stopper pin SBSP



■Stopper Pin (Optional Parts)







■Slide

Sold by piece.

Item Code	Item Name	Material	Colour	Load Capacity N	Load Capacity kgf	Weight	Box
190-111-300	SB-257-R2	Polyethylene (PE)	White	49 N/pair	5 kgf/pair	20 g	400 pcs

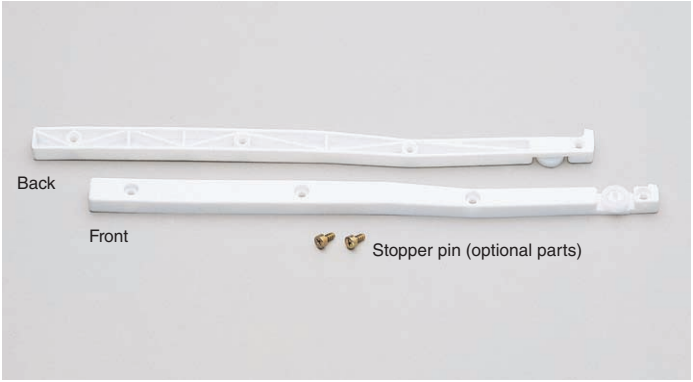
■Stopper Pin (Optional Parts)

Item Code	Item Name	Material	Finish	Box	Carton
190-110-013	SBSP	Steel	Yellow Zinc Chromate	1,600 pcs	8,000 pcs

PLASTIC SLIDE

TEST METHOD 13

SB-300R

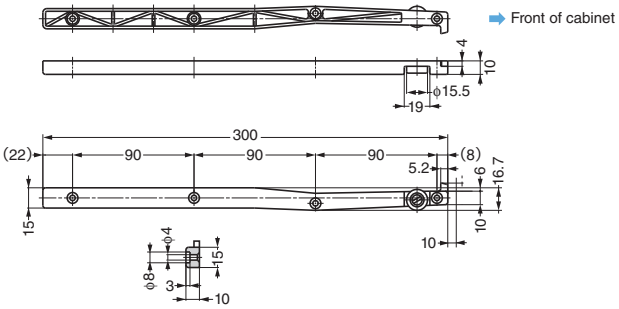


■Features

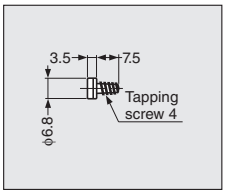
- Easy installation.
- With the roller for smooth movement.
- Used in pairs.

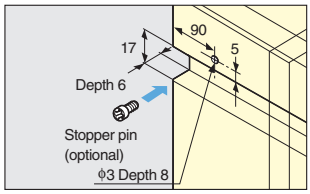
■Optional Parts

Stopper pin SBSP



■Stopper Pin (Optional Parts)





■Slide

Sold by piece.

Item Code	Item Name	Type	Material	Colour	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-502	SB-300RR	Right	Polyethylene (PE)	White	49 N/pair	5 kgf/pair	20 g	600 pcs
190-110-503	SB-300RL	Left	Polyethylene (PE)	White	49 N/pair	5 kgf/pair	20 g	600 pcs

■Stopper Pin (Optional Parts)

Item Code	Item Name	Material	Finish	Box	Carton
190-110-013	SBSP	Steel	Yellow Zinc Chromate	1,600 pcs	8,000 pcs

DRAWER DAMPER

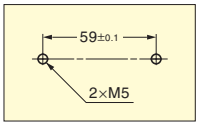
GDSR144-R

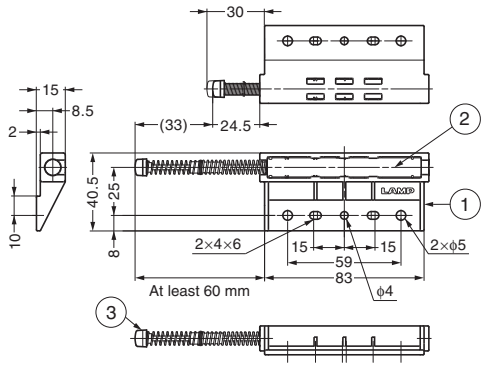


■Remarks

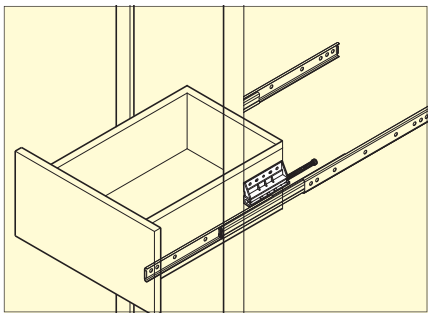
Latch is required to hold the drawer in closed position.

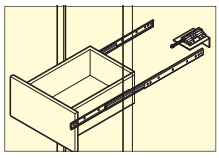
■Cut Out Dimensions

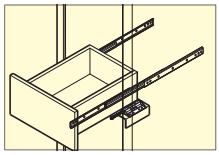




■Installation







No.	Part Name	Material	Colour
①	Bracket	ABS	Light Grey
②	Body	Polyacetal (POM)	Grey
③	Bumper	Polyurethane (PUR)	Red

Item Code	Item Name	Reaction Force N	Reaction Force kgf	Weight	Box
190-118-835	GDSR144-R	20 N	2 kgf	24 g	240 pcs

MINI GUIDE BLOCK & RAIL

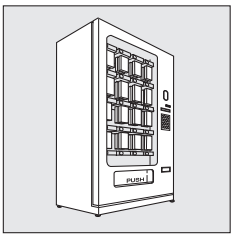
MRS, MR

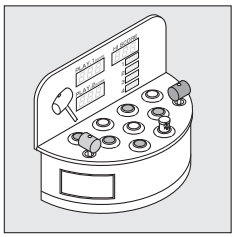


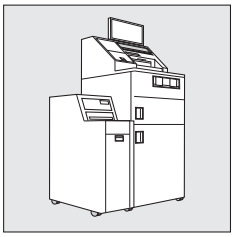


■Features

- Ideal for small stroke application.
- No grease needed.

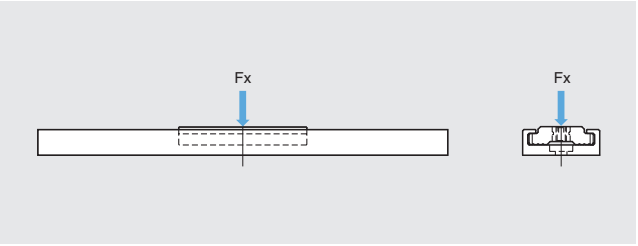


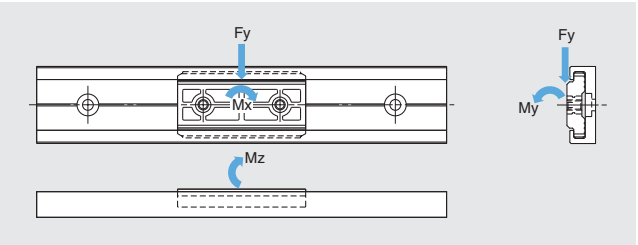




■Load Rating Information

Reduction factor





※Certain reduction needs to be applied to the load rating depending on application or environment.

Conditions	Static Friction Coefficient	Dynamic Friction Coefficient
Low speed/low operation frequency	0.4 ～ 0.5	0.9 ～ 1.0
Moderate speed/high operation frequency	0.3 ～ 0.4	0.6 ～ 0.8
High operation frequency with vibration and shocks	0.2 ～ 0.3	0.3 ～ 0.5

Item Code	Item Name	Horizontal Static Load Fx N	Horizontal Static Load Fx kgf	Vertical Static Load Fy N	Vertical Static Load Fy kgf
190-027-335	MR-15CS	100 N	10.2 kgf	30 N	3.06 kgf
190-111-496	MR-20CS	300 N	30.6 kgf	175 N	17.8 kgf
190-111-489	MR-50CN	520 N	53.0 kgf	305 N	31.1 kgf

Item Name	Vertical Dynamic Load Mx N・m	Vertical Dynamic Load Mx kgf・cm	Horizontal Dynamic Load My N・m	Horizontal Dynamic Load My kgf・cm
MR-15CS	—	—	—	—
MR-20CS	3 N・m	30.6 kgf・cm	1.5 N・m	15.3 kgf・cm
MR-50CN	5 N・m	51.0 kgf・cm	2.5 N・m	25.5 kgf・cm

Item Name	Horizontal Dynamic Load Mz N・m	Horizontal Dynamic Load Mz kgf・cm
MR-15CS	—	—
MR-20CS	1.5 N・m	15.3 kgf・cm
MR-50CN	2.5 N・m	25.5 kgf・cm

MINI GUIDE RAIL

MRS

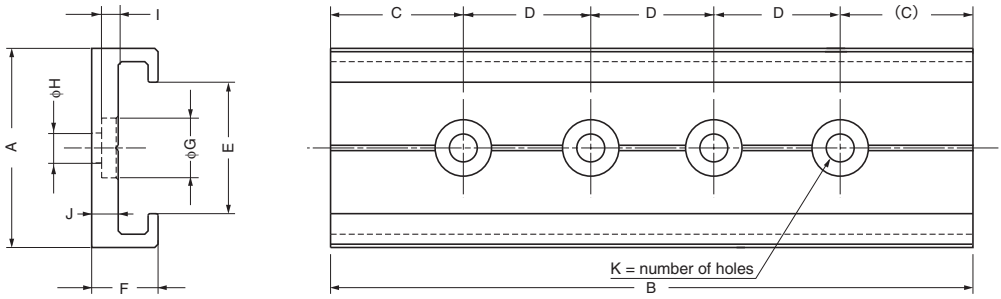


■Features

- Ideal for small stroke application.
- No grease needed.

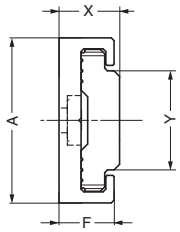
■Recommended Screws

- Hexagon socket button head screw M3, Pan head screw M3 (MRS15)
- M4 hexagon socket button head screw (MRS20, MRS30)



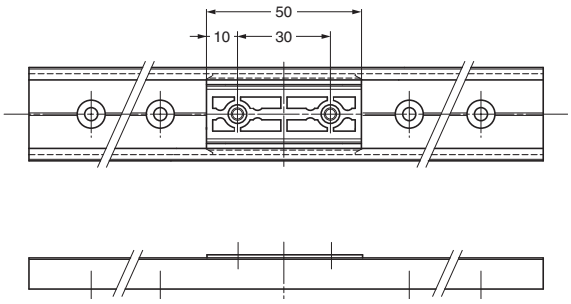
■How to Combine Guide Blocks and Rails

(sold separately)



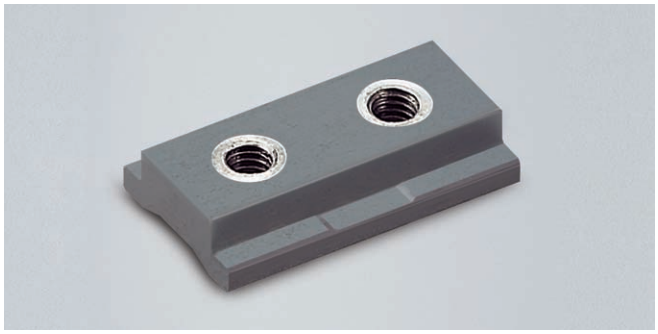
Mini Guide Rail			Mini Guide Block		
Item Name	A	F	Item Name	X	Y
MRS15	15	6	MR-15CS	7	7.8
MRS20	20	7.2	MR-20CS	8.2	11.2
MRS30	30	10	MR-50CS	11	18

Combination example: MRS30 & MR-50CN

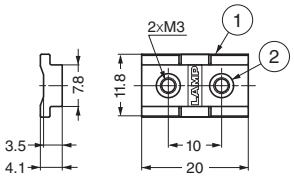


Item Code	Item Name	A	B	C	D	E	F	G	H	I	J	K	Material	Finish	Guide Block	Weight	Box
190-027-331	MRS15- 100	15	100	25	50	8.7	6	6.5	3.5	1.8	2.8	2	Aluminium Alloy	Anodized Silver	MR-15CS	14.5 g	200 pcs
190-027-332	MRS15- 200	15	200	25	50	8.7	6	6.5	3.5	1.8	2.8	4	Aluminium Alloy	Anodized Silver	MR-15CS	29 g	200 pcs
190-027-333	MRS15- 400	15	400	25	50	8.7	6	6.5	3.5	1.8	2.8	8	Aluminium Alloy	Anodized Silver	MR-15CS	58 g	100 pcs
190-027-334	MRS15- 800	15	800	25	50	8.7	6	6.5	3.5	1.8	2.8	16	Aluminium Alloy	Anodized Silver	MR-15CS	117 g	80 pcs
190-111-491	MRS20- 100	20	100	25	50	12.4	7.2	7.6	4.5	1.8	3	2	Aluminium Alloy	Anodized Silver	MR-20CS	20 g	200 pcs
190-111-492	MRS20- 200	20	200	25	50	12.4	7.2	7.6	4.5	1.8	3	4	Aluminium Alloy	Anodized Silver	MR-20CS	40 g	200 pcs
190-111-493	MRS20- 400	20	400	25	50	12.4	7.2	7.6	4.5	1.8	3	8	Aluminium Alloy	Anodized Silver	MR-20CS	80 g	100 pcs
190-111-494	MRS20- 800	20	800	25	50	12.4	7.2	7.6	4.5	1.8	3	16	Aluminium Alloy	Anodized Silver	MR-20CS	160 g	80 pcs
190-111-495	MRS20-2000	20	2000	25	50	12.4	7.2	7.6	4.5	1.8	3	40	Aluminium Alloy	Anodized Silver	MR-20CS	400 g	30 pcs
190-112-860	MRS30- 100	30	100	10	40	19.8	10	8.5	4.5	2.5	4	3	Aluminium Alloy	Anodized Silver	MR-50CN	39 g	200 pcs
190-112-861	MRS30- 200	30	200	20	40	19.8	10	8.5	4.5	2.5	4	5	Aluminium Alloy	Anodized Silver	MR-50CN	79 g	100 pcs
190-112-862	MRS30- 400	30	400	20	40	19.8	10	8.5	4.5	2.5	4	10	Aluminium Alloy	Anodized Silver	MR-50CN	159 g	50 pcs
190-112-863	MRS30- 800	30	800	20	40	19.8	10	8.5	4.5	2.5	4	20	Aluminium Alloy	Anodized Silver	MR-50CN	312 g	40 pcs
190-112-864	MRS30-2000	30	2000	20	40	19.8	10	8.5	4.5	2.5	4	50	Aluminium Alloy	Anodized Silver	MR-50CN	790 g	15 pcs

MINI GUIDE BLOCK MR-15CS



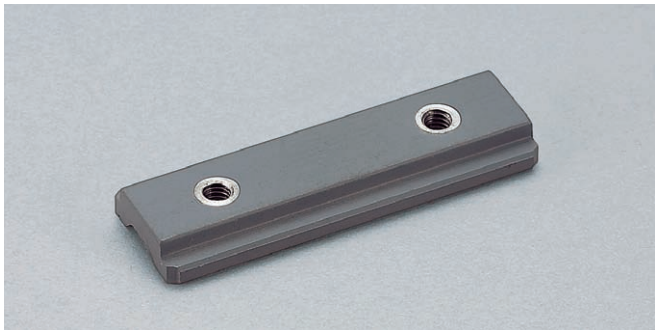
■Features
- Ideal for small stroke application.
- No grease needed.
- Flame resistance (UL94HB).
- Use with MRS15 mini guide rail.
- See P.596 for load rating.



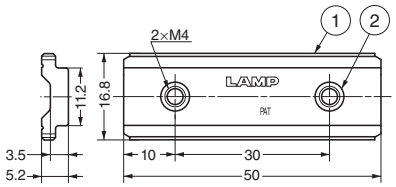
Item Code	Item Name	Guide Rail	Weight	Box
190-027-335	MR-15CS	MRS15	2 g	150 pcs

No.	Material	Finish/Colour
①	Polyethylene (UL94HB)	Grey
②	Stainless Steel (SUS304)	Plain

MINI GUIDE BLOCK MR-20CS



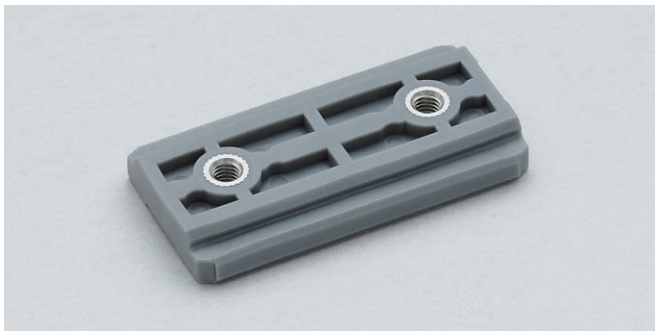
■Features
- Ideal for small stroke application.
- No grease needed.
- Flame resistance (UL94HB).
- Use with MRS20 mini guide rail.
- See P.596 for load rating.



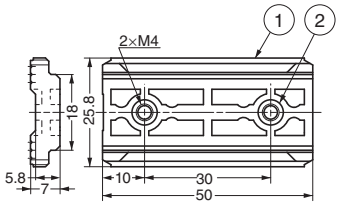
Item Code	Item Name	Guide Rail	Weight	Box
190-111-496	MR-20CS	MRS20	6 g	50 pcs

No.	Material	Finish/Colour
①	Polyethylene (UL94HB)	Grey
②	Stainless Steel (SUS304)	Plain

MINI GUIDE BLOCK MR-50CN



■Features
- Ideal for small stroke application.
- No grease needed.
- Flame resistance (UL94HB).
- Use with MRS30 mini guide rail.
- See P.596 for load rating.



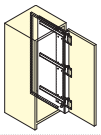
Item Code	Item Name	Guide Rail	Weight	Box
190-111-489	MR-50CN	MRS30	7 g	50 pcs

No.	Material	Finish/Colour
①	Polyethylene (UL94HB)	Grey
②	Stainless Steel (SUS304)	Plain

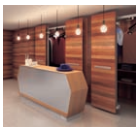
WARDROBE &
CABINET DOOR HARDWARE

SUGATSUNE

POCKET DOOR SYSTEMS

Picture	Item Name	Door Weight (kg)	Page
	ALT-2V-220 (INSET)	5～10	602～607
	ALT-2V-5 (OVERLAY)	5～10	608～613
	ALT-F (INSET, FOLDING)	10	614～615
	TSSL-2V (INSET)	20	616～617

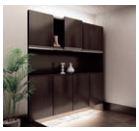
FLUSH / LATERAL OPENING DOOR SYSTEMS

Picture	Item Name	Door Weight (kg)	Page
	FAD-5	5	632
	LIN-X450, 600	17, 24	624～628
	FAD-20	20	633
	MFU-1000	30	622～623
	FAD-44	35	634～635
	FAD-54 (PARTITION)	35	636～637
	LIN-X1000	90	629～631

SLIDING DOOR SYSTEMS

Picture	Item Name	Door Weight (kg)	Page
	ASDF-1	4	643
	OX	5	638～639
	XL-GC FOR GLASS DOORS	12	640～642

MULTIPLE MOTION DOOR SYSTEMS

Picture	Item Name	Door Weight (kg)	Page
	MFS-W	1.5～6.8	618～619
	MFS-G FOR GLASS DOORS	1.5～6.7	620～621
	RB-600 STAINLESS 304 STEEL	Load Capacity (kgf): 75.5	650～651

FOLDING DOOR SYSTEMS

Picture	Item Name	Door Weight (kg)	Page
	KF28	7	644～645
	FD30-F	15	646～649

HANGERS

Picture	Item Name	Load Capacity (kgf)	Page
	TAW	7～8	653
	TAS	4～5	653
	TAT	4～5	654
	UH STAINLESS 304 STEEL	3	657
	AS STAINLESS 430 STEEL	5	656
	WH	4～6	656
	TE700, 800	20	657
	SH740	41	658
	CK STAINLESS 304 STEEL	1.5	658
	HM-250V STAINLESS 304 STEEL	3	659
	HM-250Y STAINLESS 304 STEEL	3	659
	HM-330 STAINLESS 304 STEEL	3	659
	PS-37 (PIPE HOLDER)	20/2 pcs	659

TIE RACKS

Picture	Item Name	Page
	TIEM	660
	TIE-33	660
	MST-20	661
	TR	661
	S-350 STAINLESS 304 STEEL	662
	STR STAINLESS 304 STEEL	662
	DTR STAINLESS 304 STEEL	662

POCKET DOOR SYSTEM (INSET)

STEEL

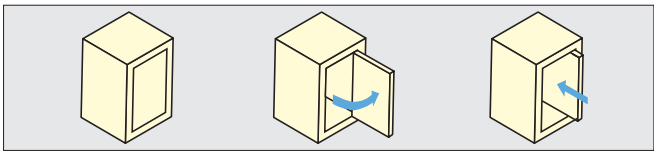
ALT-2V-220

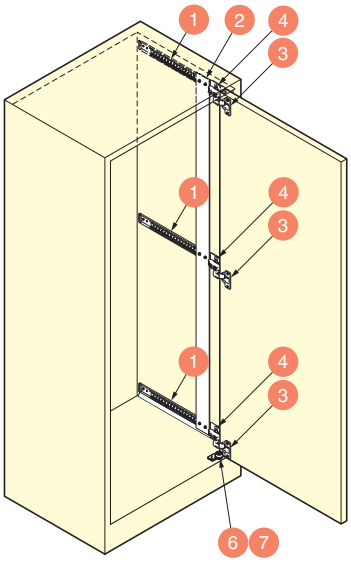


Item Name	ALT-2V-220S-16~28 S Type (2 Rails)	ALT-2V-220M-16~28 M Type (3 Rails)	ALT-2V-220L-16~28 L Type (3 Rails)	ALT-2V-220LL-16~28 LL Type (4 Rails)
Door Width	Max. 560 mm	Max. 560 mm	Max. 560 mm	Max. 600 mm
Door Height	820~1060 mm	1240~1500 mm	1640~1840 mm	1980~2300 mm
Door Thickness	18~30 mm			
Door Weight	Max. 5 kg	Max. 6 kg	Max. 8 kg	Max. 10 kg

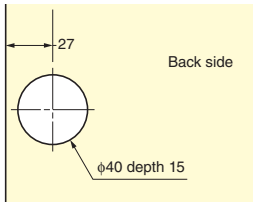
■Features

- Pocket door application.
- Space saving.

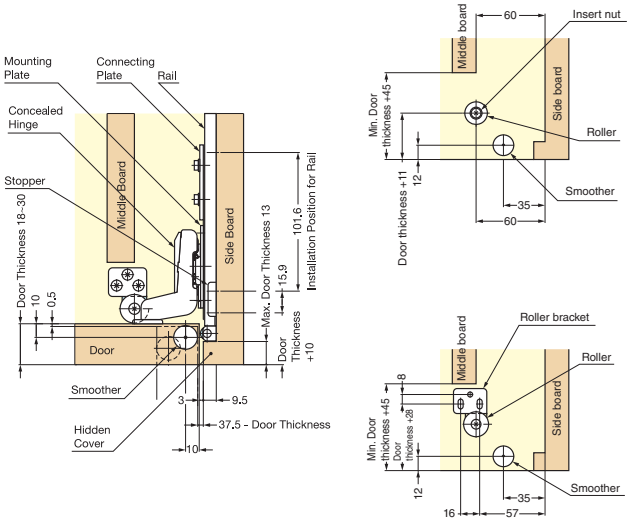




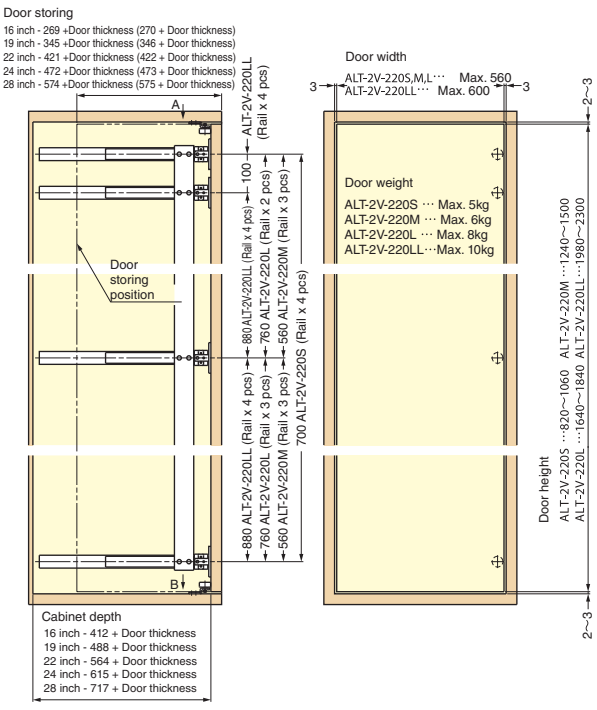
■Door Cut Out Dimensions



■Rail Installation & Clearance Dimensions



■Installation

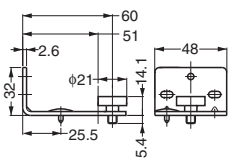


Parts Set (Per Door)

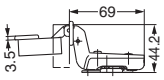
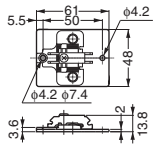
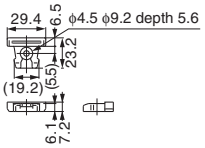
Necessary Parts

Type	Item Code	Item Name	Part Name											
			① Rail		② Connecting Plate		③ Concealed Hinge (Body)		④ Mounting Plate		⑤ Catch		⑥～⑩ Parts Set	
			 See P.604 for details.		 See P.604 for details.		 (w/ catch)							
			Item Name	Qty	Item Name	Qty	Item Name	Qty	Item Name	Qty	Item Name	Qty	Item Name	Qty
S	180-120-930	ALT-2V-220S-16	AL127C-16	2 pcs	ALT55-S	1 pc	H230-C26/0T	2 pcs	ALT-MP	2 pcs	AL127-CH	1 pc	ALT-2V-220SP	1 set
	180-120-931	ALT-2V-220S-19	AL127C-19	2 pcs	ALT55-S	1 pc	H230-C26/0T	2 pcs	ALT-MP	2 pcs	AL127-CH	1 pc	ALT-2V-220SP	1 set
	180-120-932	ALT-2V-220S-22	AL127C-22	2 pcs	ALT55-S	1 pc	H230-C26/0T	2 pcs	ALT-MP	2 pcs	AL127-CH	1 pc	ALT-2V-220SP	1 set
	180-120-933	ALT-2V-220S-24	AL127C-24	2 pcs	ALT55-S	1 pc	H230-C26/0T	2 pcs	ALT-MP	2 pcs	AL127-CH	1 pc	ALT-2V-220SP	1 set
	180-120-934	ALT-2V-220S-28	AL127C-28	2 pcs	ALT55-S	1 pc	H230-C26/0T	2 pcs	ALT-MP	2 pcs	AL127-CH	1 pc	ALT-2V-220SP	1 set
M	180-120-935	ALT-2V-220M-16	AL127C-16	3 pcs	ALT55-M	1 pc	H230-C26/0T	3 pcs	ALT-MP	3 pcs	AL127-CH	2 pcs	ALT-2V-220LP	1 set
	180-120-936	ALT-2V-220M-19	AL127C-19	3 pcs	ALT55-M	1 pc	H230-C26/0T	3 pcs	ALT-MP	3 pcs	AL127-CH	2 pcs	ALT-2V-220LP	1 set
	180-120-937	ALT-2V-220M-22	AL127C-22	3 pcs	ALT55-M	1 pc	H230-C26/0T	3 pcs	ALT-MP	3 pcs	AL127-CH	2 pcs	ALT-2V-220LP	1 set
	180-120-938	ALT-2V-220M-24	AL127C-24	3 pcs	ALT55-M	1 pc	H230-C26/0T	3 pcs	ALT-MP	3 pcs	AL127-CH	2 pcs	ALT-2V-220LP	1 set
	180-120-939	ALT-2V-220M-28	AL127C-28	3 pcs	ALT55-M	1 pc	H230-C26/0T	3 pcs	ALT-MP	3 pcs	AL127-CH	2 pcs	ALT-2V-220LP	1 set
L	180-120-940	ALT-2V-220L-16	AL127C-16	3 pcs	ALT55-L	1 pc	H230-C26/0T	3 pcs	ALT-MP	3 pcs	AL127-CH	2 pcs	ALT-2V-220LP	1 set
	180-120-941	ALT-2V-220L-19	AL127C-19	3 pcs	ALT55-L	1 pc	H230-C26/0T	3 pcs	ALT-MP	3 pcs	AL127-CH	2 pcs	ALT-2V-220LP	1 set
	180-120-942	ALT-2V-220L-22	AL127C-22	3 pcs	ALT55-L	1 pc	H230-C26/0T	3 pcs	ALT-MP	3 pcs	AL127-CH	2 pcs	ALT-2V-220LP	1 set
	180-120-943	ALT-2V-220L-24	AL127C-24	3 pcs	ALT55-L	1 pc	H230-C26/0T	3 pcs	ALT-MP	3 pcs	AL127-CH	2 pcs	ALT-2V-220LP	1 set
	180-120-944	ALT-2V-220L-28	AL127C-28	3 pcs	ALT55-L	1 pc	H230-C26/0T	3 pcs	ALT-MP	3 pcs	AL127-CH	2 pcs	ALT-2V-220LP	1 set
LL	180-120-945	ALT-2V-220LL-16	AL127C-16	4 pcs	ALT55-LL	1 pc	H230-C26/0T	4 pcs	ALT-MP	4 pcs	AL127-CH	2 pcs	ALT-2V-220LLP	1 set
	180-120-946	ALT-2V-220LL-19	AL127C-19	4 pcs	ALT55-LL	1 pc	H230-C26/0T	4 pcs	ALT-MP	4 pcs	AL127-CH	2 pcs	ALT-2V-220LLP	1 set
	180-120-947	ALT-2V-220LL-22	AL127C-22	4 pcs	ALT55-LL	1 pc	H230-C26/0T	4 pcs	ALT-MP	4 pcs	AL127-CH	2 pcs	ALT-2V-220LLP	1 set
	180-120-948	ALT-2V-220LL-24	AL127C-24	4 pcs	ALT55-LL	1 pc	H230-C26/0T	4 pcs	ALT-MP	4 pcs	AL127-CH	2 pcs	ALT-2V-220LLP	1 set
	180-120-949	ALT-2V-220LL-28	AL127C-28	4 pcs	ALT55-LL	1 pc	H230-C26/0T	4 pcs	ALT-MP	4 pcs	AL127-CH	2 pcs	ALT-2V-220LLP	1 set

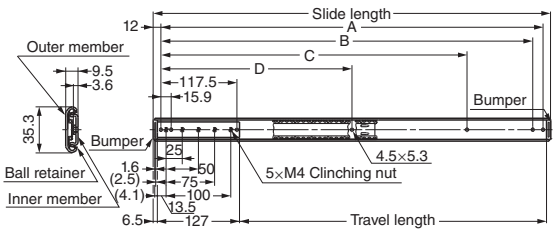
Optional Parts

No.	Qty	Item Code	Part Name	Dimensions	Description
⑪	1 pc	180-120-340 ALT-BR (Non-handed)	Side Mount Bracket 		●Material Steel ●Finish Yellow Zinc Chromate See P.606 for Details.

ALT-2V-220 PARTS SET DETAILS

No.	Qty S	Qty M	Qty L	Qty LL	Part Name	Dimensions	Description
1	2 pcs	3 pcs	3 pcs	4 pcs	Rail 	As below.	**Item Code : 190-113-867** **Item Name : AL127C-16** **Item Code : 190-113-868** **Item Name : AL127C-19** **Item Code : 190-113-869** **Item Name : AL127C-22** **Item Code : 190-113-870** **Item Name : AL127C-24** **Item Code : 190-113-871** **Item Name : AL127C-28** ●Material Steel ●Finish Clear Zinc Chromate
2	1 pc	1 pc	1 pc	1 pc	Connecting Plate 	As below.	**Item Code : 180-120-526** **Item Name : ALT55-S** **Item Code : 180-120-525** **Item Name : ALT55-M** **Item Code : 180-120-524** **Item Name : ALT55-L** **Item Code : 180-120-523** **Item Name : ALT55-LL** ●Material Aluminium Alloy ●Finish Anodized Silver
3	2 pcs	3 pcs	3 pcs	4 pcs	Concealed Hinge (Body) 		**Item Code : 160-079-412** **Item Name : H230-C26/0T** ●Material Steel ●Finish Nickel w/ Catch
4	2 pcs	3 pcs	3 pcs	4 pcs	Mounting Plate 		**Item Code : 160-120-535** **Item Name : ALT-MP** ●Material Steel ●Finish Nickel
5	1 pc	2 pcs	2 pcs	2 pcs	Catch 		**Item Code : 180-120-522** **Item Name : AL127-CH** ●Material PUR ●Finish Black

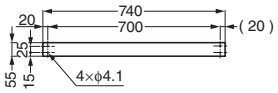
●Rail Dimensions



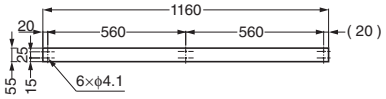
Item Name	Slide Length	Travel Length	Door Storage	A	B	C	D
AL127C-16	411.4	269.4	268	387.4	371.5	269.9	—
AL127C-19	487.6	345.6	344	463.6	447.7	346.1	231.8
AL127C-22	563.8	421.8	420	539.8	523.9	422.3	269.9
AL127C-24	614.6	472.6	471	590.6	574.7	473.1	295.3
AL127C-28	716.2	574.2	573	692.2	676.3	574.7	346.1

●Connecting Plate Dimensions

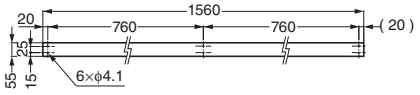
ALT55-S



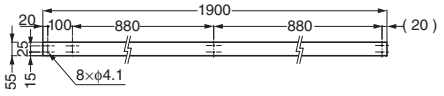
ALT55-M



ALT55-L

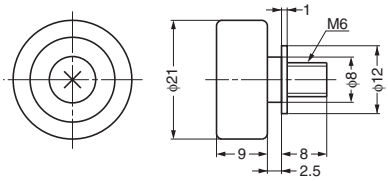
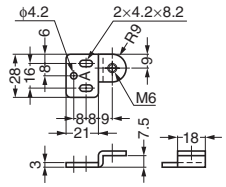
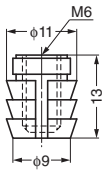
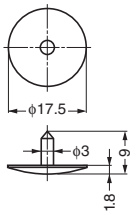
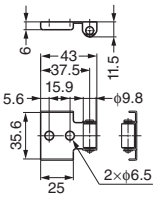


ALT55-LL



■Parts Set Details

[a] Item Code: 180-110-588 Item Name: ALT-2V-220SP
[b] Item Code: 180-110-589 Item Name: ALT-2V-220LP
[c] Item Code: 180-110-590 Item Name: ALT-2V-220LLP

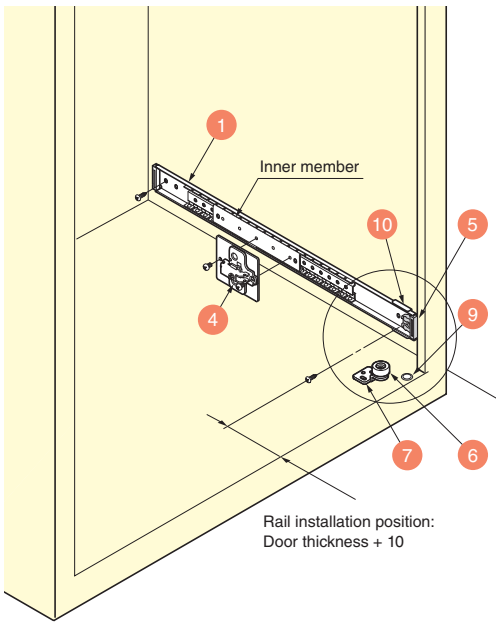
No.	Qty [a]	Qty [b]	Qty [c]	Part Name	Dimensions	Description
6	2 pcs	2 pcs	2 pcs	Roller 		**Item Code : 180-940-144** **Item Name : DU19-B4SBR** ●Material EPDM / Steel ●Finish Clear Zinc Chromate / White
7	1 pair (Left and Right)	1 pair (Left and Right)	1 pair (Left and Right)	Roller Bracket 	 Letter stamped indicates type (ALT-2V-AB shown).	**Item Code : 180-930-145** **Item Name : ALT-2V-AB** **Item Code : 180-930-146** **Item Name : ALT-2V-BB** ●Material Steel ●Finish Yellow Zinc Chromate
8	2 pcs	2 pcs	2 pcs	Insert 		**Item Code : 120-041-310** **Item Name : SC-107-13** ●Material PA ●Finish White
9	2 pcs	2 pcs	2 pcs	Slider 		**Item Code : 210-030-123** **Item Name : G-175** ●Material PE ●Finish Natural
10	2 pcs	3 pcs	4 pcs	Door Stopper 		**Item Code : 180-930-416** **Item Name : ALT-AD** ●Material UR / Steel ●Finish Clear Zinc Chromate / White

■Parts Included

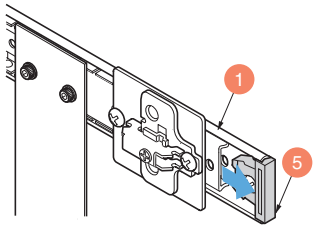
Hex key, Pan head screw M4×6, Binding head tapping screw, Countersunk head tapping screw, Hexagon top bolt M4×6

■Temporary Installation of Rail 1

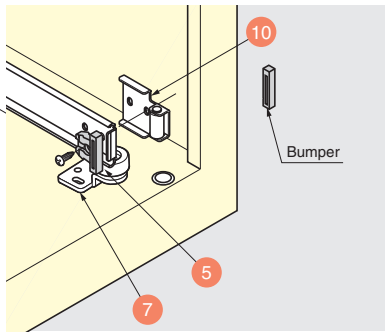
- Fix 1 onto 10.
- Mount 1 inside the cabinet (temporary).
- Fix 4 onto Inner member of 1.
- Attach 5 to 1 as per the drawing on the right.



Catch 5 (AL127-CH)

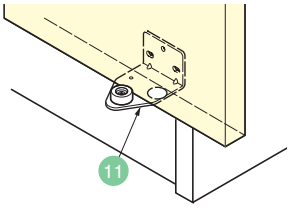


Installation of Catch 5



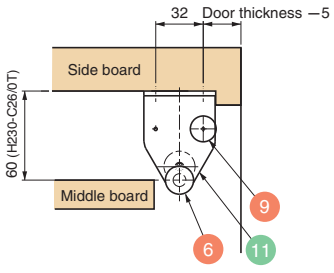
Remove bumpers from the lower two rails, and replace with the catches 5. If the number of rail is two (S type), replace on the lower rail only.

■Installation of Bracket 11



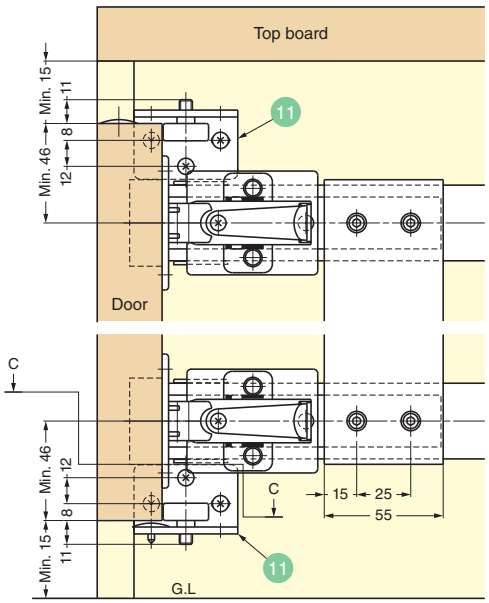
Installation of Slider 9

〔Section C-C〕



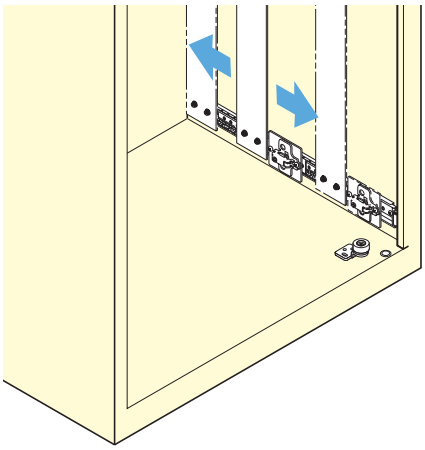
Right side installation

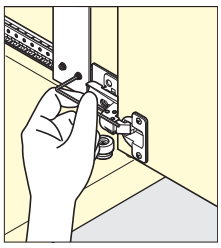
Installation dimensions of bracket 11



■Installation of Connecting Plate

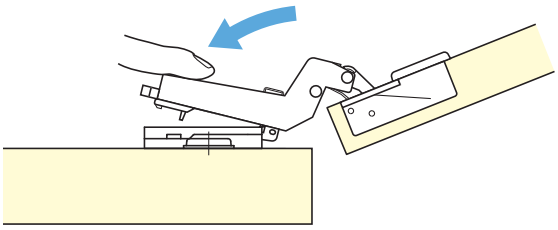
- Mount the connecting plate on the rails temporarily.
- Make sure that the connecting plate moves smoothly.
- Tighten the screws of the connecting plate.

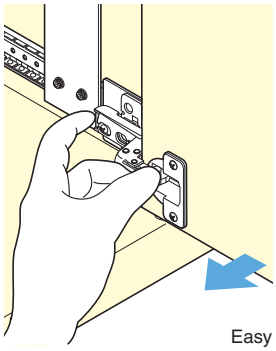




■Hanging Door

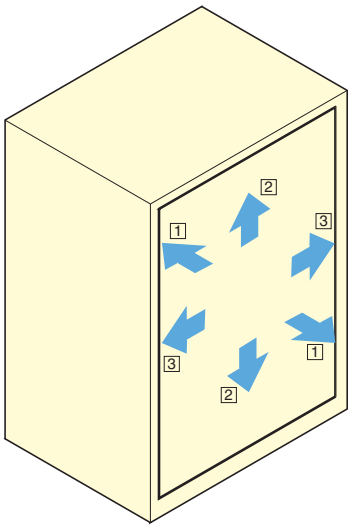
One-touch install



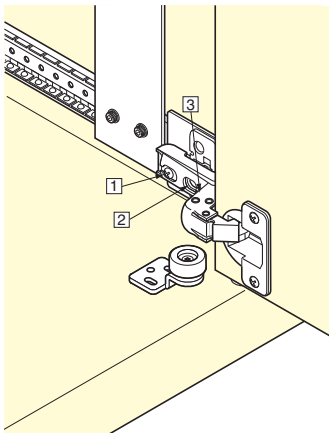


Easy to remove.

■Door Adjustment



1 Front/Back adjustment
2 Height adjustment
3 Left/Right adjustment



POCKET DOOR SYSTEM (OVERLAY)

STEEL

ALT-2V-5







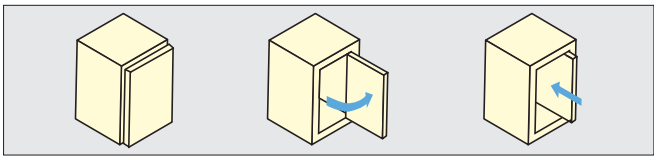
Item Name	ALT-2V-5S-16～28 S Type (2 Rails)	ALT-2V-5M16～28 M Type (3 Rails)	ALT-2V-5L-16～28 L Type (3 Rails)	ALT-2V-5LL-16～28 LL Type (4 Rails)
Door Width	Max. 560 mm	Max. 560 mm	Max. 560 mm	Max. 600 mm
Door Height	830～1060 mm	1250～1500 mm	1650～1840 mm	1990～2300 mm
Door Thickness	Max. 20 mm			
Door Weight	Max. 5 kg	Max. 6 kg	Max. 8 kg	Max. 10 kg

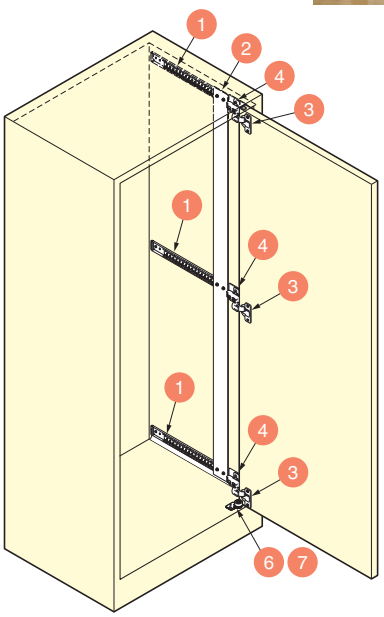
■Features

- Opening door is stored inside the cabinet.
- 5 mm overlay coverage in side board.
- One touch door installation & removal.

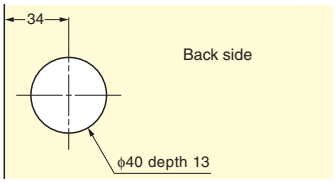
■Remarks

For wooden door only.

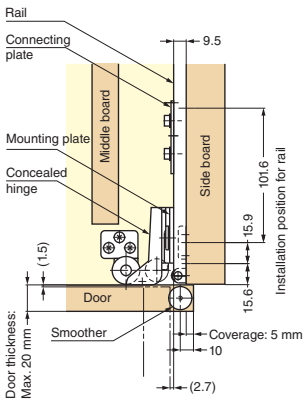


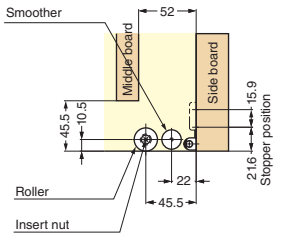


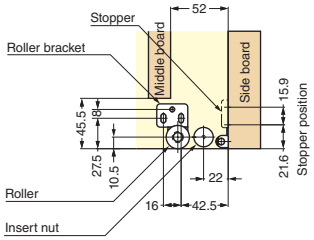
■Door Cut Out Dimensions



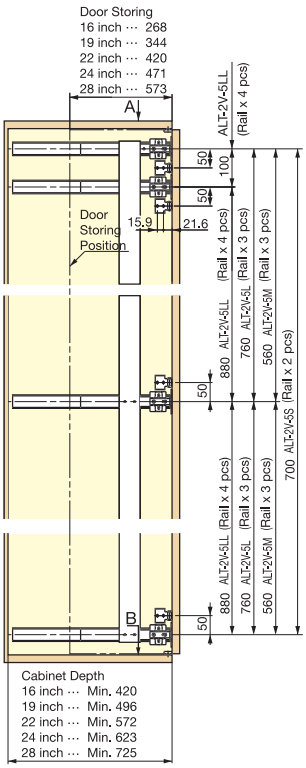
■Rail Installation and Clearance Dimensions

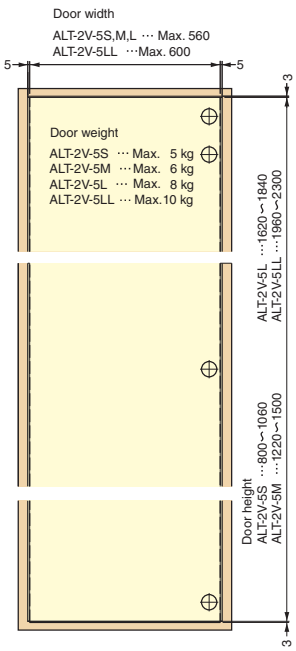






■Installation



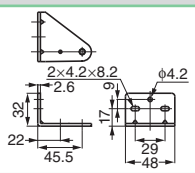


Parts Set (Per Door)

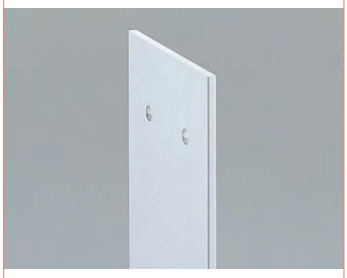
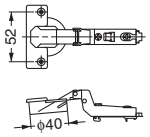
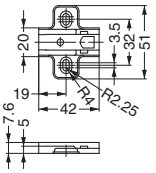
Necessary Parts

Type	Item Code	Item Name	Part Name									
			① Rail		② Connecting Plate		③ Concealed Hinge (Body)		④ Mounting Plate		⑤～⑪ Parts Set	
			 See P.610 for details.		 See P.610 for details.		 (w/ catch)					
			Item Name	Qty	Item Name	Qty	Item Name	Qty	Item Name	Qty	Item Name	Qty
S	180-120-910	ALT-2V-5S-16	AL127C-16	2 pcs	ALT55-S	1 pc	51-MH45-05-15	2 pcs	520401M5020	2 pcs	ALT-2V-5SP	1 set
	180-120-911	ALT-2V-5S-19	AL127C-19	2 pcs	ALT55-S	1 pc	51-MH45-05-15	2 pcs	520401M5020	2 pcs	ALT-2V-5SP	1 set
	180-120-912	ALT-2V-5S-22	AL127C-22	2 pcs	ALT55-S	1 pc	51-MH45-05-15	2 pcs	520401M5020	2 pcs	ALT-2V-5SP	1 set
	180-120-913	ALT-2V-5S-24	AL127C-24	2 pcs	ALT55-S	1 pc	51-MH45-05-15	2 pcs	520401M5020	2 pcs	ALT-2V-5SP	1 set
	180-120-914	ALT-2V-5S-28	AL127C-28	2 pcs	ALT55-S	1 pc	51-MH45-05-15	2 pcs	520401M5020	2 pcs	ALT-2V-5SP	1 set
M	180-120-915	ALT-2V-5M-16	AL127C-16	3 pcs	ALT55-M	1 pc	51-MH45-05-15	3 pcs	520401M5020	3 pcs	ALT-2V-5MP	1 set
	180-120-916	ALT-2V-5M-19	AL127C-19	3 pcs	ALT55-M	1 pc	51-MH45-05-15	3 pcs	520401M5020	3 pcs	ALT-2V-5MP	1 set
	180-120-917	ALT-2V-5M-22	AL127C-22	3 pcs	ALT55-M	1 pc	51-MH45-05-15	3 pcs	520401M5020	3 pcs	ALT-2V-5MP	1 set
	180-120-918	ALT-2V-5M-24	AL127C-24	3 pcs	ALT55-M	1 pc	51-MH45-05-15	3 pcs	520401M5020	3 pcs	ALT-2V-5MP	1 set
	180-120-919	ALT-2V-5M-28	AL127C-28	3 pcs	ALT55-M	1 pc	51-MH45-05-15	3 pcs	520401M5020	3 pcs	ALT-2V-5MP	1 set
L	180-120-920	ALT-2V-5L-16	AL127C-16	3 pcs	ALT55-L	1 pc	51-MH45-05-15	3 pcs	520401M5020	3 pcs	ALT-2V-5LP	1 set
	180-120-921	ALT-2V-5L-19	AL127C-19	3 pcs	ALT55-L	1 pc	51-MH45-05-15	3 pcs	520401M5020	3 pcs	ALT-2V-5LP	1 set
	180-120-922	ALT-2V-5L-22	AL127C-22	3 pcs	ALT55-L	1 pc	51-MH45-05-15	3 pcs	520401M5020	3 pcs	ALT-2V-5LP	1 set
	180-120-923	ALT-2V-5L-24	AL127C-24	3 pcs	ALT55-L	1 pc	51-MH45-05-15	3 pcs	520401M5020	3 pcs	ALT-2V-5LP	1 set
	180-120-924	ALT-2V-5L-28	AL127C-28	3 pcs	ALT55-L	1 pc	51-MH45-05-15	3 pcs	520401M5020	3 pcs	ALT-2V-5LP	1 set
LL	180-120-925	ALT-2V-5LL-16	AL127C-16	4 pcs	ALT55-LL	1 pc	51-MH45-05-15	4 pcs	520401M5020	4 pcs	ALT-2V-5LLP	1 set
	180-120-926	ALT-2V-5LL-19	AL127C-19	4 pcs	ALT55-LL	1 pc	51-MH45-05-15	4 pcs	520401M5020	4 pcs	ALT-2V-5LLP	1 set
	180-120-927	ALT-2V-5LL-22	AL127C-22	4 pcs	ALT55-LL	1 pc	51-MH45-05-15	4 pcs	520401M5020	4 pcs	ALT-2V-5LLP	1 set
	180-120-928	ALT-2V-5LL-24	AL127C-24	4 pcs	ALT55-LL	1 pc	51-MH45-05-15	4 pcs	520401M5020	4 pcs	ALT-2V-5LLP	1 set
	180-120-929	ALT-2V-5LL-28	AL127C-28	4 pcs	ALT55-LL	1 pc	51-MH45-05-15	4 pcs	520401M5020	4 pcs	ALT-2V-5LLP	1 set

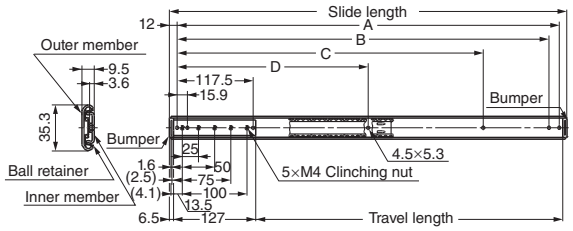
Optional Parts

No.	Installation Position	Qty	Item Code	Part Name	Dimensions	Description
⑫	For Lower Right & Upper Left	1 pc	180-120-342 Item Name ALT-2V5BR1	Side Mount Bracket 		●Material Steel ●Finish Yellow Zinc Chromate See P.612 for details.
⑬	For Upper Right & Lower Left	1 pc	180-120-343 Item Name ALT-2V5BR2			

ALT-2V-5 PARTS SET DETAILS

No.	Qty S	Qty M	Qty L	Qty LL	Part Name	Dimensions	Description
1	2 pcs	3 pcs	3 pcs	4 pcs	Rail 	See Rail Dimensions.	**Item Code : 190-113-867** **Item Name : AL127C-16** **Item Code : 190-113-868** **Item Name : AL127C-19** **Item Code : 190-113-869** **Item Name : AL127C-22** **Item Code : 190-113-870** **Item Name : AL127C-24** **Item Code : 190-113-871** **Item Name : AL127C-28** ●Material Steel ●Finish Clear Zinc Chromate
2	1 pc	1 pc	1 pc	1 pc	Connecting Plate 	See Connecting Plate Dimensions.	**Item Code : 180-120-526** **Item Name : ALT55-S** **Item Code : 180-120-525** **Item Name : ALT55-M** **Item Code : 180-120-524** **Item Name : ALT55-L** **Item Code : 180-120-523** **Item Name : ALT55-LL** ●Material Aluminium Alloy ●Finish Plain
3	2 pcs	3 pcs	3 pcs	4 pcs	Concealed Hinge (Body)  		**Item Code : 160-070-006** **Item Name : 51-MH45-05-15** ●Material Steel ●Finish Nickel w/ Catch
4	2 pcs	3 pcs	3 pcs	4 pcs	Mounting Plate  		**Item Code : 160-076-076** **Item Name : 520401M5020** ●Material Steel ●Finish Nickel

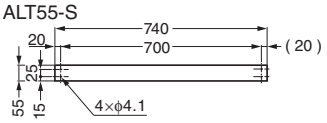
●Rail Dimensions



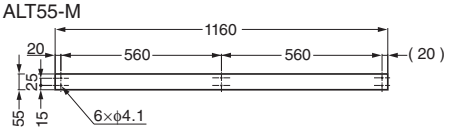
Item Name	Slide Length	Travel Length	Door Storage	A	B	C	D
AL127C-16	411.4	269.4	268	387.4	371.5	269.9	—
AL127C-19	487.6	345.6	344	463.6	447.7	346.1	231.8
AL127C-22	563.8	421.8	420	539.8	523.9	422.3	269.9
AL127C-24	614.6	472.6	471	590.6	574.7	473.1	295.3
AL127C-28	716.2	574.2	573	692.2	676.3	574.7	346.1

●Connecting Plate Dimensions

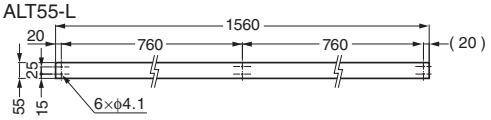
ALT55-S



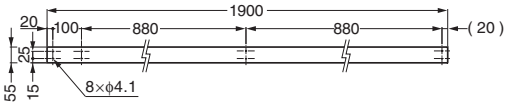
ALT55-M



ALT55-L

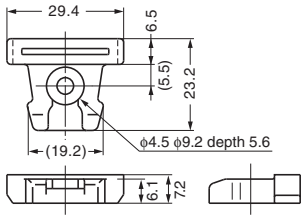
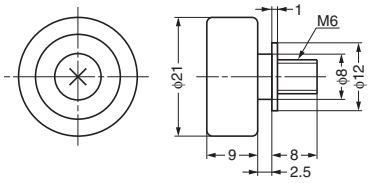
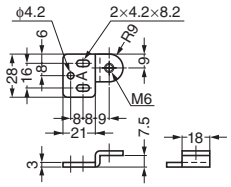
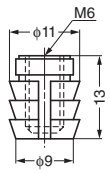
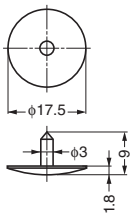
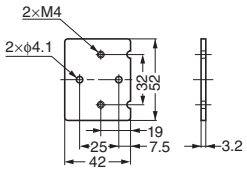
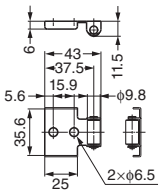


ALT55-LL



■Parts Set Details

[a] Item Code: 180-120-344 Item Name: ALT-2V-5SP
[b] Item Code: 180-120-345 Item Name: ALT-2V-5MP
[c] Item Code: 180-120-346 Item Name: ALT-2V-5LP
[d] Item Code: 180-120-347 Item Name: ALT-2V-5LLP

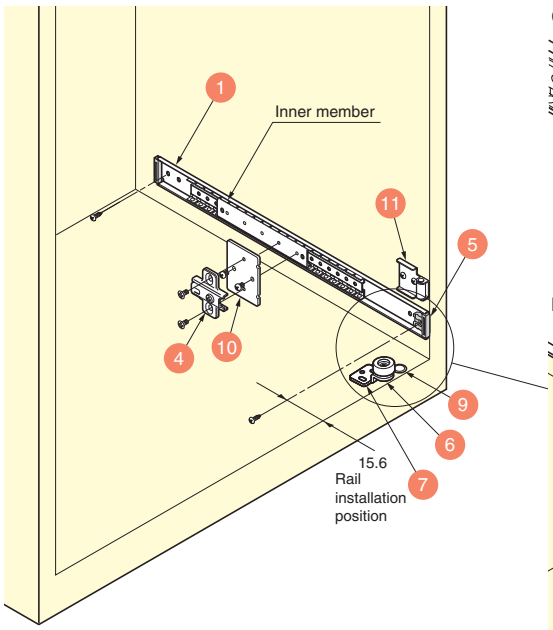
No.	Qty [a]	Qty [b]	Qty [c]	Qty [d]	Part Name	Dimensions	Description
5	1 pc	2 pcs	2 pcs	2 pcs	Catch 		Item Code : 180-120-522 Item Name : AL127-CH ●Material PUR ●Finish Black
6	2 pcs	2 pcs	2 pcs	2 pcs	Roller 		Item Code : 180-940-144 Item Name : DU19-B4SBR ●Material EPDM / Steel ●Finish Clear Zinc Chromate / White
7	1 pair (Left and Right)	1 pair (Left and Right)	1 pair (Left and Right)	1 pair (Left and Right)	Roller Bracket 	 Letter stamped indicates type (ALT-2V-AB shown).	Item Code : 180-930-145 Item Name : ALT-2V-AB Item Code : 180-930-146 Item Name : ALT-2V-BB ●Material Steel ●Finish Yellow Zinc Chromate
8	2 pcs	2 pcs	2 pcs	2 pcs	Insert 		Item Code : 120-041-310 Item Name : SC-107-13 ●Material PA ●Finish White
9	2 pcs	2 pcs	2 pcs	2 pcs	Slider 		Item Code : 210-030-123 Item Name : G-175 ●Material PE ●Finish Natural
10	2 pcs	3 pcs	3 pcs	4 pcs	Bracket 		Item Code : 180-920-308 Item Name : ALT-2V5P ●Material Steel ●Finish Yellow Zinc Chromate
11	2 pcs	3 pcs	3 pcs	4 pcs	Door Stopper 		Item Code : 180-930-416 Item Name : ALT-AD ●Material UR / Steel ●Finish Clear Zinc Chromate / White

■Parts Included

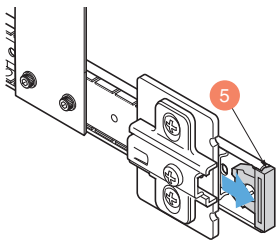
Hex key, Pan head screw M4×6, Binding head tapping screw, Countersunk head tapping screw, Hexagon top bolt M4×6, Countersunk head screw M4×6

■Temporary Installation of Rail 1

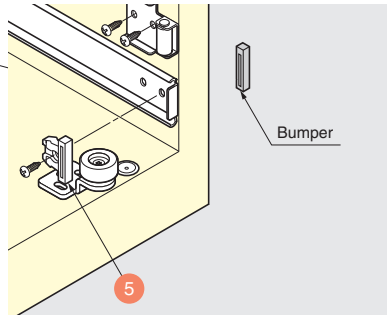
- Fix 11.
- Fix 1 with 5.
- Fix 10 and 4 onto Inner member of 1.
- Attach 5 to 1 as per the drawing on the right.



Catch 5 (AL127-CH)

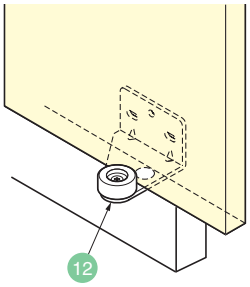


Installation of Catch 5



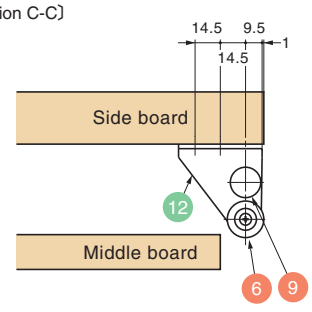
Remove the bumpers from the lower two rails, and replace with the catches 5. If the number of rail is two (S type), replace on the lower rail only.

■Installation of Side Mount Bracket 12 13



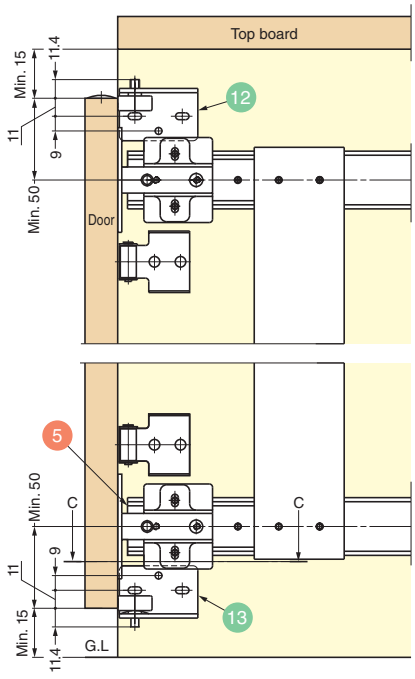
Installation of Slider 9

〔Section C-C〕



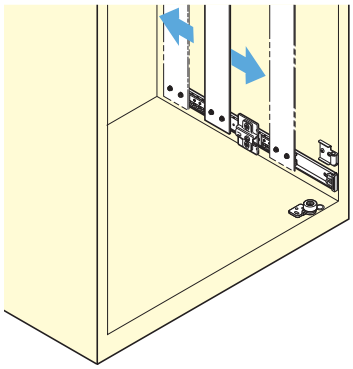
Right side installation

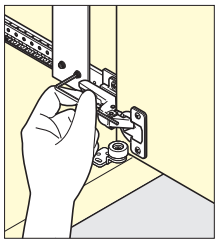
Installation dimensions of side mount bracket 12 13



■Installation of Connecting Plate 2

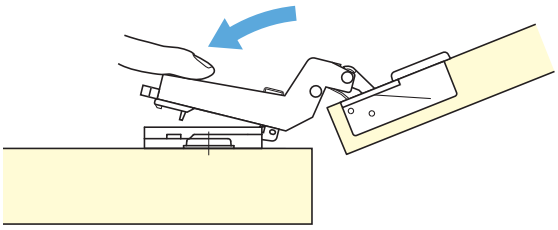
- Mount the connecting plate on the rails temporarily.
- Make sure that the connecting plate moves smoothly.
- Tighten the screws of the connecting plate.

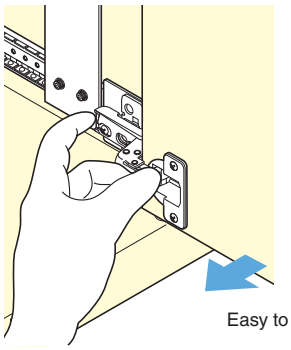




■Hanging Door

One-touch install

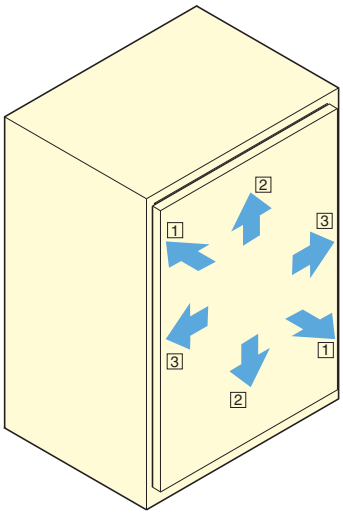


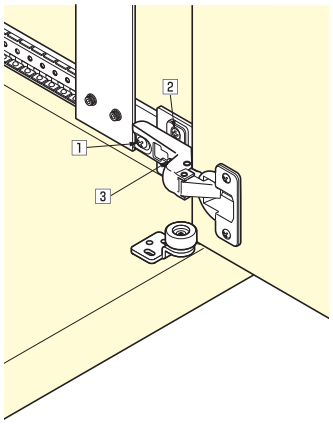


Easy to remove.

■Door Adjustment

1 Front/Back adjustment
2 Height adjustment
3 Left/Right adjustment

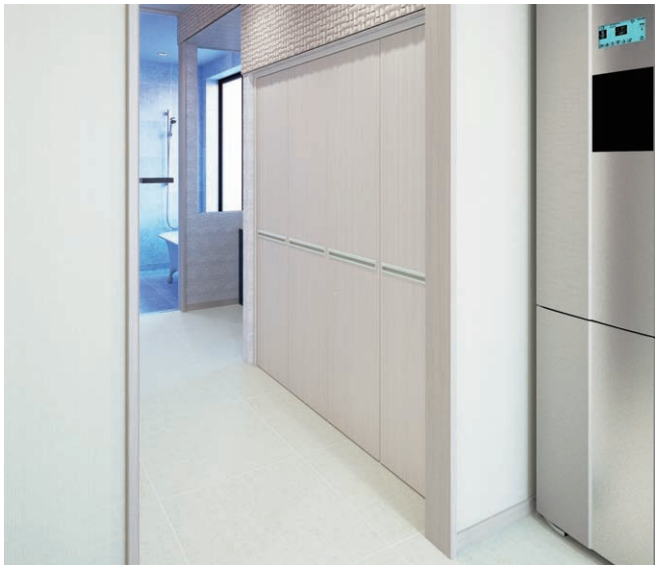




FOLDING POCKET DOOR SYSTEM (INSET)

STEEL **ALT-F**

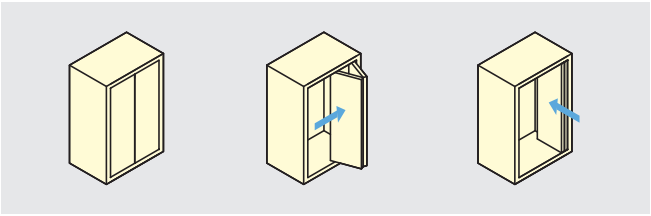




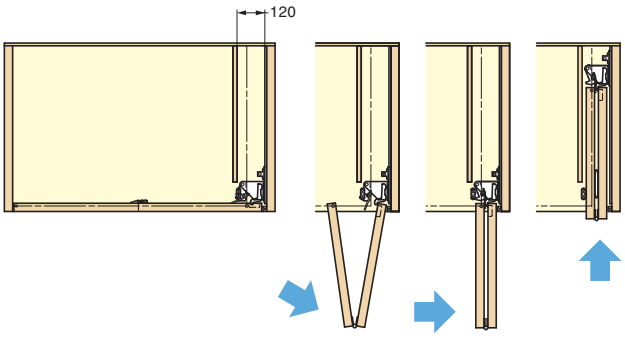
Door Width	Max. 450 mm
Door Height	Max. 1830 mm
Door Thickness	23 ～ 30 mm
Door Weight	Max. 10 kg/Door

■Features

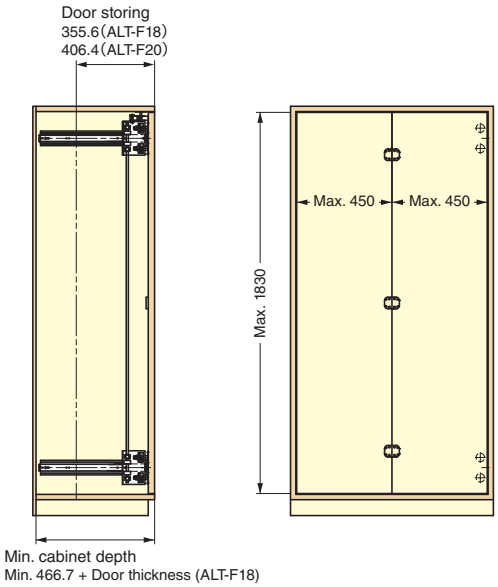
Folding door is stored inside the cabinet.



■Top View

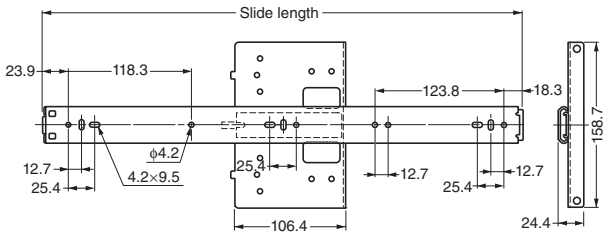


■Installation



Min. cabinet depth
Min. 466.7 + Door thickness (ALT-F18)
Min. 517.5 + Door thickness (ALT-F20)

■Rail ① Dimensions



Item Name	Opening	Rail Length	Door Storing	Cabinet Depth
ALT-F18L	Left Opening	460.4	355.6	Min. 466.7 + Door Thickness
ALT-F18R	Right Opening	460.4	355.6	Min. 466.7 + Door Thickness
ALT-F20L	Left Opening	511.2	406.4	Min. 517.5 + Door Thickness
ALT-F20R	Right Opening	511.2	406.4	Min. 517.5 + Door Thickness

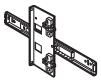
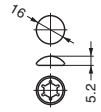
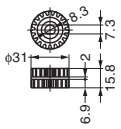
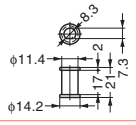
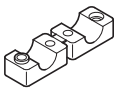
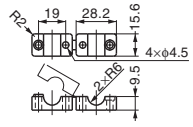
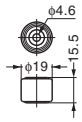
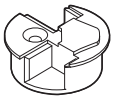
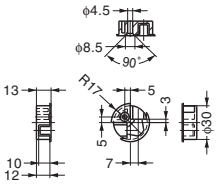
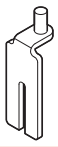
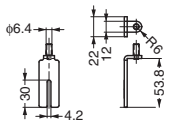
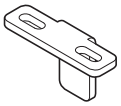
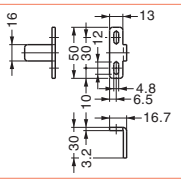
Parts Set

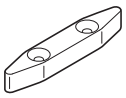
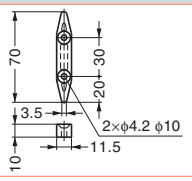
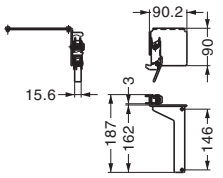
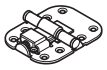
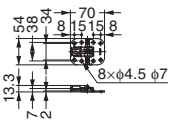
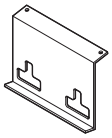
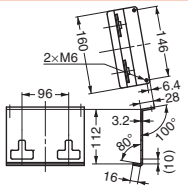
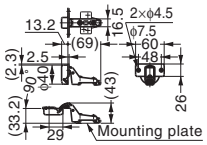
Necessary Parts

Please refer to "Qty a ~d" for parts included in each set.

Set Name	Item Code	Item Name
a Left Opening (Door Storing 355.6)	180-034-183	ALT-F18L
b Right Opening (Door Storing 355.6)	180-034-184	ALT-F18R
c Left Opening (Door Storing 406.4)	180-034-185	ALT-F20L
d Right Opening (Door Storing 406.4)	180-034-186	ALT-F20R

Parts Included

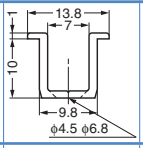
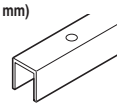
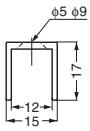
No.	Qty	Part Name	Dimensions	Description
1	2 pcs	Rail 	See P.614	●Material Steel ●Finish Black Chromate
2	2 pcs	Rack 	—	●Material ABS ●Finish Black
3	1 pc	Cap 		●Material Steel ●Finish Black Chromate
4	4 pcs	Gear 		●Material POM ●Finish Black
5	4 pcs	Bush 		●Material POM ●Finish Black
6	4 pcs	Stationary Block 		●Material POM ●Finish Black Screw : Binding Head Self Tapping Screw UNC8-32
7	2 pcs	 Not for ALT-F. This part is not used.		●Material PA ●Finish Black Screw : Countersunk Head Tapping Screw 4.2×32
8	1 pc	Upper Rail Joint 		●Material POM ●Finish White
9	1 pc	End Guide 		●Material Steel (SPCC) / POM ●Finish Yellow Zinc Chromate / Natural
10	1 pc	Angle Stopper 		●Material Steel (SPCC) ●Finish Nickel

No.	Qty	Part Name	Dimensions	Description
11	1 pc	Inner Guide 		●Material POM ●Finish White
12	1 pc	Interlock 	 Right type shown.	●Material Steel / POM ●Finish Black / White
13	3 pcs	Centre Hinge 		●Material Steel ●Finish Black Screw : Countersunk Head Tapping Screw 3.5×16
14	1 pc	Hinge Cover Bracket 		●Material Steel (SPCC) ●Finish Black Paint
15	1 set (2 pcs)	Hinge Set 		Item Code : 180-026-432 Item Name : ALT-F-8086HKEZX ●Material Steel / Zinc Alloy ●Finish Yellow Zinc Chromate / Black

Rail

Necessary Parts

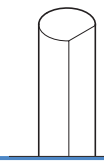
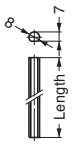
1 pc is necessary for a pair of doors.

No.	Qty	Item Code	Part Name	Dimensions	Description
16	1 pc	250-017-148 Item Name FD30-HBR 1820SIL	Upper Rail (1820 mm)  Bore Pitch : Approx. 300 mm Pitch End : Approx. 30 mm		●Material Aluminium ●Finish Anodized Silver
17	1 pc	250-019-971 Item Name FD30-HBRT 1500SIL	Bottom Guide Rail (1500 mm) 		●Material Aluminium ●Finish Anodized Silver

Shaft

Necessary Parts

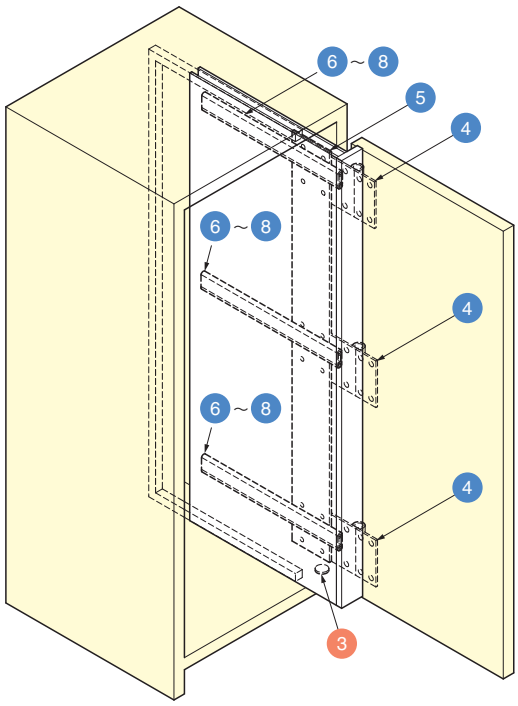
1 pc is necessary for a pair of doors.

No.	Length	Qty	Item Code	Part Name	Dimensions	Description
18	902±13 mm	1 pc	180-121-047 Item Name 29475-36	Shaft 		●Material Steel ●Finish Black Chromate
19	1207±13 mm	1 pc	180-121-048 Item Name 29475-48			
20	1816±13 mm	1 pc	180-121-049 Item Name 29475-72			

POCKET DOOR SYSTEM (INSET)

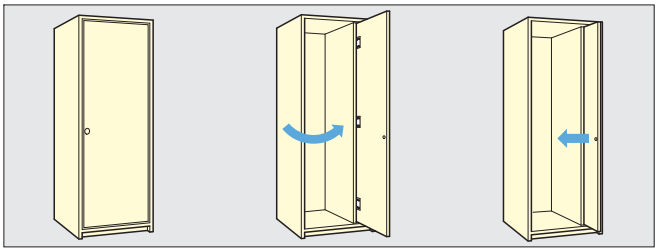
STEEL **TSSL-2V**

Door Width	Max. 800 mm
Door Height	1760～2300 mm
Door Weight	Max. 20 kg/Door

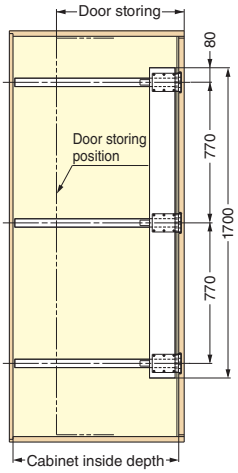


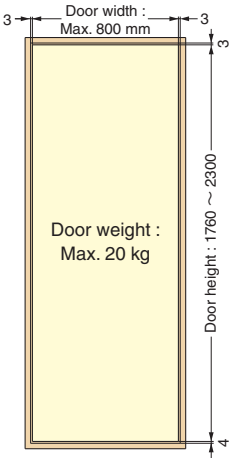
■Features

- Opening door is stored inside the cabinet.
- One touch door installation & removal.

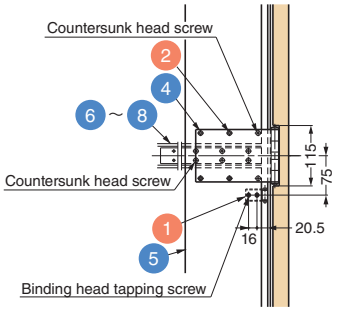


■Installation

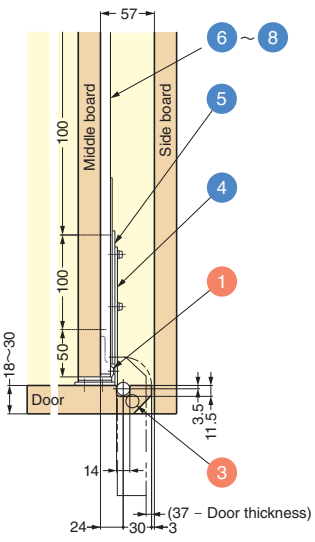




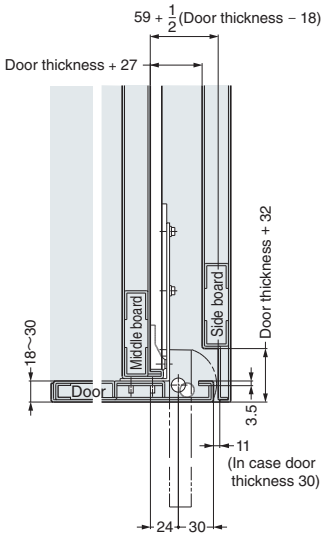
Side view (Wooden door)



Top view (Wooden door)

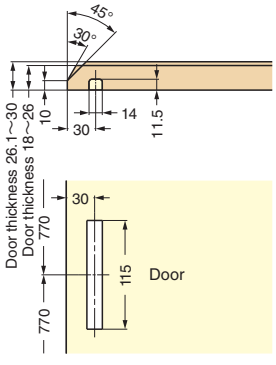


Top view (Steel door)

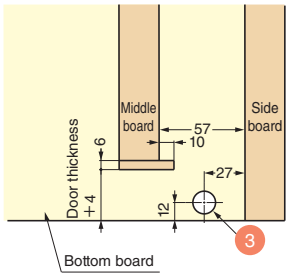


■Cut Out Dimensions

Door



Cabinet



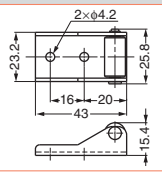
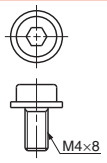
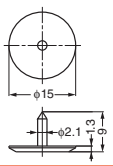
●Necessary Parts ····· Parts Set + Hinge + Connecting Plate + Rails

Parts Set (Per Door)

Necessary Parts

Type	Item Code	Item Name
a 600 mm Rails	180-110-575	TSSL-2VD600
b 800 mm Rails	180-110-576	TSSL-2VD800
c 900 mm Rails	180-110-577	TSSL-2VD900

Parts Set

No.	Qty a	Qty b	Qty c	Part Name	Dimensions	Description
1	3 pcs	3 pcs	3 pcs	Door Stopper 		●Material Steel ●Finish Clear Zinc Chromate
2	12 pcs	12 pcs	12 pcs	Bolt 		●Material Steel ●Finish Yellow Zinc Chromate
3	1 pc	1 pc	1 pc	Slider 		Item Code : 210-030-122 Item Name : F-15 ●Material POM ●Finish Natural

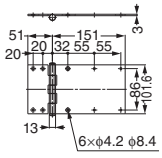
■Parts Included

Binding head tapping screw 3.5×15····· a 36 pcs, b 48 pcs, c 54 pcs
Countersunk head screw····· 24 pcs

Hinge

Necessary Parts

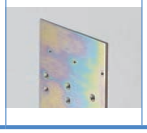
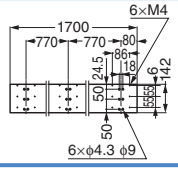
3 pcs are necessary for 1 door.

No.	Qty	Item Code	Part Name	Dimensions	Description
4	1 pc	180-110-562 TSSL-2VH	Hinge 		●Material Steel ●Finish White

Connecting Plate

Necessary Parts

1 pc is necessary for 1 door.

No.	Qty	Item Code	Part Name	Dimensions	Description
5	1 pc	180-110-563 TSSL-2VP	Connecting Plate 		●Material Steel ●Finish Yellow Zinc Chromate

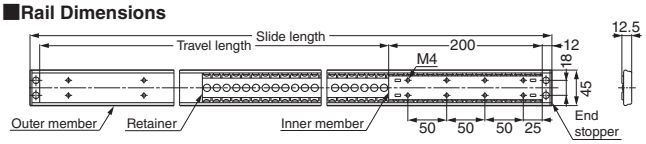
Rail

Necessary Parts

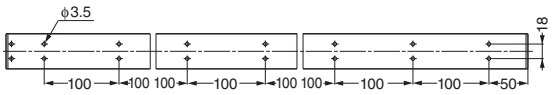
3 pcs are necessary for 1 door.

No.	Type	Qty	Item Code	Part Name	Description
6	Slide Length 600 mm	1 pc	190-110-570 TSSL-600SV	Rail 	●Material SUS304
7	Slide Length 800 mm	1 pc	190-110-571 TSSL-800SV		
8	Slide Length 900 mm	1 pc	190-110-572 TSSL-900SV		

■Rail Dimensions



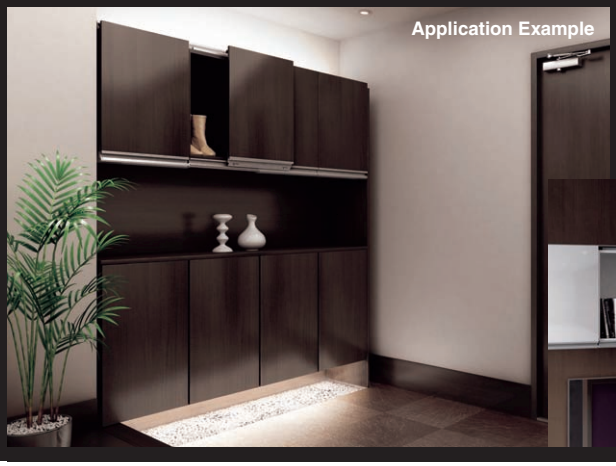
<Bore Pitch>



Item Name	Slide Length	Travel Length	Bore Qty N	Door Storage	Depth Inside Cabinet
TSSL-600SV	600	376	12	402.5+Door thickness	Min. 620
TSSL-800SV	800	576	16	602.5+Door thickness	Min. 820
TSSL-900SV	900	676	18	702.5+Door thickness	Min. 920

MULTIPLE MOTION DOOR SYSTEM (FOR WOOD PANELS)

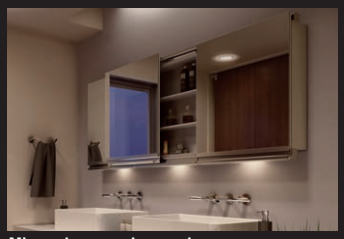
STEEL



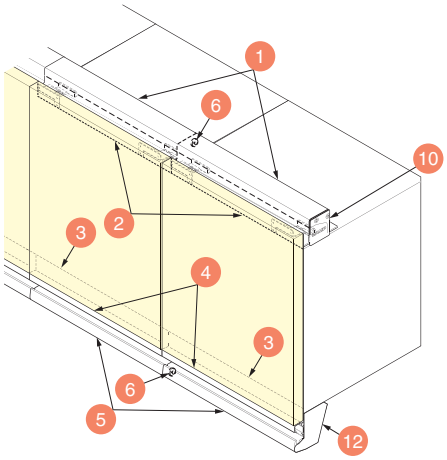
Multiple Motion Door System

MultiMo FLAT®

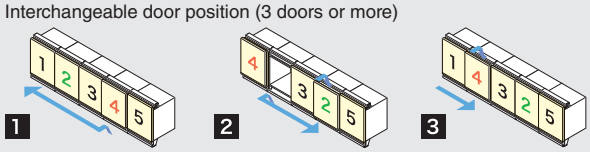




Mirror door can be used.



Interchangeable door position (3 doors or more)



Door Width	297 mm, 447 mm, 597 mm, 897 mm
Door Height	300～900 mm
Door Thickness	15～23 mm
Door Weight	1.5～6.8 kg (Per One Door) ※
Door Type	Connecting Multiple Sliding Units (Overlay)

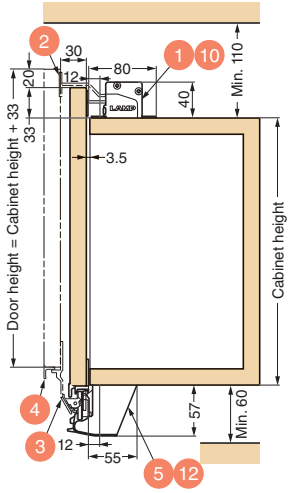
※Including parts.

■Features

- Flush Door Surface
  All doors will be "flush" against others when in closed position.
  Provides sleek appearance compared to ordinary off-set sliding doors.
- Interchangeable Door Position
  Opened doors can slide and close at any unoccupied position.
- Multiple Doors in One Plane
  Multiple doors can be added by connecting multiple sliding units.
- Soft & Smooth Movement
  Equipped with damper for soft and smooth closing movement.
- Minimal Hardware Space
  Ideal for shallow cabinets, hardware requires only 100 mm of depth.

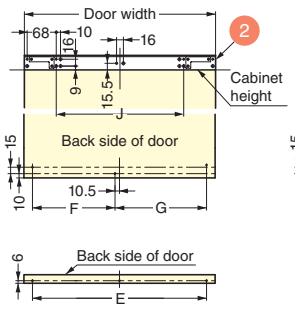
■Remarks

- Recommended using 3 or more doors for interchangeable door.
- Maximum door height is twice of door width.
- Glass door version is also available (P.620).
  (Wooden door and glass door models are not compatible within the same cabinet.)

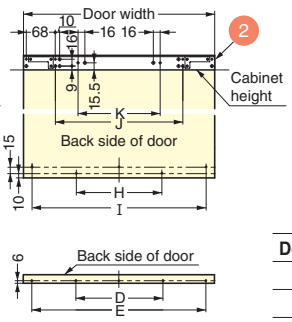


■Cut Out Dimensions for Door Brackets ②, Door Sliding Profile ③, Door Handle ④

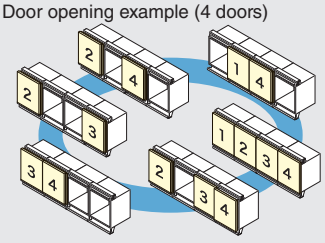
●Door width 297 mm, 447 mm



●Door width 597 mm, 897 mm



Door opening example (4 doors)



Provides various opening patterns.
By adding more doors, the more opening patterns will be possible.

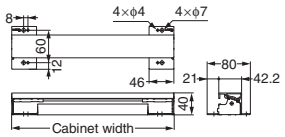
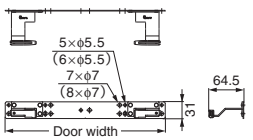
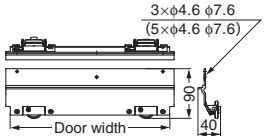
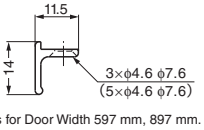
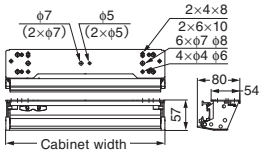
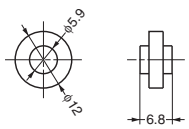
Door Width	D	E	F	G	H	I	J	K
297	—	257	118	139	—	—	148	—
447	—	407	193	214	—	—	298	—
597	278.5	557	—	—	300	557	448	200
897	428.5	857	—	—	400	857	748	300

Parts Set (Per Door)

Necessary Parts
Same qty as door is necessary. Please order same model for a cabinet.

Set Name	Item Code	Item Name
a Parts Set (Door Width 297 mm, Door Weight 1.5~2.4 kg)	250-121-211	MFS-W300/S2
b Parts Set (Door Width 447 mm, Door Weight 1.4~2.3 kg)	250-121-212	MFS-W450/S2
c Parts Set (Door Width 447 mm, Door Weight 2.4~3.3 kg)	250-121-213	MFS-W450/S3
d Parts Set (Door Width 597 mm, Door Weight 2.2~3.1 kg)	250-121-214	MFS-W600/S3
e Parts Set (Door Width 597 mm, Door Weight 3.2~4.1 kg)	250-121-215	MFS-W600/S4
f Parts Set (Door Width 597 mm, Door Weight 4.2~5.1 kg)	250-121-216	MFS-W600/S5
g Parts Set (Door Width 897 mm, Door Weight 3.9~4.8 kg)	250-121-217	MFS-W900/S5
h Parts Set (Door Width 897 mm, Door Weight 4.9~5.8 kg)	250-121-218	MFS-W900/S6
i Parts Set (Door Width 897 mm, Door Weight 5.9~6.8 kg)	250-121-219	MFS-W900/S7

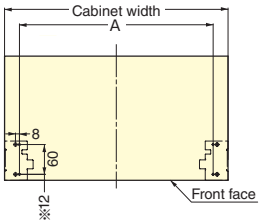
Parts Included

No.	Qty	Item Code	Dimensions	Description
1	1 pc	Upper Rail		●Material Aluminium Alloy /Steel ●Finish Anodized /Clear Zinc Chromate
2	1 pc	Door Brackets	 ※ ( ) is for Door Width 597 mm, 897 mm.	●Material Steel/Elastomer (TPE) ●Finish Clear Zinc Chromate
3	1 pc	Door Sliding Profile	 ※ ( ) is for Door Width 597 mm, 897 mm.	●Material Aluminium Alloy /Steel /Polyacetal (POM) /Polyurethane (PUR) ●Finish Anodized /Clear Zinc Chromate
4	1 pc	Door Handle	 ※ ( ) is for Door Width 597 mm, 897 mm.	●Material Aluminium Alloy ●Finish Anodized
5	1 pc	Lower Rail	 ※( ) is for Door Width 597 mm, 897 mm.	●Material Aluminium Alloy /Steel /Polyacetal (POM) ●Finish Anodized /Clear Zinc Chromate
6	2 pcs	Connecting Pin		●Material Stainless Steel
7	11 pcs (12 pcs)	Binding Head Tapping Screw 3.5×15	–	–
8	13 pcs (18 pcs)	Raised Countersunk Head Tapping Screw 3.5×14	–	–

Qty: ( ) is for MFS-W600/S3, MFS-W600/S4, MFS-W600/S5, MFS-W900/S5, MFS-W900/S6 and MFS-W900/S7.

■Mounting Application for Upper Rail 1

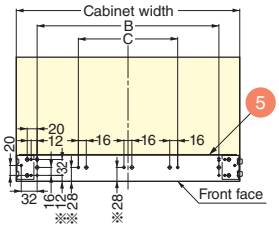
●Out side of top panel



Cabinet Width	A
300	240
450	390
600	540
900	840

■Mounting Application for Lower Rail 5

●Out side of bottom panel



Cabinet Width	B	C
300	216	–
450	366	–
600	516	200
900	816	300

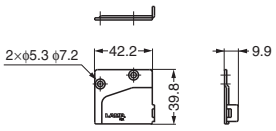
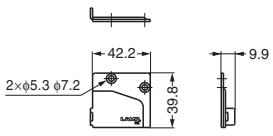
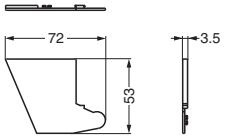
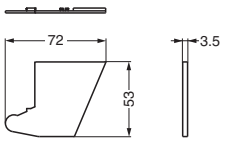
※When using gasket thicker than 3 mm, subtract [gasket thickness - 3 mm] from the marked dimensions.

End Cap Set (Per Door)

Necessary Parts
1 set is necessary for 1 unit.

Set Name	Item Code	Item Name
End Cap Set	250-129-555	MFS-ED

Parts Included

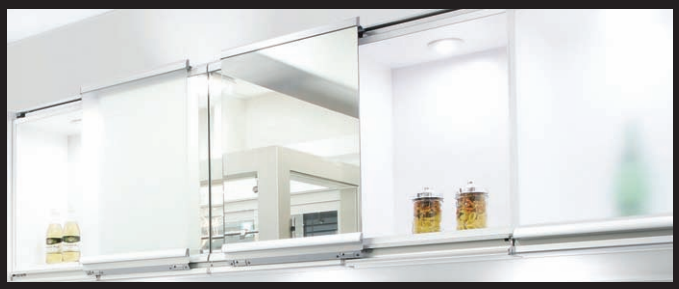
No.	Qty	Item Code	Dimensions	Description
9	1 pc	Connecting Plate		●Material Steel ●Finish Grey
10	1 pc	Installation Template		●Material Steel ●Finish Grey
11	1 pc	Left Upper Rail End Cap		●Material ABS ●Finish Grey
12	1 pc	Right Upper Rail End Cap		●Material ABS ●Finish Grey
13	4 pcs	Raised Countersunk Head Tapping Screw 3.5×12 (Stainless Steel)	–	–

MULTIPLE MOTION DOOR SYSTEM (FOR GLASS PANELS)

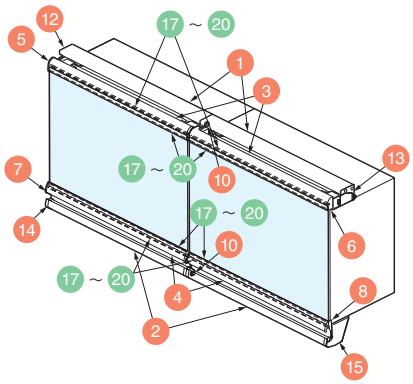


Multiple Motion Door System

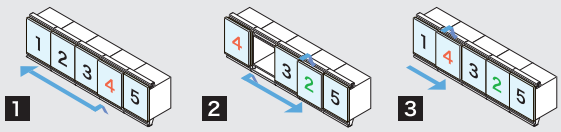
MultiMo FLAT®



Mirror door can be used.



Interchangeable door position (3 doors or more)



Glass Width	295, 445, 595, ※895 mm
Glass Height	300～900 mm
Glass Thickness	5 mm
Door Weight	1.5～6.7 kg (Per One Door)
Door Type	☐ Connecting Multiple Sliding Units (Overlay)

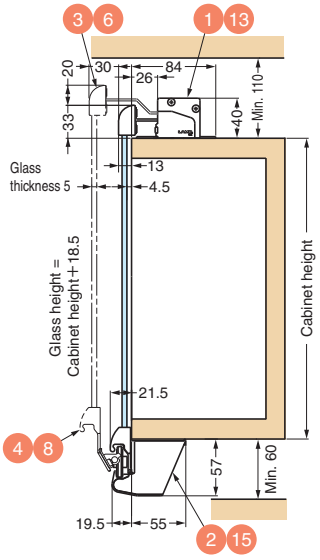
※When glass width is 895 mm, glass height is Max. 600 mm.

■Features

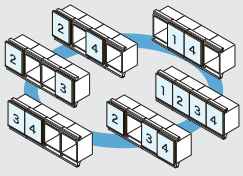
- ●Flush Door Surface
  All doors will be "flush" against others when in closed position.
  Provides sleek appearance compared to ordinary off-set sliding doors.
- ●Interchangeable Door Position
  Opened doors can slide and close at any unoccupied position.
- ●Multiple Doors in One Line
  Multiple doors can be added by connecting multiple sliding units.
- ●Soft & Smooth Movement
  Equipped with damper for soft and smooth closing movement.
- ●Minimal Hardware Space
  Ideal for shallow cabinets, hardware requires only 100 mm of depth.

■Remarks

- ●Recommended using 3 or more doors for interchangeable door feature.
- ●Maximum door height is twice of door width.
- ●Wooden door version is also available (P.618).
  (Cannot be used together with wooden version on one cabinet.)



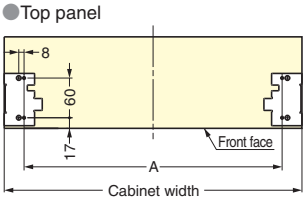
Door opening example (4 doors)



Provides various opening patterns. By adding more doors, the more opening patterns will be possible.

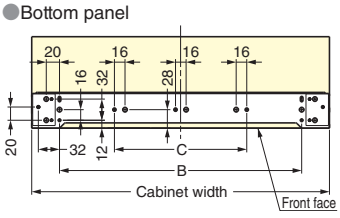
■Mounting Application for Upper Rail ①

●Top panel



■Mounting Application for Lower Rail ②

●Bottom panel



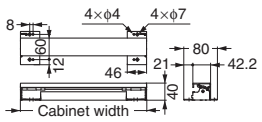
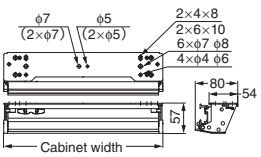
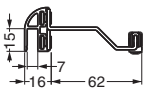
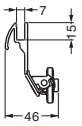
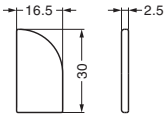
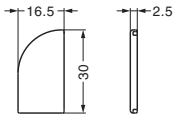
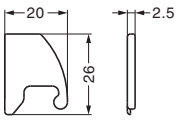
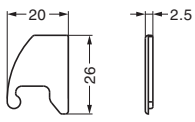
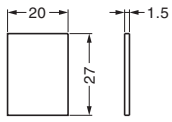
Cabinet Width	A	B	C
300	240	216	—
450	390	366	—
600	540	516	200
900	840	816	300

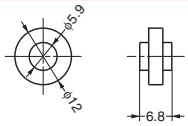
Parts Set (Per Door)

Necessary Parts
Same qty as door is necessary. Please order same model for a cabinet.

Set Name	Item Code	Item Name
a Parts Set (Glass Width 295 mm, Glass Weight 1.5~2.4 kg)	250-014-166	MFS-G300/S2
b Parts Set (Glass Width 445 mm, Glass Weight 1.3~2.2 kg)	250-014-167	MFS-G450/S2
c Parts Set (Glass Width 445 mm, Glass Weight 2.3~3.2 kg)	250-014-168	MFS-G450/S3
d Parts Set (Glass Width 595 mm, Glass Weight 2.1~3.0 kg)	250-014-169	MFS-G600/S3
e Parts Set (Glass Width 595 mm, Glass Weight 3.1~4.0 kg)	250-014-170	MFS-G600/S4
f Parts Set (Glass Width 595 mm, Glass Weight 4.1~5.0 kg)	250-014-171	MFS-G600/S5
g Parts Set (Glass Width 895 mm, Glass Weight 3.8~4.7 kg)	★250-014-172	MFS-G900/S5
h Parts Set (Glass Width 895 mm, Glass Weight 4.8~5.7 kg)	★250-014-173	MFS-G900/S6
i Parts Set (Glass Width 895 mm, Glass Weight 5.8~6.7 kg)	★250-014-174	MFS-G900/S7

Parts Included

No.	Qty	Part Name	Dimensions	Description
1	1 pc	Upper Rail		●Material Aluminium Alloy/Steel ●Finish Anodized /Clear Zinc Chromate
2	1 pc	Lower Rail	 ※ ( ) is for Glass Width 595 mm, 895 mm.	●Material Aluminium Alloy/Steel /Polyacetal (POM) ●Finish Anodized /Clear Zinc Chromate
3	1 pc	Upper Door Frame		●Material Aluminium Alloy/Steel ●Finish Anodized /Clear Zinc Chromate
4	1 pc	Lower Door Frame		●Material Aluminium Alloy/Steel /Polyacetal (POM) ●Finish Anodized /Clear Zinc Chromate
5	1 pc	Door End Cap (Upper Left)		●Material ABS ●Colour Grey
6	1 pc	Door End Cap (Upper Right)		●Material ABS ●Colour Grey
7	1 pc	Door End Cap (Lower Left)		●Material ABS ●Colour Grey
8	1 pc	Door End Cap (Lower Right)		●Material ABS ●Colour Grey
9	4 pcs	Glass Fixing Holding Gasket		●Material Urethane Sponge ●Colour Black

No.	Qty	Part Name	Dimensions	Description
10	2 pcs	Connecting Pin		●Material Stainless Steel
11	11 pcs (12 pcs)	Binding Head Tapping Screw 3.5×15	–	–

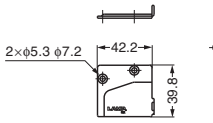
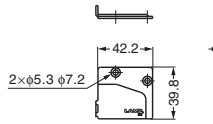
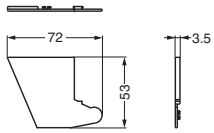
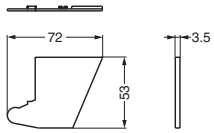
Qty: ( ) is for MFS-G600/S3, MFS-G600/S4, MFS-G600/S5, MFS-G900/S5, MFS-G900/S6 and MFS-G900/S7.
★Made to order.

End Cap Set (Per Door)

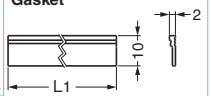
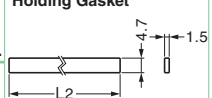
Necessary Parts
1 set is necessary for 1 unit.

Set Name	Item Code	Item Name
End Cap Set	250-129-555	MFS-ED

Parts Included

No.	Qty	Part Name	Dimensions	Description
12	1 pc	End Cap L		●Material Steel ●Finish Grey
13	1 pc	End Cap R		●Material Steel ●Finish Grey
14	1 pc	Lower Rail Cover L		●Material ABS ●Finish Grey
15	1 pc	Lower Rail Cover R		●Material ABS ●Finish Grey
16	4 pcs	Countersunk Head Tapping Screw 3.5×12	–	●Material Stainless Steel

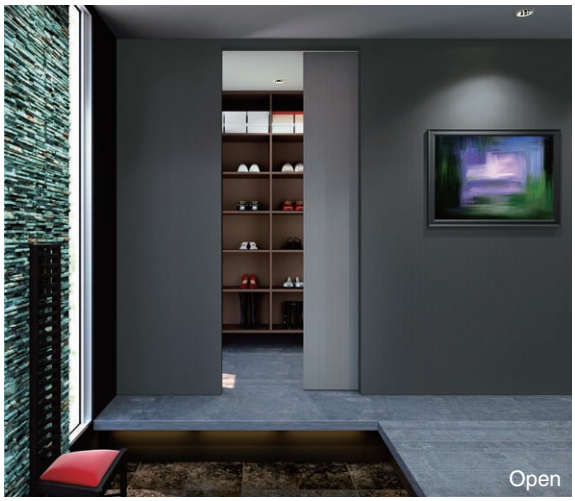
Optional Parts

No.	Item Code	Part Name	Dimensions	Description
17	250-014-208 MFS-PK300	Holding Gasket (Glass Width 295 mm)	Gasket 	When connecting glasses by double tape, please order one set per glass. Select 17~20 depend on glass width. Gasket ●Material Ethylene Propylene Rubber (EPDM) ●Colour Gray Glass Protection Holding Gasket ●Material Chloroprene Rubber (CR) ●Colour Black
18	250-014-209 MFS-PK450	Holding Gasket (Glass Width 445 mm)	Glass Protection Holding Gasket 	
19	250-014-210 MFS-PK600	Holding Gasket (Glass Width 595 mm)		
20	250-014-211 MFS-PK900	Holding Gasket (Glass Width 895 mm)		

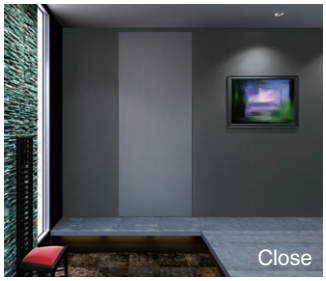
	L1	L2
17	305	275
18	455	425
19	605	575
20	905	875

FLUSH SLIDING DOOR SYSTEM

MFU-1000



MFU-1000-L shown.



MonoFlat UNISON®

Door Width	800 - 1000 mm	
Door Height	Max. 2500 mm	
Door Thicknes	*28 - 30 mm	
Door Weight	Max. 30 kg	
Adjustability	Depth:	±3.5 mm
	Horizontal:	±4 mm
	Vertical:	±4 mm

*Can be used on door thicker than 30 mm by mortising hanging bracket into the door.

■Features

●Flush Surface

Door will be "flush" against surrounding walls, providing clean appearance.

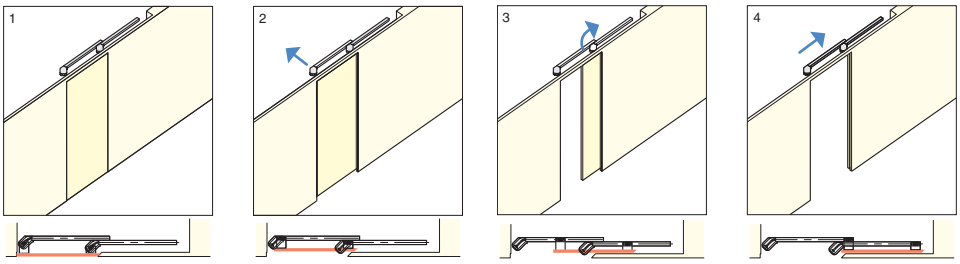
●Unique Movement

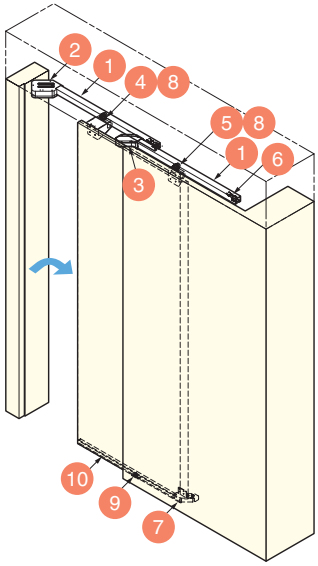
Door moves in first and slides sideways.

●Clean Appearance

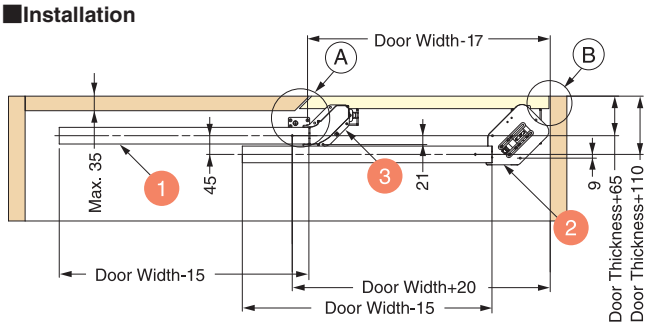
No bottom rail required.

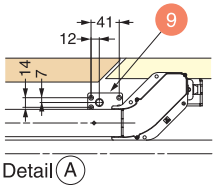
■How the Door Moves

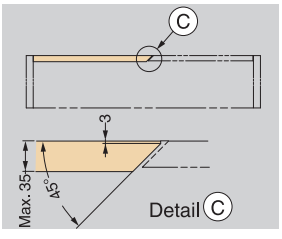


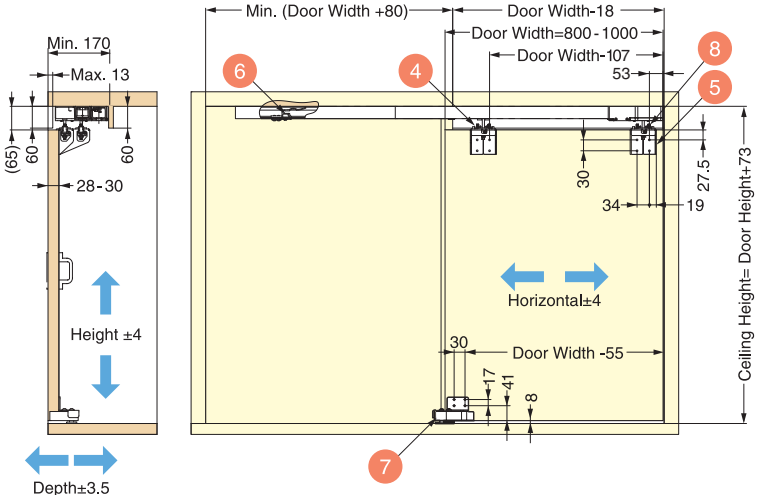


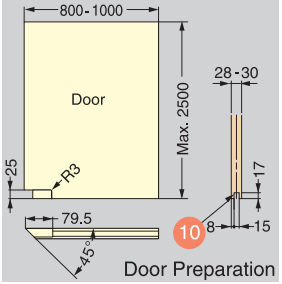
■Installation









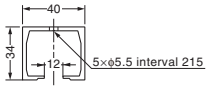
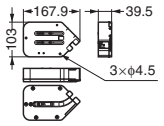
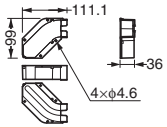
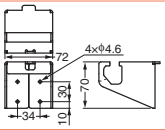
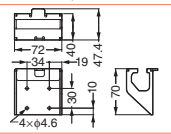


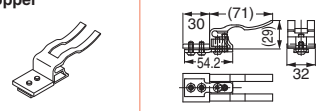
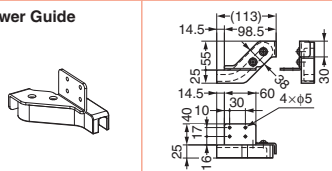
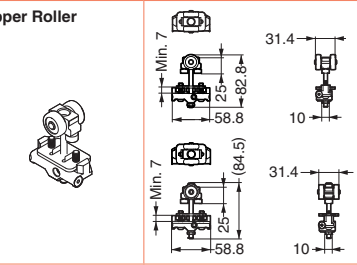
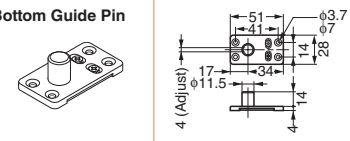
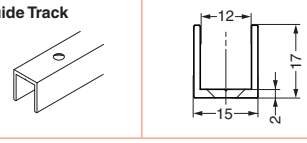
Parts Set (Per Door)

Necessary Parts

Item Code	Item Name	Description
250-022-021	MFU-1000-R	For Right-Handed Opening
250-022-022	MFU-1000-L	For Left-Handed Opening

Parts included

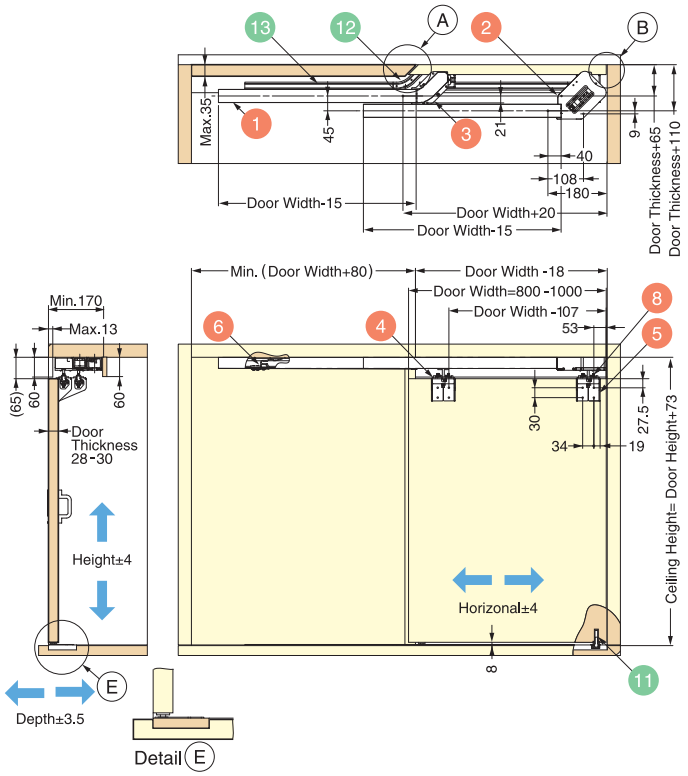
No.	Qty	Part Name	Dimensions	Description
1	2 pcs	Upper Track		●Material Aluminium ●Finish Anodized
2	1 pc	Guide Block		●Material Aluminium, Polycarbonate ●Finish Silver White
3	1 pc	Guide Block		●Material Aluminium ●Finish Silver
4	1 pc	Upper Bracket A		●Material Steel ●Finish Chromate
5	1 pc	Upper Bracket B		●Material Steel ●Finish Chromate

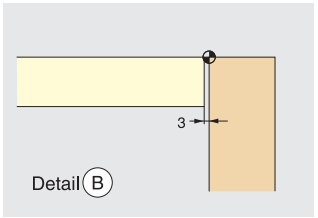
No.	Qty	Part Name	Dimensions	Description
6	1 pc	Stopper		●Material PBT / Steel ●Finish White / Yellow Zinc Chromate
7	1 pc	Lower Guide		●Material Steel ●Finish Chromate
8	2 pcs	Upper Roller		●Material POM / Steel ●Finish Natural / Chromate
9	1 pc	Bottom Guide Pin		●Material Polyamide ●Finish Yellow Zinc Chromate / Light Brown
10	1 pc	Guide Track		●Material Aluminium ●Finish Anodized

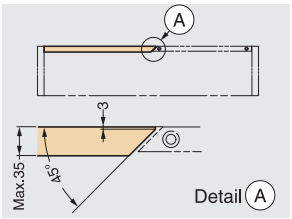
Optional Parts

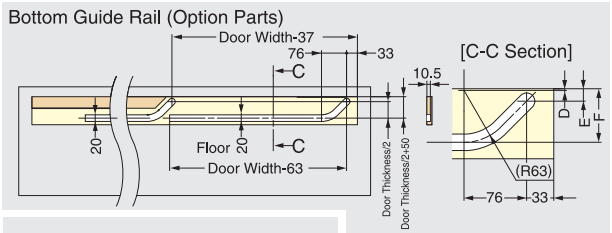
For floor mounted recessed guide track.

Item Code	Item Name	Description	Parts Included
250-023-148	MFU-1000RG-SL-R	For Right-Handed Opening	11 Guide Pin 12 Lower Guide Track 13 Recessed Guide Track
250-023-149	MFU-1000RG-SL-L	For Left-Handed Opening	11 Guide Pin 12 Lower Guide Track 13 Recessed Guide Track

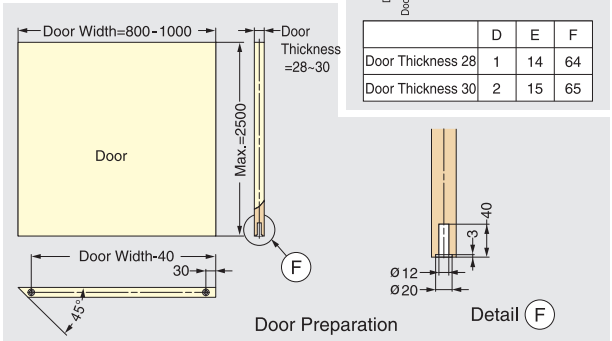








	D	E	F
Door Thickness 28	1	14	64
Door Thickness 30	2	15	65



MONOFLAT LIN-X HINGE

STEEL

LIN-X450, LIN-X600

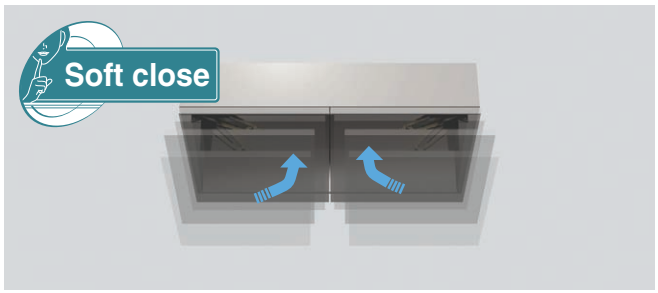
MonoFlat LIN-X hinge®

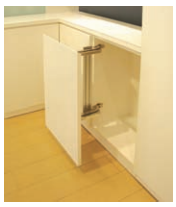


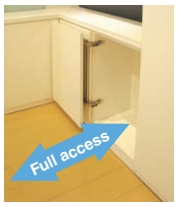
	LIN-X450	LIN-X600
Door Width	400～500 mm	550～650 mm
Door Height	600～2400 mm	
Door Thickness	15～24 mm	
Door Weight	Max. 17 kg/Door	Max. 24 kg/Door
Overlay	19 mm	

■Features

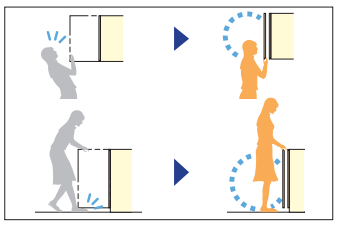
- Lateral swing mechanism
  Allows to swing out laterally in small radius, ideal for tight front space application.
- Full access to cabinet
  Door will not get in the way when fully opened, providing full access to the cabinet.
- Free swing & soft-close
- Easy installation
- 4-way adjustable
- Various applications
  Corner use, double door use & overlapped door use.



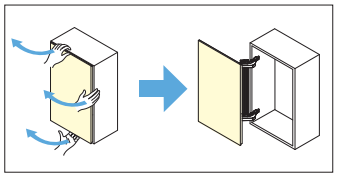








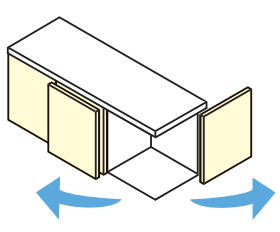
●Swing door laterally

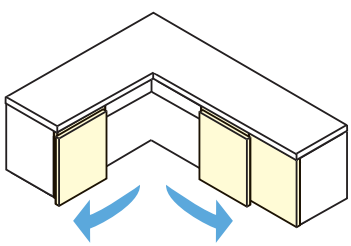


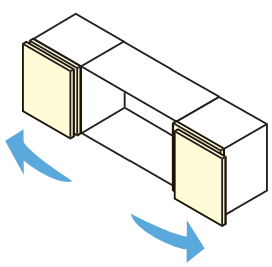
●Free swing


Hinge body (Close)

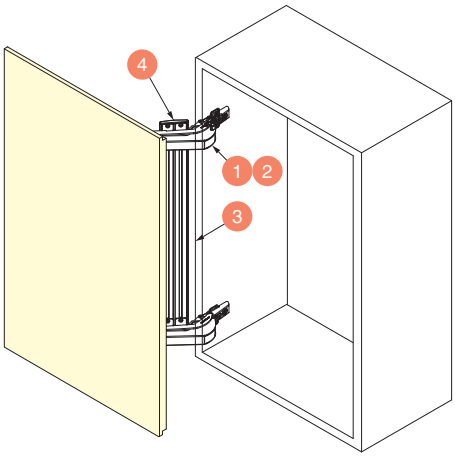

Hinge body (Open)

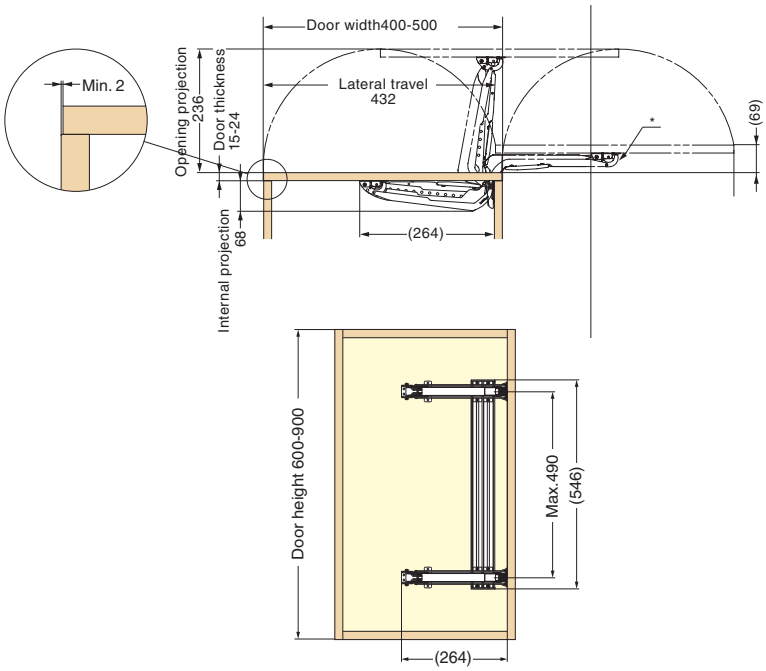






■LIN-X450 Standard Kit

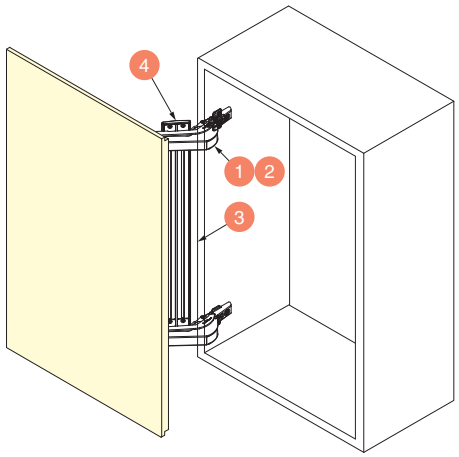


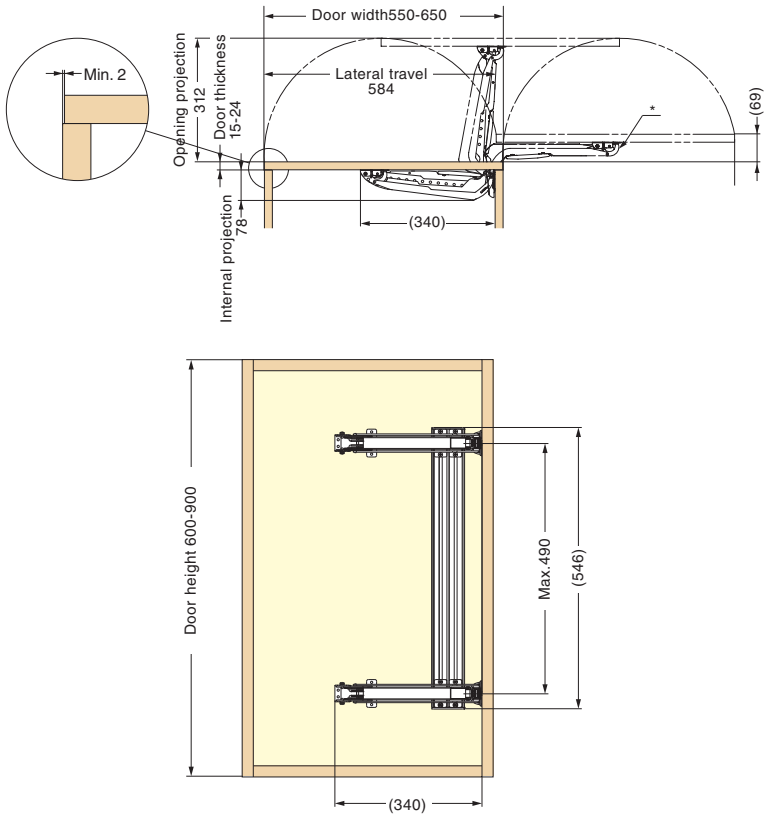


Door Width	400-500 mm
Door Height	600-900 mm
Door Thickness	15-24 mm
Door Weight	Max. 7 kg / Door

Item Code	Item Name	Overlay	Mounting Plate	Material	Finish	Weight	Box	Carton
250-014-240	LIN-X450	19 mm	230-P4W-32T	Steel/Aluminium	Nickel/Anodized	2.2 kg	1 set	6 sets
250-014-553	LIN-X450+5	14 mm	230-P4W-32T+5	Steel/Aluminium	Nickel/Anodized	2.2 kg	1 set	6 sets

■LIN-X600 Standard Kit





Door Width	550-650 mm
Door Height	600-900 mm
Door Thickness	15-24 mm
Door Weight	Max. 9 kg / Door

Item Code	Item Name	Overlay	Mounting Plate	Material	Finish	Weight	Box	Carton
250-017-590	LIN-X600	19 mm	230-P4W-32T	Steel/Aluminium	Nickel/Anodized	3.2 kg	1 set	6 sets

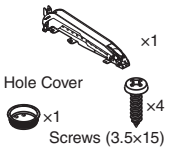
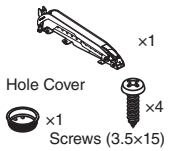
■LIN-X450 Individual Parts for Tall/Heavy Door

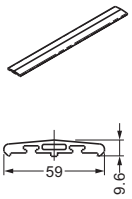
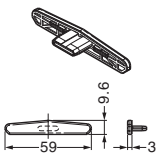
Parts Set (Per Door)

Necessary Parts
Please refer to parts included in each set.

Item Code	Item Name	Door Height	Door Weight	Parts Included			
				Hinge Set (With Damper) Item Name : LIN-X450ACD	Hinge Set (Without Damper) Item Name : LIN-X450A	Connecting Bar Item Name : LIN-X45-Lxxx	End Cap For Connecting Bar Item Name : LIN-X45C
250-016-704	LIN-X450S-1210	901-1200 mm	7.1-10.5 kg	3 sets	—	840 mm x 1 pc	2 pcs
250-016-705	LIN-X450S-1214		10.6-14 kg	3 sets	1 set		2 pcs
250-016-707	LIN-X450S-1510	1201-1500 mm	7.1-10.5 kg	3 sets	—	1140 mm x 1 pc	2 pcs
250-016-708	LIN-X450S-1514		10.6-14 kg	3 sets	1 set		2 pcs
250-016-709	LIN-X450S-1517		14.1-17 kg	3 sets	2 sets		2 pcs
250-016-711	LIN-X450S-1810	1501-1800 mm	7.1-10.5 kg	3 sets	—	1440 mm x 1 pc	2 pcs
250-016-712	LIN-X450S-1814		10.6-14 kg	3 sets	1 set		2 pcs
250-016-713	LIN-X450S-1817		14.1-17 kg	3 sets	2 sets		2 pcs
250-016-716	LIN-X450S-2110	1801-2100 mm	7.1-10.5 kg	3 sets	—	1740 mm x 1 pc	2 pcs
250-016-717	LIN-X450S-2114		10.6-14 kg	3 sets	1 set		2 pcs
250-016-718	LIN-X450S-2117		14.1-17 kg	3 sets	2 sets		2 pcs
250-016-723	LIN-X450S-2414	2101-2400 mm	10.6-14 kg	3 sets	1 set	2040 mm x 1 pc	2 pcs
250-016-724	LIN-X450S-2417		14.1-17 kg	3 sets	2 sets		2 pcs

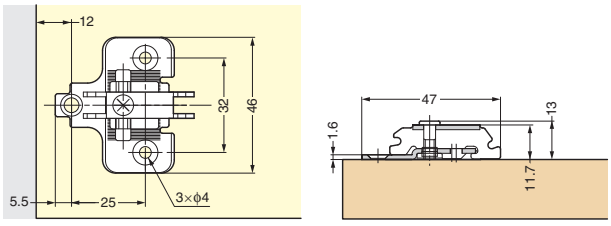
Parts Included

No.	Part Name	Description
1	**Hinge Body with Damper** 	**Item Code : 250-016-240** **Part Name : LIN-X450ACD** ●Material Steel ●Finish Nickel
2	**Hinge Body without Damper** 	**Item Code : 250-016-242** **Part Name : LIN-X450A** ●Material Steel ●Finish Nickel

No.	Part Name	Description
3	**Connecting Bar** 	**Item Code : 250-016-250** **Part Name : LIN-X45-L540** **Item Code : 250-016-252** **Part Name : LIN-X45-L840** **Item Code : 250-016-254** **Part Name : LIN-X45-L1140** **Item Code : 250-016-255** **Part Name : LIN-X45-L1440** **Item Code : 250-016-256** **Part Name : LIN-X45-L1740** **Item Code : 250-016-259** **Part Name : LIN-X45-L2040** ●Material Aluminium Alloy ●Finish Anodized
4	**End Cap for Connecting Bar** 	**Item Code : 250-016-260** **Part Name : LIN-X45C** ●Material Polyacetal (POM) ●Color Grey

Mounting Plate

Necessary Parts
Same qty as hinge is necessary.

Item Code	Part Name	Dimensions	Description
160-070-041 230-P4W-32T	**Mounting Plate** 		●Material Steel ●Finish Nickel Same quantity with hinge is necessary.
160-070-030 TAP3515NI	**Raised Countersunk Head Tapping Screw 3.5×15**  ×3 per mounting plate		●Material Steel ●Finish Nickel

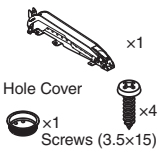
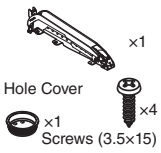
■LIN-X600 Individual Parts for Tall/Heavy Door

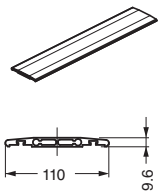
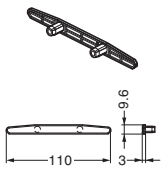
Parts Set (Per Door)

Necessary Parts
Please refer to parts included in each set.

Item Code	Item Name	Door Height	Door Weight	Parts Included			
				Hinge Set (With Damper) Item Name : LIN-X600ACD	Hinge Set (Without Damper) Item Name : LIN-X600A	Connecting Bar Item Name : LIN-X60-Lxxx	End Cap For Connecting Bar Item Name : LIN-X60C
250-017-068	LIN-X600S-1212	901-1200 mm	Less than 12 kg	2 sets	–	840 mm x 1 pc	2 pcs
250-017-069	LIN-X600S-1216		12.1-16 kg	3 sets	–		2 pcs
250-017-071	LIN-X600S-1516	1201-1500 mm	Less than 16 kg	3 sets	–	1140 mm x 1 pc	2 pcs
250-017-072	LIN-X600S-1520		16.1-20 kg	3 sets	1 set		2 pcs
250-017-074	LIN-X600S-1816	1501-1800 mm	Less than 16 kg	3 sets	–	1440 mm x 1 pc	2 pcs
250-017-075	LIN-X600S-1820		16.1 kg-20 kg	3 sets	1 set		2 pcs
250-017-493	LIN-X600S-1824		20.1-24 kg	3 sets	2 sets		2 pcs
250-017-077	LIN-X600S-2116	1801-2100 mm	Less than 16 kg	3 sets	–	1740 mm x 1 pc	2 pcs
250-017-078	LIN-X600S-2120		16.1 kg-20 kg	3 sets	1 set		2 pcs
250-017-079	LIN-X600S-2124		20.1-24 kg	3 sets	2 sets		2 pcs
250-017-082	LIN-X600S-2420	2101-2400 mm	Less than 20 kg	3 sets	1 set	2040 mm x 1 pc	2 pcs
250-017-083	LIN-X600S-2424		20.1-24 kg	3 sets	2 sets		2 pcs

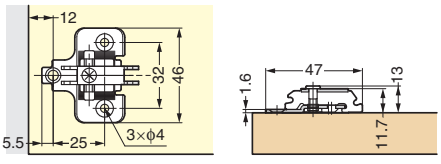
Parts Included

No.	Part Name	Description
1	**Hinge Body with Damper** 	**Item Code : 250-016-962** **Part Name : LIN-X600ACD** ●Material Steel ●Finish Nickel
2	**Hinge Body without Damper** 	**Item Code : 250-016-963** **Part Name : LIN-X600A** ●Material Steel ●Finish Nickel

No.	Part Name	Description
3	**Connecting Bar** 	**Item Code : 250-016-964** **Part Name : LIN-X60-L540** **Item Code : 250-016-965** **Part Name : LIN-X60-L840** **Item Code : 250-016-966** **Part Name : LIN-X60-L1140** **Item Code : 250-016-967** **Part Name : LIN-X60-L1440** **Item Code : 250-016-968** **Part Name : LIN-X60-L1740** **Item Code : 250-016-969** **Part Name : LIN-X60-L2040** ●Material Aluminium Alloy ●Finish Anodized
4	**End Cap for Connecting Bar** 	**Item Code : 250-016-970** **Part Name : LIN-X60C** ●Material Polyacetal (POM) ●Colour Grey

Mounting Plate

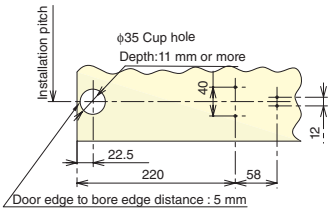
Necessary Parts
Same qty as hinge is necessary.

Item Code	Part Name	Dimensions	Description
160-070-041 Item Name : 230-P4W-32T	**Mounting Plate** 		●Material Steel ●Finish Nickel *Same quantity with hinge is necessary.
160-070-030 Item Name : TAP3515NI	**Raised Countersunk Head Tapping Screw 3.5×15**  ×3 per mounting plate		●Material Steel ●Finish Nickel

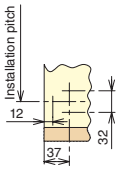
■Hinge Installation Pitch and Other Dimensions

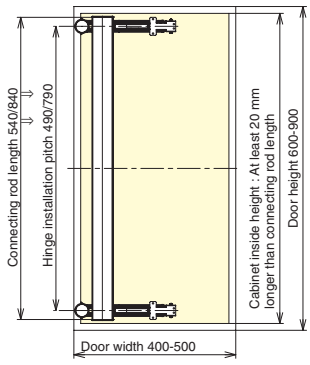
LIN-X450

■Door Preparation



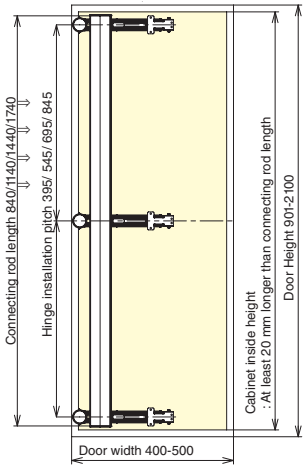
■Cabinet Preparation





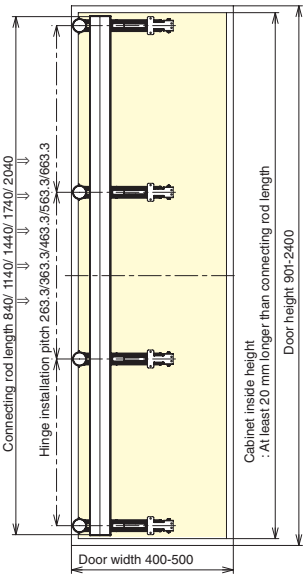
Door thickness 15-24
Door weight up to 7 kg

2 Hinges per door
(①LIN-X450ACD : 2 pcs)



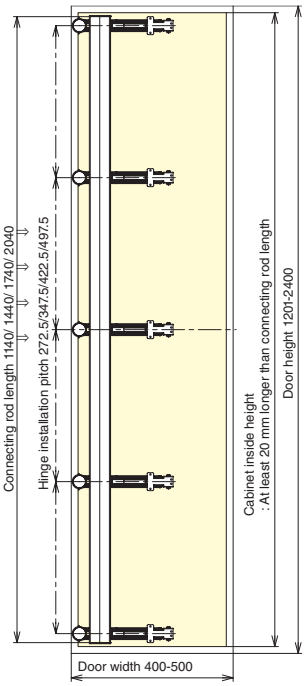
Door thickness 15-24
Door weight up to 10.5 kg

3 Hinges per door
(①LIN-X450ACD : 3 pcs)



Door thickness 15-24
Door weight up to 14 kg

4 Hinges per door
(①LIN-X450ACD : 3 pcs)
(②LIN-X450A : 1 pc)
*Please install the ② to the second place from the bottom.



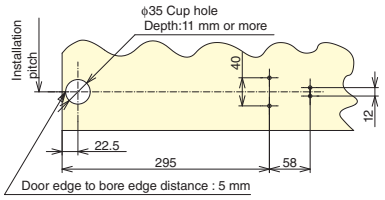
Door thickness 15-24
Door weight up to 17 kg

5 Hinges per door
(①LIN-X450ACD : 3 pcs)
(②LIN-X450A : 2 pcs)
*Please install the ② to the 2nd and 3rd place from the bottom.

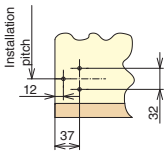
■Hinge Installation Pitch and Other Dimensions

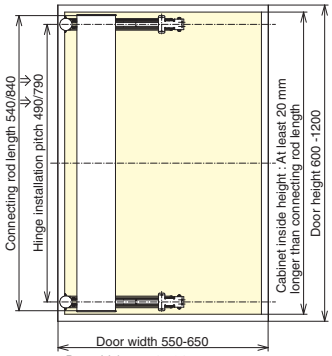
LIN-X600

■Door Preparation



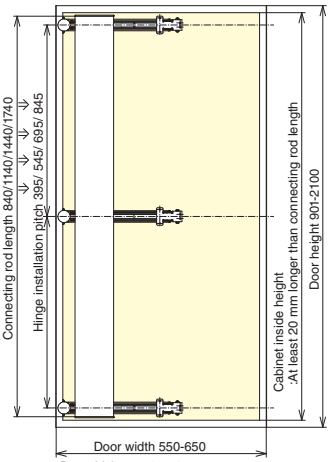
■Cabinet Preparation





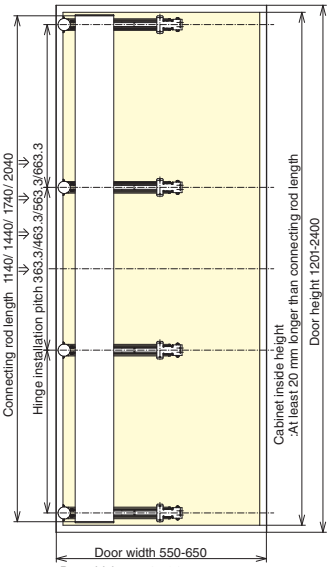
Door thickness 15-24
Door weight
Door height 600-1200
⇒Door weight up to 9 kg
Door height 901-1200
⇒Door weight up to 12 kg

2 Hinges per door
(① LIN-X600 ACD : 2 pcs)



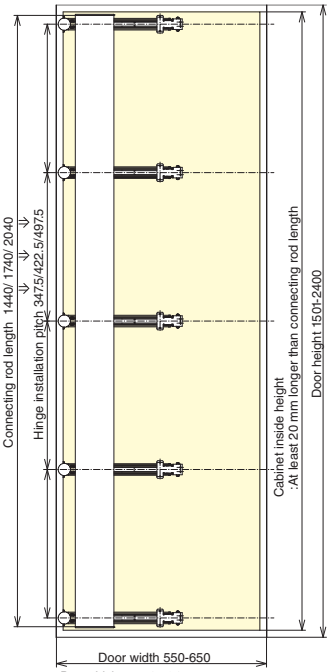
Door thickness 15-24
Door weight
Door height 901-2100
⇒Door weight up to 16 kg

3 Hinges per door
(① LIN-X600 ACD : 3 pcs)



Door thickness 15-24
Door weight up to 20 kg

4 Hinges per door
(① LIN-X600 ACD : 3 pcs)
(②LIN-X600 A : 1 pc)
* Please install the ② to the 2nd place from the bottom.



Door thickness 15-24
Door weight up to 24 kg

5 Hinges per door
(① LIN-X600 ACD : 3 pcs)
(②LIN-X600 A : 2 pcs)
* Please install the ② to the 2nd and 3rd place from the bottom.

MONOFLAT LIN-X HINGE (HEAVY DUTY)

STEEL

LIN-X1000



MonoFlat LIN-X hinge®

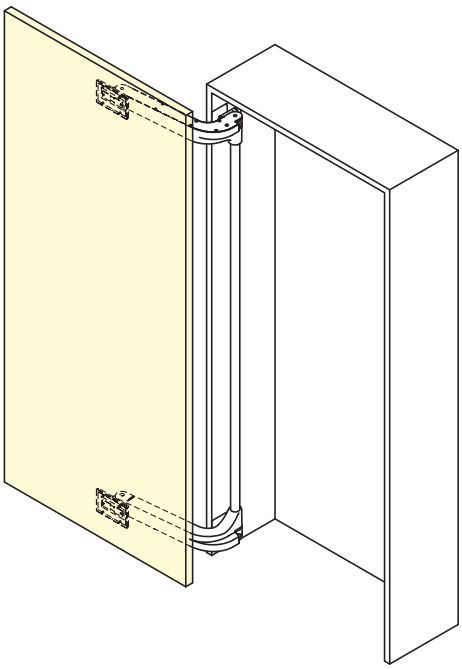
	LIN-X1000
Door Width	750 ～ 1100 mm
Door Height	Max. 2980 mm
Door Thickness	24 ～ 40 mm
Door Weight	Max. 90 kg/Door

■Features

- Unique Design & Easy Installation.
- Lateral Swing Mechanism
  Allows doors to swing out laterally in a small radius, ideal for tight front space application.
- Full Access to Cabinet
  Door will not get in the way when fully opened providing full access to the cabinet.
- Smooth Movement
  Handle can be installed in any position of door.
- Free Stop & Soft-close
  Door can be stopped in any position and closes softly.
- 4-Way Adjustable
  Adjustment in vertical (±7 mm), horizontal (±7 mm), depth (±5 mm) and parallel (±3˚).

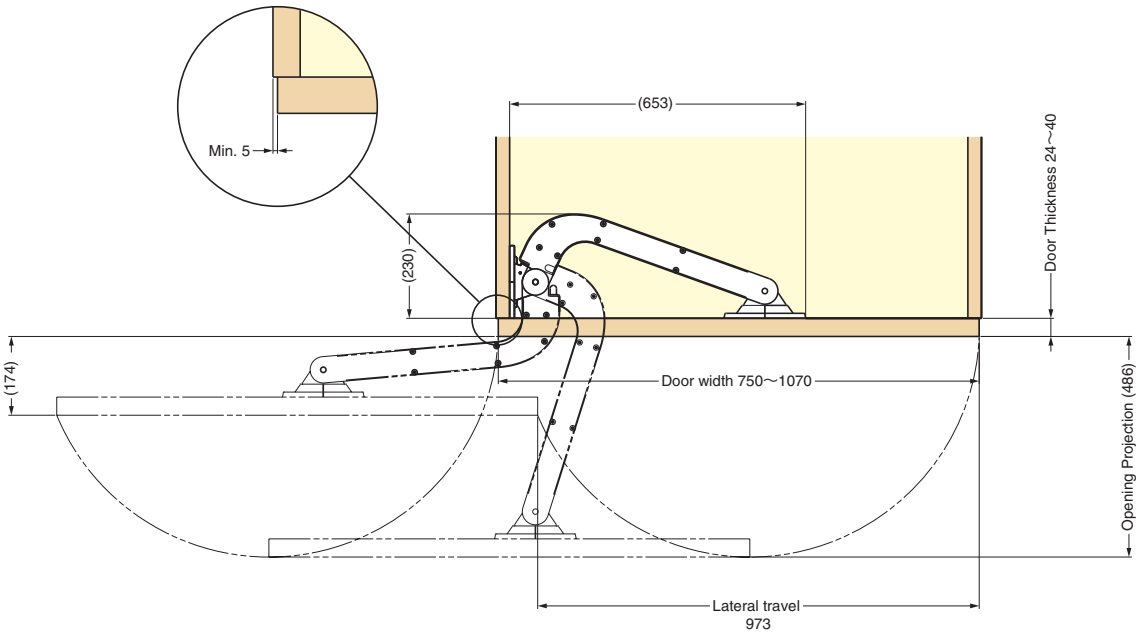
■Parts Included

Truss head tapping screw 6×25 (16 pieces)



■Applicable Door Load Capacity

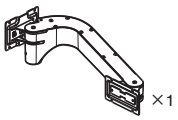
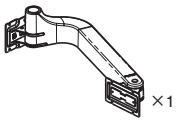
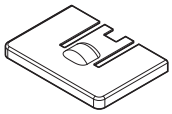
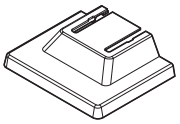
Open/Close cycles \ Door sagging	3 mm	5 mm
60,000	70 kg	90 kg
80,000	50 kg	80 kg
100,000	40 kg	70 kg



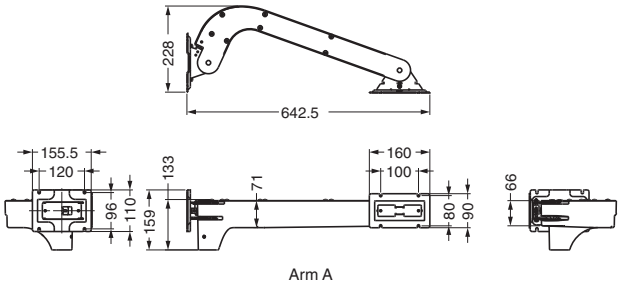
Parts Set (Per Door) Necessary Parts

Item Code	Item Name
–	LIN-X1000

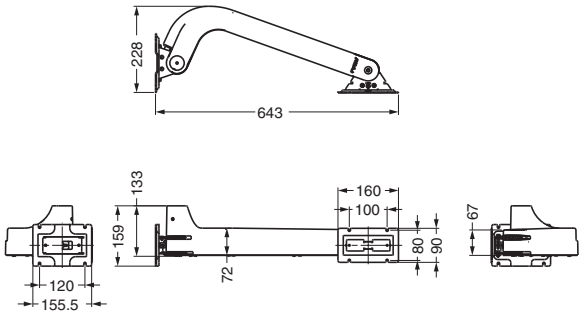
Parts Included

No.	Qty	Part Name	Description
1	1 pc	Arm A  ×1	●Material Aluminium Alloy ●Finish Painting
2	1 pc	Arm B  ×1	●Material Aluminium Alloy ●Finish Painting
3	4 pcs	Cover for Mounting Plate (Hinge Side) 	●Material ABS Resin ●Finish White
4	4 pcs	Cover for Mounting Plate (Door Side) 	●Material ABS Resin ●Finish White

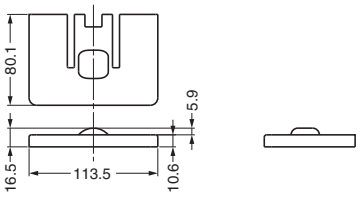
■Parts Drawing



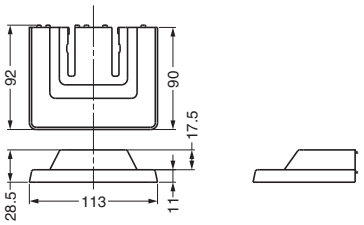
Arm A



Arm B

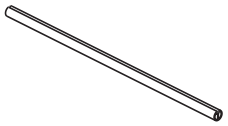


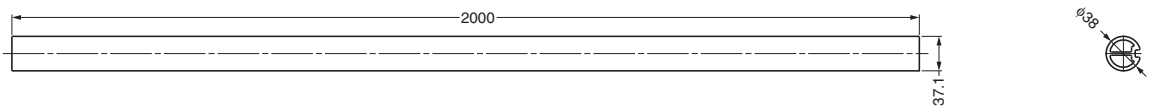
Cover for Mounting Plate (Hinge Side)



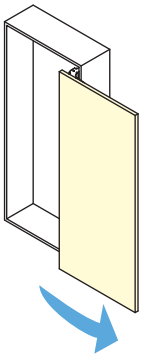
Cover for Mounting Plate (Door Side)

Connecting Bar Necessary Parts

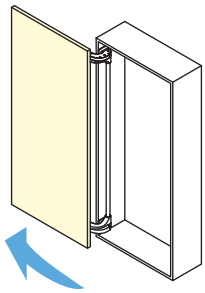
No.	Qty	Part Name	Item Code	Item Name	Description
5	1 pc	Connecting Bar 	–	LIN-X100-L2000	●Material Aluminium Extrusion ●Finish Anodized



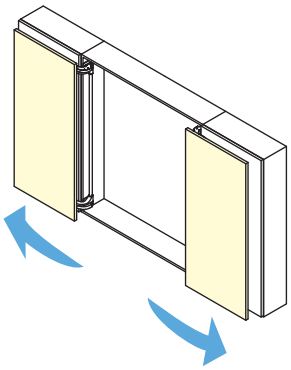
■Various Applications



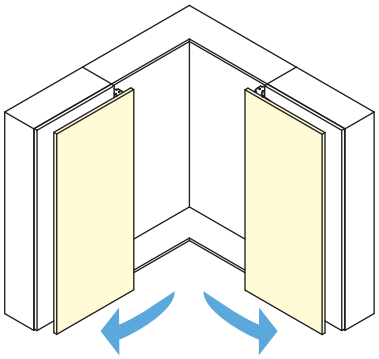
Right



Left

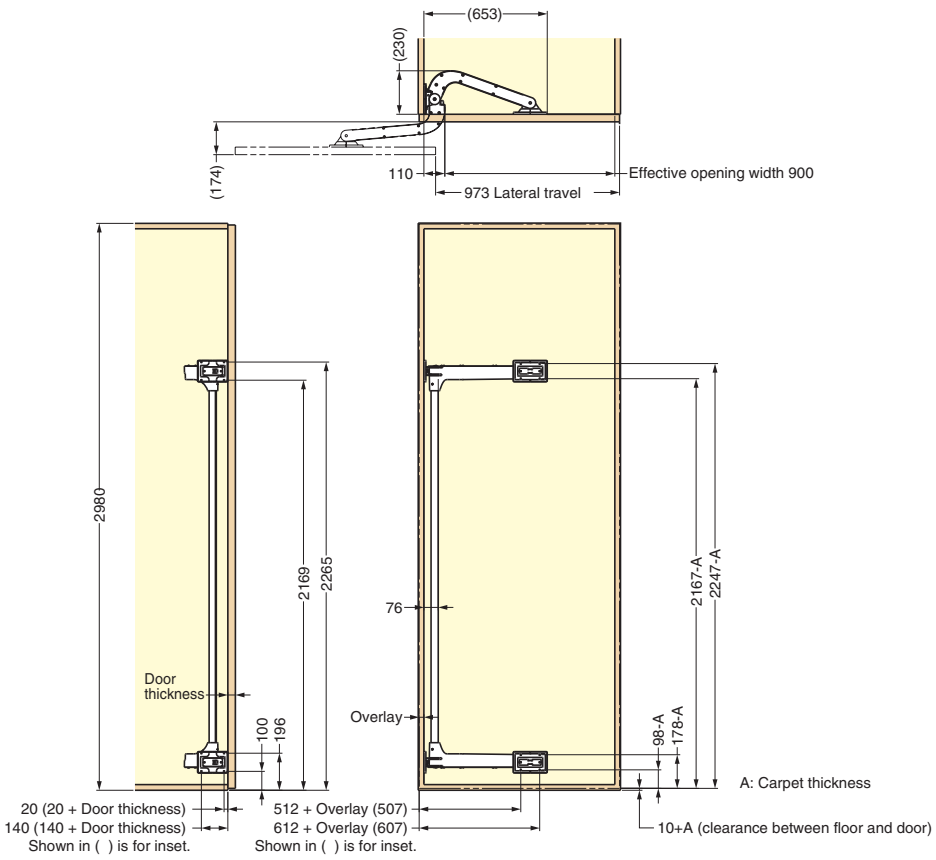


Right/Left Combination



Corner Use

■Installation



MONOFLAT FAD (FOR SMALL SIZE CABINET) FAD-5

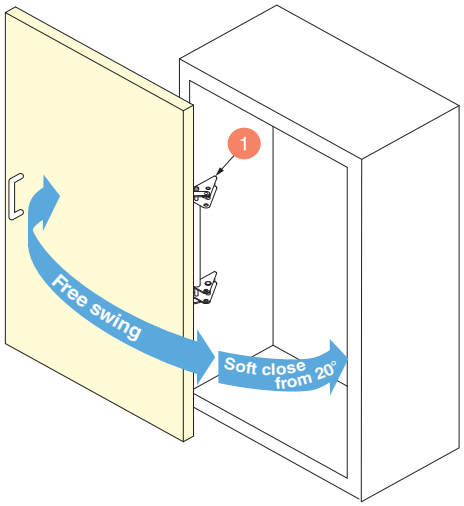


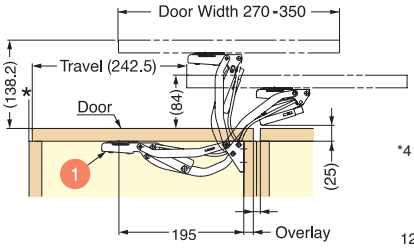
MonoFlat FAD®

Door Width	270-350 mm
Door Height	260-650 mm
Door Thickness	15-20 mm
Door Weight	Max. 5 kg/Door

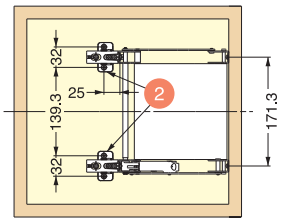
■Features

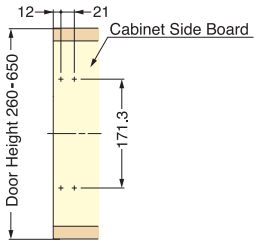
- Lateral swing mechanism for small size cabinet.
  Allows doors to swing out laterally in a small radius, ideal for tight front space application.
- Free swing & soft-close
- 3-Way adjustable
- Various applications
  Can be used in a single or double door.
  Ideal for cabinets in kitchen, bathroom, laundry room etc.
  ※For overlay use.
- Other "MonoFlat series" available.
  - MonoFlat FAD-20 for door weight 20 kg
  - MonoFlat LIN-X450/600 for door weight 24 kg
  - MonoFlat Unison for door weight 30 kg
  - MonoFlat FAD-44 for door weight 35 kg
  - MonoFlat FAD-54 for door weight 35 kg
  - MonoFlat LIN-X1000 for door weight 90 kg



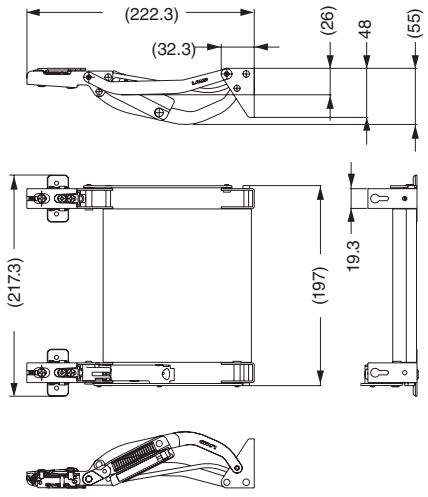


*4 mm gap required between doors.





■Hinge Dimensions

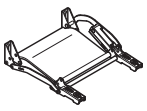


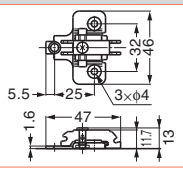
Parts Set (Per Door)

Necessary Parts

Item Code	Item Name
250-016-605	FAD-5

Parts Included

No.	Qty	Part Name	Drawing	Description
1	1 pc	Hinge Body 	As above.	●Material Aluminium Alloy /Polyacetal (POM) /Steel ●Finish Anodized Silver /Grey/Nickel

No.	Qty	Part Name	Drawing	Description
2	2 pcs	Mounting Plate 		Item Code : 160-070-041 Part Name : 230-P4W-32T ●Material Steel ●Finish Nickel

MONOFLAT FAD (FOR MEDIUM SIZE CABINET) FAD-20

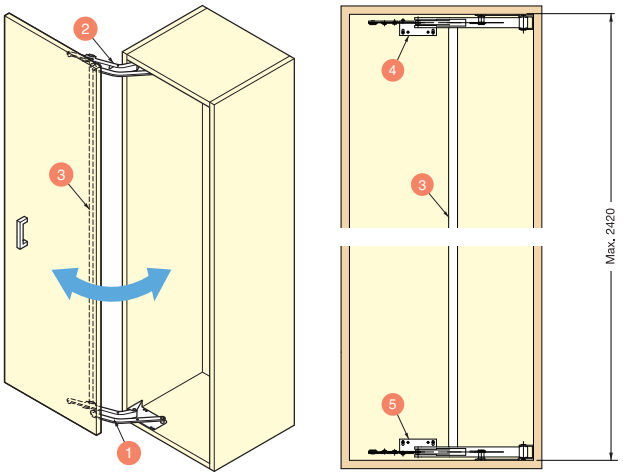


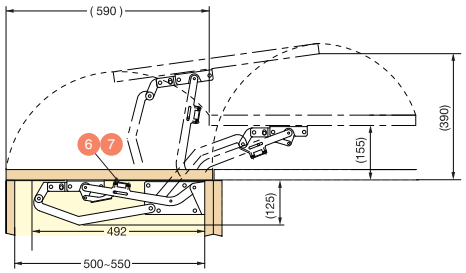
MonoFlat FAD®

Inside Cabinet Width	500~550 mm
Inside Cabinet Height	Max. 2420 mm
Door Thickness	Max. 35 mm
Door Weight	Max. 20 kg/Door

■Features

- Lateral opening system for medium size cabinet.
- Doors swings out laterally in a small radius compared to ordinary swing doors, ideal for tight space application.
- Various opening styles and combinations are available.
- Built-in gas spring provides smooth self opening and closing.
- Other "MonoFlat Series" are available.
  - MonoFlat FAD-5 for door weight 5 kg
  - MonoFlat LIN-X450/600 for door weight 24 kg
  - MonoFlat Unison for door weight 30 kg
  - MonoFlat FAD-44 for door weight 35 kg
  - MonoFlat FAD-54 for door weight 35 kg
  - MonoFlat LIN-X1000 for door weight 90 kg



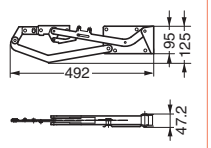
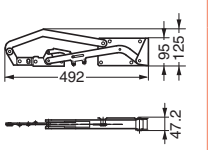
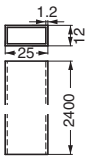
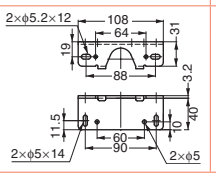
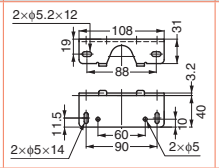
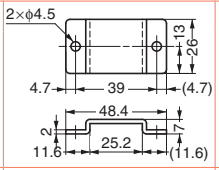
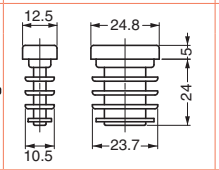


Parts Set (Per Door)

Necessary Parts

Item Code	Item Name
250-180-908	FAD-20

Parts Details

No.	Qty	Part Name	Dimensions	Description
1	1 pc	Arm A		●Material Aluminium Alloy/Steel ●Finish Matte Silver
2	1 pc	Arm B		●Material Aluminium Alloy/Steel ●Finish Matte Silver
3	1 pc	Connecting Pipe		●Material Steel ●Finish Matte Silver
4	1 pc	Upper Bracket		●Material Steel ●Finish Matte Silver
5	1 pc	Lower Bracket		●Material Steel ●Finish Matte Silver
6	2 pcs	Pipe Clamp		●Material Steel ●Finish Matte Silver
7	2 pcs	Cap		●Material Polyethylene (PE) ●Colour Black
8	1 pc	Sticker		–

MONOFLAT FAD (FOR LARGE SIZE CABINET)

STEEL FAD-44

MonoFlat FAD®

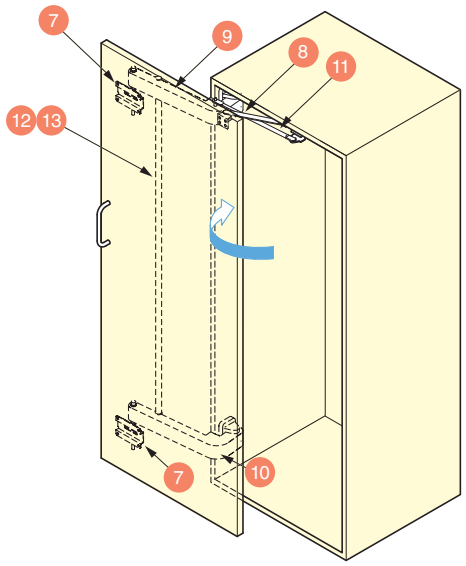


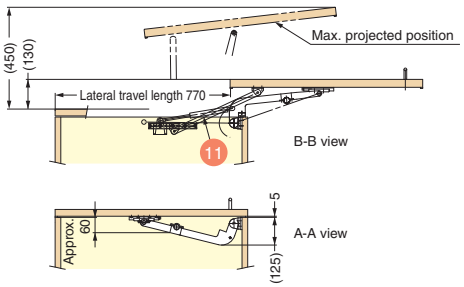
	FAD-44	FAD-44L
Door Width	800～850 mm※1	
Door Height	Max. 2380 mm	Max. 2980 mm
Door Thickness	24～38 mm	
Door Weight	Max. 35 kg/Door	

※1 Cabinet inner width 750 - 800 mm and overlay 25 mm.

■Features

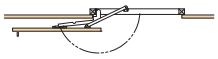
- Innovative mechanism allows lateral opening doors.
- Door will be "flush" against surrounding walls.
- Can be used for overlay and inset applications.
- The gas spring provides a smooth self opening and closing movement.
- Opening space is only half the space in front of the cabinet compared with ordinary swing doors.
- Height adjustable by cutting the arm connecting pipe.
- Vertically and Horizontally adjustable after installation.
- Other "MonoFlat Series" are available.
  - ・MonoFlat FAD-5 for door weight 5 kg
  - ・MonoFlat FAD-20 for door weight 20 kg
  - ・MonoFlat LIN-X450/600 for door weight 24 kg
  - ・MonoFlat Unison for door weight 30 kg
  - ・MonoFlat LIN-X1000 for door weight 90 kg



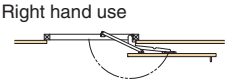


■Opening Variations (Single / Double Doors)

Left hand use

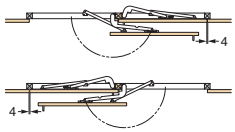


Right hand use



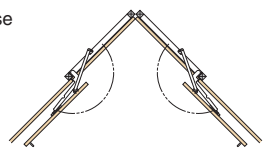
Light / Left combination※2

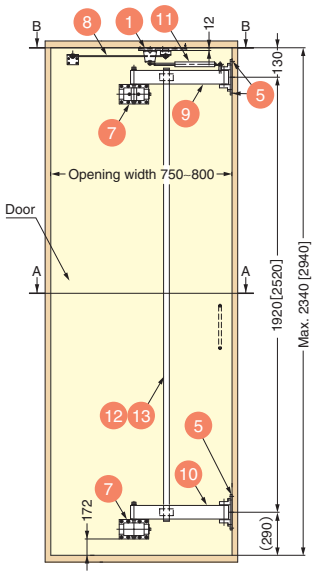




※2 Vertical frame or door stoppers on floor for both doors required in center.

Corner use





Dimension in [ ] shows FAD-44L.

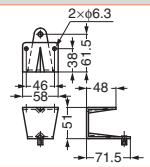
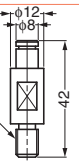
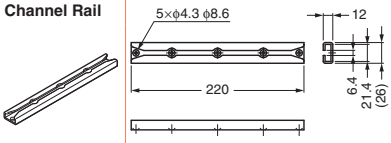
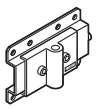
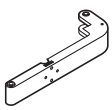
Parts Set (Per Door)

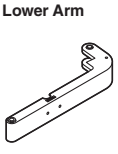
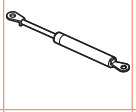
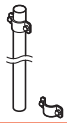
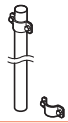
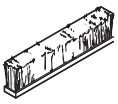
Necessary Parts

Please choose [a] or [b] depending on your door height.

Set Name	Item Code	Item Name
[a] Parts Set (Max. Door Height 2380 mm)	250-121-311	FAD-44
[b] Parts Set (Max. Door Height 2980 mm)	250-121-316	FAD-44L

Parts Details

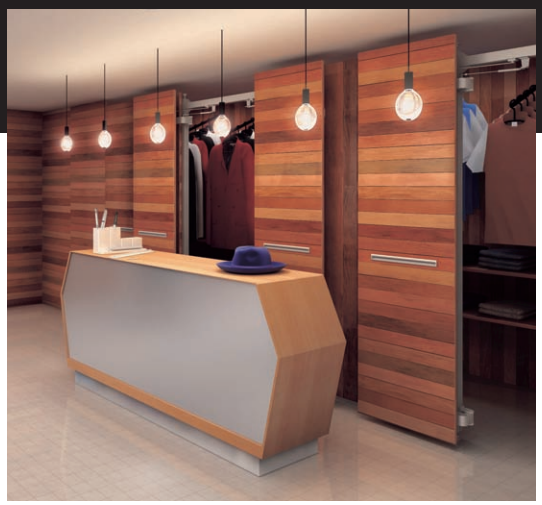
No.	Qty [a]	Qty [b]	Part Name	Dimensions	Description
1	1 pc	1 pc	Gas Spring Bracket		●Material Steel ●Finish Clear Zinc Chromate
2	1 pc	1 pc	Screw Pin		●Material Steel ●Finish Clear Zinc Chromate
3	1 pc	1 pc	Channel Rail		●Material Steel ●Finish Nickel
4	1 pc	1 pc	Support Arm Square Nut Gas Spring Square Nut		●Material Steel ●Finish Clear Zinc Chromate
5	4 pcs	4 pcs	Bearing Housing		●Material Aluminium Alloy ●Finish/Colour Silver
6	2 pcs	2 pcs	Hinge Base Plate		●Material Zinc Alloy (ZDC) ●Finish/Colour Silver
7	2 pcs	2 pcs	Adjustment Bracket		●Material Steel, Polyacetal (POM) ●Colour Silver
8	1 pc	1 pc	Support Arm		●Material Steel, Polyacetal (POM) ●Finish/Colour Silver
9	1 pc	1 pc	Upper Arm		●Material Aluminium Alloy ●Finish/Colour Silver

No.	Qty [a]	Qty [b]	Part Name	Dimensions	Description
10	1 pc	1 pc	Lower Arm		●Material Aluminium Alloy ●Finish/Colour Silver
11	1 pc	1 pc	Gas Spring		●Colour Grey
12	1 pc	–	Arm Connecting & Clamp (Pipe Length 1990 mm for FAD-44)		●Material Steel ●Finish/Colour Silver
13	–	1 pc	Arm Connecting & Clamp (Pipe Length 2600 mm for FAD-44L)		●Material Steel ●Finish/Colour Silver
14	1 pc	1 pc	Clear Bumper		Item Code : 210-030-639 Part Name : BS-36 ●Material Polyurethane (PUR) ●Finish Clear
15	1 pc	1 pc	Strip Brush		●Colour Grey

MONOFLAT FAD (FOR PARTITION USE)

STEEL FAD-54

MonoFlat FAD®

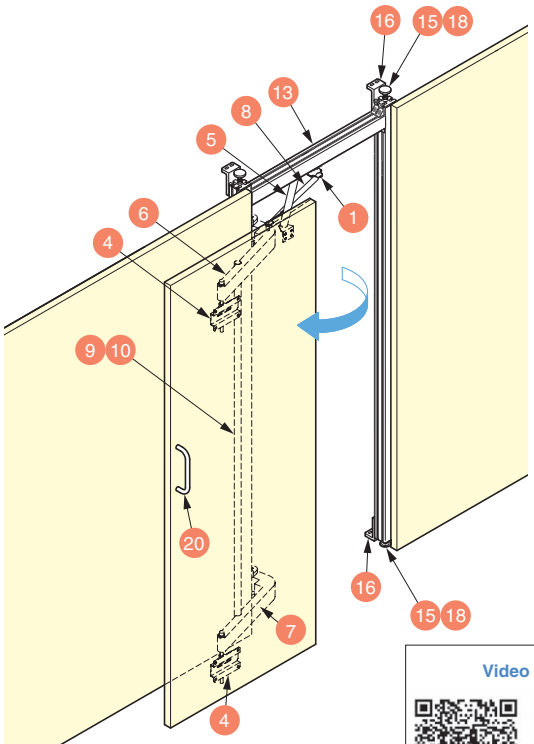


	FAD-54	FAD-54L
Door Width	800 - 850 mm※1	
Door Height	Max. 2380 mm	Max. 2980 mm
Door Thickness	24 - 38 mm	
Door Weight	Max. 35 kg/Door	
Specification	☐ Single Door, Double Door & Corner Door	

※1 When overlay is 25 mm both sides.

■Features

- Innovative mechanism allows lateral opening of doors.
- Door will be "flush" against surrounding walls.
- Can be used for overlay and inset applications.
- The gas spring provides a smooth self opening and closing movement.
- Frees the cabinet door from using ordinary hinges and requires only half the space in front of cabinet / door to open the door.
- No bottom rail required.
- Height adjustable by cutting the arm connecting pipe.
- Vertically and horizontally adjustable after installation.



Video Link

■Opening Variations (Single / Double Door)

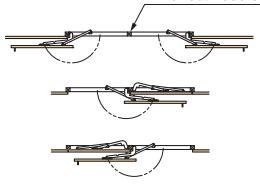
Left hand use

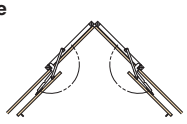
Right hand use

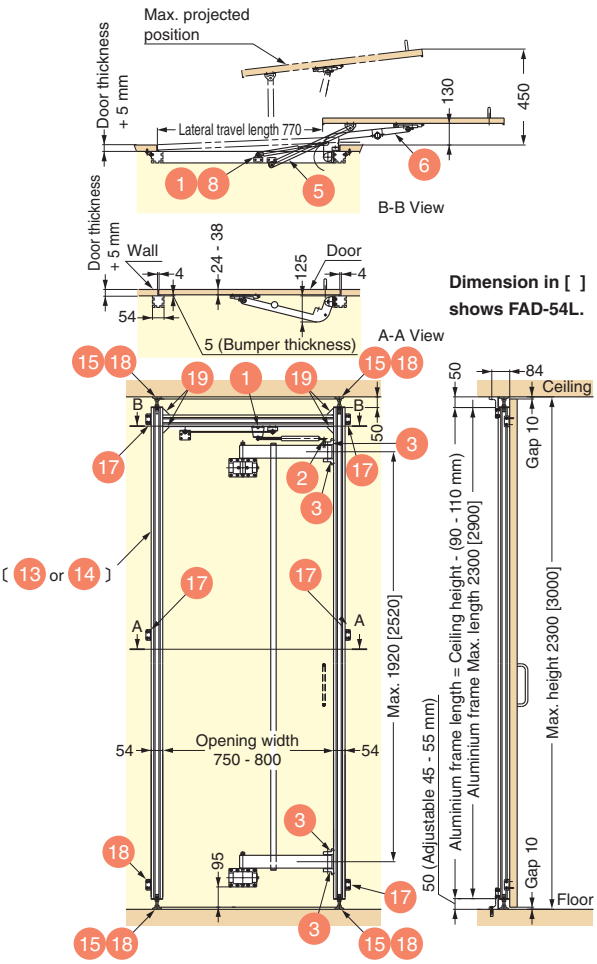
Corner use

Right / Left combination1

*1 Vertical frame or door stoppers on floor for both doors required in centre.







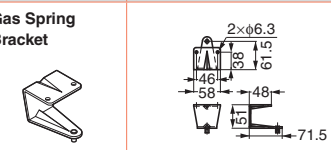
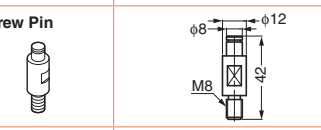
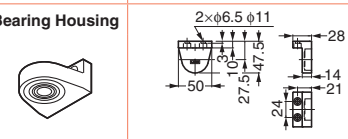
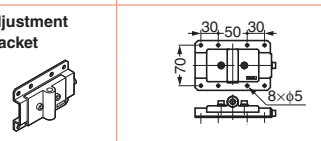
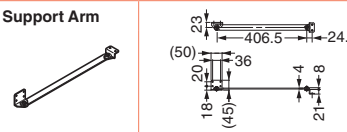
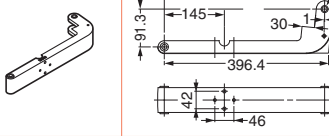
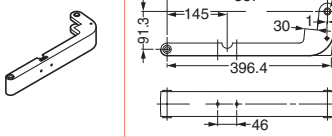
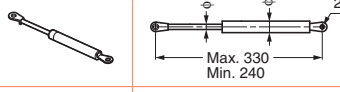
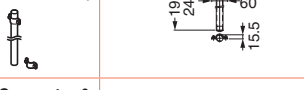
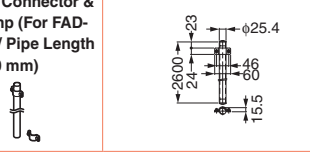
Parts Set (Per Door)

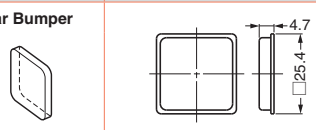
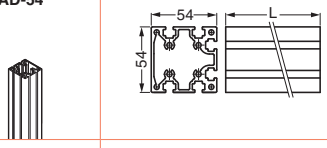
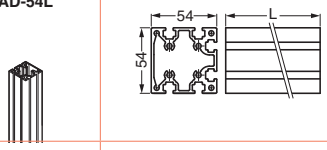
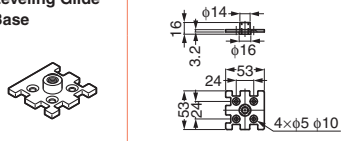
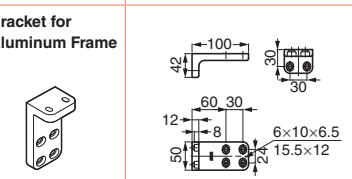
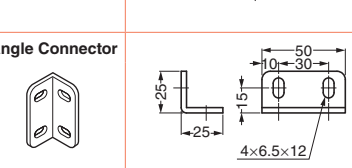
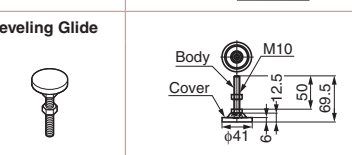
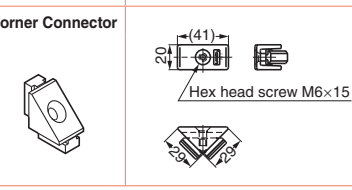
Necessary Parts

Please refer to "Qty [a] - [b]" for parts included in each set.

Set Name	Item Code	Item Name
[a] Parts Set (Max. Door Height 2380 mm)	250-121-313	FAD-54
[b] Parts Set (Max. Door Height 2980 mm)	250-121-315	FAD-54L

Parts Included

No.	Qty [a]	Qty [b]	Part Name	Dimensions	Description
1	1 pc	1 pc	Gas Spring Bracket		●Material Steel ●Finish Clear Zinc Chromate
2	1 pc	1 pc	Screw Pin		●Material Steel ●Finish Clear Zinc Chromate
3	4 pcs	4 pcs	Bearing Housing		●Material Aluminium Alloy ●Finish / Colour Silver
4	2 pcs	2 pcs	Adjustment Bracket		●Material Steel / Polyacetal (POM) ●Colour Silver
5	1 pc	1 pc	Support Arm		●Material Steel / Polyacetal (POM) ●Finish / Colour Silver
6	1 pc	1 pc	Upper Arm		●Material Aluminium Alloy ●Finish / Colour Silver
7	1 pc	1 pc	Lower Arm		●Material Aluminium Alloy ●Finish / Colour Silver
8	1 pc	1 pc	Gas Spring		●Colour Grey
9	1 set	—	Arm Connector & Clamp (For FAD-54/ Pipe Length 1990 mm)		●Material Steel ●Finish / Colour Silver
10	—	1 set	Arm Connector & Clamp (For FAD-54L / Pipe Length 2600 mm)		●Material Steel ●Finish / Colour Silver

No.	Qty [a]	Qty [b]	Part Name	Dimensions	Description
11	1 pc	1 pc	Clear Bumper		Item Code : 210-030-639 Item Name : BS-36 ●Material Polyurethane (PUR) ●Finish Clear
12	1 pc	1 pc	Strip Brush	 —	●Colour Grey
13	2 pcs + 1 pc	—	Aluminum Frame for FAD-54		●Material Aluminium Alloy ●Finish Anodized+Clear *Vertical: 2300 mm×2 pcs Horizontal: 800 mm×1 pc
14	—	2 pcs + 1 pc	Aluminum Frame for FAD-54L		●Material Aluminium Alloy ●Finish Anodized+Clear *Vertical: 2900 mm×2 pcs Horizontal: 800 mm×1 pc
15	4 pcs	4 pcs	Leveling Glide Base		●Material Steel ●Finish / Colour Silver
16	4 pcs	4 pcs	Bracket for Aluminum Frame		●Material Aluminium Alloy ●Finish / Colour Silver
17	6 pcs	6 pcs	Angle Connector		●Material Steel ●Finish Clear Zinc Chromate
18	4 pcs	4 pcs	Leveling Glide		Item Code : 200-140-593 Item Name : ADR37-10-50 ●Material Steel / Elastomer (TPE) ●Finish Clear Zinc Chromate / Black
19	8 pcs	8 pcs	Corner Connector		Item Code : 120-040-456 Item Name : PJ-60 ●Material Aluminium Alloy / Zinc Alloy (ZDC) ●Finish Silver / Yellow Zinc Chromate

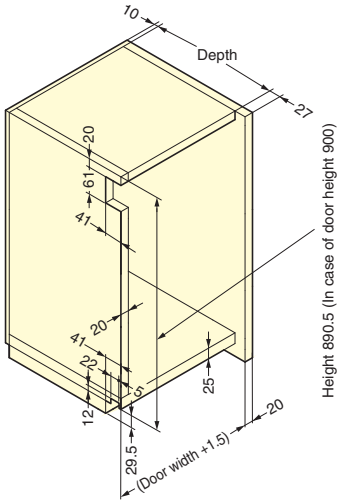
OVER TRAVEL SLIDING DOOR SYSTEM OX

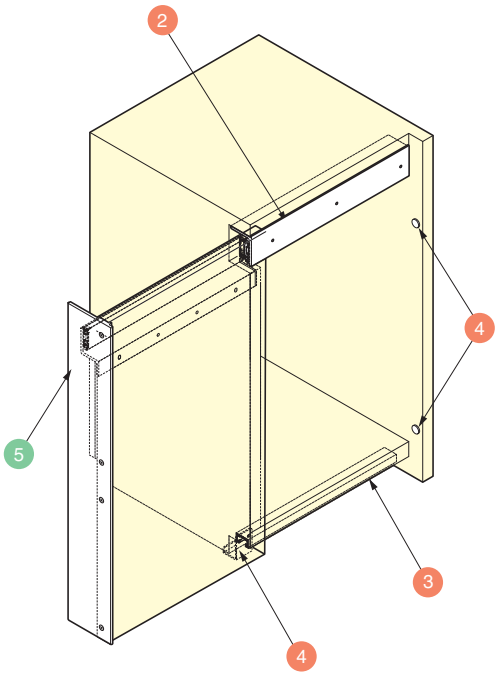


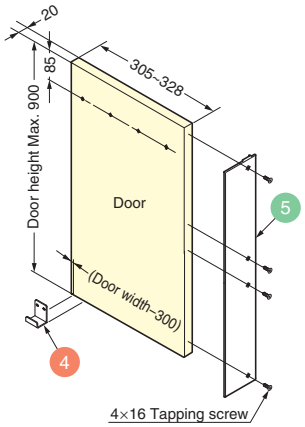
Door Width	305～328 mm
Door Height	Max. 900 mm
Door Thickness	20 mm
Door Weight	Max. 5 kg/Door

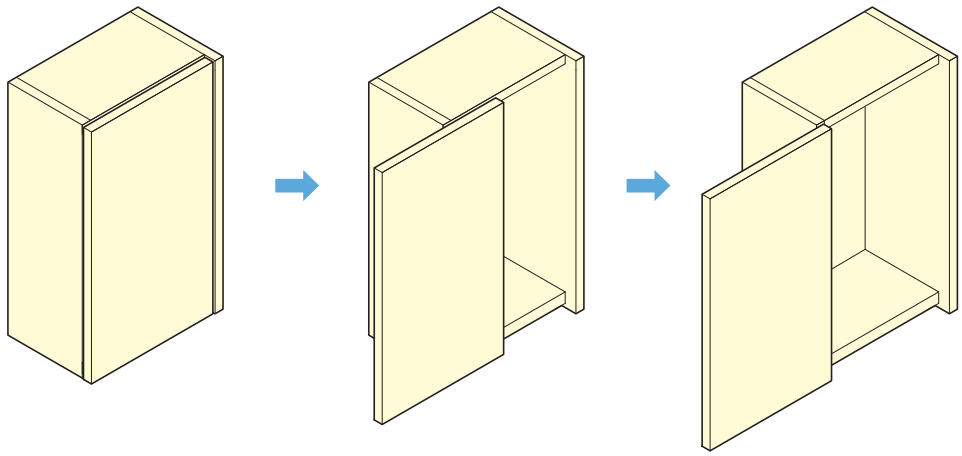
Features

- Over travel rail allows full access to cabinet inside.
- Suitable for limited space.

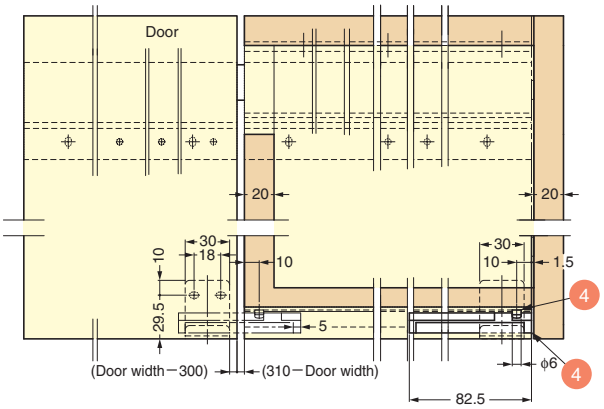


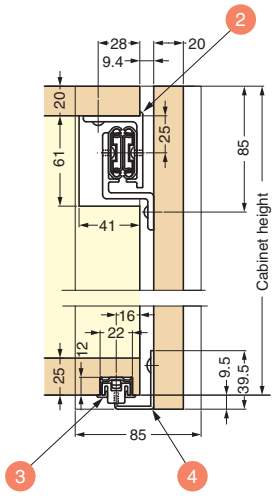




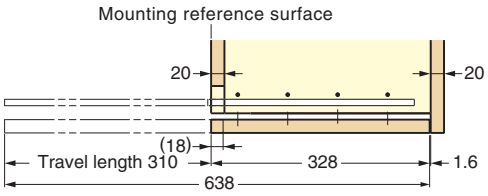


■Installation

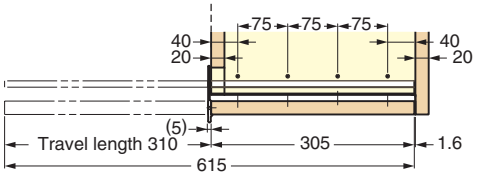




Door width 328 mm



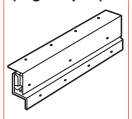
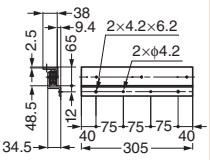
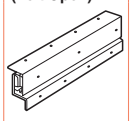
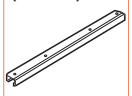
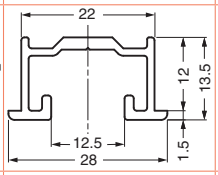
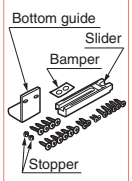
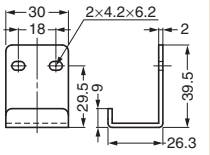
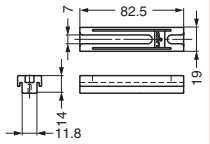
Door width 305 mm



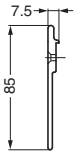
Parts Set (Per Door) — Necessary Parts

Set Name	Item Code	Item Name
a Parts Set for Right Open	250-121-436	OX-300R
b Parts Set for Left Open	250-121-435	OX-300L

Items

No.	Qty a	Qty b	Part Name	Dimensions	Description
1	1 pc	—	Upper Rail (Right Open)	 	**Item Code : 250-121-434** **Item Name : OX-U300R** ●Material Aluminium Alloy/Steel ●Finish Anodized Silver /Yellow Zinc Chromate
2	—	1 pc	Upper Rail (Left Open)		**Item Code : 250-121-433** **Item Name : OX-U300L** ●Material Aluminium Alloy/Steel ●Finish Anodized Silver /Yellow Zinc Chromate
3	1 pc	1 pc	Bottom Rail (305 mm)	 	**Item Code : 250-121-431** **Item Name : OX-L300** ●Material Aluminium Alloy ●Finish Anodized Silver
4	1 set	1 set	Parts Set	  Bottom guide  Slider	**Item Code : 250-120-432** **Item Name : OX-P** ●Parts Included: Bottom guide, Slider, Stopper, Bumper, Screw ・Truss Head Tapping Screw 4×18……4 pcs ・Truss Head Tapping Screw 4×16……6 pcs ・Countersunk Head Tapping Screw 3×12……2 pcs ・Round Head Wood Screw 3.5×16……2 pcs ・Countersunk Head Tapping Screw 4×16……5 pcs

Optional Parts

No.	Item Code	Part Name	Dimensions	Description
5	250-121-430 Item Name: OX-COV	Cover 		●Material Aluminium Alloy ●Finish Anodized Silver ●Length 900 mm

XL-GC SERIES (FOR SLIDING DOORS)

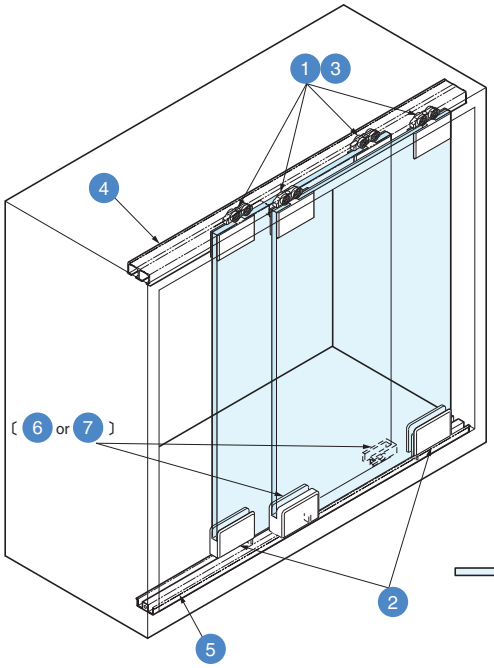


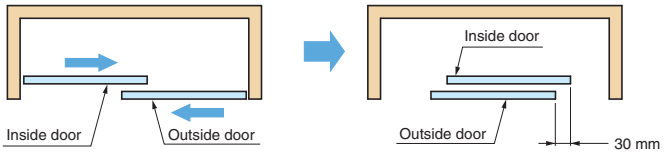
Door Width	Max. 500 mm
Door Height	Max. 1200 mm
Glass Thickness	8 mm
Glass Weight	Max. 12 kg / Door
Door Type	☐ 2 Sliding Inset Door

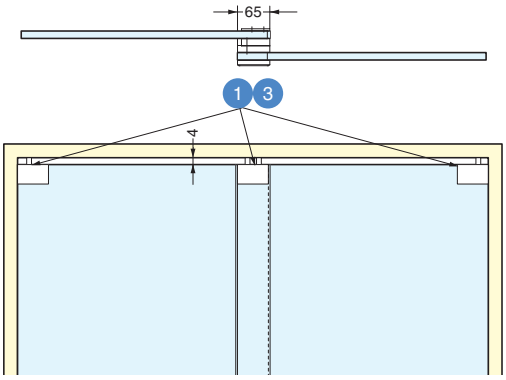
Total solution for coherent design of glass showcase

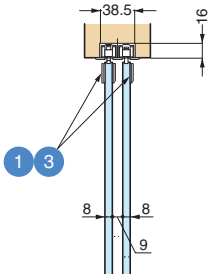
■Features

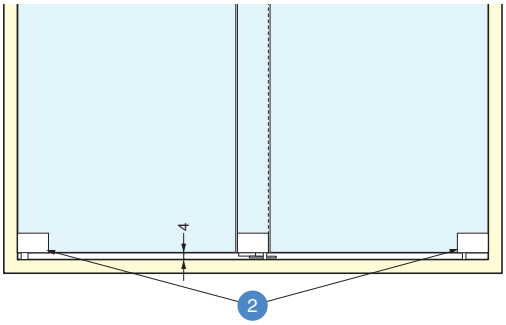
See the cut out dimensions in P.642.

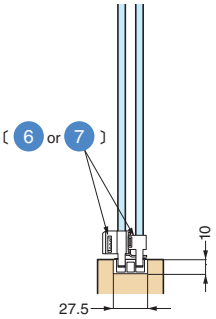






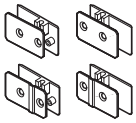
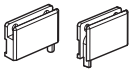
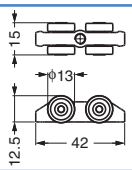






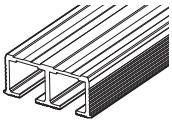
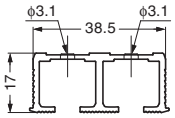
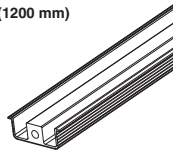
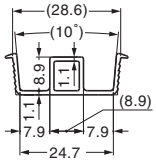
Sliding Door Parts

Necessary Parts
For 2 sliding doors, ❶ 1 set, ❷ 1 set and ❸ 4 pcs are necessary.

No.	Item Code	Part Name	Dimensions	Description
❶	250-121-960 XL-GC06-CR	Upper Bracket (with Hanger Bolt) 	See Dimension in P.642	●Material Zinc Alloy (ZDC) ●Finish Chrome
❷	250-121-961 XL-GC08-CR	Bottom Guide 	See Dimension in P.642	●Material Zinc Alloy (ZDC) ●Finish Chrome
❸	250-120-688 53-3061-081	Roller 		●Material Body：Zinc Alloy (ZDC) Roller：Polyacetal (POM)

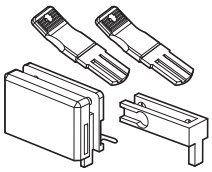
Rail

Necessary Parts
❹ 1 pc and ❺ 1 pc

No.	Item Code	Part Name	Dimensions	Description
❹	250-012-117 XL-GC06-UL1200	Upper Rail (1200 mm)  Pitch End : 50 mm Pitch : 150 mm		●Material Aluminium Alloy ●Finish Plain
❺	250-121-962 XL-GC03-GL1200	Bottom Rail (1200 mm) 		●Material ABS ●Finish Black

Sliding Door Lock

Necessary Parts
❻ or ❼ 1 pc

No.	Item Code	Part Name	Dimensions	Description
❻	150-061-103 XL-GC03-CR-B (Key Different)	Sliding Door Lock 	See Dimension in P.642	●Material Zinc Alloy (ZDC) ●Finish Chrome ●Max. 24 key changes available.
❼	150-001-055 XL-GC03-CR-D (Key Alike)			

UPPER BRACKET

STAINLESS

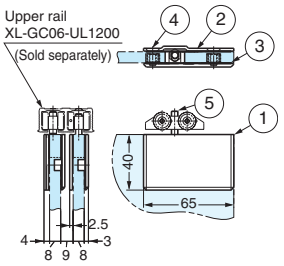
XL-GC06



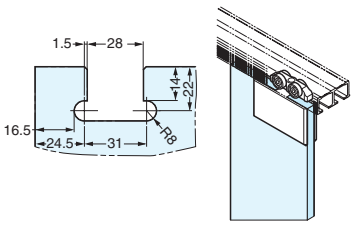
No	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy (ZDC)	Chrome
②	Backplate	Steel	Chrome
③	Spacer	Rubber	Natural
④	Screws	Stainless Steel (SUS304)	Plain
⑤	Bolt	Steel	Clear Zinc Chromate

■Features

- Upper bracket for glass sliding door.
- Can be used with XL-GC03.



■Cut Out Dimensions



Item Code	Item Name	Glass Thickness	Load Capacity		Weight	Box	Carton
250-121-960	XL-GC06-CR	8	117.7 N/door	12 kgf/door	400 g	1 pc	24 pcs

BOTTOM GUIDE BRACKET

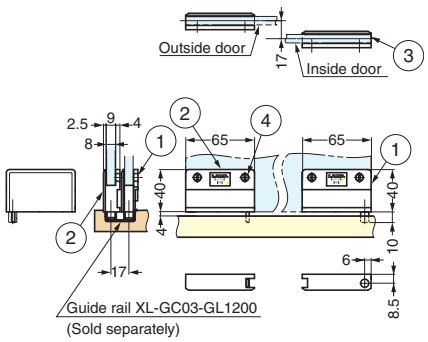
XL-GC08



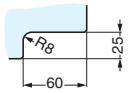
No	Part Name	Material	Finish/Colour
①	Body (Left)	Zinc Alloy (ZDC)	Chrome
②	Body (Right)	Zinc Alloy (ZDC)	Chrome
③	Spacer	Rubber	Black
④	Screws	Stainless Steel (SUS304)	Plain

■Features

- Bottom bracket for glass sliding door.
- Can be used with XL-GC03.



■Cut Out Dimensions



Item Code	Item Name	Glass Thickness	Weight	Box	Carton
250-121-961	XL-GC08-CR	8	400 g	1 pc	24 pcs

GLASS DOOR LOCK FOR SLIDING DOOR

XL-GC03



No	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy (ZDC)	Chrome
②	Strike	Zinc Alloy (ZDC)	Chrome
③	Spacer	Rubber	Black
④	Screws	Stainless Steel (SUS304)	Plain
⑤	Key	Brass/ABS	Nickel/Black

■Features

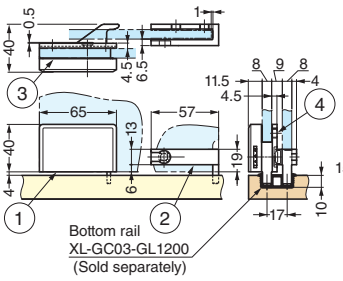
- Non-handed. Key hole located on the right side for a clean appearance and high security.
- 24 key numbers available.

■Remarks

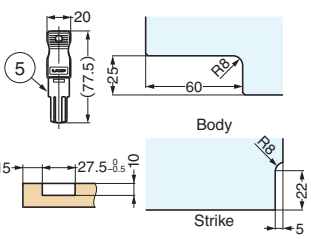
Please order 1 pc for 2 doors.

■Option

XL-GC03-GL1200
(P.641)



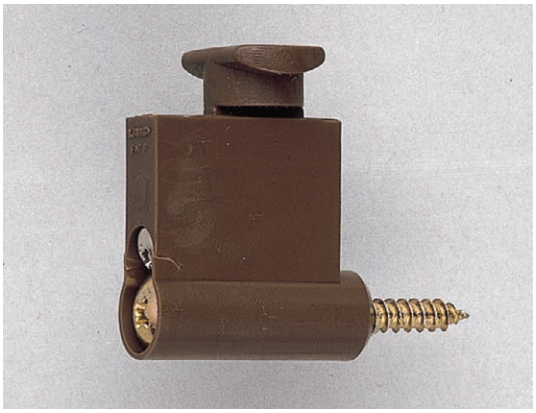
■Cut Out Dimensions



Item Code	Item Name	Key Type	Glass Thickness	Weight	Box	Carton
150-061-103	XL-GC03-CR-B	Key Different	8	400 g	1 pc	24 pcs
150-001-055	XL-GC03-CR-D	Key Alike	8	400 g	1 pc	24 pcs

RUNNER FOR SLIDING DOOR

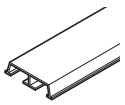
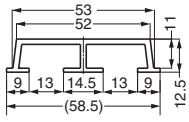
ASDF-1



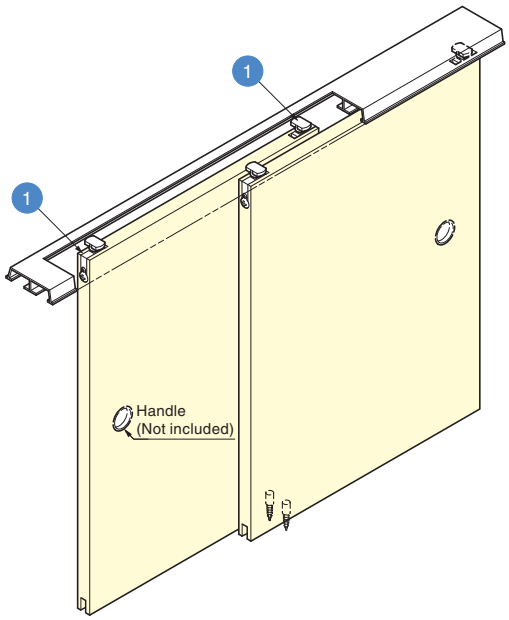
Door Thickness	16～20 mm
Door Weight	Max. 4 kg
Vertical Adjustment	3 mm
Door Type	2 Panels (Inset)

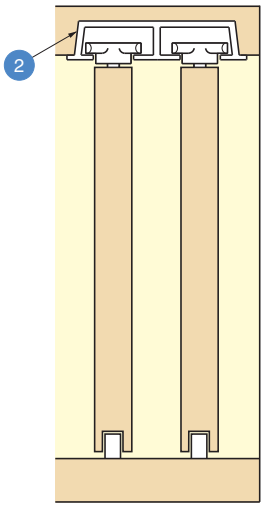
■Features

- Inset type.
- Adjustable for door height.
- Upper Rail also available (Sold Separately).

No.	Item Code	Part Name	Dimensions	Description
1	250-120-075 Item Name: ASDF-1	Runner 	–	2 pcs per door are necessary. ●Material Plastic ●Colour Brown
2	250-129-035 Item Name: GR1820	Upper Rail (1820 mm) 		●Material Polyviny Chlorides ●Colour Brown

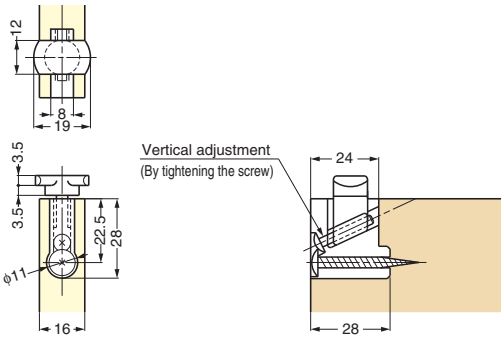
Bottom guide and handle are not included.



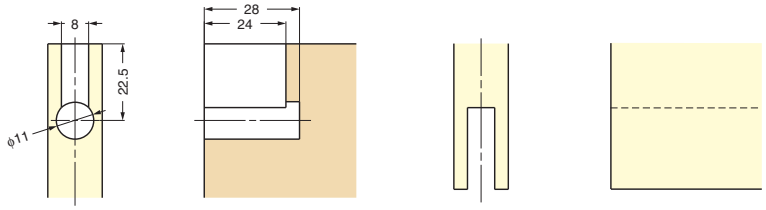


Upper rail 2
Mortise dimension
Width 52.2
Depth 11.5

■Installation



■Cut Out Dimensions



FOLDING DOOR SYSTEM

KF28



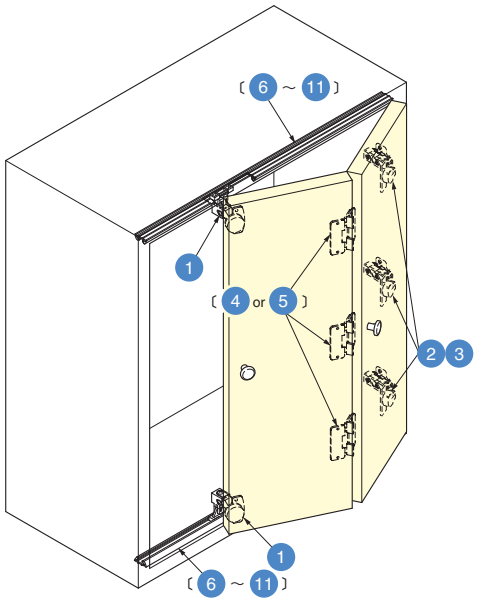
Door Width	Max. 450 mm/Door
Door Height	Max. 2400 mm
Door Thickness	15 - 20 mm
Door Weight	Max. 7 kg/Door※1
Coverage	19 mm
Door Type	2 Folding Door (Overlay)

※1 Door weight has priority over door size.

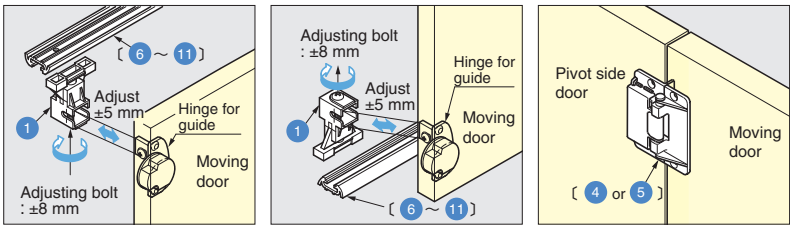
Overlay folding door with concealed hinges.

■Features

- Easy installation of surface mount rails.
- Adjustable with sliding guide parts.



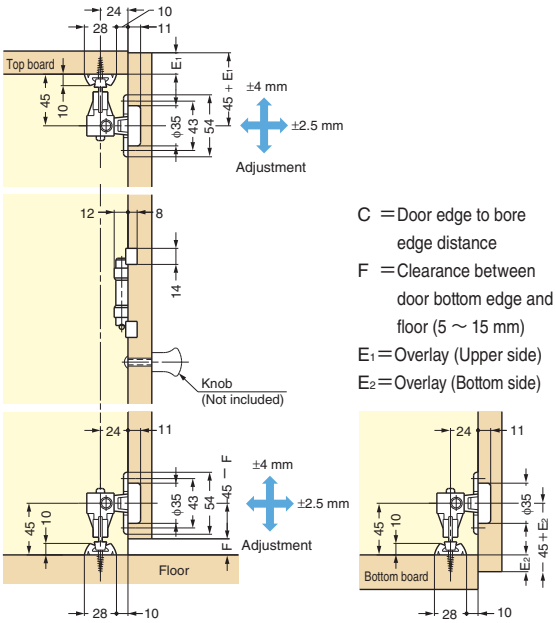
■Installation



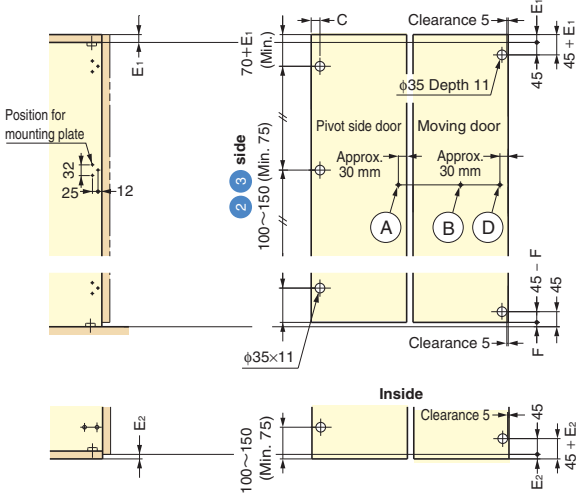
Door Height	Concealed Hinge 2 3	Centre Hinge 4 5
900 mm	2 pcs	2 pcs
1600 mm	3 pcs	2 pcs
2000 mm	4 pcs	3 pcs
2400 mm	5 pcs	4 pcs

Coverage at Hinge Door Side	Door Edge to Bore Edge Distance
19 mm	5 mm
18 mm	4 (5) mm
17 mm	3 (4) mm

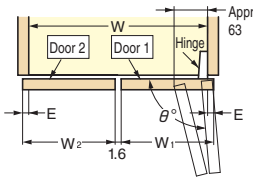
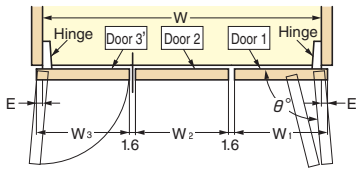
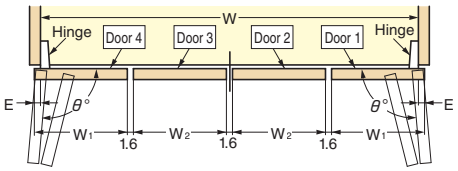
( ) shows hinge adjustable range.



C = Door edge to bore edge distance
F = Clearance between door bottom edge and floor (5 ~ 15 mm)
E1 = Overlay (Upper side)
E2 = Overlay (Bottom side)



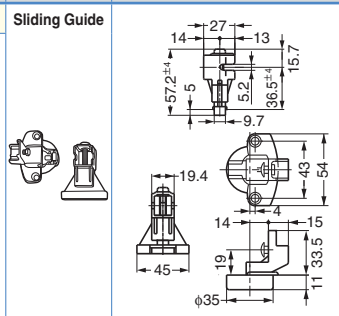
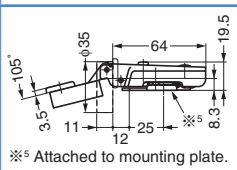
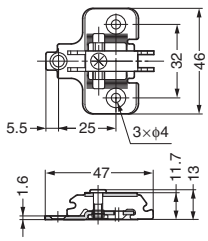
■Door Width

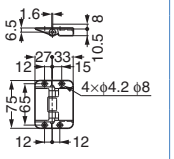
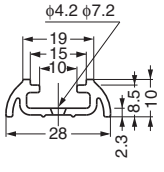
Application	Pivot Side Door at 90° Open	Pivot Side Door at 95° Open	Same Door Width Pivot Side Door at 87° Open
 W : Width of inside cabinet W1 : Width of Door 1 and Door 4 W2 : Width of Door 2 and Door 3 W3 : Width of Door 3 E : Coverage θ° : Opening angle at pivot side door 2 folding doors	$W_1=\frac{W+2E-4.8}{2}$ $W_2=W_1+3.2$	$W_1=\frac{W+2E-7.8}{2}$ $W_2=W_1+6.2$	$W_1=\frac{W+2E-1.6}{2}$ $W_2=W_1$ Opening Angle=87°
 2 folding doors+1 swing door	●$W_3=W_1$ $W_1=W_3=\frac{W+2E-6.4}{3}$ $W_2=W_1+3.2$ ●$W_3=W_2$ $W_1=\frac{W+2E-9.6}{3}$ $W_2=W_3=W_1+3.2$	●$W_3=W_1$ $W_1=W_3=\frac{W+2E-9.4}{3}$ $W_2=W_1+6.2$ ●$W_3=W_2$ $W_1=\frac{W+2E-15.6}{3}$ $W_2=W_3=W_1+6.2$	$W_1=\frac{W+2E-3.2}{3}$ $W_1=W_2=W_3$ Opening Angle=87°
 2 folding doors+2 folding doors	$W_1=\frac{W+2E-11.2}{4}$ $W_2=W_1+3.2$	$W_1=\frac{W+2E-17.2}{4}$ $W_2=W_1+6.2$	$W_1=\frac{W+2E-4.8}{4}$ $W_1=W_2$ Opening Angle=87°

Slide Guide Concealed Hinge Mounting Plate Centre Hinge Rail

Necessary Parts

❶ 2 pcs are necessary for a pair of doors. Please order necessary qty of ❷, ❸ and ❹ / ❺ based on door height (refer to chart on P.644). Please order suitable rail ❻ - ⓫ for the application.

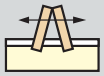
No.	Item Code	Part Name	Dimensions	Description
❶	250-120-029 FD28-SG	Sliding Guide		●Material Zinc Alloy (ZDC) Polyacetal (POM) ●Finish Body : Nickel
❷	160-070-036 230-26/19T	Concealed Hinge	 ※5 Attached to mounting plate.	●Material Steel ●Finish Nickel
❸	160-070-041 230-P4W-32T	Mounting Plate		●Material Steel ●Finish Nickel

No.	Item Code	Part Name	Dimensions	Description
❹	250-129-208 CH-75NI Nickel	Centre Hinge	 	●Material Zinc Alloy (ZDC) Polyamide (PA) Polyacetal (POM) Hinge Axis : Steel ●Finish Body : Nickel (NI) Bronze (GB)
❺	250-120-031 CH-75GB Bronze			
❻	250-120-039 FD28-910-SIL Silver 910 mm	Rail Pitch End : 25 mm		●Material Aluminium Alloy ●Finish Anodized/Silver
❼	250-120-037 FD28-1220-SIL Silver 1220 mm			
❽	250-120-035 FD28-1820-SIL Silver 1820 mm			
❾	250-120-038 FD28-910-GB Bronze 910 mm			●Material Aluminium Alloy ●Finish Anodized/Bronze
❿	250-120-036 FD28-1220-GB Bronze 1220 mm			
⓫	250-120-034 FD28-1820-GB Bronze 1820 mm			

FOLDING DOOR SYSTEM

FD30-F



	a	b	c	d
Item Code	250-017-905	250-017-908	250-018-312	250-018-316
Item Name	FD30FKP	FD30UKP	FD30URP	FD30UMP
Application	 Standard Folding (One Pivot Fixed)	 Standard Folding with Roller (One Pivot Fixed)	 Slidable (For Partition Use)	 Slidable (For Cabinet Use)
Door Width	Max. 450 mm			
Door Height	Max. 2400 mm			
Door Thickness	Min. 30 mm			
Door Weight	Max. 15 kg/Door			

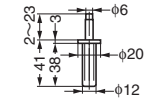
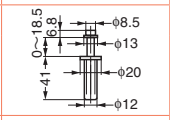
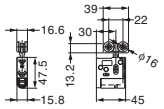
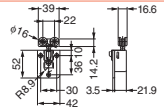
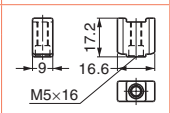
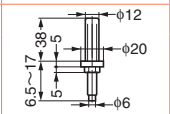
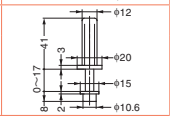
Parts Set (Per Door)

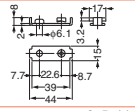
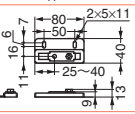
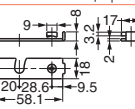
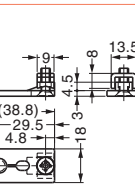
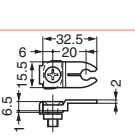
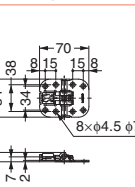
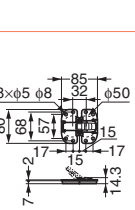
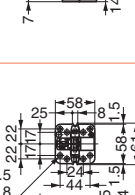
Necessary Parts

Please refer to "Qty a - d "for parts included in each set.

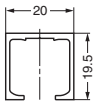
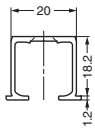
	Item Code	Item Name	Description
a	250-017-905	FD30FKP	For Pivoted Folding Door
b	250-017-908	FD30UKP	For Pivoted Folding w/ Roller
c	250-018-312	FD30URP	For Slidable Folding (For Partition Use)
d	250-018-316	FD30UMP	For Slidable Folding (For Cabinet Use)

Parts Included

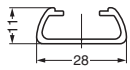
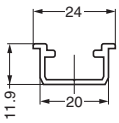
No.	Qty a	Qty b	Qty c	Qty d	Part Name	Dimensions	Description
1	1 pc	–	–	–	Upper Pivot		Item Code : 250-017-162 Item Name : FD30-FTP ●Material Steel / Polyamide ●Finish Chromate / White
2	1 pc	–	–	–	Guide Roller		Item Code : 250-017-140 Item Name : FD30-FGRU ●Material Steel / Polyamide ●Finish Chromate / White, Black
3	–	2 pcs	2 pcs	–	Upper Roller (Recessed Mount)		Item Code : 250-026-120 Item Name : FD30-WRH ●Material Zinc Alloy Polyacetal ●Finish Chromate / Light Brown
4	–	–	–	2 pcs	Upper Roller (Side Mount)		Item Code : 250-017-142 Item Name : FD30-WRU ●Material Steel / Polyacetal ●Finish Chromate / Brown
5	–	1 pc	–	–	Stopper Block		Item Code : 250-017-139 Item Name : FD30-HSB ●Material Polyacetal ●Finish Dark Brown
6	1 pc	1 pc	–	–	Bottom Pin		Item Code : 250-017-163 Item Name : FD30-FBP ●Material Steel / Polyacetal ●Finish Chromate / White
7	–	–	2 pcs	2 pcs	Guide Pin		Item Code : 250-017-164 Item Name : FD30-FGR ●Material Steel / Polyacetal ●Finish Chromate / White
8	1 pc	1 pc	1 pc	1 pc	Pin Insert Jig		Item Code : 250-017-169 Item Name : FD30-FSJ
9	1 pc	1 pc	–	–	Spanner Wrench		Item Code : 250-017-168 Item Name : FD30-FSP
10	–	–	–	–	Top Bracket		Item Code : 250-017-165 Item Name : FD30-FSK ●Material Steel ●Finish Chromate

No.	Qty a	Qty b	Qty c	Qty d	Part Name	Dimensions	Description
11	1 pc	–	–	–	Pivot Bracket (Upper)		Item Code : 250-017-141 Item Name : FD30-FSKU ●Material Steel ●Finish Chromate
12	1 pc	1 pc	–	–	Pivot Bracket (Bottom)		Item Code : 250-017-170 Item Name : FD30-FPU ●Material Steel ●Finish Chromate
13	–	1 pc	–	–	Fixing Plate		Item Code : 250-017-144 Item Name : FD30-FKK ●Material Steel ●Finish Chromate
14	–	–	2 pcs	2 pcs	Upper Stopper		Item Code : 250-017-143 Item Name : FD30-FTST ●Material Steel / Polyacetal ●Finish Chromate / Brown
15							Item Code : 250-019-297 Item Name : FD30-FTST-GR ●Material Steel / Polyacetal ●Finish Chromate / Grey
16	–	–	2 pcs	2 pcs	Bottom Stopper		Item Code : 250-017-166 Item Name : FD30-FBKS ●Material Steel / Polyacetal ●Finish Chromate / Brown
17	3 pcs	3 pcs	–	–	Centre Hinge (Surface Mount, Angle Adjustable)		Item Code : 250-017-146 Item Name : FD30-CHM ●Material Steel ●Finish Chromate / Black
18							Item Code : 250-019-899 Item Name : FD30-CHM-WT ●Material Steel ●Finish Chromate / White
19	–	–	–	3 pcs	Centre Hinge (Recessed Mount, Angle Adjustable, W/Detent Stop)		Item Code : 250-017-147 Item Name : FD30-CHH ●Material Steel ●Finish Black
20							Item Code : 250-019-900 Item Name : FD30-CHH-WT ●Material Steel ●Finish White
21	–	–	3 pcs	–	Centre Hinge (Door Edge, Angle Adjustable, W/Detent Stop)		Item Code : 250-017-167 Item Name : FD30-CHK ●Material Zinc Alloy ●Finish Dark Brown
22							Item Code : 250-019-901 Item Name : FD30-CHK-WT ●Material Zinc Alloy ●Finish White

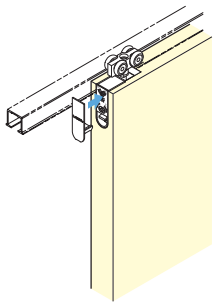
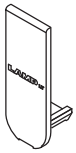
Upper Track Necessary Parts

No.	Installation	Length	Item Code	Dimensions	Description
23	Surface Mount	910 mm	250-017-962 FD30-TRM910SIL		●Material Aluminium ●Finish Anodized Silver
24		1820 mm	250-017-131 FD30-TRM1820SIL		
25		2730 mm	250-017-966 FD30-TRM2730SIL		
26		3640 mm	250-017-970 FD30-TRM3640SIL		
27	Recessed Mount	910 mm	250-017-964 FD30-TRH910SIL		●Material Aluminium ●Finish Anodized Silver
28		1820 mm	250-017-133 FD30-TRH1820SIL		
29		2730 mm	250-017-968 FD30-TRH2730SIL		
30		3640 mm	250-017-972 FD30-TRH3640SIL		

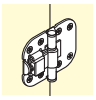
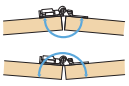
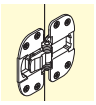
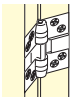
Bottom Guide Track Necessary Parts for c d

No.	Installation	Length	Item Code	Dimensions	Description
31	Floor Surface Mount	910 mm	250-018-080 FD30-FBRM910SIL		●Material Aluminium ●Finish Anodized Silver
32		1820 mm	250-017-160 FD30-FBRM1820SIL		
33		2730 mm	250-018-082 FD30-FBRM2730SIL		
34		3640 mm	250-018-084 FD30-FBRM3640SIL		
35	Floor Recessed Mount	910 mm	250-018-074 FD30-FBRH910SIL		●Material Aluminium ●Finish Anodized Silver
36		1820 mm	250-017-158 FD30-FBRH1820SIL		
37		2730 mm	250-018-076 FD30-FBRH2730SIL		
38		3640 mm	205-018-078 FD30-FBRH3640SIL		

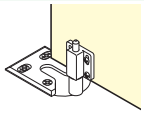
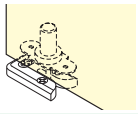
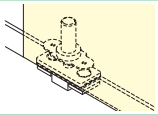
Cover Cap Necessary Parts for b c

No.	Item Code	Item Name	Installation	Description	
39	250-018-785 FD30-WRH-CP-WT	Cover Cap for Upper Roller		End Cap (For Roller 3) 	●Material Polypropylene ●Finish White
40	250-017-138 FD30-WRH-CP				●Material Polypropylene ●Finish Light Brown
41	250-018-786 FD30-WRH-CP-DB				●Material Polypropylene ●Finish Dark Brown

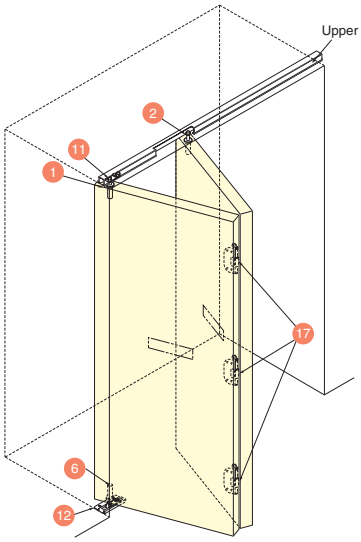
Centre Hinge Necessary Parts

No.	Item Code	Installation	Angle Adjustment	Detent
17	250-017-146 FD30-CHM	 Surface Mount	 +2˚ /-1˚	37˚ Angle
18	250-019-899 FD30-CHM-WT			
19	250-017-147 FD30-CHH	 Recessed Mount	 ±2˚	50˚ Angle
20	250-019-900 FD30-CHH-WT			
21	250-017-167 FD30-CHK	 Door Edge Recessed Mount	 +2˚ /-1˚	47˚ Angle
22	250-019-901 FD30-CHK-WT			

Optional Parts

No.	Item Code	Installation	Description	
42	250-017-171 FD30-FMF		Guide Pin (Magnetic) 	●Material Polycarbonate Neodymium ●Finish Dark Brown
43	250-017-173 FD30-FTF		Guide Pin (Pin) 	●Material Polyamide / Steel ●Finish White / Chromate
44	250-017-172 FD30-FHL		Latch Unit (To be Used When Ordering c, d) 	●Material Polyacetal ●Finish Dark Brown

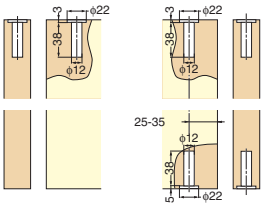
a Pivoted Folding Door - Surface Mount Hinge



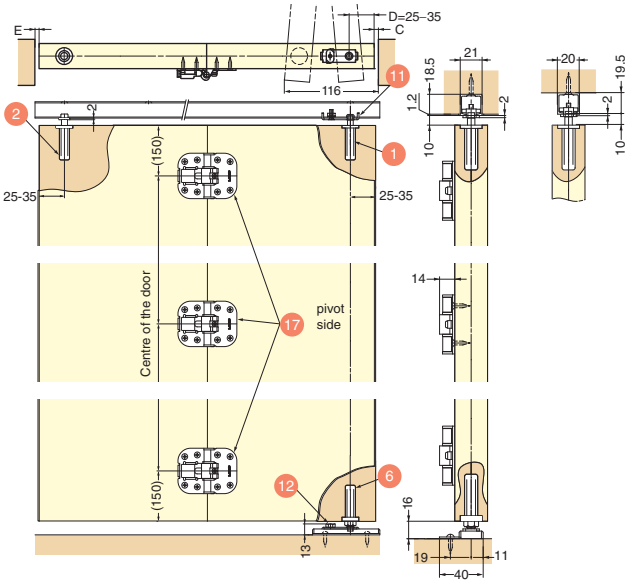
■Features

Centre Hinge has angle adjustment, detent stop feature and is mounted on surface at back side of door for easy installation.

■Door Preparation



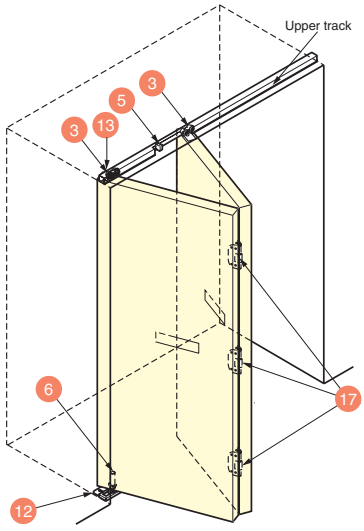
■Installation Example (In case of 40 mm thick, 450 mm wide door)



■Gap Required - Door and Frame

Door Thickness	Gap C Min.	Gap E Min. in Case D=30			
		Width 300	Width 350	Width 400	Width 450
30	4.0	3.5	3.0	2.7	2.4
35	5.2	4.3	3.7	3.3	3.0
40	6.5	5.2	4.5	4.0	3.6

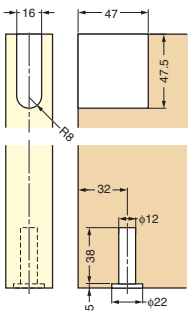
b Pivoted Folding Door (With Roller) - Surface Mount Hinge



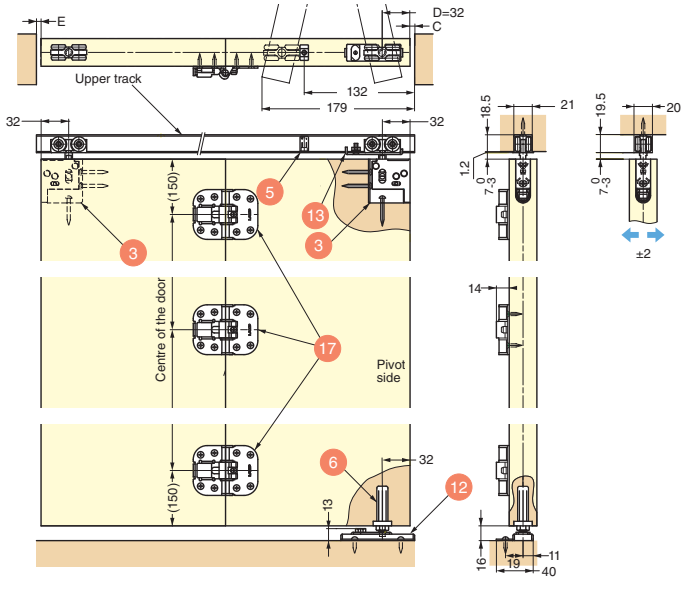
■Features

Centre Hinge has angle adjustment, detent stop feature and is mounted on surface at back side of door for easy installation.

■Door Preparation



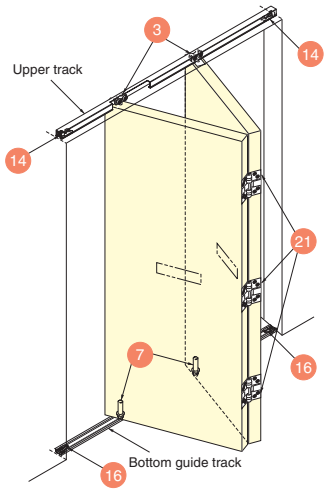
■Installation Example (In case of 40 mm thick, 450 mm wide door)



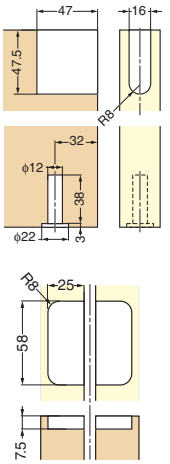
■Gap Required - Door and Frame

Door Thickness	Gap C Min.	Gap E Min. in Case D=30			
		Width 300	Width 350	Width 400	Width 450
30	4.0	3.5	3.0	2.7	2.4
35	5.2	4.3	3.7	3.3	3.0
40	6.5	5.2	4.5	4.0	3.6

c Slidable Folding Door – Door Edge Recessed Mount Hinge



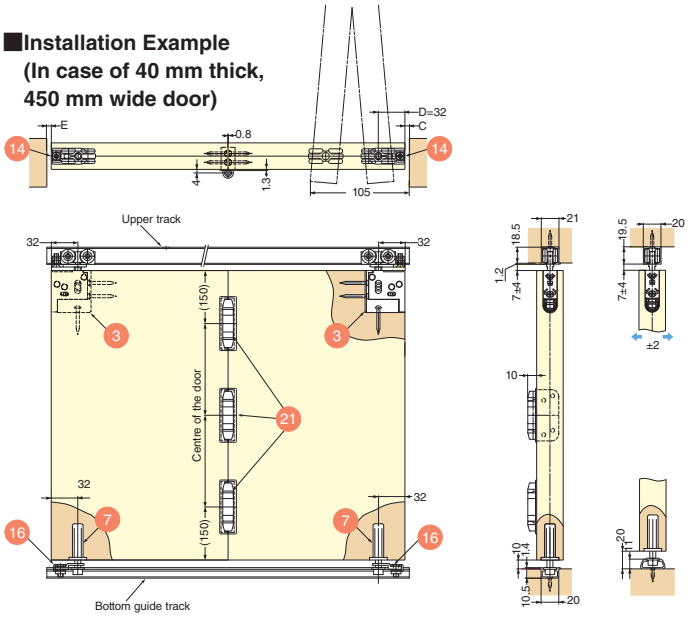
■Door Preparation



■Features

- Centre Hinge has angle adjustment, detent stop feature and is mounted in recess at door edge which is invisible from both side.
- Detent centre hinge allows the folding door to slide freely for easy access and to maximize the space.

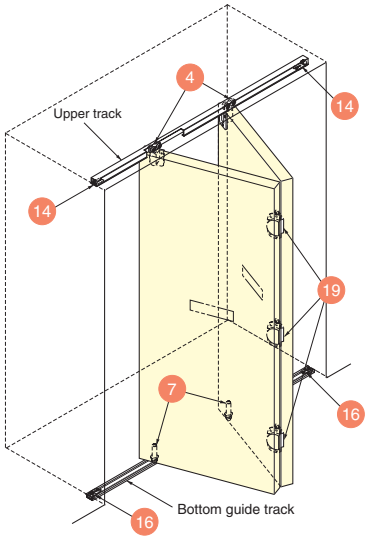
■Installation Example (In case of 40 mm thick, 450 mm wide door)



■Gap Required - Door and Frame

Door Thickness	Gap C Min.	Gap E Min. in Case D=30			
		Width 300	Width 350	Width 400	Width 450
30	4.0	3.5	3.0	2.7	2.4
35	5.2	4.3	3.7	3.3	3.0
40	6.5	5.2	4.5	4.0	3.6

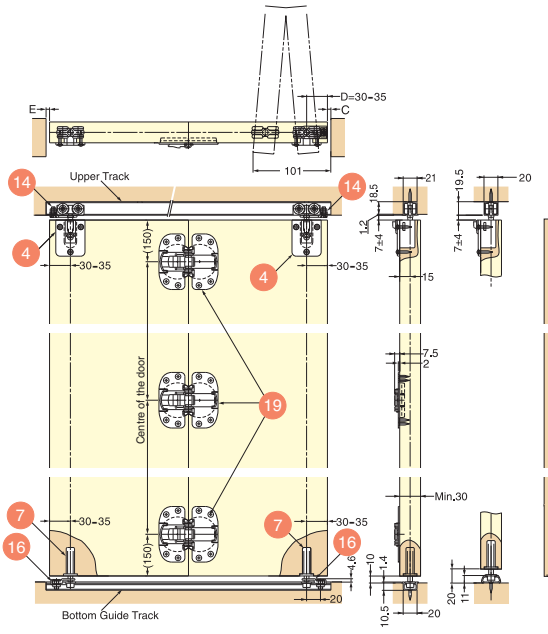
d Slidable Folding Door – Back Side Recessed Mount Hinge



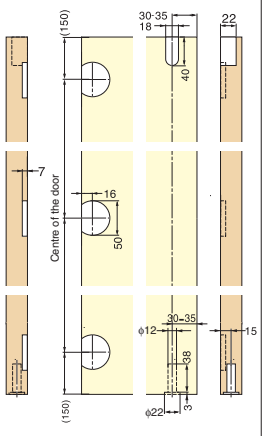
■Features

- Centre Hinge has angle adjustment, detent stop feature and is mounted in recess at back side of door.
- Detent centre hinge allows the folding door to slide freely for easy access and to maximize the space.

■Installation Example (In case of 40 mm thick, 450 mm wide door)



■Door Preparation



■Gap Required - Door and Frame

Door Thickness	Gap C Min.	Gap E Min. in Case D=30			
		Width 300	Width 350	Width 400	Width 450
30	3.6	2.4	2.1	1.9	1.7
35	5.8	3.0	2.6	2.3	2.1
40	8.5	3.5	3.1	2.7	2.5

ROTATING CABINET SYSTEM

STAINLESS 304 STEEL

RB-600





Cabinet Width	Max. 680 mm
Cabinet Height	Max. 1925 mm
Overall Height	RB-600-NC···Cabinet Height+230 mm RB-600-ST ···Cabinet Height+435 mm RB-600-CH···Cabinet Height+660 mm
Cabinet Depth	300 mm
Load Capacity	740 N (75.5 kgf) (Including Cabinet Weight)

■Features

Video Link

- Innovative "reversible" cabinet system rotates 180˚ for easy access to both sides.
- 3 model types available: Inset Wall Type (NC), Floor Type (ST), and Floor-to-Ceiling Type (CH).
- Stainless steel frame can be cut in height to accommodate cabinets of various heights.
- Useful for a variety of storage and display installations in residential and retail settings.

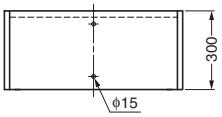
■Application Example

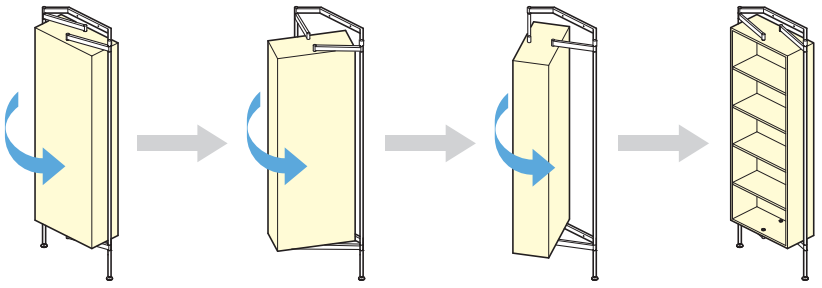
Bathroom cabinet, living room, kitchen, dressing room, store etc.

■Remarks

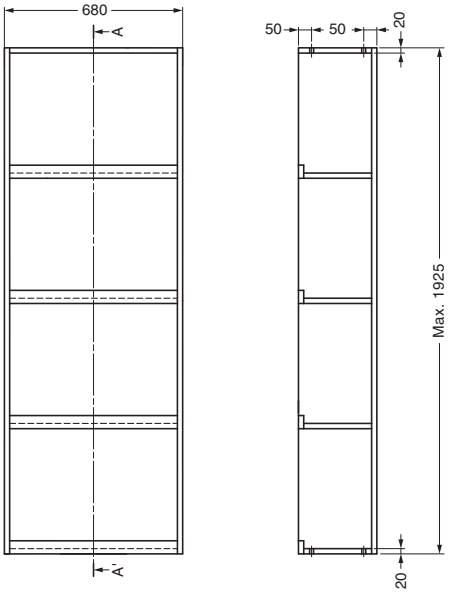
Please use the special tool Z059 (sold separately for proper installation).

■Cabinet Dimensions

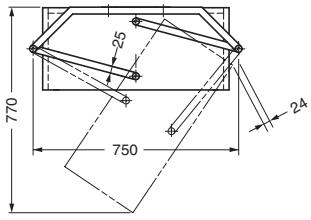




RB-600-ST



■Rotating Dimensions (cabinet width 680 mm)



■Body

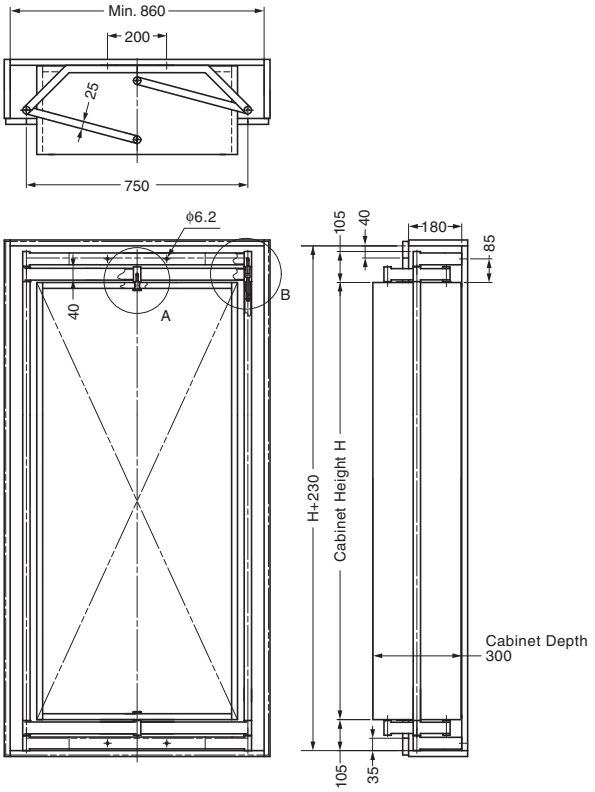
Item Code	Item Name	Type	Material	Finish
110-022-225	RB-600-NC	Inset Wall/Cabinet Type	Stainless Steel (SUS304)	Satin
110-022-224	RB-600-ST	Floor Type	Stainless Steel (SUS304)	Satin
110-022-223	RB-600-CH	Floor-to-ceiling Type	Stainless Steel (SUS304)	Satin

■Exclusive Tool (Sold Separately)

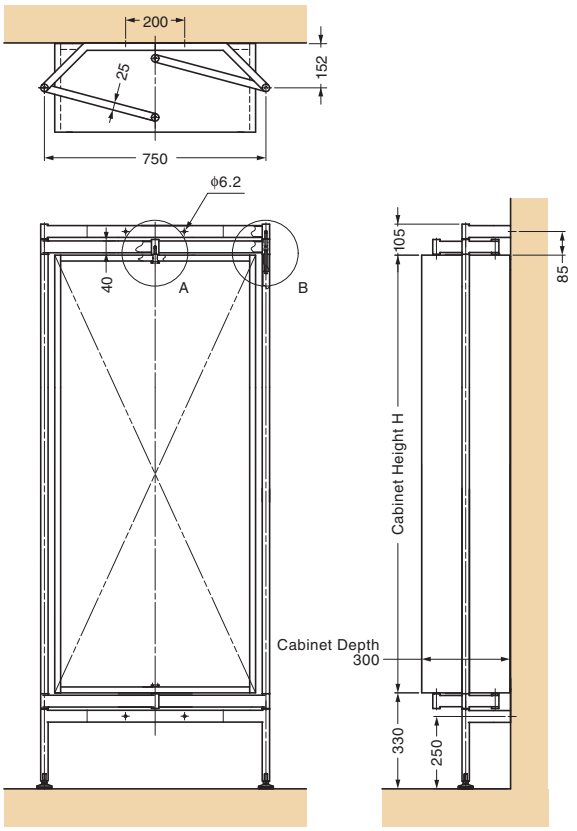
Item Code	Item Name
270-180-388	Z059

■Installation Example

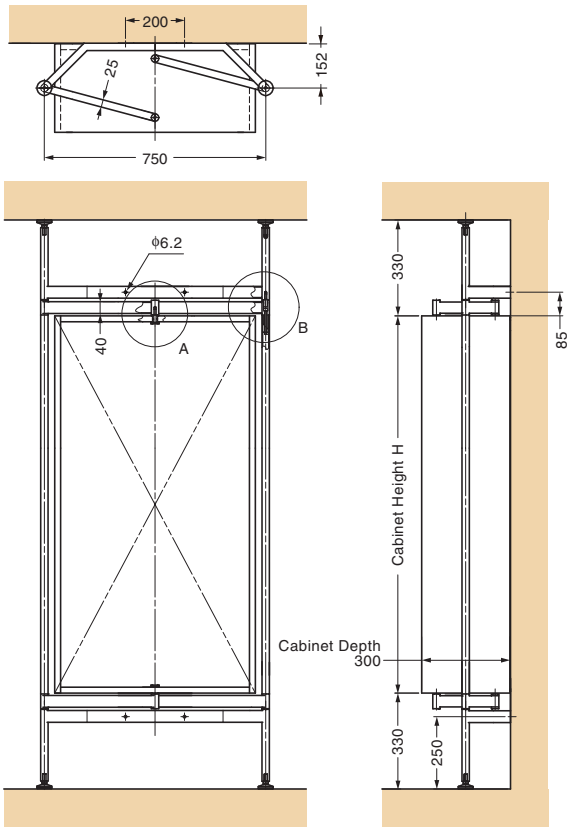
RB-600-NC　Inset wall/cabinet type



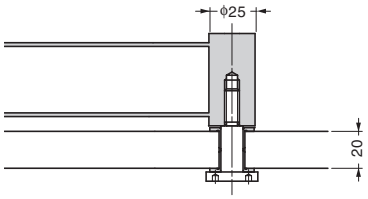
RB-600-ST　Floor type



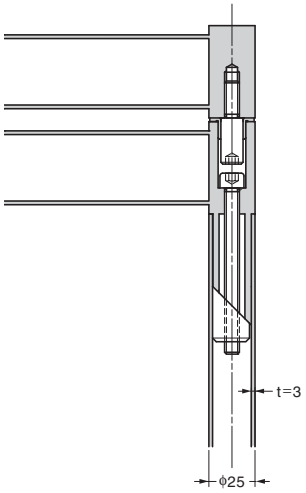
RB-600-CH　Floor-to-ceiling type



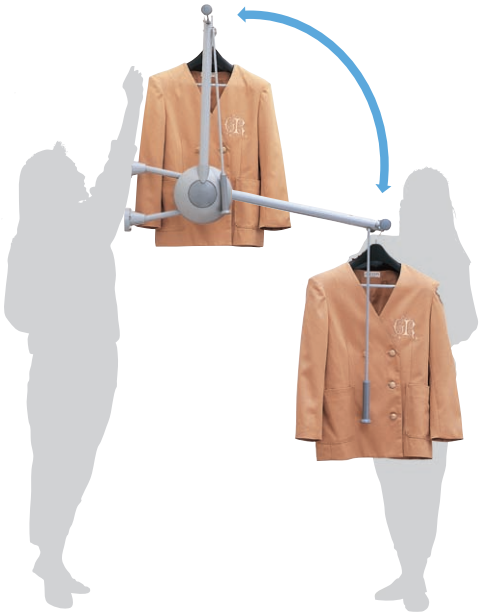
■Close-up of A



■Close-up of B



TALLMAN CLOSET ROD LIFT MECHANISM



Video Link



- Innovative closet storing mechanism to hang clothes in high places, allowing for your closet space to be utilized more efficiently.
- Equipped with a shock absorbing mechanism.
- Designed to soften sudden "pop-ups" even when rod is released halfway.
- Allows the closet rod to stay at position when the rod is pulled all the way down.

■Easy to Use



Easy to return the rod to normal position.

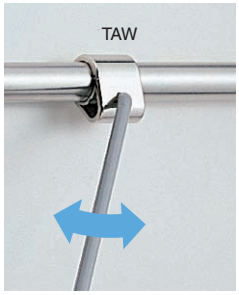
■Simple Installation





Install mounting plate on the wall, fasten rod unit to the mounting plate with one hidden screw.

■Size Variation





Flexible pull-down rod allows smooth operation.



We offer single, double or T-type to accommodate your space requirements.

■Lower Hanging Pipe



CLOSET ROD LIFT MECHANISM (SINGLE TYPE) TAS

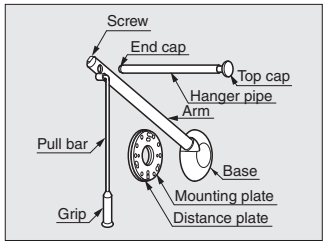


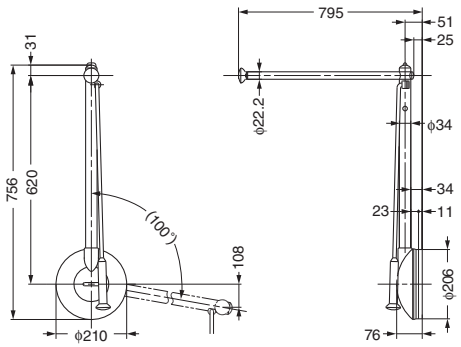
■Features

- Single-type model for installation on a side wall of a cabinet or closet.
- Both right-handed and left-handed models available.

■Parts Included

Countersunk head wood screw
4.1x32





Item Code	Item Name	Type	Material	Colour	Load Capacity		Weight	Box	Carton
110-029-228	TAS-800R-G	Right-Hand	Polystyrene (PS)/Steel	Grey	39.2～49 N	4～5 kgf	6 kg	1 set	3 sets
110-029-229	TAS-800L-G	Left-Hand	Polystyrene (PS)/Steel	Grey	39.2～49 N	4～5 kgf	6 kg	1 set	3 sets
110-029-230	TAS-800R-U	Right-Hand	Polystyrene (PS)/Steel	Umber	39.2～49 N	4～5 kgf	6 kg	1 set	3 sets
110-029-231	TAS-800L-U	Left-Hand	Polystyrene (PS)/Steel	Umber	39.2～49 N	4～5 kgf	6 kg	1 set	3 sets

CLOSET ROD LIFT MECHANISM (DOUBLE TYPE) TAW



■Features

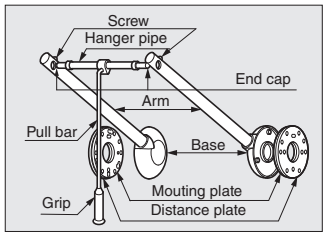
- Double-type model for installation on side walls of a cabinet or closet, using it in full width.
- Easy adjustment of rod length in just one step.

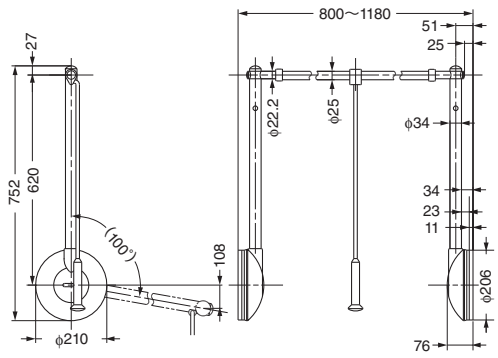
■Remarks

Not possible to cut the hanger pipe.

■Parts Included

Countersunk head wood screw
4.1x32





Item Code	Item Name	Material	Colour	Load Capacity		Weight	Box	Carton
110-029-001	TAW-1200-G	Polystyrene (PS)/Steel	Grey	68.6～78.4 N	7～8 kgf	11 kg	1 set	2 sets
110-029-000	TAW-1200-U	Polystyrene (PS)/Steel	Umber	68.6～78.4 N	7～8 kgf	11 kg	1 set	2 sets

CLOSET ROD LIFT MECHANISM (T-TYPE) TAT

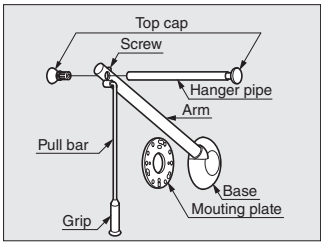


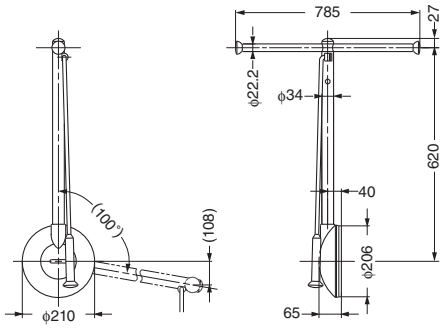
Features

- TAB, the bracket required for installation is sold separately.
- Create space more efficiently by separating short and long clothes.

Parts Included

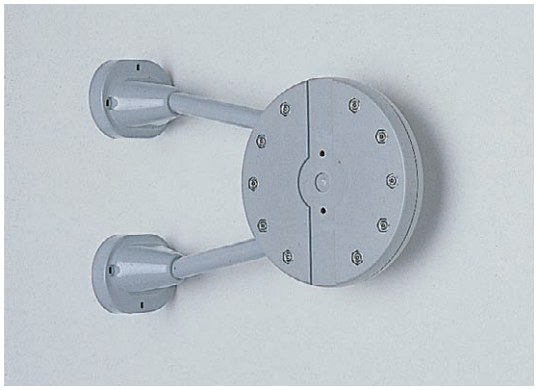
Countersunk head wood screw
4.1x20

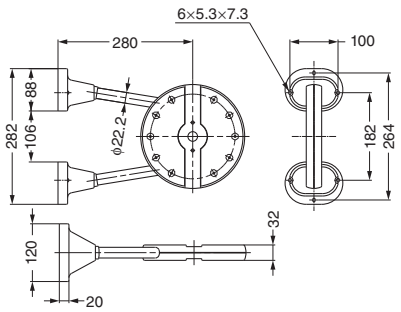




Item Code	Item Name	Type	Material	Colour	Load Capacity		Weight	Box	Carton
110-029-005	TAT-800R-G	Right-Hand	Polystyrene (PS)/Steel	Grey	39.2～49 N	4～5 kgf	6 kg	1 set	3 sets
110-029-004	TAT-800L-G	Left-Hand	Polystyrene (PS)/Steel	Grey	39.2～49 N	4～5 kgf	6 kg	1 set	3 sets

BRACKET TAB





Features

Back wall mount bracket for TAS, TAW and TAT.

Remarks

Do not use impact driver.

Parts Included

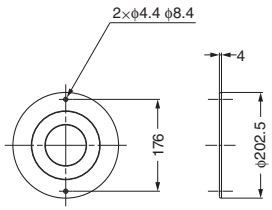
- Wood screw 6 pcs
- Countersunk head screw 16 pcs

Item Code	Item Name	Material	Colour	Weight	Box	Carton
110-020-170	TAB-G	Steel and Polystyrene (PS)	Grey	1.5 kg	1 pc	4 pcs
110-020-171	TAB-U	Steel and Polystyrene (PS)	Umber	1.5 kg	1 pc	4 pcs

COVER FOR TAB BRACKET TAC







Parts Included

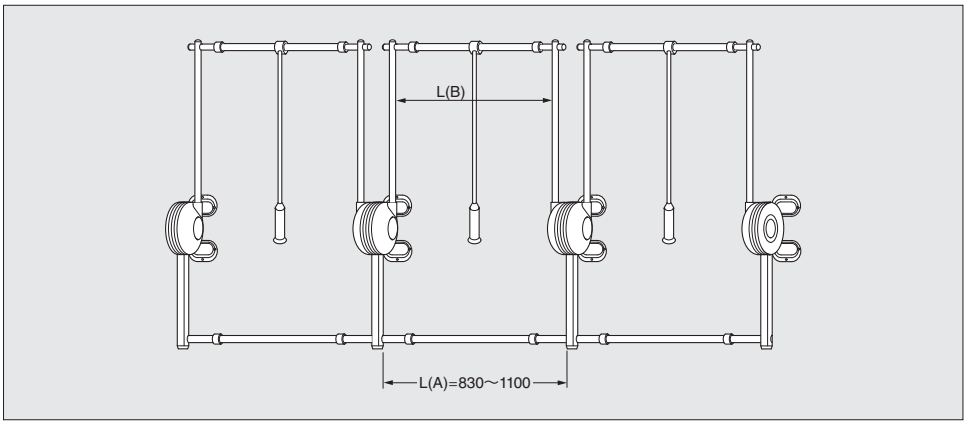
Countersunk head screw 2 pcs

Item Code	Item Name	Material	Colour	Weight	Box
110-020-176	TAC-G	Steel	Grey	0.21 kg	1 pc
110-020-177	TAC-U	Steel	Umber	0.21 kg	1 pc

LOWER HANGING PIPE

TAP, TAL





■Features

Allows to use the space under the unit more effectively.

■Remarks

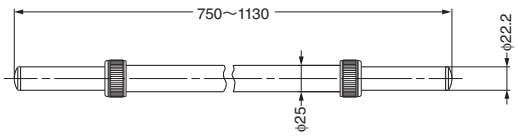
L(B) will be 120 mm shorter than L(A) in case using with TAW.

■Parts Included

Wood screw 2 pcs

■Lower Hanging Pipe (TAP)



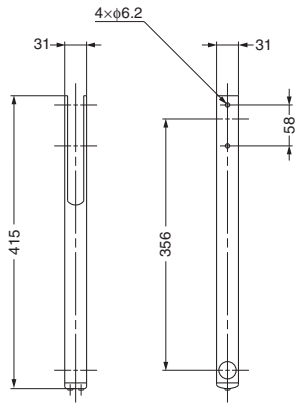


Item Code	Item Name	Material	Colour	Weight	Box
110-020-184	TAP-1200WG	Stainless Clad Pipe	Grey	0.85 kg	1 pc
110-020-185	TAP-1200WU	Stainless Clad Pipe	Umber	0.85 kg	1 pc

■Lower Hanging Pipe Support (TAL)





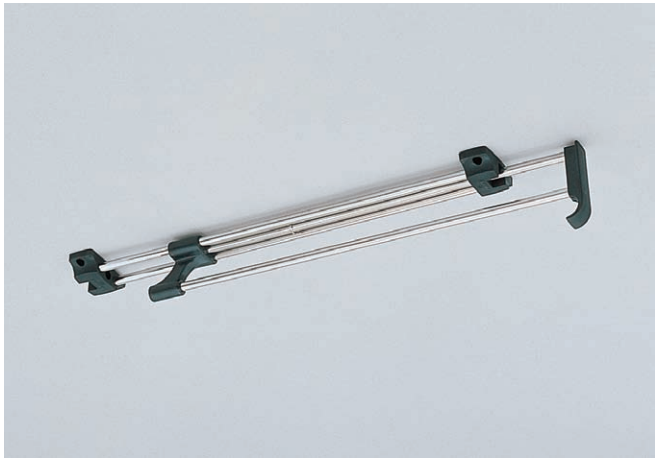


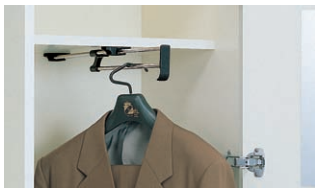
Item Code	Item Name	Material	Colour	Weight	Box
110-020-180	TAL-G	Steel	Grey	0.42 kg	1 pc
110-020-181	TAL-U	Steel	Umber	0.42 kg	1 pc

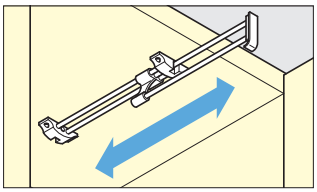
EXTENSION HANGER

TEST METHOD 5 | STEEL

WH





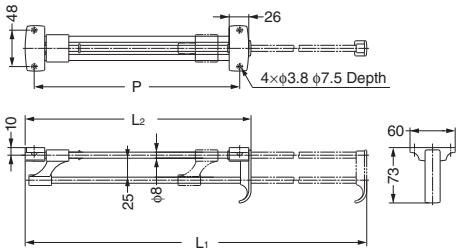


■Features

Space-saving, undermount design for narrow spaces.

■Parts Included

Pan head tapping screw 3.5×20



Part Name	Material	Finish/Colour
Hanger Rod	Steel	Nickel
Retainer Guide	Polyamide (PA)	Black

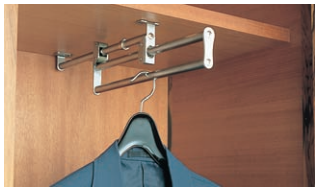
Item Code	Item Name	L1	L2	P	Load Capacity		Weight	Box	Carton
110-020-131	WH-300	498	300	273	58.8 N	6 kgf	485 g	5 pcs	30 pcs
110-020-132	WH-350	570	350	323	49 N	5 kgf	560 g	5 pcs	30 pcs
110-020-133	WH-400	628	400	373	49 N	5 kgf	630 g	5 pcs	30 pcs
110-020-134	WH-450	698	450	423	39.2 N	4 kgf	715 g	5 pcs	30 pcs

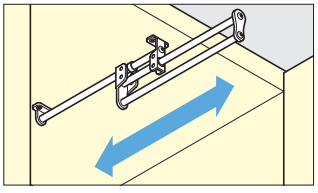
EXTENSION HANGER

TEST METHOD 5 | STAINLESS 430 STEEL | STAINLESS

AS





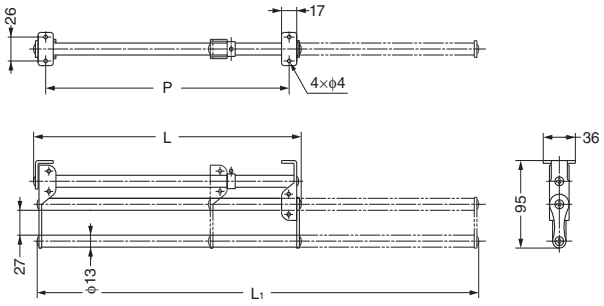


■Features

Space-saving, undermount design for narrow spaces.

■Parts Included

Raised countersunk head wood screw 3.5×25 (SUS)



Item Code	Item Name	Material	Finish	L1	L	P	Load Capacity		Weight	Box	Carton
110-020-138	AS-300	Stainless Steel (SUS430)	Satin	495	300	273	49 N	5 kgf	395 g	5 pcs	50 pcs
110-020-139	AS-330	Stainless Steel (SUS430)	Satin	545	330	303	49 N	5 kgf	420 g	5 pcs	50 pcs
110-020-140	AS-360	Stainless Steel (SUS430)	Satin	598	360	333	49 N	5 kgf	405 g	5 pcs	50 pcs
110-020-141	AS-400	Stainless Steel (SUS430)	Satin	665	400	373	49 N	5 kgf	440 g	5 pcs	50 pcs

EXTENSION HANGER

TEST METHOD 5 | STAINLESS 304 STEEL | STAINLESS

UH





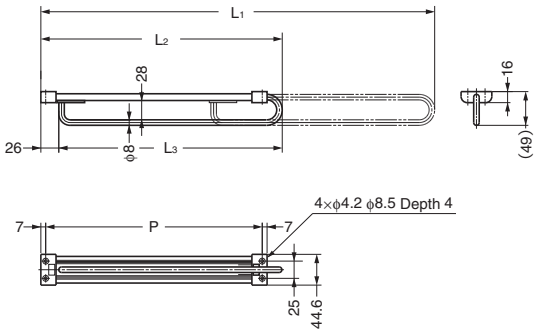


■Features

Space-saving, undermount design for narrow spaces.

■Parts Included

Tapping screw 4×25 (SUS)



Part Name	Material	Finish/Colour
End Cap	Polyamide (PA)	Black
Guide Block	Polyethylene (PE)	Black
Hanger Rod	Stainless Steel (SUS304)	Satin
Rod Retainer	Steel	Chrome

Item Code	Item Name	L1	L2	L3	P	Load Capacity		Weight	Box	Carton
110-021-045	UH-300	491	300	274	264	29.4 N	3 kgf	365 g	5 pcs	30 pcs
110-021-046	UH-350	571	350	324	314	29.4 N	3 kgf	440 g	5 pcs	30 pcs
110-021-047	UH-400	636	400	374	364	29.4 N	3 kgf	505 g	5 pcs	30 pcs
110-021-048	UH-450	721	450	424	414	29.4 N	3 kgf	570 g	5 pcs	30 pcs

EXTENSION HANGER

TEST METHOD 5 | STEEL

TE700, TE800



■Features

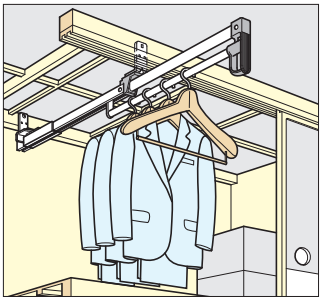
- Space-saving, undermount design for narrow, deep spaces.
- Ideal for wardrobe and large storage furniture which have a deep depth.
- 200 mm rear support can be adjusted for shorter/longer spaces.

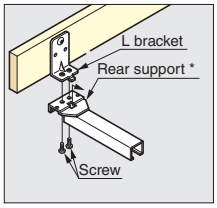
■Remarks

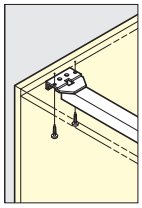
Cabinet depth : TE700 (Min. 700 mm), TE800 (Min. 800 mm).

■Parts Included

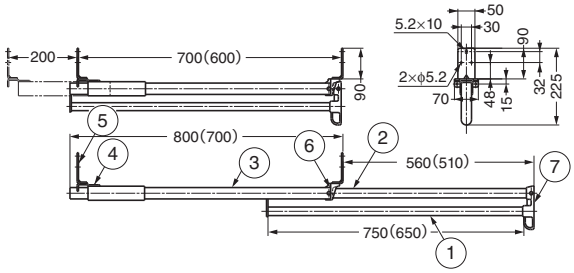
Round head wood screws 4.5×20







* Use L bracket (included) for side-mount.



( ) : TE700

No.	Part Name	Material	Finish/Colour
①	Hanger Pipe	Steel	Chrome
②	Sliding Rail	Steel	Chrome
③	Fix Rail	Steel	Metalic Brown
④	Rear Support	Steel	Metalic Brown
⑤	L Bracket	Steel	Metalic Brown
⑥	Guide Cap	Plastic	Black
⑦	Knob	Plastic	Black

Item Code	Item Name	Length	Travel Length	Depth Dimension	Load Capacity		Weight	Box	Carton
110-020-147	TE-700	700	520	600~800	196 N	20 kgf	2.4 kg	1 pc	6 pcs
110-020-148	TE-800	800	570	700~900	196 N	20 kgf	2.7 kg	1 pc	6 pcs

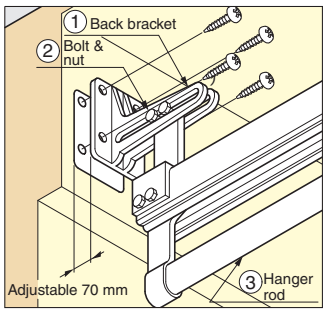
HEAVY DUTY EXTENSION HANGER

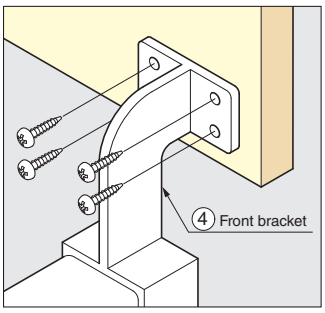
TEST METHOD 5 | STEEL

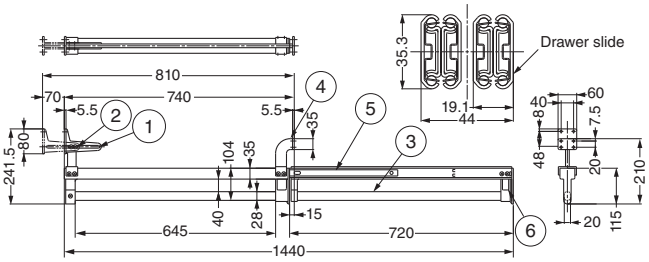
SH740











■**Features**

- Space-saving, undermount design for narrow spaces.
- Drawer slide allows smooth movement.
- Back mounting bracket can be adjusted for shorter /longer spaces (70 mm).

■**Parts Included**

Round head wood screws 4.5×20

No.	Part Name	Material	Finish
①	Back Bracket	Brass	Chrome
②	Bolt・Nut	Steel	Chrome
③	Hanger Rod	Steel	Chrome
④	Front Bracket	Brass	Chrome
⑤	Drawer Slide	Steel	Chrome
⑥	Knob	Brass	Chrome

Item Code	Item Name	Length	Load Capacity		Weight	Box	Carton
110-020-146	SH740	740～810	401.8 N	41 kgf	6.1 kg	1 pc	2 pcs

HANGER BRACKET

TEST METHOD 4 | STAINLESS 304 STEEL | STEEL

CK

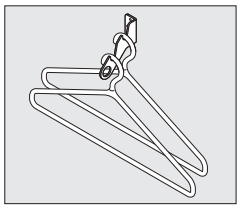


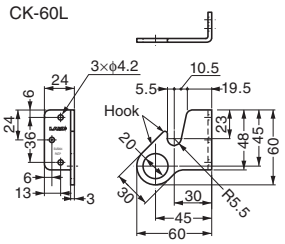
■**Features**

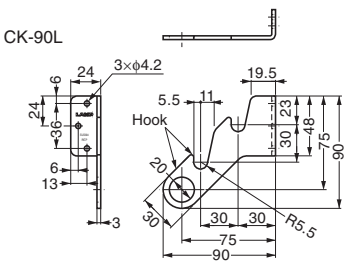
Light duty hanger brackets for garments, umbrellas, etc.

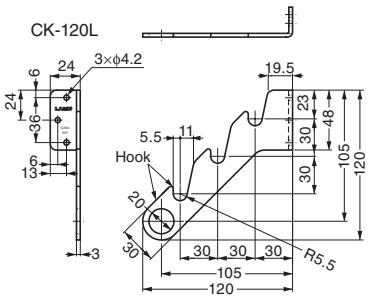
■**Parts Included**

Truss tapping screw 4×20









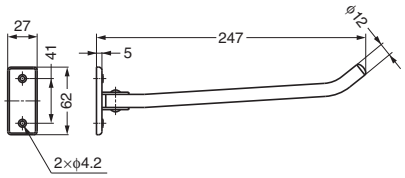
Item Code	Item Name	Material	Finish	Load Capacity/position		Weight	Box	Carton
110-020-260	CK- 60L	Stainless Steel (SUS304)	Satin	14.7 N	1.5 kgf	66 g	15 pcs	150 pcs
110-020-261	CK- 90L	Stainless Steel (SUS304)	Satin	14.7 N	1.5 kgf	90 g	15 pcs	150 pcs
110-020-262	CK-120L	Stainless Steel (SUS304)	Satin	14.7 N	1.5 kgf	113 g	10 pcs	100 pcs

SWINGING HANGER

TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

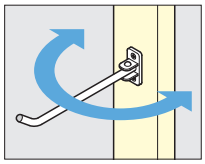
HM-250V





■Parts Included

Raised countersunk head wood screw 3.5×20 (SUS)

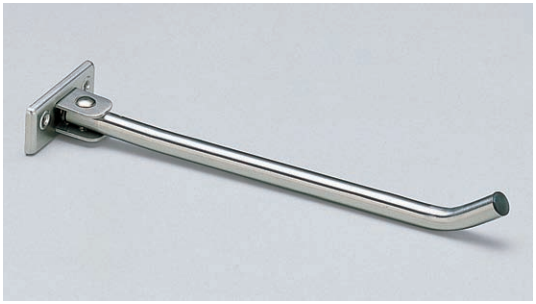


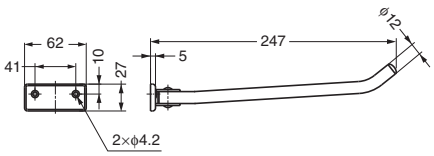
Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box	Carton
110-020-086	HM-250V	Stainless Steel (SUS304)/EPDM	Satin	29.4 N	3 kgf	120 g	10 pcs	100 pcs

SWINGING HANGER

TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

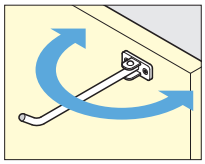
HM-250Y





■Parts Included

Raised countersunk head wood screw 3.5×20 (SUS)

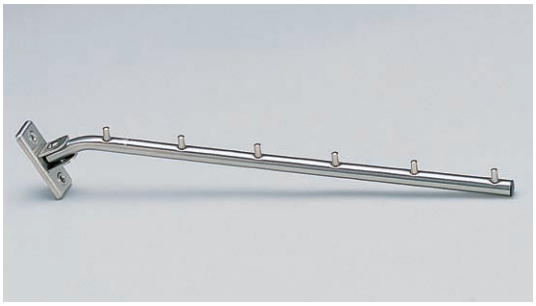


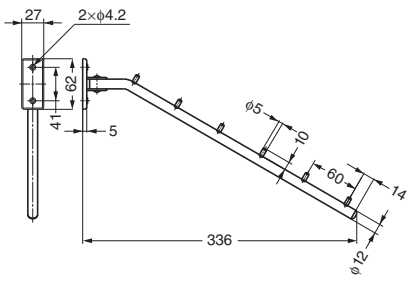
Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box	Carton
110-020-088	HM-250Y	Stainless Steel (SUS304)/EPDM	Satin	29.4 N	3 kgf	136 g	10 pcs	100 pcs

SWINGING HANGER

TEST METHOD 4 | STAINLESS 304 STEEL | STAINLESS

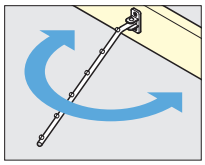
HM-330





■Parts Included

Raised countersunk head wood screw 3.5×20 (SUS)

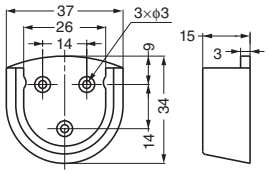


Item Code	Item Name	Material	Finish	Load Capacity		Weight	Box	Carton
110-020-089	HM-330	Stainless Steel (SUS304)/EPDM	Satin	29.4 N	3 kgf	190 g	10 pcs	100 pcs

PLASTIC SOCKET

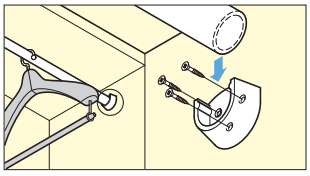
PS-37





■Features

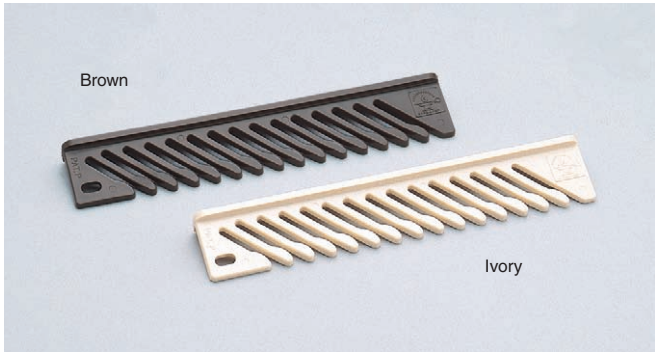
Ideal for holding pipes in wardrobes.



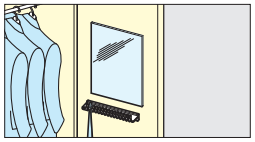
Item Code	Item Name	Material	Colour	Load Capacity		Weight	Box	Carton
110-030-118	PS-37	Polystyrene	White	196 N/2 pcs	20 kgf/2 pcs	8 g	100 pcs	900 pcs

TIE RACK

TIEM

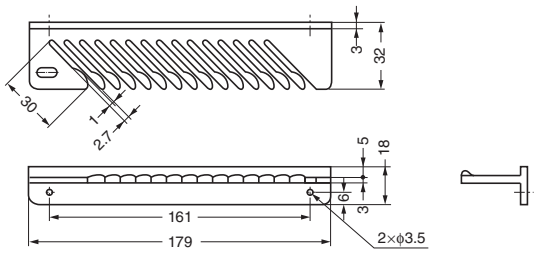


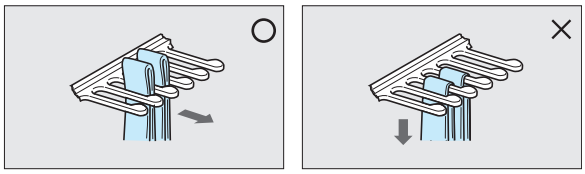
■Application Example



■Remarks

Screws not included.



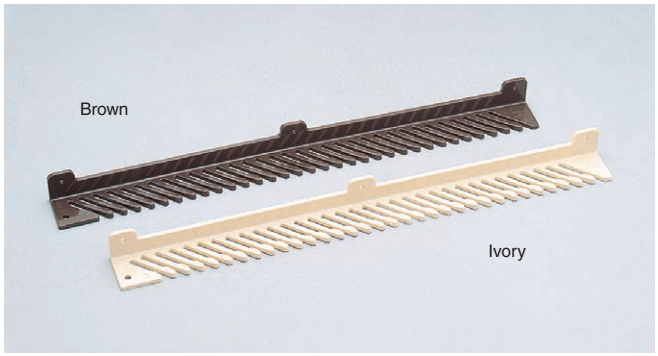


Item Code	Item Name	Material	Colour	Load Capacity/position		Weight	Box	Carton
110-020-124	TIEM-BR	Polycarbonate (PC)	Brown	2.94 N	0.3 kgf	22 g	20 pcs	400 pcs
110-020-125	TIEM-I	Polycarbonate (PC)	Ivory	2.94 N	0.3 kgf	22 g	20 pcs	400 pcs

TIE RACK

STEEL

TIE-33

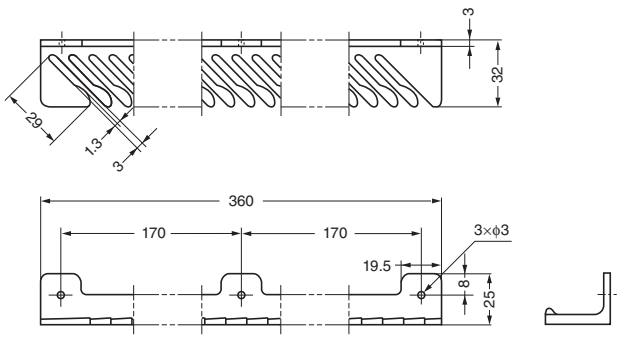


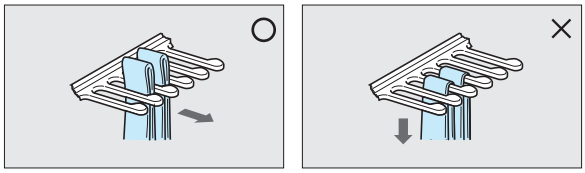
■Application Example



■Parts Included

Wood screws



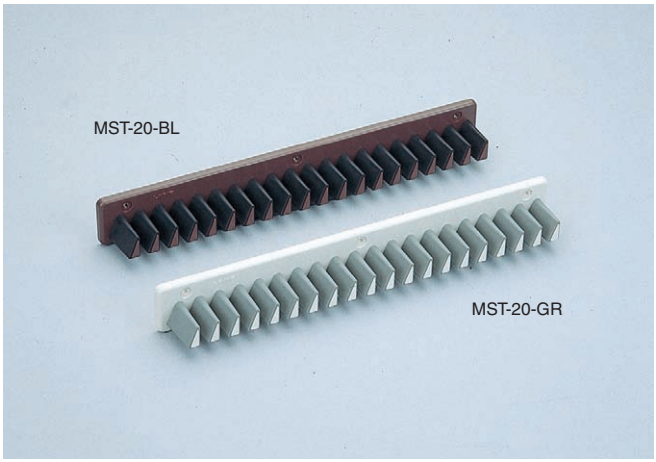


Item Code	Item Name	Material	Colour	Load Capacity/position		Weight	Box	Carton
110-020-126	TIE-33BR	Polycarbonate (PC)	Brown	2.94 N	0.3 kgf	50 g	20 pcs	300 pcs
110-020-127	TIE-33I	Polycarbonate (PC)	Ivory	2.94 N	0.3 kgf	50 g	20 pcs	300 pcs

TIE RACK

STAINLESS

MST-20

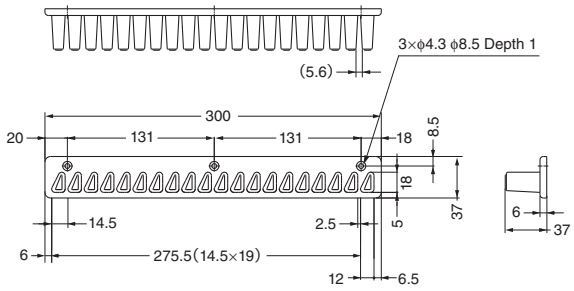


■Features

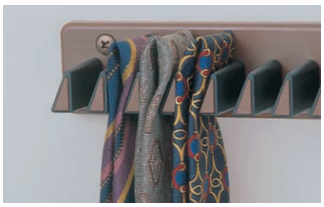
2 ways of holding possible depending on tie thickness.

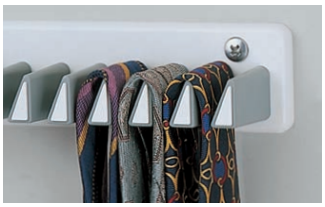
■Parts Included

Binding head tapping screw 4 × 14 (SUS)



■Application Example





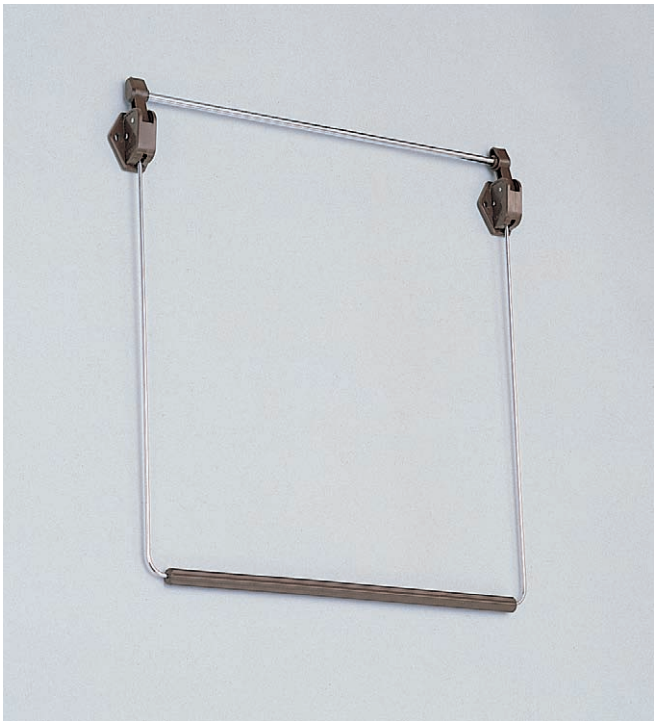
Part Name	Material
Body	ABS
Stopper	Elastomer (TPE)

Item Code	Item Name	Colour	Load Capacity/position		Weight	Box	Carton
110-025-304	MST-20BL	Brown＋Black	2.94 N	0.3 kgf	116 g	10 pcs	120 pcs
110-025-305	MST-20GR	Ivory＋Grey	2.94 N	0.3 kgf	116 g	10 pcs	120 pcs

TIE RACK

STEEL

TR

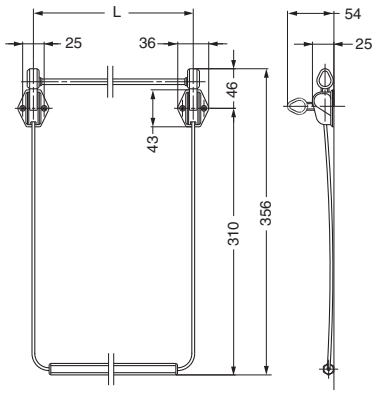


■Features

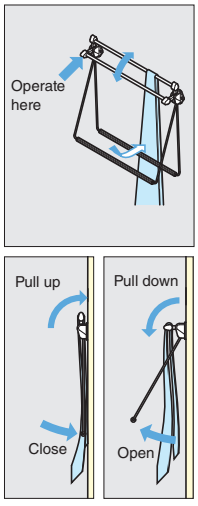
Holding bar keeps the ties tidy.

■Parts Included

Round head wood screw 3.1 × 16



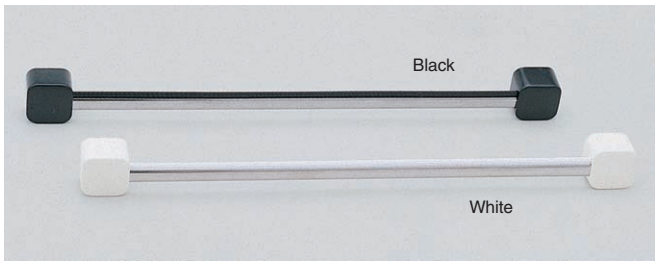
■How to Use



Item Code	Item Name	Material	Colour/Finish	L	Weight	Box	Carton
110-020-110	TR-300	Polyamide (PA) and Polyacetal (POM)/Steel	Brown/Chrome	300	190 g	10 pcs	80 pcs
110-020-111	TR-350	Polyamide (PA) and Polyacetal (POM)/Steel	Brown/Chrome	350	210 g	10 pcs	80 pcs
110-020-112	TR-400	Polyamide (PA) and Polyacetal (POM)/Steel	Brown/Chrome	400	243 g	10 pcs	80 pcs

TIE RACK

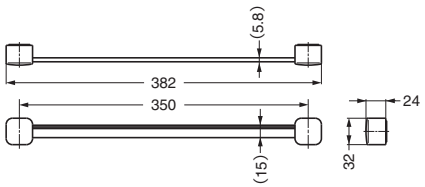
S-350





■Parts Included

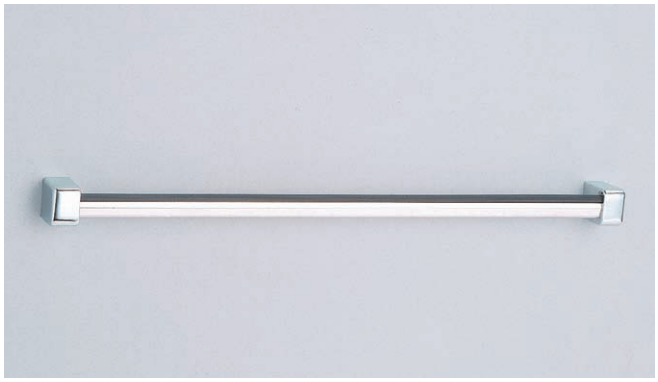
Truss head tapping screw 3 × 16



Item Code	Item Name	Material	Colour/Finish	Weight	Box	Carton
110-020-118	S-350W	ABS/Stainless Steel (SUS304)	White/Polished	80 g	10 pcs	100 pcs
110-020-119	S-350B	ABS/Stainless Steel (SUS304)	Black/Polished	80 g	10 pcs	100 pcs

TIE RACK

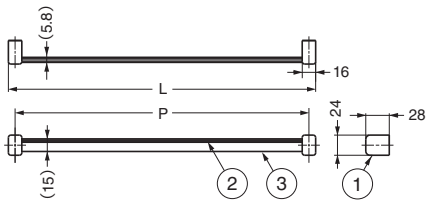
STR



■Parts Included

- Round head wood screw 3.1 × 16 (Chromate)
- Countersunk head screw M3 × 8 (Chrome)

■Installation

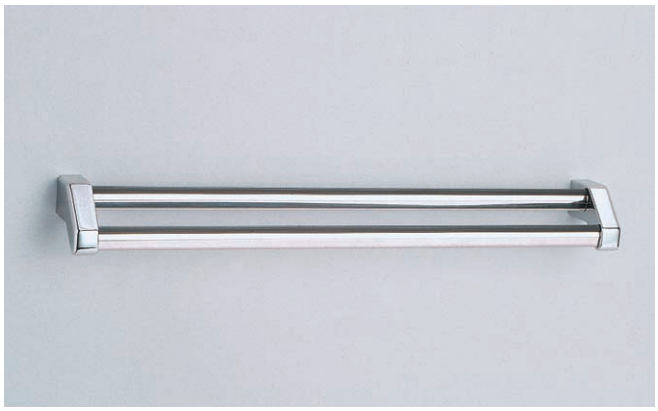


Item Code	Item Name	L	P	Weight	Box	Carton
110-020-244	STR-300	316	300	160 g	10 pcs	60 pcs
110-020-245	STR-350	366	350	170 g	10 pcs	60 pcs
110-020-246	STR-400	416	400	180 g	10 pcs	60 pcs
110-020-153	STR-450	466	450	190 g	10 pcs	60 pcs

No.	Material	Finish/Colour
①	Zinc Alloy (ZDC)	Chrome
②	Vinyl Cloride Resin (PVC)	Black
③	Stainless Steel (SUS304)	Mirror

TIE RACK

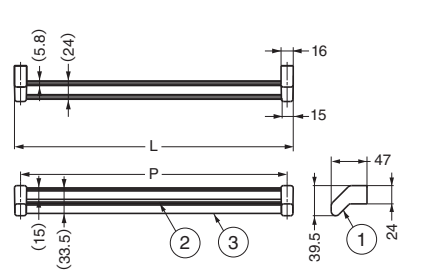
DTR



■Parts Included

- Round head wood screw 3.1 × 16 (Chromate)
- Countersunk head screw M3 × 8 (Chrome)

■Installation



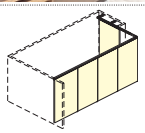
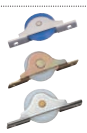
Item Code	Item Name	L	P	Weight	Box	Carton
110-020-154	DTR-350	366	350	250 g	5 pcs	30 pcs
110-020-155	DTR-400	416	400	270 g	5 pcs	30 pcs
110-020-156	DTR-450	466	450	285 g	5 pcs	30 pcs

No.	Material	Finish/Colour
①	Zinc Alloy (ZDC)	Chrome
②	Vinyl Cloride Resin (PVC)	Black
③	Stainless Steel (SUS304)	Mirror

ARCHITECTURAL DOOR HARDWARE

SUGATSUNE

SLIDING DOOR SYSTEMS

Picture	Item Name		Max. Door Weight (kg)	Page
	FD30	SOFT-CLOSING DOOR SYSTEM	30	666～673
	FD35EV	SOFT-CLOSING DOOR SYSTEM	35	709
	FD50	SOFT-CLOSING DOOR SYSTEM	50	674～681
	FD80	SOFT-CLOSING DOOR SYSTEM	80	682～687
	FD80-AF	SOFT-CLOSING DOOR SYSTEM FOR GLASS DOORS	80	688～691
	SRS	SELF-CLOSING DOOR SYSTEM	30	692
	SRW	SELF-CLOSING DOOR SYSTEM	30	693
	LM-80	SELF-CLOSING DOOR SYSTEM	80	694～695
	LM-80G	SELF-CLOSING DOOR SYSTEM FOR GLASS DOORS	80	696～697
	FDP40	PARTITION DOOR SYSTEM	40	699～705
	FDP40L	PARTITION DOOR SYSTEM	40	708
	FD30-MG	MAGNET BOTTOM GUIDE	40	706～707
	FDS, FES, FMS	UNDER MOUNT DOOR ROLLER & RAIL	Load Capacity (kg) 100/2 pcs	698
	AV	UNDER MOUNT DOOR ROLLER & RAIL	—	698

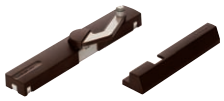
SWING DOOR SYSTEMS

Picture	Item Name	Max. Door Weight (kg)	Page
	AF-25D	40	710～711
	SKD	30	712～713

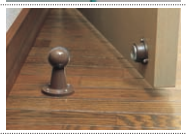
LEVER HANDLES

Picture	Item Name	Page
	ZL-1101, 1102, 1103	714～715
	ZL-1601, 1702	716～717

DOOR DAMPERS

Picture	Item Name	Max. Door Weight (kg)	Page
	LDD-V	40	718
	LDD-S	40	720～721
	LDC-N2	45	722～724

DOOR STOPPERS

Picture	Item Name	Page
	ZL-1801	726
	ZL-1802	726
	ZL-1803	727
	HT-32	727
	BPV-50V	727
	HT-G70	728
	MI, MBR	728
	KI, KBR	729
	DJ-175	729
	KN-120	730
	CS	730

SLIDING DOOR SYSTEM

FD30-H



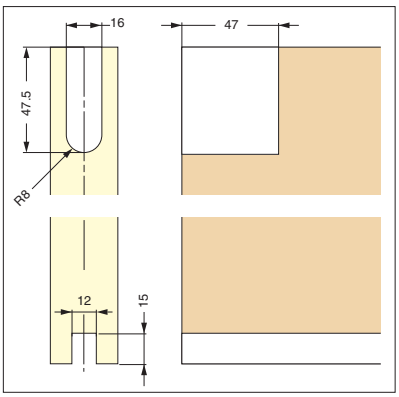
	a Two-Way Soft Close	b One-Way Soft Close	c Standard Sliding	d Standard Sliding
Roller	Recessed Mount	Recessed Mount	Recessed Mount	Side Mount
Door Weight	Max. 30 kg/door			
Door Thickness (Min.)	24 mm	24 mm	24 mm	28 mm
Door Width	590 - 1000 mm	510 - 1000 mm	Max. 1000 mm	Max. 1000 mm
Door Height	Max. 2400 mm			
Height Adjustment	-3/+4 mm	-3/+4 mm	±4 mm	±4 mm
Side Adjustment	±2 mm	±2 mm	±2 mm	–

Features

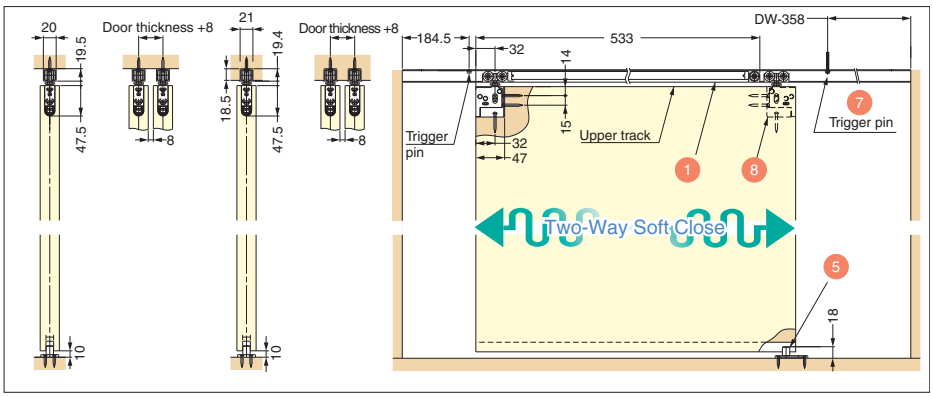
- Thin profile allows flexible design on various applications.
- Damper equipped for soft & silent closing at the end (a b only).
- Various parts available for many applications.

*Designed for interior use, not for exterior.

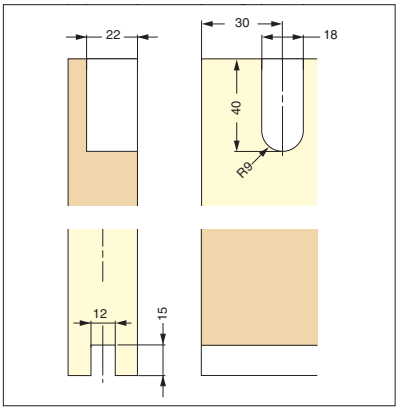
a b c Door Preparation



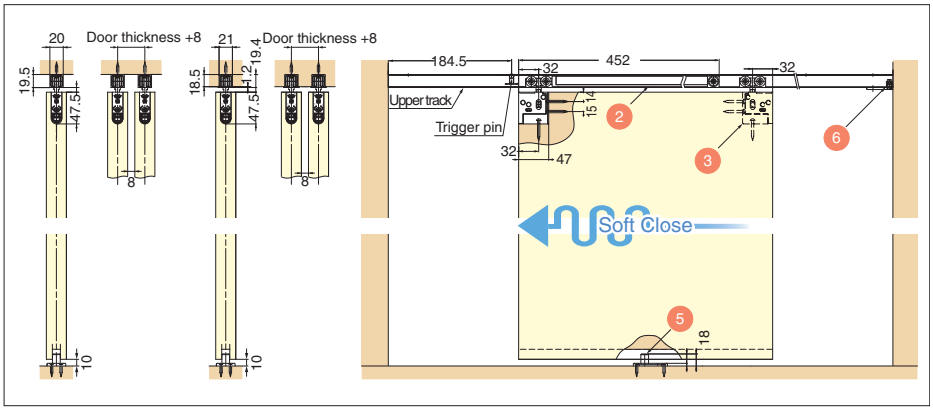
a FD30 / Recessed Mount Roller / Two-Way Soft Close



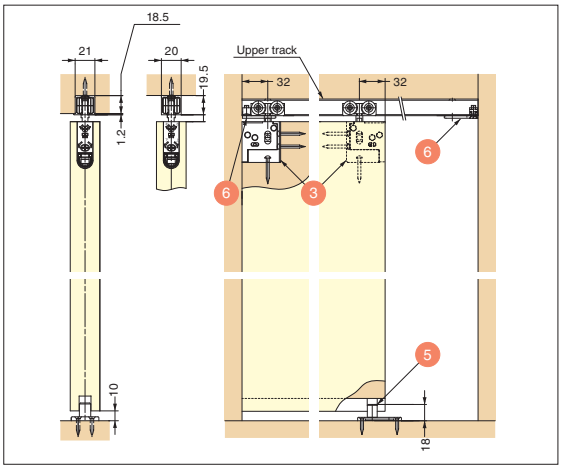
d Door Preparation



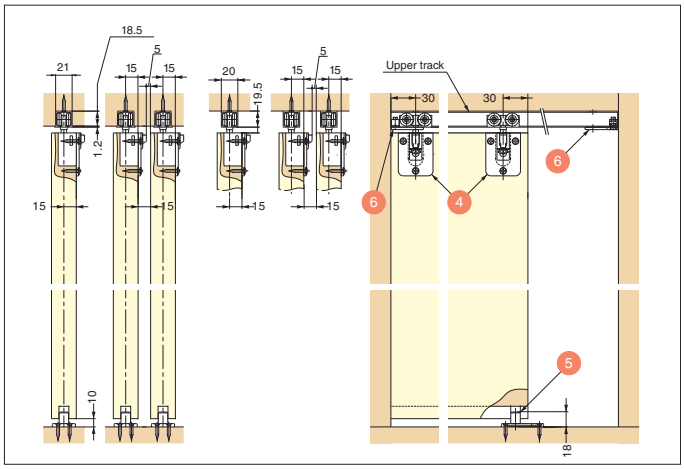
b FD30 / Recessed Mount Roller / One-Way Soft Close



c FD30 / Recessed Mount Roller / Standard Sliding



d FD30 / Side Mount Roller / Standard Sliding



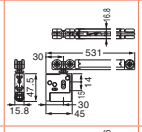
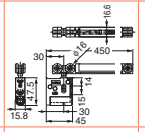
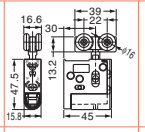
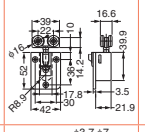
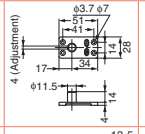
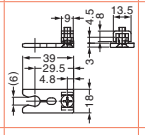
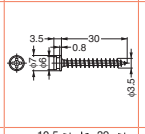
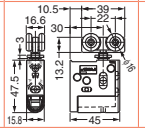
Parts Set (Per Door)

Necessary Parts

Please refer to "Qty [a] - [d] "for parts included in each set.

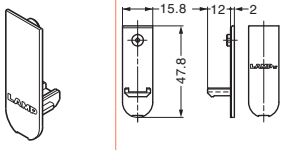
	Item Code	Item Name	Description
a	250-020-829	FD30-DHCP	Recessed Roller Two-Way Soft Close
b	250-017-901	FD30-HCP	Recessed Roller One-Way Soft Close
c	250-017-903	FD30-HHP	Recessed Roller Standard Sliding
d	250-017-904	FD30-HUP	Side-Mount Roller Standard Sliding

Parts Included

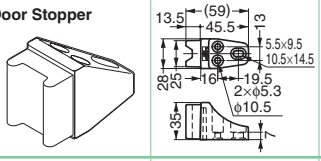
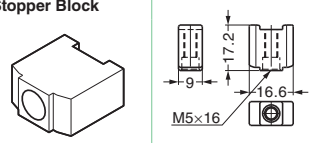
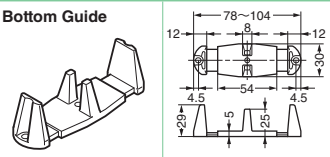
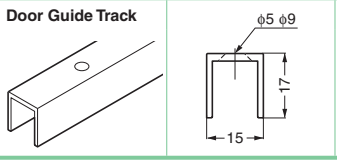
No.	Qty a	Qty b	Qty c	Qty d	Part Name	Dimensions	Description
1	1 pc	–	–	–	Recessed-Roller Two-Way Soft Closer		Item Code : 250-030-386 Item Name : FD30-WRH-DSC ●Material Zinc Alloy / Polyacetal ●Finish Yellow Zinc Chromate / Light Brown
2	–	1 pc	–	–	Recessed-Roller One-Way Soft Closer		Item Code : 250-029-937 Item Name : FD30-WRH-SC ●Material Zinc Alloy / Polyacetal ●Finish Yellow Zinc Chromate / Light Brown
3	–	1 pc	2 pcs	–	Recessed Roller		Item Code : 250-026-120 Item Name : FD30-WRH ●Material Zinc Alloy / Polyacetal ●Finish Yellow Zinc Chromate / Light Brown
4	–	–	–	2 pcs	Side Mount Roller		Item Code : 250-017-142 Item Name : FD30-WRU ●Material Steel / Polyacetal ●Finish Yellow Zinc Chromate / Brown
5	1 pc	1 pc	1 pc	1 pc	Floor Guide		Item Code : 250-017-151 Item Name : FD30-HBG ●Material Steel / Polyamide ●Finish Yellow Zinc Chromate / Light Brown
6	–	1 pc	2 pcs	2 pcs	End Stopper		Item Code : 250-019-969 Item Name : FD30-HTST-DB ●Material Steel / Polyamide ●Finish Yellow Zinc Chromate / Brown
7	1 pc	–	–	–	Trigger Pin		Included in 1 Item Name : FD30-TRG ●Material Steel ●Finish Zinc Chromate
8	1 pc	–	–	–	Recessed Roller For Two-Way Soft Closer		Item Code : 250-020-837 Item Name : FD30-WRH-N ●Material Zinc Alloy / Polyacetal ●Finish Yellow Zinc Chromate / Light Brown

Cover Cap

Necessary Parts

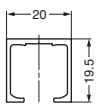
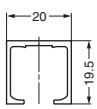
No.	Item Code	Part Name	Dimensions	Description
9	250-018-785 FD30-WRH-CP-WT	Cover Cap		●Material Polypropylene ●Finish White
	250-017-138 FD30-WRH-CP			●Material Polypropylene ●Finish Light Brown
	250-018-786 FD30-WRH-CP-DB			●Material Polypropylene ●Finish Dark Brown

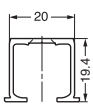
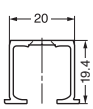
Optional Parts

No.	Item Code	Part Name	Dimensions	Description
10	250-018-497 FD30-HTKY	Door Stopper		●Material Zinc Alloy / Rubber ●Finish Grey
11	250-017-139 FD30-HSB	Stopper Block		●Material Polyacetal ●Finish Dark Brown
12	250-017-156 FD30-HGW	Bottom Guide		●Material Polyamide ●Finish Light Brown
13	250-021-996 FD30-HBRT1000SIL	Door Guide Track		●Material Aluminium ●Finish Anodized Silver

Upper Track

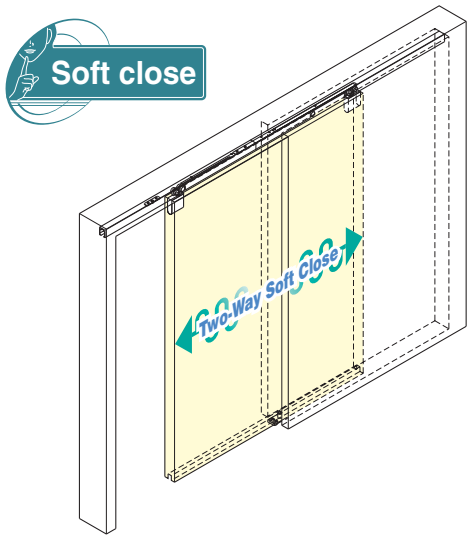
Necessary Parts

Mounting	Length	Item Code	Dimensions	Description
Surface Mount	1820 mm	250-017-131 FD30-TRM1820SIL	For Standard Sliding 	●Material Aluminium ●Finish Anodized Silver
	2730 mm	250-017-966 FD30-TRM2730SIL		●Material Aluminium ●Finish Anodized Silver
	3640 mm	250-017-970 FD30-TRM3640SIL		●Material Aluminium ●Finish Anodized Silver
	1820 mm	250-017-805 FD30-TRM1820SCSIL	For Soft-Closing 	●Material Aluminium ●Finish Anodized Silver
	2730 mm	250-017-978 FD30-TRM2730SCSIL		●Material Aluminium ●Finish Anodized Silver
	3640 mm	250-017-982 FD30-TRM3640SCSIL		●Material Aluminium ●Finish Anodized Silver

Mounting	Length	Item Code	Dimensions	Description
Recessed Mount	1820 mm	250-017-133 FD30-TRH1820SIL	For Standard Sliding 	●Material Aluminium ●Finish Anodized Silver
	2730 mm	250-017-968 FD30-TRH2730SIL		●Material Aluminium ●Finish Anodized Silver
	3640 mm	250-017-972 FD30-TRH3640SIL		●Material Aluminium ●Finish Anodized Silver
	1820 mm	250-017-807 FD30-TRH1820SCSIL	For Soft-Closing 	●Material Aluminium ●Finish Anodized Silver
	2730 mm	250-017-980 FD30-TRH2730SCSIL		●Material Aluminium ●Finish Anodized Silver
	3640 mm	250-017-984 FD30-TRH3640SCSIL		●Material Aluminium ●Finish Anodized Silver

POCKET DOOR SYSTEM

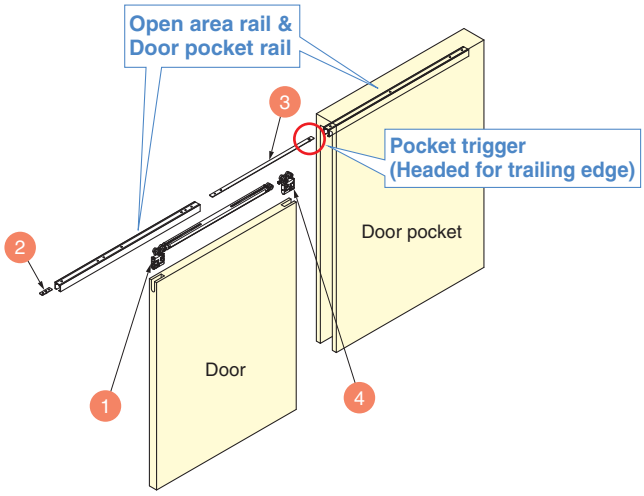
FD30DHCP-PD

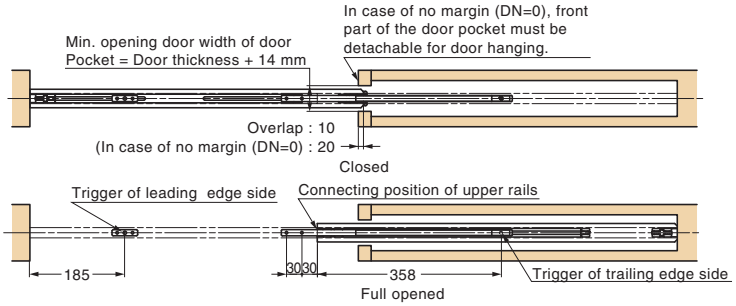


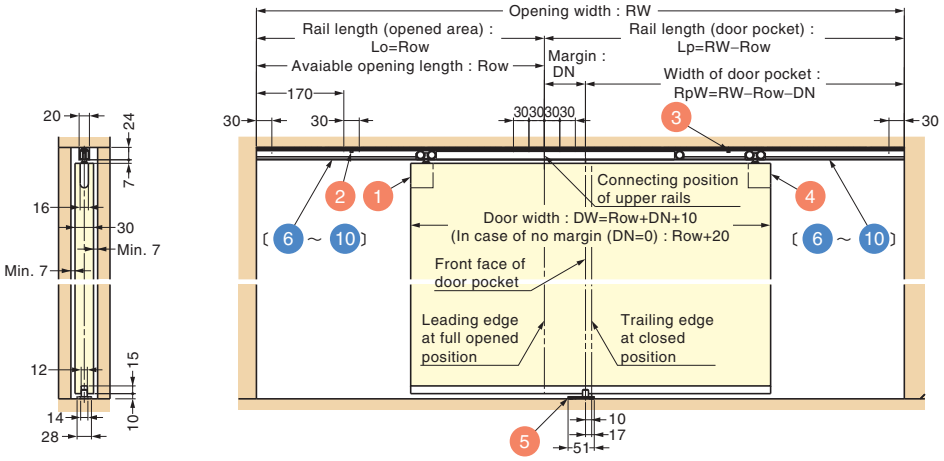
Door Weight	Max. 30 kg
Door Thickness	Min. 30 mm
Door Width	590 - 1000 mm
Door Height	Max. 2400 mm
Specification	☐ Single Door Use

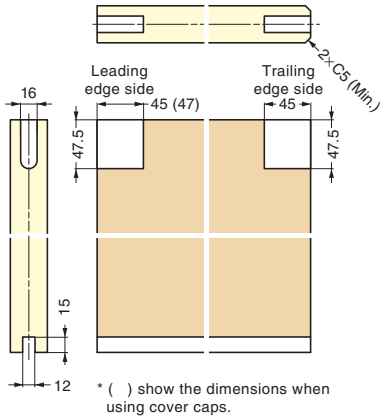
■Features

- For pocket door with two-way soft close.
- Separated upper rail allows easy maintainance after door installation in pocket door application.
- Thin profile allows flexible design on various applications.
- Designed for interior use, not for exterior.







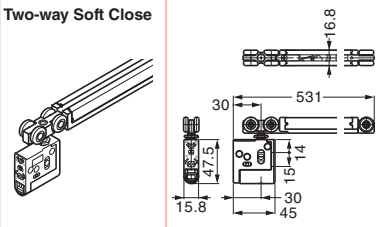
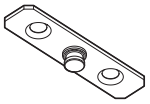
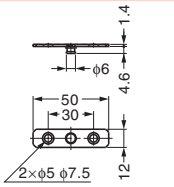
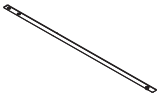
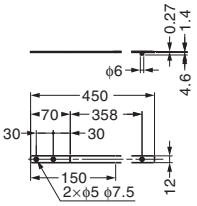
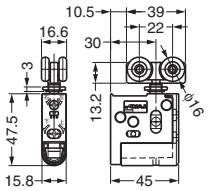
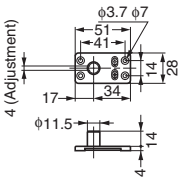


* ( ) show the dimensions when using cover caps.

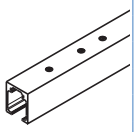
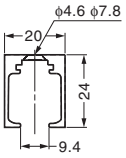
Parts Set (Per Door) — Necessary Parts

Item Code	Item Name	Description
250-029-768	FD30DHCP-PD	Recessed Roller Two-Way Soft Close

Parts Included

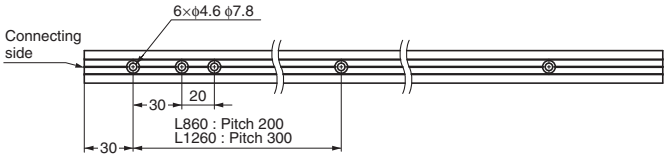
No.	Qty	Part Name	Dimensions	Description
1	1 pc	Recessed Roller Two-way Soft Close		Item Code : 250-026-118 Item Name : FD30-WRH-DSC-A ●Material Zinc Alloy (ZDC) / Polyacetal (POM) ●Finish Yellow Zinc Chromate / Light Brown ●Screw Pan Head Tapping Screw 3.5×30
2	1 pc	Front Trigger	 	Item Code : 250-029-705 Item Name : FD30-TRGPF ●Material Steel (SPCC) ●Finish Chromate
3	1 pc	Pocket Trigger	 	Item Code : 250-029-704 Item Name : FD30-TRGPB ●Material Steel (SPCC) ●Finish Chromate
4	1 pc	Recessed Roller	 	Item Code : 250-020-837 Item Name : FD30-WRH-N ●Material Zinc Alloy (ZDC) / Polyacetal (POM) ●Finish Yellow Zinc Chromate / Light Brown ●Screw Pan Head Tapping Screw 3.5×30
5	1 pc	Floor Guide	 	Item Code : 250-017-151 Item Name : FD30-HBG ●Material Steel / Polyamide (PA) ●Finish Yellow Zinc Chromate / Light Brown ●Screw Countersunk Head Tapping Screw 3.5×30

Upper Track — Necessary Parts

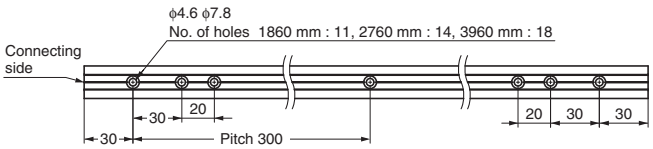
No.	Length	Item Code	Part Name	Dimensions	Description
6	860 mm	250-029-665 FD30-TRMP860-SL			●Material Aluminium Alloy ●Finish Anodized Silver
7	1260 mm	250-029-666 FD30-TRMP1260-SL			
8	1860 mm	250-029-667 FD30-TRMP1860-SL			
9	2760 mm	250-029-668 FD30-TRMP2760-SL			
10	3960 mm	250-029-669 FD30-TRMP3960-SL			

■Hole Dimensions of Upper Track

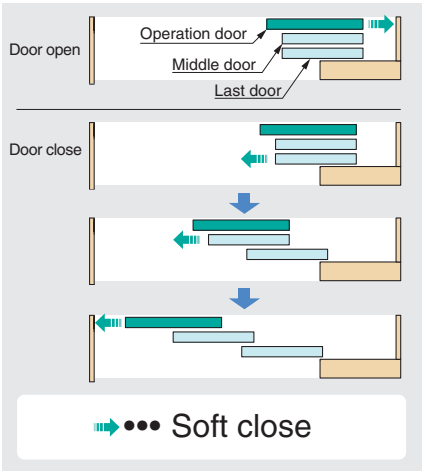
●In case of 860 mm & 1260 mm



●In case of 1860 mm, 2760 mm & 3960 mm



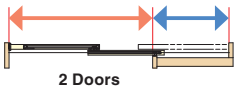
MULTIPLE SYNCHRONIZED SLIDING DOOR SYSTEM FD30-HRP



	2 or 3 Doors Synchronized Sliding Style
Door Weight	Max. 30 kg/Door
Door Thickness	30 - 38 mm
Door Width	590 - 1000 mm
Height Adjustment	-3/+4 mm
Side Adjustment	±2 mm

■Maximum Opening Clearance

Maximum Opening
1840 mm
*Door Width 1000 mm



Maximum Opening
2760 mm
*Door Width 1000 mm

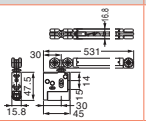
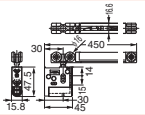
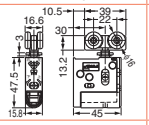
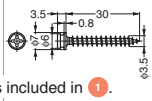
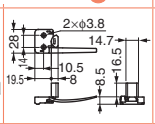
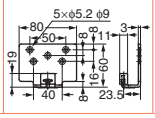


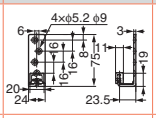
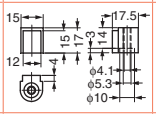
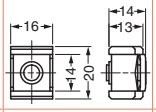
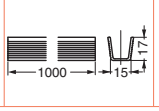
Parts Set — Necessary Parts

Please refer to "Qty [a] - [b] "for parts included in each set.

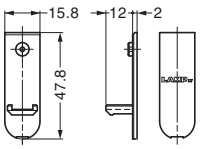
	Item Code	Item Name	Description	
			Roller	Function
[a]	250-022-267	FD30-HRP2	Recessed	2Doors Synchronized
[b]	250-022-268	FD30-HRP3	Recessed	3Doors Synchronized

Parts Included

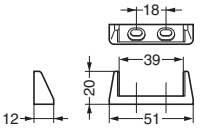
No.	Qty [a]	Qty [b]	Part Name	Dimensions	Description
1	1 pc	1 pc	Recessed-Roller Soft-Closer (Two-Way)		Item Code : 250-030-386 Item Name : FD30-WRH-DSC ●Material Zinc Alloy / Polyacetal ●Finish Yellow Zinc Chromate / Light Brown
2	1 pc	2 pcs	Recessed-Roller Soft-Closer (One-Way)		Item Code : 250-029-937 Item Name : FD30-WRH-SC ●Material Zinc Alloy / Polyacetal ●Finish Yellow Zinc Chromate / Light Brown
3	2 pcs	3 pcs	Recessed-Roller		Item Code : 250-020-837 Item Name : FD30-WRH-N ●Material Zinc Alloy / Polyacetal ●Finish Yellow Zinc Chromate / Light Brown
4	※ 2 pcs	※ 3 pcs	Trigger-Pin ※1 pc is included in 1.		Item Code : 250-019-967 Item Name : FD30-TRG ●Material Steel ●Finish Yellow Zinc Chromate
5	1 set	2 sets	End Stopper		Item Code : 250-022-261 Item Name : FD30-HRGU ●Material SUS 304 / POM ●Finish Grey / Plain
6	1 pc	2 pcs	Door Guide (Door Mount)		Item Code : 250-022-262 Item Name : FD30-HRDG ●Material SUS 304 / POM ●Finish Grey / Plain

No.	Qty [a]	Qty [b]	Part Name	Dimensions	Description
7	1 pc	1 pc	Door Guide (Wall Mount)		Item Code : 250-022-263 Item Name : FD30-HBGF ●Material SUS 304 / POM ●Finish Grey / Plain
8	1 pc	1 pc	Block for Bottom Guide		Item Code : 250-022-264 Item Name : FD30-HRDB ●Material EPDM ●Finish Black
9	1 pc	2 pcs	Bumper Block		Item Code : 250-022-265 Item Name : FD30-HBB ●Material Steel / EPDM ●Finish Chromate / Black
10	2 pcs	3 pcs	Guide Track		Item Code : 250-022-266 Item Name : FD30-HBDR1000 ●Material ABS ●Finish Black

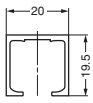
Cover Cap — Necessary Parts

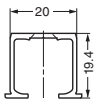
No.	Item Code	Part Name	Dimensions	Description
11	250-018-785 FD30-WRH-CP-WT 250-017-138 FD30-WRH-CP 250-018-786 FD30-WRH-CP-DB	Cover Cap		●Material Polypropylene ●Finish WT=White CP=Light Brown DB=Dark Brown

Optional Parts

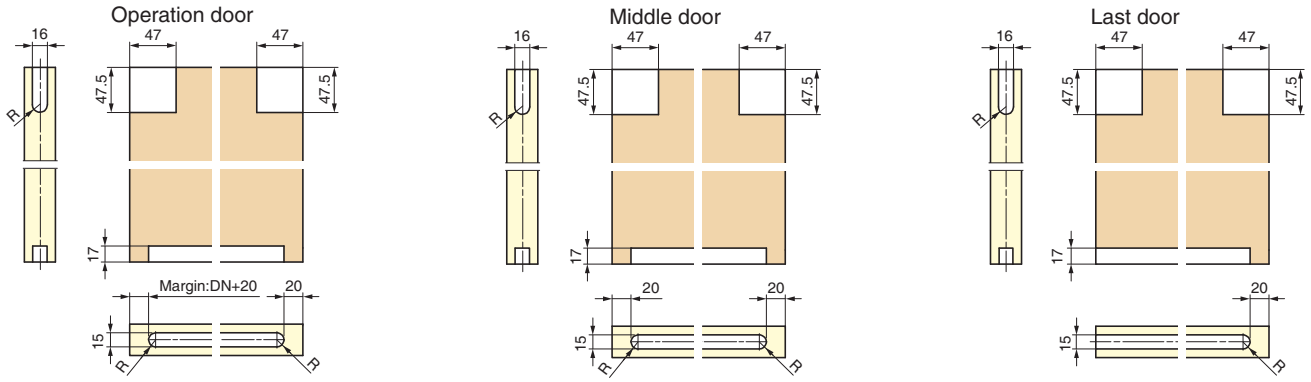
No.	Item Code	Part Name	Dimensions	Description
12	250-017-157 FD30-HTF	Bottom Guide		●Material Polyamide ●Finish Light Brown

Upper Track — Necessary Parts

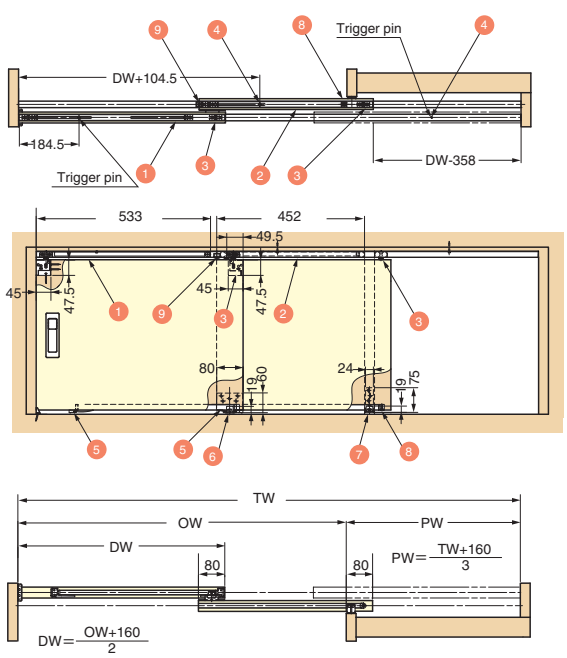
Mounting	Length	Item Code	Dimensions	Description
Surface Mount	1820 mm	250-017-805 FD30-TRM1820SCSIL		●Material Aluminium ●Finish Anodized Silver
	2730 mm	250-017-978 FD30-TRM2730SCSIL		●Material Aluminium ●Finish Anodized Silver
	3640 mm	250-017-982 FD30-TRM3640SCSIL		●Material Aluminium ●Finish Anodized Silver

Mounting	Length	Item Code	Dimensions	Description
Recessed Mount	1820 mm	250-017-807 FD30-TRH1820SCSIL		●Material Aluminium ●Finish Anodized Silver
	2730 mm	250-017-980 FD30-TRH2730SCSIL		●Material Aluminium ●Finish Anodized Silver
	3640 mm	250-017-984 FD30-TRH3640SCSIL		●Material Aluminium ●Finish Anodized Silver

■Door Preparation

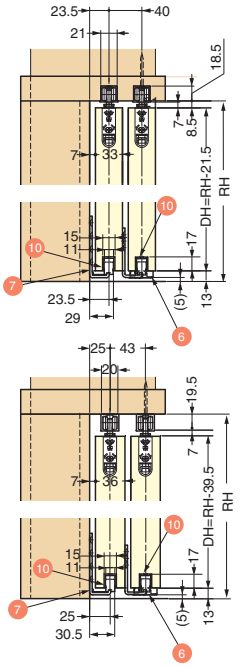


a FD30 / Synchronized Sliding / 2 Doors

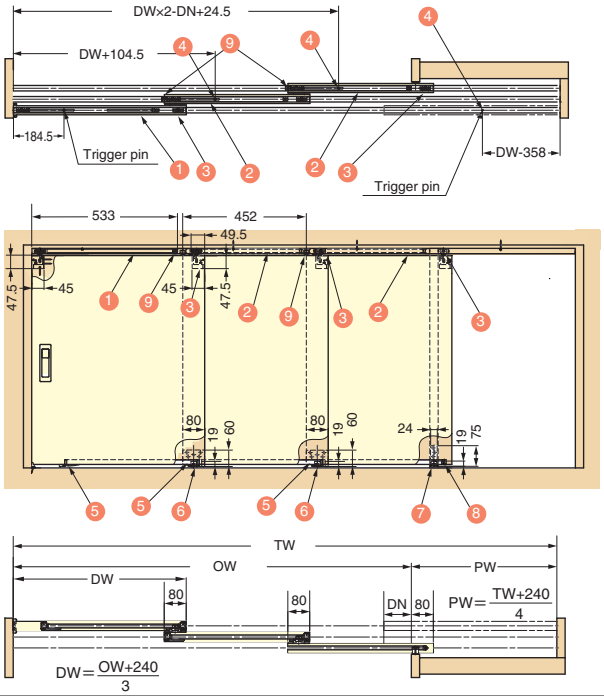


■In case of 33 mm thick door (recessed mount track)

■In case of 36 mm thick door (surface mount track)

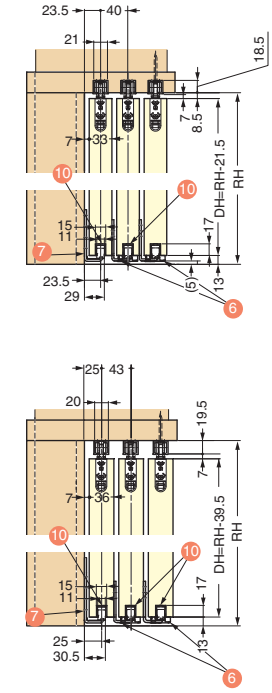


b FD30 / Synchronized Sliding / 3 Doors



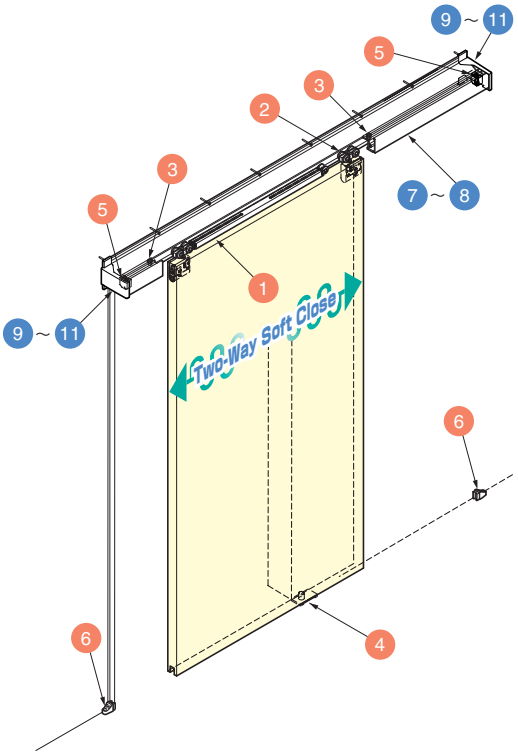
■In case of 33 mm thick door (recessed mount track)

■In case of 36 mm thick door (surface mount track)



OUTSET SLIDING DOOR SYSTEM

STEEL **FD30-H**

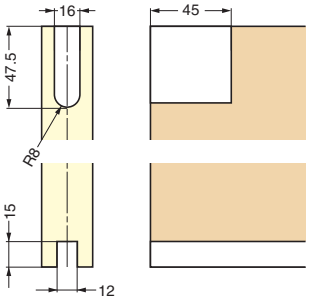


Door Weight	Max. 30 kg/Door
Door Thickness	30 - 36 mm
Door Width	590 - 1000 mm
Door Height	Max. 2400 mm
Height Adjustment	-3/+4 mm
Side Adjustment	±2 mm

■Features

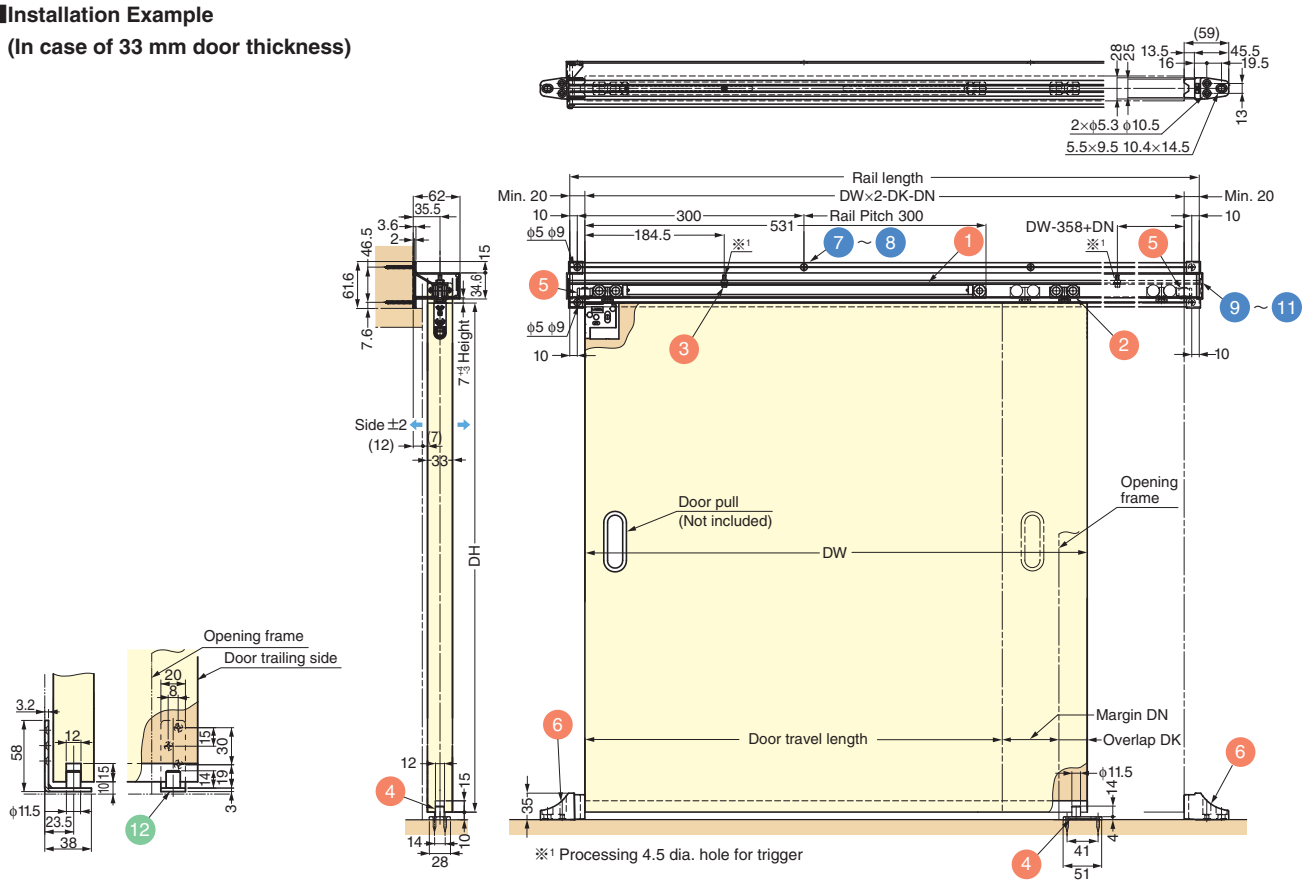
Can be installed to existing opening space for renovation use.

■Door Preperation



■Installation Example

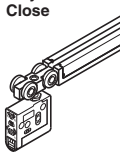
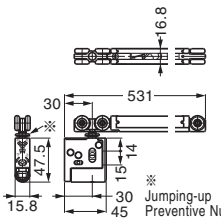
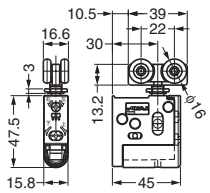
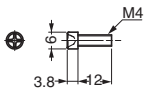
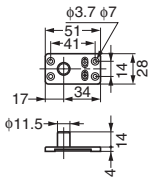
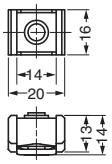
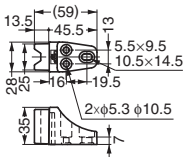
(In case of 33 mm door thickness)



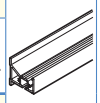
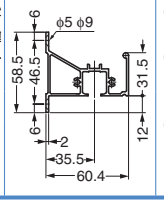
Parts Set (Per Door) — Necessary Parts

Item Code	Item Name	Description
250-022-275	FD30DHCP-AK	Two-Way Soft Close / Outset Use

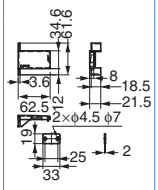
Parts Included

No.	Qty	Part Name	Dimensions	Description
1	1 pc	Recessed Roller Two-Way Soft Close 		**Item Code : 250-026-118** **Item Name : FD30-WRH-DSC-A** ●Material Zinc Alloy (ZDC) / Polyacetal (POM) ●Finish Yellow Zinc Chromate / Light Brown ●Screw Pan Head Tapping Screw 3.5×30
2	1 pc	Recessec Roller 		**Item Code : 250-020-837** **Item Name : FD30-WRH-N** ●Material Zinc Alloy (ZDC) / Polyacetal (POM) ●Finish Yellow Zinc Chromate / Light Brown ●Screw Pan Head Tapping Screw 3.5×30
3	1 set	Trigger for Outset Use 		**Item Code : 250-022-274** **Item Name : FD30-HATG** ●Material Steel ●Finish Chromate 2 pcs, M4 Nuts
4	1 pc	Floor Guide 		**Item Code : 250-017-151** **Item Name : FD30-HBG** ●Material Steel / Polyamide (PA) ●Finish Yellow Zinc Chromate / Light Brown ●Screw Countersunk Head Tapping Screw 3.5×30 **White, Dark Brown are also available.**
5	2 pcs	Bumper Block 		**Item Code : 250-022-265** **Item Name : FD30-HBB** ●Material Steel / Ethylene Propylene Rubber (EPDM) ●Finish Chromate / Black
6	2 pcs	Door Stopper (Floor) 		**Item Code : 250-018-497** **Item Name : FD30-HTKY** ●Material Zinc Alloy (ZDC) / Rubber ●Finish Matte Silver / Black 【Application】 For floor mount application. ●Screw Binding Head Tapping Screw 4×30

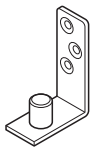
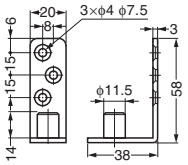
Upper Track — Necessary Parts

No.	Length	Item Code	Part Name	Dimensions	Description
7	Silver 2100 mm	250-022-269 Item Name FD30-TRA2100SL	Hole Pitch 300 mm Pitch End 10 mm 		●Material Aluminium Alloy ●Finish Anodized Silver +Clear ●Screw Countersunk Head Tapping Screw 4×40
8	Silver 2730 mm	250-022-271 Item Name FD30-TRA2730SL			

Side Cover — Necessary Parts

No.	Colour	Item Code	Part Name	Dimensions	Description
9	Grey (Set for L&R)	250-022-273 Item Name FD30-HASC-GR	(With Stopper Plate) 		●Material Steel / ABS ●Finish/Colour Chromate / Grey ●Screw Cross-recessed Head Machine Screw 4×25 (ϕ6)
10	Brown (Set for L&R)	250-022-449 Item Name FD30-HASC-BR			●Material Steel / ABS ●Finish/Colour Chromate / Brown ●Screw Cross-recessed Head Machine Screw 4×25 (ϕ6)
11	White (Set for L&R)	250-025-640 Item Name FD30-HASC-WT			●Material Steel / ABS ●Finish/Colour Chromate / White ●Screw Cross-recessed Head Machine Screw 4×25 (ϕ6)

Optional Parts

No.	Item Code	Part Name	Dimensions	Description
12	250-019-968 Item Name FD30-HBGK	Guide Roller for Wall 		●Material Steel / Polyacetal (POM) ●Finish Yellow Zinc Chromate / Light Brown 【Application】 For wall mount application. ●Screw Countersunk Head Tapping Screw 3.5×30

SLIDING DOOR SYSTEM

FD50-H



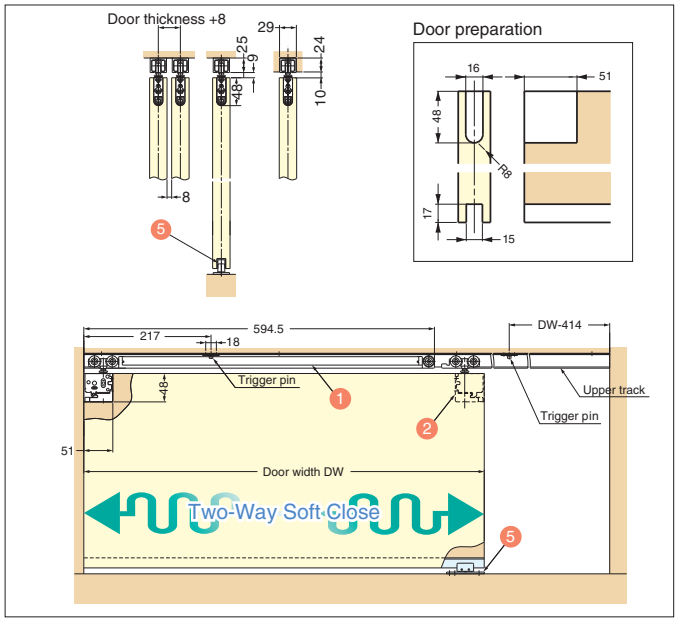
	a Two-Way Soft Close	b Standard Sliding	c Two-Way Soft Close	d Standard Sliding
Roller	Recessed Mount	Recessed Mount	Surface Mount	Surface Mount
Door Weight	Max. 50 kg			
Door Thickness (Min.)	24 mm	24 mm	30 mm	30 mm
Door Width	680-1500 mm	Max. 1500 mm	774-1500 mm	Max. 1500 mm
Door Height	Max. 2400 mm			
Height Adjustment	-3/+4 mm		±4 mm	
Side Adjustment	±2 mm		-	

■Features

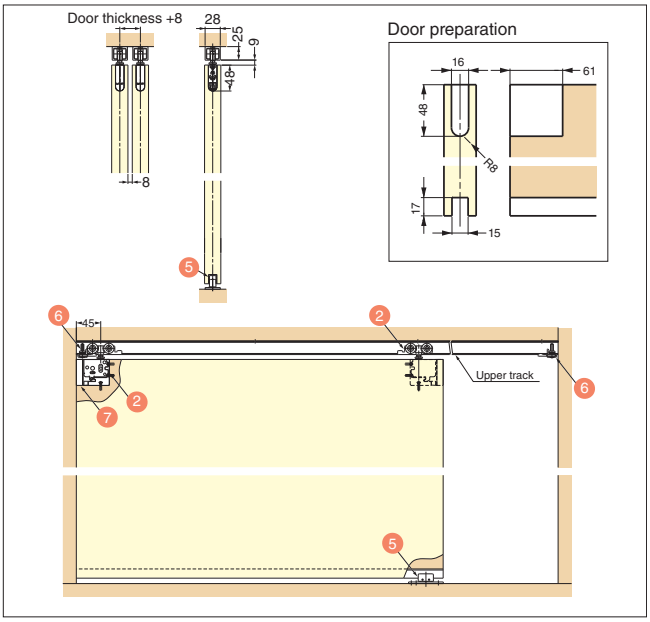
- Thin profile allows flexible design for various applications.
- Damper equipped for soft & silent closing at the end (a c only).
- Various parts available for many applications.

*Designed for interior use, not for exterior.

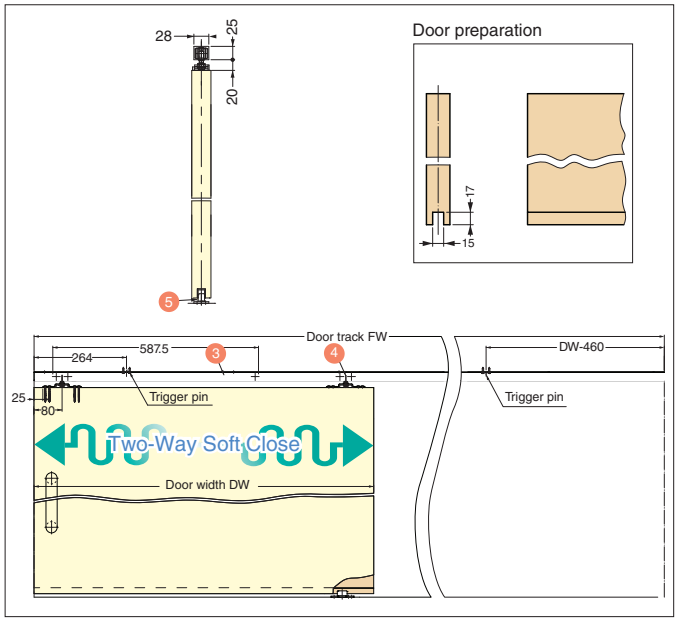
a FD50 / Recessed Mount Roller / Two-Way Soft Close



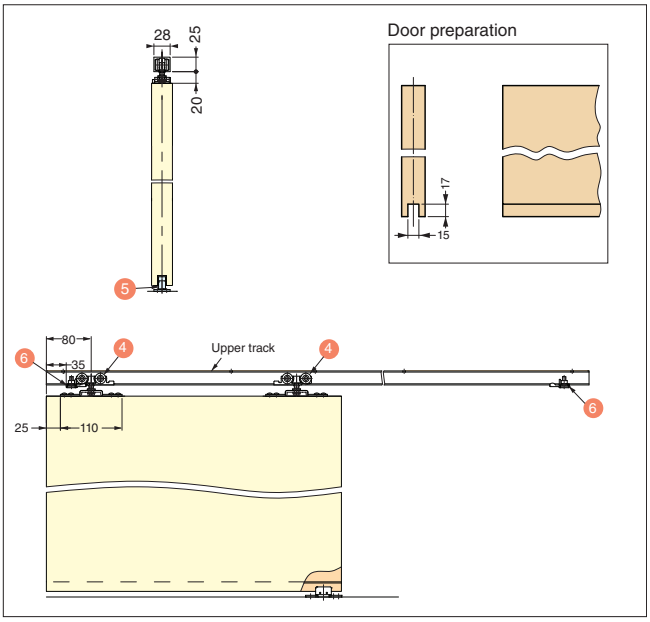
b FD50 / Recessed Mount Roller / Standard Sliding



c FD50 / Surface Mount Roller / Two-Way Soft Close



d FD50 / Surface Mount Roller / Standard Sliding



Parts Set (Per Door)

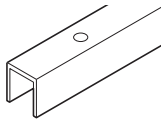
Necessary Parts

Please refer to "Qty [a] - [d] "for parts included in each set.

	Item Code	Item Name	Description
a	250-020-791	FD50-DHCP	Recessed Roller Two-Way Soft Close
b	250-020-792	FD50-HHP-LBR	Recessed Roller Standard Sliding
c	250-023-991	FD50-DHCMP	Surface Mount Two-Way Soft Close
d	250-023-990	FD50-HMP	Surface Mount Standard Sliding

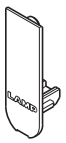
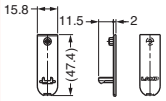
Parts Included

No.	Qty a	Qty b	Qty c	Qty d	Part Name	Description
1	1 pc	–	–	–	Recessed Roller Soft Closer Two-Way Soft Close 	Item Code : 250-032-340 Item Name : FD50-WRH-DSC ●Material Steel / Polyacetal ●Finish Chromate / Grey
	2 pcs	–	–	–	Trigger Pin 	●Material Steel ●Finish Chromate
2	1 pc	2 pcs	–	–	Recessed Roller 	Item Code : 250-020-765 Item Name : FD50-WRH ●Material Zinc Alloy / Polyacetal ●Finish Chromate / Grey
3	–	–	1 pc	–	Surface Mount Roller Soft Closer Two-Way Soft Close 	Item Code : 250-022-902 Item Name : FD50-WRM-DSC ●Material Steel / Polyacetal ●Finish Chromate / White
	–	–	2 pcs	–	Trigger Pin 	●Material Steel ●Finish Chromate
4	–	–	1 pc	2 pcs	Surface Mount Roller 	Item Code : 250-022-901 Item Name : FD50-WRM ●Material Zinc Alloy / Polyacetal ●Finish Nickel / White
5	1 pc	1 pc	1 pc	1 pc	Floor Guide 	Item Code : 250-020-773 Item Name : FD50-BG18 ●Material SUS 304 / Polyacetal ●Finish Plain / White
6	–	2 pcs	–	2 pcs	End Stopper 	Item Code : 250-020-772 Item Name : FD50-HTST ●Material Steel ●Finish Chromate

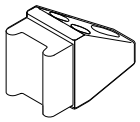
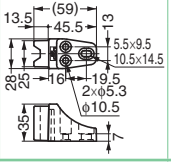
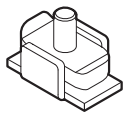
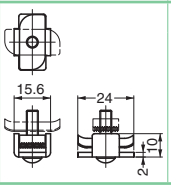
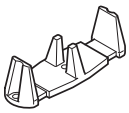
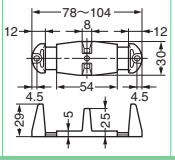
No.	Qty a	Qty b	Qty c	Qty d	Part Name	Description
7	–	2 pcs	–	–	Cover Cap for Recessed Roller 	Item Code : 250-020-778 Item Name : FD50-WRH-SCP-LBR ●Material Polypropylene ●Finish Light Brown
8	1 pc	1 pc	1 pc	1 pc	Door Guide Track 	Item Code : 250-019-971 Item Name : FD30-HBRT1500SIL ●Material Aluminium ●Finish Anodized Silver

Cover Cap

Necessary Parts for [a]

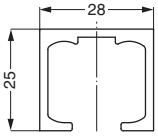
No.	Item Code	Part Name	Dimensions	Description
9	250-020-777 FD50-WRH-CP-WT 250-020-775 FD50-WRH-CP-LBR 250-020-776 FD50-WRH-CR-DBR	Cover Cap 		●Material Polypropylene ●Finish WT=White LBR=Light Brown DBR=Dark Brown

Optional Parts

No.	Item Code	Part Name	Dimensions	Description
10	250-018-497 FD30-HTKY	Door Stopper 		●Material Zinc Alloy / Rubber ●Finish Grey
11	250-020-817 FD50-HSB	Stopper Block 		●Material Steel ●Finish Chromate
12	250-017-156 FD30-HGW	Bottom Guide 		●Material Polyamide ●Finish Light Brown

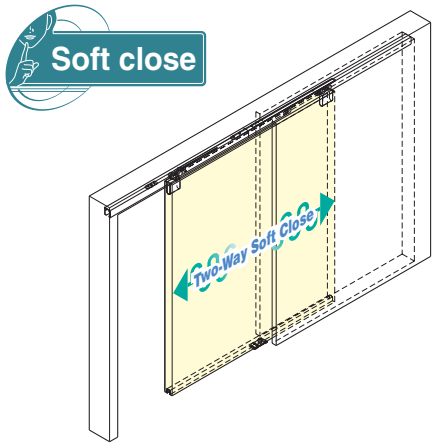
Upper Track

Necessary Parts

Mounting	Length	Item Code	Dimensions	Description
Surface Mount	1820 mm	250-020-766 FD50-TRM1820SIL		●Material Aluminium ●Finish Anodized Silver
	2730 mm	250-020-768 FD50-TRM2730SIL		●Material Aluminium ●Finish Anodized Silver
	3640 mm	250-020-770 FD50-TRM3640SIL		●Material Aluminium ●Finish Anodized Silver

POCKET DOOR SYSTEM

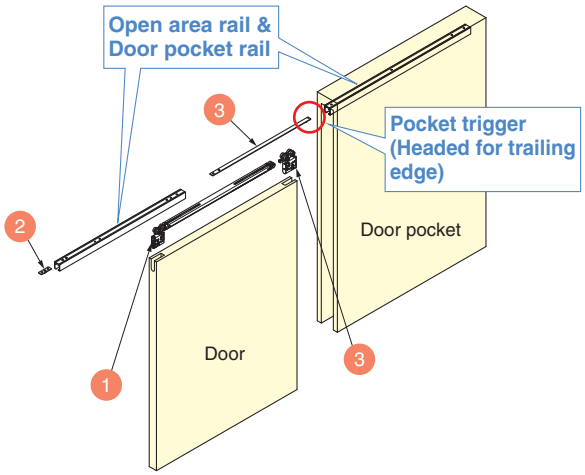
FD50-H



	Recessed Mount Type, with Two-Way Soft Close (below)	Surface Mount Type, with Two-Way Soft Close (P.678)
Door Weight	Max. 50 kg/Door	
Door Thickness	Min. 24 mm	Min. 30 mm
Door Width	680 - 1500 mm	774 - 1500 mm
Door Height	Max. 2400 mm	
Specification	For Single Door Use	
	Recessed Mount Type 	Surface Mount Type 

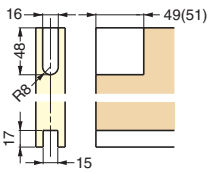
RECESSED MOUNT TYPE FOR POCKET DOOR

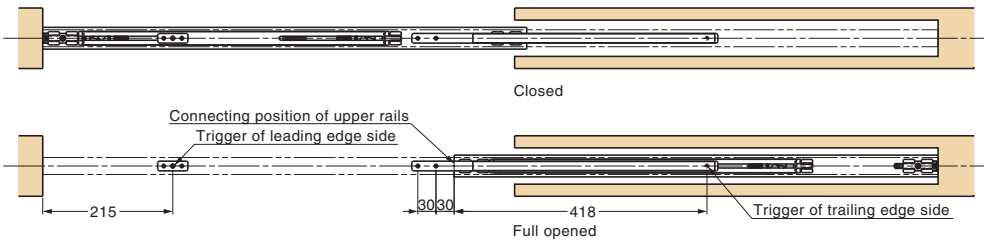
FD50DHCP-PD

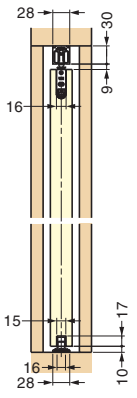


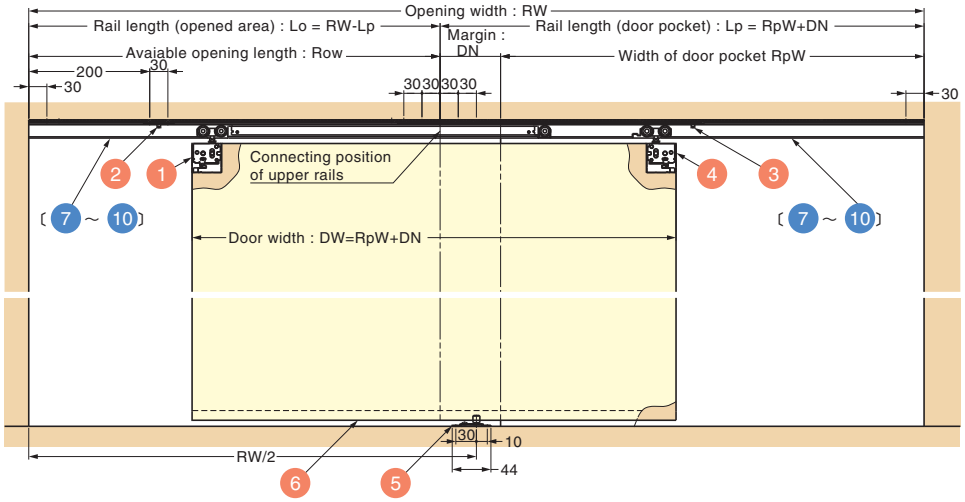
Features

- For pocket door with two-way soft close.
- Separated upper rail allows easy maintainance after door installation in pocket door application.
- Thin profile allows flexible design on various applications.
- Designed for interior use, not for exterior.





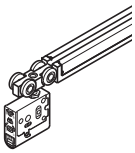
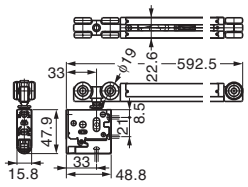
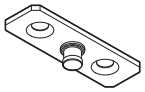
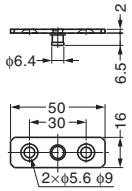
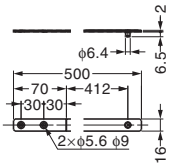
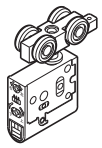
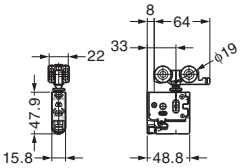
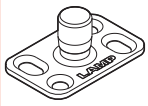
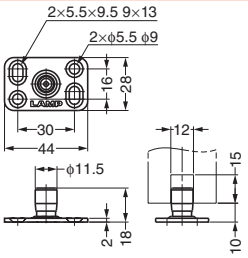
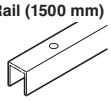
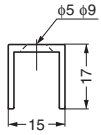




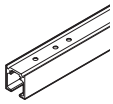
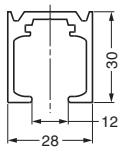
Parts Set (Per Door) — Necessary Parts

Item Code	Item Name	Description
250-029-769	FD50DHCP-PD	Recessed Roller Two-Way Soft Close

Parts Included

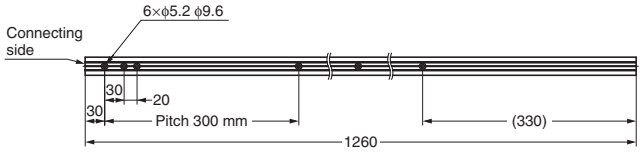
No.	Qty	Part Name	Dimensions	Description
1	1 pc	Recessed Roller Two-Way Soft Close 		**Item Code : 250-032-340** **Item Name : FD50-WRH-DSC** ●Material Steel / Polyacetal (POM) ●Finish / Colour Chromate / Grey ●Screw Pan Head Tapping Screw 3.8×40 【Remarks】Do not use the included trigger.
2	1 pc	Front Trigger 		**Item Code : 250-029-707** **Item Name : FD50-TRGPF** ●Material Steel ●Finish Chromate ●Screw Countersunk Head Tapping Screw 4×40
3	1 pc	Pocket Trigger 		**Item Code : 250-029-706** **Item Name : FD50-TRGPB-HB** ●Material Steel ●Finish Chromate ●Screw Countersunk Head Tapping Screw 4×40
4	1 pc	Recessed Roller 		**Item Code : 250-020-765** **Item Name : FD50-WRH** ●Material Zinc Alloy (ZDC) / Polyacetal (POM) ●Finish / Colour Chromate / Grey ●Screw Pan Head Tapping Screw 3.8×40
5	1 pc	Floor Guide 		**Item Code : 250-029-718** **Item Name : FD50-BGR18** ●Material Stainless Steel (SUS430) / Polyacetal (POM) ●Finish / Colour Polished / Natural ●Screw Countersunk Head Tapping Screw 4×20
6	1 pc	Bottom Guide Rail (1500 mm) 		**Item Code : 250-019-971** **Item Name : FD30-HBRT1500SIL** ●Material Aluminium Alloy ●Finish Silver

Upper Track — Necessary Parts

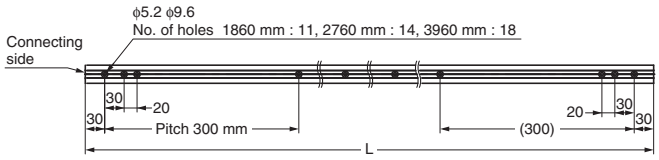
No.	Length	Item Code	Part Name	Dimensions	Description
7	1260 mm	250-029-680 FD50-TRP1260-SL	Upper Track 		●Material Aluminium Alloy ●Finish Anodized Silver ●Screw Countersunk Head Tapping Screw 4×20
8	1860 mm	250-029-681 FD50-TRP1860-SL			
9	2760 mm	250-029-682 FD50-TRP2760-SL			
10	3960 mm	250-029-683 FD50-TRP3960-SL			

■Hole Dimensions of Upper Track

●In case of 1260 mm



●In case of 1860 mm, 2760 mm & 3960 mm

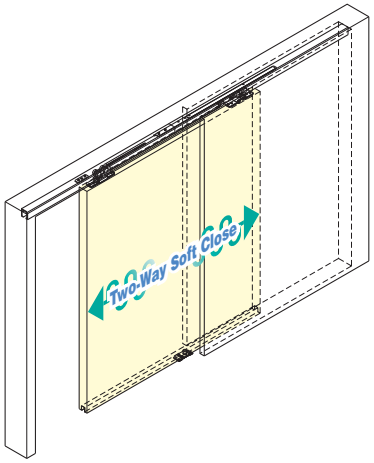


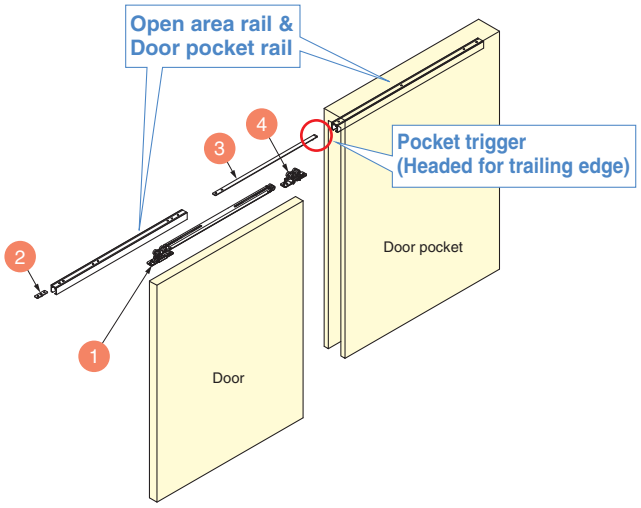
SURFACE MOUNT TYPE FOR POCKET DOOR

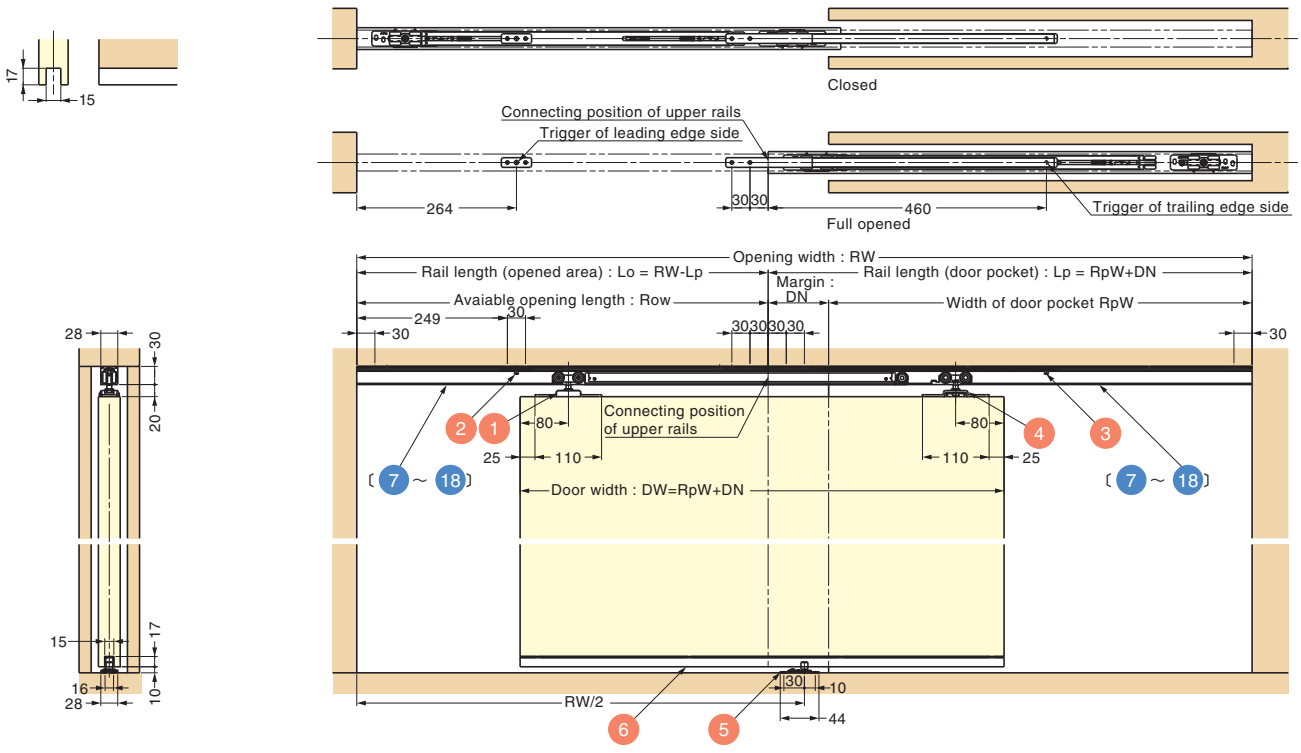
FD50DHCMP-PD

■Features

- For pocket door with two-way soft close.
- Separated upper rail allows easy maintainance after door installation in pocket door application.
- Thin profile allows flexible design on various applications.
- Designed for interior use, not for exterior.



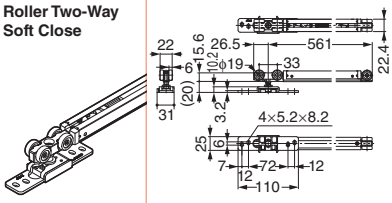
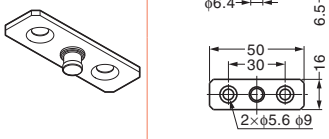
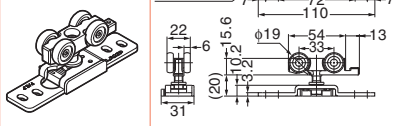
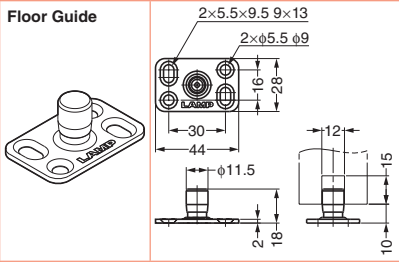
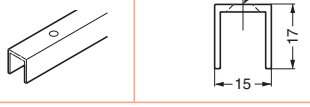




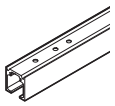
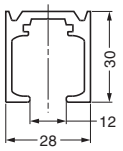
Parts Set (Per Door) — Necessary Parts

Item Code	Item Name	Description
250-029-770	FD50DHCMP-PD	Surface Mount Roller Two-Way Soft Close

Parts Included

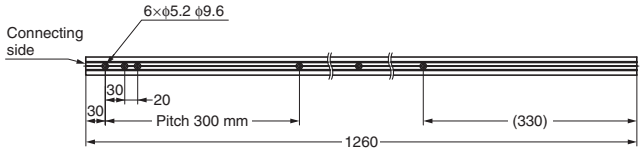
No.	Qty	Part Name	Dimensions	Description
1	1 pc	Surface Mount Roller Two-Way Soft Close		Item Code : 250-022-902 Item Name : FD50-WRM-DSC ●Material Steel / Polyacetal (POM) ●Finish / Colour Chromate / Natural ●Screw Pan Head Tapping Screw 4×45 4 pcs 【Remarks】Do not use the included trigger.
2	1 pc	Front Trigger		Item Code : 250-029-707 Item Name : FD50-TRGPF ●Material Steel ●Finish Chromate ●Screw Countersunk Head Tapping Screw 4×40
3	1 pc	Pocket Trigger		Item Code : 250-029-738 Item Name : FD50-TRGPB-MB ●Material Steel ●Finish Chromate ●Screw Countersunk Head Tapping Screw 4×40
4	1 pc	Surface Mount Roller		Item Code : 250-022-901 Item Name : FD50-WRM ●Material Zinc Alloy / Polyacetal (POM) ●Finish Nickel / Natural ●Screw Pan Head Tapping Screw 4×45 4 pcs
5	1 pc	Floor Guide		Item Code : 250-029-718 Item Name : FD50-BGR18 ●Material Stainless Steel (SUS430) / Polyacetal (POM) ●Finish / Colour Polished / Natural ●Screw Countersunk Head Tapping Screw 4×20
6	1 pc	Bottom Guide Rail (1500 mm)		Item Code : 250-019-971 Item Name : FD30-HBRT1500SIL ●Material Aluminium Alloy ●Finish Silver

Upper Track — Necessary Parts

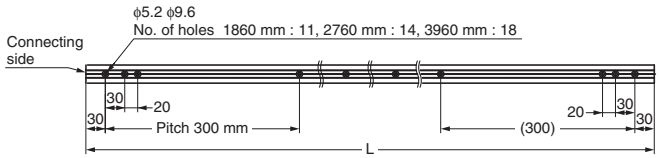
No.	Length	Item Code	Part Name	Dimensions	Description
7	1260 mm	250-029-680 FD50-TRP1260-SL	Upper Track 		●Material Aluminium Alloy ●Finish Anodized Silver ●Screw Countersunk Head Tapping Screw 4×20
8	1860 mm	250-029-681 FD50-TRP1860-SL			
9	2760 mm	250-029-682 FD50-TRP2760-SL			
10	3960 mm	250-029-683 FD50-TRP3960-SL			

■Hole Dimensions of Upper Track

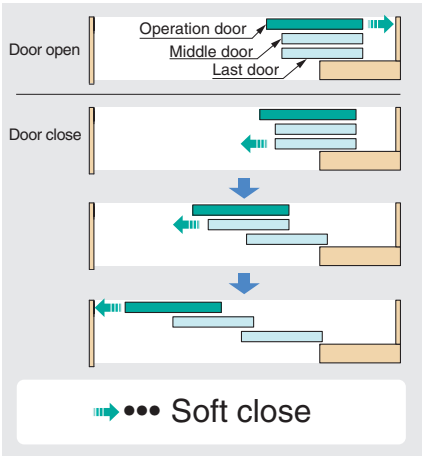
●In case of 1260 mm



●In case of 1860 mm, 2760 mm & 3960 mm



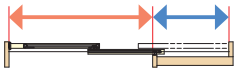
MULTIPLE SYNCRONIZED SLIDING DOOR SYSTEM FD50-HRP



	2 or 3 Doors Synchronized Sliding Style
Door Weight	Max. 50 kg/Door
Door Thickness	30 - 38 mm
Door Width	680 - 1200 mm
Height Adjustment	-3/+4 mm
Side Adjustment	±2 mm

■Maximum Opening Clearance

Maximum Opening
2240 mm
*Door Width 1200 mm



Maximum Opening
3360 mm
*Door Width 1200 mm

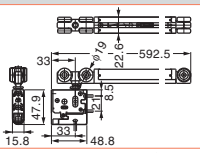
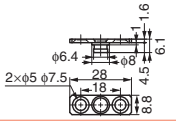
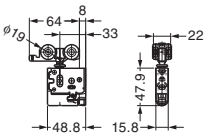
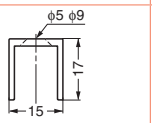
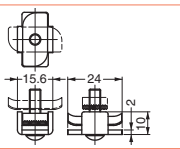
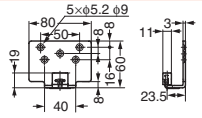


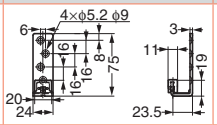
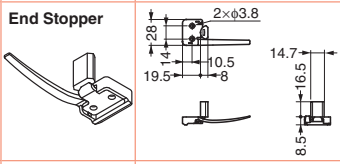
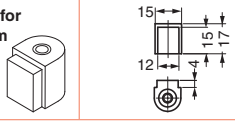
Parts Set — Necessary Parts

Please refer to "Qty [a] - [b] "for parts included in each set.

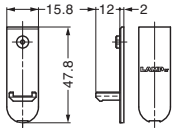
	Item Code	Item Name	Description
a	250-023-211	FD50-HRP2	2 Doors Synchronized
b	250-023-212	FD50-HRP3	3 Doors Synchronized

Parts Included

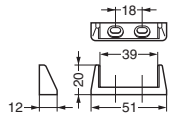
No.	Qty a	Qty b	Part Name	Dimensions	Description
1	2 pcs	3 pcs	Recessed Roller Soft-Close (Two-Way)		Item Code : 250-032-340 Item Name : FD50-WRH-DSC ●Material Steel / Polyacetal ●Finish Chromate / Grey
	4 pcs	6 pcs	Trigger Pin		
2	2 pcs	3 pcs	Recessed Roller		Item Code : 250-020-765 Item Name : FD50-WRH ●Material Zinc Alloy / Polyacetal ●Finish Chromate / Grey
3	2 pcs	3 pcs	Door Guide Track		Item Code : 250-019-971 Item Name : FD30-HBRT1500SIL ●Material Aluminium ●Finish Anodized Silver
4	1 pc	2 pcs	Stopper Block		Item Code : 250-020-817 Item Name : FD50-HSB ●Material Steel ●Finish Chromate
5	1 pc	2 pcs	Door Guide (Door Mount)		Item Code : 250-022-262 Item Name : FD30-HRDG ●Material SUS 304 / POM ●Finish Grey, Plain

No.	Qty a	Qty b	Part Name	Dimensions	Description
6	1 pc	1 pc	Door Guide (Wall Mount)		Item Code : 250-022-263 Item Name : FD30-HBGF ●Material SUS 304 / POM ●Finish Grey, Plain
7	1 set	2 sets	End Stopper		Item Code : 250-022-261 Item Name : FD30-HRGU ●Material SUS 304 / POM ●Finish Grey, Plain
8	1 pc	1 pc	Block for Bottom Guide		Item Code : 250-022-264 Item Name : FD30-HRDB ●Material EPDM ●Finish Black

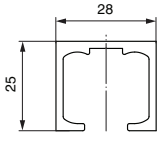
Cover Cap — Necessary Parts

No.	Item Code	Part Name	Dimensions	Description
9	250-020-777 FD50-WRH-CP-WT 250-020-775 FD50-WRH-CP-LBR 250-020-776 FD50-WRH-CP-DBR	Cover Cap		●Material Polypropylene ●Finish WT=White CP=Light Brown DB=Dark Brown

Optional Parts

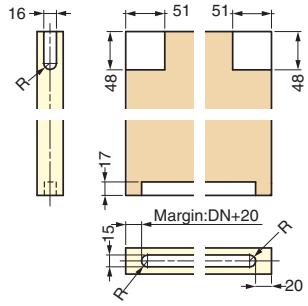
No.	Item Code	Part Name	Dimensions	Description
10	250-017-157 FD30-HTF	Bottom Guide		●Material Polyamide ●Finish Light Brown

Upper Track — Necessary Parts

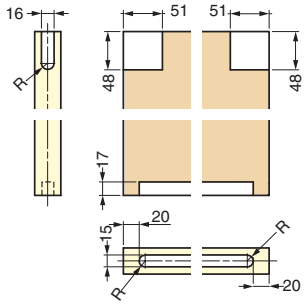
Mounting	Length	Item Code	Dimensions	Description
Surface Mount	1820 mm	250-020-766 FD50-TRM1820SIL		●Material Aluminium ●Finish Anodized Silver
	2730 mm	250-020-768 FD50-TRM2730SIL		●Material Aluminium ●Finish Anodized Silver
	3640 mm	250-020-770 FD50-TRM3640SIL		●Material Aluminium ●Finish Anodized Silver

■Door Preparation

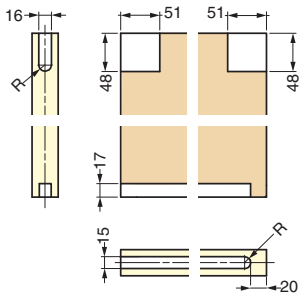
Operation door



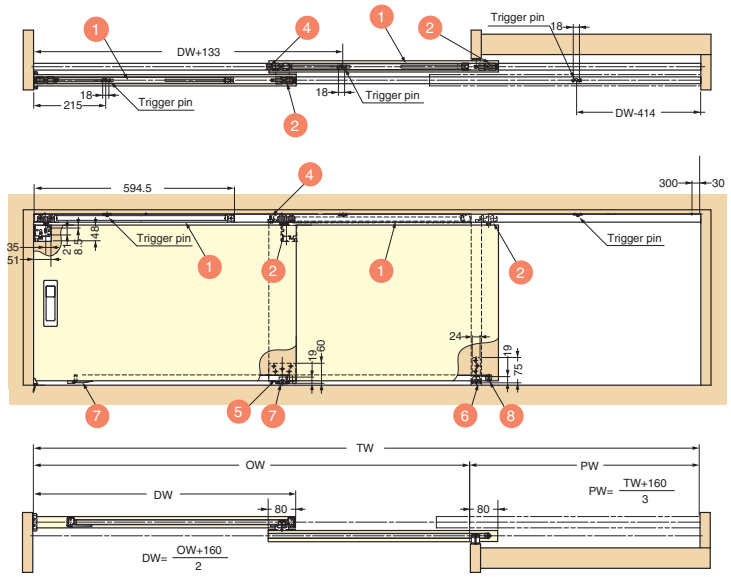
Middle door



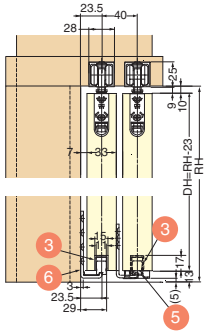
Last door



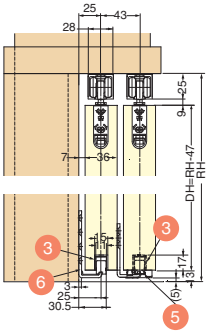
a FD50 / Synchronized Sliding / 2 Doors



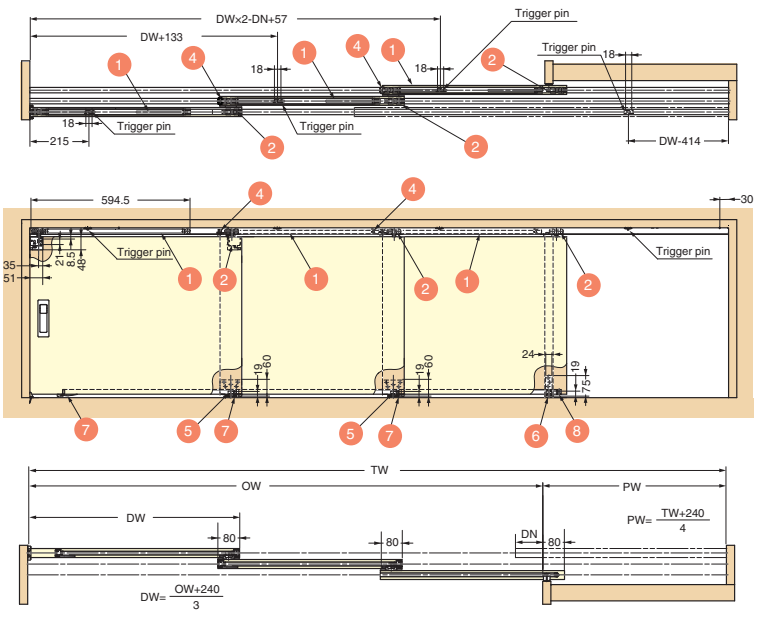
■In case of 33 mm thick door (recessed mount track)



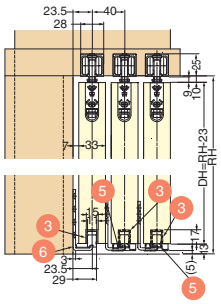
■In case of 36 mm thick door (surface mount track)



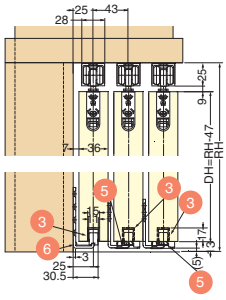
b FD50 / Synchronized Sliding / 3 Doors



■In case of 33 mm thick door (recessed mount track)



■In case of 36 mm thick door (surface mount track)



SLIDING DOOR SYSTEM

FD80-H

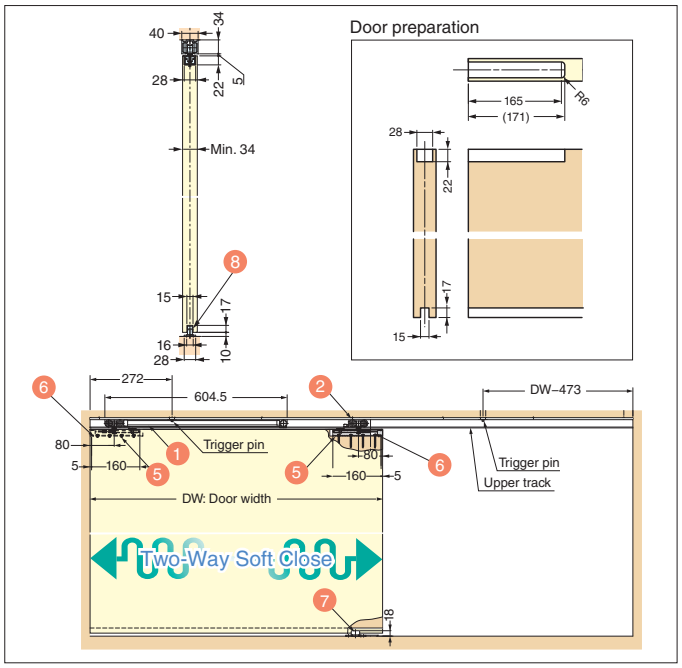


	a Two-Way Soft Close	b Standard Sliding	c Two-Way Soft Close	d Standard Sliding
Roller	Recessed Mount	Recessed Mount	Surface Mount	Surface Mount
Door Weight	Max. 80 kg/Door			
Door Thickness (Min.)	34 mm	34 mm	30 mm	30 mm
Door Width	784-1500 mm	Max. 1500 mm	784-1500 mm	Max. 1500 mm
Door Height	Max. 2500 mm			
Height Adjustment	-1/+4 mm		±4 mm	

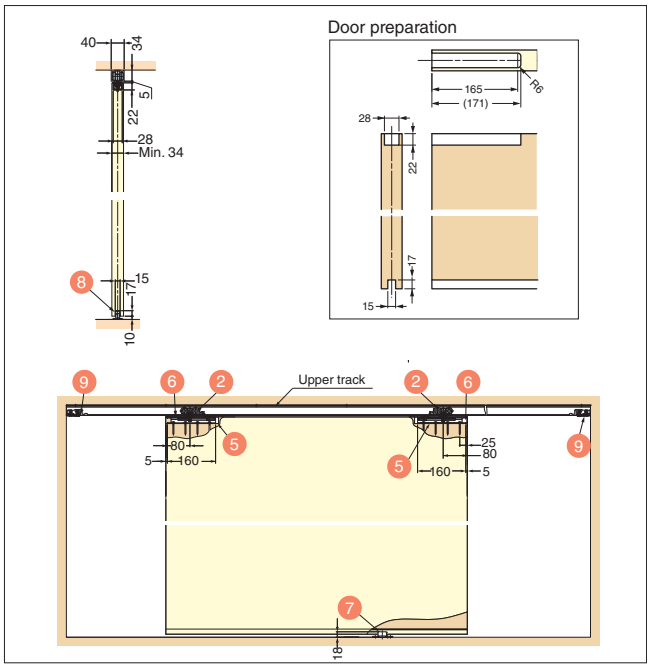
Features

- Heavy duty version.
- Damper equipped for soft & silent closing at the end (a c only).
- Surface mount system for easy installation - No door boring is required.
- Easy door installation - Simply hang the door onto the rollers.
- Easy height adjustment.

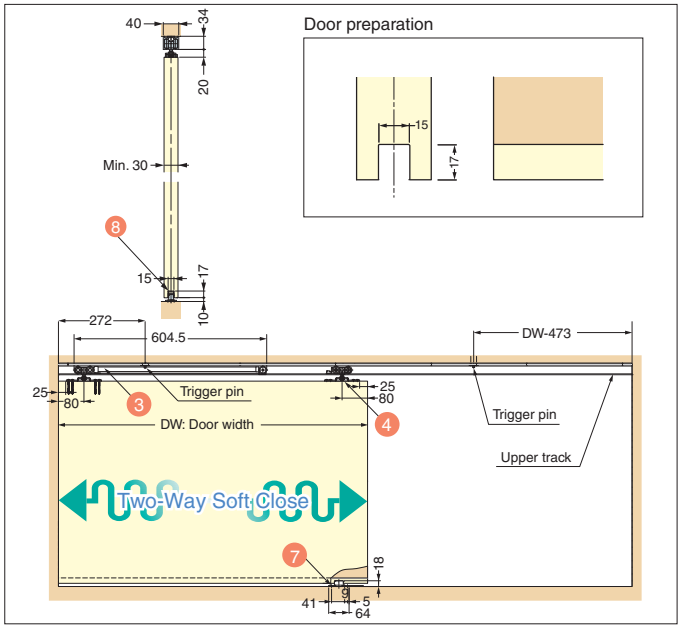
a FD80 / Recessed Mount Roller / Two-Way Soft Close



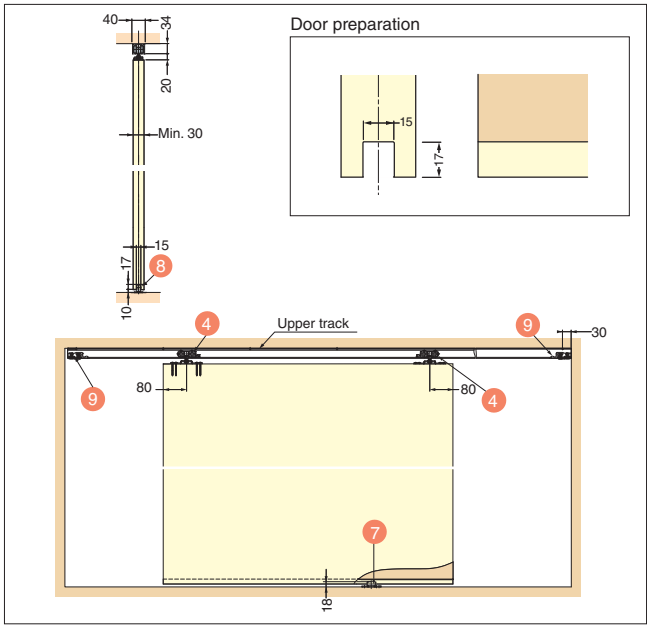
b FD80 / Recessed Mount Roller / Standard Sliding



c FD80 / Surface Mount Roller / Two-Way Soft Close



d FD80 / Surface Mount Roller / Standard Sliding



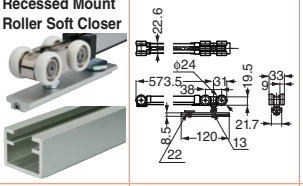
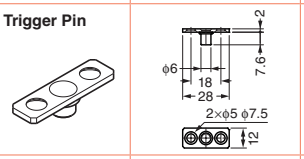
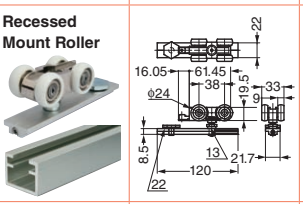
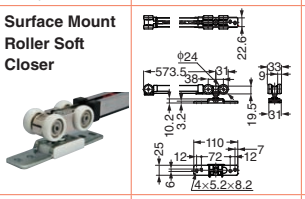
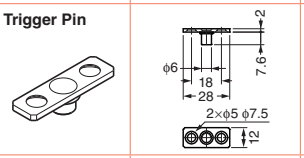
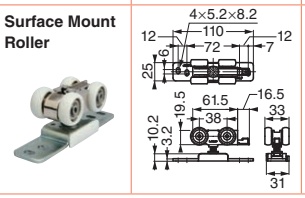
Parts Set (Per Door)

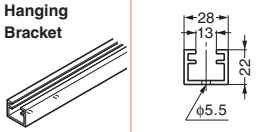
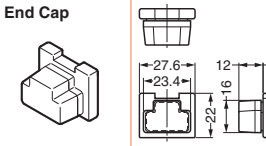
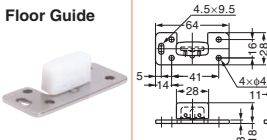
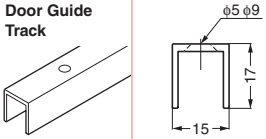
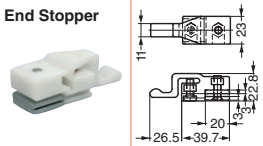
Necessary Parts

Please refer to "Qty [a] - [d] "for parts included in each set.

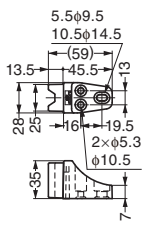
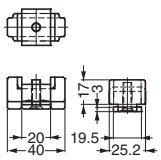
	Item Code	Item Name	Description
a	250-022-253	FD80-DHCHP	Recessed Mount Roller Two-Way Soft Close
b	250-022-254	FD80-HHP	Recessed Mount Roller Standard Sliding
c	250-022-255	FD80-DHCMP	Surface Mount Two-Way Soft Close
d	250-022-256	FD80-HMP	Surface Mount Standard Sliding

Parts Included

No.	Qty a	Qty b	Qty c	Qty d	Part Name	Dimensions	Description
1	1 pc	–	–	–	Recessed Mount Roller Soft Closer		Item Code : 250-022-239 Item Name : FD80-WRH-DSC ●Material Zinc Alloy / Polyacetal / Aluminium ●Finish Nickel / Black
	2 pcs	–	–	–	Trigger Pin		●Material Steel ●Finish Zinc Chromate
2	1 pc	2 pcs	–	–	Recessed Mount Roller		Item Code : 250-022-241 Item Name : FD80-WRH ●Material Zinc Alloy / Polyacetal / Aluminium ●Finish Nickel / Natural
3	–	–	1 pc	–	Surface Mount Roller Soft Closer		Item Code : 250-022-240 Item Name : FD80-WRM-DSC ●Material Steel / Polyacetal ●Finish Chromate / Black
	–	–	2 pcs	–	Trigger Pin		●Material Steel ●Finish Zinc Chromate
4	–	–	1 pc	2 pcs	Surface Mount Roller		Item Code : 250-022-242 Item Name : FD80-WRM ●Material Zinc Alloy / Polyacetal ●Finish Nickel / Natural

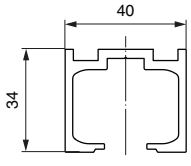
No.	Qty a	Qty b	Qty c	Qty d	Part Name	Dimensions	Description
5	2 pcs	2 pcs	–	–	Hanging Bracket		Item Code : 250-120-608 Item Name : FD70B-HB160 ●Material Aluminium ●Finish Anodized Silver
6	2 pcs	2 pcs	–	–	End Cap		Item Code : 250-121-142 Item Name : FD70B-EC ●Material Elastomer (TPE) ●Finish Black
7	1 pc	1 pc	1 pc	1 pc	Floor Guide		Item Code : 250-020-773 Item Name : FD50-BG18 ●Material SUS304 / POM ●Finish Plain / White
8	1 pc	1 pc	1 pc	1 pc	Door Guide Track		Item Code : 250-019-971 Item Name : FD30-HBRT1500SIL ●Material Aluminium ●Finish Anodized Silver
9	–	2 pcs	–	2 pcs	End Stopper		Item Code : 250-022-250 Item Name : FD80-HTST ●Material Steel / Polyacetal ●Finish Chromate / White

Optional Parts

No.	Item Code	Part Name	Dimensions	Description
10	250-018-497 FD30-HTKY	Door Stopper		●Material Zinc Alloy / Rubber ●Finish Grey
11	250-022-251 FD80-HSB	Stopper Block		●Material Steel / EPDM ●Finish Chromate / Black Used in upper track.

Upper Track

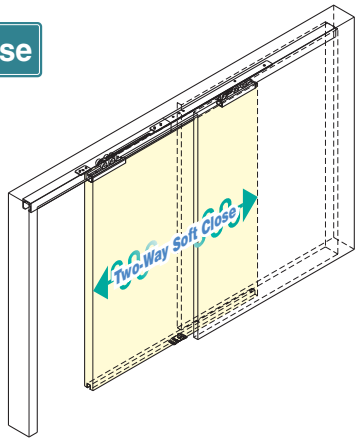
Necessary Parts

Mounting	Length	Item Code	Dimensions	Description
Surface Mount	2000 mm	250-022-244 FD80-TRM2000SL		●Material Aluminium ●Finish Anodized Silver
	2730 mm	250-022-246 FD80-TRM2730SL		●Material Aluminium ●Finish Anodized Silver
	3640 mm	250-022-248 FD80-TRM3640SL		●Material Aluminium ●Finish Anodized Silver

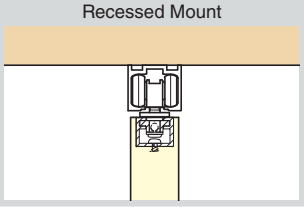
POCKET DOOR SYSTEM

STEEL **FD80-H**

Soft close

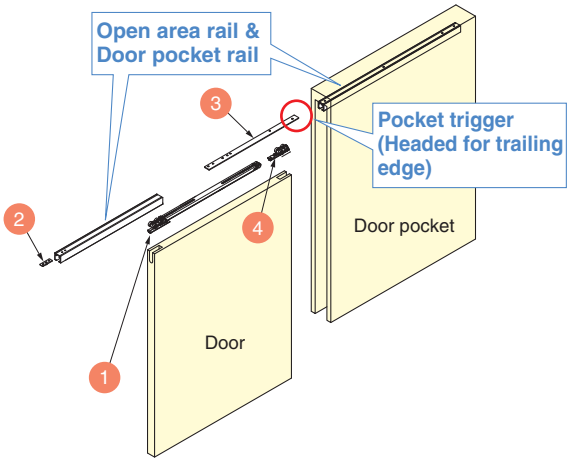


	Recessed Mount Type, with Two-Way Soft Close (below)	Surface Mount Type, with Two-Way Soft Close (P.686)
Door Weight	Max. 80 kg	
Door Thickness	Min. 34 mm	Min. 30 mm
Door Width	784 - 1500 mm	
Door Height	Max. 2500 mm	
Specification	For Single Door Use	
	Recessed Mount	Surface Mount



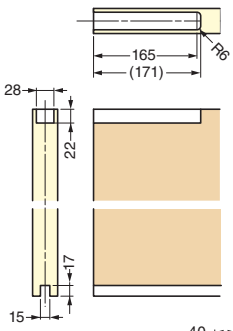
RECESSED MOUNT TYPE FOR POCKET DOOR

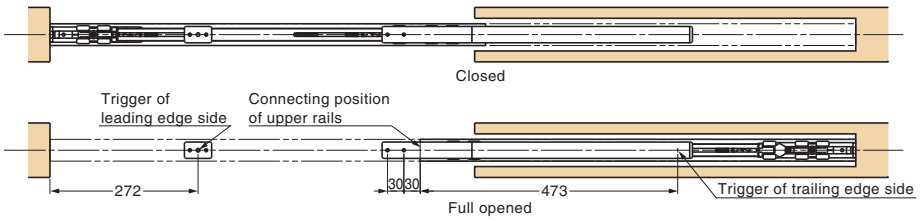
STEEL **FD80DHCHP-PD**

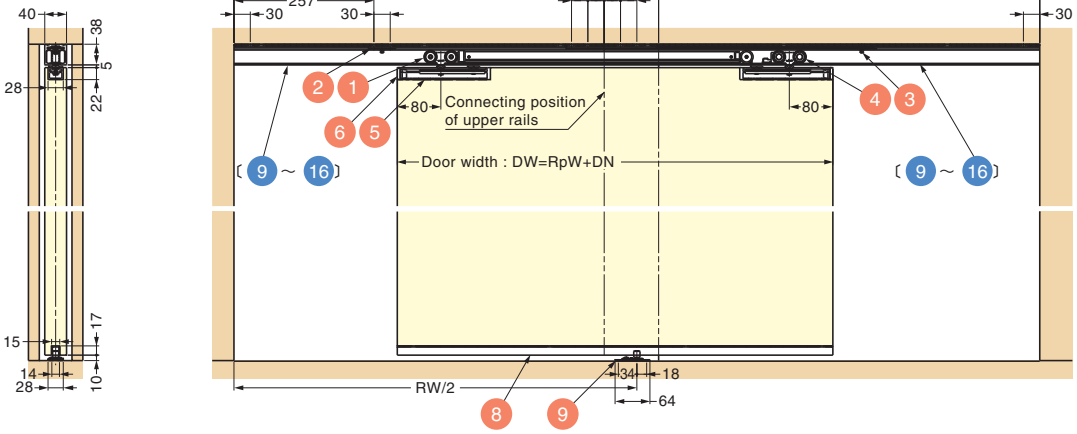


Features

- For pocket door with two-way soft close.
- Separated upper rail allows easy maintainance after door installation in pocket door application.
- For heavy duty.
- Designed for interior use, not for exterior.



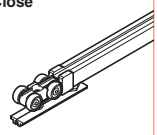
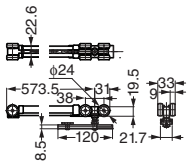
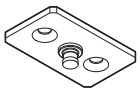
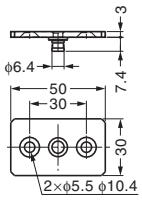
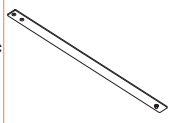
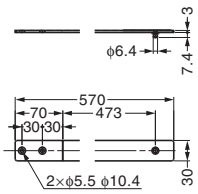
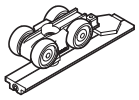
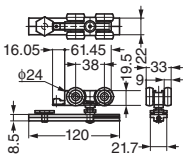
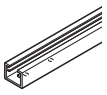
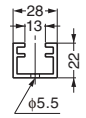
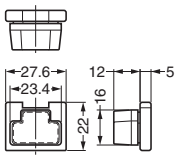
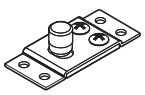
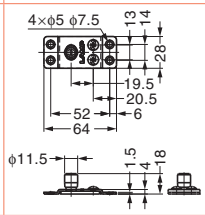
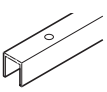
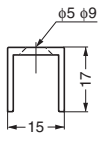




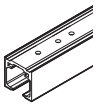
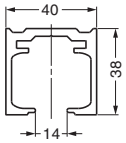
Parts Set (Per Door) — Necessary Parts

Item Code	Item Name	Description
250-029-771	FD80DHCHP-PD	Recessed Roller Two-Way Soft Close

Parts Included

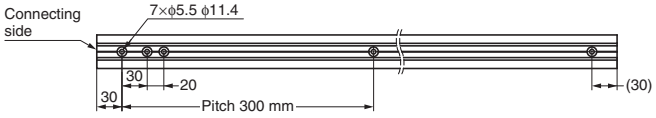
No.	Qty	Part Name	Dimensions	Description
1	1 pc	Recessed Mount Roller Two-Way Soft Close 		Item Code : 250-022-239 Item Name : FD80-WRH-DSC ●Material Zinc Alloy (ZDC) / Polyacetal (POM) ●Finish / Colour Nickel / Black 【Remarks】Do not use the included trigger.
2	1 pc	Front Trigger 		Item Code : 250-029-709 Item Name : FD80-TRGPF ●Material Stainless Steel (SUS304) ●Finish Plain
3	1 pc	Pocket Trigger 		Item Code : 250-029-708 Item Name : FD80-TRGPB ●Material Stainless Steel (SUS304) ●Finish Plain
4	1 pc	Recessed Roller 		Item Code : 250-022-241 Item Name : FD80-WRH ●Material Zinc Alloy (ZDC) / Polyacetal (POM) ●Finish / Colour Nickel / Natural
5	2 pcs	Hanging Bracket (160 mm) 		Item Code : 250-120-608 Item Name : FD70B-HB160 ●Material Aluminium Alloy ●Finish Anodized Silver ●Screw Pan Head Tapping Screw 5×40
6	2 pcs	End Cap 		Item Code : 250-121-142 Item Name : FD70B-EC-BL ●Material Elastomer (TPE) ●Colour Black
7	1 pc	Floor Guide 		Item Code : 250-029-718 Item Name : FD50-BGR18 ●Material Stainless Steel (SUS430) / Polyacetal (POM) ●Finish / Colour Polished / Natural ●Screw Raised Countersunk Head Tapping Screw 3.5×30
8	1 pc	Bottom Guide Rail (1500 mm) 		Item Code : 250-019-971 Item Name : FD30-HBRT1500SIL ●Material Aluminium Alloy ●Finish Anodized Silver

Upper Track — Necessary Parts

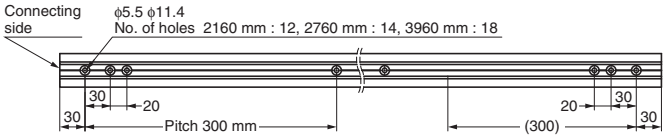
No.	Length	Item Code	Part Name	Dimensions	Description
9	1260 mm	250-029-692 FD80-TRP1260-SL	Upper Track 		●Material Aluminium Alloy ●Finish Anodized Silver
10	1860 mm	250-029-693 FD80-TRP1860-SL			
11	2760 mm	250-029-694 FD80-TRP2760-SL			
12	3960 mm	250-029-695 FD80-TRP3960-SL			

■Hole Dimensions of Upper Track

●In case of 1260 mm



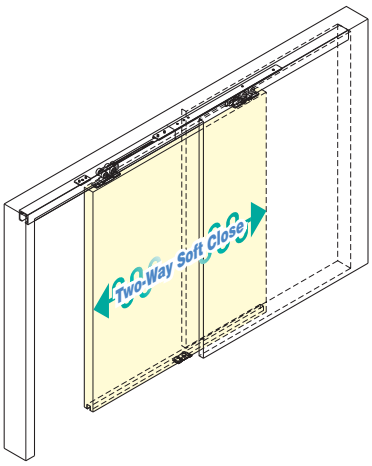
●In case of 2160 mm, 2760 mm & 3960 mm



SURFACE MOUNT TYPE FOR POCKET DOOR

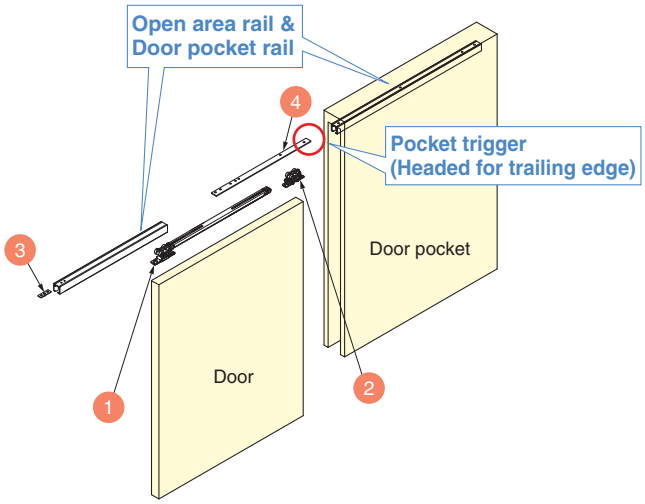
STEEL

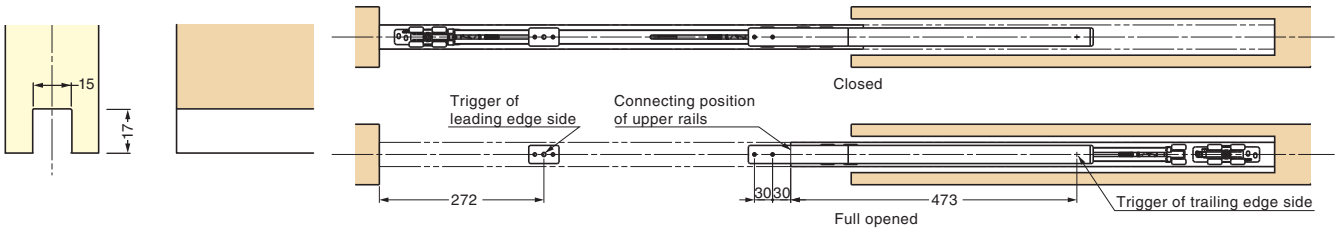
FD80DHCMP-PD

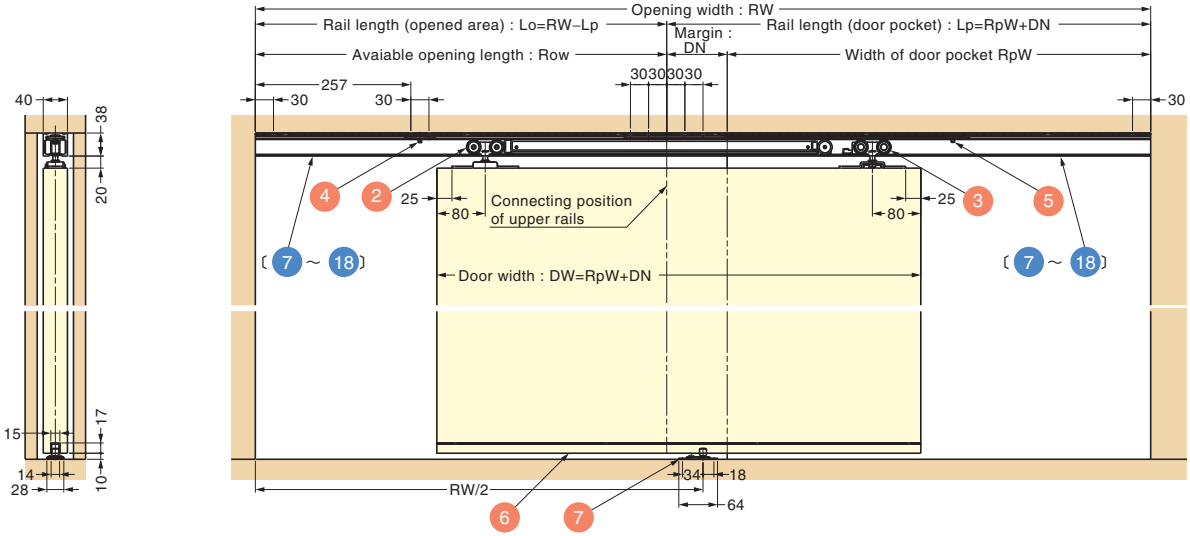


■Features

- For pocket door with two-way soft close.
- Separated upper rail allows easy maintainance after door installation in pocket door application.
- For heavy duty.
- Designed for interior use, not for exterior.



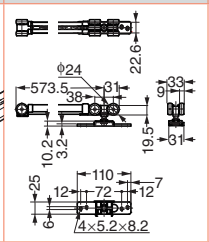
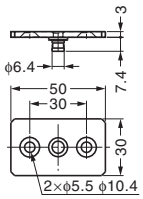
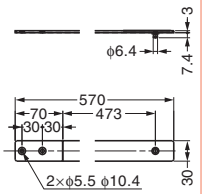
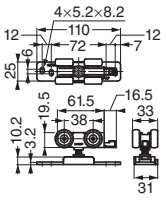
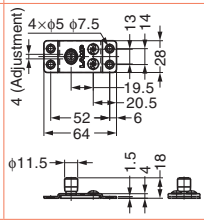
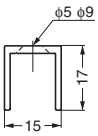




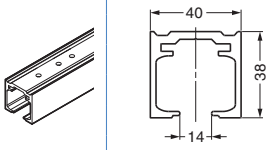
Parts Set (Per Door) — Necessary Parts

Item Code	Item Name	Description
250-029-722	FD80DHCMP-PD	Surface Mount Roller Two-Way Soft Close

Parts Included

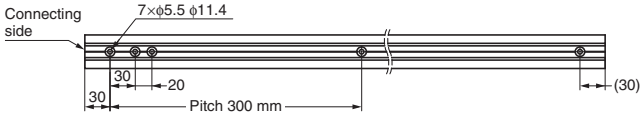
No.	Qty	Part Name	Dimensions	Description
1	1 pc	Surface Mount Roller Two-Way Soft Close		Item Code : 250-022-240 Item Name : FD80-WRM-DSC ●Material Steel / Polyacetal (POM) ●Finish Chromate / Black ●Screw Pan Head Tapping Screw 4×45 【Remarks】 Do not use the included trigger.
2	1 pc	Front Trigger		Item Code : 250-029-709 Item Name : FD80-TRGPF ●Material Stainless Steel (SUS304) ●Finish Plain
3	1 pc	Pocket Trigger		Item Code : 250-029-708 Item Name : FD80-TRGPB ●Material Stainless Steel (SUS304) ●Finish Plain
4	1 pc	Surface Mount Roller		Item Code : 250-022-242 Item Name : FD80-WRM ●Material Zinc Alloy (ZDC) / Polyacetal (POM) ●Finish Nickel / Natural ●Screw Pan Head Tapping Screw 4×45
5	1 pc	Floor Guide		Item Code : 250-029-718 Item Name : FD50-BGR18 ●Material Stainless Steel (SUS430) / Polyacetal (POM) ●Finish Countersunk / Natural ●Screw Pan Head Tapping Screw 4×45
6	1 pc	Bottom Guide Rail (1500 mm)		Item Code : 250-019-971 Item Name : FD30-HBRT1500SIL ●Material Aluminium Alloy ●Finish Anodized Silver

Upper Track — Necessary Parts

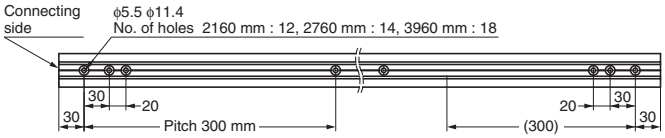
No.	Length	Item Code	Part Name	Dimensions	Description
7	1260 mm	250-029-692 FD80-TRP1260-SL	Upper Track		●Material Aluminium Alloy ●Finish Anodized Silver
8	1860 mm	250-029-693 FD80-TRP1860-SL			
9	2760 mm	250-029-694 FD80-TRP2760-SL			
10	3960 mm	250-029-695 FD80-TRP3960-SL			

■Hole Dimensions of Upper Track

●In case of 1260 mm



●In case of 2160 mm, 2760 mm & 3960 mm



ALUMINIUM FRAME SLIDING DOOR SYSTEM FD80-AF



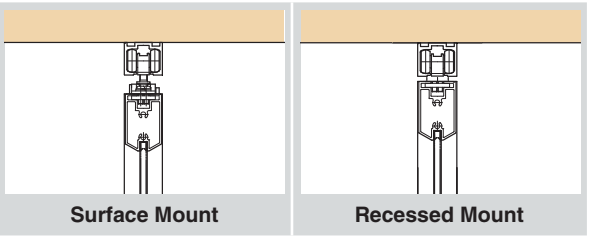




	a Two-Way Soft Close	b Standard Sliding	c Two-Way Soft Close	d Standard Sliding
Roller	Recessed Mount	Recessed Mount	Surface Mount	Surface Mount
Door Weight	Max. 80 kg/Door			
Glass Thickness	5 or 6 mm			
Door Width	784 - 1500 mm	Max. 1500 mm	804 - 1500 mm	Max. 1500 mm
Door Height	Max. 3000 mm			
Height Adjustment	-1/+4 mm		±4 mm	

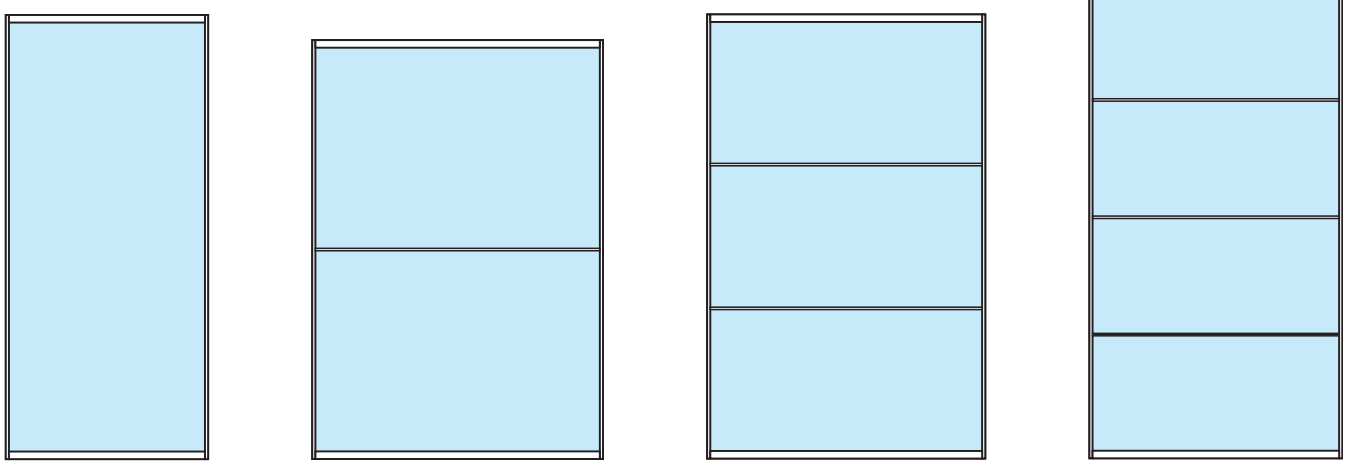
■Features

- Two-way soft closer option available.
- Surface or recessed mount roller available.
- Thick aluminium profile provides excellent rigidity preventing door flex.
- Ball bearing roller provides ultra smooth movement.
- Easy assembly and installation.
- Intermediate support not needed when door size within H 2200 mm x W 900 mm.
- No rail on floor needed.
- Swing door version available for total coordination (P.710～ 711).
- Black frame available by special order.



Surface Mount | Recessed Mount

* Intermediate support required when either door height or door width exceeds standard size. Pictures shown below are door size examples which require intermediate support.



Standard Size [No support required.]
(Smaller than H 2200 x W 900)

1 Support
(Smaller than H 2000 x W 1600)

2 Supports
(Smaller than H 2200 x W 1500)

3 Supports
(Smaller than H 2500 x W 1300)

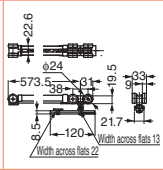
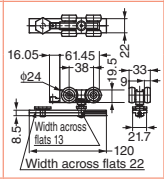
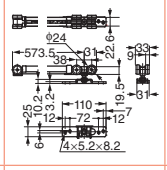
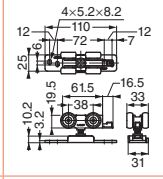
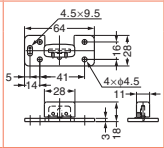
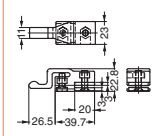
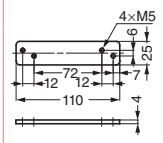
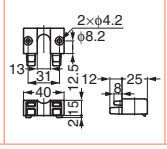
Parts Set (Per Door)

Necessary Parts

Please refer to "Qty a - d "for parts included in each set.

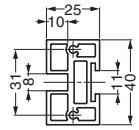
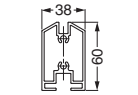
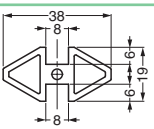
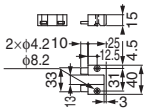
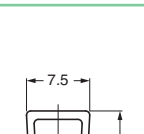
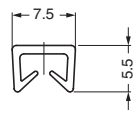
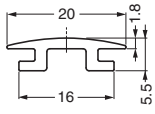
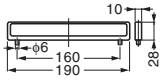
	Item Code	Item Name	Description
a	250-022-257	FD80-DHCHP-AF	Recessed Mount Roller Two Way Soft-Close
b	250-022-258	FD80-HHP-AF	Recessed Mount Roller Standard Sliding
c	250-022-259	FD80-DHCMP-AF	Surface Mount Roller Two Way Soft-Close
d	250-022-260	FD80-HMP-AF	Surface Mount Roller Standard Sliding

Parts Included

No.	Qty a	Qty b	Qty c	Qty d	Part Name	Dimensions	Description
1	1 pc	–	–	–	Recessed Mount Soft-Closer (Two-Way)		Item Code : 250-022-239 Item Name : FD80-WRH-DSC ●Material Steel / Polyacetal ●Finish Chromate / Black ●With 2 pcs Trigger Pins
2	1 pc	2 pcs	–	–	Recessed Mount Standard Sliding		Item Code : 250-022-241 Item Name : FD80-WRH ●Material Zinc Alloy / Polyacetal ●Finish Nickel / Natural
3	–	–	1 pc	–	Surface Mount Soft-Closer (Two-Way)		Item Code : 250-022-240 Item Name : FD80-WRM-DSC ●Material Steel / Polyacetal ●Finish Chromate / Black ●With 2 pcs Trigger Pins
4	–	–	1 pc	2 pcs	Surface Mount Standard Sliding		Item Code : 250-022-242 Item Name : FD80-WRM ●Material Zinc Alloy / Polyacetal ●Finish Nickel / Natural
5	1 pc	1 pc	1 pc	1 pc	Floor Guide		Item Code : 250-020-773 Item Name : FD50-BG18 ●Material SUS 304 / POM ●Finish Plain / White
6	–	2 pcs	–	2 pcs	End Stopper		Item Code : 250-022-250 Item Name : FD80-HTST ●Material Steel / Polyacetal ●Finish Chromate / White
7	–	–	1 pc	1 pc	Sheet Nut		Item Code : 250-022-243 Item Name : FD80-AFB ●Material Steel ●Finish Chromate
8	2 pcs	2 pcs	–	–	Corner Cap		Item Code : 250-121-141 Item Name : AF-25HB-EC ●Material Elastomer ●Finish Grey

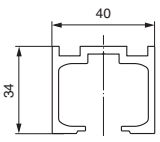
Aluminium Frame Parts

For One Door

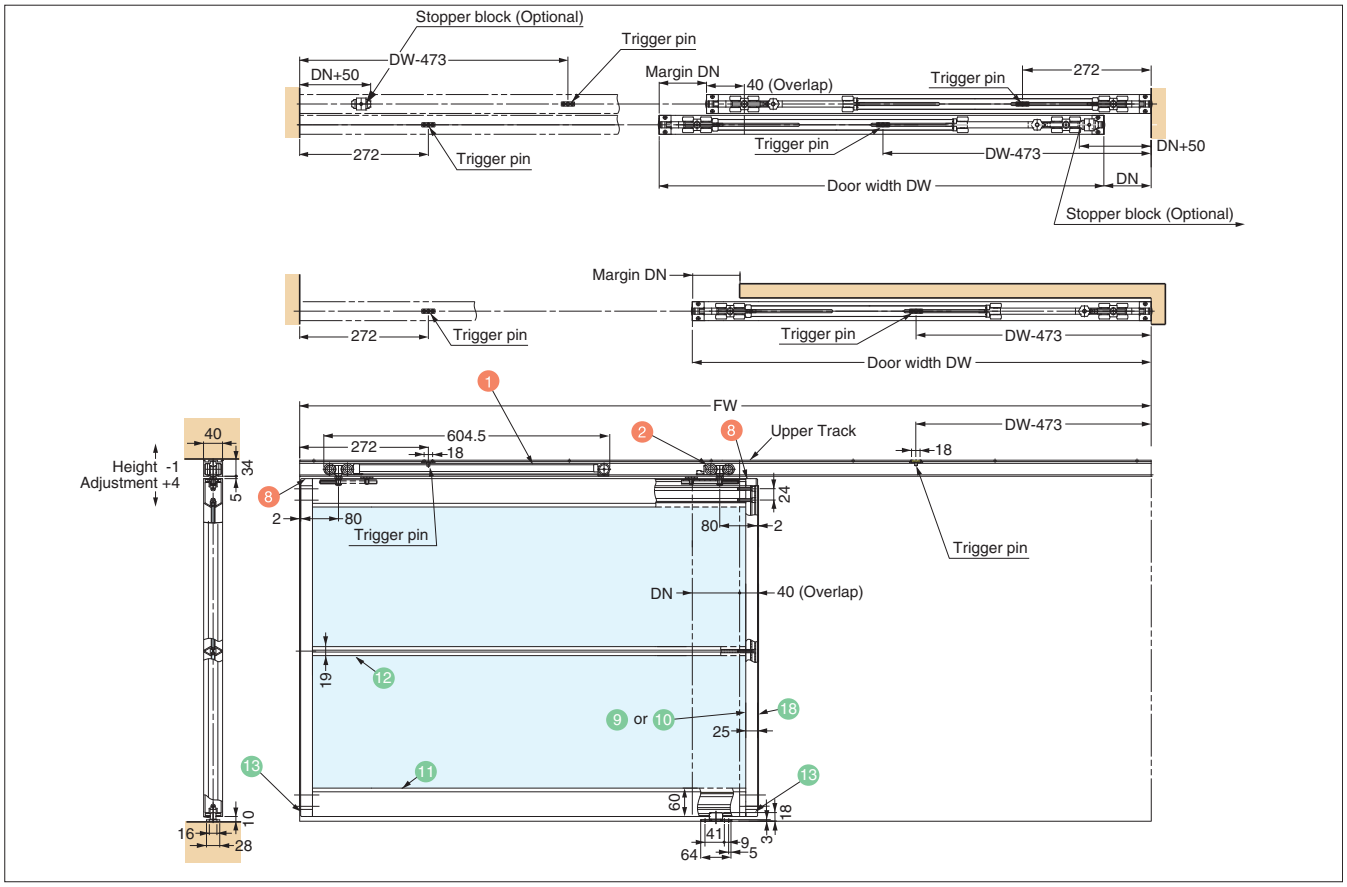
No.	Item Code	Part Name	Dimensions	Description
9	250-940-965 AF-25-W01-2.5M	Vertical Frame L : 2500 mm		●Material Aluminium ●Finish Matte Silver
10	250-121-116 AF-25-W01-3M	Vertical Frame L : 3000 mm		●Material Aluminium ●Finish Matte Silver
11	250-120-070 AF-25-W02	Horizontal Frame L : 2000 mm		●Material Aluminium ●Finish Matte Silver
12	250-940-967 AF-25-W03 (Optional)	Intermediate Support L : 2000 mm		●Material Aluminium ●Finish Matte Silver
13	250-120-056 AF-25-P04	Corner Parts ※a b: 2 pcs, c d: 4 pcs		●Material Zinc Alloy ●Finish Matte Chrome
14	250-940-960 AF-25-P02	Gasket For 5 mm Glass L : 2500 mm		●Material Elastomer ●Finish Light Grey
15	250-181-197 AF-25-P15	Gasket For 6 mm Glass L : 3000 mm		●Material Elastomer ●Finish Light Grey
16	250-940-961 AF-25-P03 (Optional)	Gasket For Intermediate Support For 5 mm Glass L : 2500 mm		●Material Elastomer ●Finish Light Grey
17	250-181-196 AF-25-P16 (Optional)	Gasket For Intermediate Support For 6 mm Glass L : 2500 mm		●Material Elastomer ●Finish Light Grey
18	270-940-959 AF-25-P01-25	Edge Cover L : 2500 mm		●Material Elastomer ●Finish Light Grey
19	100-010-386 MN799Z160E101 (Optional)	Handle		●Material Zinc Alloy ●Finish Matte Chrome
20	250-181-199 AF-25-HS	Screw Set		M6×30 Hex. Bolt : 8 pcs M4×30 Hex. Bolt (For Intermediate Support) : 6 pcs M4×25 Allen Screw : 8 pcs ●Material SUS 304 ●Finish Plain

Upper Track

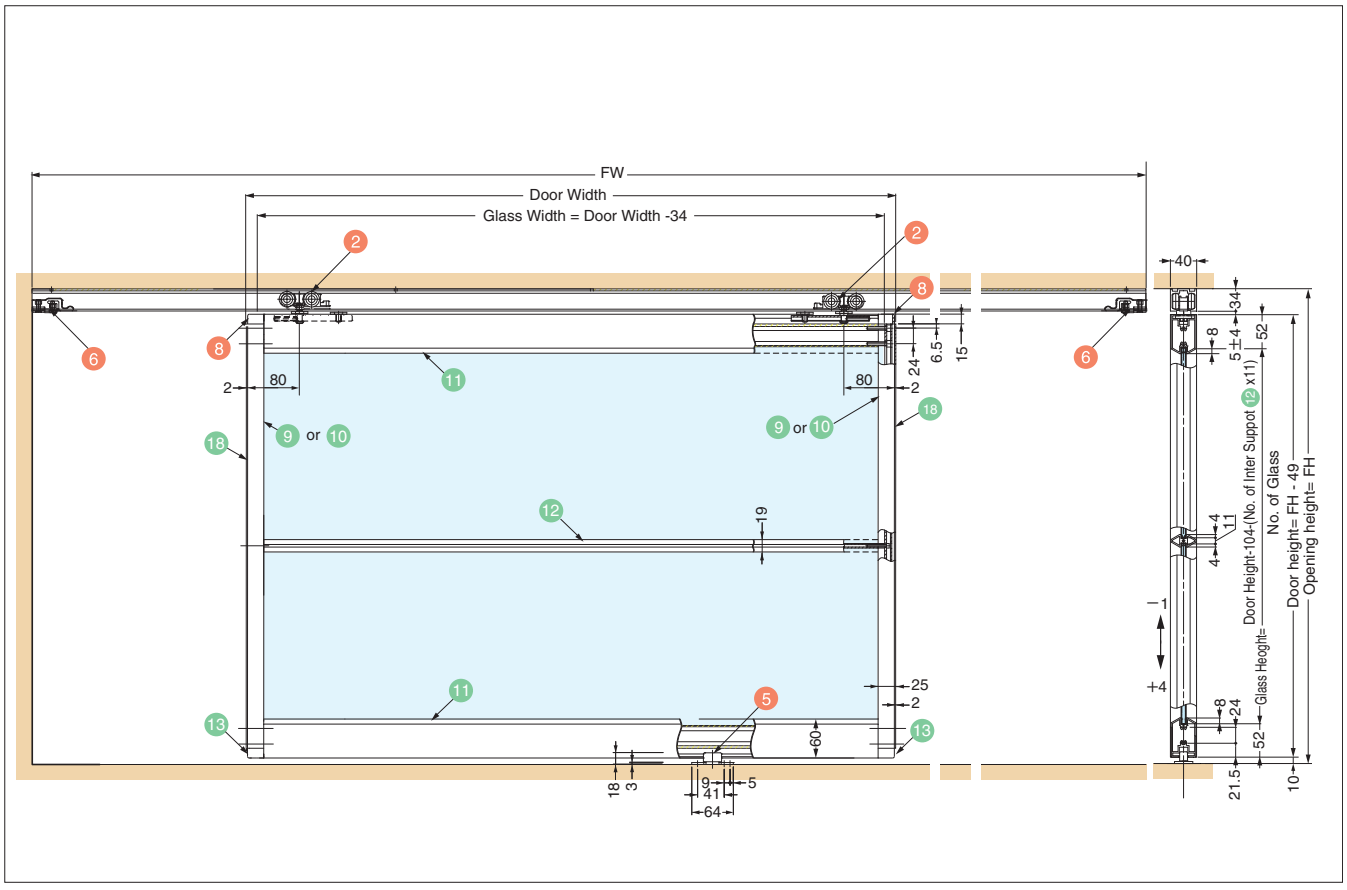
Necessary Parts

Mounting	Length	Item Code	Dimensions	Description
Surface Mount	2000 mm	250-022-244 FD80-TRM2000SL		●Material Aluminium ●Finish Anodized Silver
	2730 mm	250-022-246 FD80-TRM2730SL		●Material Aluminium ●Finish Anodized Silver
	3640 mm	250-022-248 FD80-TRM3640SL		●Material Aluminium ●Finish Anodized Silver

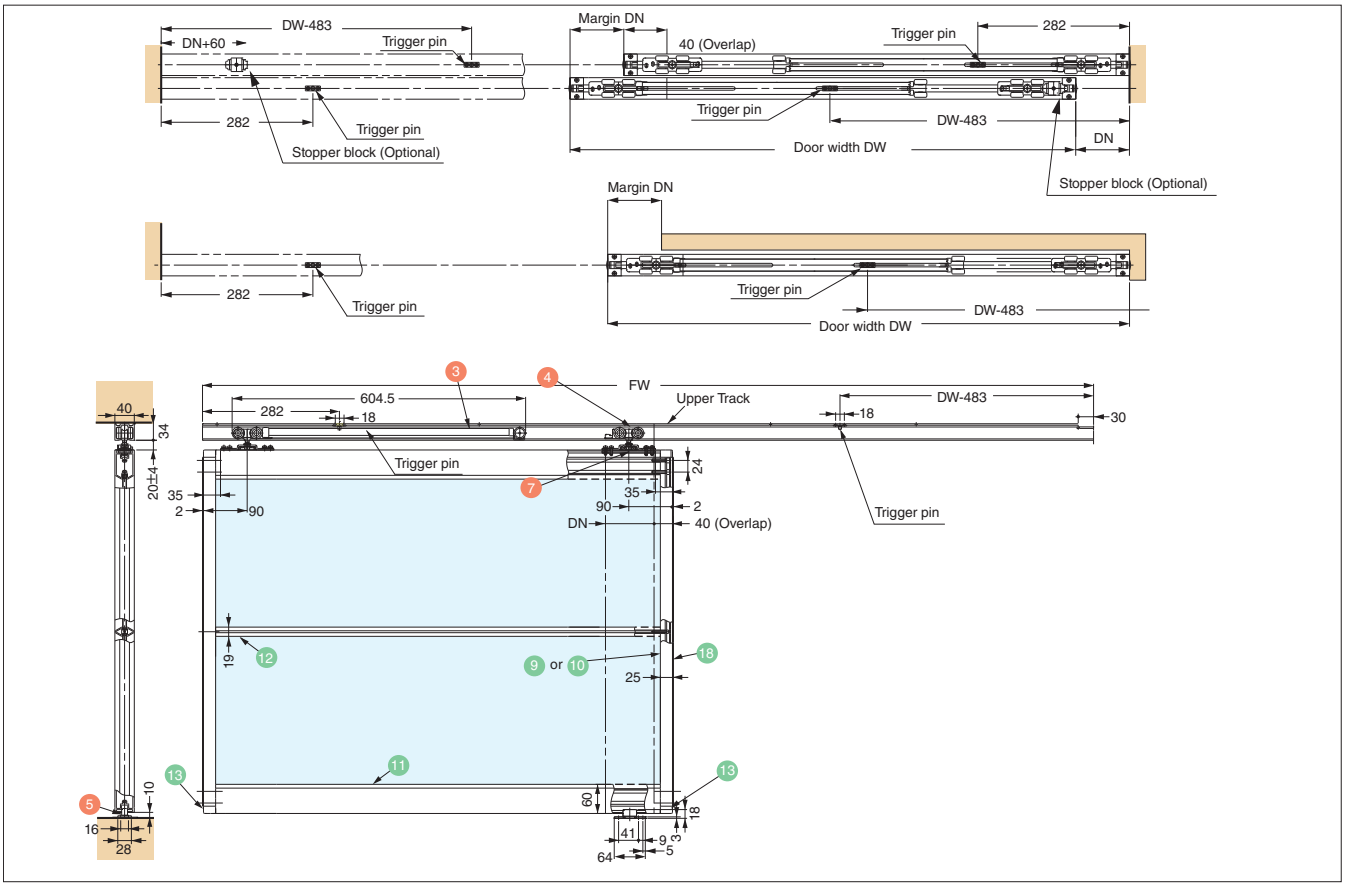
a FD80-AF / Recessed Mount Roller / Two-Way Soft Close



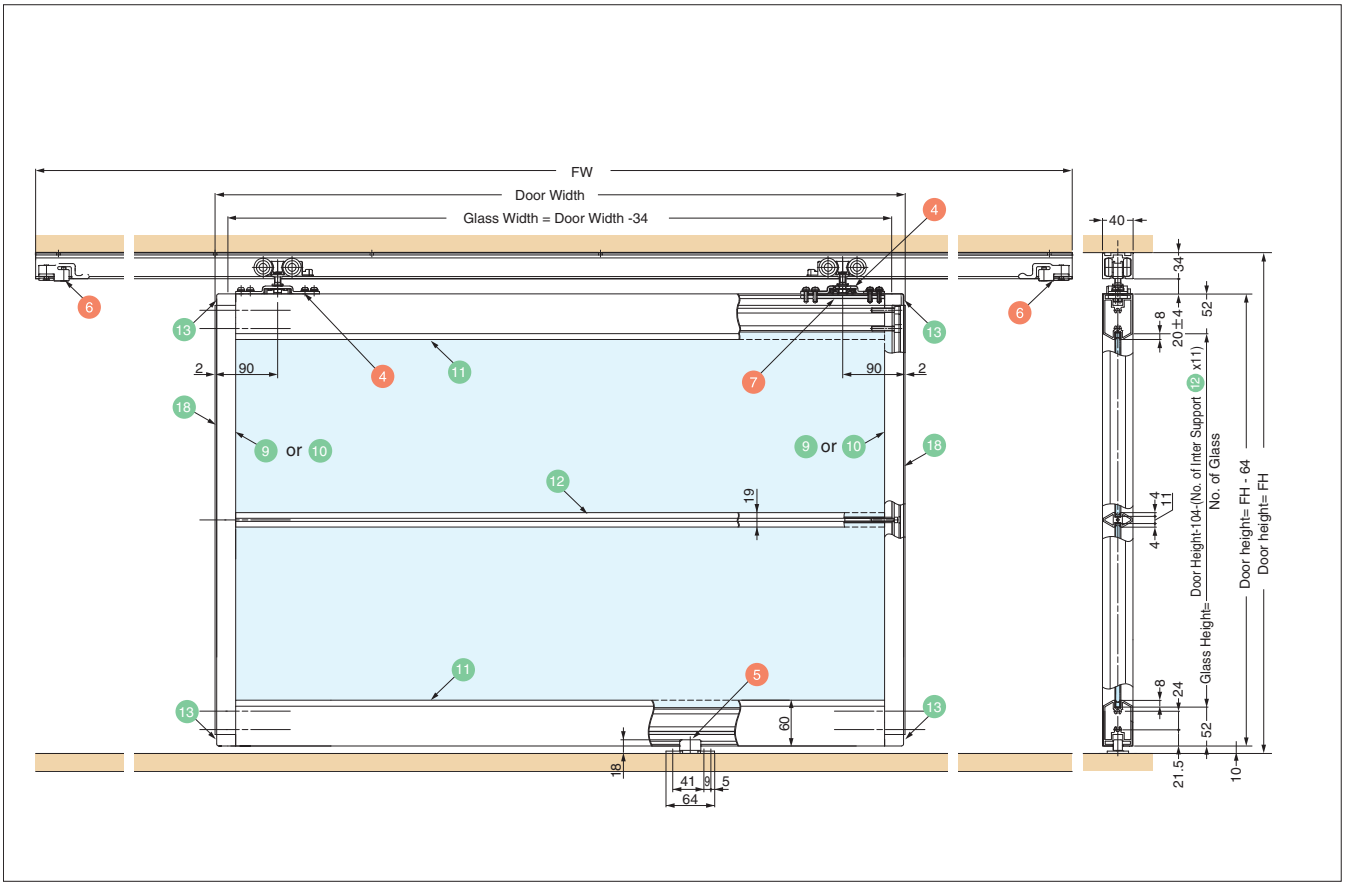
b FD80-AF / Recessed Mount Roller / Standard Sliding



c FD80-AF / Surface Mount Roller / Two-Way Soft Close



d FD80-AF / Surface Mount Roller / Standard Sliding



SELF CLOSING SLIDE DOOR SYSTEM

STEEL **SRS**

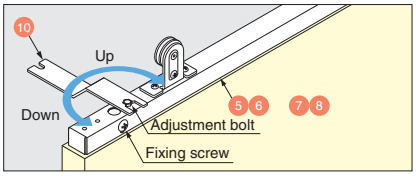


Door Weight	Max. 30 kg/Door
Door Thickness	28.4-36 mm
Door Width	810 mm or 860 mm

■Features

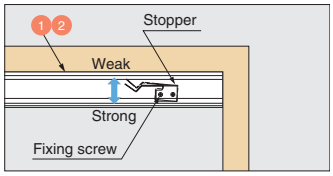
- Self closing door system.
- Equipped with damper for smooth and soft closing.

■Adjustment of Door Height & Gradient



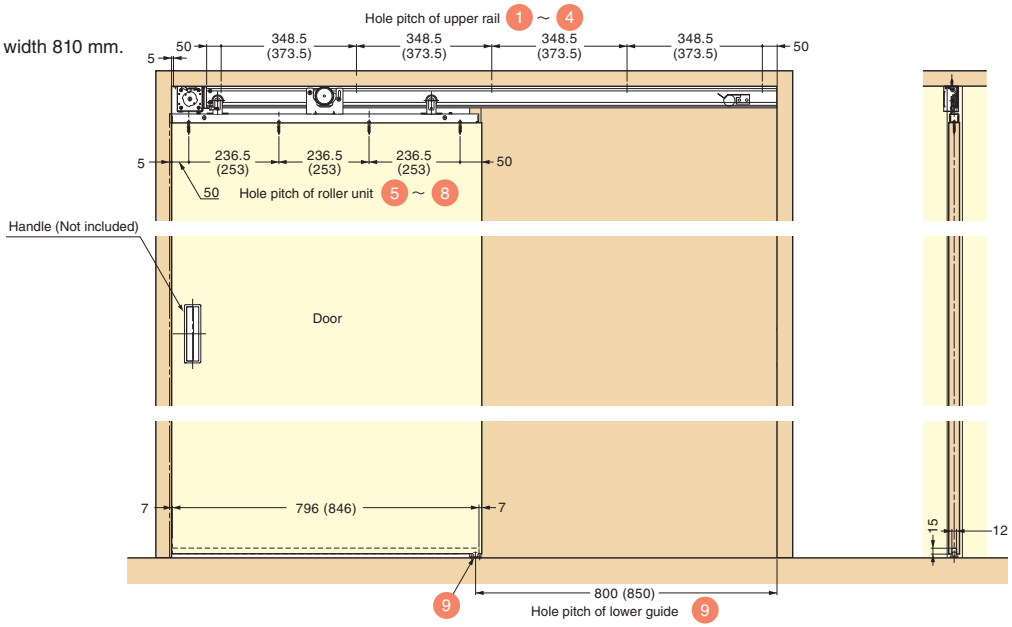
Adjustable height: -6 mm

■Adjustment of Retaining Force



■Installation

( ): Dimensions for door width 810 mm.



Parts Set (Per Door)

Necessary Parts

Please refer to "Qty [a] - [d] "for parts included in each set.

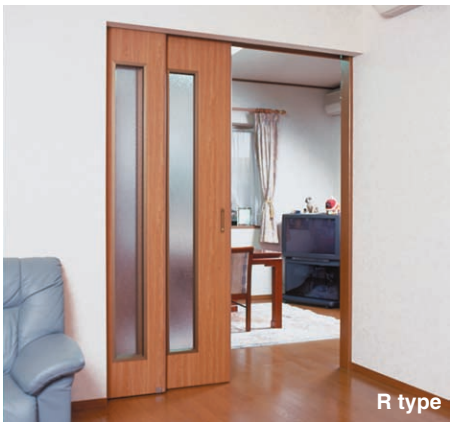
	Item Code	Item Name	Description
a	250-120-073	SRS-810 (R)	R Type for Door Width 810 mm
b	250-120-588	SRS-810 (L)	L Type for Door Width 810 mm
c	250-120-072	SRS-860 (R)	R Type for Door Width 860 mm
d	250-120-589	SRS-860 (L)	L Type for Door Width 860 mm

Parts Included

No.	Qty [a]	[b]	[c]	[d]	Part Name	Description
1	1 pc	–	–	–	Upper Rail - R Type for Door Width 810 mm	●Material Aluminium Alloy ●Finish Anodized Silver
2	–	1 pc	–	–	Upper Rail - L Type for Door Width 810 mm	
3	–	–	1 pc	–	Upper Rail - R Type for Door Width 860 mm	●Material Aluminium Alloy ●Finish Anodized Silver
4	–	–	–	1 pc	Upper Rail - L Type for Door Width 860 mm	●Material Aluminium Alloy ●Finish Anodized Silver
5	1 pc	–	–	–	Roller Unit A - R Type for Door Width 810 mm	●Material Steel ●Colour Black
6	–	1 pc	–	–	Roller Unit A - L Type for Door Width 810 mm	●Material Steel ●Colour Black
7	–	–	1 pc	–	Roller Unit B - R Type for Door Width 860 mm	●Material Steel ●Colour Black
8	–	–	–	1 pc	Roller Unit B - L Type for Door Width 860 mm	
9	1 pc	1 pc	1 pc	1 pc	Bottom Guide	●Material Polyamide (PA) ●Finish Natural
10	1 pc	1 pc	1 pc	1 pc	Adjuster	●Material Steel ●Finish Yellow Zinc Chromate

SELF CLOSING SLIDE DOOR SYSTEM

STEEL **SRW**

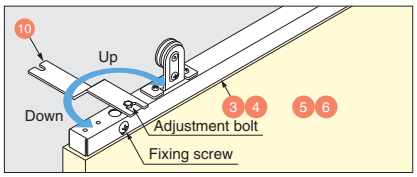


Door Weight	Max. 30 kg/Door
Door Thickness	28.4-30 mm
Door Width	550 mm

■Features

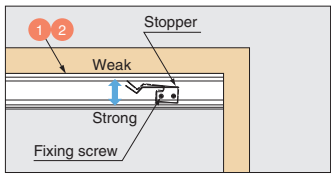
- Self closing door system.
- Equipped with damper for smooth and soft closing, eliminates slamming.
- Wider opening creates more space.

■Adjustment of Door Height & Gradient

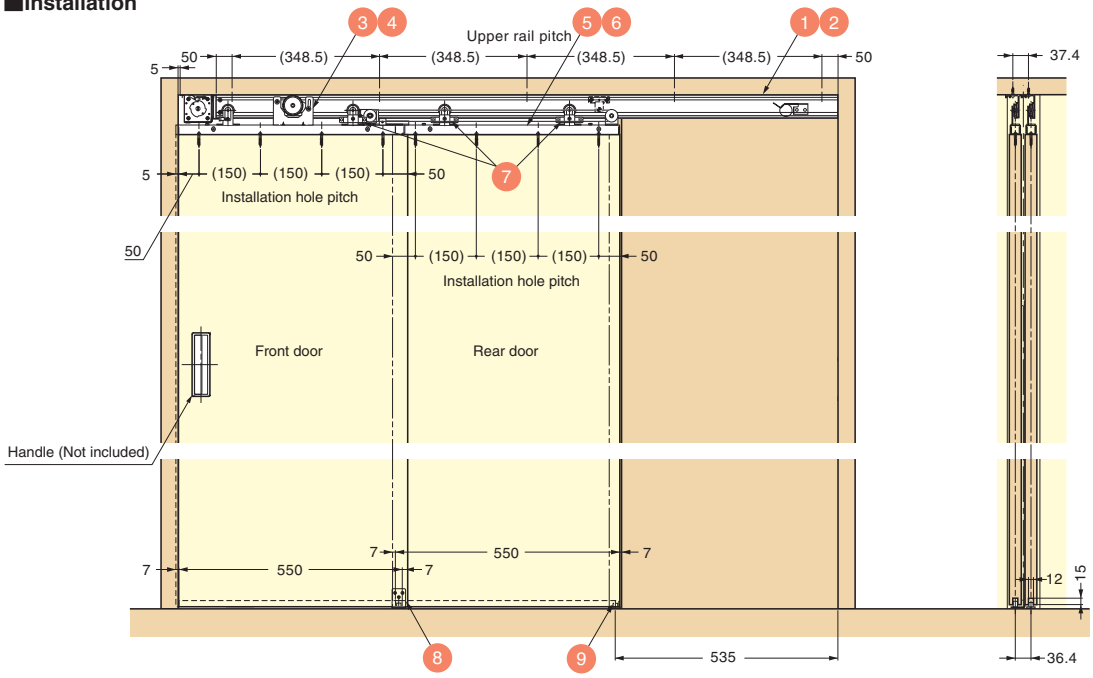


Adjustable height: -6 mm

■Adjustment of Retaining Force



■Installation



Parts Set (Per 2 Doors)

Necessary Parts

Please refer to "Qty [a] & [b] "for parts included in each set.

	Item Code	Item Name	Description
[a]	250-120-074	SRW-550 (R)	R Type
[b]	250-120-587	SRW-550 (L)	L Type

Parts Included

No.	Qty [a]	Qty [b]	Part Name	Description
1	1 pc	—	Upper Rail - R Type	●Material Aluminium Alloy ●Finish Anodized Silver
2	—	1 pc	Upper Rail - L Type	●Material Aluminium Alloy ●Finish Anodized Silver
3	1 pc	—	Roller Unit A - R Type	●Material Steel ●Colour Black
4	—	1 pc	Roller Unit A - L Type	●Material Steel ●Colour Black

No.	Qty [a]	Qty [b]	Part Name	Description
5	1 pc	—	Roller Unit B - R Type	●Material Steel ●Colour Black
6	—	1 pc	Roller Unit B - L Type	●Material Steel ●Colour Black
7	3 pcs	3 pcs	Supporting Roller	●Material Steel ●Finish Plain
8	1 pc	1 pc	Bottom Guide	●Material Steel ●Finish Plain
9	1 pc	1 pc	Bottom Roller Guide	●Material Polyamide (PA) ●Finish Natural
10	1 pc	1 pc	Adjuster	●Material Steel

SELF CLOSING SLIDE DOOR SYSTEM

L=R STEEL **LM-80**



Door Weight	30-80 kg/Door
Door Thickness	28-40 mm
Door Width	700-1200 mm
Door Travel	Max. 1100 mm (In Case of Door Width 1200 mm)

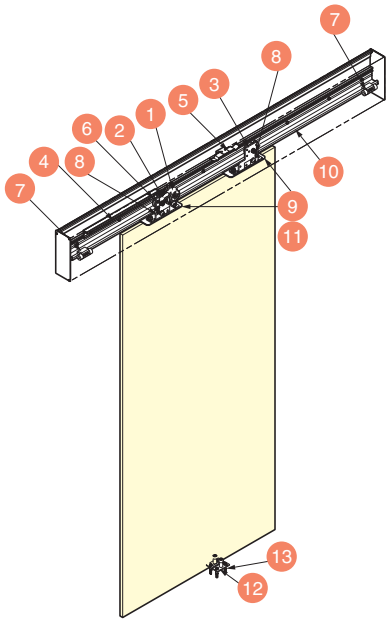
■Features

- Self closing slide door system. No electricity required.
- Equipped with damper for smooth and soft closing, eliminating slamming.
- Door catch included to hold door in fully open position.
- Damping speed adjustable for best soft closing.

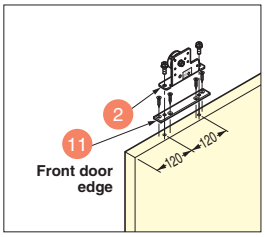
■Remarks

- Please secure enough clearance between door and rail cover.
- Rail cover for door of Max. 32 mm thickness is available upon request.

Video Link

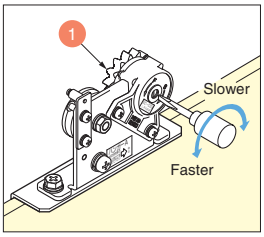


■Installation of Roller

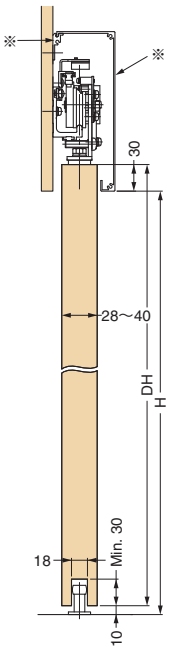


Roller brackets for solid phenolic panel and wooden door included.

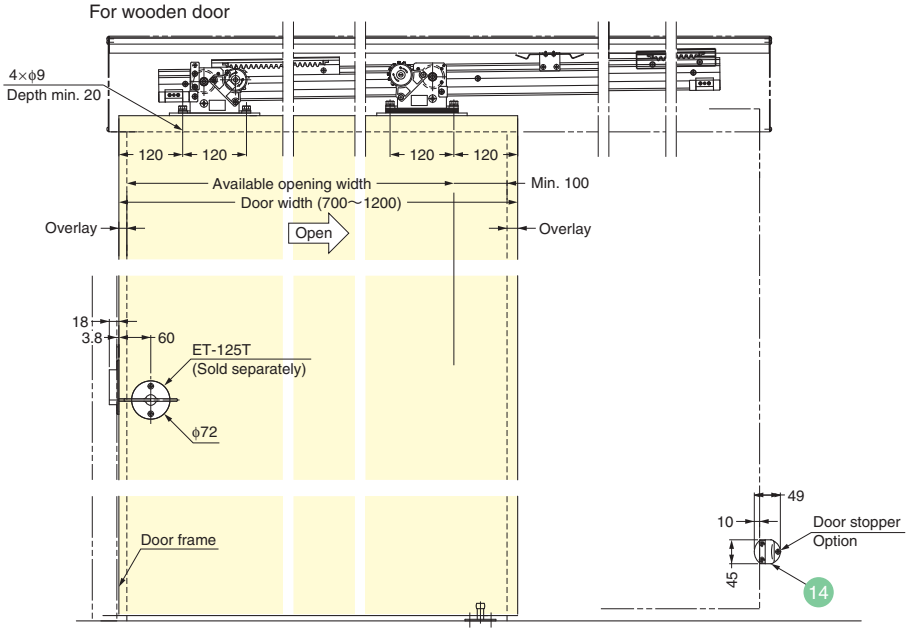
■Adjustment of Closing Speed



※Not included.



For wooden door

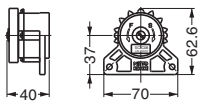
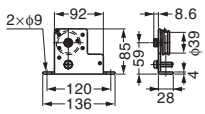
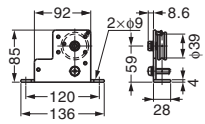
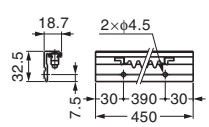
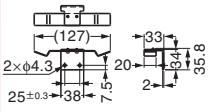
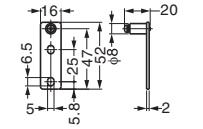
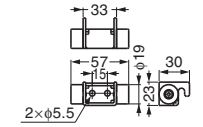
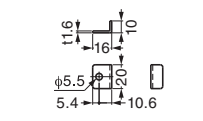
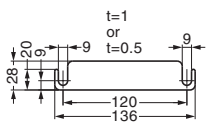
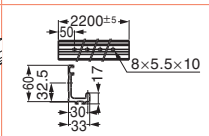
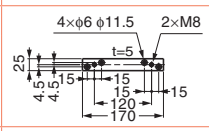
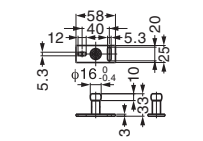


Parts Set (Per Door)

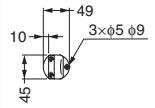
Necessary Parts

Item Code	Item Name
250-010-613	LM-80

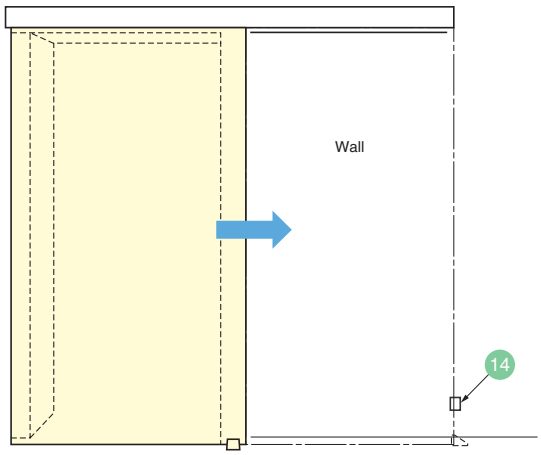
Parts Included

No.	Qty	Part Name	Dimensions	Description
1	1 pc	Damper		**Item Code : 280-188-561** **Item No. : SC-C08** ●Material POM ●Colour Black
2	1 pc	Roller A		●Material Steel / POM ●Finish Yellow Zinc Chromate / White
3	1 pc	Roller B		●Material Steel / POM ●Finish Yellow Zinc Chromate / White
4	1 set	Gear Rack		**Item Code : 280-188-560** **Item No. : SC-C07** ●Material Aluminium Alloy ●Finish Plain
5	1 pc	Spring		●Material Steel / Spring Steel ●Finish Yellow Zinc Chromate / Plain
6	1 pc	Stopper Roller		●Material Steel ●Finish Chromate
7	2 pcs	Door Stopper		●Material Stainless Steel
8	2 pcs	Stopper Plate		●Material Steel ●Finish Chromate
9	t=1 : 15 pcs t=0.5 : 1 pc	Height Adjustment Spacer		●Material Steel ●Finish Plain
10	1 pc	Upper Rail		●Material Aluminium Alloy ●Finish Anodized
11	2 pcs	Roller Bracket		●Material Steel ●Finish Chromate
12	1 pc	Bottom Roller Guide		●Material Stainless Steel / Polyacetal (POM)
13	2 pcs	Anchor 6×30		–	●Material Polyamide (PA) ●Colour Grey

Optional Parts

No.	Item Code	Part Name	Dimensions	Description
14	280-189-066 162-811	Door Stopper		●Material Zinc Alloy (ZDC) & Rubber ●Finish Satin Chrome

■Installation of Door Stopper



SELF CLOSING SLIDE DOOR SYSTEM

L=R STEEL **LM-80G**

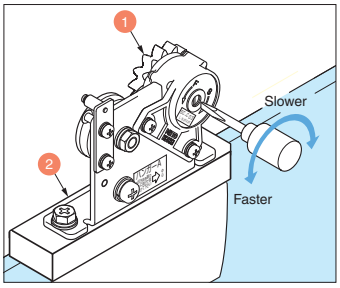


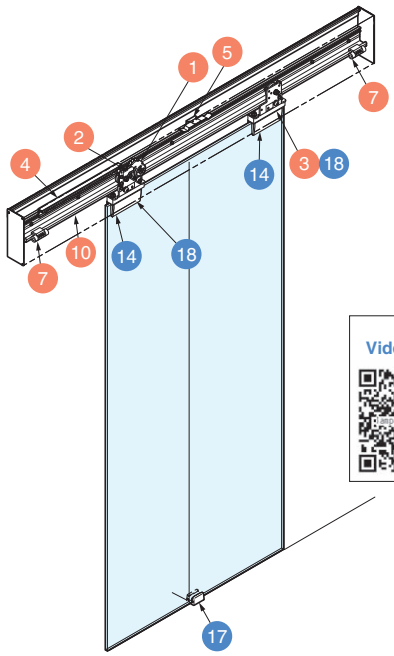
Door Weight	30-80 kg/Door
Door Thickness	8-12 mm
Door Width	700-1200 mm
Door Travel	Max. 1100 mm (In Case of Door Width 1200 mm)

■Features

- Self closing slide door system. No electricity required.
- Equipped with damper for smooth and soft closing, eliminating slamming.
- No pre-drilled holes on glass needed for installation.
- Door catch included to hold door in fully open position.

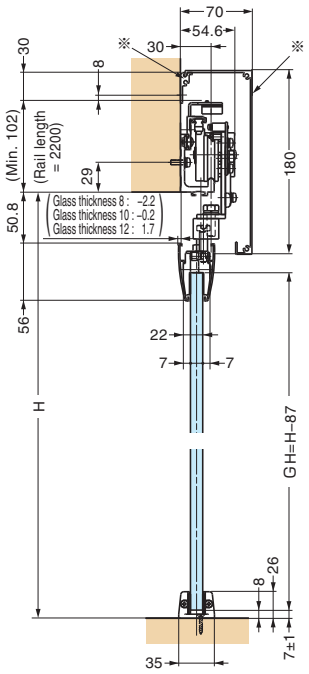
■Speed Adjustment

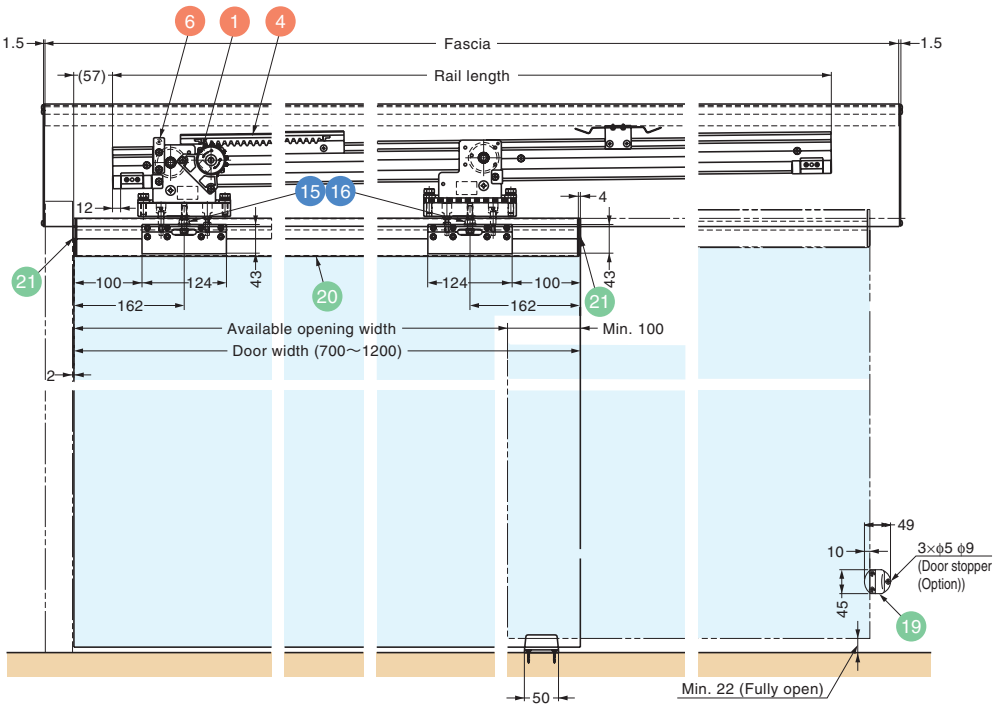




Video Link

※Not included.

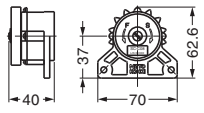
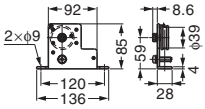
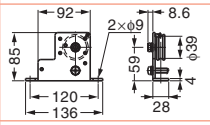
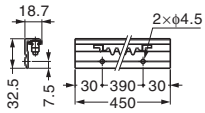
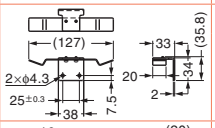
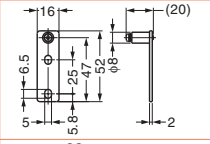
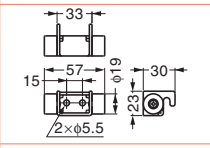
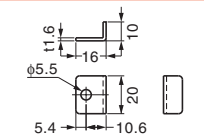
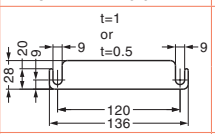
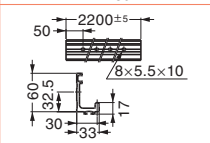
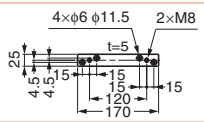
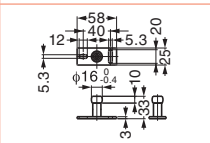




Parts Set (Per Door) — Necessary Parts

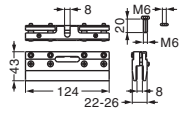
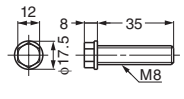
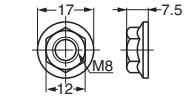
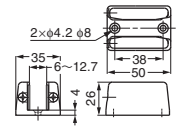
Item Code	Item Name
250-010-613	LM-80

Parts Included

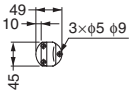
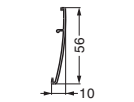
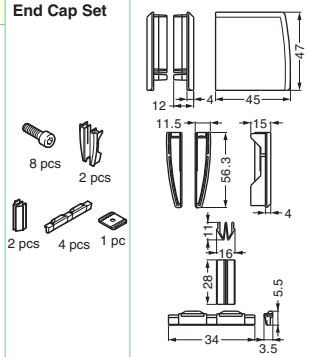
No.	Qty	Part Name	Dimensions	Description
1	1 pc	Damper		Item Code : 280-188-561 Item No. SC-C08 ●Material Polyacetal (POM) ●Colour Black
2	1 pc	Roller A		●Material Steel / Polyacetal (POM) ●Finish Yellow Zinc Chromate / White
3	1 pc	Roller B		●Material Steel / Polyacetal (POM) ●Finish Yellow Zinc Chromate / White
4	1 pc	Gear Rack		Item Code : 280-188-560 Item No. SC-C07 ●Material Aluminum Alloy ●Finish Plain
5	1 pc	Spring		●Material Steel ●Finish Yellow Zinc Chromate / Plain
6	1 pc	Stopper Roller		●Material Steel ●Finish Yellow Zinc Chromate
7	2 pcs	Door Stopper		●Material Stainless Steel
8	2 pcs	Stopper Plate		●Material Steel ●Finish Yellow Zinc Chromate
9	t= 1: 15 pcs t= 0.5: 1 pc	Height Adjustment Spacer		●Material Steel ●Finish Plain
10	1 pc	Upper Rail (2200 mm)		●Material Aluminium Alloy ●Finish Anodized Silver
11	2 pcs	Roller Bracket		●Material Steel ●Finish Chromate
12	1 pc	Bottom Roller Guide		●Material Stainless Steel / Polyacetal (POM)
13	2 pcs	Anchor 6×30	–	●Material Polyamide (PA) ●Colour Grey

※Do not use 11～13 for LM-80G.

Hanger Parts — Necessary Parts

No.	Qty	Item Code	Part Name	Dimensions	Description
14	2 pcs	250-026-559 Item Name 800-0012-031	Glass Bracket		●Material Aluminium Alloy ●Finish Plain
15	2 pcs	250-018-564 Item Name HFB8-35	Hanger Bolt		●Material Steel ●Finish Chromate
16	2 pcs	250-018-670 Item Name FNS8	Nut		●Material Steel ●Finish Chromate
17	1 pc	250-120-617 Item Name 57-3030-071	Bottom Guide		●Material Zinc Alloy (ZDC) ●Finish Matte Chromate
18	2 pcs	250-014-969 Item Name LM-80GB	Hanging Bracket		●Material Aluminium Alloy ●Finish Plain

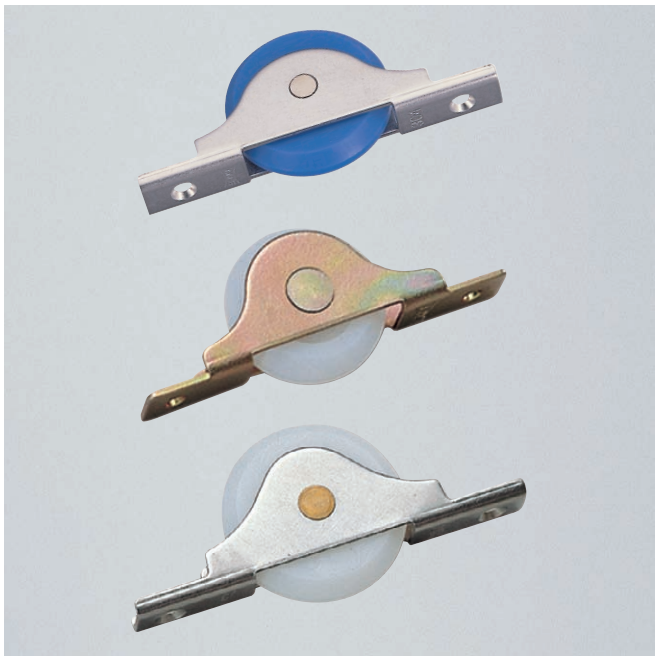
Optional Parts

No.	Item Code	Part Name	Dimensions	Description
19	280-189-066 Item Name 162-811	Door Stopper		●Material Zinc Alloy (ZDC) / Rubber ●Finish Statin Chrome (Including Countersunk Head Wood Screw 4.1 x 32 3 pcs)
20	250-120-817 Item Name 57-3039-250	Bracket Cover		●Material Aluminium Alloy ●Finish Anodized Silver
21	250-120-799 Item Name 57-3061-071	End Cap Set		●Material Polyacetal (POM) ●Colour Black / Light Grey

SLIDING DOOR ROLLER

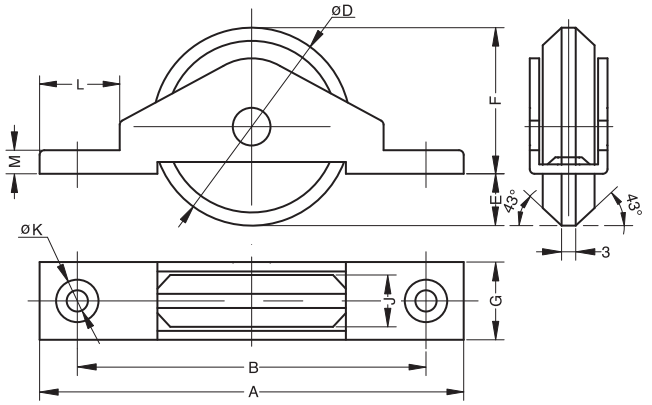
STAINLESS 304 STEEL

FDS, FES, FMS



Features

- Smooth and quiet movement with plastic rollers.
- FES and FMS are equipped with ball bearings providing easy operating even with heavy load.

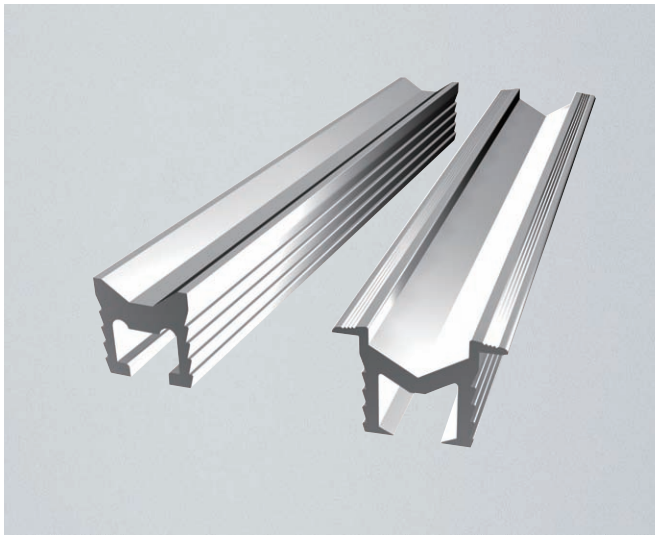


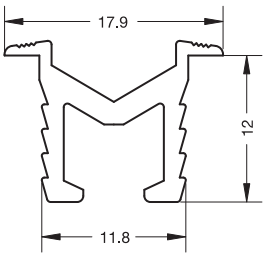
Part Name	Series	Material	Finish
Bracket, Pin	FDS, FES, FMS	304 Stainless Steel	Plain
Wheel	FDS, FES	Polyacwetal	White
	FMS	MC Nylon	Blue

Item Code	Item Name	A	B	D	E	F	G	J	K	L	M	Load Capacity/2 pcs	Weight	Box	Carton
200-139-150	FDS-0259	60	50	25	5	20	11	7	3	10	1.2	15 kg	15 g	20 pcs	200 pcs
200-139-151	FDS-0339	74	63	33	5.5	27.5	13	8	4	12	1.5	25 kg	25 g	12 pcs	120 pcs
200-139-152	FES-0339	68	57	33	7	26	13	9	4	14	5	50 kg	35 g		
200-139-153	FES-0429	92	76	42	6	36	14	9	4	18	5	70 kg	60 g	4 pcs	40 pcs
200-139-154	FMS-0509	110	85	50	8	42	17	11	5	19	5	100 kg	95 g		

BOTTOM RAIL FOR FDS, FES, FMS

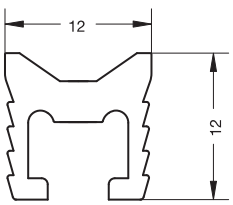
AV





AVED-12S/1820

Applicable Rollers:
FDS-0259, FDS-0339
FES-0339, FES-0429



AVF-12S/1820

Applicable Rollers:
FDS-0259, FDS-0339
FES-0339, FES-0429
FMS-0509

Item Code	Item Name	Length	Weight	Box	Carton
250-129-781	AVF-12S/1820	1820	256 g	1 pc	10 pcs
250-129-780	AVED-12S/1820		309 g		

Material	Finish
Aluminium	Anodized

STACKABLE PARTITION DOOR SYSTEM FDP40



Re-model at will

Create a versatile room with movable partitions.





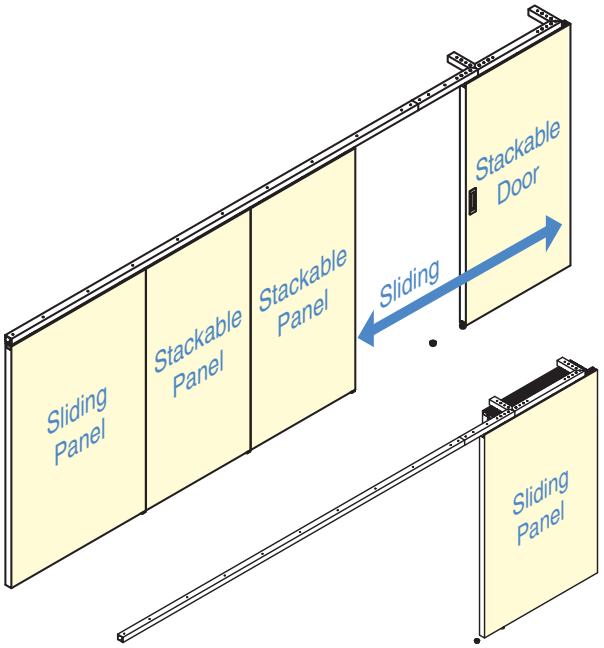
From Terrace Musashino Nakacho Model Room
(Kajima Corporation)

Video Link

	Parallel Stacking (P.700-701)	Perpendicular Stacking (P.702-703)
Door Weight	Max. 40 kg/Door	
Door Thickness	34 - 40 mm	
Door Width	Stackable Door : 700 - 1000 mm Sliding Panel : 700 - 1300 mm	Swing Door : Max. 900 mm Stackable Panel : 700 - 900 mm
Door Height	Max. 2500 mm	
Specification	☐ For 3 - 4 Panels	

STACKABLE PARTITION DOOR SYSTEM

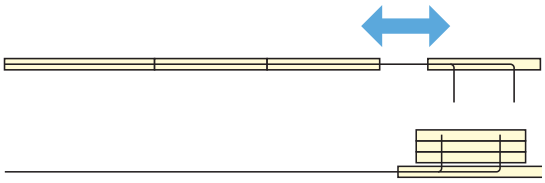
FDP40P



	Parallel Stacking
Roller	Recessed Mount
Door Weight	Max. 40 kg/Door
Door Thickness	34 - 40 mm
Door Width	700 - 1000 mm (Stackable Door)
	700 - 1300 mm (Sliding Panel)
Door Height	Max. 2500 mm

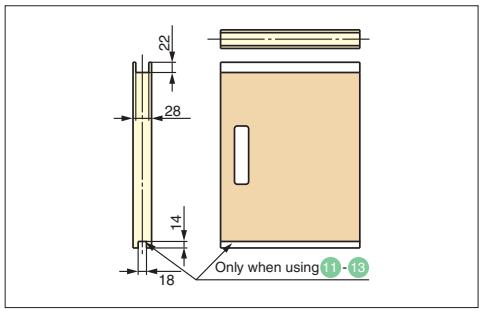
■Features

- Parallel stacking partition door system.
- Easy door installation - Simply hang the door onto the rollers.
- No bottom rail for clean appearance.

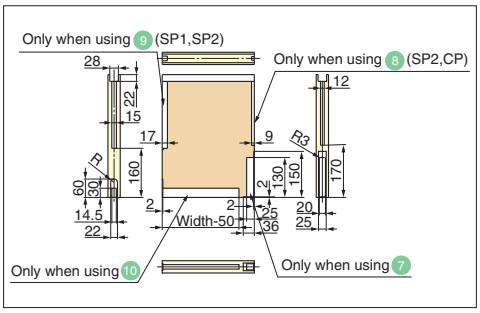


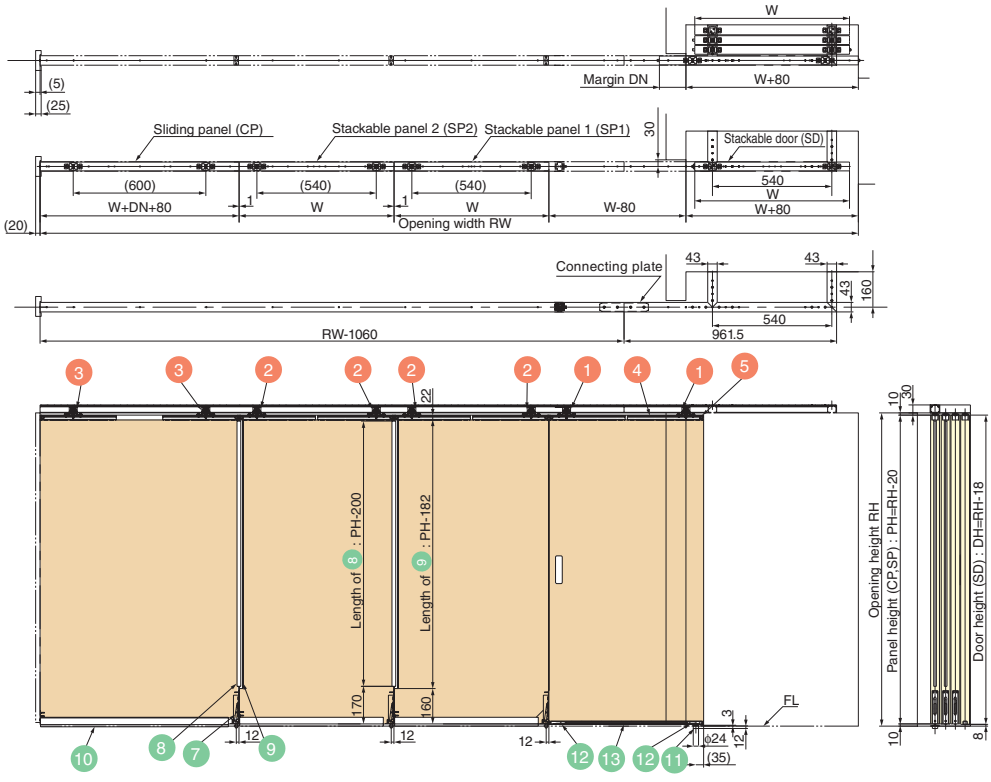
■Door Preparation

Stackable Door (SD)



Stackable Panel (SP) / Sliding Panel (CP)





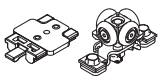
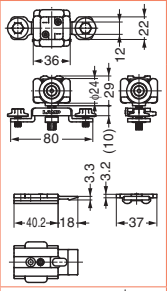
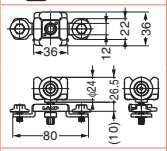
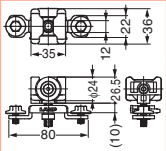
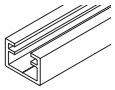
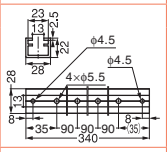
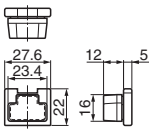
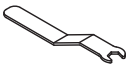
Parts Set

Necessary Parts

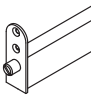
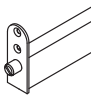
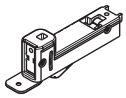
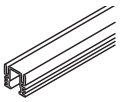
Please refer to "Qty [a] - [b]" for parts included in each set.

	Item Code	Item Name	Description
[a]	250-024-540	FDP40P3P	3 Doors
[b]	250-024-541	FDP40P4P	4 Doors

Parts Included

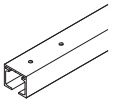
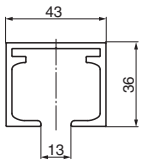
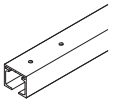
No.	Qty [a]	Qty [b]	Part Name	Dimensions	Description
1	1 set	1 set	Recessed Roller For Stackable Door (SD) 		Item Code : 250-024-501 Item Name : FDP40P-QRF-ST ●Material Zinc Alloy / Polyacetal ●Finish Nickel / Natural
2	1 set	2 sets	Recessed Roller For Stackable Panel (SP) 		Item Code : 250-024-502 Item Name : FDP40P-QRF ●Material Zinc Alloy / Polyacetal ●Finish Nickel / Natural
3	1 set	1 set	Recessed Roller For Sliding Panel (CP) 		Item Code : 250-024-503 Item Name : FDP40P-QRL ●Material Zinc Alloy / Polyacetal ●Finish Nickel / Natural
4	3 sets	4 sets	Hanging Bracket 		Item Code : 250-024-505 Item Name : FDP40-DTR340 ●Material Aluminium ●Finish Anodized Silver
5	6 pcs	8 pcs	End Cap 		Item Code : 250-121-142 Item Name : FD-70B-EC ●Material Elastomer (TPE) ●Finish Black
6	1 pc	1 pc	Spanner For Adjustment 	–	Item Code : 250-024-506 Item Name : FDP40-SP10 ●Material Steel ●Finish Nickel / Natural

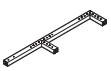
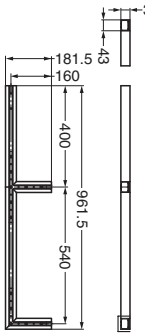
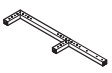
Optional Parts

No.	Item Code	Part Name	Dimensions	Description
7	250-024-525 FDP40-DBL150HL	Flush Bolt 	–	●Material SUS304 ●Finish Satin
8	250-024-526 FDP40-DSP2500BL	Gasket 	–	●Material Rubber (CR) ●Finish Black
9	250-024-527 FDP40-DSPU2500BL	Counter Part For Gasket 	–	●Material ABS ●Finish Black
10	250-024-528 FDP40-DBT800	Door Bottom Tightener (W: 800 mm) 	–	●Material Aluminium ●Finish Anodized Silver
	250-024-529 FDP40-DBT1000	Door Bottom Tightener (W: 1000 mm) 	–	●Material Aluminium ●Finish Anodized Silver
11	250-029-828 FD30-MGFP-LGR	Magnetic Floor Guide 	–	●Material Steel / ABS ●Finish Light Grey
	250-029-830 FD30-MGFP-DBR	Magnetic Floor Guide 	–	●Material Steel / ABS ●Finish Dark Brown
12	250-026-500 FD30-MGDB	Counter Plate For Magnetic Floor Guide 	–	●Material Neodymium / Polyamide ●Finish Nickel / Brown
13	250-026-501 FD30-MGDR1000	Guide Track For 11 12 	–	●Material ABS ●Finish Natural

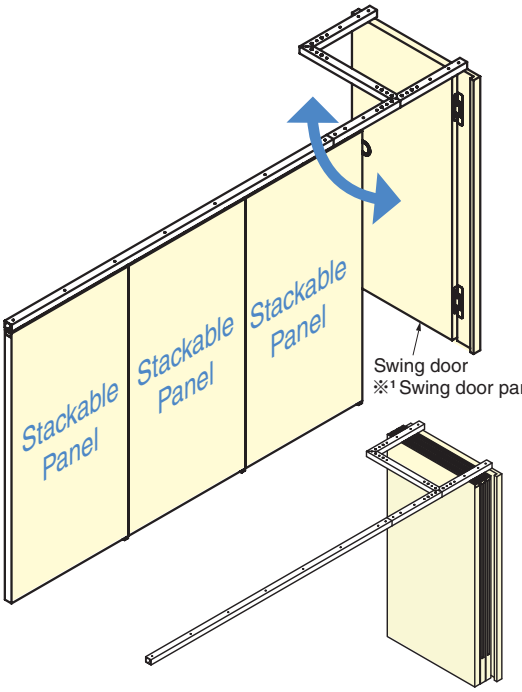
Upper Track

Necessary Parts

Item Code	Part Name	Dimensions	Description
250-024-507 FDP40-TRM3000SL	Upper Track (3000 mm) 		●Material Aluminium ●Finish Anodized Silver
250-024-508 FDP40-TRM4000SL	Upper Track (4000 mm) 		●Material Aluminium ●Finish Anodized Silver

Item Code	Part Name	Dimensions	Description
250-024-513 FDP40P-TRMSL-SL	Upper Track For Stacking Area (Left) 	 ※Above shows left type.	●Material Aluminium ●Finish Anodized Silver
250-024-514 FDP40P-TRMSR-SL	Upper Track For Stacking Area (Right) 		●Material Aluminium ●Finish Anodized Silver

STACKABLE PARTITION DOOR SYSTEM FDP40V

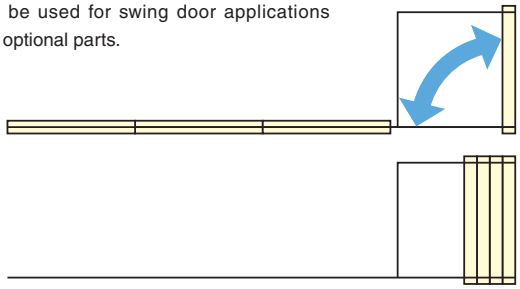


※1 Swing door parts are optional.

	Perpendicular Stacking
Roller	Recessed Mount
Door Weight	Max. 40 kg/Door
Door Thickness	34 - 40 mm
Door Width	Max. 900 mm (Swing Door)
	700 - 900 mm (Stackable Panel)
Door Height	Max. 2500 mm

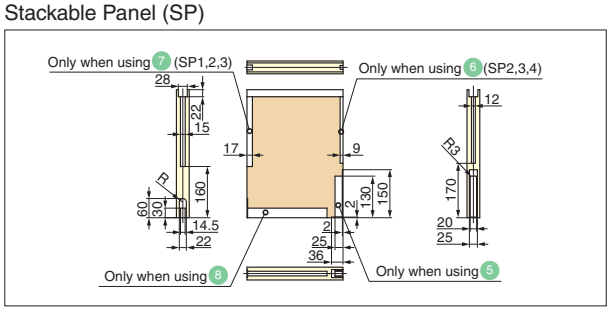
■Features

- Perpendicular stacking partition door system.
- Easy door installation - Simply hang the door onto the rollers.
- No bottom rail for clean appearance.
- Can be used for swing door applications with optional parts.

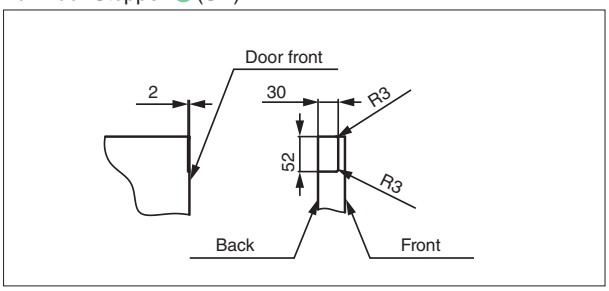


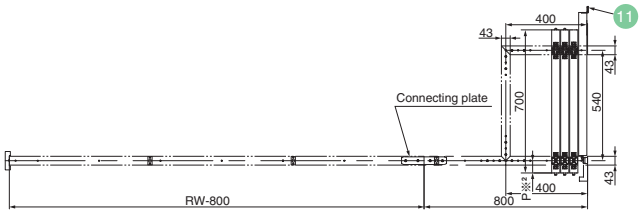
■Door Preparation

Stackable Panel (SP)

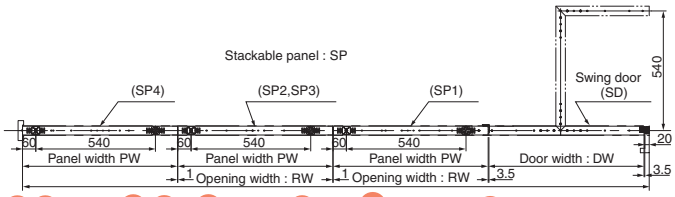


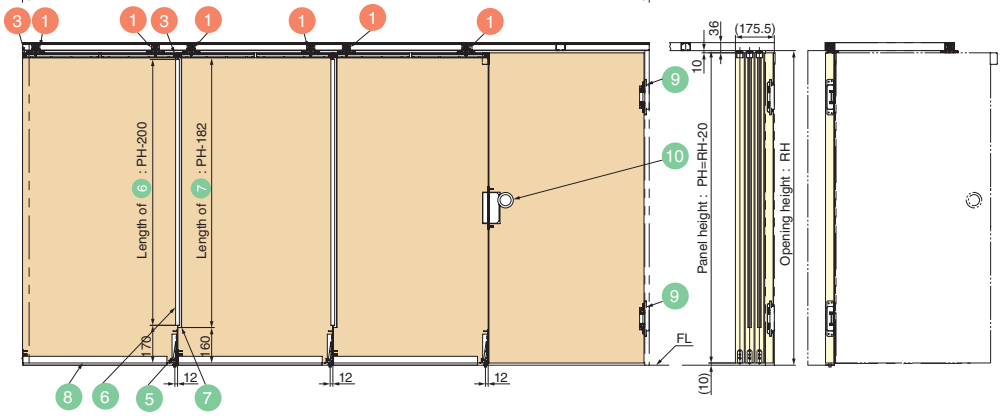
For Door Stopper 11 (SD)





※2
If panel width PW ≤ 780, P = 60.
If 780 < panel width PW ≤ 900,
P ≥ panel width PW − 720.





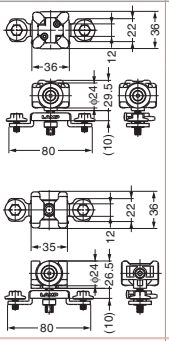
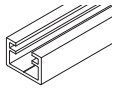
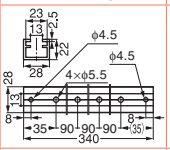
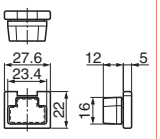
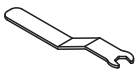
Parts Set

Necessary Parts

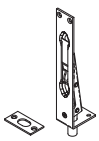
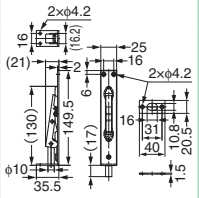
Please refer to "Qty [a] - [b]" for parts included in each set.

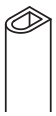
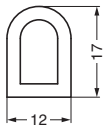
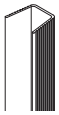
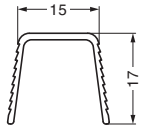
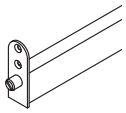
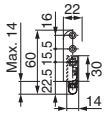
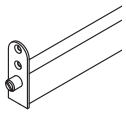
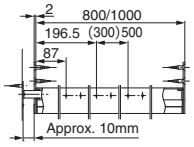
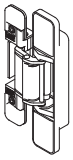
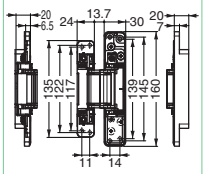
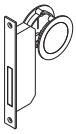
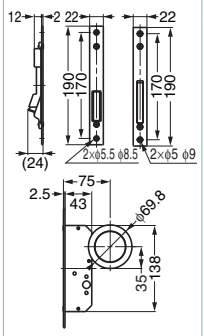
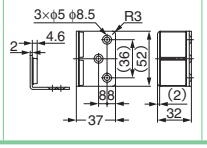
	Item Code	Item Name	Description
a	250-024-542	FDP40V3P	3 Doors
b	250-024-543	FDP40V4P	4 Doors

Parts Included

No.	Qty a	Qty b	Part Name	Dimensions	Description
1	3 sets	4 sets	Recessed Roller For Stackable Panel (SP) 		Item Code : 250-024-504 Item Name : FDP40V-QR ●Material Zinc Alloy / Polyacetal ●Finish Nickel / Natural
2	3 sets	4 sets	Hanging Bracket 		Item Code : 250-024-505 Item Name : FDP40-DTR340 ●Material Aluminium ●Finish Anodized Silver
3	6 pcs	8 pcs	End Cap 		Item Code : 250-121-142 Item Name : FD-70B-EC ●Material Elastomer (TPE) ●Finish Black
4	1 pc	1 pc	Spanner For Adjustment 	–	Item Code : 250-024-506 Item Name : FDP40-SP10 ●Material Steel ●Finish Nickel / Natural

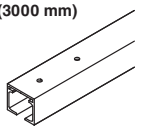
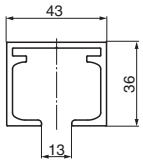
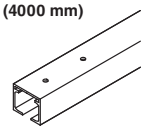
Optional Parts

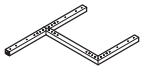
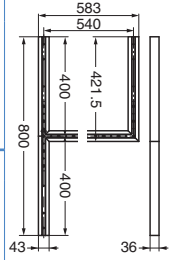
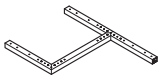
No.	Item Code	Part Name	Dimensions	Description
5	250-024-525 FDP40-DBL150HL	Flush Bolt 		●Material SUS304 ●Finish Satin

No.	Item Code	Part Name	Dimensions	Description
6	250-024-526 FDP40-DSP2500BL	Gasket 		●Material Rubber (CR) ●Finish Black
7	250-024-527 FDP40-DSPU2500BL	Counter Part For Gasket 		●Material ABS ●Finish Black
8	250-024-528 FDP40-DBT800	Door Bottom Tightener (W: 800mm) 		●Material Aluminium ●Finish Anodized Silver
	250-024-529 FDP40-DBT1000	Door Bottom Tightener (W: 1000mm) 		●Material Aluminium ●Finish Anodized Silver
9	170-020-804 HES3D-V135LGR	Hinge 		●Material Steel / Polyacetal ●Finish Nickel / Light Grey
10	250-024-534 MLH	Magnetic Latch Handle 		●Material Zinc Alloy / Stainless Steel ●Finish Satin Nickel
11	250-024-535 FDP40V-DSTS	Door Stopper 		●Material Stainless Steel / Plastic (PUR) ●Finish Polished

Upper Track

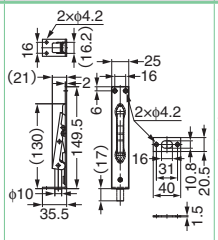
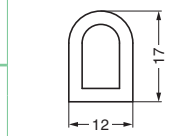
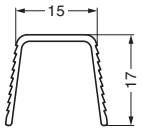
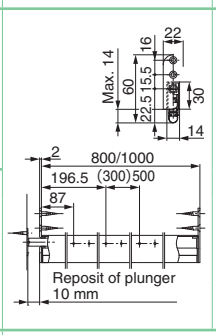
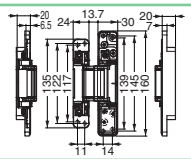
Necessary Parts

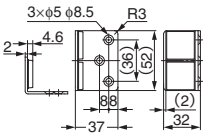
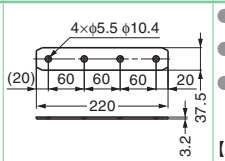
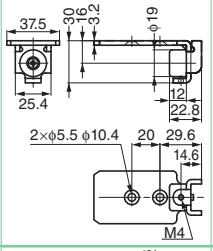
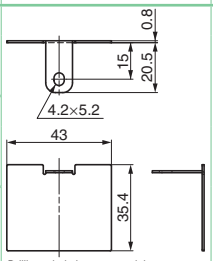
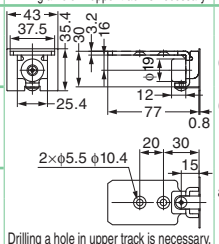
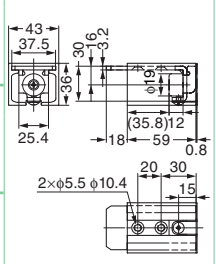
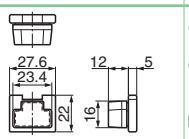
Item Code	Part Name	Dimensions	Description
250-024-507 FDP40-TRM3000SL	Upper Track (3000 mm) 		●Material Aluminium ●Finish Anodized Silver
250-024-508 FDP40-TRM4000SL	Upper Track (4000 mm) 		●Material Aluminium ●Finish Anodized Silver

Item Code	Part Name	Dimensions	Description
250-024-519 FDP40V-TRMSL-SL	Upper Track For Stacking Area (Left) 		●Material Aluminium ●Finish Anodized Silver
250-024-520 FDP40V-TRMSR-SL	Upper Track For Stacking Area (Right) 	※Above shows right type.	●Material Aluminium ●Finish Anodized Silver

OPTIONAL PARTS FOR FDP40

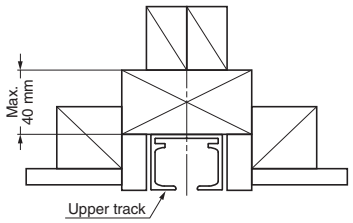
Optional Parts

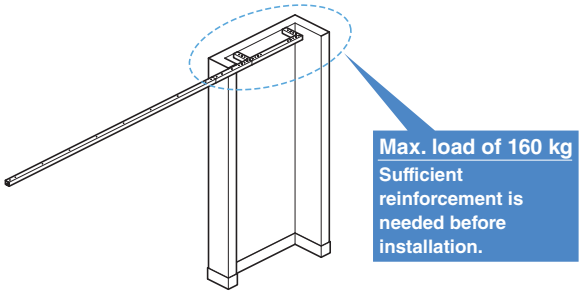
No.	Item Code	Part Name		Dimensions	Description
1	250-024-525 FDP40-DBL150HL	Flush Bolt		 Please refer to P.700-703 for cut out demensions.	●Material Stainless Steel ●Finish Satin 【Application】Used for fixing panel to the floor. Parts Included ・Strike ・Countersunk Screw 3.1×20 4 pcs ・Countersunk Screw 2.7×20 2 pcs
2	250-024-526 FDP40-DSP2500BL	Gasket	Black		●Material Black： Chloroprene Rubber (CR) White： Ethylene Propylene Rubber (EPDM) 【Application】Concealed gasket used for gaps between panels.
3	250-025-596 FDP40-DSP2500WT		White		
4	250-024-527 FDP40-DSPU2500BL	Counter Part for Gasket (2500 mm)	Black		●Material ABS 【Application】Track for gasket
5	250-025-593 FDP40-DSPU2500WT		White		
6	250-024-528 FDP40-DBT800	Door Bottom Tightener	For Door Thickness : 600～800 mm		●Material Aluminium Alloy / Elastomer ●Finish Anodized Silver / Black ●Screw Countersunk Head Tapping Screw 3.5×20 4 pcs、3.1×16 2 pcs 【Application】Used for filling gap between panels and the floor.
7	250-024-529 FDP40-DBT1000		For Door Thickness : 800～1000 mm		
8	250-029-828 FD30-MGFP-LGR	Bottom Guide Pin	Light Grey	Please refer to P.706-707 for further information.	
9	250-029-829 FD30-MGFP-LBR		Light Brown		
10	250-029-830 FD30-MGFP-DBR		Dark Brown		
11	250-026-500 FD30-MGDB	Counter Plate for Magnetic Floor Guide			
12	250-026-501 FD30-MGDR1000	Bottom Guide Track (1000 mm)			
13	250-022-252 FD80-HHSP	Spanner for Adjustment		–	●Material Steel ●Finish Chromate 【Application】Tool for adjustment of bottom rails direction.
14	170-020-804 HES3D-V135LGR	3-way Adjustable Concealed Hinge			●Material Steel / Polyacetal / Aluminium / Zinc Alloy ●Finish Nickel / Light Grey / Anodized

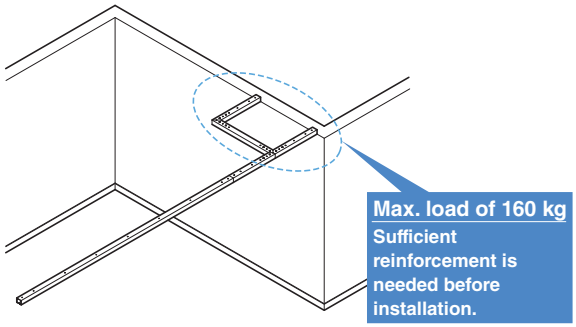
No.	Item Code	Part Name		Dimensions	Description
15	260-024-534 MLH-SN	Magnetic Latch Handle		Please refer to (P.703) for further information.	
16	250-024-535 FDP40V-DTST	Door Stopper			●Material Stainless Steel / Polyurethane (PUR) ●Finish Mirror / Clear Screws for Installation Included 【Application】Door stopper for swing door.
17	250-025-761 FDP40-TRMS-CP	Rail Connecting Bar			●Material Steel (SPCC) ●Finish Clear Zinc Chromate ●Screw Countersunk Head Tapping Screw 4×40 4 pcs 【Application】Use for connecting rails.
18	250-029-719 FDP40-STP	Stopper			●Material Steel (SPCC) / SBR ●Finish Clear Zinc Chromate / Black 【Application】Used for stopper in upper rail.
19	250-029-723 FDP40-TREP-SL	End Plate	Silver		●Material Steel (SECC) ●Finish Acrylic Resin 【Application】Cover for recessed track. Remarks: Stopper needed separately.
20	250-029-724 FDP40-TREP-UM		Umber		
21	250-029-725 FDP40-TREP-WT		White		
22	250-029-776 FDP40-ESTP-SL	End Stopper for Upper Track	Silver		●Parts Included Stopper+End Plate ●Screw Binding Head Screw M4×5 【Application】Used at the end of rails.
23	250-029-777 FDP40-ESTP-UM		Umber		
24	250-029-778 FDP40-ESTP-WT		White		
25	250-029-773 FDP40P-ESTP-SL	End Stopper for Parallel Stacking	Silver		●Parts Included Stopper+End Cap +Upper Track (60 mm) ●Screw Binding Head Screw M4×5 【Application】Connect with rails for stacking rails.
26	250-029-774 FDP40P-ESTP-UM		Umber		
27	250-029-775 FDP40P-ESTP-WT		White		
28	250-024-897 FD70B-EC-WT	End Cap for Hanging Bracket			●Material Elastomer (TPE) ●Colour White 【Application】Cap for hanging bracket

FDP STACKABLE PARTITION DOOR SYSTEM CHECK POINTS FOR INSTALLATION

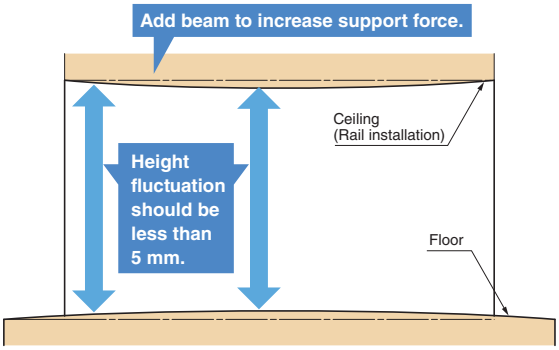
①Make sure that the ceiling is strong enough to support a load of 160 kg (in the stacking part of the rail).



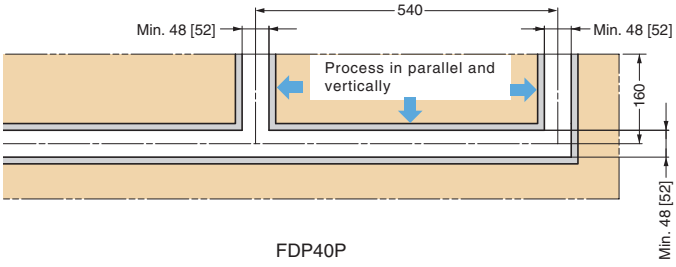




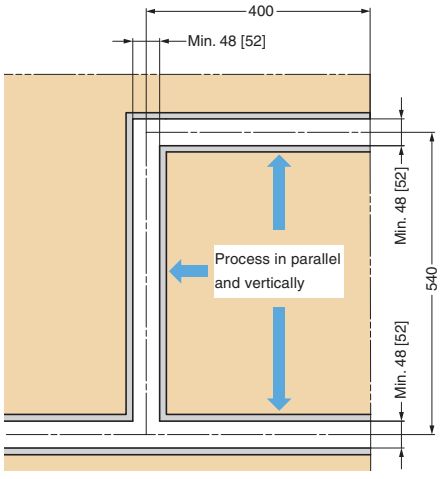
②Check the ceiling for sag and floor for wrap.



③Process when recessing the rail.

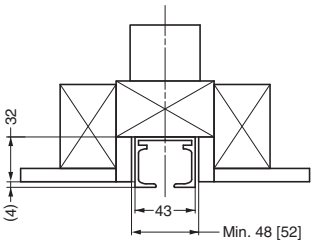


FDP40P



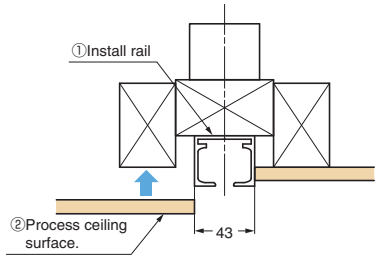
FDP40V

Dimension in [ ] denoted when cloth is added.



When processing without gap between ceiling face and rail

- At first, install the rail to reinforcement material behind the ceiling.
- Then, fix the ceiling face to meet rail mount dimensions.



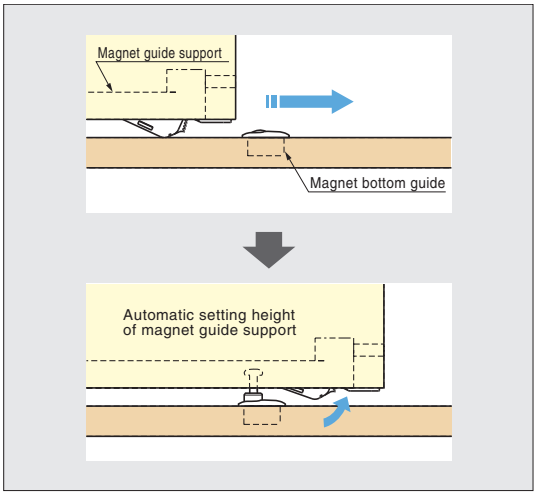
MAGNET BOTTOM GUIDE

STEEL **FD30-MG**





Door Weight	Max. 40 kg/Door
Door Thickness	Min. 30 mm
Door Width	590 - 1000 mm
Door Height	Max. 2500 mm
Thickness of Wooden Floor	Min. 12 mm

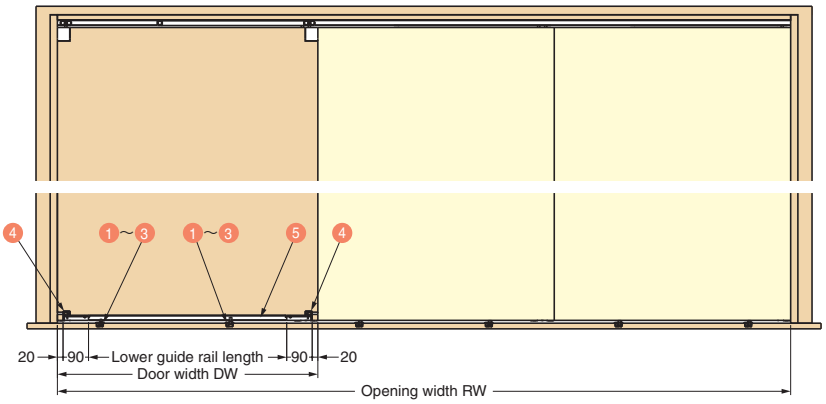


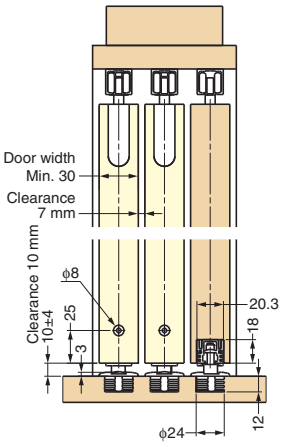
■Features

- Guide pin pops up only under the door.
- Clean appearance unlike the ordinary door tracks.
- Automatic adjustment function to optimize the height of magnetic guide support.

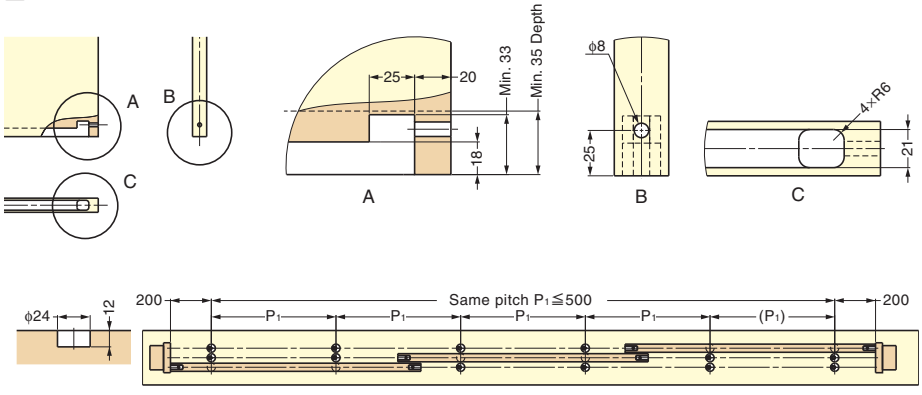
■Installation

Video Link

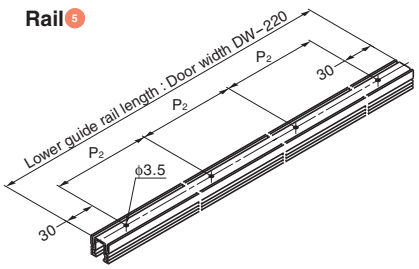




■Installation Procedure



■Processing Holes of Lower Guide Rail 5



Pitch : P2≦300
* Included screws; Pan head tapping screws 3×16 4 pcs

- Provide screw holes, with the pitch less than 300 mm
- At 30 mm from both ends of rail, provide 3.5 mm dia. Hole with drill

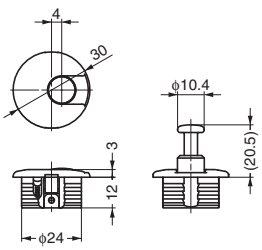
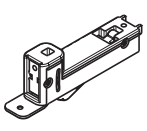
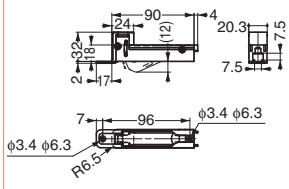
Parts Set

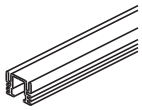
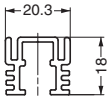
Necessary Parts

Please refer to "Qty [a] - [r]" for parts included in each set.

	Types of Door Application	Item Code	Item Name	1~3 Lower Guide Pin	4 Magnet Guide Support	5 Lower Guide Rail	6 Spanner
[a]	Single Sliding Door	250-028-800	FD30-MG1HKP-LGR	4 pcs (Light Grey)	1 set	1 pc	1 pc
[b]		250-028-801	FD30-MG1HKP-LBR	4 pcs (Light Brown)			
[c]		250-028-802	FD30-MG1HKP-DBR	4 pcs (Dark Brown)			
[d]	Double Sliding Door	250-027-156	FD30-MG2HCP-LGR	8 pcs (Light Grey)	2 sets	2 pcs	1 pc
[e]		250-027-157	FD30-MG2HCP-LBR	8 pcs (Light Brown)			
[f]		250-027-158	FD30-MG2HCP-DBR	8 pcs (Dark Brown)			
[g]	2-Door Sliding	250-027-159	FD30-MG2HKP-LGR	10 pcs (Light Grey)	2 sets	2 pcs	1 pc
[h]		250-027-160	FD30-MG2HKP-LBR	10 pcs (Light Brown)			
[i]		250-027-161	FD30-MG2HKP-DBR	10 pcs (Dark Brown)			
[j]	Triple Sliding Door	250-027-162	FD30-MG3HCP-LGR	18 pcs (Light Grey)	3 sets	3 pcs	1 pc
[k]		250-027-163	FD30-MG3HCP-LBR	18 pcs (Light Brown)			
[l]		250-027-164	FD30-MG3HCP-DBR	18 pcs (Dark Brown)			
[m]	3-Door Sliding	250-027-165	FD30-MG3HKP-LGR	18 pcs (Light Grey)	3 sets	3 pcs	1 pc
[n]		250-027-166	FD30-MG3HKP-LBR	18 pcs (Light Brown)			
[o]		250-027-167	FD30-MG3HKP-DBR	18 pcs (Dark Brown)			
[p]	4-Door Sliding	250-027-168	FD30-MG4HWP-LGR	16 pcs (Light Grey)	4 sets	4 pcs	1 pc
[q]		250-027-169	FD30-MG4HWP-LBR	16 pcs (Light Brown)			
[r]		250-027-170	FD30-MG4HWP-DBR	16 pcs (Dark Brown)			

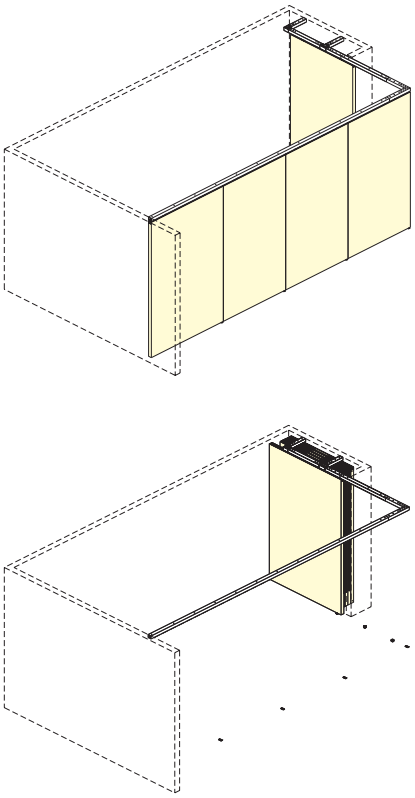
Parts Included

No.	Part Name	Dimensions	Description
1	Lower Guide Pin	 	**Item Code : 250-029-828** **Item Name : FD30-MGFP-LGR** ●Material Polyacetal (POM) / Steel / Zinc Alloy (ZDC) ●Finish Chrome / Nickel ●Colour Light Grey ●Screw Pan Head Tapping Screw 3×14 2 pcs
2			**Item Code : 250-029-829** **Item Name : FD30-MGFP-LBR** ●Material Polyacetal (POM) / Steel / Zinc Alloy (ZDC) ●Finish Chrome / Nickel ●Colour Light Brown ●Screw Pan Head Tapping Screw 3×14 2 pcs
3			**Item Code : 250-029-830** **Item Name : FD30-MGFP-DBR** ●Material Polyacetal (POM) / Steel / Zinc Alloy (ZDC) ●Finish Chrome / Nickel ●Colour Dark Brown ●Screw Pan Head Tapping Screw 3×14 2 pcs
4	Magnet Guide Support	 	**Item Code : 250-026-500** **Item Name : FD30-MGDB** ●Material Polyacetal (POM) / Neodym ●Finish Grey / Nickel ●Screw Countersunk Head Tapping Screw 3×12 2 pcs

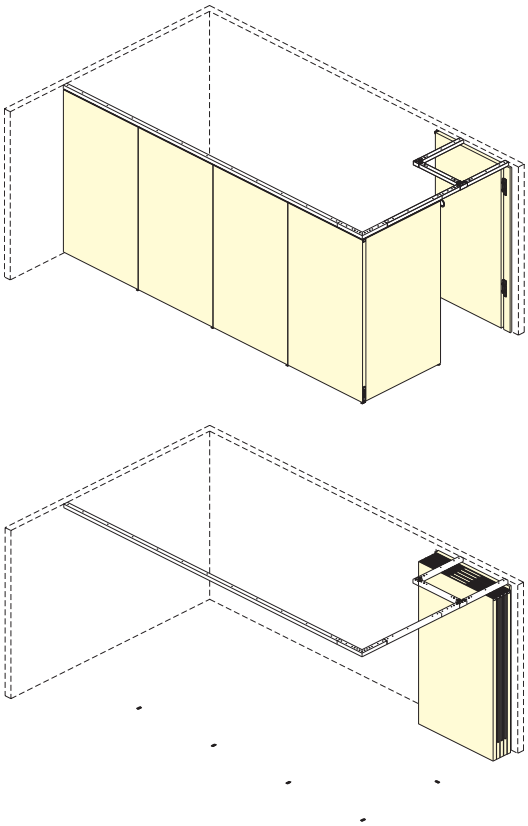
No.	Part Name	Dimensions	Description
5	Lower Guide Rail (1000 mm) 		**Item Code : 250-026-501** **Item Name : FD30-MGDR1000** ●Material ABS ●Colour Grey ●Screw Pan Head Tapping Screw 3×16 4 pcs
6	Spanner 	—	**Item Code : 250-022-252** **Item Name : FD80-HHSP** ●Material Steel ●Finish Chromate

NEW STACKABLE PARTITION DOOR SYSTEM DIGEST FDP40L

■Parallel Stacking Type FDP40LP



■Perpendicular Stacking Type FDP40LV

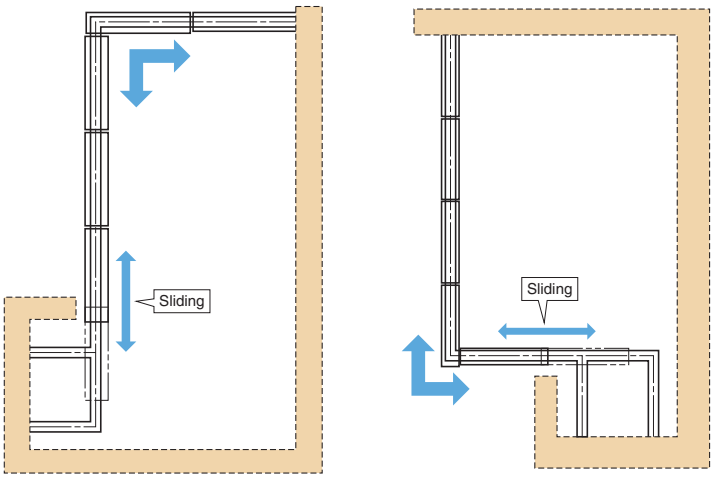


	Parallel Stacking	Perpendicular Stacking
Door Width	Stackable Panel: 700 ～ 1000 mm	Swing Door: Max. 900 mm Stackable Panel: 700 ～ 900 mm
Door Height	Max. 2500 mm	
Door Thickness	34 ～ 40 mm	
Door Weight	Max. 40 kg/Panel	
Door	3 ～ 6 Doors	

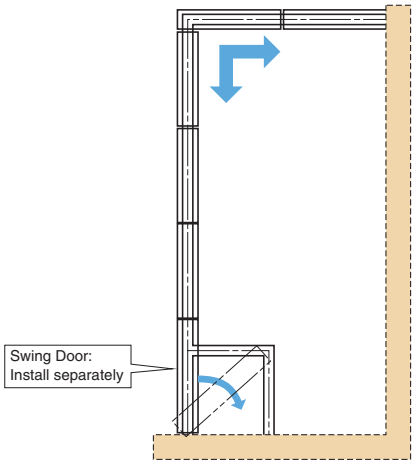
■Features

- The corner parts and the new type of rail make possible to create an L-shaped partition of space.
- Smooth movement with Quad Core Roller.
- Panels are stackable in minimal space.

【1】FDP40LP Corner + Parallel Stacking



【2】FDP40LV Corner + Perpendicular Stacking



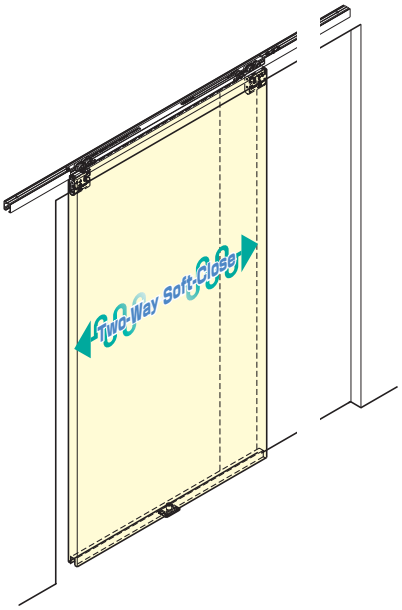
NEW SLIDING DOOR SYSTEM DIGEST FD35EV



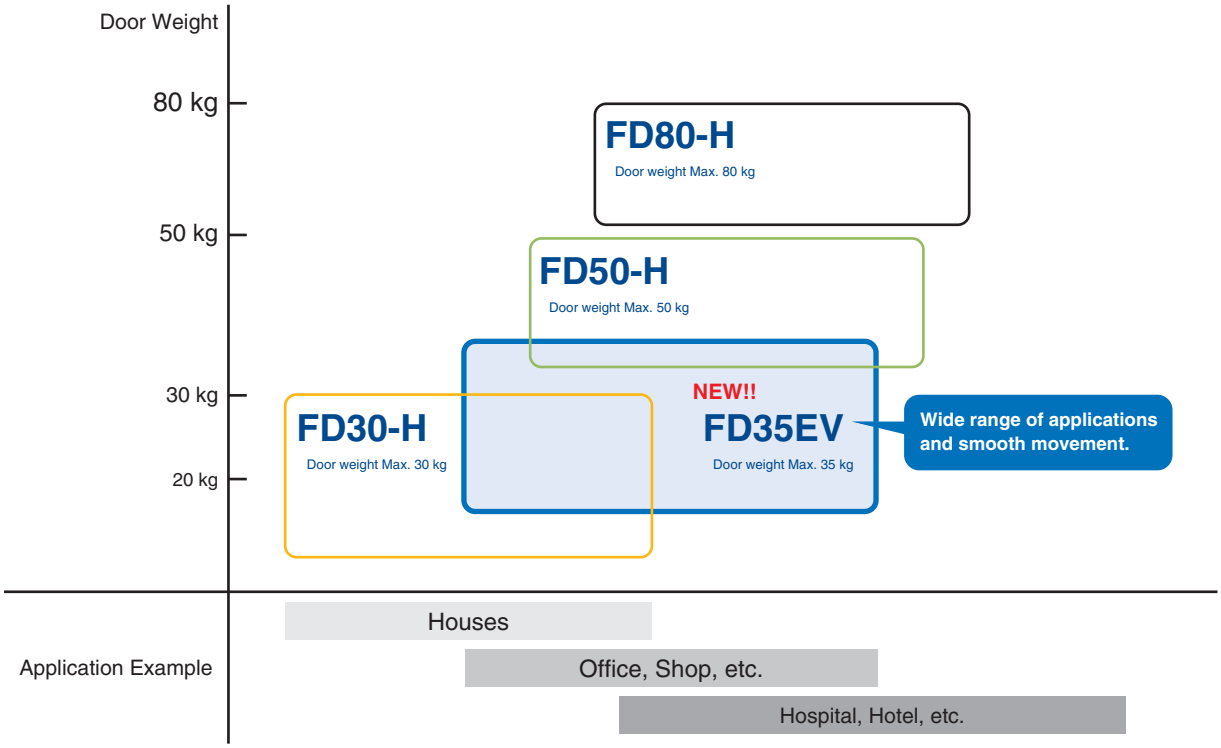
	Two-Way Soft-Close	One-Way Soft-Close	Standard Sliding
Door Weight	Max. 35 kg/Door		
Door Thickness	Min. 24 mm		
Door Width	590 - 1200 mm	520 - 1200 mm	Max. 1200 mm
Door Height	Max. 2400 mm		
Door	1 or 2 doors		

■Features

- Suitable for places where wide opening are needed (hotels, hospitals, nursing homes, etc.).
- Easy installation with fixed trigger.
- Damper equipped for soft & slient closing at the end.
- Thin profile allows flexible design on various applications.



■Chart of FD Series



ALUMINIUM FRAME SWING DOOR

STEEL **AF-25D**



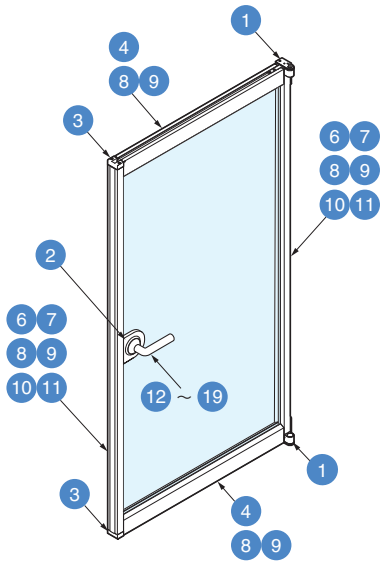
Door Weight	Max. 40 kg (including parts weight)
Glass Thickness	5, 6 mm
Door Width	Max. 900 mm (Max. 1000 mm for using intermediate support)
Door Height	Max. 2200 mm (Max. 3000 mm for using intermediate support)

■Features

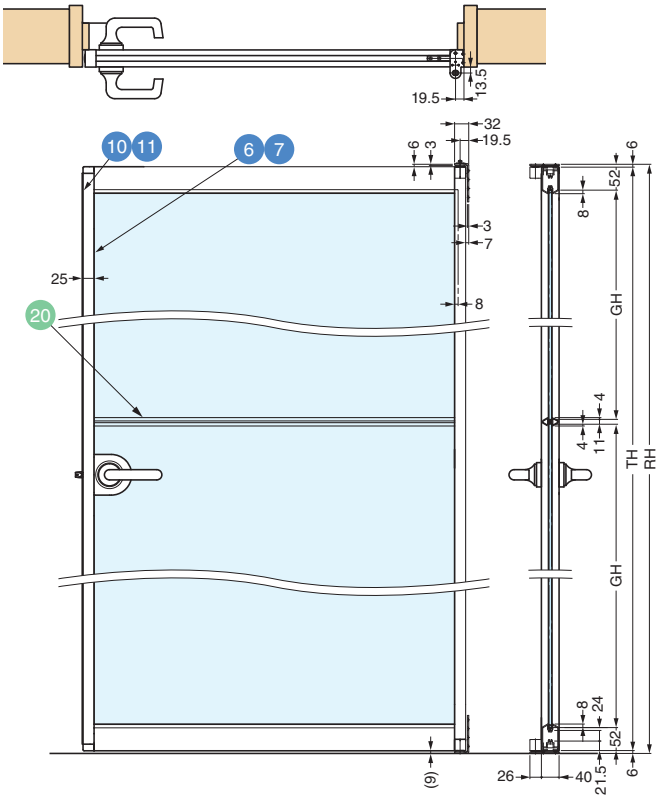
- Aluminium profile provides excellent rigidity preventing door flex.
- FD80-AF (Sliding door version) is available (P.688).
- Vertically and laterally adjustable even after door installation.

■Remarks

- Intermediate support not needed when door size is within H2200 mm x W900 mm. Please refer to below "necessary intermediate support quantity".
- Please use stopper parts & door stopper.



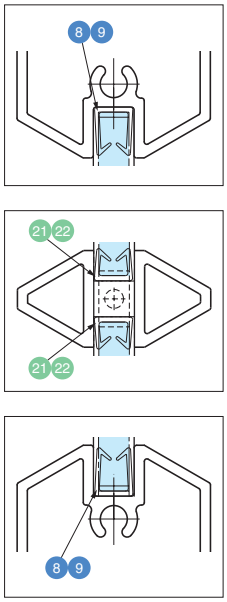
■Installation (Glass door with one intermediate support)



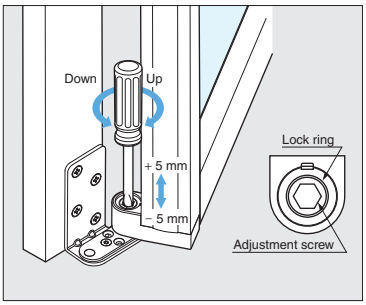
■Necessary Intermediate Support Quantity

Intermediate support required when either door height or door width exceeds standard size. Pictures shown below are door size examples which require intermediate support. Glass thickness : 5 mm, Door weight : 70 kg

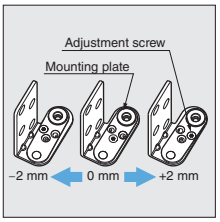
Support Qty.	No Need Any Support	2 Supports	3 Supports	4 Supports
Door Size	W900×H2200	Less than W800×H2500	Less than W750×H2700	Less than W700×H3000



■Vertical Adjustment

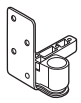
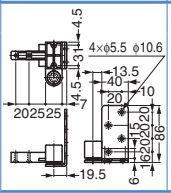
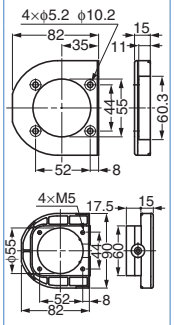
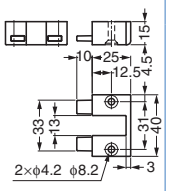
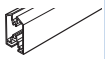
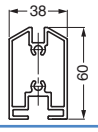
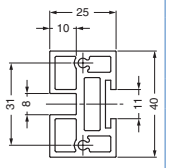
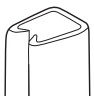
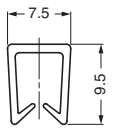
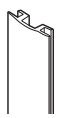
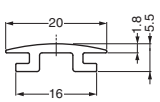


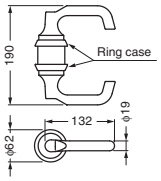
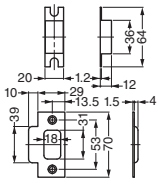
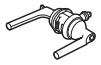
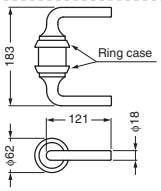
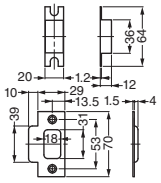
■Horizontal Adjustment



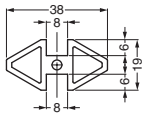
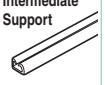
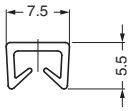
Part Details

Necessary Parts

No.	Part Name	Item Code	Type	Qty. Per One Door	Dimensions	Description
1	Pivot Hinge 	170-121-109 AF-25-P10	Non-Handed	1 set		●Material Zinc Alloy / SUS304 ●Finish Matt Chrome / Plain
2	Handle Case 	260-120-076 AF-25-P06	—	1 set		●Material Zinc Alloy ●Finish Nickel Matt Silver (Cover)
3	Connector 	250-120-056 AF-25-P04	—	2 pcs		●Material Zinc Alloy ●Finish Matt Chrome
4	Horizontal Frame 	250-120-070 AF-25-W02		1 pc		●Material Aluminium Alloy ●Finish Matt Silver
5	Screws Set 	250-181-198 AF-25-DS	—	1 set	M6×30 Hex. Bolt : 8 pcs M4×30 Hex. Bolt (For Intermediate Support) : 6 pcs M4×25 Allen Screw : 12 pcs M5×30 Countersunk Head Tapping Screw : 8 pcs	●Material Stainless Steel ●Finish Plain
6 7	Vertical Frame 	250-940-965 AF-25-W01-2.5M 250-121-116 AF-25-W01-3M	2500 mm 3000 mm	2 pcs		●Material Aluminium Alloy ●Finish Matt Silver
8 9	Gasket 	250-940-960 AF-25-P02 250-181-197 AF-25-P15	Glass Thickness 5 mm 2500 mm Glass Thickness 6 mm 3000 mm	Please order necessary qty. based on your door size.		●Material Elastomer (TPE) ●Finish Light Grey
10 11	Cover 	270-940-959 AF-25-P01-25 270-942-846 AF-25-P01-30	2500 mm 3000 mm	2 pcs		●Material Elastomer (TPE) ●Finish Light Grey

No.	Part Name	Item Code	Type	Qty. Per One Door	Dimensions	Description
12	Lever Handle A 	260-170-381 HCSA138F11	Passage	1 set		●Material Aluminium ●Finish Anodized / Satin (Strike) ●Material Steel / Polyamide ●Finish Plain / Black ●Parts Included ●Screw : Countersunk Head Tapping Screw 4×30 2 pcs
13	Passage Type is Shown.	260-170-382 HCSA138SF11G	Cylinder Lock & Thumbturn		HCSA138SF11G/11H/11M Typs is Shown.	
14		260-170-383 HCSA138SF11H	Indicator & Thumbturn			
15		260-170-384 HCSA138SF11M	Privacy & Thumbturn			
16	Lever Handle C 	260-170-389 HCSA197F11	Passage	1 set		●Material Aluminium ●Finish Anodized / Satin (Strike) ●Material Steel / Polyamide ●Finish Plain / Black ●Parts Included ●Screw : Countersunk Head Tapping Screw 4×30 2 pcs
17	HCSA138SF11G/11H/11M Typs is Shown.	260-170-390 HCSA197SF11G	Cylinder Lock & Thumbturn		Passage Type is Shown.	
18		260-170-391 HCSA197SF11H	Indicator & Thumbturn			
19		260-170-392 HCSA197SF11M	Privacy & Thumbturn			

Optional Parts

No.	Part Name	Item Code	Type	Qty. Per One Door	Dimensions	Description
20	Intermediate Support 	250-940-967 AF-25-W03	2000 mm	Please order necessary qty. based on your door size.		●Material Aluminium Alloy ●Finish Matt Silver
21	Gasket for Intermediate Support 	250-940-961 AF-25-P03	Glass Thickness 5 mm 2500 mm	Please order necessary qty. based on your door size.		●Material Elastomer (TPE) ●Finish Light Grey
22	Gasket for Intermediate Support 	250-181-196 AF-25-P16	Glass Thickness 6 mm 2500 mm			

ROLLING DOOR SYSTEM

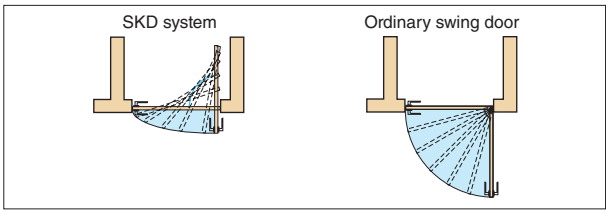
STEEL **SKD**



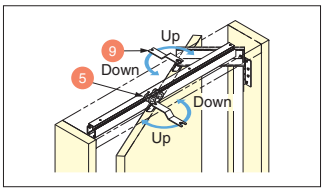
Door Weight	Max. 30 kg/Door
Door Thickness	28.4-36 mm
Door Width	695 mm or 790 mm
Door Height	1940 mm

■Features

- Minimum opening clearance - 1/3 of ordinary swing doors.
- Easy use for the disabled: No need to step back to open the door.

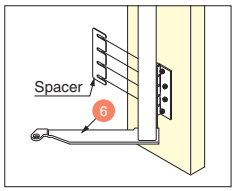


■Adjustment of Door Height



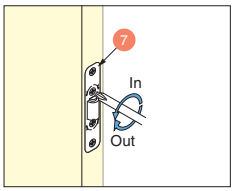
Adjustable height: ±6 mm

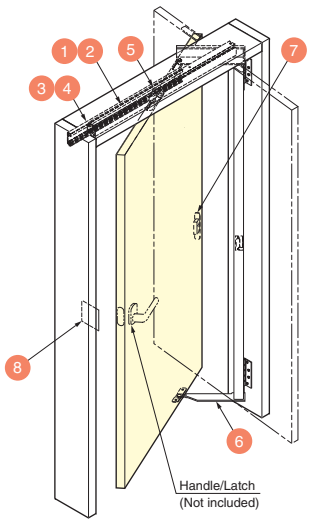
■Adjustment of Arm Parts

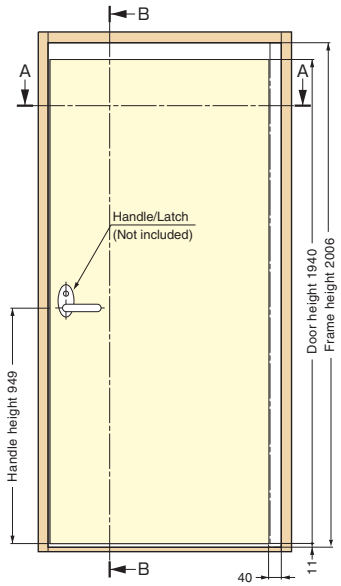


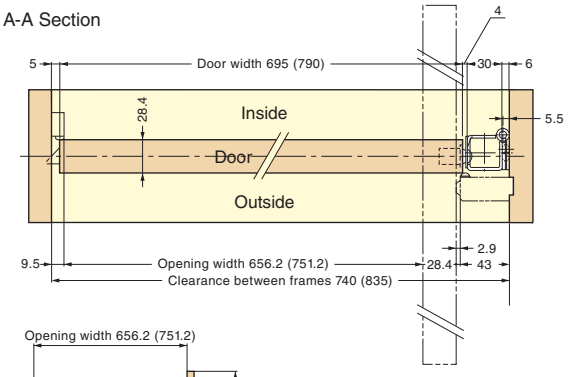
Adjustable length: 2 mm off from Frame

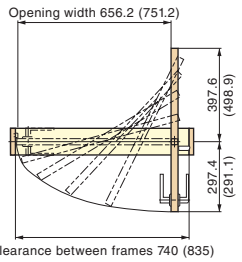
■Adjustment of Retaining Force



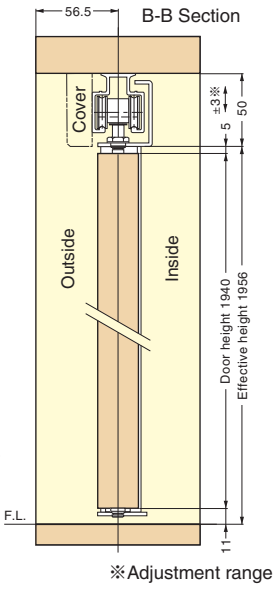






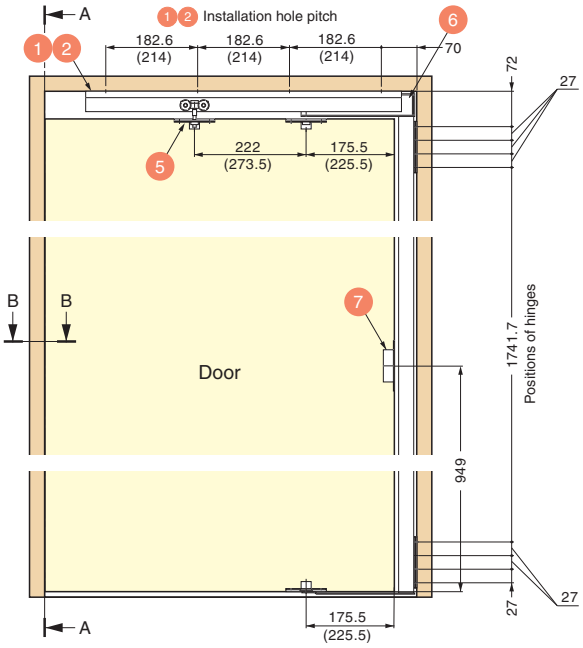


- Drawing: Dimensions for door thickness 28.4 mm.
- ( ): Dimensions for door width 790 mm.

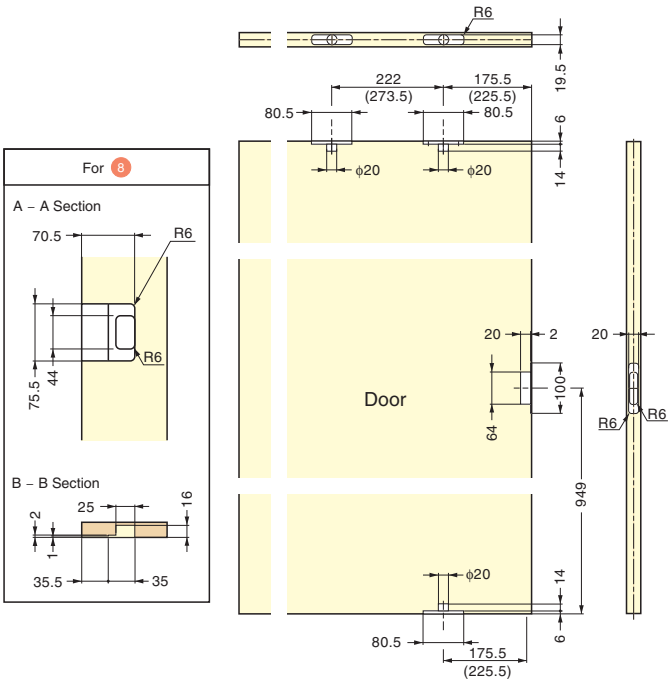


■Installation

( ): Dimensions for door width 790 mm.



■Cut Out Dimensions



Parts Set (Per Door)

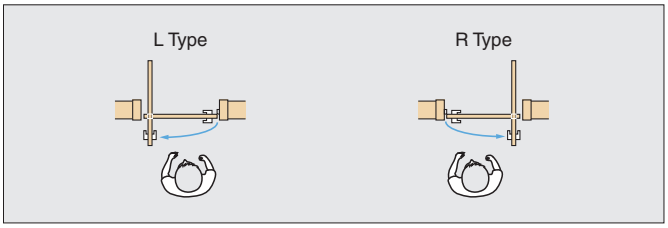
Necessary Parts

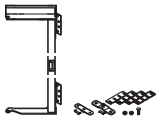
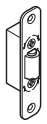
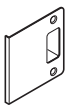
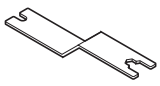
Please refer to "Qty [a] [b] [c] [d] "for parts included in each set.

	Item Code	Item Name	Description
a	250-121-300	SKD-695 (R)	R Type for Door Width 695 mm
b	250-121-301	SKD-695 (L)	L Type for Door Width 695 mm
c	250-121-302	SKD-790 (R)	R Type for Door Width 790 mm
d	250-121-303	SKD-790 (L)	L Type for Door Width 790 mm

Parts Included

No.	Qty a	Qty b	Qty c	Qty d	Part Name	Description
1	1 pc	1 pc	—	—	Upper Rail for Door Width 695 mm 	●Material Aluminium Alloy ●Finish Bronze Anodized
2	—	—	1 pc	1 pc	Upper Rail for Door Width 790 mm 	
3	1 pc	1 pc	—	—	Cover for Door Width 695 mm 	●Material ABS ●Colour Brown
4	—	—	1 pc	1 pc	Cover for Door Width 790 mm 	
5	1 pc	1 pc	1 pc	1 pc	Upper Roller 	●Material Zinc Alloy (ZDC) / Polyacetal (POM) ●Finish Plain / Natural



No.	Qty a	Qty b	Qty c	Qty d	Part Name	Description
6	1 pc	1 pc	1 pc	1 pc	Arm Parts 	●Material Steel ●Colour Brown
7	1 pc	1 pc	1 pc	1 pc	Roller Catch 	●Material Stainless Steel (SUS304) ●Finish Satin
8	1 pc	1 pc	1 pc	1 pc	Strike 	●Material Stainless Steel (SUS430) ●Finish Polished
9	1 pc	1 pc	1 pc	1 pc	Adjuster 	●Material Steel ●Finish Yellow Zinc Chromate

LEVER HANDLE

STAINLESS 316 STEEL　STEEL

ZL-1101, ZL-1102, ZL-1103

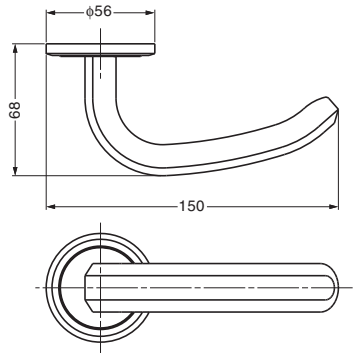


■ Features

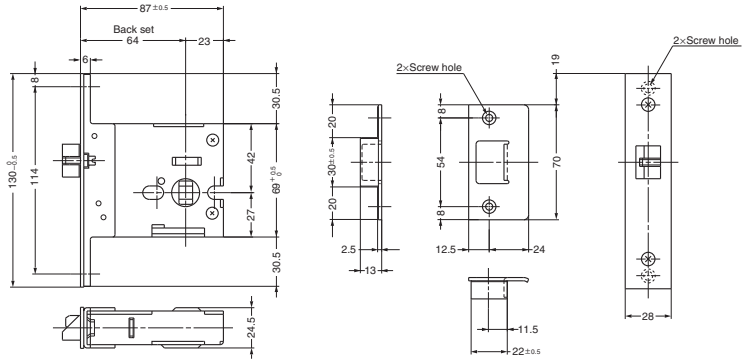
- Superior finish of Mirror/Satin.
- For door of thickness 36-42 mm.
- 2 handles included per unit.

■Dimensions

■STAINLESS STEEL LEVER HANDLE ZL-1101



■STAINLESS STEEL CASE LOCK / STRIKE / FRONT PANEL

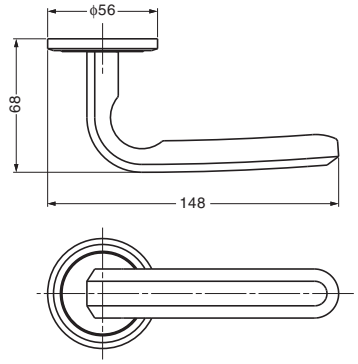


Case lock
LCA-1A64-2

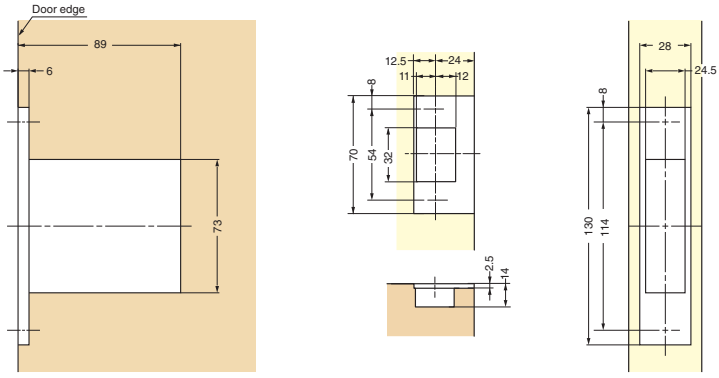
Strike
STP-1401-SS

Cover plate
FRP-128-SS

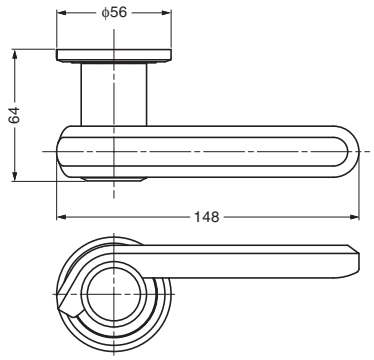
■STAINLESS STEEL LEVER HANDLE ZL-1102



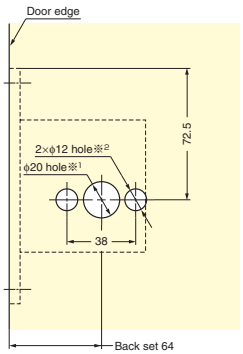
■Cut Out Dimensions



■STAINLESS STEEL LEVER HANDLE ZL-1103



■Cut Out Dimensions for Mounting Hole



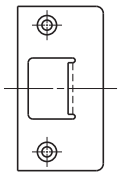
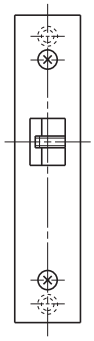
For lever handle, mounting hole size is as follows;
※1 : ϕ25 hole
※2 : ϕ6 hole ×2

Parts Set

Necessary Parts
Please refer to "Qty [a] - [c] " for parts included in each set.

	Item Code	Item Name	Part Name
[a]	260-174-117	ZL-1101-R-1B	Lever Handle 
[b]	260-174-124	ZL-1102-R-1B	Lever Handle 
[c]	260-174-131	ZL-1103-R-1B	Lever Handle 

Parts Included

No.	Qty [a]	Qty [b]	Qty [c]	Part Name
1	1 pair	–	–	 LEVER HANDLE (Hex key included.)
2	–	1 pair	–	 LEVER HANDLE (Hex key included.)
3	–	–	1 pair	 LEVER HANDLE (Hex key included.)
4	1 pc	1 pc	1 pc	 CASE LOCK LCA-1A64-2
5	1 pc	1 pc	1 pc	 STRIKE STP-1401-SS
6	1 pc	1 pc	1 pc	 COVER PLATE FRP-128-SS

■Application Example



LEVER HANDLE / HINGE FOR GLASS DOOR

ZL-1601, ZL-1702







Hinge ZL-1702 (P.463)

Suitable Glass : Tempered Glass
Door Thickness : 8,10 mm
Max Door Width : 900 mm
Max Door Weight : 50 kg
Material : SUS316
Finish : Zwei L Finish

■Features

Superior finish of Mirror/Satin.



P.715

■Lever Handle

Item Code	Item Name	Weight	Box
260-177-001	ZL-1101	1.2 kg	1 pair



P.715

■Lever Handle

Item Code	Item Name	Weight	Box
260-177-002	ZL-1102	1.1 kg	1 pair



ZL-1103+ZL-1601-1

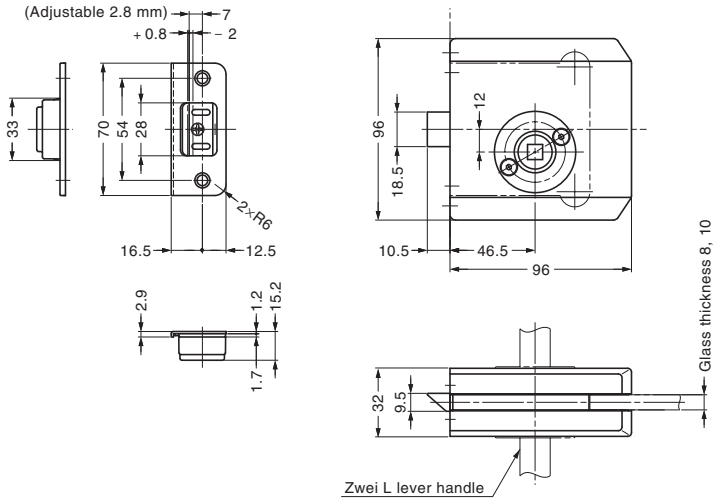
P.715

■Lever Handle+Case Latch ZL-1601

Item Code	Item Name	Weight	Box
260-025-580	ZL-1103+ZL-1601-1	2.8 kg	1 set
260-025-581	ZL-1103+ZL-1601-2		

2 handles and 1 case latch included per set.

■Case Latch

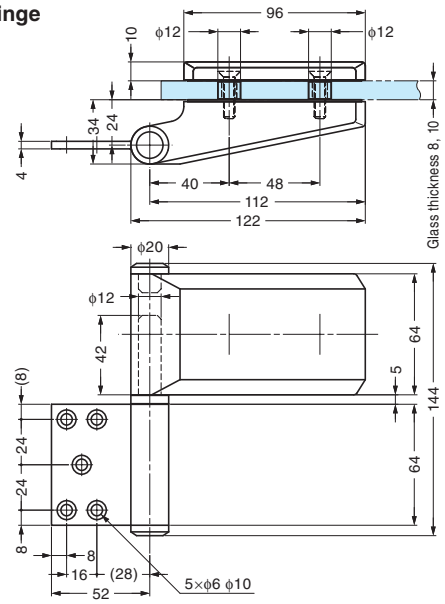


Item Code	Item Name	Type
260-177-000	ZL-1601-1	Right hand
260-170-783	ZL-1601-2	Left hand

■Parts Included

- Countersunk head screw 3.5×22 (SUS)
- Screw M4×12 (SUS)
- Allen key

■Hinge

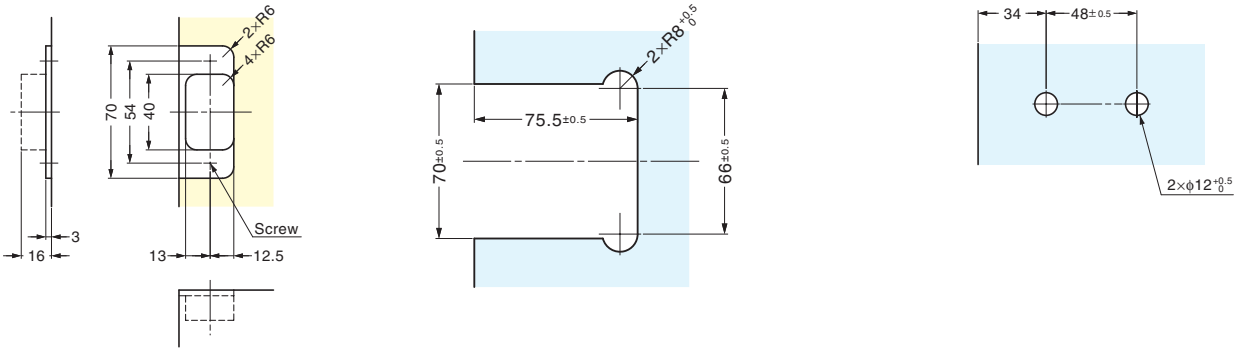


Item Code	Item Name
170-183-400	ZL-1702

■Parts Included

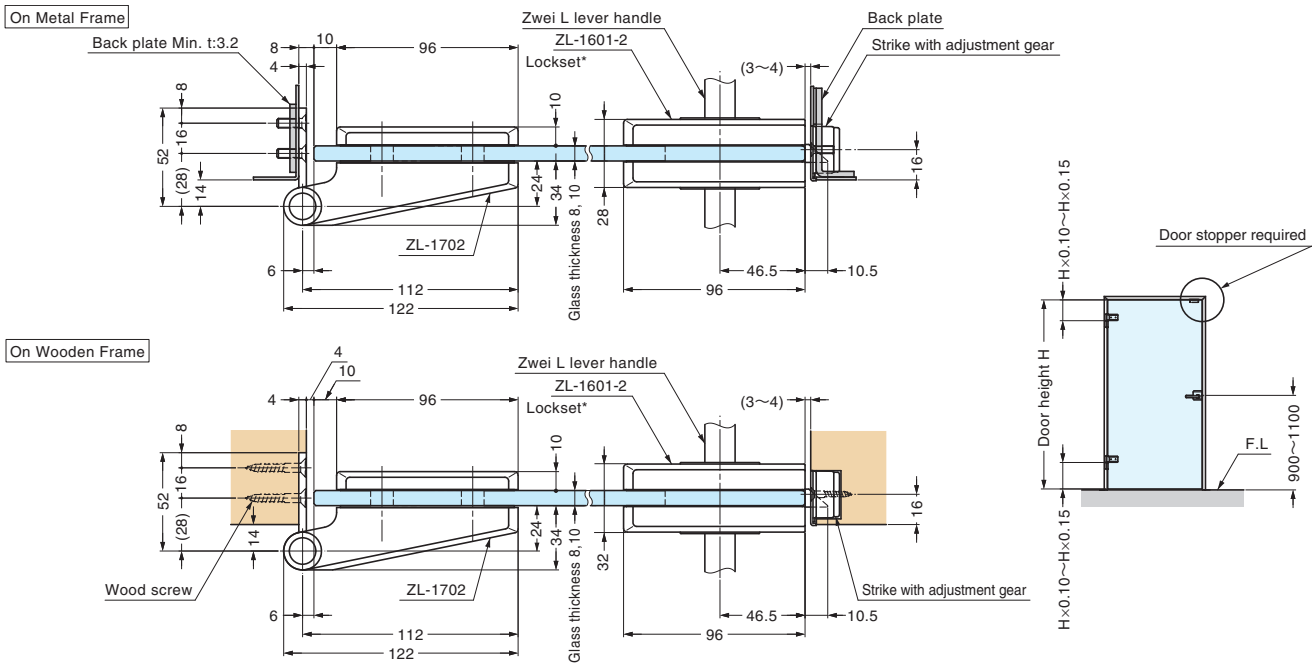
- Countersunk head screw 4.8×32 (SUS)
- Screw M5×16 (SUS)
- Allen key

■Cut Out Dimensions



■Installation

Left hand opening is shown.



* Use ZL1601-1 for right hand opening.

DOOR DAMPER

LDD-V



Right-handed

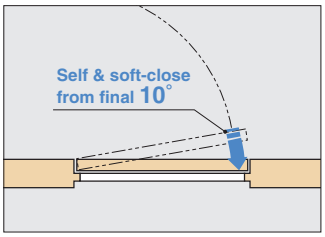


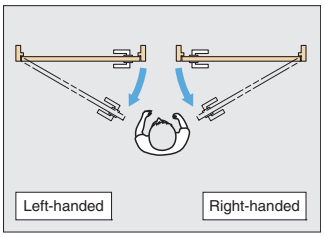
■Features

- Concealed type.
- Grips door at final 10° and self-closes doors more gently compared to other door closers, putting less stress on the hinges.
- Closing speed adjustable even after installation.
- Counter plate has 3-way-adjustment function.
- Recommended Door Specifications:
  Thickness : Min. 33 mm
  Width : Max. 900 mm
  Weight : 15 - 40 kg
- Successfully passed for the 100,000 open/close private cycle test.
- Recommended hinge: HES3D series (P.470-473)
- Adjustment Jig LDD-V-JIG & Template LDD-V-TMP available (P.719).

■Parts Included

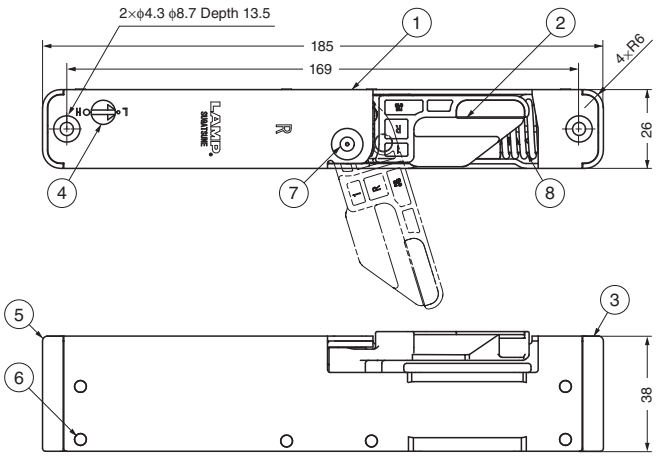
- Binding head tapping screw 4×45
- Binding head tapping screw 3.5×15





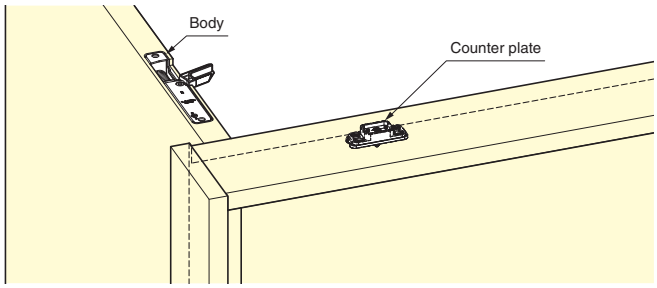
Right-handed type shown.

■Body



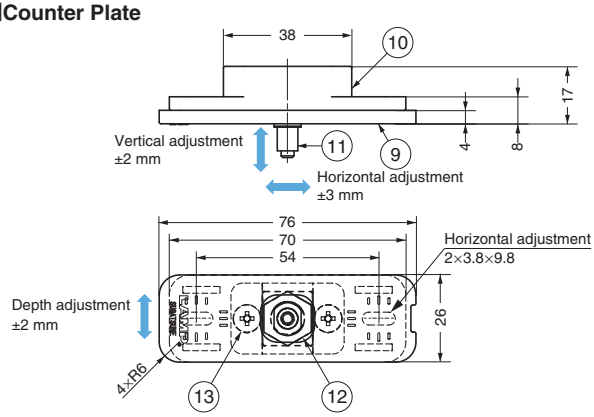
■Installation

※Below drawing shows right-handed.



Video Link

■Counter Plate



No.	Part Name	Material	Finish/Colour
①	Body Case	Steel (SPCC)	Clear Zinc Chromate
②	Arm	Polyacetal (POM)	Grey
③	Spring Base	Polyacetal (POM)	Grey
④	Damper Force Adjustment Shaft	Polyacetal (POM)	Grey
⑤	Damper Base	Polyacetal (POM)	Grey
⑥	Countersunk Hollow Pin	Steel (SWCH)	Clear Zinc Chromate
⑦	Shoulder Shaft	Steel (SUM)	Nickel
⑧	Spring	Steel (SWP)	Clear Zinc Chromate
⑨	Counter Plate Cover	Polyacetal (POM)	Grey
⑩	Counter Plate Case	Polyacetal (POM)	Grey
⑪	Counter Plate Shaft	Steel (SUM)	Nickel
⑫	Vertical Adjustment Screw	Steel (SWRCH)	Clear Zinc Chromate
⑬	Depth Adjustment Screw	Steel (SWCH)	Clear Zinc Chromate

Item Code	Item Name	Type	Door Width	Door Thickness	Door Weight	Weight	Carton
270-017-563	LDD-V-R	Right-handed	Max. 900	Min. 33	15～ 40 kg	427 g	24 pcs
270-017-564	LDD-V-L	Left-handed	Max. 900	Min. 33	15～ 40 kg	427 g	24 pcs

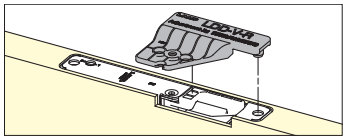
ADJUSTMENT JIG FOR COUNTER PLATE OF LDD-V

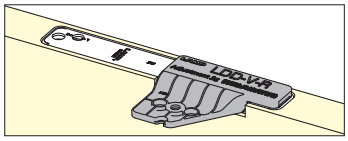
LDD-V-JIG

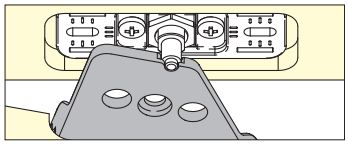


■Features

Easy to adjust position of counter plate.







Video Link

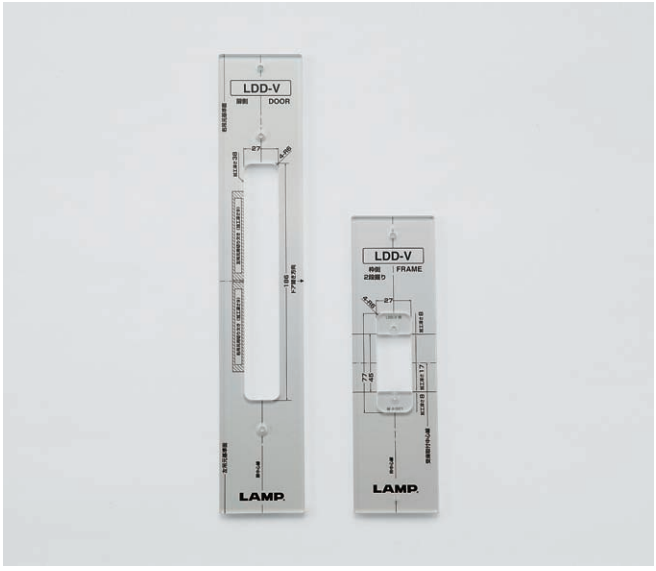


LDD-V (Sold separately)

Item Code	Item Name	Material	Weight	Carton
270-025-276	LDD-V-R-JIG	ABS	11 g	1000 pcs
270-025-275	LDD-V-L-JIG	ABS	11 g	1000 pcs

TEMPLATE FOR LDD-V

LDD-V-TMP



■Features

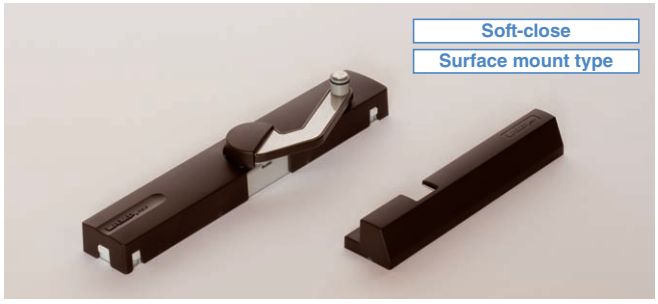
- Easy to make mortise on wood door and frame.
- Possible to use repeatedly.
- Two templates included: for door & frame.

Item Code	Item Name	Material	Colour
270-024-568	LDD-V-TMP	Methacrylic Resin (PMMA)	Clear

DOOR DAMPER

Lapcon STEEL

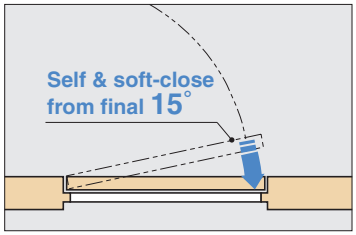
LDD-S

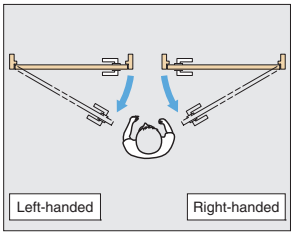


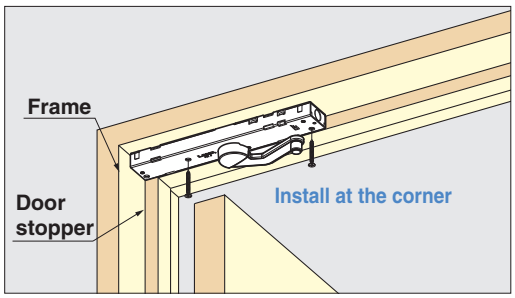
Right-handed shown.











■Features

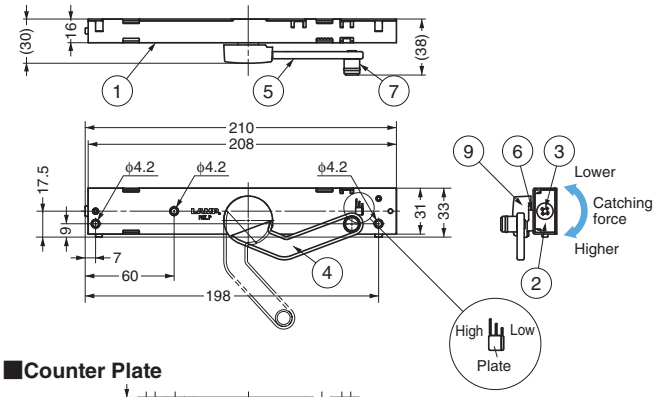
- Surface mount type.
- Unobtrusive design : damper unit is only 20 mm high, easily fits most door frames.
- Self & soft-close from final 15°.
- Recommended Door Specifications:
  Width : Max. 900 mm
  Weight : 15 - 40 kg
- Successfully passed for the 100,000 open/close private cycle test.
- Available in 4 colours to match your door: White (WT), Light Grey (LGR), Light Brown (LBR) or Dark Brown (DBR).
- Recommended hinge: HES series (P.470-473)

Video Link

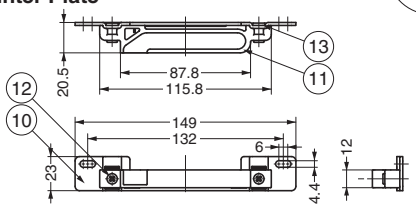
■Parts Included

- Countersunk head tapping screw 3.5×30
- Binding head tapping screw 4×16

■Body



■Counter Plate



Right-handed shown.

■Available Colours

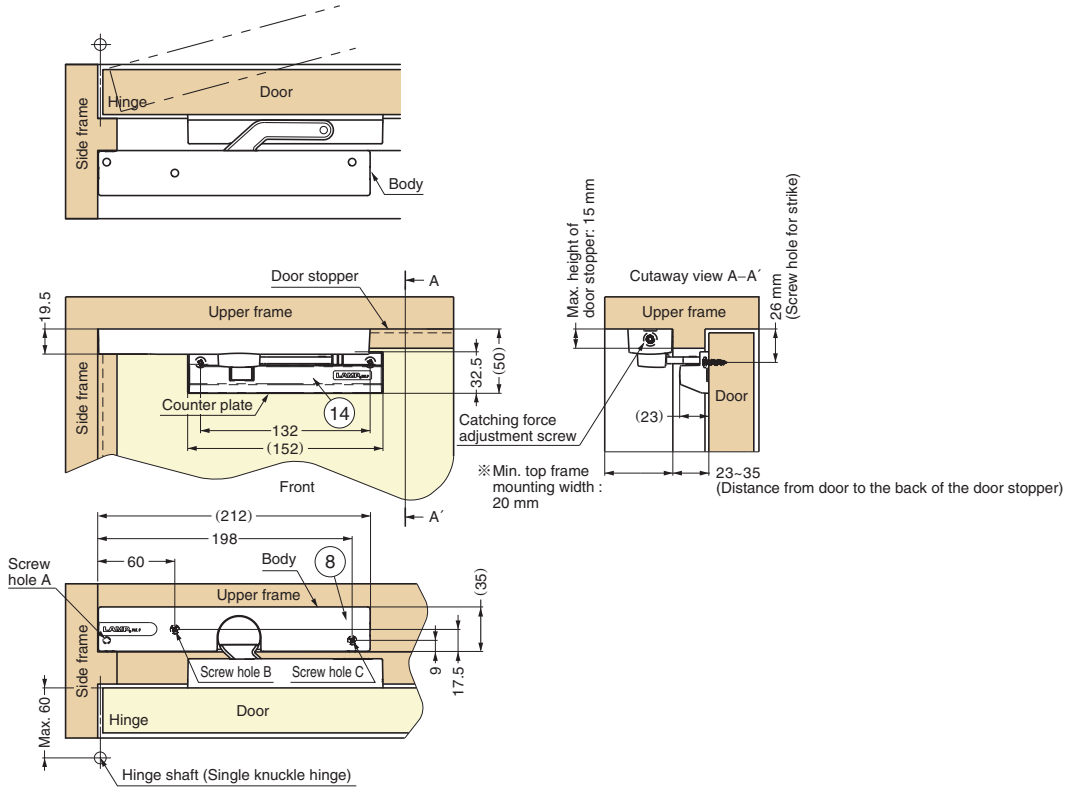


White　Light Grey　Light Brown　Dark Brown

No.	Part Name	Material	Finish/Colour
①	Case	Steel (SGCC)	Chromate
②	Block	Polyacetal (POM)	Natural
③	Catching Force Adjustment Screw	Steel	Chromate
④	Arm	Stainless Steel (SUS304)	Plain
⑤	Arm Spacer	Polyacetal (POM)	(As Left)
⑥	Arm Axis	Zinc Alloy (ZDC)	Chromate
⑦	Roller	Polyacetal (POM)	Grey
⑧	Body Cover	ABS	(As Left)
⑨	Arm Cover	ABS	(As Left)
⑩	Counter Plate	Steel (SPCC)	Chromate
⑪	Guide	Zinc Alloy (ZDC)	Chromate
⑫	Screw	Steel (SWCH)	Nickel
⑬	Nut	Steel (SPCC)	Nickel
⑭	Counter Plate Cover	ABS	(As Left)

Item Code	Item Name	Colour	Type	Door Width	Door Weight	Weight	Carton
270-018-984	LDD-S-R　WT	White	Right-handed	Max. 900	15～40 kg	550 g	20 pcs
270-018-985	LDD-S-L　WT	White	Left-handed			550 g	20 pcs
270-018-986	LDD-S-R LGR	Light Grey	Right-handed			550 g	20 pcs
270-018-987	LDD-S-L　LGR	Light Grey	Left-handed			550 g	20 pcs
270-018-988	LDD-S-R　LBR	Light Brown	Right-handed			550 g	20 pcs
270-018-989	LDD-S-L　LBR	Light Brown	Left-handed			550 g	20 pcs
270-018-990	LDD-S-R DBR	Dark Brown	Right-handed			550 g	20 pcs
270-018-991	LDD-S-L　DBR	Dark Brown	Left-handed			550 g	20 pcs

■Installation



※When the distance from door to the back of the door stopper is 20 mm ～ 25 mm, please use the screw hole A and C.

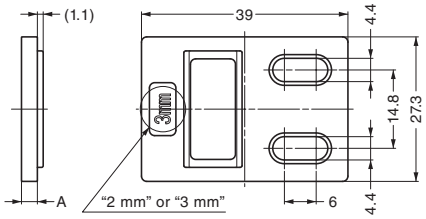
SPACER FOR LDD-S

LDD-S-P



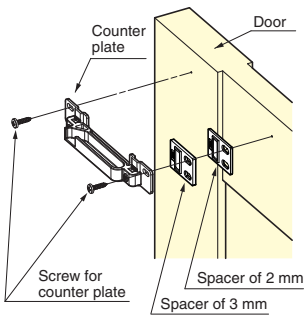
■Features

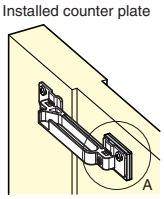
- Two types available: 2 mm thickness and 3 mm thickness.
- Can be used for Max. 6 mm thickness gap.

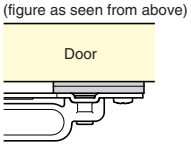


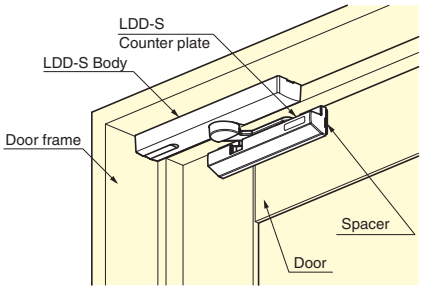
■Installation

(In case of 5 mm thickness gap)



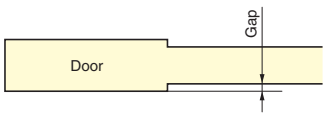






■Remarks Before Installation

Check the gap of the door surface and choose the suitable spacer (combination of spacers).



Part Name	Material	Colour
Body	ABS	Black

Item Code	Item Name	A	Weight	Box	Carton
270-021-019	LDD-S-P2 BL	2	2 g	100 pcs	1000 pcs
270-021-020	LDD-S-P3 BL	3	3 g	100 pcs	1000 pcs

DOOR CLOSER

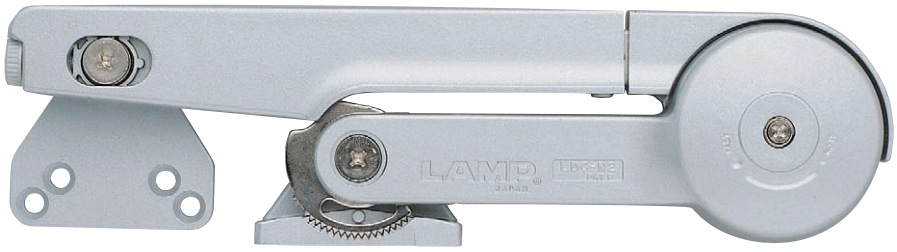
Lapcon L=R STEEL

LDC-N2

Video Link

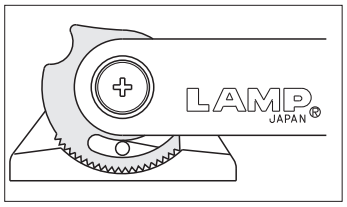
LDC - N21SSL (Flat Bracket)



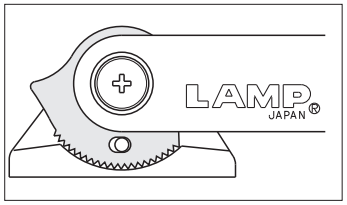


LDC - N22SUM (A Bracket)

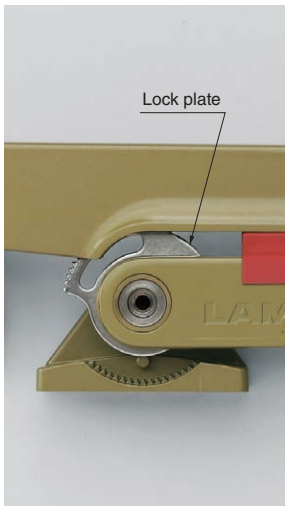




With Stopper



Without Stopper



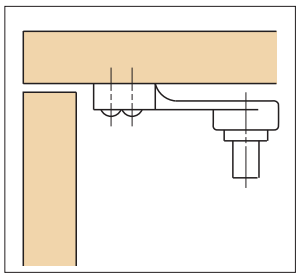
Initial setting (with stopper)

■Features

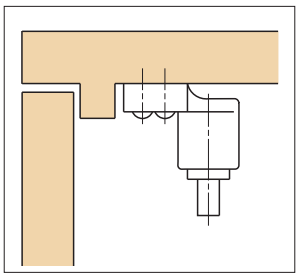
- Lapcon damper mechanism provides a smooth closing.
- Closing speed adjustable.
- Non-handed.

■Parts Included

Countersunk head tapping screw 5×30



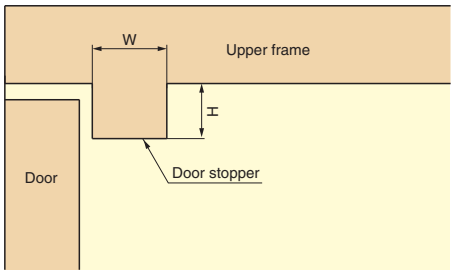
Flat Bracket



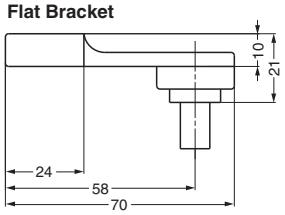
A Bracket

Item Code	Item Name	Type		Material	Finish	Door Size	Door Weight	Speed Adjustment Section	Weight	Box
270-176-050	LDC - N21SSL	Flat Bracket	Without Stopper	Aluminium Alloy	Silver	Max. 900×2100	Max. 15～ 45 kg	Self Closing: 0˚ ～ 150˚ Stoppable range: 70˚ ～ 180˚ Self Opening: 150˚ ～ 180˚	1.55 kg	1 pc
270-176-051	LDC - N21SYG				Gold					
270-176-052	LDC - N21SUM				Umber					
270-176-056	LDC - N22SSL	A Bracket			Silver					
270-176-057	LDC - N22SYG				Gold					
270-176-058	LDC - N22SUM				Umber					
270-176-053	LDC - N21SL	Flat Bracket	With Stopper		Silver			Self Closing: 0˚ ～ 170˚ Self Opening: 170˚ ～ 180˚		
270-176-054	LDC - N21YG				Gold					
270-176-055	LDC - N21UM				Umber					
270-176-059	LDC - N22SL	A Bracket			Silver					
270-176-060	LDC - N22YG				Gold					
270-176-061	LDC - N22UM				Umber					

How to Select Bracket

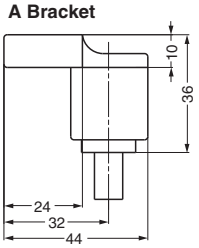


Flat Bracket



・W≧30 mm or no door stopper
・H≧15 mm (with spacer)

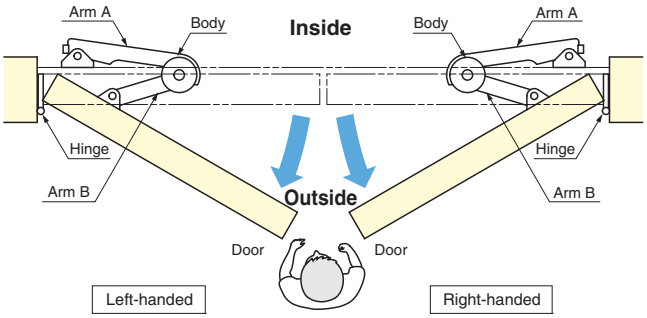
A Bracket



・W≦20 mm and H≦15 mm

- The width of door stopper is Min. 30 mm / Door frame without door stopper: Flat Bracket
- The door stopper is Max. 30 mm wide and Max. 15 mm height: A Bracket
- When the height of door stopper is Min. 15 mm, please use Flat bracket and arrange spacer at your end.
  (Spacer not included.)

Two-door Application

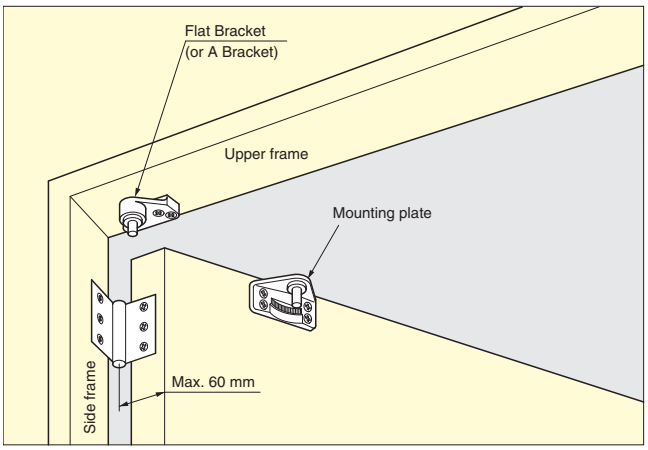


- For two-door application, please install as left.

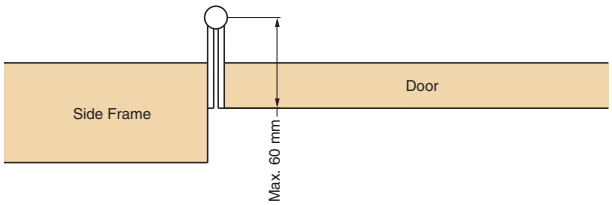
■Remarks

The opening angles between Arm A and Arm B are Max. 120˚. If the arm is opened over 120˚, it may break.

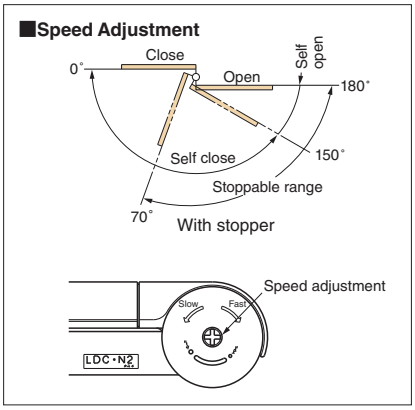
Hinges

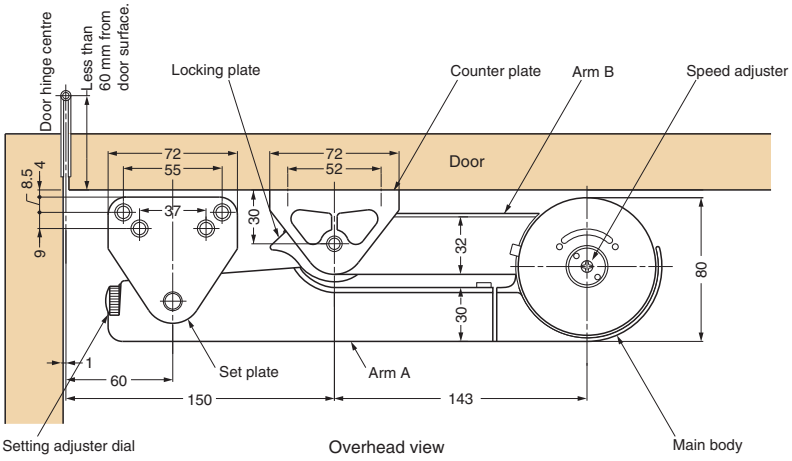


- The length from hinge shaft to the door surface is to be less than 60 mm.

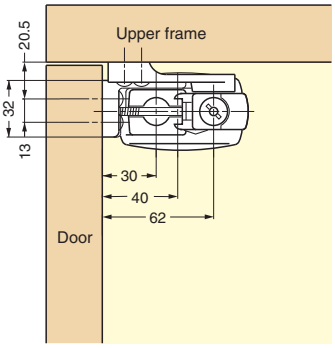


Installation Example for Flat Bracket

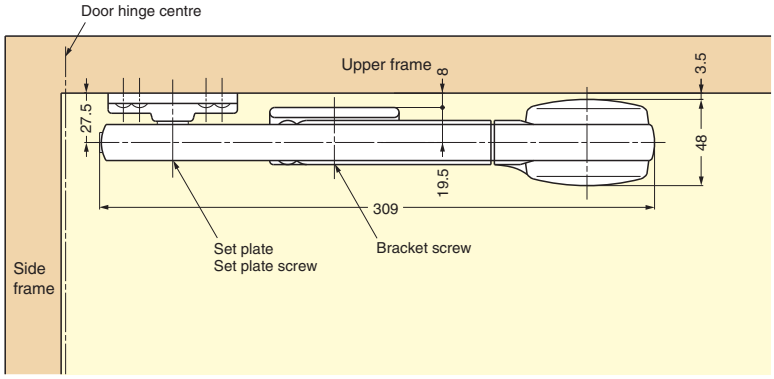




Overhead view

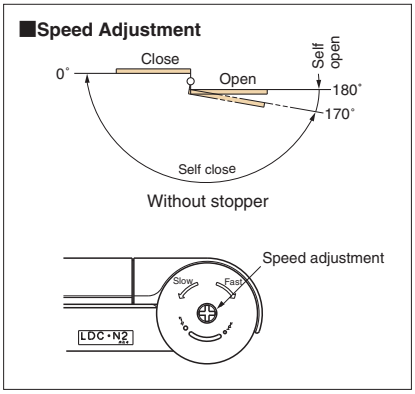


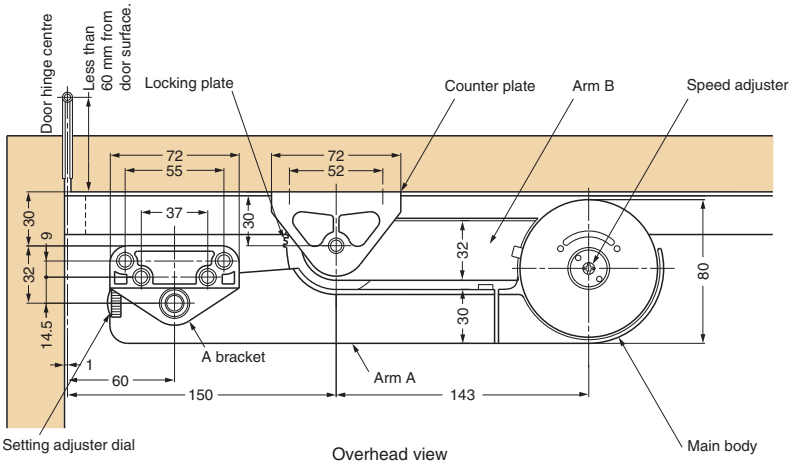
Side view



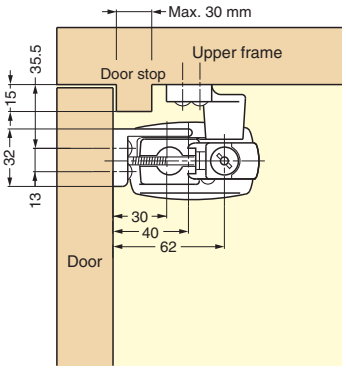
Front view

Installation Example for A Bracket

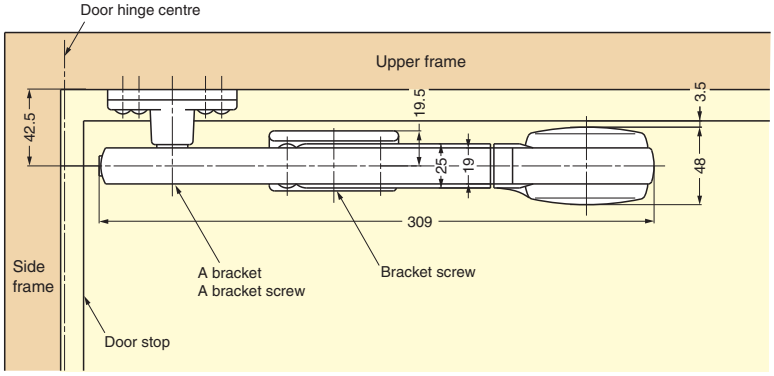




Overhead view



Side view



Front view

HES Hinge + Esprit

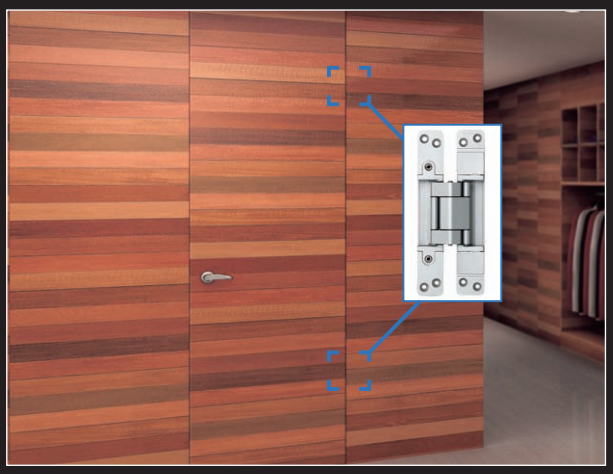
HES is our complete line of concealed hinges that incorporates a distinct functionality with high load capacity, safety, and adjustability, but most of all…design.

The HES logo expresses our spirit through quality craftsmanship.

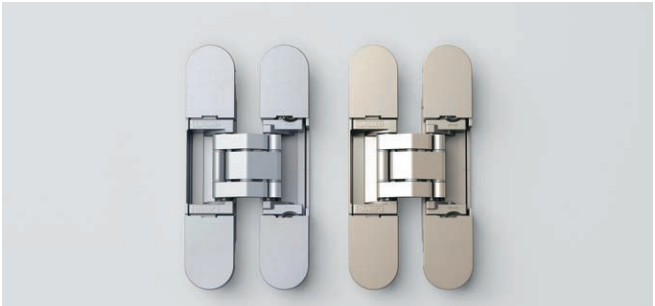




Designed for
Versatility



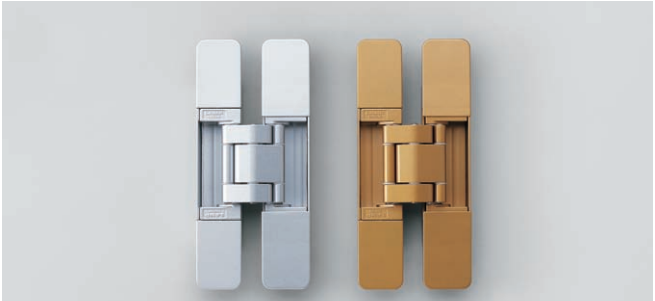
Concealed for
Elegance



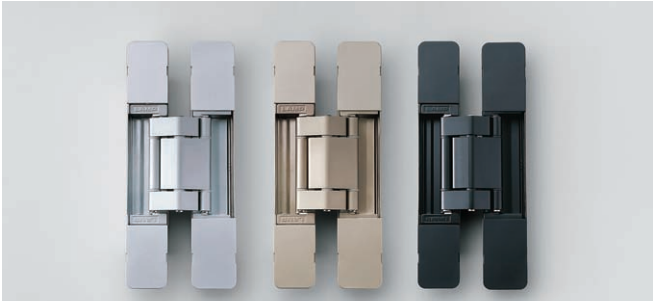
HES3D-90 (P.470)



HES3D-120 (P.471)



HES3D-160 (P.472)



HES3D-E190 (P.473)

STAINLESS STEEL DOOR STOPPER

STAINLESS 316 STEEL · STAINLESS

ZL-1801

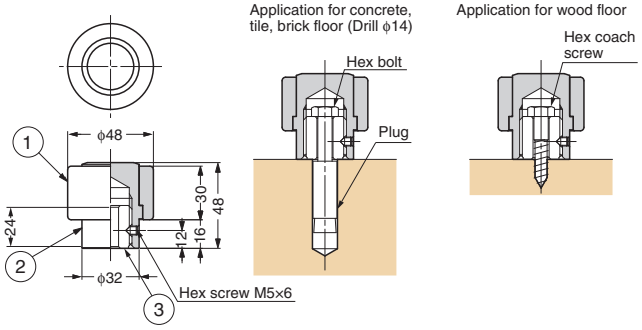


■Features

- Floor mount type.
- Superior finish of Mirror/Satin.

■Parts Included

- Hex bolt M8×75 (SUS)
- Plug (M8 Drill ϕ14)
- Hex coach screw M8×50 (SUS)
- Hex Key



No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS316)	Zwei L finish
②	Bumper	Rubber	Black
③	Axis	Stainless Steel (SUS316)	Plain

Item Code	Item Name	Weight	Box
270-170-780	ZL-1801	361 g	1 pc

STAINLESS STEEL DOOR STOPPER

STAINLESS 316 STEEL · STAINLESS

ZL-1802

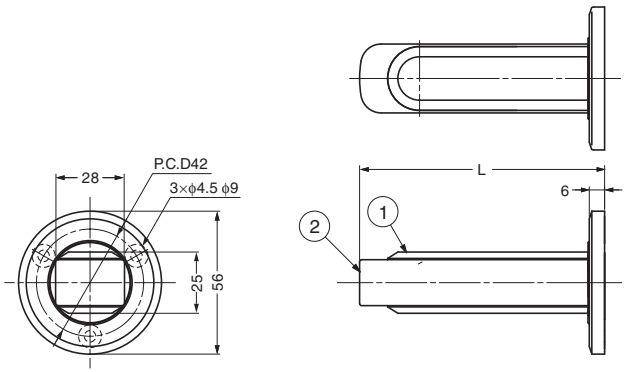


■Features

- Wall mount type.
- Superior finish of Mirror/Satin.

■Parts Included

- Countersunk head wood screw 4.1×32 (SUS)
- Plug (wood screw 4.1, Drill ϕ6)



No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS316)	Zwei L finish
②	Bumper	Rubber	Black

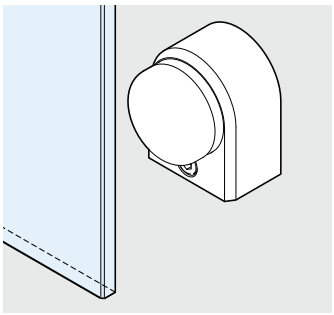
Item Code	Item Name	L	Weight	Box
270-170-781	ZL-1802-72	72	390 g	1 pc
270-170-782	ZL-1802-96	96	480 g	1 pc

STAINLESS STEEL DOOR STOPPER

STAINLESS 316 STEEL · STAINLESS

ZL-1803



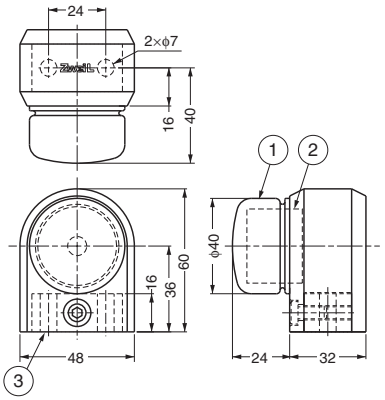


■Features

- Floor mount type.
- Polyurethane cushion has excellent shock absorbing and damping performance.
- Superior finish of Mirror/Satin.

■Parts Included

- Rounded head wood screw 6.2×56 (SUS)
- Plug (MG-8×40P)
- Hex Key



No.	Part Name	Material	Finish/Colour
①	Stopper	Ethylene Propylene Rubber (EPDM)	Grey
②	Cushion	Foamed Polyurethane (PUR)	—
③	Body	Stainless Steel (SUS316)	Zwei L finish

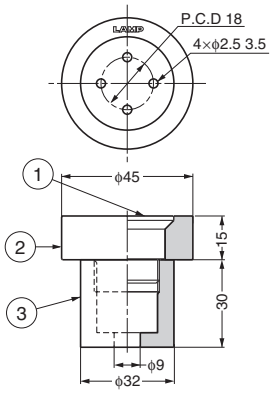
Item Code	Item Name	Weight	Box
270-183-404	ZL-1803	640 g	1 pc

STAINLESS STEEL DOOR STOPPER

STAINLESS 304 STEEL · STAINLESS

HT-32





■Parts Included

- Hex coach screw 8×50 (SUS)
- Anchor bolt M8×70 (SUS)

No.	Part Name	Material	Finish/Colour
①	Pin	Stainless Steel (SUS304)	Satin
②	Bumper	Acrylic Resin	Clear
③	Base	Stainless Steel (SUS304)	Satin

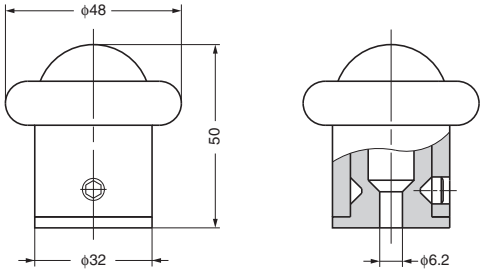
Item Code	Item Name	Weight	Box	Carton
270-170-247	HT-32P	330 g	1 pc	30 pcs

DOOR STOPPER

STEEL

BPV-50V





■Features

Beautiful finish with 24K gold/chrome coating.

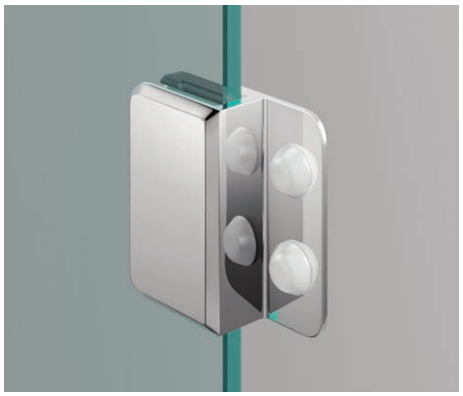
■Parts Included

Countersunk head wood screw 5.1×32

Item Code	Item Name	Material		Finish/Colour		Weight	Carton
		Body	Bumper	Body	Bumper		
270-173-590	BPV-50V-GP	Brass	Rubber	Gold	Black	310 g	20 pc
270-173-303	BPV-50V-CR	Brass	Rubber	Chrome	Black	310 g	20 pc

DOOR STOPPER

HT-G70



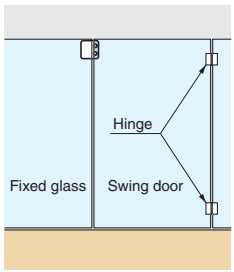
■Features

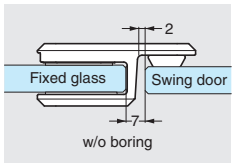
- For single swing door application.
- No need to bore on glass. Can be installed directly to the fixed glass panel with PVC pad.
- Ideal for shower booth.

■Remarks

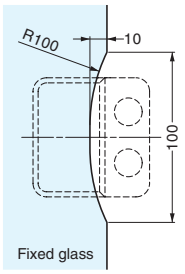
- Do not use in upper glass transom.
- Soft-closing hinges/self-closing (function within final 25 degrees) hinges are recommended to use with to prevent from excessive impact.

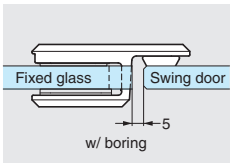
■Installation

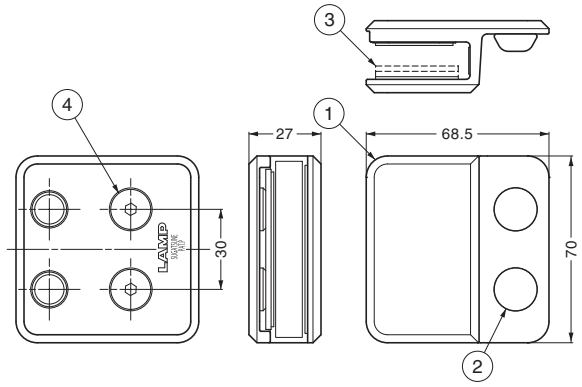




■Cut Out Dimensions







No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SCS13)	Mirror
②	Pad	Silicone (Si)	Natural
③	Gasket	Vinyl Chloride Resin (PVC)	Clear
④	Screw	Stainless Steel (SUS303)	Plain

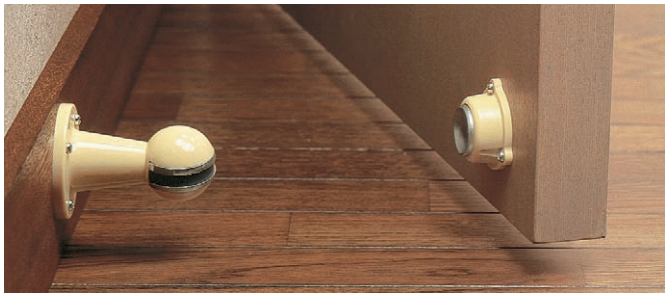
Item Code	Item Name	Glass Thickness	Weight	Carton
270-021-701	HT-G70	8, 10, 12	374 g	40 pcs

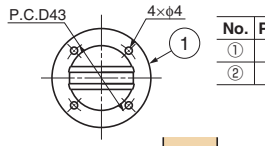
DOOR STOPPER

STEEL

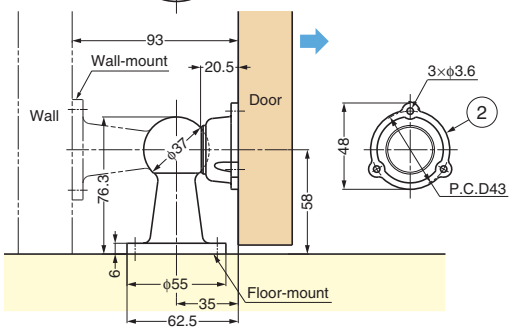
MI, MBR







No.	Part Name	Material	Colour
①	Body	Polycarbonate (PC)	Ivory, Brown
②	Strike	ABS	Ivory, Brown



■Features

- Holds door at opened position with strong magnet.
- Can be mounted on either floor or wall.

■Parts Included

- Rounded head wood screw 3.5×22 (Body)
- Rounded head wood screw 3.1×16 (Mounting plate)

■Sold Separately

Anchor bolt MA (below)

■Anchor bolt MA (Sold Separately)

Item Code	Item Name	Weight	Box	Carton
270-050-100	MA	114 g	25 pcs	100 pcs

Item Code	Item Name	Colour	Magnetic Force		Weight	Box	Carton
270-172-008	MI	Ivory	137 N	14 kgf	165 g	10 pcs	100 pcs
270-172-007	MBR	Brown	137 N	14 kgf	165 g	10 pcs	100 pcs

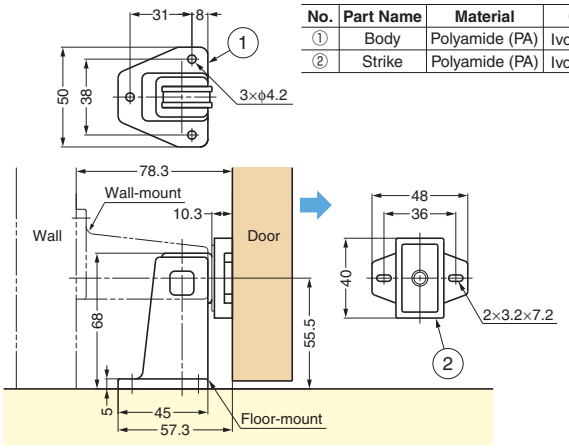
DOOR STOPPER

STEEL

KI, KBR







No.	Part Name	Material	Colour
①	Body	Polyamide (PA)	Ivory, Brown
②	Strike	Polyamide (PA)	Ivory, Brown

■Features

- Holds door at opened position with strong magnet.
- Can be mounted on either floor or wall.

■Parts Included

- Countersunk head wood screw 3.8×20 (Body)
- Countersunk head wood screw 3.1×13 (Mounting plate)

■Sold Separately

Anchor bolt KA (below)

■Anchor bolt KA (Sold Separately)

Item Code	Item Name	Weight	Box	Carton
270-050-101	KA	114 g	25 pcs	100 pcs

Item Code	Item Name	Colour	Magnetic Force		Weight	Box	Carton
270-172-006	KI	Ivory	118 N	12 kgf	100 g	10 pcs	100 pcs
270-172-005	KBR	Brown	118 N	12 kgf	100 g	10 pcs	100 pcs

STEP-ON DOOR HOLDER

STEEL

DJ-175



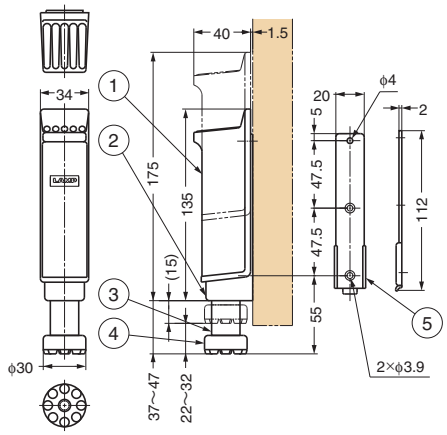


■Features

- Holds door at any position.
- Easy to operate. Simply step on the top to hold or release the door.
- The cover keeps out dust.
- Easy installation: Can be installed with snap-on.

■Parts Included

- Binding head tapping screw 3.5×16 (1 pc)
- Countersunk head tapping screw 3.5×16 (2 pcs)



No.	Part Name	Material	Finish/Colour
①	Step	Polyamide (PA)	Brown
②	Body	Polyacetal (POM)	Ivory
③	Shaft	Polyacetal (POM)	Ivory
④	Glide	Rubber	Brown
⑤	Mounting Plate	Steel	Yellow Zinc Chromate

Item Code	Item Name	Weight	Box	Carton
270-050-098	DJ-175	215 g	10 pcs	50 pcs

STAINLESS STEEL DOOR GUARD

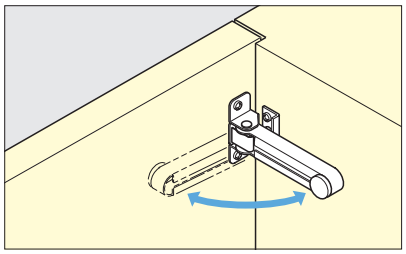
STAINLESS 304 STEEL

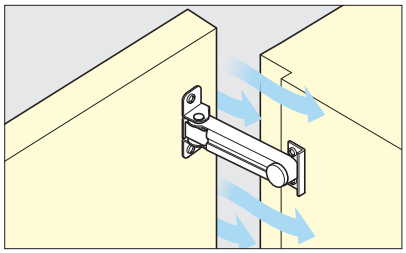
KN-120

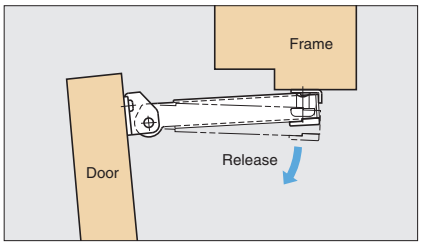


■Features

Keeps the door semi-open from 6 cm for air circulation.







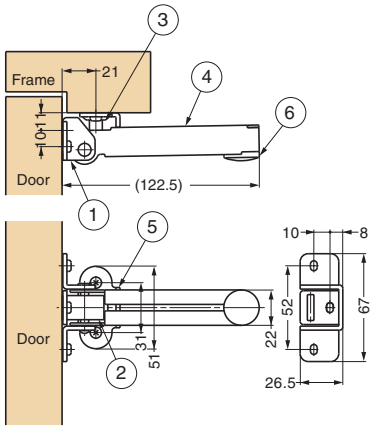
●Release the door guard as above to close the door completely.

■Remarks

Screws are not included.

■Recommended Screw

Pan-head tapping screw 4×25



Item Code	Item Name	Retaining Force	Weight	Box	Carton
270-172-551	KN-120	2940 N	174 g	10 pcs	80 pcs

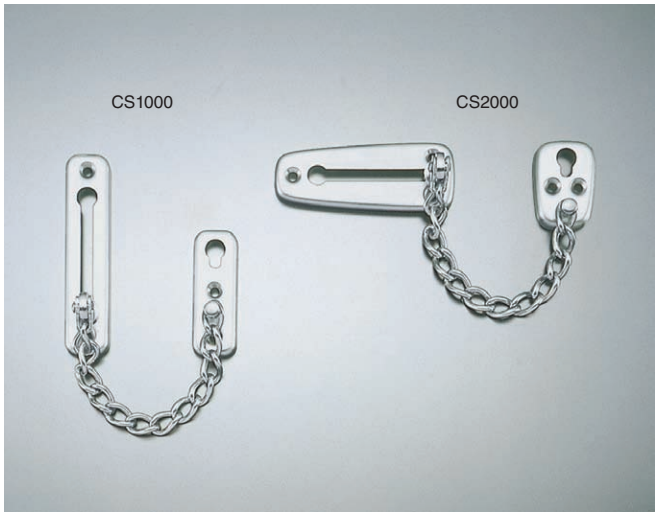
No.	Part Name	Material	Finish/Colour
①	Bracket	Stainless Steel (SUS304)	Polished
②	Plate	Stainless Steel (SUS304)	—
③	Shaft	Stainless Steel (SUS304)	—
④	Body	Stainless Steel (SUS304)	Satin
⑤	Strike	Stainless Steel (SUS304)	Polished
⑥	Cover	Elastomer (TPE)	Black

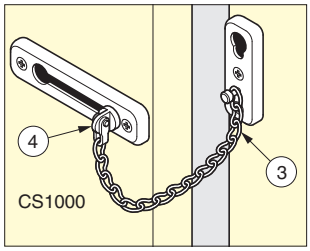
STAINLESS STEEL DOOR CHAIN

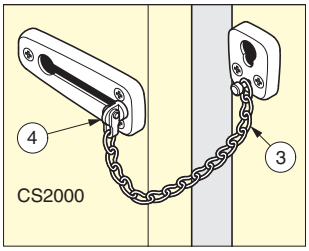
STAINLESS 304 STEEL

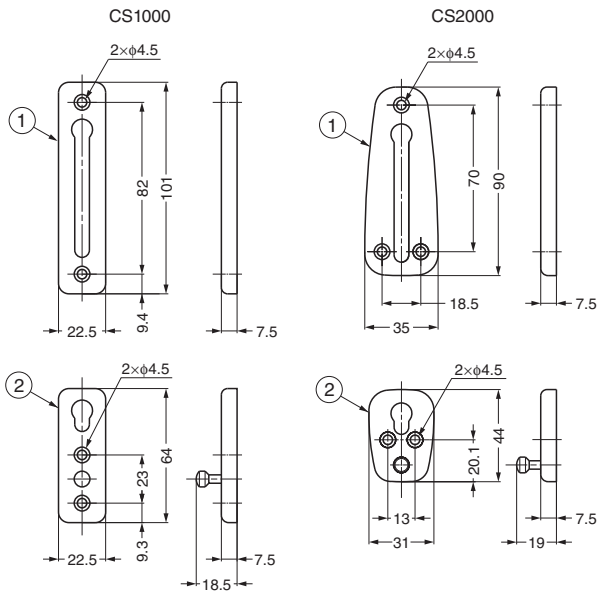
STAINLESS

CS









■Parts Included

Countersunk rounded wood screw 4×25 (SUS)

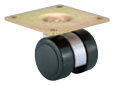
Item Code	Item Name	Weight	Box	Carton
270-051-060	CS1000	115 g	15 pcs	150 pcs
270-051-061	CS2000	120 g	15 pcs	150 pcs

No.	Part Name	Material	Finish
①	Body (1)	Stainless Steel (SUS304)	Satin
②	Body (2)	Stainless Steel (SUS304)	Satin
③	Chain (150 mm length)	Stainless Steel (SUS304)	Polished
④	Knob	Brass	Nickel

CASTERS
LEVELING GLIDES

SUGATSUNE

TWIN WHEEL CASTERS

Picture	Item Name	Load Capacity (kgf)	Page
	GX50P (PLATE)	100	736
	GX50N12 (THREADED BOLT)	100	736
	GX60P (PLATE)	150	737
	GX60N12 (THREADED BOLT)	150	737
	GX75P (PLATE)	200	738
	GX75N16 (THREADED BOLT)	200	738
	GX-W50GP (PLATE)	200	739
	GX-W50GN (THREADED BOLT)	200	739
	GX-W50K (NON-SWIVEL)	200	739
	FA45P (PLATE)	50	741
	FA45N (THREADED BOLT)	50	741
	FA45S (INSER BOLT)	50	741
	FP45P (PLATE)	40	742
	FP45N (THREADED BOLT)	40	742
	FP45S (INSER BOLT)	40	742
	FA55P (PLATE)	80	743
	FA55N (THREADED BOLT)	80	743
	FA55S (INSER BOLT)	80	743
	FP55P (PLATE)	50	744
	FP55N (THREADED BOLT)	50	744

Picture	Item Name	Load Capacity (kgf)	Page
	FP55S (INSER BOLT)	50	744
	FAU55P (PLATE)	70	745
	FAU55N (THREADED BOLT)	70	745
	FAU55S (INSER BOLT)	70	745
	FPU55P (PLATE)	50	746
	FPU55N (THREADED BOLT)	50	746
	FPU55S (INSER BOLT)	50	746
	BU-25P (PLATE)	40	747
	BU-25N (THREADED BOLT)	40	747
	BU-25S (INSER BOLT)	40	747
	BR-20P, 25P (PLATE)	30～40	748
	BR-20N, 25N (THREADED BOLT)	30～40	748
	BR-20S, 25S (INSER BOLT)	30～40	749
	PT-50N12 (THREADED BOLT)	51	749
	PT-30P (PLATE)	20.4	749
	JP-50BKP, 60BKP (PLATE)	50～60	750
	JP-50BKT, 60BKT (THREADED BOLT)	50～60	750
	DB-P, DS-P (PLATE)	50～80	751
	DB, DS (THREADED BOLT)	50～80	751
	NB-P, NS-P (PLATE)	40～60	752

Picture	Item Name	Load Capacity (kgf)	Page
	NB, NS (THREADED BOLT)	40～60	752
	T-P, TSD-P (PLATE)	80～100	753
	T-B, TSD-B (THREADED BOLT)	80～100	753

SINGLE WHEEL CASTERS

Picture	Item Name	Load Capacity (kgf)	Page
	SUS-SJ (PLATE) STAINLESS 304 STEEL	50～160	758
	SUS-SK (PLATE) STAINLESS 304 STEEL	70～160	759
	PLN50P (PLATE)	80	760
	PLN50N (THREADED BOLT)	80	760

DUAL BRAKE SYSTEM CASTERS

Picture	Item Name	Load Capacity (kgf)	Page
	MX-125P (PLATE)	120	754
	MX-125N (THREADED BOLT)	120	755
	EX-100P (PLATE)	100	756
	EX-100N (THREADED BOLT)	100	757

BALL CASTERS

Picture	Item Name	Load Capacity (kgf)	Page
	BM	10～40	761
	BH	10～20	761
	BHB-12	8	761
	NT	25	761
	NS	25	761

BASE

Picture	Item Name	Load Capacity (kgf)	Page
	HO500	—	762
	HS-550	—	763
	BJ610	—	764

SLIDING DOOR ROLLER

Picture	Item Name	Load Capacity (kgf)	Page
	JS, JC STAINLESS 303 STEEL	350～2800	765

LEVELING GLIDES

Picture	Item Name	Load Capacity (kgf)	Page
	MKP	120～160	766
	MKR (W/ RUBBER PAD)	40～80	766
	MKPS STAINLESS 304 STEEL	200～400	767

Picture	Item Name	Load Capacity (kgf)	Page
	MKRS (W/ RUBBER PAD) STAINLESS 304 STEEL	40～100	767
	MN	120～160	768
	TN	80～100	768
	MKR-N	60～80	769
	MKR-N32	46	769
	TG	100～180	770
	RA	80～240	770
	RP	60～622	771
	RPS STAINLESS 304 STEEL	60～160	771
	EA (PARTS SEPARABLE)	50～270	772
	SG	120～160	772
	MK8AD	60	773
	PM	120～280	773
	TN-S	140	774
	AD-501	100～140	774
	AD-502	280	775
	AD-502-P	280	775
	MKPLS STAINLESS 304 STEEL	200～340	776
	MKRLS (W/ RUBBER PAD) STAINLESS 304 STEEL	80～100	776
	MKRL (W/ RUBBER PAD)	60～80	777

Picture	Item Name	Load Capacity (kgf)	Page
	ADWS, ADWHS (W/ RUBBER PAD) STAINLESS 304 STEEL	380～1750	778
	ADW, ADWH (W/ RUBBER PAD)	340～1720	779
	ADHSK, ADHS, ADH STAINLESS 304 STEEL	3000～4500	780
	ADPS, ADP STAINLESS 304 STEEL	300～880	781
	ADRS, ADR (W/ RUBBER PAD) STAINLESS 304 STEEL	300～880	782
	ADCR (W/ RUBBER PAD)	680～1440	783
	ADCS, ADC STAINLESS 304 STEEL	300～880	783
	MDSF	204～765/4 pcs	784
	SAJ (W/ AUTOMATIC HEIGHT ADJUSTMENT)	50	788

ACCESSORIES

Picture	Item Name	Load Capacity (kgf)	Page
	FA55-FIX	—	740
	ADZS, ADZ STAINLESS 304 STEEL	—	784
	AP36 STAINLESS 304 STEEL	—	785
	AD-559	—	785
	SC-124	—	785
	AD-555	—	785
	AP5-M8	—	786
	AD-558	—	786
	AD-561	—	786

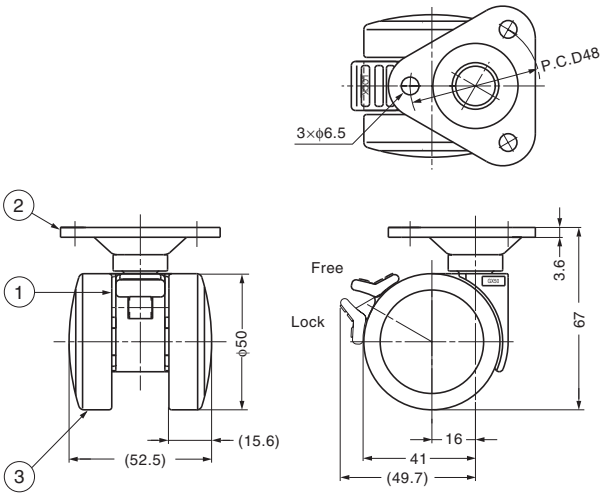
Picture	Item Name	Load Capacity (kgf)	Page
	AD-562	—	786
	AD-566	—	787
	AD-552	—	787
	AD-553	—	787
	AD-554	—	787

TWIN WHEEL CASTER (PLATE TYPE) GX50P



■Features

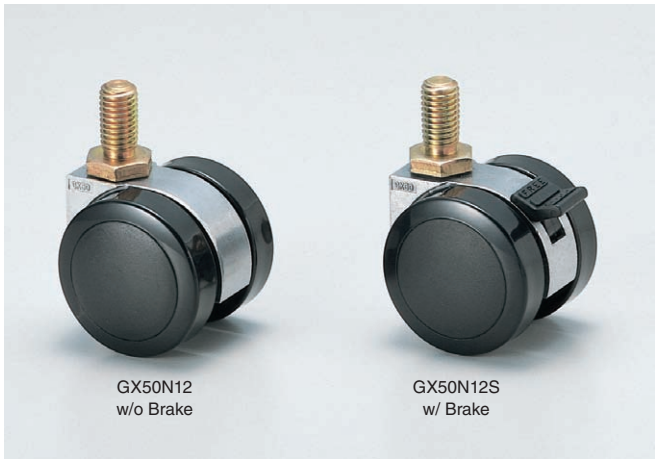
- Thanks to the light weight aluminium body, the caster is strong and smart looking.
- Twin wheel caster with excellent stability.



No.	Part Name	Material	Finish/Colour
①	Body	Aluminium Alloy	Polished
②	Plate	Steel	Yellow Zinc Chromate
③	Wheel	Polyamide (PA)	Black

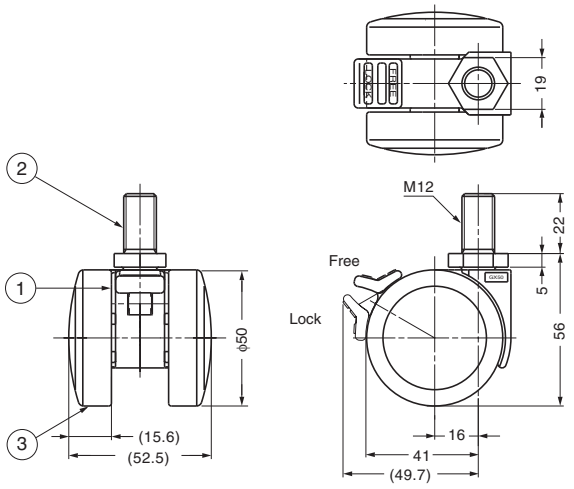
Item Code	Item Name	Type	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-133-173	GX50PS	With Brake	980 N	100 kgf	235 g	4 pcs	72 pcs
200-133-172	GX50P	Without Brake	980 N	100 kgf	230 g	4 pcs	72 pcs

TWIN WHEEL CASTER (THREADED BOLT TYPE) GX50N12



■Features

- Thanks to the light weight aluminium body, the caster is strong and smart looking.
- Twin wheel caster with excellent stability.



No.	Part Name	Material	Finish/Colour
①	Body	Aluminium Alloy	Polished
②	Threaded Bolt	Steel	Yellow Zinc Chromate
③	Wheel	Polyamide (PA)	Black

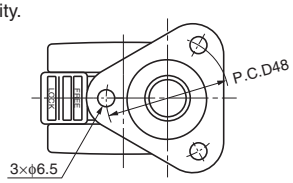
Item Code	Item Name	Type	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-133-175	GX50N12S	With Brake	980 N	100 kgf	175 g	4 pcs	72 pcs
200-133-174	GX50N12	Without Brake	980 N	100 kgf	170 g	4 pcs	72 pcs

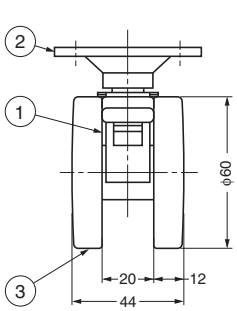
TWIN WHEEL CASTER (PLATE TYPE) GX60P

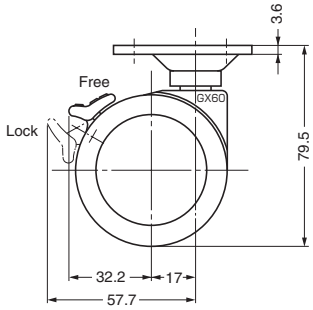


■Features

- Thanks to the light weight aluminium body, the caster is strong and smart looking.
- Twin wheel caster with excellent stability.







No.	Part Name	Material	Finish/Colour
①	Body	Aluminium Alloy	Polished
②	Plate	Steel	Zinc Chromate
③	Wheel	Polyamide (PA)	Black

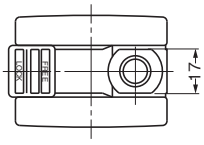
Item Code	Item Name	Type	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-133-181	GX60PS	With Brake	1470 N	150 kgf	246 g	4 pcs	60 pcs
200-130-033	GX60P	Without Brake	1470 N	150 kgf	246 g	4 pcs	60 pcs

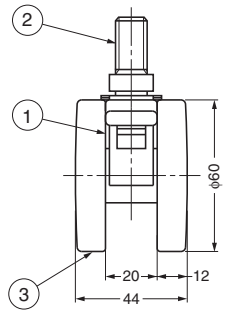
TWIN WHEEL CASTER (THREADED BOLT TYPE) GX60N12

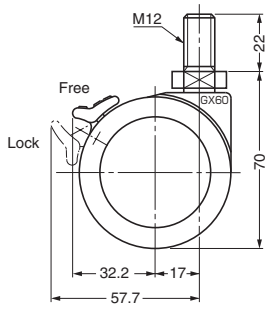


■Features

- Thanks to the light weight aluminium body, the caster is strong and smart looking.
- Twin wheel caster with excellent stability.



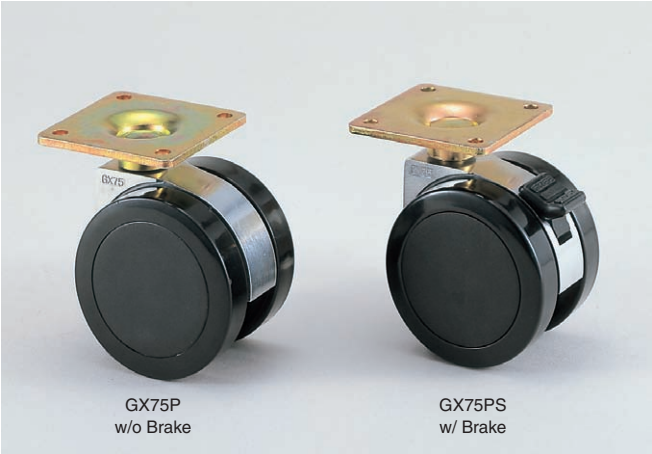




No.	Part Name	Material	Finish/Colour
①	Body	Aluminium Alloy	Polished
②	Threaded Bolt	Steel	Zinc Chromate
③	Wheel	Polyamide (PA)	Black

Item Code	Item Name	Type	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-133-183	GX60N12S	With Brake	1470 N	150 kgf	185 g	4 pcs	60 pcs
200-133-182	GX60N12	Without Brake	1470 N	150 kgf	180 g	4 pcs	60 pcs

TWIN WHEEL CASTER (PLATE TYPE) GX75P

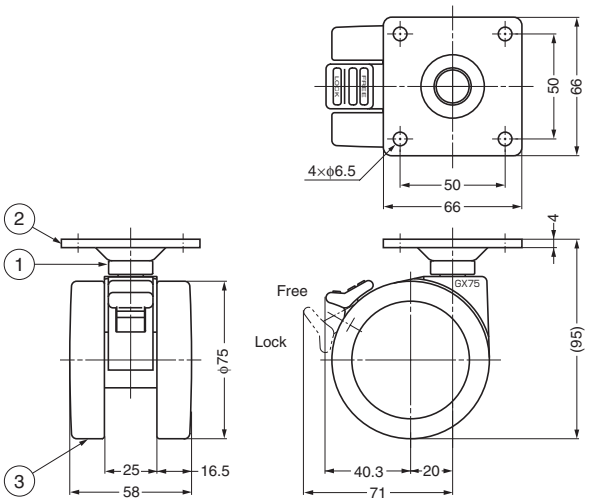


GX75P
w/o Brake

GX75PS
w/ Brake

■Features

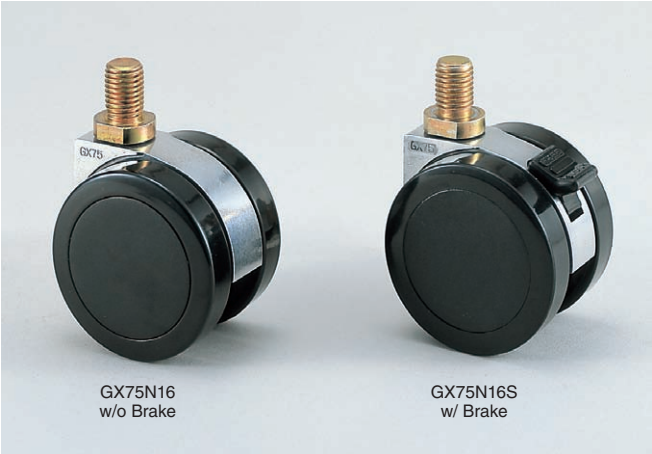
- Thanks to the light weight aluminium body, the caster is strong and smart looking.
- Twin wheel caster with excellent stability.



No.	Part Name	Material	Finish/Colour
①	Body	Aluminium Alloy	Polished
②	Plate	Steel	Yellow Zinc Chromate
③	Wheel	Polyamide (PA)	Black

Item Code	Item Name	Type	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-133-218	GX75PS	With Brake	1960 N	200 kgf	453 g	2 pcs	24 pcs
200-133-217	GX75P	Without Brake	1960 N	200 kgf	444 g	2 pcs	24 pcs

TWIN WHEEL CASTER (THREADED BOLT TYPE) GX75N16

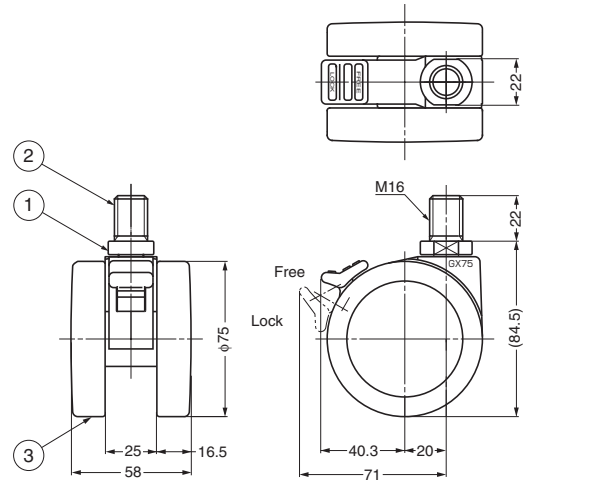


GX75N16
w/o Brake

GX75N16S
w/ Brake

■Features

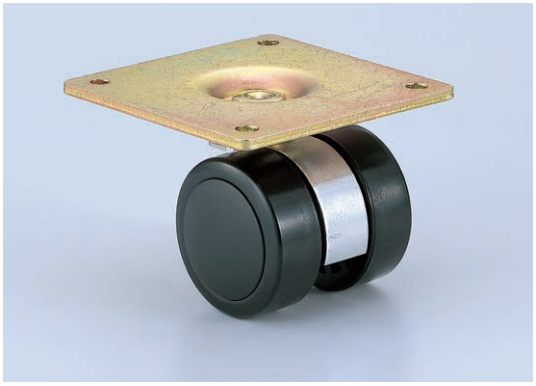
- Thanks to the light weight aluminium body, the caster is strong and smart looking.
- Twin wheel caster with excellent stability.

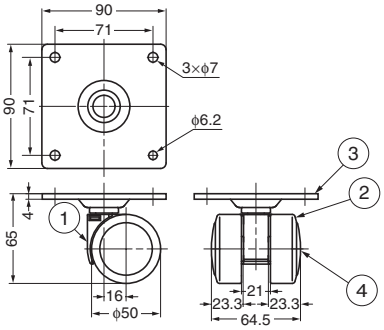


No.	Part Name	Material	Finish/Colour
①	Body	Aluminium Alloy	Polished
②	Threaded Bolt	Steel	Yellow Zinc Chromate
③	Wheel	Polyamide (PA)	Black

Item Code	Item Name	Type	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-133-220	GX75N16S	With Brake	1960 N	200 kgf	350 g	2 pcs	24 pcs
200-133-219	GX75N16	Without Brake	1960 N	200 kgf	340 g	2 pcs	24 pcs

TWIN WHEEL CASTER (PLATE TYPE) GX-W50GP





■Features

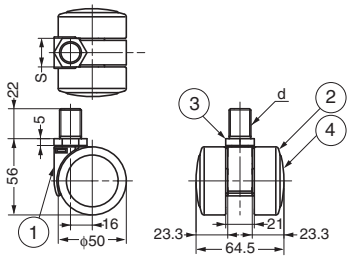
- Thanks to the light weight aluminium body, the caster is strong and smart looking.
- Twin wheel caster with excellent stability.
- Use in combination with GX-W50K (Non-swivel type) for easy handling.

No.	Part Name	Material	Finish/Colour
①	Body	Aluminium Alloy	Polished
②	Wheel	Polyacetal (POM)	Black
③	Plate	Steel	Yellow Zinc Chromate
④	Cover	Polyamide (PA)	Black

Item Code	Item Name	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-130-027	GX-W50GP	1960 N	200 kgf	442 g	2 pcs	40 pcs

TWIN WHEEL CASTER (THREADED BOLT TYPE) GX-W50GN





■Features

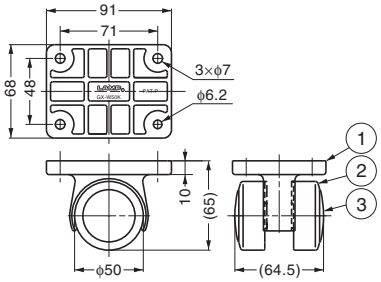
- Thanks to the light weight aluminium body, the caster is strong and smart looking.
- Twin wheel caster with excellent stability.

No.	Part Name	Material	Finish/Colour
①	Body	Aluminium Alloy	Polished
②	Wheel	Polyacetal (POM)	Black
③	Threaded Bolt	Steel	Yellow Zinc Chromate
④	Cover	Polyamide (PA)	Black

Item Code	Item Name	d	S	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-130-028	GX-W50GN12	M12	19	1960 N	200 kgf	208 g	4 pcs	80 pcs
200-130-029	GX-W50GN16	M16	21	1960 N	200 kgf	223 g	4 pcs	80 pcs

TWIN WHEEL CASTER (NON-SWIVEL PLATE TYPE) GX-W50K





■Features

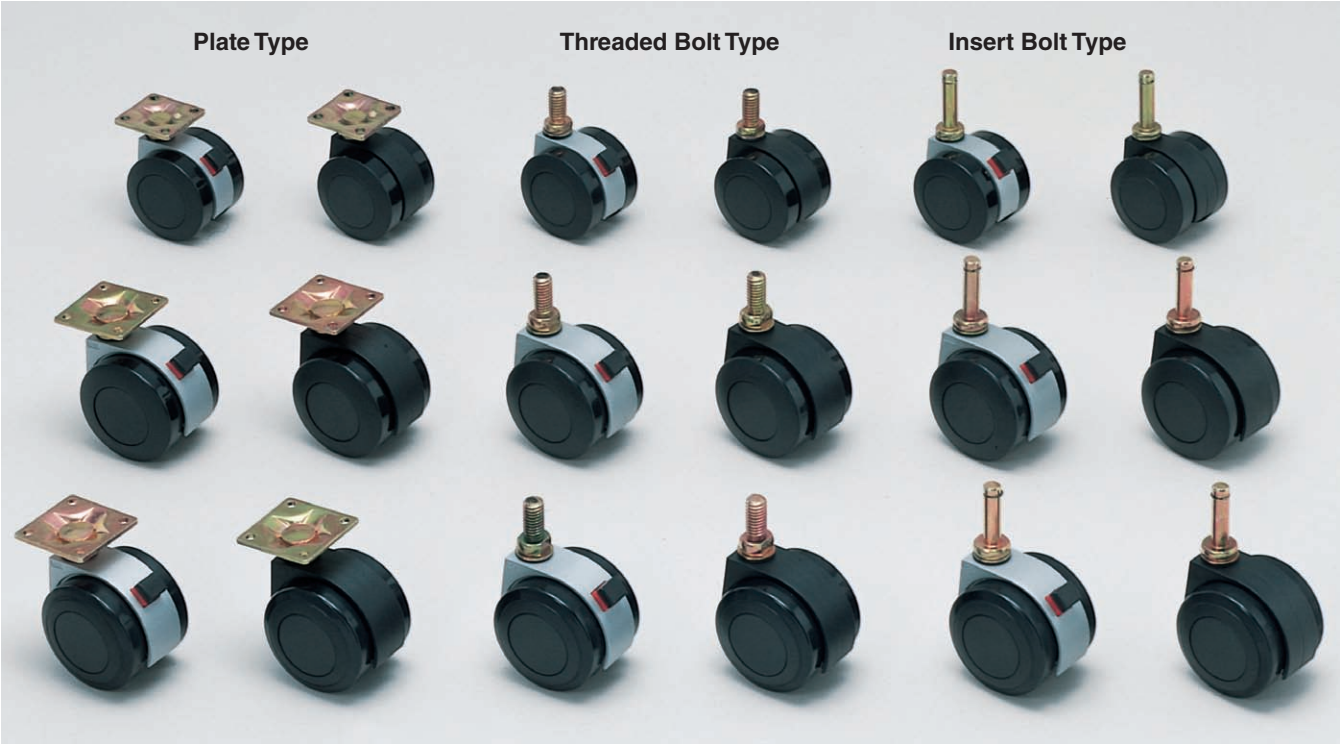
- Thanks to the light weight aluminium body, the caster is strong and smart looking.
- Twin wheel caster with excellent stability.
- Use in combination with GX-W50K (Non-swivel type) for easy handling.

No.	Part Name	Material	Finish/Colour
①	Body	Aluminium Alloy	Polished
②	Wheel	Polyacetal (POM)	Black
③	Cover	Polyamide (PA)	Black

Item Code	Item Name	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-130-032	GX-W50K	1960 N	200 kgf	328 g	2 pcs	48 pcs

CASTER

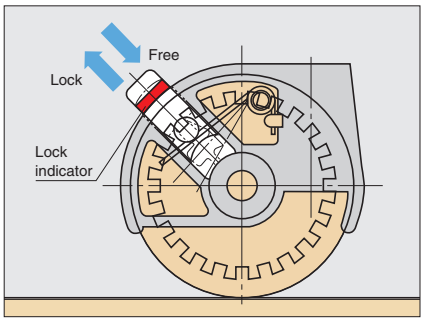
F-SERIES



■Features

- Interior casters with smooth movement, excellent durability and smart design.
- w/ Lock type is also available.

■Locking Mechanism





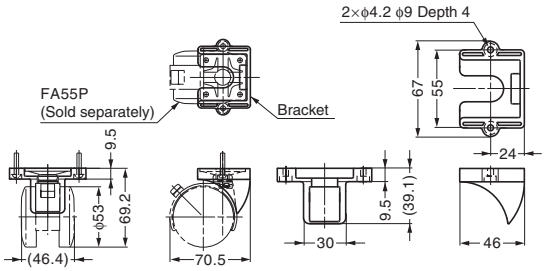
BRACKET FOR CASTER

FA55-FIX



■Features

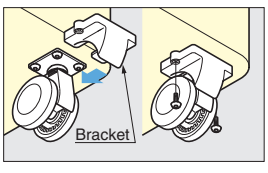
- Locks swiveling.
- For FA-55/FAU-55/FP-55/FPU-55 casters.



■Application Example



■Installation



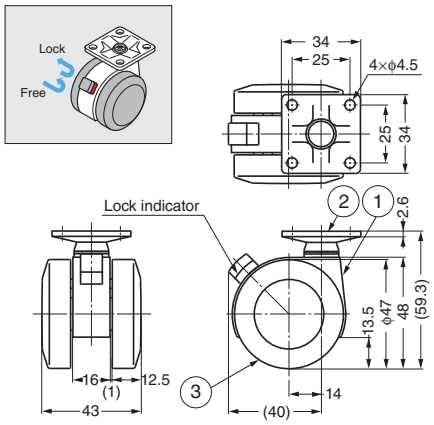
Item Code	Item Name	Material	Colour	Weight	Carton
200-012-101	FA55-FIX	Reinforced Nylon	Black	23 g	500 pcs

TWIN WHEEL CASTER (PLATE TYPE) FA45P



■**Features**

Thanks to the light weight aluminium body, the caster is strong and smart looking.



Item Code	Item Name	Type	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-133-213	FA45PSR	With Brake	490 N	50 kgf	117 g	4 pcs	100 pcs
200-133-212	FA45PR	Without Brake	490 N	50 kgf	113 g	4 pcs	100 pcs

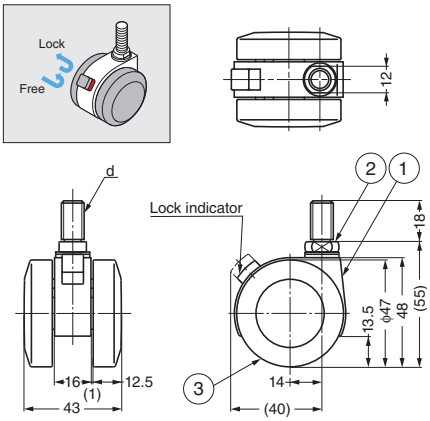
No.	Part Name	Material	Finish/Colour
①	Body	Aluminium Alloy	Silver
②	Plate	Steel	Zinc Chromate
③	Wheel	Polyamide (PA)	Black

TWIN WHEEL CASTER (THREADED BOLT TYPE) FA45N



■**Features**

Thanks to the light weight aluminium body, the caster is strong and smart looking.



Item Code	Item Name	Type	d	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-133-211	FA45N 3SR	With Brake	W3/8	490 N	50 kgf	100 g	4 pcs	100 pcs
200-133-210	FA45N 3R	Without Brake	W3/8	490 N	50 kgf	97 g	4 pcs	100 pcs
200-133-215	FA45N10SR	With Brake	M10	490 N	50 kgf	100 g	4 pcs	100 pcs
200-133-209	FA45N10R	Without Brake	M10	490 N	50 kgf	97 g	4 pcs	100 pcs

No.	Part Name	Material	Finish/Colour
①	Body	Aluminium Alloy	Silver
②	Threaded Bolt	Steel	Zinc Chromate
③	Wheel	Polyamide (PA)	Black

TWIN WHEEL CASTER (INSERT BOLT TYPE) FA45S

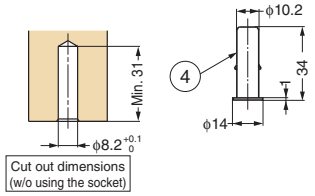


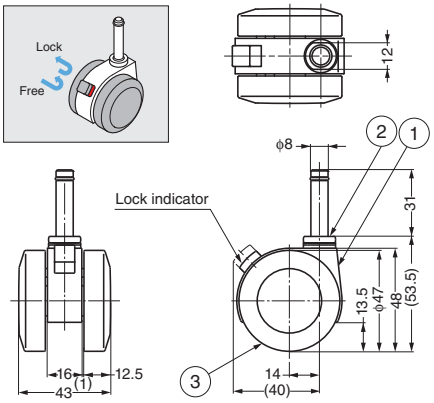
■**Features**

Thanks to the light weight aluminium body, the caster is strong and smart looking.

■**Parts Included**

Socket





Item Code	Item Name	Type	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-130-901	FA45SSR	With Brake	490 N	50 kgf	102 g	4 pcs	100 pcs
200-130-902	FA45SR	Without Brake	490 N	50 kgf	100 g	4 pcs	100 pcs

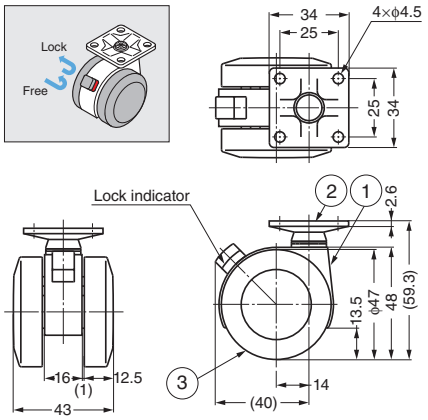
No.	Part Name	Material	Finish/Colour
①	Body	Aluminium Alloy	Silver
②	Insert Bolt	Steel	Zinc Chromate
③	Wheel	Polyamide (PA)	Black
④	Socket	Steel	Zinc Chromate

TWIN WHEEL CASTER (PLATE TYPE) FP45P



■Features

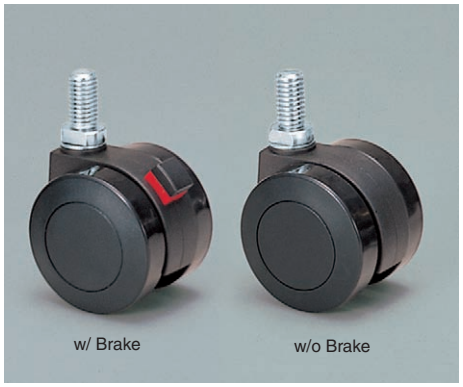
Caster with high quality polyamide body.
Excellent durability, chemical / weather / wear resistance.



Item Code	Item Name	Type	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-133-202	FP45PSR	With Brake	392 N	40 kgf	98 g	4 pcs	100 pcs
200-133-201	FP45PR	Without Brake	392 N	40 kgf	94 g	4 pcs	100 pcs

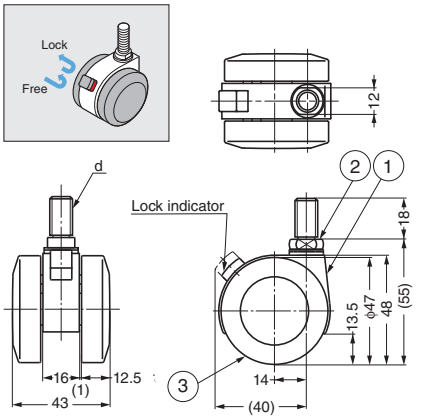
No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Plate	Steel	Zinc Chromate
③	Wheel	Polyamide (PA)	Black

TWIN WHEEL CASTER (THREADED BOLT TYPE) FP45N



■Features

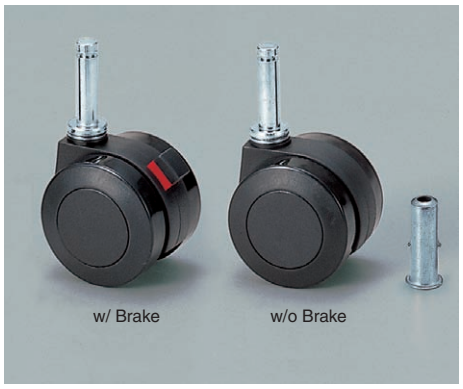
Caster with high quality polyamide body.
Excellent durability, chemical / weather / wear resistance.



Item Code	Item Name	Type	d	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-133-204	FP45N 3SR	With Brake	W3/8	392 N	40 kgf	84 g	4 pcs	100 pcs
200-133-203	FP45N 3R	Without Brake	W3/8	392 N	40 kgf	79 g	4 pcs	100 pcs
200-133-206	FP45N10SR	With Brake	M10	392 N	40 kgf	84 g	4 pcs	100 pcs
200-133-205	FP45N10R	Without Brake	M10	392 N	40 kgf	79 g	4 pcs	100 pcs

No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Threaded Bolt	Steel	Zinc Chromate
③	Wheel	Polyamide (PA)	Black

TWIN WHEEL CASTER (INSERT BOLT TYPE) FP45S

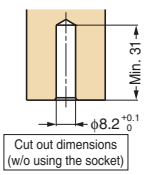


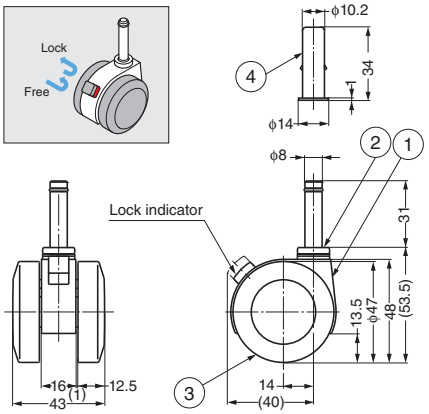
■Features

Caster with high quality polyamide body.
Excellent durability, chemical / weather / wear resistance.

■Parts Included

Socket

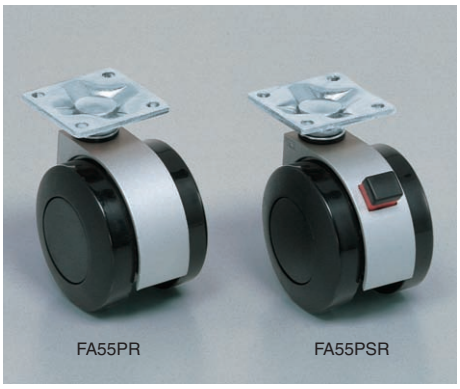




Item Code	Item Name	Type	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-130-903	FP45SSR	With Brake	392 N	40 kgf	86 g	4 pcs	100 pcs
200-130-904	FP45SR	Without Brake	392 N	40 kgf	82 g	4 pcs	100 pcs

No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Insert Bolt	Steel	Zinc Chromate
③	Wheel	Polyamide (PA)	Black
④	Socket	Steel	Zinc Chromate

TWIN WHEEL CASTER (PLATE TYPE) FA55P

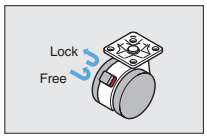


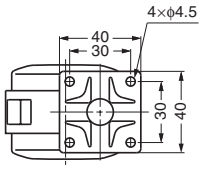
■**Features**

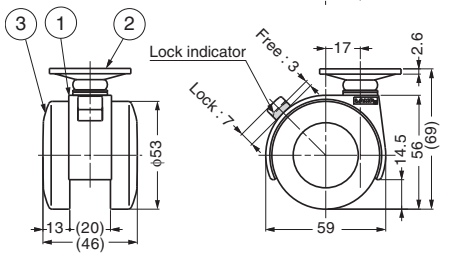
Thanks to the light weight aluminium body, the caster is strong and smart looking.



Caster bracket FA55-FIX to lock swivel available (P.740).







Item Code	Item Name	Type	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-133-258	FA55PSR	With Brake	784 N	80 kgf	176 g	4 pcs	72 pcs
200-133-263	FA55PR	Without Brake	784 N	80 kgf	171 g	4 pcs	72 pcs

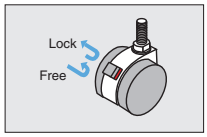
No.	Part Name	Material	Finish/Colour
①	Body	Aluminium Alloy	Silver
②	Plate	Steel	Zinc Chromate
③	Wheel	Polyamide (PA)	Black

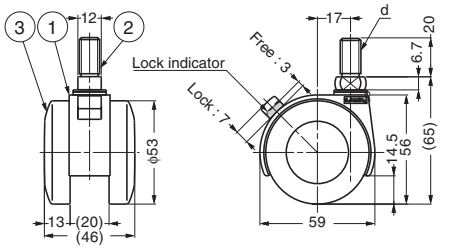
TWIN WHEEL CASTER (THREADED BOLT TYPE) FA55N



■**Features**

Thanks to the light weight aluminium body, the caster is strong and smart looking.





Item Code	Item Name	Type	d	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-133-259	FA55N 3SR	With Brake	W3/8	784 N	80 kgf	152 g	4 pcs	72 pcs
200-133-264	FA55N 3R	Without Brake	W3/8	784 N	80 kgf	147 g	4 pcs	72 pcs
200-133-260	FA55N10SR	With Brake	M10	784 N	80 kgf	152 g	4 pcs	72 pcs
200-133-265	FA55N10R	Without Brake	M10	784 N	80 kgf	147 g	4 pcs	72 pcs
200-133-261	FA55N12SR	With Brake	M12	784 N	80 kgf	152 g	4 pcs	72 pcs
200-133-266	FA55N12R	Without Brake	M12	784 N	80 kgf	147 g	4 pcs	72 pcs

No.	Part Name	Material	Finish/Colour
①	Body	Aluminium Alloy	Silver
②	Threaded Bolt	Steel	Zinc Chromate
③	Wheel	Polyamide (PA)	Black

TWIN WHEEL CASTER (INSERT BOLT TYPE) FA55S

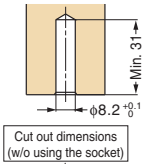


■**Features**

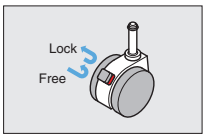
Thanks to the light weight aluminium body, the caster is strong and smart looking.

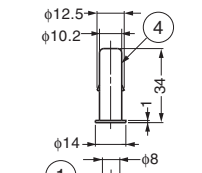
■**Parts Included**

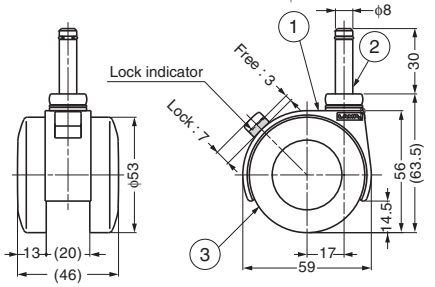
Socket



Cut out dimensions (w/o using the socket)







Item Code	Item Name	Type	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-130-905	FA55SSR	With Brake	784 N	80 kgf	157 g	4 pcs	72 pcs
200-130-906	FA55SR	Without Brake	784 N	80 kgf	152 g	4 pcs	72 pcs

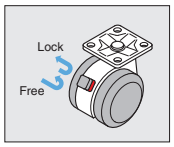
No.	Part Name	Material	Finish/Colour
①	Body	Aluminium Alloy	Silver
②	Insert Bolt	Steel	Zinc Chromate
③	Wheel	Polyamide (PA)	Black
④	Socket	Steel	Zinc Chromate

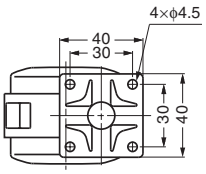
TWIN WHEEL CASTER (PLATE TYPE) FP55P

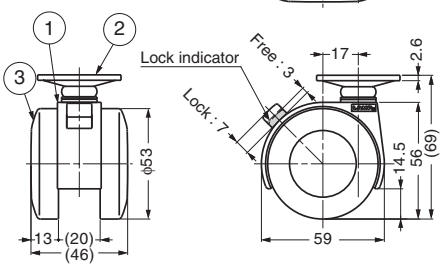


■Features

Caster with high quality polyamide body. Excellent durability, chemical / weather / wear resistance.









Caster bracket FA55-FIX to lock swivel available (P.740).

Item Code	Item Name	Type	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-133-268	FP55PSR	With Brake	490 N	50 kgf	148 g	4 pcs	72 pcs
200-133-273	FP55PR	Without Brake	490 N	50 kgf	144 g	4 pcs	72 pcs

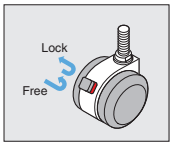
No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Plate	Steel	Zinc Chromate
③	Wheel	Polyamide (PA)	Black

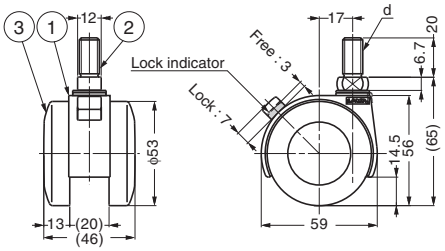
TWIN WHEEL CASTER (THREADED BOLT TYPE) FP55N



■Features

Caster with high quality polyamide body. Excellent durability, chemical / weather / wear resistance.





Item Code	Item Name	Type	d	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-133-269	FP55N 3SR	With Brake	W3/8	490 N	50 kgf	126 g	4 pcs	72 pcs
200-133-274	FP55N 3R	Without Brake	W3/8	490 N	50 kgf	121 g	4 pcs	72 pcs
200-133-270	FP55N10SR	With Brake	M10	490 N	50 kgf	126 g	4 pcs	72 pcs
200-133-275	FP55N10R	Without Brake	M10	490 N	50 kgf	121 g	4 pcs	72 pcs
200-133-271	FP55N12SR	With Brake	M12	490 N	50 kgf	126 g	4 pcs	72 pcs
200-133-276	FP55N12R	Without Brake	M12	490 N	50 kgf	121 g	4 pcs	72 pcs

No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Threaded Bolt	Steel	Zinc Chromate
③	Wheel	Polyamide (PA)	Black

TWIN WHEEL CASTER (INSERT BOLT TYPE) FP55S

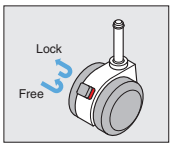


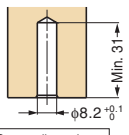
■Features

Caster with high quality polyamide body. Excellent durability, chemical / weather / wear resistance.

■Parts Included

Socket

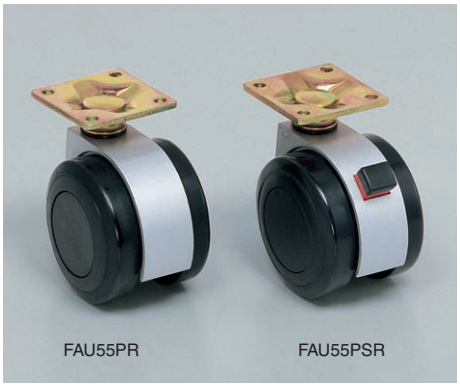




Item Code	Item Name	Type	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-130-907	FP55SSR	With Brake	490 N	50 kgf	128 g	4 pcs	72 pcs
200-130-908	FP55SR	Without Brake	490 N	50 kgf	123 g	4 pcs	72 pcs

No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Insert Bolt	Steel	Zinc Chromate
③	Wheel	Polyamide (PA)	Black
④	Socket	Steel	Zinc Chromate

TWIN WHEEL CASTER (PLATE TYPE) FAU55P

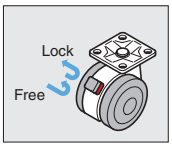


■Features

- Wheels are coated in an elastomer which absorbs vibration and gives an extra smooth and quiet ride.
- Thanks to the light weight aluminium body, the caster is strong and smart looking.



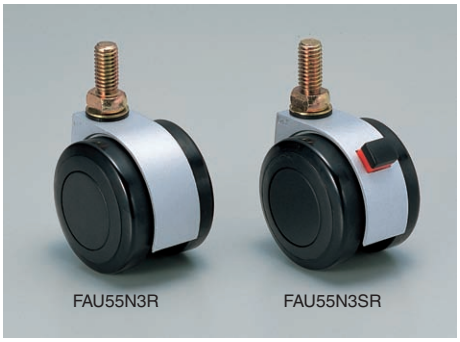
Caster bracket FA55-FIX to lock swivel available (P.740).



Item Code	Item Name	Type	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-133-278	FAU55PSR	With Brake	686 N	70 kgf	179 g	4 pcs	72 pcs
200-133-283	FAU55PR	Without Brake	686 N	70 kgf	175 g	4 pcs	72 pcs

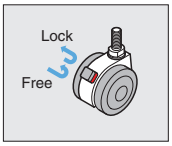
No.	Part Name	Material	Finish/Colour
①	Body	Aluminium Alloy	Silver
②	Plate	Steel	Yellow Zinc Chromate
③	Wheel	Polyamide (PA) + Elastomer (TPE)	Black

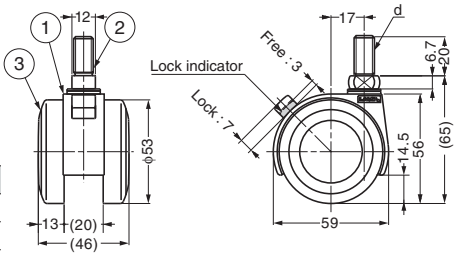
TWIN WHEEL CASTER (THREADED BOLT TYPE) FAU55N



■Features

- Wheels are coated in an elastomer which absorbs vibration and gives an extra smooth and quiet ride.
- Thanks to the light weight aluminium body, the caster is strong and smart looking.





Item Code	Item Name	Type	d	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-133-279	FAU55N 3SR	With Brake	W3/8	686 N	70 kgf	155 g	4 pcs	72 pcs
200-133-284	FAU55N 3R	Without Brake	W3/8	686 N	70 kgf	151 g	4 pcs	72 pcs
200-133-280	FAU55N10SR	With Brake	M10	686 N	70 kgf	155 g	4 pcs	72 pcs
200-133-285	FAU55N10R	Without Brake	M10	686 N	70 kgf	151 g	4 pcs	72 pcs
200-133-281	FAU55N12SR	With Brake	M12	686 N	70 kgf	155 g	4 pcs	72 pcs
200-133-286	FAU55N12R	Without Brake	M12	686 N	70 kgf	151 g	4 pcs	72 pcs

No.	Part Name	Material	Finish/Colour
①	Body	Aluminium Alloy	Silver
②	Threaded Bolt	Steel	Yellow Zinc Chromate
③	Wheel	Polyamide (PA) + Elastomer (TPE)	Black

TWIN WHEEL CASTER (INSERT BOLT TYPE) FAU55S

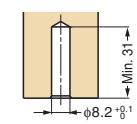


■Features

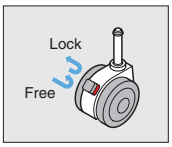
- Wheels are coated in an elastomer which absorbs vibration and gives an extra smooth and quiet ride.
- Thanks to the light weight aluminium body, the caster is strong and smart looking.

■Parts Included

Socket



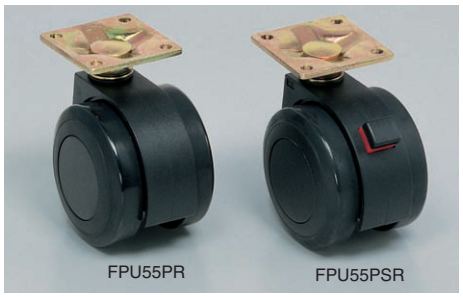
Cut out dimensions (w/o using the socket)



Item Code	Item Name	Type	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-130-909	FAU55SSR	With Brake	686 N	70 kgf	158 g	4 pcs	72 pcs
200-130-910	FAU55SR	Without Brake	686 N	70 kgf	154 g	4 pcs	72 pcs

No.	Part Name	Material	Finish/Colour
①	Body	Aluminium Alloy	Silver
②	Insert Bolt	Steel	Yellow Zinc Chromate
③	Wheel	Polyamide (PA) + Elastomer (TPE)	Black
④	Socket	Steel	Yellow Zinc Chromate

TWIN WHEEL CASTER (PLATE TYPE) FPU55P

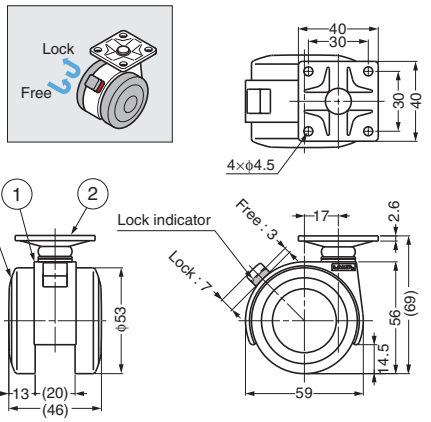




Caster bracket FA55-FIX to lock swivel available (P.740).

■Features

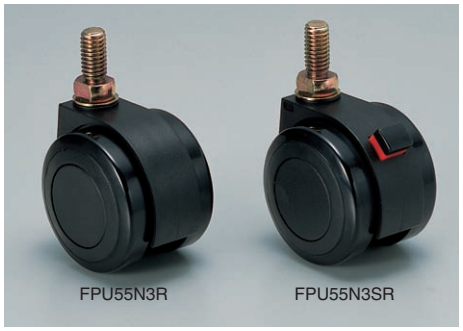
- Wheels are coated in an elastomer which absorbs vibration and gives an extra smooth and quiet ride.
- Caster with high quality polyamide body. Excellent durability, chemical / weather / wear resistance.



Item Code	Item Name	Type	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-133-288	FPU55PSR	With Brake	490 N	50 kgf	151 g	4 pcs	72 pcs
200-133-293	FPU55PR	Without Brake	490 N	50 kgf	146 g	4 pcs	72 pcs

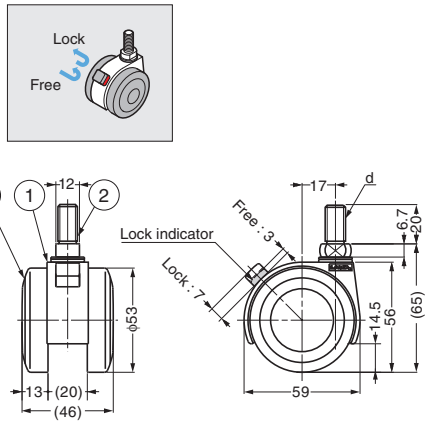
No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Plate	Steel	Yellow Zinc Chromate
③	Wheel	Polyamide (PA) + Elastomer (TPE)	Black

TWIN WHEEL CASTER (THREADED BOLT TYPE) FPU55N



■Features

- Wheels are coated in an elastomer which absorbs vibration and gives an extra smooth and quiet ride.
- Caster with high quality polyamide body. Excellent durability, chemical / weather / wear resistance.



Item Code	Item Name	Type	d	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-133-289	FPU55N 3SR	With Brake	W3/8	490 N	50 kgf	128 g	4 pcs	72 pcs
200-133-294	FPU55N 3R	Without Brake	W3/8	490 N	50 kgf	123 g	4 pcs	72 pcs
200-133-290	FPU55N10SR	With Brake	M10	490 N	50 kgf	128 g	4 pcs	72 pcs
200-133-295	FPU55N10R	Without Brake	M10	490 N	50 kgf	123 g	4 pcs	72 pcs
200-133-291	FPU55N12SR	With Brake	M12	490 N	50 kgf	128 g	4 pcs	72 pcs
200-133-296	FPU55N12R	Without Brake	M12	490 N	50 kgf	123 g	4 pcs	72 pcs

No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Threaded Bolt	Steel	Yellow Zinc Chromate
③	Wheel	Polyamide (PA) + Elastomer (TPE)	Black

TWIN WHEEL CASTER (INSERT BOLT TYPE) FPU55S

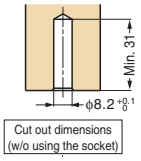


■Features

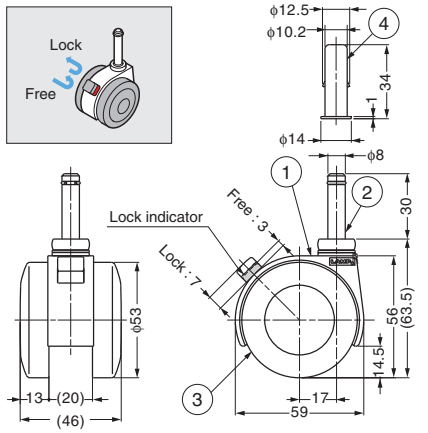
- Wheels are coated in an elastomer which absorbs vibration and gives an extra smooth and quiet ride.
- Caster with high quality polyamide body. Excellent durability, chemical / weather / wear resistance.

■Parts Included

Socket



Cut out dimensions (w/o using the socket)



Item Code	Item Name	Type	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-130-911	FPU55SSR	With Brake	490 N	50 kgf	131 g	4 pcs	72 pcs
200-130-912	FPU55SR	Without Brake	490 N	50 kgf	126 g	4 pcs	72 pcs

No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Insert Bolt	Steel	Yellow Zinc Chromate
③	Wheel	Polyamide (PA) + Elastomer (TPE)	Black
④	Socket	Steel	Yellow Zinc Chromate

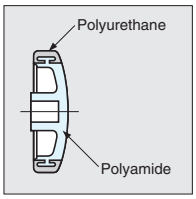
TWIN WHEEL CASTER (PLATE TYPE) BU-25P

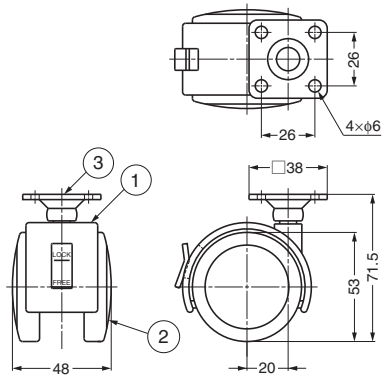


■Features

Wheels are coated in polyurethane which absorbs vibration, gives an extra smooth and quiet ride. Also, unlikely to slip.

■Cross-section Drawing

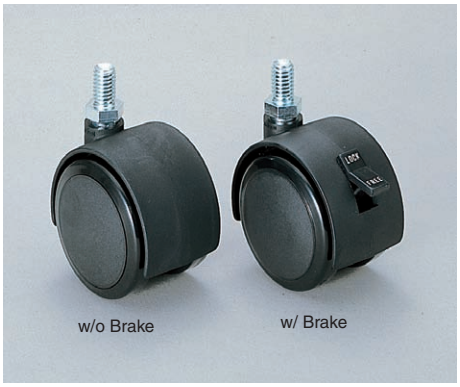




Item Code	Item Name	Type	Load Capacity N	Load Capacity kgf	Weight	Carton
200-132-047	BU-25PS	With Brake	392 N	40 kgf	157 g	120 pcs
200-132-040	BU-25P	Without Brake	392 N	40 kgf	150 g	120 pcs

No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Wheel	Polyamide (PA)	Black
②	Wheel	Polyurethane (PUR)	Black
③	Plate	Steel	Clear Zinc Chromate

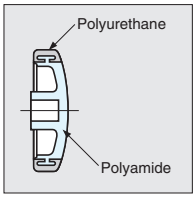
TWIN WHEEL CASTER (THREADED BOLT TYPE) BU-25N

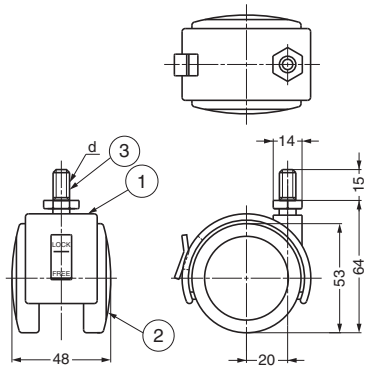


■Features

Wheels are coated in polyurethane which absorbs vibration and gives an extra smooth and quiet ride. Also, unlikely to slip.

■Cross-section Drawing





Item Code	Item Name	Type	d	Load Capacity N	Load Capacity kgf	Weight	Carton
200-132-045	BU-25N8S	With Brake	M8	392 N	40 kgf	125 g	150 pcs
200-132-042	BU-25N8	Without Brake	M8	392 N	40 kgf	118 g	150 pcs
200-132-046	BU-25N3S	With Brake	W3/8	392 N	40 kgf	126 g	150 pcs
200-132-043	BU-25N3	Without Brake	W3/8	392 N	40 kgf	119 g	150 pcs

No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Wheel	Polyamide (PA)	Black
②	Wheel	Polyurethane (PUR)	Black
③	Threaded Bolt	Steel	Clear Zinc Chromate

TWIN WHEEL CASTER (INSERT BOLT TYPE) BU-25S



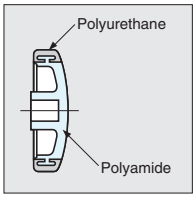
■Features

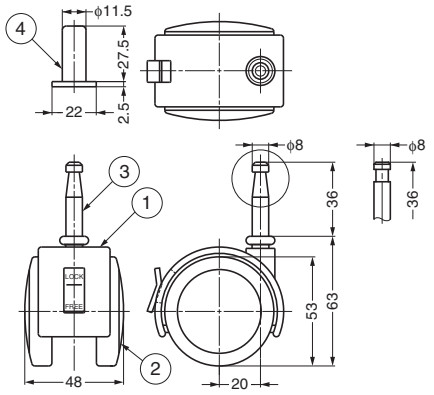
Wheels are coated in polyurethane which absorbs vibration and gives an extra smooth and quiet ride. Also, unlikely to slip.

■Parts Included

Socket

■Cross-section Drawing



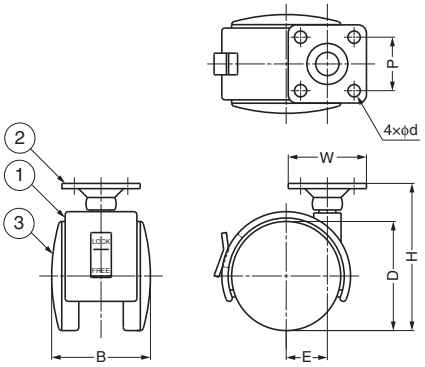


Item Code	Item Name	Type	Load Capacity N	Load Capacity kgf	Weight	Carton
200-132-048	BU-25SS	With Brake	392 N	40 kgf	132 g	140 pcs
200-132-044	BU-25S	Without Brake	392 N	40 kgf	125 g	140 pcs

No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Wheel	Polyamide (PA)	Black
②	Wheel	Polyurethane (PUR)	Black
③	Insert Bolt	Steel	Clear Zinc Chromate
④	Socket	Polyethylene (PE)	–

TWIN WHEEL CASTER (PLATE TYPE) BR-20P, BR-25P

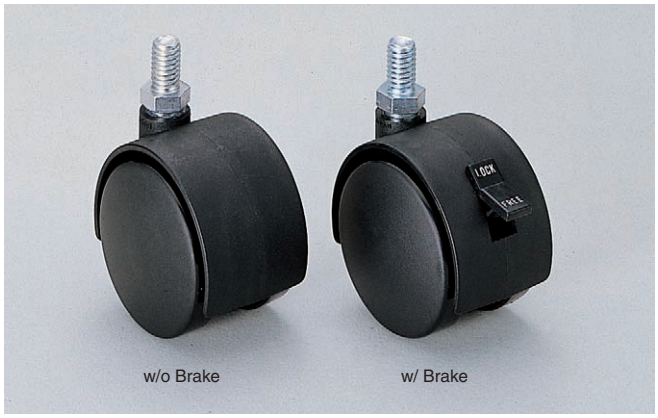


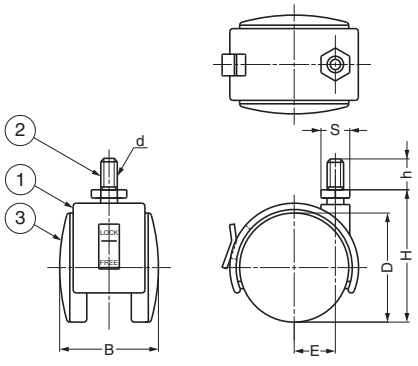


No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Plate	Steel	Clear Zinc Chromate
③	Wheel	Polyamide (PA)	Black

Item Code	Item Name	Type	D	H	B	W	P	E	d	Load Capacity N	Load Capacity kgf	Weight	Carton
200-132-028	BR-20PS	With Brake	45	61.5	42	38	26	16	6	294 N	30 kgf	104 g	200 pcs
200-132-022	BR-20P	Without Brake	45	61.5	42	38	26	16	6	294 N	30 kgf	95 g	200 pcs
200-132-038	BR-25PS	With Brake	53	71.5	48	38	26	20	6	392 N	40 kgf	149 g	120 pcs
200-132-032	BR-25P	Without Brake	53	71.5	48	38	26	20	6	392 N	40 kgf	138 g	120 pcs

TWIN WHEEL CASTER (THREADED BOLT TYPE) BR-20N, BR-25N

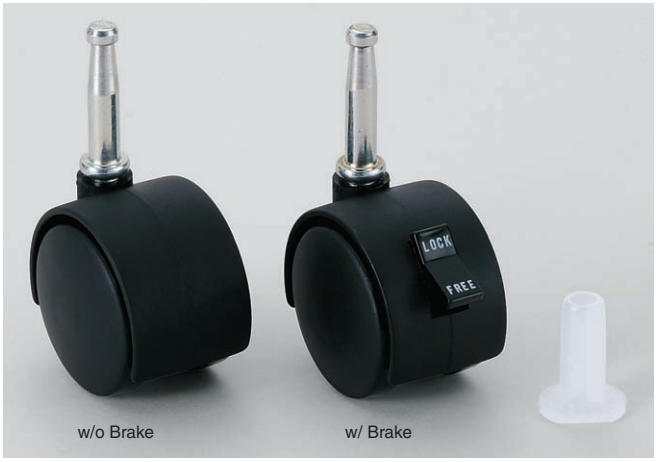




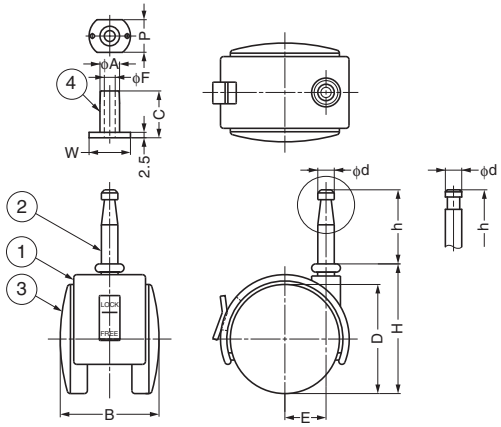
No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Threaded Bolt	Steel	Clear Zinc Chromate
③	Wheel	Polyamide (PA)	Black

Item Code	Item Name	Type	D	H	h	B	E	S	d	Load Capacity N	Load Capacity kgf	Weight	Carton
200-132-026	BR-20N8S	With Brake	45	54	15	42	16	14	M8	294 N	30 kgf	79 g	200 pcs
200-132-020	BR-20N8	Without Brake	45	54	15	42	16	14	M8	294 N	30 kgf	69 g	200 pcs
200-132-036	BR-25N8S	With Brake	53	64	15	48	20	14	M8	392 N	40 kgf	117 g	150 pcs
200-132-030	BR-25N8	Without Brake	53	64	15	48	20	14	M8	392 N	40 kgf	106 g	150 pcs
200-132-037	BR-25N3S	With Brake	53	64	15	48	20	14	W3/8	392 N	40 kgf	119 g	150 pcs
200-132-031	BR-25N3	Without Brake	53	64	15	48	20	14	W3/8	392 N	40 kgf	108 g	150 pcs

TWIN WHEEL CASTER (INSERT BOLT TYPE) BR-20S, BR-25S



■Parts Included
Socket

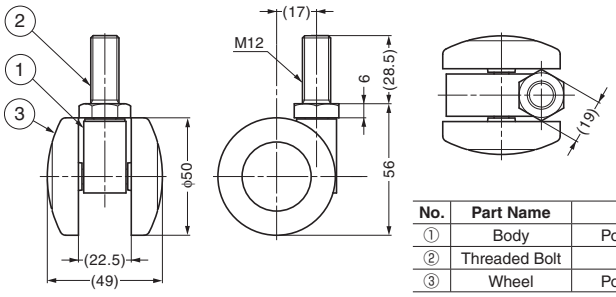


No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Insert Bolt	Steel	Clear Zinc Chromate
③	Wheel	Polyamide (PA)	Black
④	Socket	Polyethylene (PE)	—

Item Code	Item Name	Type	D	H	h	B	E	d	A	W	C	F	P	Load Capacity N	Load Capacity kgf	Weight	Carton
200-935-963	BR-20SS	With Brake	45	53	36	42	16	8	11.5	22	30	7	17	294 N	30 kgf	85 g	200 pcs
200-132-025	BR-20S	Without Brake	45	53	36	42	16	8	11.5	22	30	7	17	294 N	30 kgf	75 g	200 pcs
200-936-244	BR-25SS	With Brake	53	63	36	48	20	8	11.5	22	30	7	17	392 N	40 kgf	124 g	140 pcs
200-132-035	BR-25S	Without Brake	53	63	36	48	20	8	11.5	22	30	7	17	392 N	40 kgf	113 g	140 pcs

TWIN WHEEL CASTER (THREADED BOLT TYPE) PT-50N12



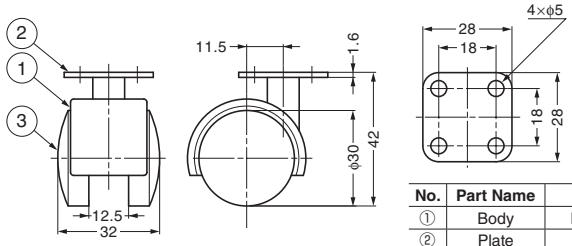


No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Threaded Bolt	Steel	Nickel
③	Wheel	Polyamide (PA)	Black

Item Code	Item Name	Load Capacity N	Load Capacity kgf	Weight	Carton
200-013-011	PT-50N12	500 N	51 kgf	104 g	100 pcs

TWIN WHEEL CASTER (PLATE TYPE) PT-30P





No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Plate	Steel	Nickel
③	Wheel	Polyamide (PA)	Black

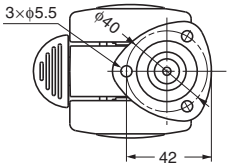
Item Code	Item Name	Load Capacity N	Load Capacity kgf	Weight	Carton
200-013-009	PT-30P	200 N	20.4 kgf	34 g	400 pcs

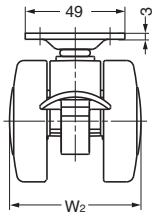
TWIN WHEEL CASTER (PLATE TYPE) JP-50BKP, JP-60BKP

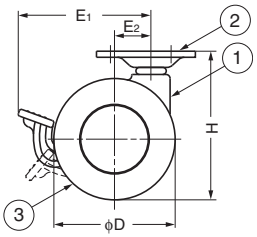


■Remarks

Caster with high quality polyamide body. Excellent durability, chemical / weather / wear resistance.







No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Plate	Steel	Yellow Zinc Chromate
③	Wheel	Polyamide (PA)	Black

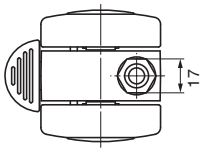
Item Code	Item Name	Type	D	E_1	E_2	H	W_2	Load Capacity N	Load Capacity kgf	Weight	Carton
200-130-374	JPB-50BKP	With Brake	50	55	15	62	57	490 N	50 kgf	157 g	100 pcs
200-130-373	JP-50BKP	Without Brake	50	55	15	62	57	490 N	50 kgf	151 g	100 pcs
200-130-378	JPB-60BKP	With Brake	60	66	18	73	65	588 N	60 kgf	204 g	100 pcs
200-130-377	JP-60BKP	Without Brake	60	66	18	73	65	588 N	60 kgf	192 g	100 pcs

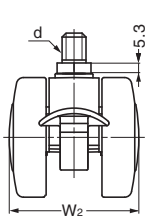
TWIN WHEEL CASTER (THREADED BOLT TYPE) JP-50BKT, JP-60BKT

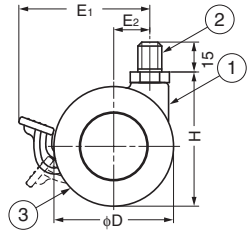


■Remarks

Caster with high quality polyamide body. Excellent durability, chemical / weather / wear resistance.



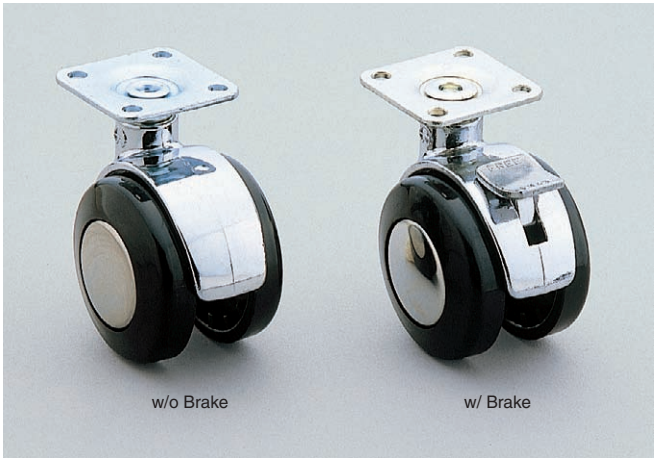


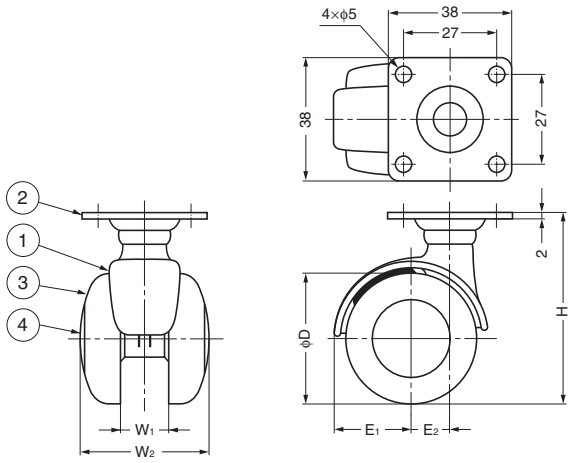


No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Threaded Bolt	Steel	Yellow Zinc Chromate
③	Wheel	Polyamide (PA)	Black

Item Code	Item Name	Type	D	E_1	E_2	H	W_2	d	Load Capacity N	Load Capacity kgf	Weight	Carton
200-130-372	JPB-50BKT	With Brake	50	55	15	56	57	M10	490 N	50 kgf	126 g	100 pcs
200-130-371	JP-50BKT	Without Brake	50	55	15	56	57	M10	490 N	50 kgf	121 g	100 pcs
200-130-376	JPB-60BKT	With Brake	60	66	18	67	65	M12×1.25	588 N	60 kgf	175 g	100 pcs
200-130-375	JP-60BKT	Without Brake	60	66	18	67	65	M12×1.25	588 N	60 kgf	164 g	100 pcs

TWIN WHEEL CASTER (PLATE TYPE) DB-P, DS-P

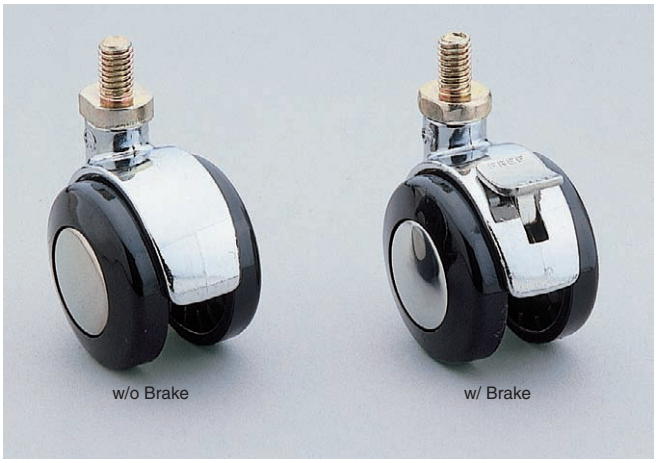


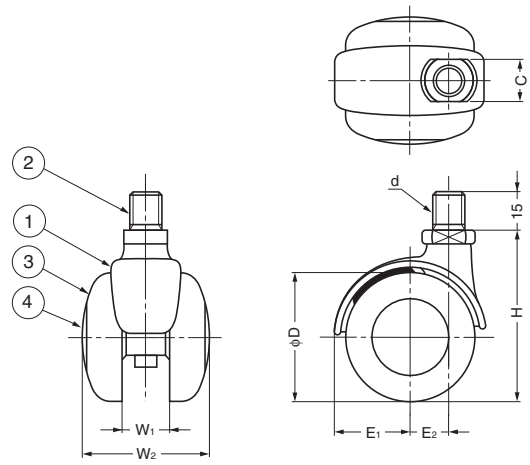


No.	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy (ZDC)	Chrome
②	Plate	Steel	Clear Zinc Chromate
③	Wheel	Polyamide (PA)	Black
④	Cover	Stainless Steel (SUS430)	—

Item Code	Item Name	Type	D	W_1	W_2	H	E_1	E_2	Load Capacity N	Load Capacity kgf	Weight	Carton
200-132-506	DB-40P	With Brake	40.5	15	39.5	58.5	27	12.5	490 N	50 kgf	130 g	120 pcs
200-132-505	DS-40P	Without Brake	40.5	15	39.5	58.5	23.5	12.5	490 N	50 kgf	117 g	120 pcs
200-132-510	DB-50P	With Brake	50.5	18	46	71.5	33.5	17	784 N	80 kgf	210 g	100 pcs
200-132-509	DS-50P	Without Brake	50.5	18	46	71.5	29	17	784 N	80 kgf	196 g	100 pcs

TWIN WHEEL CASTER (THREADED BOLT TYPE) DB, DS



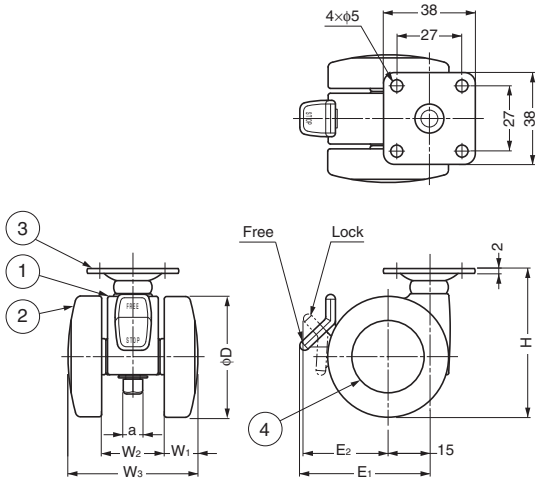


Item Code	Item Name	Type	D	W_1	W_2	H	C	d	E_1	E_2	Load Capacity	Load Capacity	Weight	Carton
200-133-184	DB-40- 3	With Brake	40.5	15	39.5	53.5	14	W3/8	27	12.5	490 N	50 kgf	120 g	120 pcs
200-132-504	DS-40- 3	Without Brake	40.5	15	39.5	53.5	14	W3/8	23.5	12.5	490 N	50 kgf	107 g	120 pcs
200-943-860	DB-40- 8	With Brake	40.5	15	39.5	53.5	14	M8	27	12.5	490 N	50 kgf	120 g	120 pcs
200-943-859	DS-40- 8	Without Brake	40.5	15	39.5	53.5	14	M8	23.5	12.5	490 N	50 kgf	107 g	120 pcs
200-132-502	DB-40-10	With Brake	40.5	15	39.5	53.5	14	M10	27	12.5	490 N	50 kgf	120 g	120 pcs
200-132-501	DS-40-10	Without Brake	40.5	15	39.5	53.5	14	M10	23.5	12.5	490 N	50 kgf	107 g	120 pcs
200-132-508	DB-50- 3	With Brake	50.5	18	46	67.5	17	W3/8	33.5	17	784 N	80 kgf	204 g	100 pcs
200-132-507	DS-50- 3	Without Brake	50.5	18	46	67.5	17	W3/8	29	17	784 N	80 kgf	190 g	100 pcs
200-943-866	DB-50- 8	With Brake	50.5	18	46	67.5	17	M8	33.5	17	784 N	80 kgf	204 g	100 pcs
200-943-865	DS-50- 8	Without Brake	50.5	18	46	67.5	17	M8	29	17	784 N	80 kgf	190 g	100 pcs
200-943-868	DB-50-10	With Brake	50.5	18	46	67.5	17	M10	33.5	17	784 N	80 kgf	204 g	100 pcs
200-943-867	DS-50-10	Without Brake	50.5	18	46	67.5	17	M10	29	17	784 N	80 kgf	190 g	100 pcs

No.	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy (ZDC)	Chrome
②	Threaded Bolt	Steel	Metric Screw Thread: Clear Zinc Chromate Inch Screw Thread: Yellow Zinc Chromate
③	Wheel	Polyamide (PA)	Black
④	Cover	Stainless Steel (SUS430)	—

TWIN WHEEL CASTER (PLATE TYPE) NB-P, NS-P



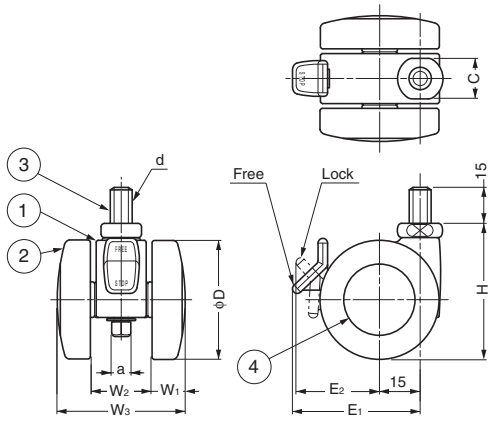


No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Wheel	Polyamide (PA)	Black
③	Plate	Steel	Clear Zinc Chromate
④	Wheel Cap	Stainless Steel (SUS430)	Plain

Item Code	Item Name	Type	D	H	E_1	E_2	W_1	W_2	W_3	a	Load Capacity N	Load Capacity kgf	Weight	Carton
200-133-148	NB-40P	With Brake	40	49	48	32	12	21	45	7	392 N	40 kgf	89 g	200 pcs
200-132-500	NS-40P	Without Brake	40	49	—	—	12	21	45	7	392 N	40 kgf	88 g	200 pcs
200-132-515	NB-50P	With Brake	50	61	52	36	14	25	53	8	588 N	60 kgf	132 g	120 pcs
200-132-514	NS-50P	Without Brake	50	61	—	—	14	25	53	8	588 N	60 kgf	128 g	120 pcs

TWIN WHEEL CASTER (THREADED BOLT TYPE) NB, NS

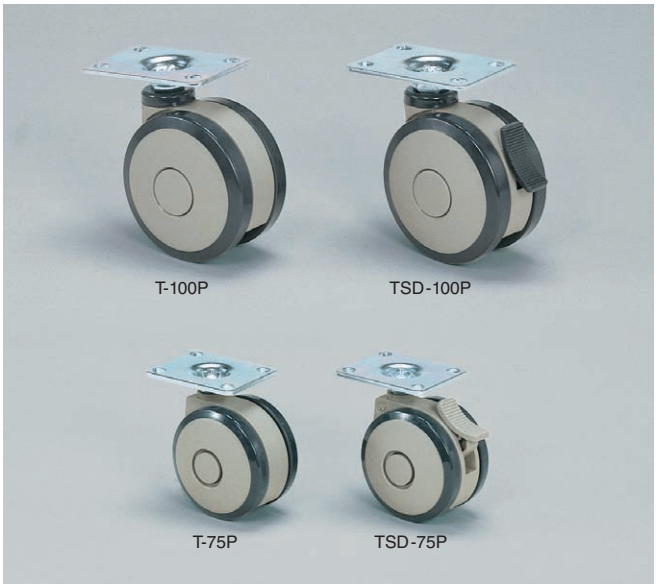




No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Wheel	Polyamide (PA)	Black
③	Threaded Bolt	Steel	Metric Screw Thread: Clear Zinc Chromate Inch Screw Thread: Yellow Zinc Chromate
④	Wheel Cap	Stainless Steel (SUS430)	Plain

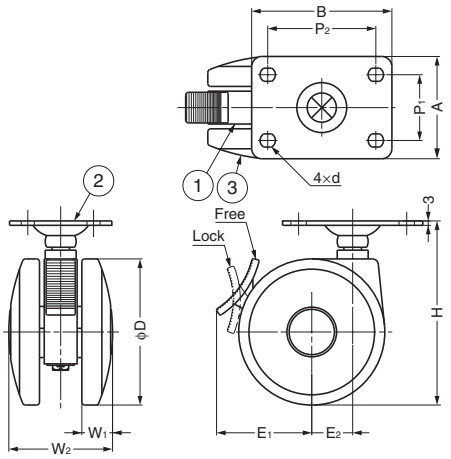
Item Code	Item Name	Type	D	H	E_1	E_2	W_1	W_2	W_3	C	d	a	Load Capacity N	Load Capacity kgf	Weight	Carton
200-132-517	NB-40- 3	With Brake	40	45	48	32	12	21	45	14	W3/8	7	392 N	40 kgf	76 g	200 pcs
200-132-511	NS-40- 3	Without Brake	40	45	—	—	12	21	45	14	W3/8	7	392 N	40 kgf	73 g	200 pcs
200-943-844	NB-40- 8	With Brake	40	45	48	32	12	21	45	14	M8	7	392 N	40 kgf	73 g	200 pcs
200-943-843	NS-40- 8	Without Brake	40	45	—	—	12	21	45	14	M8	7	392 N	40 kgf	70 g	200 pcs
200-132-516	NB-40-10	With Brake	40	45	48	32	12	21	45	14	M10	7	392 N	40 kgf	76 g	200 pcs
200-132-503	NS-40-10	Without Brake	40	45	—	—	12	21	45	14	M10	7	392 N	40 kgf	76 g	200 pcs
200-132-513	NB-50- 3	With Brake	50	58	52	36	14	25	53	17	W3/8	8	588 N	60 kgf	128 g	120 pcs
200-132-512	NS-50- 3	Without Brake	50	58	—	—	14	25	53	17	W3/8	8	588 N	60 kgf	117 g	120 pcs
200-943-850	NB-50- 8	With Brake	50	58	52	36	14	25	53	17	M8	8	588 N	60 kgf	121 g	120 pcs
200-943-849	NS-50- 8	Without Brake	50	58	—	—	14	25	53	17	M8	8	588 N	60 kgf	115 g	120 pcs
200-943-852	NB-50-10	With Brake	50	58	52	36	14	25	53	17	M10	8	588 N	60 kgf	129 g	120 pcs
200-943-851	NS-50-10	Without Brake	50	58	—	—	14	25	53	17	M10	8	588 N	60 kgf	119 g	120 pcs

TWIN WHEEL CASTER (PLATE TYPE) T-P, TSD-P



■Features

- Easy operation to lock on both wheel and swivel in one step.
- Wheels are coated in polyurethane which absorbs vibration, gives an extra smooth and quiet ride.



No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Light Grey
②	Plate	Steel	Clear Zinc Chromate
③	Wheel	Polyamide (PA) + Polyurethane (PUR)	Light Grey

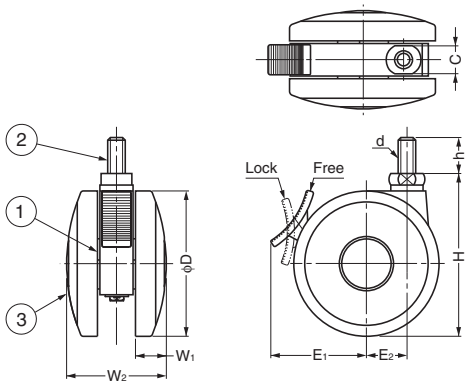
Item Code	Item Name	Type	D	W1	W2	H	A	B	P1	P2	E1	E2	d	Load Capacity N	Load Capacity kgf	Weight	Carton
200-130-167	TSD- 75P	With Brake	76	19	61	94	58	70	42	55	45	21	ϕ8.5	784 N	80 kgf	340 g	60 pcs
200-130-166	T - 75P	Without Brake	76	19	61	94	58	70	42	55	45	21	ϕ8.5	784 N	80 kgf	320 g	60 pcs
200-130-431	TSD-100P	With Brake	100	20	69	126.5	70	96	45	74	64	28	9×10.5	980 N	100 kgf	710 g	20 pcs
200-130-432	T -100P	Without Brake	100	20	69	126.5	70	96	45	74	64	28	9×10.5	980 N	100 kgf	700 g	20 pcs

TWIN WHEEL CASTER (THREADED BOLT TYPE) T-B, TSD-B



■Features

- Easy operation to lock on both wheel and swivel in one step.
- Wheels are coated in polyurethane which absorbs vibration, gives an extra smooth and quiet ride.



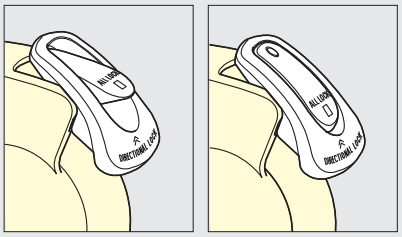
No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Light Grey
②	Threaded Bolt	Steel	Clear Zinc Chromate
③	Wheel	Polyamide (PA) + Polyurethane (PUR)	Light Grey

Item Code	Item Name	Type	D	W1	W2	H	h	E1	E2	C	d	Load Capacity N	Load Capacity kgf	Weight	Carton
200-130-169	TSD- 75B	With Brake	76	19	61	86	20	45	21	17	M10	784 N	80 kgf	260 g	60 pcs
200-130-165	T - 75B	Without Brake	76	19	61	86	20	45	21	17	M10	784 N	80 kgf	240 g	60 pcs
200-130-430	TSD-100B	With Brake	100	20	69	117.5	25	64	28	21	M12×1.25	980 N	100 kgf	565 g	20 pcs
200-130-168	T -100B	Without Brake	100	20	69	117.5	25	64	28	21	M12×1.25	980 N	100 kgf	555 g	20 pcs

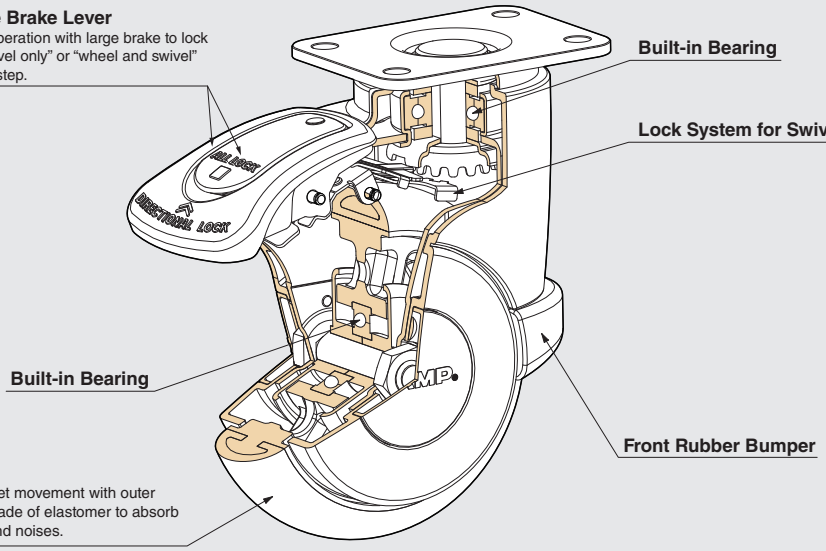
DUAL BRAKE SYSTEM CASTER MX-125

Design with Excellent User-friendliness

Large Brake Lever
Easy operation with large brake to lock on "swivel only" or "wheel and swivel" in one step.



Lock on Swivel Only　　Lock on Wheel and Swivel



Built-in Bearing
Lock System for Swivel
Built-in Bearing
Front Rubber Bumper

Wheel
Soft and quiet movement with outer periphery made of elastomer to absorb vibrations and noises.

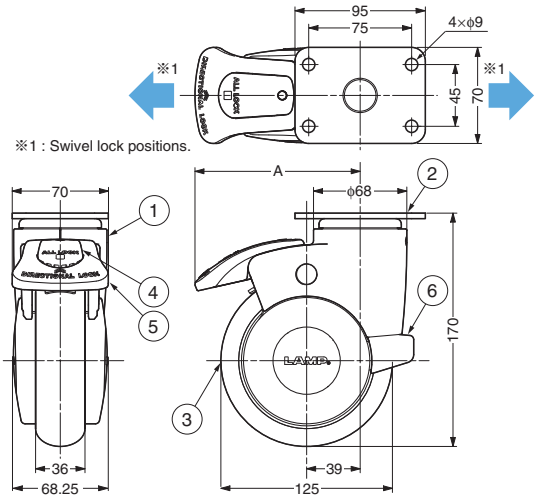
DUAL BRAKE SYSTEM CASTER (PLATE TYPE) MX-125P



w/o Brake　　w/ Brake

■Features

- Ideal for frequent use such as equipment in hospitals and laboratories.
- Large lock lever for swivel, and small lock lever for wheel.
- Works as rigid type when swivel is locked.
- Ball bearing equipped in both swivel and wheel to provide maximum smooth movement.



No.	Part Name	Material	Finish/Colour
①	Body	Polypropylene (PP)	Light Grey
②	Plate	Steel	Clear Zinc Chromate
③	Wheel	Polyamide (PA)/Polyurethane (PUR)	Dark Grey
④	Brake	Polyamide (PA)	Dark Blue
⑤	Brake	Polyamide (PA)	Light Blue
⑥	Rear Bumper	Polyurethane (PUR)	Dark Grey

Item Code	Item Name	Type	A	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-130-053	MX-125PS	With Brake	120.5	1176 N	120 kgf	1441 g	2 pcs	8 pcs
200-130-052	MX-125P	Without Brake	101.5	1176 N	120 kgf	1355 g	2 pcs	8 pcs

DUAL BRAKE SYSTEM CASTER (THREADED BOLT TYPE) MX-125N



■Features

- Ideal for frequent use such as equipment in hospitals and laboratories.
- Large lock lever for swivel, and small lock lever for wheel.
- Works as rigid type when swivel is locked.
- Ball bearing equipped in both swivel and wheel to provide maximum smooth movement.

■Application Example

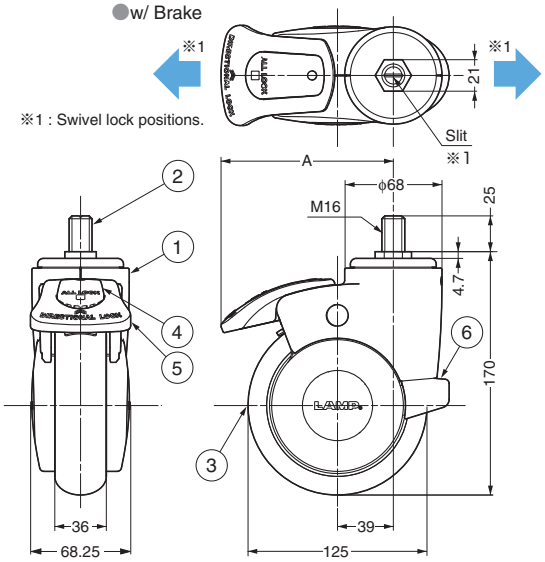
w/ Brake type is easy to switch the types of carriage as below.



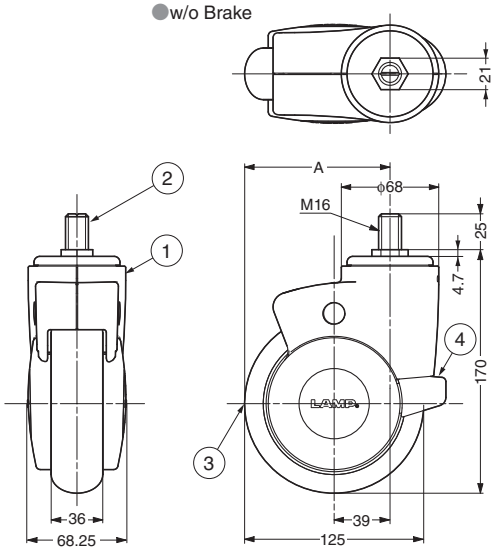
A | Ideal for tight space.

B | Easy to operate when swivels are locked.

●w/ Brake



●w/o Brake



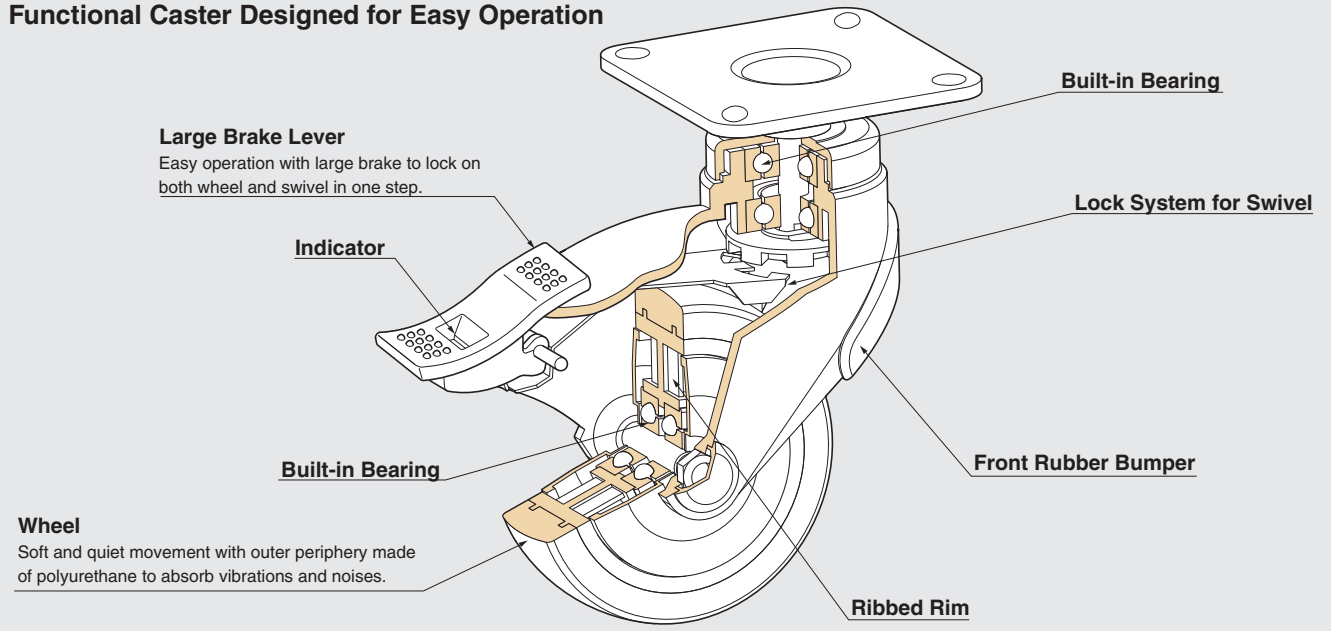
No.	Part Name	Material	Finish/Colour
①	Body	Polypropylene (PP)	Light Grey
②	Threaded Bolt	Steel	Clear Zinc Chromate
③	Wheel	Polyamide (PA)/Polyurethane (PUR)	Dark Grey
④	Brake	Polyamide (PA)	Dark Blue
⑤	Brake	Polyamide (PA)	Light Blue
⑥	Rear Bumper	Polyurethane (PUR)	Dark Grey

No.	Part Name	Material	Finish/Colour
①	Body	Polypropylene (PP)	Light Grey
②	Threaded Bolt	Steel	Clear Zinc Chromate
③	Wheel	Polyamide (PA)/Polyurethane (PUR)	Dark Grey
④	Rear Bumper	Polyurethane (PUR)	Dark Grey

Item Code	Item Name	Type	A	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-130-055	MX-125N16S	With Brake	120.5	1176 N	120 kgf	1307 g	2 pcs	8 pcs
200-130-054	MX-125N16	Without Brake	101.5	1176 N	120 kgf	1207 g	2 pcs	8 pcs

DUAL BRAKE SYSTEM CASTER EX-100

Functional Caster Designed for Easy Operation

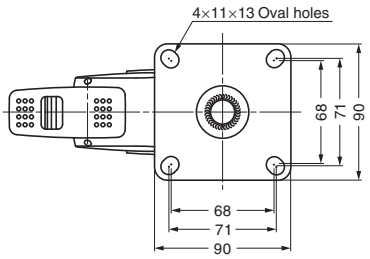


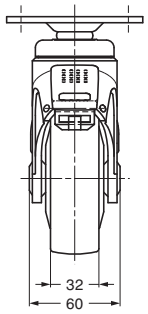
DUAL BRAKE SYSTEM CASTER (PLATE TYPE) EX-100P

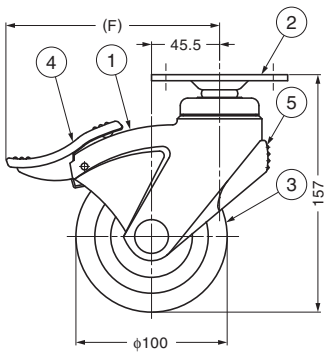


■Features

- Distinctive brake indicator for easy recognition.
- Locks both wheel and swivel.
- Large brake lever and indicator for easy operation.
- Ball bearing equipped in both swivel and wheel provides smooth movement.
- Front rubber bumper protects from impacts. W/o brake type has also back rubber bumper to protect foot.







No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Light Grey
②	Plate	Steel	Yellow Zinc Chromate
③	Wheel	Polyamide (PA)/Polyurethane (PUR)	Grey
④	Brake	Polyamide (PA)	Grey
⑤	Rear Bumper	Elastomer (TPE)	Grey

Item Code	Item Name	Type	F	Load Capacity N	Load Capacity kgf	Weight	Carton
200-132-735	EX-100PS	With Brake	139	980 N	100 kgf	899 g	20 pcs
200-132-734	EX-100P	Without Brake	105	980 N	100 kgf	867 g	20 pcs

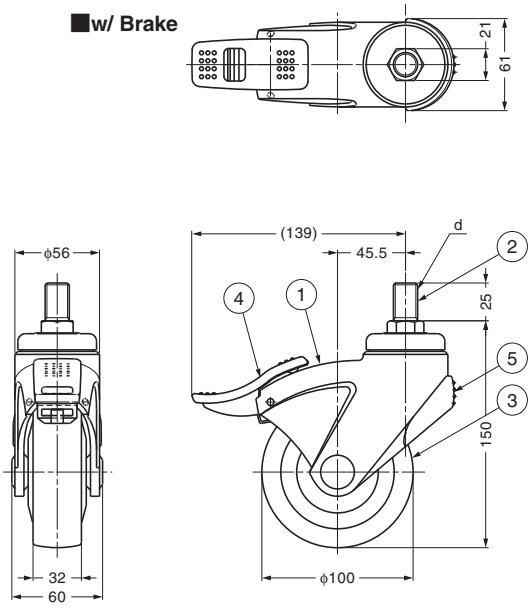
DUAL BRAKE SYSTEM CASTER (THREADED BOLT TYPE) EX-100N



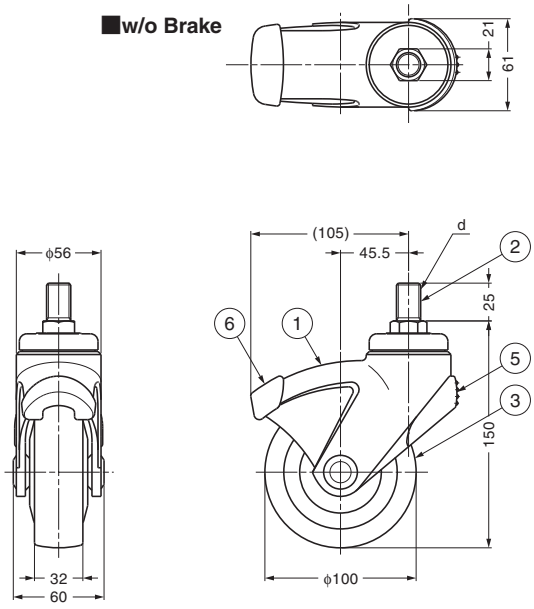
■Features

- Distinctive brake indicator for easy recognition.
- Locks both wheel and swivel.
- Large brake lever and indicator for easy operation.
- Ball bearing equipped in both swivel and wheel provides smooth movement.
- Front rubber bumper protects from impacts. W/o brake type has also back rubber bumper to protect foot.

■w/ Brake



■w/o Brake



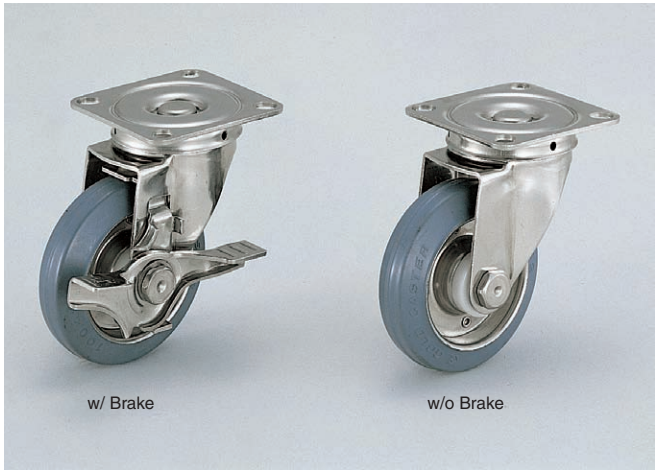
No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Light Grey
②	Threaded Bolt	Steel	Yellow Zinc Chromate
③	Wheel	Polyamide (PA)/Polyurethane (PUR)	Grey
④	Brake	Polyamide (PA)	Grey
⑤	Rear Bumper	Elastomer (TPE)	Grey
⑥	Front Bumper	Elastomer (TPE)	Grey

Item Code	Item Name	Type	d	Load Capacity N	Load Capacity kgf	Weight	Carton
200-132-736	EX-100N12S	With Brake	M12	980 N	100 kgf	785 g	20 pcs
200-132-730	EX-100N12	Without Brake	M12	980 N	100 kgf	647 g	20 pcs
200-132-733	EX-100N16S	With Brake	M16	980 N	100 kgf	698 g	20 pcs
200-132-732	EX-100N16	Without Brake	M16	980 N	100 kgf	661 g	20 pcs

STAINLESS STEEL CASTER (PLATE TYPE)

STAINLESS 304 STEEL

SUS-SJ



w/ Brake　　w/o Brake

■Features

Made of corrosion resistant 304 stainless steel. Ideal for humid environments, laboratories, kitchens etc.

■Remarks

Rubber wheel φ100, φ125, φ150 have metallic plate.



R: Rubber wheel



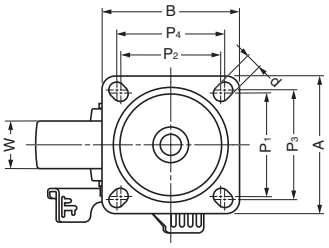
R: Rubber wheel (w/ Bearing)

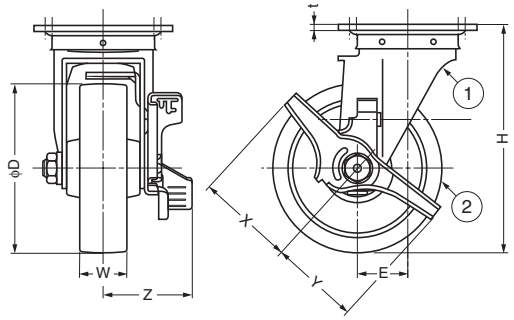


N: Polyamide wheel



UWB: Polyurethane wheel (w/ Bearing)





No.	Material	Finish/Colour
①	Stainless Steel (SUS304)	Satin
②	Polyamide (PA)	As below
	Urethane	As below

Item Code	Item Name	Type	Wheel	Wheel Colour	D	W	H	E	A	B	P1	P2	P3	P4	d	t	X	Y	Z	Load Capacity	Load Capacity	Weight	Carton
200-134-216	SUS-SJ65-S-R	With Brake	Rubber	Black	65	25	85	29	70	58	55	42	—	—	8.8	2	38	37	45	490 N	50 kgf	380 g	40 pcs
200-134-218	SUS-SJ65-S-N	With Brake	Polyamide	White	65	25	85	29	70	58	55	42	—	—	8.8	2	38	37	45	686 N	70 kgf	320 g	40 pcs
200-134-220	SUS-SJ65-S-UWB	With Brake	Urethane (With Bearing)	Ivory/Dark Brown	65	25	85	29	70	58	55	42	—	—	8.8	2	38	37	45	686 N	70 kgf	340 g	40 pcs
200-134-215	SUS-SJ65-R	Without Brake	Rubber	Black	65	25	85	29	70	58	55	42	—	—	8.8	2	—	—	—	490 N	50 kgf	340 g	50 pcs
200-134-217	SUS-SJ65-N	Without Brake	Polyamide	White	65	25	85	29	70	58	55	42	—	—	8.8	2	—	—	—	686 N	70 kgf	280 g	50 pcs
200-134-219	SUS-SJ65-UWB	Without Brake	Urethane (With Bearing)	Ivory/Dark Brown	65	25	85	29	70	58	55	42	—	—	8.8	2	—	—	—	686 N	70 kgf	300 g	50 pcs
200-134-222	SUS-SJ75-S-R	With Brake	Rubber	Black	75	25	93	28	70	58	55	42	—	—	8.8	2	38	37	45	588 N	60 kgf	420 g	40 pcs
200-134-224	SUS-SJ75-S-N	With Brake	Polyamide	White	75	25	93	28	70	58	55	42	—	—	8.8	2	38	37	45	784 N	80 kgf	360 g	40 pcs
200-134-226	SUS-SJ75-S-UWB	With Brake	Urethane (With Bearing)	Ivory/Dark Brown	75	25	93	28	70	58	55	42	—	—	8.8	2	38	37	45	784 N	80 kgf	380 g	40 pcs
200-134-221	SUS-SJ75-R	Without Brake	Rubber	Black	75	25	93	28	70	58	55	42	—	—	8.8	2	—	—	—	588 N	60 kgf	370 g	50 pcs
200-134-223	SUS-SJ75-N	Without Brake	Polyamide	White	75	25	93	28	70	58	55	42	—	—	8.8	2	—	—	—	784 N	80 kgf	310 g	50 pcs
200-134-225	SUS-SJ75-UWB	Without Brake	Urethane (With Bearing)	Ivory/Dark Brown	75	25	93	28	70	58	55	42	—	—	8.8	2	—	—	—	784 N	80 kgf	320 g	50 pcs
200-134-228	SUS-SJ100-S-R	With Brake	Rubber	Grey	100	32	132	35	90	90	68	68	71	71	11	3	55	53	60	1176 N	120 kgf	1160 g	15 pcs
200-134-230	SUS-SJ100-S-RB	With Brake	Rubber (With Bearing)	Grey	100	32	132	35	90	90	68	68	71	71	11	3	55	53	60	1176 N	120 kgf	1200 g	15 pcs
200-134-232	SUS-SJ100-S-N	With Brake	Polyamide	White	100	32	132	35	90	90	68	68	71	71	11	3	55	53	60	1176 N	120 kgf	950 g	15 pcs
200-134-236	SUS-SJ100-S-UWB	With Brake	Urethane (With Bearing)	Ivory/Dark Brown	100	32	132	35	90	90	68	68	71	71	11	3	55	53	60	1176 N	120 kgf	1070 g	15 pcs
200-134-231	SUS-SJ100-N	Without Brake	Polyamide	White	100	32	132	35	90	90	68	68	71	71	11	3	—	—	—	1176 N	120 kgf	820 g	15 pcs
200-134-235	SUS-SJ100-UWB	Without Brake	Urethane (With Bearing)	Ivory/Dark Brown	100	32	132	35	90	90	68	68	71	71	11	3	—	—	—	1176 N	120 kgf	940 g	15 pcs
200-134-242	SUS-SJ125-S-NWB	With Brake	Polyamide (With Bearing)	White	125	35	168	38	102	102	75	75	80	80	11	4	70	67	65	1470 N	150 kgf	1510 g	6 pcs
200-134-244	SUS-SJ125-S-UWB	With Brake	Urethane (With Bearing)	Ivory/Dark Brown	125	35	168	38	102	102	75	75	80	80	11	4	70	67	65	1470 N	150 kgf	1590 g	6 pcs
200-134-243	SUS-SJ125-UWB	Without Brake	Urethane (With Bearing)	Ivory/Dark Brown	125	35	168	38	102	102	75	75	80	80	11	4	—	—	—	1470 N	150 kgf	1450 g	10 pcs
200-134-252	SUS-SJ150-S-UWB	With Brake	Urethane (With Bearing)	Ivory/Dark Brown	150	38	190	41	102	102	75	75	80	80	11	4	70	67	65	1568 N	160 kgf	1780 g	6 pcs
200-134-247	SUS-SJ150-RB	Without Brake	Rubber (With Bearing)	Grey	150	40	190	41	102	102	75	75	80	80	11	4	—	—	—	1568 N	160 kgf	1900 g	8 pcs
200-134-251	SUS-SJ150-UWB	Without Brake	Urethane (With Bearing)	Ivory/Dark Brown	150	38	190	41	102	102	75	75	80	80	11	4	—	—	—	1568 N	160 kgf	1650 g	8 pcs

STAINLESS STEEL CASTER (PLATE TYPE)

STAINLESS 304 STEEL

SUS-SK



■Features

- Non-swivel (Rigid) type.
- Made of corrosion resistant 304 stainless steel. Ideal for humid environments, laboratories, kitchens etc.

■Remarks

Rubber wheel ϕ100, ϕ125, ϕ150 have metallic plate.



R: Rubber wheel



R: Rubber wheel (w/ Bearing)

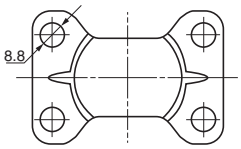


N: Polyamide wheel

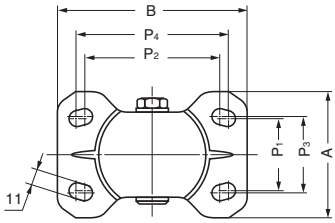


UWB: Polyurethane wheel (w/ Bearing)

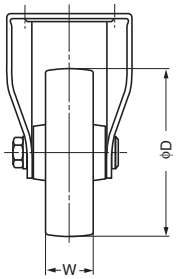
■Mounting Hole

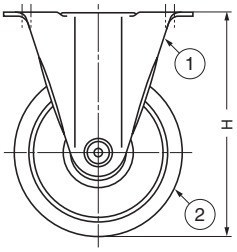


For ϕD 65・75 mm



For ϕD 100・125・150 mm



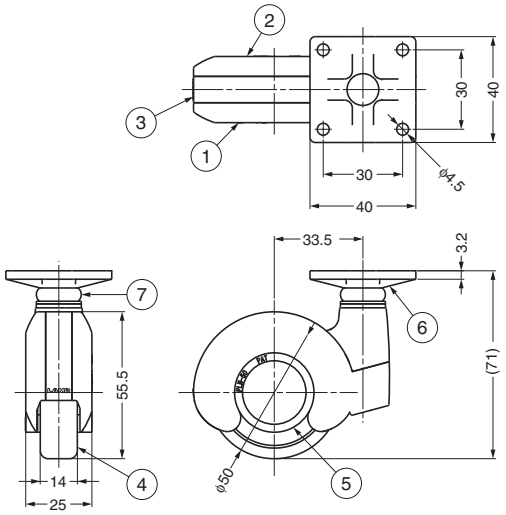


No.	Material	Finish/Colour
①	Stainless Steel (SUS304)	Satin
②	Polyamide (PA)	As below
	Urethane	As below

Item Code	Item Name	Wheel	Wheel Colour	D	W	H	A	B	P_1	P_2	P_3	P_4	Load Capacity	Load Capacity	Weight	Carton
200-134-255	SUS-SK65-N	Polyamide	White	65	25	85	47	70	28	55	—	—	686 N	70 kgf	160 g	50 pcs
200-134-257	SUS-SK65-UWB	Urethane (With Bearing)	Ivory/Dark Brown	65	25	85	47	70	28	55	—	—	686 N	70 kgf	180 g	50 pcs
200-134-259	SUS-SK75-R	Rubber	Black	75	25	93	47	70	28	55	—	—	588 N	60 kgf	260 g	50 pcs
200-134-263	SUS-SK75-UWB	Urethane (With Bearing)	Ivory/Dark Brown	75	25	93	47	70	28	55	—	—	784 N	80 kgf	220 g	50 pcs
200-134-265	SUS-SK100-R	Rubber	Grey	100	32	132	78	110	45	80	50	90	1176 N	120 kgf	780 g	15 pcs
200-134-273	SUS-SK100-UWB	Urethane (With Bearing)	Ivory/Dark Brown	100	32	132	78	110	45	80	50	90	1176 N	120 kgf	690 g	15 pcs
200-134-279	SUS-SK125-NWB	Polyamide (With Bearing)	White	125	35	168	94	140	56	100	53	112	1470 N	150 kgf	1060 g	10 pcs
200-134-281	SUS-SK125-UWB	Urethane (With Bearing)	Ivory/Dark Brown	125	38	168	94	140	56	100	53	112	1470 N	150 kgf	1140 g	10 pcs
200-134-289	SUS-SK150-UWB	Urethane (With Bearing)	Ivory/Dark Brown	150	38	190	94	140	56	100	53	112	1568 N	160 kgf	1350 g	8 pcs

DESIGN CASTER (PLATE TYPE) PLN50P



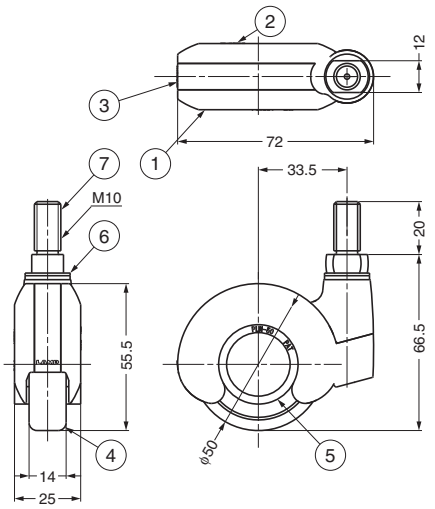


No.	Part Name	Material	Finish/Colour
①	Body (Right)	Zinc Alloy (ZDC)	As below.
②	Body (Left)		
③	Cover	Polyacetal (POM)	Dark Grey
④	Wheel	Polyamide (PA)	Black
⑤	Inner Ring		Dark Grey
⑥	Plate	Steel	Yellow Zinc Chromate
⑦	Mounting Plate	Stainless Steel (SUS304)	Mirror

Item Code	Item Name	Finish/Colour (Body)	Load Capacity N	Load Capacity kgf	Weight	Carton
200-022-220	PLN50PBL	Paint/Black	785 N	80 kgf	251 g	28 pcs
200-022-221	PLN50PCR	Chrome	785 N	80 kgf	251 g	28 pcs

DESIGN CASTER (THREADED BOLT TYPE) PLN50N





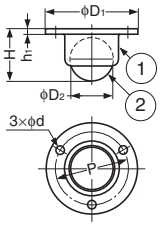
No.	Part Name	Material	Finish/Colour
①	Body (Right)	Zinc Alloy (ZDC)	As below.
②	Body (Left)		
③	Cover	Polyacetal (POM)	Dark Grey
④	Wheel	Polyamide (PA)	Black
⑤	Inner Ring		Dark Grey
⑥	Mounting Plate	Stainless Steel (SUS304)	Mirror
⑦	Threaded Bolt	Steel (SWCH)	Yellow Zinc Chromate

Item Code	Item Name	Finish/Colour (Body)	Load Capacity N	Load Capacity kgf	Weight	Carton
200-022-218	PLN50N10BL	Paint/Black	785 N	80 kgf	220 g	40 pcs
200-022-219	PLN50N10CR	Chrome	785 N	80 kgf	220 g	40 pcs

BALL CASTER (SURFACE MOUNT TYPE) BM



No.	Part Name	Material	Finish
①	Body	Steel	Brass
②	Ball	Steel	Polished

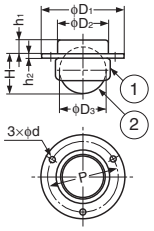


Item Code	Item Name	D1	D2	H	P	h1	d	Load Capacity		Weight	Box	Carton
200-013-982	BM-12	28.9	11.9	15.2	21.8	1.7	2.5	98 N	10 kgf	9 g	100 pcs	800 pcs
200-013-983	BM-15	33.7	14.3	19.3	26.6	2.1	2.8	118 N	12 kgf	31.5 g	8 pcs	400 pcs
200-133-020	BM-20	37	17.5	23	29.5	3	2.7	147 N	15 kgf	52 g	8 pcs	400 pcs
200-133-021	BM-25	44	22.2	27	36	3.2	2.8	245 N	25 kgf	93 g	4 pcs	200 pcs
200-133-022	BM-32	57	25.4	32	47	3.2	4.7	392 N	40 kgf	150 g	4 pcs	200 pcs

BALL CASTER (RECESSED MOUNT TYPE) BH



No.	Part Name	Material	Finish
①	Body	Steel	Brass
②	Ball	Steel	Polished

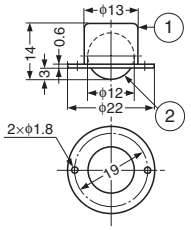


Item Code	Item Name	D1	D2	D3	H	h1	P	h2	d	Load Capacity		Weight	Box	Carton
200-133-030	BH-20	30	18.3	17.5	16	5	24	1.6	2	98 N	10 kgf	35 g	8 pcs	400 pcs
200-133-031	BH-25	41	24.7	22.2	19.5	6	36	2.3	2.6	147 N	15 kgf	73 g	4 pcs	200 pcs
200-133-032	BH-32	48	29.3	25.4	24.5	6	41	2.3	3.6	196 N	20 kgf	113 g	4 pcs	200 pcs

MINI BALL CASTER (RECESSED MOUNT TYPE) BHB-12



No.	Part Name	Material	Finish
①	Body	Steel	Clear Zinc Chromate
②	Ball	Steel	Polished



Item Code	Item Name	Load Capacity		Weight	Box	Carton
200-133-040	BHB-12	78.4 N	8 kgf	11 g	100 pcs	2,000 pcs

PLASTIC CASTER

High Corrosion Resistance

- Light and tough.
- Excellent resistance against water, chemicals and rust.
- No need of oil maintenance.

Ball Type Caster

- Allows for better control and efficient use of space unlike ordinary casters.

Easy Installation

- Both surface mount type and mortise mount type are available.

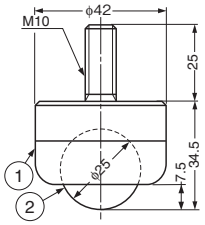
Unique and Various Application

- Can be used as conveyor belt when installed the ball up.

PLASTIC CASTER (THREADED BOLT TYPE) NT



No.	Part Name	Material	Colour
①	Body	Polyamide (PA)	Brown
②	Ball	Melamine Resin (MF)	Ivory



■Features

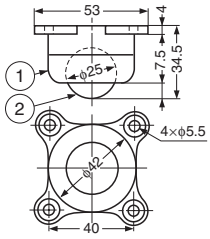
Inbuilt ball is made of steel.

Item Code	Item Name	Load Capacity		Weight	Box	Carton
200-133-010	NT-25	245 N	25 kgf	58 g	20 pcs	200 pcs

PLASTIC CASTER (SURFACE MOUNT TYPE) NS



No.	Part Name	Material	Colour
①	Body	Polyamide (PA)	Brown
②	Ball	Melamine Resin (MF)	Ivory



■Features

Inbuilt ball is made of steel.

Item Code	Item Name	Load Capacity		Weight	Box	Carton
200-130-422	NS-25	245 N	25 kgf	43 g	20 pcs	200 pcs

BASE

HO500

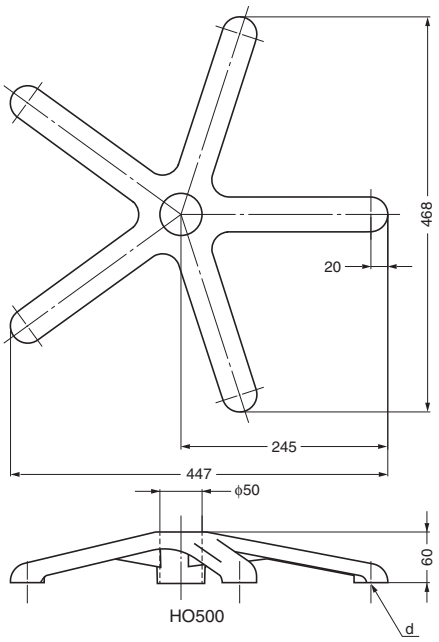


■Features

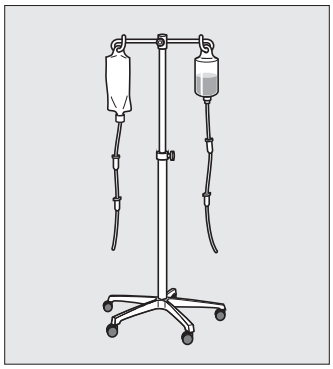
- Light and tough aluminium body.
- For ϕ50.8 pipe.
- Can be used for ϕ25, ϕ32, ϕ38 pipe with optional spacer (HOS) & optional fixing plate (HOS-Z).

■Remarks

Screws not included.

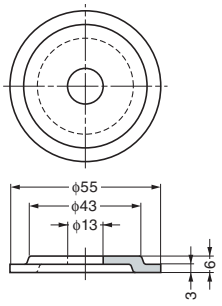


■Application Example

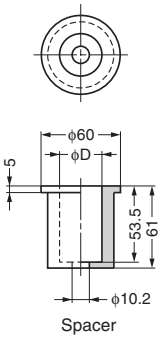


■Spacer (Optional Parts)





Fixing plate (HOS-Z)

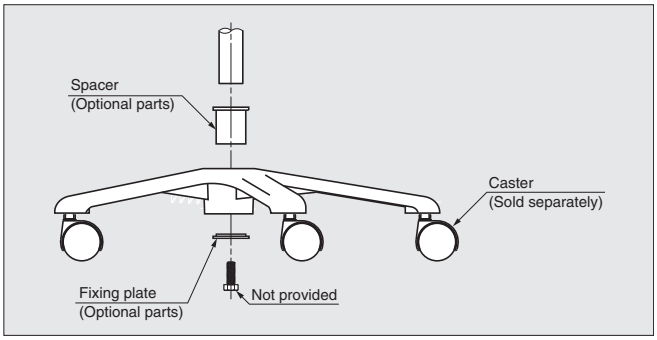


Spacer



Caster (Sold separately)

■Installation



■Base

Item Code	Item Name	d	Material	Finish	Weight	Carton
200-881-326	HO500N3	W3/8	Aluminium Alloy	Mirror	1.3 kg	5 pcs
200-025-048	HO500N10	M10	Aluminium Alloy	Mirror	1.3 kg	5 pcs

■Spacer (Optional Parts)

Item Code	Item Name	Material	Colour	D	Weight	Carton
200-881-320	HOS-25	Polyamide (PA)	Black	25	102 g	100 pcs
200-881-321	HOS-32	Polyamide (PA)	Black	32	85 g	100 pcs
200-881-322	HOS-38	Polyamide (PA)	Black	38	62 g	100 pcs

■Fixing Plate (Optional Parts) for Spacer

Item Code	Item Name	Material	Finish	Weight	Carton
200-881-323	HOS-Z	Stainless Steel (SUS304)	Polished	50 g	250 pcs

BASE

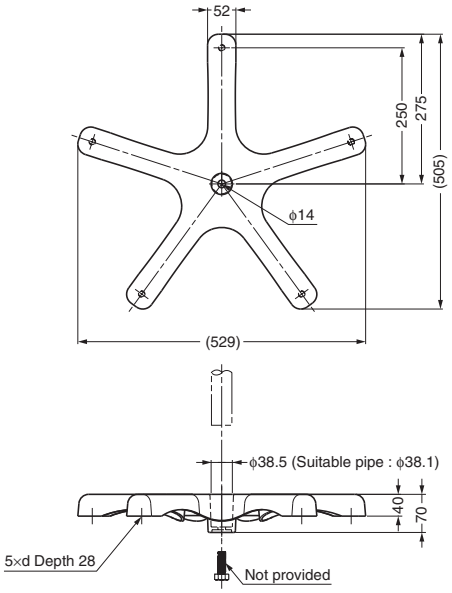
HS-550



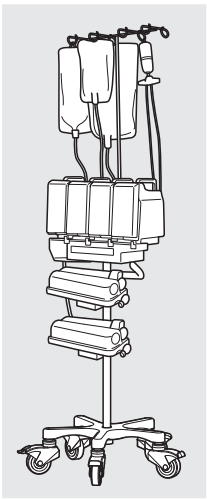


■Features

- Recommended Caster : FA55N (P.743) for HS-550M10, EX-100N (P.757) for HS-550M12
- For ϕ38.1 pipe.



■Application Example



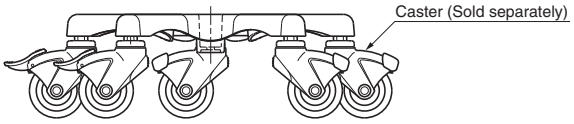
■Caster (Sold Separately)

EX-100N (P.757)



FA55N (P.743)

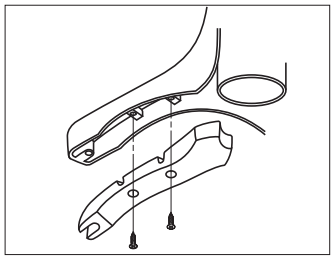




■Weight for Base (Optional Parts)



■Installation of Optional Weight for Base



Recommended Screw : Hexagon socket head cap screw M5×15

■Base

Item Code	Item Name	Material	Finish	d	Weight	Carton
200-013-966	HS-550M10W	Aluminium Alloy (ADC)	Paint/White	M10	2.2 kg	5 pcs
200-012-545	HS-550M12W	Aluminium Alloy (ADC)	Paint/White	M12	2.2 kg	5 pcs
200-017-128	HS-550M10M	Aluminium Alloy (ADC)	Mirror	M10	2.2 kg	5 pcs
200-014-984	HS-550M12M	Aluminium Alloy (ADC)	Mirror	M12	2.2 kg	5 pcs

■Weight for Base (Optional Parts)

Item Code	Item Name	Material	Finish	Weight	Carton
200-021-233	HSW-2	Steel (FC)	Paint/White	1.8 kg	1 pc

BASE

BJ610

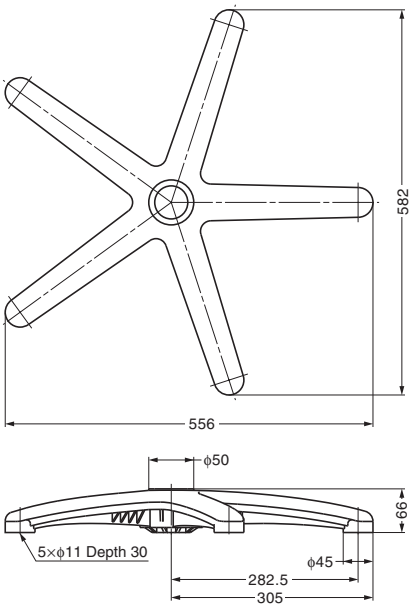


■Features

- Polyamide body resistances to chemicals.
- For ϕ50.8 pipe.
- Can be used for ϕ25, ϕ32, ϕ38 pipe with optional spacer (HOS) & optional fixing plate (HOS-Z).

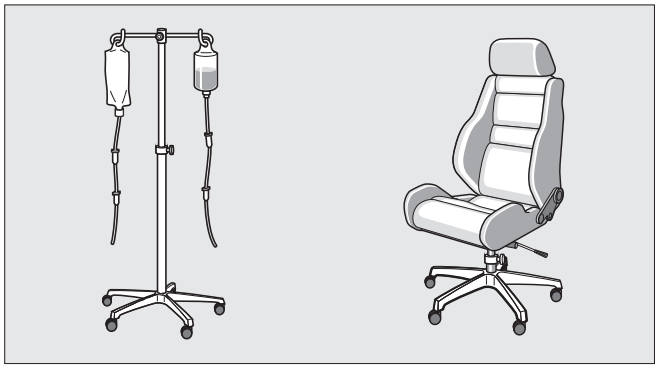
■Remarks

Screws not included.



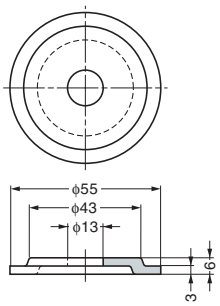
BJ610

■Application Example

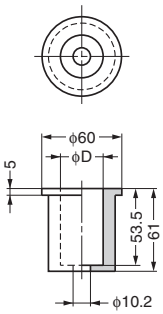


■Spacer (Optional Parts)





Fixing plate (HOS-Z)

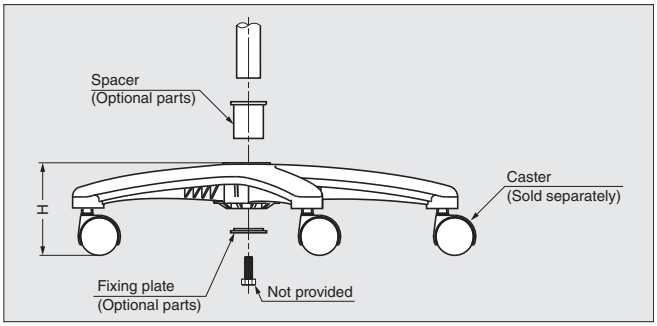


Spacer



Caster (Sold separately)

■Installation



■Base

Item Code	Item Name	Material	Colour	Weight	Carton
200-881-319	BJ610	Reinforced Nylon	Dark Grey	1.8 kg	10 pcs

■Spacer (Optional Parts)

Item Code	Item Name	Material	Colour	D	Weight	Carton
200-881-320	HOS-25	Polyamide (PA)	Black	25	102 g	100 pcs
200-881-321	HOS-32	Polyamide (PA)	Black	32	85 g	100 pcs
200-881-322	HOS-38	Polyamide (PA)	Black	38	62 g	100 pcs

■Fixing Plate (Optional Parts) for Spacer

Item Code	Item Name	Material	Finish	Weight	Carton
200-881-323	HOS-Z	Stainless Steel (SUS304)	Polished	50 g	250 pcs

■Caster (Sold Separately)

Item Code	Item Name	Material	Colour	Wheel Dia.	H	Weight	Carton
200-881-324	CTW38	Polyamide (PA)/ Urethane	Black	ϕ50	126	119 g	100 pcs

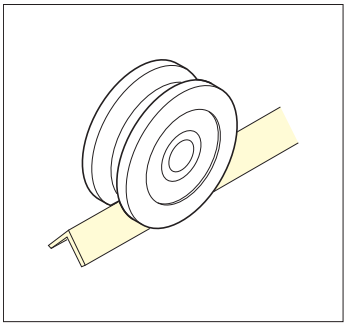
SLIDING DOOR ROLLER

STAINLESS 303 STEEL

JS, JC

- Heavy duty roller. Bearing is equipped to provide maximum smooth movement.
- Water resistance.
- Can be used outside.
- Ideal for gate.

■V Type



Load Capacity 3430～27440 N / 2 pcs (w/ Bracket)
350～2800 kgf / 2 pcs



All stainless steel
JS300



Steel
JC100

w/ Bracket



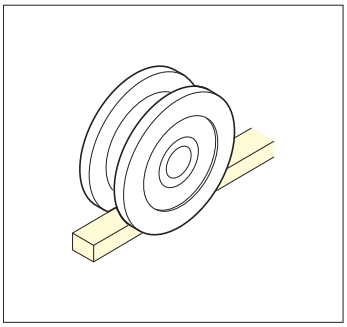
All stainless steel
JS310



Steel
JC110

w/o Bracket

■U Type



Load Capacity 3430～27440 N / 2 pcs (w/ Bracket)
350～2800 kgf / 2 pcs



All stainless steel
JS365



Steel
JC135 (Made-to-order)

w/ Bracket



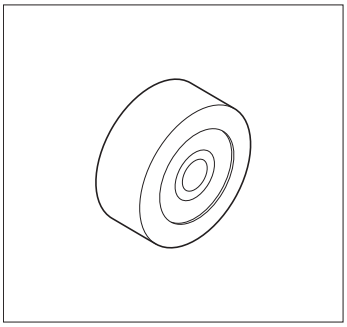
All stainless steel
JS380



Steel
JC145 (Made-to-order)

w/o Bracket

■Flat Type



Load Capacity 3430～27440 N / 2 pcs (w/ Bracket)
350～2800 kgf / 2 pcs



All stainless steel
JS375



Steel
JC140 (Made-to-order)

w/ Bracket



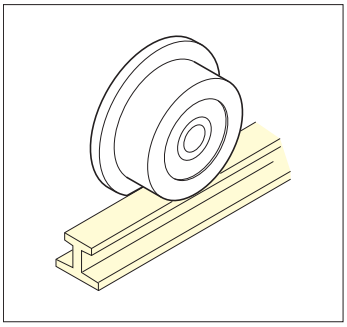
All stainless steel
JS385



Steel
JC150 (Made-to-order)

w/o Bracket

■L Type



Load Capacity 6370～27440 N / 2 pcs (w/ Bracket)
650～2800 kgf / 2 pcs



All stainless steel
JS315



Steel
JC115 (Made-to-order)

w/ Bracket



All stainless steel
JS325



Steel
JC120 (Made-to-order)

w/o Bracket

LEVELING GLIDE

TEST METHOD 14

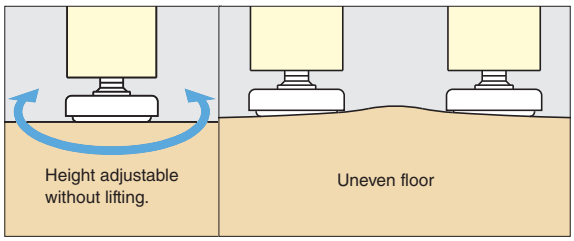
MKP

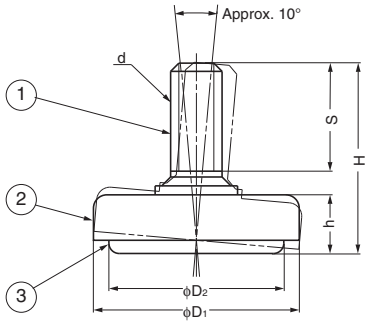




■Features

- Swivels approximately 10° to compensate for uneven floors.
- Double structure of cover/bolt and base allow easy height adjustment without lifting the leg.





No.	Part Name	Material	Finish
①	Threaded Bolt	Steel	Chrome
②	Cover	Steel	Chrome
③	Base	Steel	Chrome

Item Code	Item Name	d	D_1	D_2	H	h	S	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-141-503	MKP-32M10	M10	32	27	36	11	21	1568 N	160 kgf	44 g	80 pcs	480 pcs
200-140-090	MKP-32N3	W3/8	32	27	36	11	21	1568 N	160 kgf	44 g	80 pcs	480 pcs
200-140-094	MKP-40M10	M10	40	34	37	11.4	21	1568 N	160 kgf	65 g	50 pcs	300 pcs
200-140-091	MKP-40N3	W3/8	40	34	37	11.4	21	1568 N	160 kgf	65 g	50 pcs	300 pcs
200-140-095	MKP-50M10	M10	50	44	37.5	11.5	21	1176 N	120 kgf	90 g	20 pcs	120 pcs
200-140-092	MKP-50N3	W3/8	50	44	37.5	11.5	21	1176 N	120 kgf	90 g	20 pcs	120 pcs
200-141-100	MKP-60M12	M12	60	54	51.5	11.5	35	1568 N	160 kgf	155 g	15 pcs	120 pcs
200-141-101	MKP-70M14	M14	70	64	51.5	11.5	35	1568 N	160 kgf	195 g	15 pcs	120 pcs

LEVELING GLIDE

TEST METHOD 14

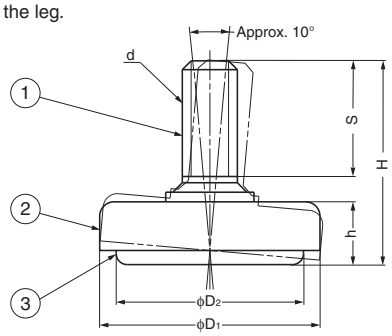
MKR





■Features

- Leveling glide with elastomer base to prevent from skidding and scratching the floor.
- Swivels approximately 10° to compensate for uneven floors.
- Double structure of cover/bolt and base allows easy height adjustment without lifting the leg.



No.	Part Name	Material	Finish/Colour
①	Threaded Bolt	Steel	Chrome
②	Cover	Steel	Chrome
③	Base	Elastomer (TPE)	Black

Item Code	Item Name	d	D_1	D_2	H	h	S	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-141-513	MKR-32M10	M10	32	27	36	11	21	392 N	40 kgf	41 g	80 pcs	480 pcs
200-140-096	MKR-32N3	W3/8	32	27	36	11	21	392 N	40 kgf	41 g	80 pcs	480 pcs
200-141-514	MKR-40M10	M10	40	34	37	11.4	21	588 N	60 kgf	60 g	50 pcs	300 pcs
200-140-097	MKR-40N3	W3/8	40	34	37	11.4	21	588 N	60 kgf	60 g	50 pcs	300 pcs
200-141-515	MKR-50M10	M10	50	44	37.5	11.5	21	588 N	60 kgf	87 g	20 pcs	120 pcs
200-140-098	MKR-50N3	W3/8	50	44	37.5	11.5	21	588 N	60 kgf	87 g	20 pcs	120 pcs
200-141-103	MKR-60M12	M12	60	54	51.5	11.5	35	784 N	80 kgf	150 g	15 pcs	120 pcs
200-141-102	MKR-70M14	M14	70	64	51.5	11.5	35	784 N	80 kgf	215 g	15 pcs	120 pcs

STAINLESS STEEL LEVELING GLIDE

TEST METHOD 14 | STAINLESS 304 STEEL

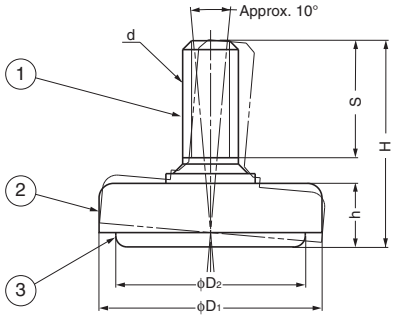
MKPS





■Features

- 304 stainless steel constructions is ideal for humid environments or applications where corrosion is an issue.
- Swivels approximately 10˚ to compensate for uneven floors.
- Double structure of cover/bolt and base allows easy height adjustment without lifting the leg.



No.	Part Name	Material	Finish
①	Threaded Bolt	Stainless Steel	Satin
②	Cover	Stainless Steel (SUS304)	Satin
③	Base	Stainless Steel (SUS304)	Plain

Item Code	Item Name	d	D_1	D_2	H	h	S	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-141-320	MKPS-32M10	M10	32	27	36	11	21	1960 N	200 kgf	50 g	60 pcs	480 pcs
200-141-321	MKPS-32N3	W3/8	32	27	36	11	21	1960 N	200 kgf	50 g	60 pcs	480 pcs
200-141-322	MKPS-40M10	M10	40	34	37	11.4	21	3136 N	320 kgf	70 g	40 pcs	320 pcs
200-141-323	MKPS-40N3	W3/8	40	34	37	11.4	21	3136 N	320 kgf	70 g	40 pcs	320 pcs
200-141-324	MKPS-50M10	M10	50	44	37.5	11.5	21	3528 N	360 kgf	95 g	30 pcs	240 pcs
200-141-325	MKPS-50N3	W3/8	50	44	37.5	11.5	21	3528 N	360 kgf	95 g	30 pcs	240 pcs
200-141-326	MKPS-60M12	M12	60	54	51.5	11.5	35	3920 N	400 kgf	140 g	15 pcs	120 pcs

STAINLESS STEEL LEVELING GLIDE

TEST METHOD 14 | STAINLESS 304 STEEL

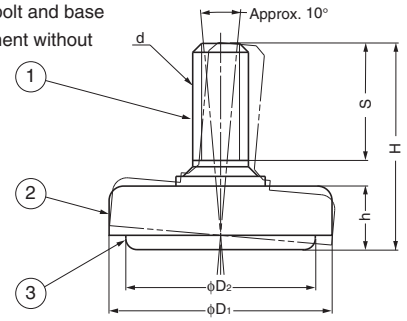
MKRS





■Features

- 304 stainless steel constructions is ideal for humid environments or applications where corrosion is an issue.
- Leveling glide with elastomer base to prevent from skidding and scratching the floor.
- Swivels approximately 10˚ to compensate for uneven floors.
- Double structure of cover/bolt and base allows easy height adjustment without lifting the leg.



No.	Part Name	Material	Finish/Colour
①	Threaded Bolt	Stainless Steel	Satin
②	Cover	Stainless Steel (SUS304)	Satin
③	Base	Elastomer (TPE)	Black

Item Code	Item Name	d	D_1	D_2	H	h	S	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-141-328	MKRS-32M10	M10	32	27	36	11	21	392 N	40 kgf	50 g	60 pcs	480 pcs
200-141-329	MKRS-32N3	W3/8	32	27	36	11	21	392 N	40 kgf	50 g	60 pcs	480 pcs
200-141-330	MKRS-40M10	M10	40	34	37	11.4	21	784 N	80 kgf	70 g	40 pcs	320 pcs
200-141-331	MKRS-40N3	W3/8	40	34	37	11.4	21	784 N	80 kgf	70 g	40 pcs	320 pcs
200-141-332	MKRS-50M10	M10	50	44	37.5	11.5	21	980 N	100 kgf	90 g	30 pcs	240 pcs
200-141-333	MKRS-50N3	W3/8	50	44	37.5	11.5	21	980 N	100 kgf	90 g	30 pcs	240 pcs
200-141-334	MKRS-60M12	M12	60	54	51.5	11.5	35	980 N	100 kgf	150 g	15 pcs	120 pcs
200-141-335	MKRS-70M14	M14	70	64	51.5	11.5	35	980 N	100 kgf	200 g	15 pcs	120 pcs

LEVELING GLIDE

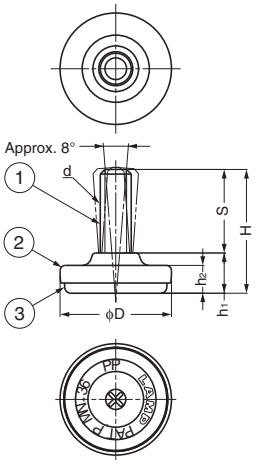
TEST METHOD 14

MN



■Features

- Leveling glide with plastic base to prevent from scratching the floor.
- Swivels approximately 8° to compensate for uneven floors.



No.	Part Name	Material	Finish/Colour
①	Threaded Bolt	Steel	Chrome
②	Cover	Stainless Steel (SUS304)	—
③	Base	Polypropylene (PP)	Natural

Item Code	Item Name	d	D	H	h_1	h_2	S	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-140-401	MN-25M8	M8	25	40	13	9	27	1176 N	120 kgf	26 g	100 pcs	600 pcs
200-140-400	MN-25N2.5	W5/16	25	40	13	9	27	1176 N	120 kgf	26 g	100 pcs	600 pcs
200-140-403	MN-32M10	M10	32	40	13	9	27	1568 N	160 kgf	34 g	80 pcs	480 pcs
200-140-402	MN-32N3	W3/8	32	40	13	9	27	1568 N	160 kgf	34 g	80 pcs	480 pcs
200-140-405	MN-36M10	M10	36	40	13	9	27	1568 N	160 kgf	39 g	60 pcs	360 pcs
200-140-404	MN-36N3	W3/8	36	40	13	9	27	1568 N	160 kgf	39 g	60 pcs	360 pcs
200-140-407	MN-40M10	M10	40	40	13	9	27	1568 N	160 kgf	42 g	50 pcs	300 pcs
200-140-406	MN-40N3	W3/8	40	40	13	9	27	1568 N	160 kgf	42 g	50 pcs	300 pcs
200-140-409	MN-50M12	M12	50	50	16	11	34	1568 N	160 kgf	77 g	20 pcs	120 pcs
200-140-408	MN-50N4	W1/2	50	50	16	11	34	1568 N	160 kgf	77 g	20 pcs	120 pcs

LEVELING GLIDE

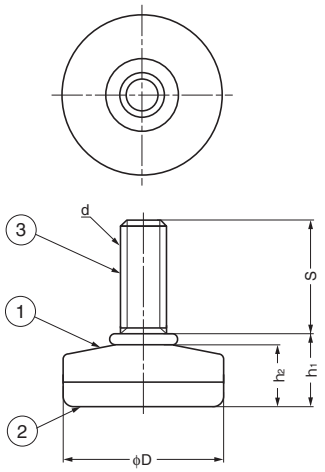
TEST METHOD 14

TN



■Features

Leveling glide with plastic base to prevent from scratching the floor.



No.	Part Name	Material	Finish/Colour
①	Body	Steel	Chrome
②	Base	Polypropylene (PP)	Natural
③	Threaded Bolt	Steel	Yellow Zinc Chromate

Item Code	Item Name	d	D	h_1	h_2	S	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-140-246	TN-25	M8	25	15	12	25	784 N	80 kgf	20 g	100 pcs	1,000 pcs
200-140-247	TN-35	M10	35	16.5	13.5	25	980 N	100 kgf	30 g	50 pcs	500 pcs
200-140-248	TN-45	M10	43.5	16.5	13.5	32	980 N	100 kgf	40 g	40 pcs	400 pcs

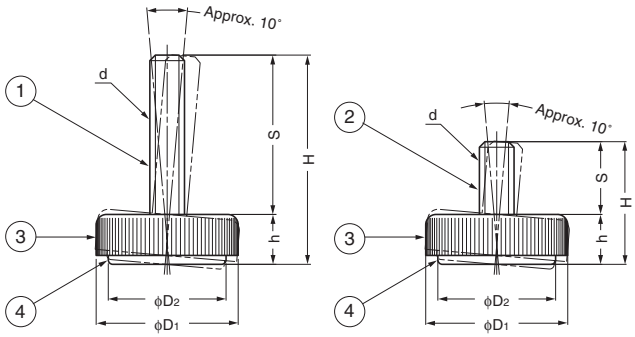
LEVELING GLIDE

MKR-N



■Features

- Swivels approximately 10° to compensate for uneven floors.
- Double structure of cover/bolt and base allows easy height adjustment without lifting the leg.
- Leveling glide with elastomer base to prevent from skidding.



No.	Part Name	Material	Finish/Colour
①	Threaded Bolt	Steel	Yellow Zinc Chromate
②	Threaded Bolt	Steel	Chrome
③	Cover	Polyamide (PA)	Black
④	Base	Elastomer (TPE)	Black

Item Code	Item Name	d	D_1	D_2	H	h	S	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-141-300	MKR-N32M10	M10	33	27	36	14	22	588 N	60 kgf	35 g	80 pcs	480 pcs
200-141-301	MKR-N32N3	W3/8	33	27	36	14	22	588 N	60 kgf	35 g	80 pcs	480 pcs
200-141-302	MKR-N40M10	M10	41	34	37	15	22	686 N	70 kgf	45 g	50 pcs	300 pcs
200-141-303	MKR-N40N3	W3/8	41	34	37	15	22	686 N	70 kgf	40 g	50 pcs	300 pcs
200-141-304	MKR-N50M10	M10	51	44	37.5	15.5	22	784 N	80 kgf	60 g	20 pcs	120 pcs
200-140-100	MKR-N50M10H60	M10	51	44	60	15.5	44.5	784 N	80 kgf	60 g	20 pcs	120 pcs
200-141-305	MKR-N50N3	W3/8	51	44	37.5	15.5	22	784 N	80 kgf	55 g	20 pcs	120 pcs

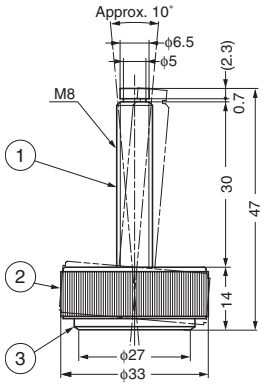
LEVELING GLIDE

MKR-N32

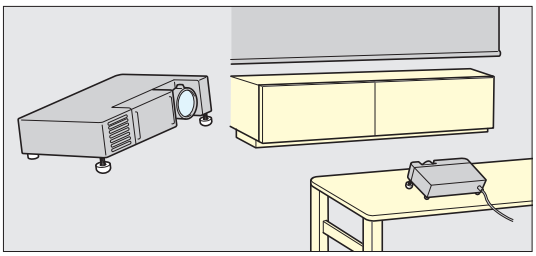


■Features

- Swivels approximately 10° to compensate for uneven floors.
- Double structure of cover/bolt and base allows easy height adjustment without lifting the leg.
- Leveling glide with elastomer base to prevent from skidding and scratching the floor.



■Application Example



No.	Part Name	Material	Finish/Colour
①	Threaded Bolt	Steel	Chrome
②	Cover	Polyamide (PA)	Dark Grey, Grey
③	Base	Elastomer (TPE)	Black

Item Code	Item Name	Colour	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-149-228	MKR-N32DG32	Dark Grey	454 N	46 kgf	31 g	50 pcs	300 pcs

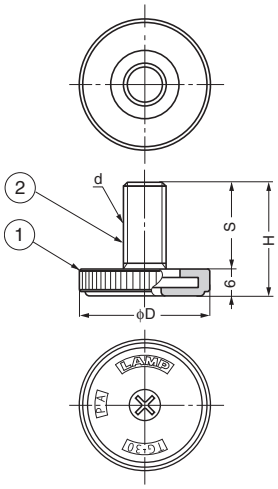
LEVELING GLIDE

TEST METHOD 14 **TG**





■**Features**
- Thin type of leveling glide.
- Knurled rim for easy adjustment.



No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Dark Grey, White
②	Threaded Bolt	Steel	Yellow Zinc Chromate

Item Code	Item Name	Colour	d	D	H	S	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-140-240	TG-20	Dark Grey	M8	20	21	15	980 N	100 kgf	11 g	120 pcs	720 pcs
200-936-848	TG-20WT	White	M8	20	21	15	980 N	100 kgf	11 g	120 pcs	720 pcs
200-142-501	TG-30	Dark Grey	M10	30	26	20	1470 N	150 kgf	25 g	100 pcs	600 pcs
200-936-849	TG-30WT	White	M10	30	26	20	1470 N	150 kgf	25 g	100 pcs	600 pcs
200-142-520	TG-40	Dark Grey	M10	40	26	20	1764 N	180 kgf	36 g	60 pcs	360 pcs
200-936-850	TG-40WT	White	M10	40	26	20	1764 N	180 kgf	36 g	60 pcs	360 pcs

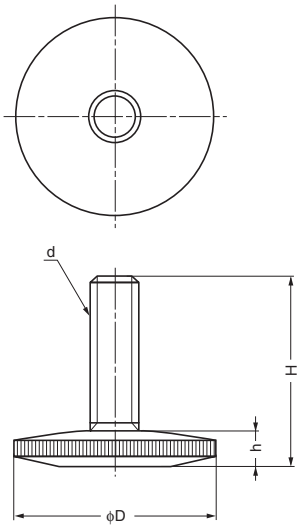
LEVELING GLIDE

TEST METHOD 14 **RA**



■**Features**

Knurled rim for easy adjustment.



Material	Finish
Brass	Satin Nickel

Item Code	Item Name	d	D	H	h	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-140-114	RA-25	W5/16	26	28	6	784 N	80 kgf	26 g	100 pcs	600 pcs
200-140-115	RA-30	W3/8	32	33	6.5	1176 N	120 kgf	41 g	50 pcs	300 pcs
200-140-116	RA-40	W3/8	40	39	8	2156 N	220 kgf	71 g	50 pcs	300 pcs
200-140-117	RA-50	W1/2	50	50	10	2352 N	240 kgf	162 g	20 pcs	120 pcs

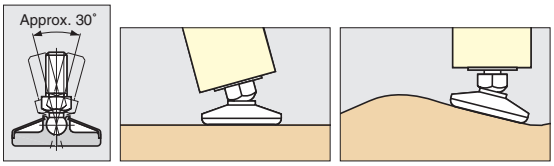
LEVELING GLIDE

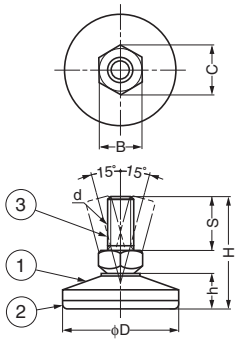
TEST METHOD 14 **RP**



■Features

- Swivels approximately 30˚ to compensate for uneven floors.
- Polyamide base.
- Wide variations of available bolts: M6 - M14.
- Different length can be made as special order.





No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Satin
②	Base	Polyamide (PA)	Natural
③	Threaded Bolt	Steel	Yellow Zinc Chromate

Item Code	Item Name	d	D	H	h	S	B	C	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-140-028	RP-25M6-G	M6	25	31	9.7	14	8	9.2	588 N	60 kgf	11 g	50 pcs	500 pcs
200-140-029	RP-30M8-G	M8	30	37.5	11.2	19	10	11.5	1078 N	110 kgf	21 g	35 pcs	350 pcs
200-140-023	RP-30N25	W5/16	30	37.5	11.2	19	10	11.5	1078 N	110 kgf	21 g	35 pcs	350 pcs
200-140-031	RP-40M10-G	M10	40	42.5	13.7	20	13	15	1568 N	160 kgf	38 g	25 pcs	250 pcs
200-140-032	RP-40N3-G	W3/8	40	42.5	13.7	20	13	15	1568 N	160 kgf	38 g	25 pcs	250 pcs
200-140-033	RP-50M12-G	M12	50	51	16	25	17	19.6	3136 N	320 kgf	70 g	15 pcs	150 pcs
200-140-027	RP-70M14-G	M14	70	66.5	24.7	30	19	22	6100 N	622 kgf	150 g	10 pcs	100 pcs

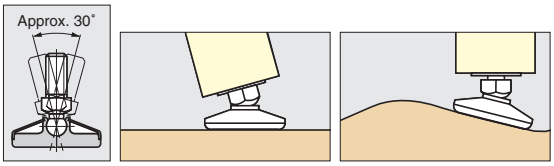
STAINLESS STEEL LEVELING GLIDE

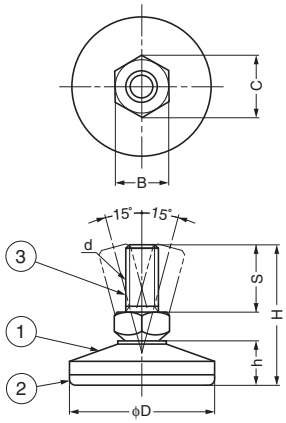
TEST METHOD 14 STAINLESS 304 STEEL **RPS**



■Features

- Compensates for uneven floors.
- Swivels approximately 30˚ to compensate for uneven floor.
- Different length can be made as special order.



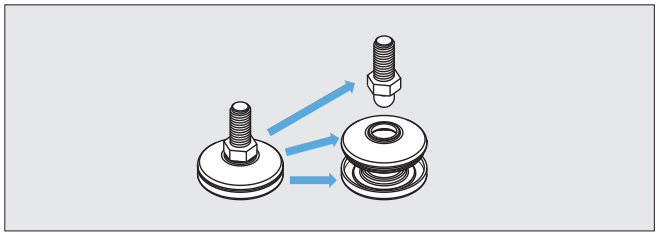


No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Satin
②	Base	Polyamide (PA)	Natural
③	Threaded Bolt	Stainless Steel (SUS303)	Plain

Item Code	Item Name	d	D	H	h	S	B	C	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-026-994	RPS-25M6-G	M6	25	31	9.7	14	8	9.2	588 N	60 kgf	11 g	50 pcs	500 pcs
200-026-995	RPS-30M8-G	M8	30	37.5	11.2	19	10	11.5	1078 N	110 kgf	21 g	35 pcs	350 pcs
200-026-996	RPS-40M10-G	M10	40	42.5	13.7	20	13	15	1568 N	160 kgf	38 g	25 pcs	250 pcs

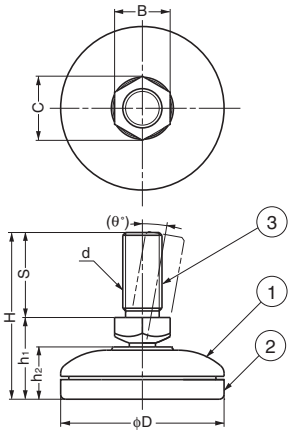
LEVELING GLIDE EA





■Features

- Parts can be easily separated for recycling purpose.
- Bolt swivels to compensate for uneven floors.



No.	Part Name	Material	Finish/Colour
①	Cover	ABS	Dark Grey
②	Base	ABS	Dark Grey
③	Threaded Bolt	Steel	Yellow Zinc Chromate

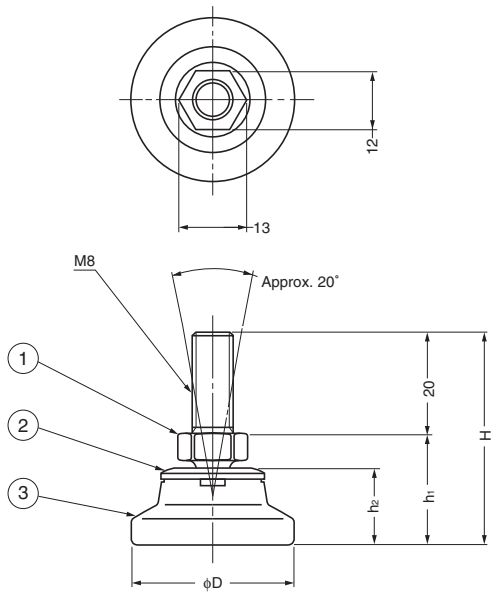
Item Code	Item Name	d	D	H	h_1	h_2	S	B	C	θ°	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-140-911	EA-25M6	M6	25	31	14	8.5	17	8	9.2	10	490 N	50 kgf	10 g	120 pcs	1200 pcs
200-140-912	EA-30M8	M8	30	37.5	17	10.5	20.5	10	11.5	15	980 N	100 kgf	20 g	80 pcs	800 pcs
200-140-913	EA-40M10	M10	40	42.5	20.5	13	22	13	15	12.5	1274 N	130 kgf	32 g	40 pcs	400 pcs
200-140-910	EA-50M12	M12	50	51	25	16	26	17	19.6	10	2646 N	270 kgf	60 g	20 pcs	200 pcs

LEVELING GLIDE TEST METHOD 14 SG



■Features

Swivels approximately 20° to compensate for uneven floors.



No.	Part Name	Material	Finish/Colour
①	Threaded Bolt	Steel	Black Chromated
②	Cap	Polyamide (PA)	Dark Grey
③	Base	Polyacetal (POM)	Dark Grey

Item Code	Item Name	D	H	h_1	h_2	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-142-506	SG-32M8	32	42	22	15.5	1176 N	120 kgf	25 g	60 pcs	480 pcs
200-142-504	SG-40M8	40	42.5	22.5	16	1568 N	160 kgf	30 g	35 pcs	280 pcs

OCTAGONAL LEVELING GLIDE

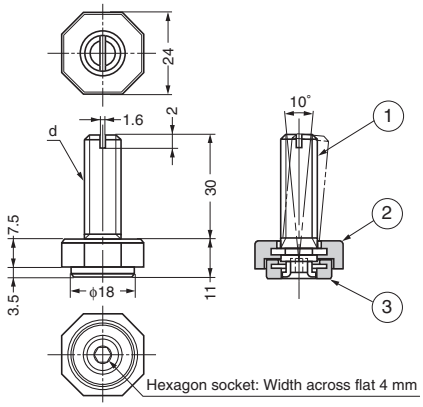
TEST METHOD 14

MK8AD



■Features

- Swivels approximately 10° to compensate for uneven floors.
- Height adjustable by a screw driver.
- Octagonal base allows easy adjustment by hand or wrench (width across flat: 24 mm).
- Double structure of cover/bolt and base allows easy height adjustment without lifting the leg.
- Leveling glide with elastomer base to prevent from skidding.



No.	Part Name	Material	Finish/Colour
①	Threaded Bolt	Steel	Black Chromated
②	Cover	Polyamide (PA)	Black
③	Base	Elastomer (TPE)	Black

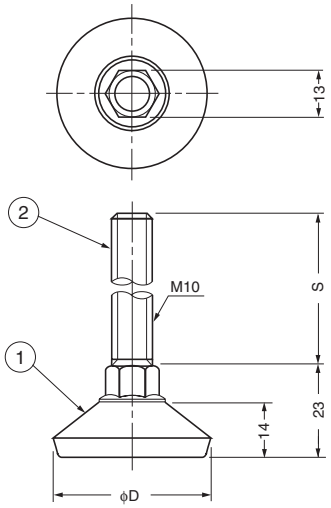
Item Code	Item Name	d	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-018-798	MK8AD-M8	M8	588 N	60 kgf	20 g	80 pcs	480 pcs
200-140-039	MK8AD	M10	588 N	60 kgf	25 g	80 pcs	480 pcs

LEVELING GLIDE

TEST METHOD 14

PM





No.	Part Name	Material	Finish/Colour
①	Body	Polyamide (PA)	Black
②	Threaded Bolt	Steel	Black Chromate

Item Code	Item Name	D	S	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-145-030	PM-30	30	60	1176 N	120 kgf	48 g	40 pcs	400 pcs
200-145-034	PM-40	38	60	2744 N	280 kgf	50 g	30 pcs	300 pcs
200-149-161	PM-50	50	60	1960 N	200 kgf	55 g	20 pcs	200 pcs

LEVELING GLIDE

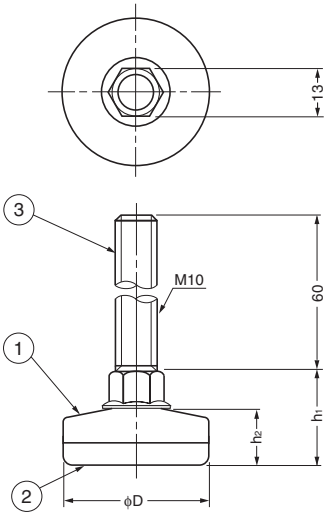
TEST METHOD 14

TN-S



■Features

Leveling glide with plastic base to prevent from scratching the floor.



No.	Part Name	Material	Finish/Colour
①	Body	Steel	Chrome
②	Base	Polypropylene (PP)	Natural
③	Threaded Bolt	Steel	Zinc Chromate

Item Code	Item Name	D	h_1	h_2	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-140-249	TN-25S	25	21	12	1372 N	140 kgf	50 g	50 pcs	500 pcs
200-140-250	TN-35S	35	22.5	13.5	1372 N	140 kgf	60 g	30 pcs	300 pcs
200-140-251	TN-45S	43.5	22.5	13.5	1372 N	140 kgf	70 g	20 pcs	200 pcs

LEVELING GLIDE

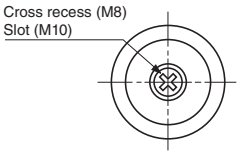
TEST METHOD 14

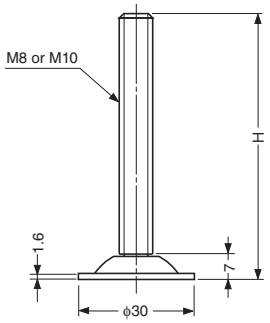
AD-501



■Features

- Use with glide bases.
- Height is adjustable by a screw driver.





Material	Finish
Steel	Zinc Chromate

■M8 Type

Item Code	Item Name	H	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-140-060	AD-501- 30E	30	980 N	100 kgf	17 g	100 pcs	400 pcs
200-140-580	AD-501- 50E	50	980 N	100 kgf	22 g	100 pcs	400 pcs
200-140-057	AD-501- 60E	60	980 N	100 kgf	25 g	100 pcs	400 pcs
200-140-581	AD-501- 70E	70	980 N	100 kgf	28 g	50 pcs	200 pcs
200-140-582	AD-501- 75E	75	980 N	100 kgf	30 g	50 pcs	200 pcs
200-140-583	AD-501- 80E	80	980 N	100 kgf	31 g	50 pcs	200 pcs
200-140-056	AD-501- 90E	90	980 N	100 kgf	35 g	50 pcs	200 pcs
200-140-584	AD-501-105E	105	980 N	100 kgf	38 g	50 pcs	200 pcs
200-140-585	AD-501-120E	120	980 N	100 kgf	43 g	50 pcs	200 pcs
200-140-586	AD-501-130E	130	980 N	100 kgf	45 g	50 pcs	200 pcs

■M10 Type

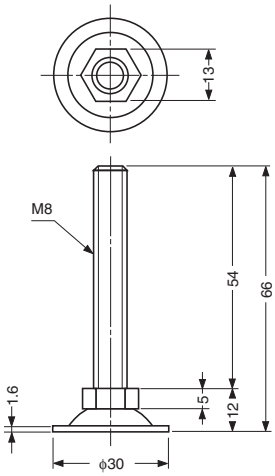
Item Code	Item Name	H	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-140-061	AD-501- 30G	30	1372 N	140 kgf	20 g	100 pcs	400 pcs
200-140-063	AD-501- 60G	60	1372 N	140 kgf	37 g	100 pcs	400 pcs
200-140-590	AD-501- 90G	90	1372 N	140 kgf	50 g	50 pcs	200 pcs
200-140-591	AD-501-120G	120	1372 N	140 kgf	65 g	50 pcs	200 pcs

LEVELING GLIDE

TEST METHOD 14

AD-502





■Features

- Use with glide bases.
- Cross recessed bottom type AD-502-P (below) is also available.

■Wrench for AD-502:AD-502-SP (Sold Separately)

Item Code	Item Name	Material	Finish	Box	Carton
200-936-204	AD-502-SP	Steel	Yellow Zinc Chromate	250 pcs	1,000 pcs



Item Code	Item Name	Material	Finish	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-140-059	AD-502	Steel	Zinc Chromate	2744 N	280 kgf	30 g	100 pcs	400 pcs
200-149-237	AD-502BZC	Steel	Black Chromate	2744 N	280 kgf	30 g	100 pcs	400 pcs

LEVELING GLIDE

TEST METHOD 14

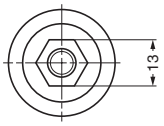
AD-502-P





■Features

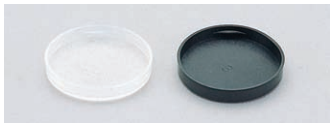
Cover ADKW and ADKB (sold separately) available.

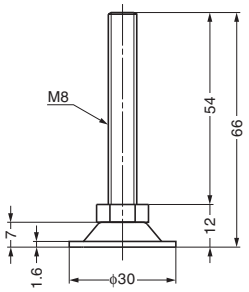


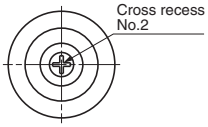
■Wrench for AD-502 : AD-502-SP (Sold Separately)



■Cover for AD-501 & AD-502 : ADKW & ADKB (Sold Separately)







■Body

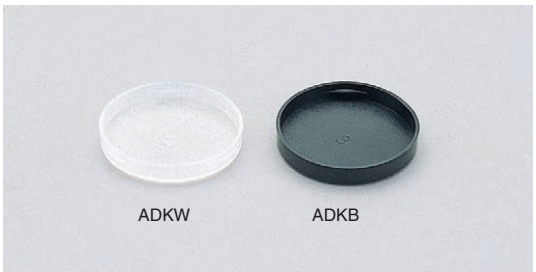
Item Code	Item Name	Material	Finish	Load Capacity	Load Capacity	Weight	Box	Carton
200-024-440	AD-502P	Steel	Zinc Chromate	2744 N	280 kgf	30 g	100 pcs	400 pcs
200-024-441	AD-502P-BZC	Steel	Black Chromate	2744 N	280 kgf	30 g	100 pcs	400 pcs

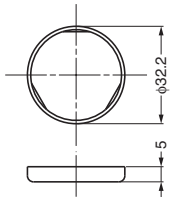
■Wrench for AD-502 : AD-502-SP (Sold Separately)

Item Code	Item Name	Material	Finish	Box	Carton
200-936-204	AD-502-SP	Steel	Yellow Zinc Chromate	250 pcs	1,000 pcs

COVER

ADKW, ADKB





■Features

Cover for AD-501, AD-502 and AD-502-P to prevent from scratching the floor.

Item Code	Item Name	Material	Colour	Weight	Box	Carton
200-140-088	ADKW	Polyethylene (PE)	Natural	1 g	250 pcs	2,500 pcs
200-140-089	ADKB	Polyethylene (PE)	Black	1 g	250 pcs	2,500 pcs

STAINLESS STEEL LONG-STEM LEVELING GLIDE MKPLS

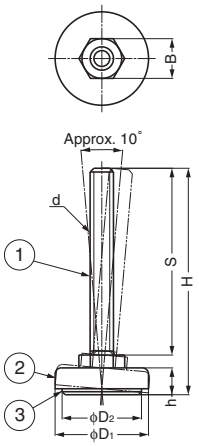
TEST METHOD 14 | STAINLESS 304 STEEL





Features

- 304 stainless steel construction is ideal for humid environments or applications where corrosion is an issue.
- Swivels approximately 10° to compensate for uneven floors.
- Double structure of cover/bolt and base allow easy height adjustment without lifting the leg.



No.	Part Name	Material	Finish
①	Threaded Bolt	Stainless Steel	Satin
②	Cover	Stainless Steel (SUS304)	Satin
③	Base	Stainless Steel (SUS304)	Plain

Item Code	Item Name	d	D_1	D_2	H	h	S	B	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-130-347	MKPLS-32-10-80	M10	32	27	96	10.5	80	17	1960 N	200 kgf	79 g	30 pcs	240 pcs
200-141-336	MKPLS-40-12-80	M12	40	34	97	11.5	80	17	2940 N	300 kgf	125 g	30 pcs	240 pcs
200-141-337	MKPLS-50-12-80	M12	50	44	97	11.5	80	17	3332 N	340 kgf	150 g	20 pcs	160 pcs
200-141-338	MKPLS-50-16-78	M16	50	44	100	11.5	78.5	24	3136 N	320 kgf	220 g	15 pcs	120 pcs

STAINLESS STEEL LONG-STEM LEVELING GLIDE MKRLS

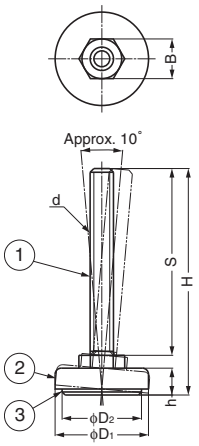
TEST METHOD 14 | STAINLESS 304 STEEL





Features

- 304 stainless steel construction is ideal for humid environments or applications where corrosion is an issue.
- Swivels approximately 10° to compensate for uneven floors.
- Double structure of cover/bolt and base allow easy height adjustment without lifting the leg.
- Leveling glide with elastomer base to prevent from skidding.



No.	Part Name	Material	Finish/Colour
①	Threaded Bolt	Stainless Steel	Satin
②	Cover	Stainless Steel (SUS304)	Satin
③	Base	Elastomer (TPE)	Black

Item Code	Item Name	d	D_1	D_2	H	h	S	B	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
200-130-348	MKRLS-32-10-80	M10	32	27	96	11	80	17	784 N	80 kgf	76 g	30 pcs	240 pcs
200-141-339	MKRLS-40-12-80	M12	40	34	97	11.5	80	17	784 N	80 kgf	120 g	30 pcs	240 pcs
200-141-340	MKRLS-50-12-80	M12	50	44	97	11.5	80	17	980 N	100 kgf	140 g	20 pcs	160 pcs
200-141-341	MKRLS-50-16-78	M16	50	44	100	11.5	78.5	24	784 N	80 kgf	215 g	15 pcs	120 pcs

LEVELING GLIDE

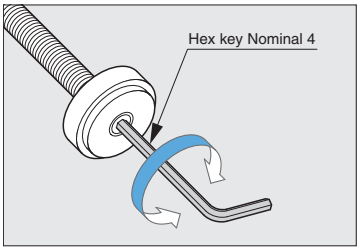
TEST METHOD 14

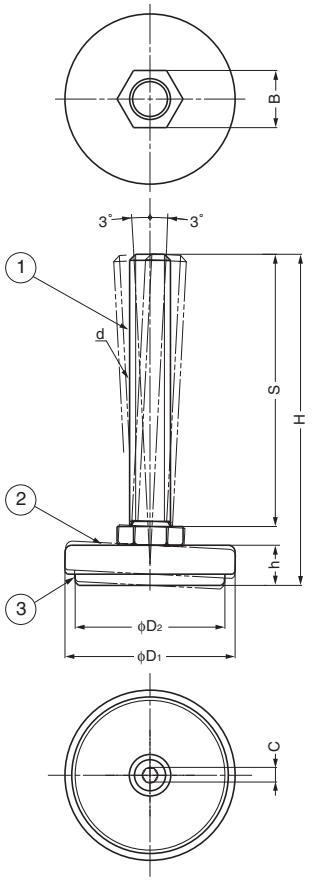
MKRL



■Features

- Swivels approximately 6° to compensate for uneven floors.
- Double structure of cover/bolt and base allows easy height adjustment without lifting the leg.
- Hexagon socket at the bottom for easy installation.





No.	Part Name	Material	Finish/Colour
①	Threaded Bolt	Steel	Black Chromate
②	Cover	Steel	Black Chromate
③	Base	Elastomer (TPE)	Black

Item Code	Item Name	d	D_1	D_2	H	h	S	B	C	Load Capacity		Weight	Box	Carton
200-141-159	MKRL-32-10- 80B6	M10	32	27	95.8	10.8	80	17	4	588 N	60 kgf	78 g	30 pcs	300 pcs
200-147-014	MKRL-32-12- 66B6	M12	32	27	81.8	10.8	66	17	4	735 N	75 kgf	85 g	30 pcs	300 pcs
200-141-120	MKRL-32-12- 80B6	M12	32	27	95.8	10.8	80	17	4	588 N	60 kgf	94 g	30 pcs	300 pcs
200-141-160	MKRL-40-10- 80B6	M10	40	34	96.2	11.2	80	17	4	588 N	60 kgf	95 g	25 pcs	250 pcs
200-141-115	MKRL-40-12- 32B6	M12	40	34	48.2	11.2	32	17	4	588 N	60 kgf	79 g	30 pcs	300 pcs
200-141-110	MKRL-40-12- 43B6	M12	40	34	59.2	11.2	43	17	4	588 N	60 kgf	85 g	25 pcs	250 pcs
200-141-124	MKRL-40-12- 55B6	M12	40	34	71.2	11.2	55	17	4	588 N	60 kgf	94 g	25 pcs	250 pcs
200-149-111	MKRL-40-12- 80B6	M12	40	34	96.2	11.2	80	17	4	588 N	60 kgf	111 g	25 pcs	250 pcs
200-141-111	MKRL-40-12-120B6	M12	40	34	136.2	11.2	120	17	4	588 N	60 kgf	143 g	15 pcs	150 pcs
200-149-112	MKRL-50-12- 80B6	M12	50	44	96.8	11.8	80	17	4	588 N	60 kgf	136 g	20 pcs	200 pcs
200-141-112	MKRL-50-12-120B6	M12	50	44	136.8	11.8	120	17	4	588 N	60 kgf	169 g	10 pcs	100 pcs
200-149-113	MKRL-50-16- 78B6	M16	50	44	100.3	11.8	78.5	24	4	784 N	80 kgf	214 g	15 pcs	120 pcs
200-141-113	MKRL-70-20-101B6	M20	70	64	124.5	11.5	101	30	4	784 N	80 kgf	448 g	8 pcs	64 pcs

STAINLESS STEEL LEVELING GLIDE

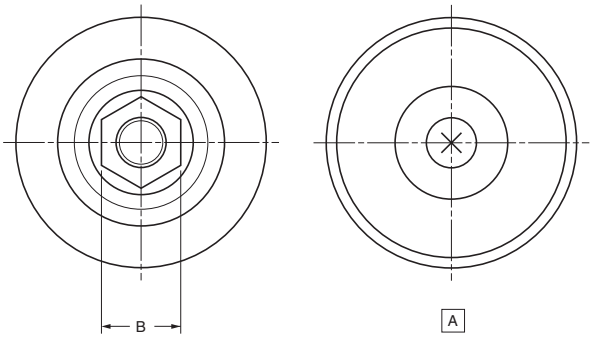
STAINLESS 304 STEEL

ADWS, ADWHS

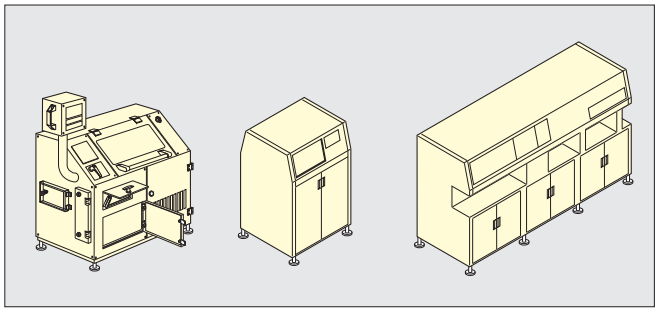


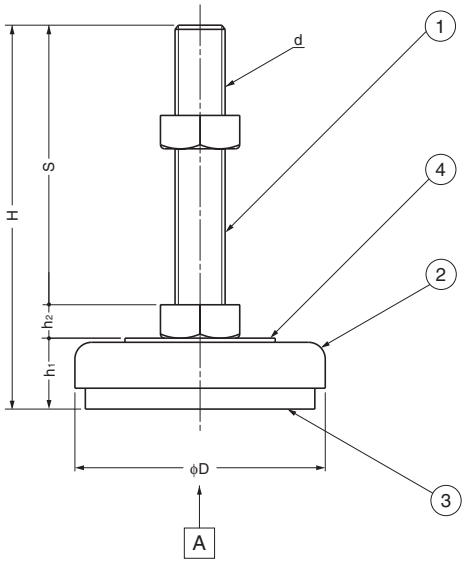
■Features

- 304 stainless steel for rust and corrosion resistance.
- ADWS : Excellent weather resistance.
- ADWHS : Base material helps to prevent marking on the floor and has excellent heat / weather resistance.



■Application Example





No.	Part Name	Material	Finish/Colour
①	Threaded Bolt	Stainless Steel (SUS304)	Satin
②	Cover	Stainless Steel (SUS304)	Satin
③	Base	ADWS/Chloroprene Rubber (CR)	Black
		ADWHS/Ethylene Propylene Rubber (EPDM)	White
④	Washer	Polyamide (PA)	–

Item Code	Item Name	d	D	H	h_1	h_2	S	B	Load Capacity		Weight	Carton
200-140-605	ADWS 40- 8- 60	M 8	40	78.5	13	5.5	60	13	3724 N	380 kgf	75 g	150 pcs
200-140-606	ADWS 40-10- 50	M10	40	70	13	7	50	17	6272 N	640 kgf	95 g	120 pcs
200-140-607	ADWS 50-12- 70	M12	50	93	15	8	70	19	8722 N	890 kgf	176 g	60 pcs
200-140-609	ADWS 50-12-120	M12	50	143	15	8	120	19	7644 N	780 kgf	216 g	60 pcs
200-140-611	ADWS 60-16- 70	M16	60	97	17	10	70	24	14308 N	1460 kgf	292 g	40 pcs
200-140-612	ADWS 60-16-100	M16	60	127	17	10	100	24	14210 N	1450 kgf	332 g	35 pcs
200-140-616	ADWS 60-20-100	M20	60	130	17	13	100	30	17150 N	1750 kgf	484 g	25 pcs
200-140-617	ADWS 60-20-130	M20	60	160	17	13	130	30	15876 N	1620 kgf	570 g	20 pcs
200-140-620	ADWHS40- 8- 60	M 8	40	78.5	13	5.5	60	13	4214 N	430 kgf	73 g	150 pcs
200-140-621	ADWHS40-10- 50	M10	40	70	13	7	50	17	5978 N	610 kgf	96 g	120 pcs
200-140-622	ADWHS50-12- 70	M12	50	93	15	8	70	19	8330 N	850 kgf	167 g	60 pcs
200-140-627	ADWHS60-16-100	M16	60	127	17	10	100	24	12348 N	1260 kgf	336 g	35 pcs
200-140-628	ADWHS60-16-130	M16	60	157	17	10	130	24	11760 N	1200 kgf	377 g	30 pcs

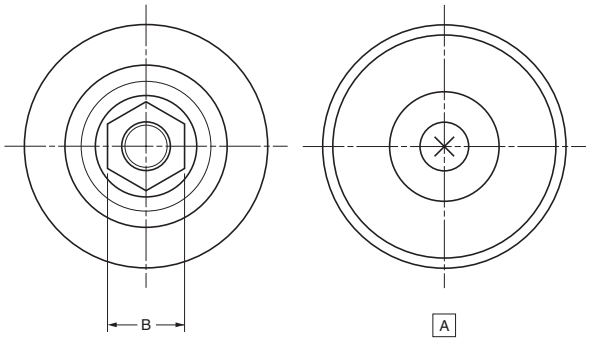
LEVELING GLIDE

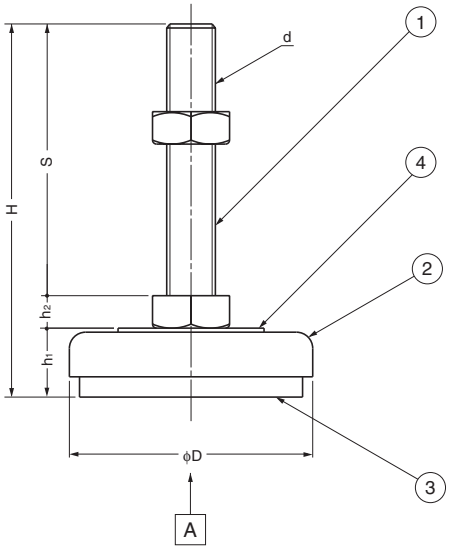
ADW, ADWH



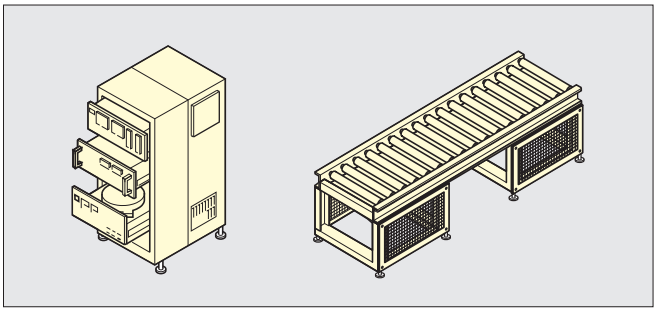
■Features

- ADW : Excellent weather resistance.
- ADWH : Low marking and excellent heat / weather resistance.





■Application Example



No.	Part Name	Material	Finish/Colour
①	Threaded Bolt	Steel	Black Chromate
②	Cover	Steel	Black Chromate
③	Base	ADW/Chloroprene Rubber (CR)	Black
		ADWH/Ethylene Propylene Rubber (EPDM)	White
④	Washer	Polyamide (PA)	—

Item Code	Item Name	d	D	H	h_1	h_2	S	B	Load Capacity		Weight	Carton
200-140-635	ADW 40- 8- 60	M 8	40	78.5	13	5.5	60	13	3332 N	340 kgf	79 g	150 pcs
200-140-636	ADW 40-10- 50	M10	40	70	13	7	50	17	5684 N	580 kgf	100 g	120 pcs
200-140-637	ADW 50-12- 70	M12	50	93	15	8	70	19	8232 N	840 kgf	170 g	60 pcs
200-140-638	ADW 50-12-100	M12	50	123	15	8	100	19	6762 N	690 kgf	195 g	60 pcs
200-140-639	ADW 50-12-120	M12	50	143	15	8	120	19	6860 N	700 kgf	218 g	60 pcs
200-140-641	ADW 60-16- 70	M16	60	97	17	10	70	24	12838 N	1310 kgf	300 g	40 pcs
200-140-642	ADW 60-16-100	M16	60	127	17	10	100	24	12544 N	1280 kgf	332 g	35 pcs
200-140-643	ADW 60-16-130	M16	60	157	17	10	130	24	11858 N	1210 kgf	386 g	30 pcs
200-140-647	ADW 60-20-100	M20	60	130	17	13	100	30	13034 N	1330 kgf	492 g	25 pcs
200-140-648	ADW 60-20-130	M20	60	160	17	13	130	30	14406 N	1470 kgf	558 g	20 pcs
200-140-652	ADWH40- 8- 60	M 8	40	78.5	13	5.5	60	13	3332 N	340 kgf	78 g	150 pcs
200-140-653	ADWH40-10- 50	M10	40	70	13	7	50	17	5684 N	580 kgf	97 g	120 pcs
200-140-654	ADWH50-12- 70	M12	50	93	15	8	70	19	8036 N	820 kgf	176 g	60 pcs
200-140-655	ADWH50-12-100	M12	50	123	15	8	100	19	7056 N	720 kgf	200 g	60 pcs
200-140-656	ADWH50-12-120	M12	50	143	15	8	120	19	6566 N	670 kgf	207 g	60 pcs
200-140-657	ADWH50-12-150	M12	50	173	15	8	150	19	6076 N	620 kgf	298 g	50 pcs
200-140-658	ADWH60-16- 70	M16	60	97	17	10	70	24	12054 N	1230 kgf	242 g	40 pcs
200-140-659	ADWH60-16-100	M16	60	127	17	10	100	24	10780 N	1100 kgf	336 g	35 pcs
200-140-664	ADWH60-20-100	M20	60	130	17	13	100	30	15288 N	1560 kgf	494 g	25 pcs
200-140-665	ADWH60-20-130	M20	60	160	17	13	130	30	16856 N	1720 kgf	559 g	20 pcs

HEAVY DUTY LEVELING GLIDE

TEST METHOD 14 | STAINLESS 304 STEEL

ADHSK, ADHS, ADH

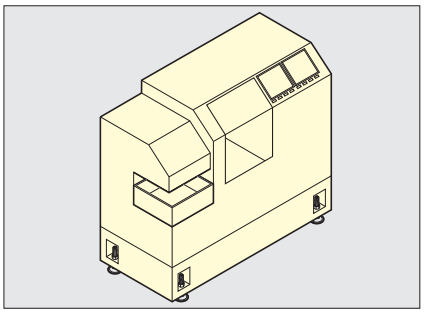


■Features

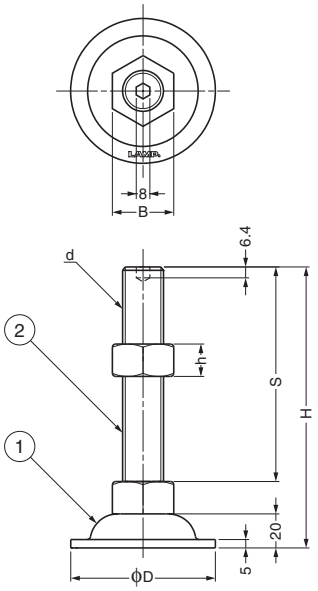
- For heavy weight.
- ADHSK: Galling preventive treatment allows smoother vertical adjustment.
- Two types of M24 and M30 screw dia. enables application to large machines and furniture.
- Recess for Allen key wrench at the screw head allows effective adjustment.

■Application Example

Machine tools, conveyors, semiconductors, LCD production equipment.



Three types available:
ADHSK (scuffing preventive stainless steel), ADHS (stainless), ADH (steel).



■ADHSK

No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Threaded Bolt	Stainless Steel (SUS304)	Baking finish

Item Code	Item Name	d	D	H	S	h	B	Load Capacity		Weight	Carton
200-012-538	ADHS-85-24-150K	M24	83	189	150	19	36	29400 N	3000 kgf	951 g	24 pcs
200-012-539	ADHS-85-24-200K	M24	83	239	200	19	36	34300 N	3500 kgf	1092 g	24 pcs
200-012-540	ADHS-85-30-150K	M30	83	194	150	24	46	39200 N	4000 kgf	1457 g	24 pcs
200-012-541	ADHS-85-30-200K	M30	83	244	200	24	46	44100 N	4500 kgf	1690 g	24 pcs

■ADHS

No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Threaded Bolt	Stainless Steel (SUS304)	Satin

Item Code	Item Name	d	D	H	S	h	B	Load Capacity		Weight	Carton
200-012-534	ADHS-85-24-150	M24	83	189	150	19	36	29400 N	3000 kgf	841 g	24 pcs
200-012-535	ADHS-85-24-200	M24	83	239	200	19	36	34300 N	3500 kgf	1091 g	24 pcs
200-012-536	ADHS-85-30-150	M30	83	194	150	24	46	39200 N	4000 kgf	1461 g	24 pcs
200-012-537	ADHS-85-30-200	M30	83	244	200	24	46	44100 N	4500 kgf	1685 g	24 pcs

■ADH

No.	Part Name	Material	Finish
①	Body	Steel	Clear Zinc Chromate
②	Threaded Bolt	Steel	Clear Zinc Chromate

Item Code	Item Name	d	D	H	S	h	B	Load Capacity		Weight	Carton
200-012-530	ADH-85-24-150	M24	84	189	150	19	36	29400 N	3000 kgf	955 g	24 pcs
200-012-531	ADH-85-24-200	M24	84	239	200	19	36	34300 N	3500 kgf	1105 g	24 pcs
200-012-532	ADH-85-30-150	M30	84	194	150	24	46	39200 N	4000 kgf	1541 g	24 pcs
200-012-533	ADH-85-30-200	M30	84	244	200	24	46	44100 N	4500 kgf	3000 g	24 pcs

STAINLESS STEEL LEVELING GLIDE

STAINLESS 304 STEEL

ADPS, ADP

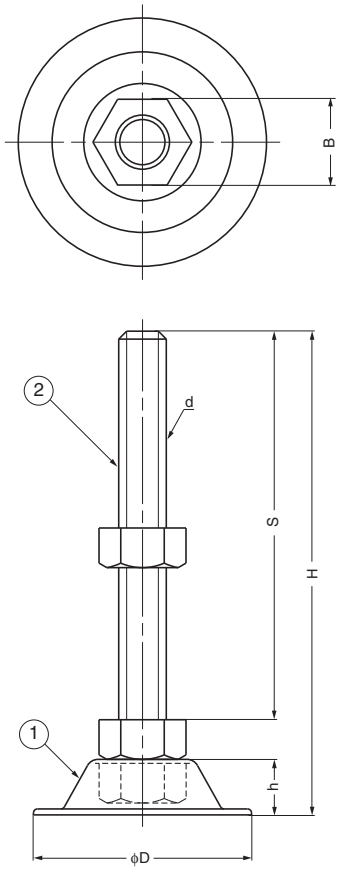


■Features

- Hexagon nut at the bottom for easy installation.
- 304 Stainless steel type or Steel type.

■Option (P.784)

- Washer : ADZS (Stainless steel)
- Washer : ADZ (Steel)



No.	Part Name	Material	Finish
①	Body (ADPS)	Stainless Steel (SUS304)	Satin
①	Body (ADP)	Steel	Clear Zinc Chromate
②	Threaded Bolt (ADPS)	Stainless Steel (SUS304)	Satin
②	Threaded Bolt (ADP)	Steel	Clear Zinc Chromate

■ADPS

Item Code	Item Name	d	D	H	h	S	B	Load Capacity N	Load Capacity kgf	Weight	Carton
200-141-182	ADPS37- 8- 60	M 8	37	76	10.5	60	13	2940 N	300 kgf	56 g	200 pcs
200-141-183	ADPS37-10- 50	M10	37	67.5	10.5	50	17	2940 N	300 kgf	78 g	200 pcs
200-141-184	ADPS55-12-100	M12	55	122	14	100	19	2940 N	300 kgf	174 g	100 pcs
200-141-185	ADPS55-12-120	M12	55	142	14	120	19	2940 N	300 kgf	184 g	80 pcs
200-141-186	ADPS55-12-150	M12	55	172	14	150	19	2940 N	300 kgf	210 g	70 pcs
200-141-187	ADPS75-16-100	M16	75	128	18	100	24	5488 N	560 kgf	318 g	50 pcs
200-141-188	ADPS75-16-130	M16	75	158	18	130	24	5488 N	560 kgf	358 g	40 pcs
200-141-189	ADPS75-16-150	M16	75	178	18	150	24	5488 N	560 kgf	382 g	30 pcs
200-141-190	ADPS75-16-180	M16	75	208	18	180	24	5488 N	560 kgf	426 g	30 pcs
200-141-191	ADPS75-20-100	M20	75	131	18	100	30	8624 N	880 kgf	490 g	40 pcs
200-141-192	ADPS75-20-130	M20	75	161	18	130	30	8624 N	880 kgf	553 g	30 pcs
200-141-194	ADPS75-20-180	M20	75	211	18	180	30	8624 N	880 kgf	655 g	25 pcs

■ADP

Item Code	Item Name	d	D	H	h	S	B	Load Capacity N	Load Capacity kgf	Weight	Carton
200-140-002	ADP37- 8- 50	M 8	37	66	10.5	50	13	2940 N	300 kgf	55 g	200 pcs
200-140-594	ADP37-10- 50	M10	37	67.5	10.5	50	17	2940 N	300 kgf	80 g	200 pcs
200-140-505	ADP55-12- 50	M12	55	72	14	50	19	2940 N	300 kgf	135 g	100 pcs
200-141-520	ADP55-12-100	M12	55	122	14	100	19	2940 N	300 kgf	165 g	100 pcs
200-141-521	ADP55-12-120	M12	55	142	14	120	19	2940 N	300 kgf	180 g	80 pcs
200-141-522	ADP55-12-150	M12	55	172	14	150	19	2940 N	300 kgf	200 g	70 pcs
200-141-523	ADP75-16-100	M16	75	128	18	100	24	5488 N	560 kgf	310 g	50 pcs
200-141-524	ADP75-16-130	M16	75	158	18	130	24	5488 N	560 kgf	350 g	40 pcs
200-141-525	ADP75-16-150	M16	75	178	18	150	24	5488 N	560 kgf	375 g	30 pcs
200-141-526	ADP75-16-180	M16	75	208	18	180	24	5488 N	560 kgf	410 g	30 pcs

LEVELING GLIDE

STAINLESS 304 STEEL

ADRS, ADR

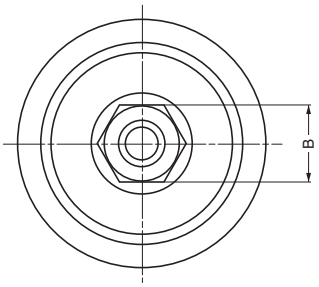


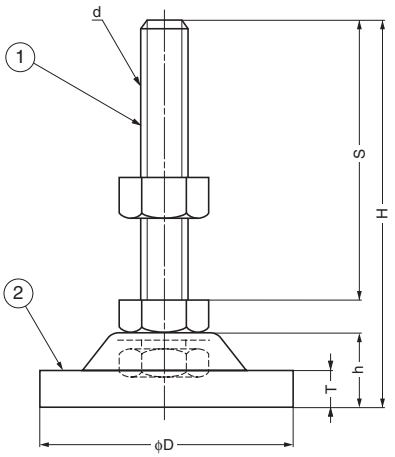
■Features

- Bottom cover made of elastomer to prevent from scratching the floor.
- Hexagon nut at the bottom for easy installation.
- 304 Stainless steel type or Steel type.

■Option (P.784)

- Washer : ADZS (Stainless steel)
- Washer : ADZ (Steel)





No.	Part Name	Material	Finish
①	Threaded Bolt (ADRS)	Stainless Steel (SUS304)	Satin
①	Threaded Bolt (ADR)	Steel	Clear Zinc Chromate
②	Cover (ADRS)	Elastomer (TPE)	Black
②	Cover (ADR)	Elastomer (TPE)	Black

■ADRS

Item Code	Item Name	d	D	H	h	T	S	B	Load Capacity N	Load Capacity kgf	Weight	Carton
200-147-034	ADRS37- 8- 60	M 8	41	78	12.5	6	60	13	2940 N	300 kgf	58 g	200 pcs
200-147-035	ADRS37-10- 50	M10	41	69.5	12.5	6	50	17	2940 N	300 kgf	83 g	170 pcs
200-147-036	ADRS55-12-100	M12	62	126.5	18.5	9	100	19	2940 N	300 kgf	190 g	80 pcs
200-147-037	ADRS55-12-120	M12	62	146.5	18.5	9	120	19	2940 N	300 kgf	200 g	70 pcs
200-147-041	ADRS75-16-150	M16	80	182.5	22.5	9	150	24	5488 N	560 kgf	400 g	30 pcs
200-147-045	ADRS75-20-150	M20	80	185.5	22.5	9	150	30	8624 N	880 kgf	616 g	30 pcs

■ADR

Item Code	Item Name	d	D	H	h	T	S	B	Load Capacity N	Load Capacity kgf	Weight	Carton
200-140-003	ADR37- 8- 50	M 8	41	68	12.5	6	50	13	2940 N	300 kgf	55 g	200 pcs
200-140-593	ADR37-10- 50	M10	41	69.5	12.5	6	50	17	2940 N	300 kgf	81 g	170 pcs
200-140-506	ADR55-12- 50	M12	62	76.5	18.5	9	50	19	2940 N	300 kgf	145 g	70 pcs
200-141-544	ADR55-12-100	M12	62	126.5	18.5	9	100	19	2940 N	300 kgf	181 g	80 pcs
200-141-545	ADR55-12-120	M12	62	146.5	18.5	9	120	19	2940 N	300 kgf	196 g	70 pcs
200-141-546	ADR55-12-150	M12	62	176.5	18.5	9	150	19	2940 N	300 kgf	220 g	60 pcs
200-141-547	ADR75-16-100	M16	80	132.5	22.5	9	100	24	5488 N	560 kgf	329 g	40 pcs
200-141-548	ADR75-16-130	M16	80	162.5	22.5	9	130	24	5488 N	560 kgf	369 g	35 pcs
200-141-550	ADR75-16-180	M16	80	212.5	22.5	9	180	24	5488 N	560 kgf	436 g	25 pcs
200-141-551	ADR75-16-200	M16	80	232.5	22.5	9	200	24	5488 N	560 kgf	463 g	20 pcs

LEVELING GLIDE

ADCR

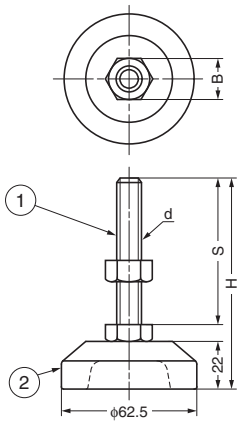


■Features

Bottom cover made of nitrile rubber to prevent from scratching the floor.

■Sold Separately

Washer : ADZ (P.784)



No.	Part Name	Material	Finish/Colour
①	Threaded Bolt	Steel	Clear Zinc Chromate
②	Cover	Nitrile Rubber (NBR)	Black

Item Code	Item Name	H	S	B	d	Load Capacity N	Load Capacity kgf	Weight	Carton
200-140-508	ADCR60-12- 50	80	50	19	M12	6664 N	680 kgf	332 g	50 pcs
200-140-072	ADCR60-20-180	215	180	30	M20	14112 N	1440 kgf	794 g	25 pcs

STAINLESS STEEL LEVELING GLIDE

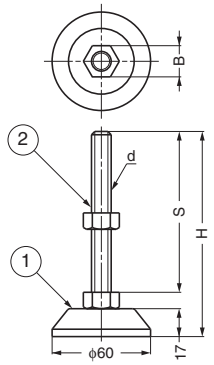
STAINLESS 304 STEEL

ADCS, ADC



■Features

ADC (Steel) : Cross-recessed bottom allows easy installation with Philips screw driver.



■ADC (Steel)

No.	Part Name	Material	Finish
①	Body	Steel	Clear Zinc Chromate
②	Threaded Bolt	Steel	Clear Zinc Chromate

Item Code	Item Name	H	S	B	d	Load Capacity	Load Capacity	Weight	Carton
200-141-533	ADC60-12-120	145	120	19	M12	2940 N	300 kgf	355 g	60 pcs
200-141-535	ADC60-16-100	127	100	24	M16	5488 N	560 kgf	440 g	50 pcs
200-141-536	ADC60-16-130	157	130	24	M16	5488 N	560 kgf	480 g	50 pcs
200-141-538	ADC60-16-180	207	180	24	M16	5488 N	560 kgf	540 g	35 pcs
200-141-540	ADC60-20-100	130	100	30	M20	8624 N	880 kgf	580 g	40 pcs
200-141-541	ADC60-20-130	160	130	30	M20	8624 N	880 kgf	640 g	40 pcs
200-141-542	ADC60-20-150	180	150	30	M20	8624 N	880 kgf	680 g	35 pcs
200-140-071	ADC60-20-180	210	180	30	M20	8624 N	880 kgf	740 g	30 pcs

■ADCS (Stainless Steel)

No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Threaded Bolt	Stainless Steel (SUS304)	Satin

Item Code	Item Name	H	S	B	d	Load Capacity	Load Capacity	Weight	Carton
200-141-220	ADCS60-12-120	145	120	19	M12	2940 N	300 kgf	365 g	60 pcs
200-141-222	ADCS60-16-100	127	100	24	M16	5488 N	560 kgf	440 g	50 pcs
200-141-223	ADCS60-16-130	157	130	24	M16	5488 N	560 kgf	480 g	50 pcs
200-141-225	ADCS60-16-180	207	180	24	M16	5488 N	560 kgf	550 g	35 pcs
200-141-226	ADCS60-20-100	130	100	30	M20	8624 N	880 kgf	590 g	40 pcs
200-141-227	ADCS60-20-130	160	130	30	M20	8624 N	880 kgf	650 g	40 pcs
200-141-229	ADCS60-20-180	210	180	30	M20	8624 N	880 kgf	750 g	30 pcs

SWAY-FOOT LEVELING GLIDE

MDSF

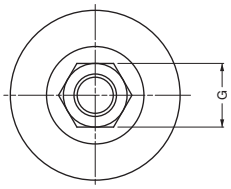


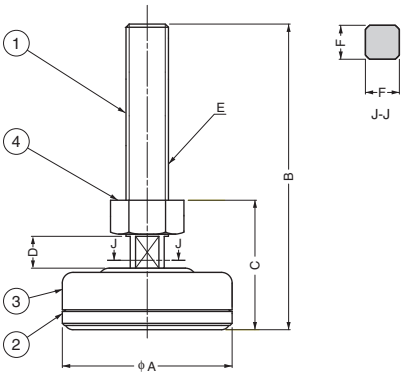
■Features

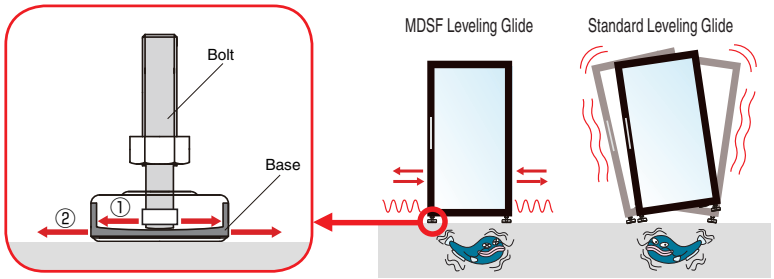
- Suitable for large / heavy displays and showcases in museum and showroom.
- The base isolation structure absorbs vibrations and shocks.
- Reduce the risk of falling furniture or equipment.

■Remarks

Sold in set of 4 pieces.







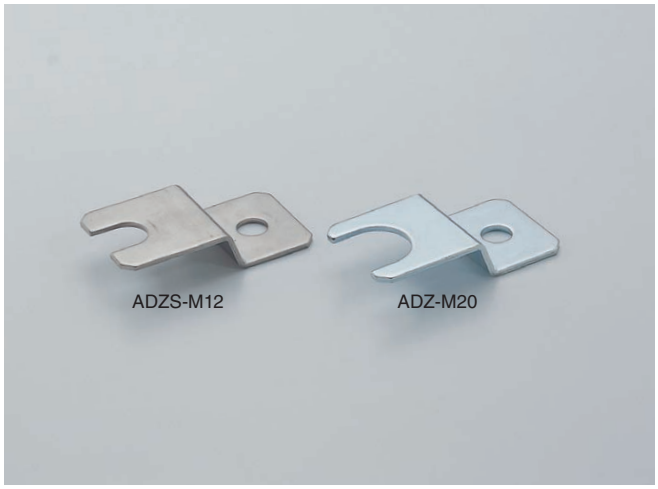
Item Code	Item Name	A	B	C	D	E	F	G	Max. Size	Load Capacity kgf	Weight	Box
200-014-807	MDSF 58-10-40	58	65.5	34.5	7.5	M10	8	17	W 410×D 630×H 390	204 kgf/4 pcs	847 g	4 pcs (1 set)
200-014-805	MDSF 58-16-80	58	114	48	10.5	M16	13	24	W 730×D 730×H1460	510 kgf/4 pcs	1378 g	4 pcs (1 set)
200-014-806	MDSF 80-20-100	80	144	61	15	M20	16	30	W1000×D1000×H2000	765 kgf/4 pcs	2565 g	4 pcs (1 set)

No.	Part Name	Material	Finish
①	Threaded Bolt	Steel	Nickel
②	Base	Steel/Teflon	Nickel
③	Cover	Nitrile Rubber (NBR)	—
④	Hex Nut	Steel	Clear Zinc Chromate

WASHER FOR LEVELING GLIDE

STAINLESS 304 STEEL

ADZS, ADZ

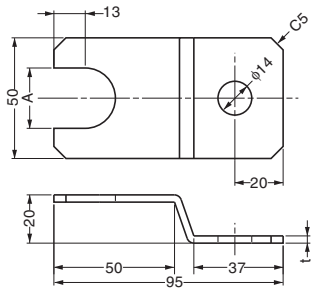


■Features

Easy installation by inserting on the hexagon nut (of the leveling glide) and fixing with an anchor bolt.

■Application Example

Machine tools, conveyor belts, any equipment with vibration.



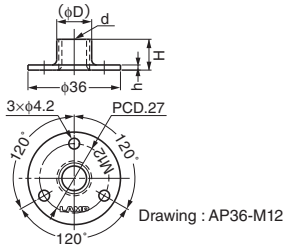
Item Code	Item Name	A	t	Material	Finish	Weight	Box	Carton
200-141-243	ADZS-M12	19	3	Stainless Steel (SUS304)	Polished	104 g	50 pcs	100 pcs
200-141-244	ADZS-M16	24.5	3	Stainless Steel (SUS304)	Polished	101 g	50 pcs	100 pcs
200-141-245	ADZS-M20	30.5	3	Stainless Steel (SUS304)	Polished	96 g	50 pcs	100 pcs
200-141-240	ADZ-M12	19	3.2	Steel	Clear Zinc Chromate	115 g	50 pcs	100 pcs
200-141-241	ADZ-M16	24.5	3.2	Steel	Clear Zinc Chromate	110 g	50 pcs	100 pcs
200-141-242	ADZ-M20	30.5	3.2	Steel	Clear Zinc Chromate	106 g	50 pcs	100 pcs

STAINLESS STEEL GLIDE BASE

STAINLESS 304 STEEL

AP36





Drawing : AP36-M12

■**Features**

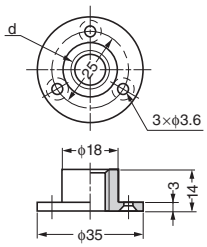
Made of 304 stainless steel for rust and corrosion resistance.

Item Code	Item Name	Material	Finish	d	D	h	H	Weight	Box	Carton
200-140-501	AP36-M8	Stainless Steel (SUS304)	Polished	M8	9.6	1.5	12	13 g	100 pcs	1,000 pcs
200-140-502	AP36-M10	Stainless Steel (SUS304)	Polished	M10	11	1.5	12	13 g	100 pcs	1,000 pcs
200-140-503	AP36-N3	Stainless Steel (SUS304)	Polished	3/8-16UNC	10.9	1.5	12	13 g	100 pcs	1,000 pcs
200-140-504	AP36-M12	Stainless Steel (SUS304)	Polished	M12	13.9	2	11.5	19 g	80 pcs	800 pcs

GLIDE BASE

AD-559



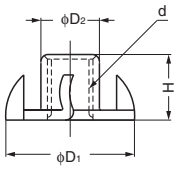


Item Code	Item Name	Material	Finish	d	Weight	Box	Carton
200-141-310	AD-559M12	Zinc Alloy (ZDC)	Clear Zinc Chromate	M12	26.5 g	100 pcs	400 pcs
200-141-311	AD-559M14	Zinc Alloy (ZDC)	Clear Zinc Chromate	M14	23.5 g	100 pcs	400 pcs
200-140-073	AD-559U1/2	Zinc Alloy (ZDC)	Clear Zinc Chromate	1/2-20UNF	24.6 g	100 pcs	400 pcs

GLIDE BASE

SC-124



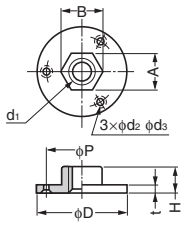


Item Code	Item Name	Material	Finish	d	D_1	D_2	H	Weight	Carton
200-041-280	SC-124-4	Steel	Yellow Zinc Chromate	M4	15	5.6	8	2.1 g	10,000 pcs
200-041-281	SC-124-6	Steel	Yellow Zinc Chromate	M6	19	7.5	9	3.5 g	5,000 pcs
200-041-282	SC-124-8	Steel	Yellow Zinc Chromate	M8	22.2	9.9	11	6.6 g	3,000 pcs
200-041-283	SC-124-10	Steel	Yellow Zinc Chromate	M10	25.5	11.6	13	8.8 g	2,000 pcs

GLIDE BASE

AD-555





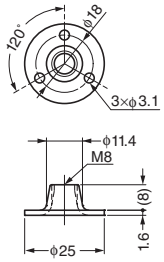
■**Recommended Screw**

Countersunk nominal 3.1 (AD-555-25 : Countersunk nominal 2.7)

Item Code	Item Name	Material	Finish	d_1	D	H	t	P	d_2	d_3	A	B	Weight	Box	Carton
200-014-902	AD-555-25-M8	Zinc Alloy (ZDC)	Zinc Chromate	M8	25	8	2.7	19	3.2	5.3	11.2	12.5	10 g	320 pcs	1,920 pcs
200-140-076	AD-555-28-M10	Zinc Alloy (ZDC)	Zinc Chromate	M10	28	9	2.7	20	3.2	6.4	13	14	15 g	240 pcs	1,440 pcs
200-140-074	AD-555-25	Zinc Alloy (ZDC)	Zinc Chromate	W5/16	25	8	2.7	19	3.2	5.3	11.2	12.5	10 g	320 pcs	1,920 pcs
200-140-075	AD-555-28	Zinc Alloy (ZDC)	Zinc Chromate	W3/8	28	9	2.7	20	3.2	6.4	13	14	15 g	240 pcs	1,440 pcs
200-140-077	AD-555-39	Zinc Alloy (ZDC)	Zinc Chromate	W1/2	39	11	3	30	3.2	6.4	15.8	16.8	30 g	100 pcs	600 pcs

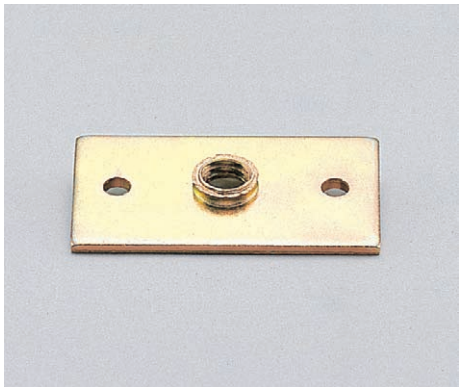
GLIDE BASE — AP5-M8

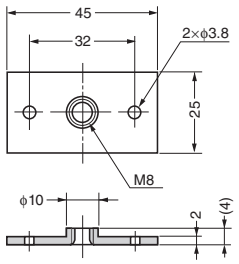


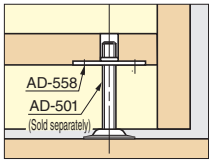


Item Code	Item Name	Material	Finish	Weight	Box	Carton
200-140-694	AP5-M8	Steel	Clear Zinc Chromate	6 g	400 pcs	4,000 pcs

GLIDE BASE — AD-558



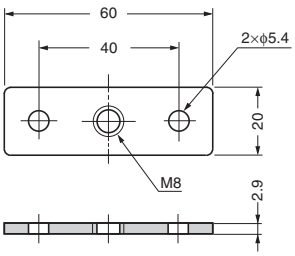


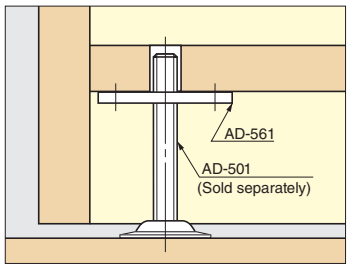


Item Code	Item Name	Material	Finish	Weight	Box	Carton
200-140-080	AD-558	Steel	Yellow Zinc Chromate	16 g	250 pcs	1,000 pcs

GLIDE BASE — AD-561

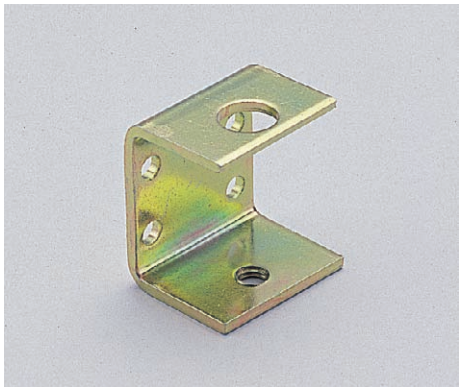


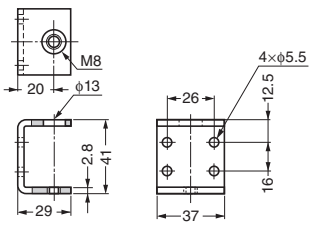


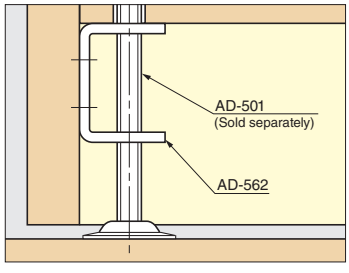


Item Code	Item Name	Material	Finish	Weight	Box	Carton
200-140-068	AD-561	Steel	Zinc Chromate	30 g	100 pcs	1,000 pcs

GLIDE BASE — AD-562





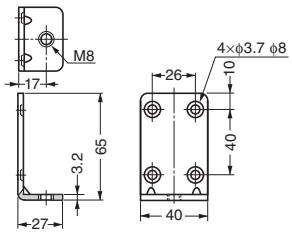


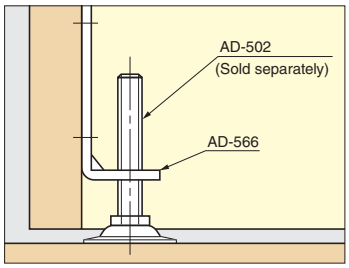
Item Code	Item Name	Material	Finish	Weight	Box	Carton
200-140-086	AD-562	Steel	Yellow Zinc Chromate	67 g	50 pcs	500 pcs

GLIDE BASE

AD-566



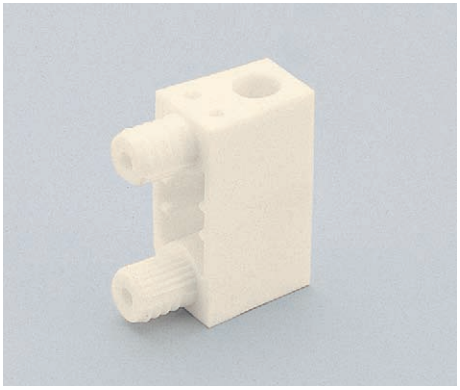


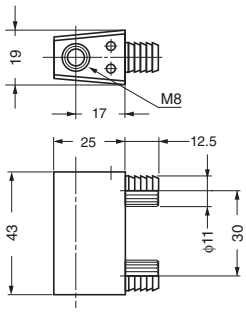


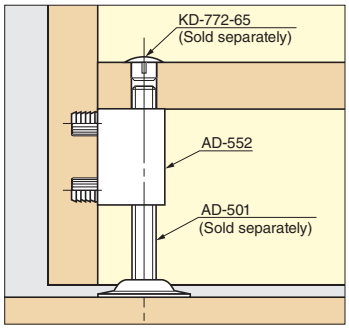
Item Code	Item Name	Material	Finish	Weight	Box	Carton
200-140-082	AD-566	Steel	Yellow Zinc Chromate	82 g	100 pcs	200 pcs

GLIDE BASE

AD-552





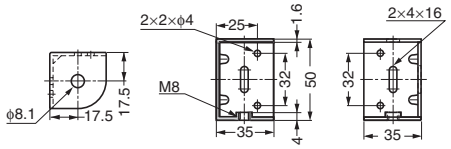


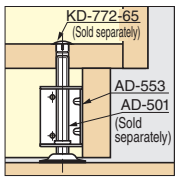
Item Code	Item Name	Material	Colour	Weight	Box	Carton
200-140-083	AD-552	Polyamide (PA)	White	20 g	50 pcs	500 pcs

GLIDE BASE

AD-553



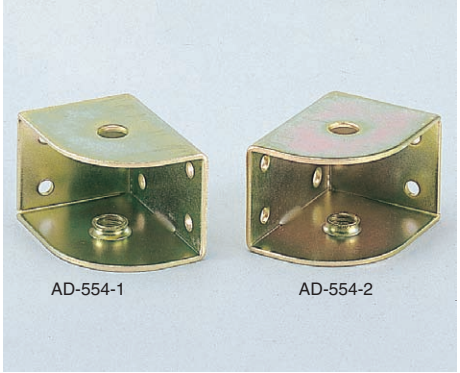




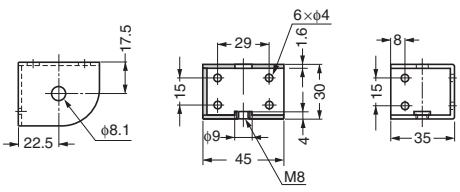
Item Code	Item Name	Material	Finish	Weight	Box	Carton
200-140-084	AD-553	Steel	Yellow Zinc Chromate	63 g	40 pcs	240 pcs

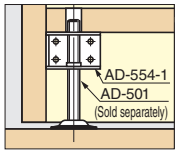
GLIDE BASE

AD-554



■Remarks
AD-554-1 :
a mirror-image of AD-554-2





Item Code	Item Name	Material	Finish	Weight	Box	Carton
200-140-085	AD-554-1	Steel	Yellow Zinc Chromate	60 g	50 pcs	500 pcs
200-140-087	AD-554-2	Steel	Yellow Zinc Chromate	60 g	50 pcs	500 pcs

SELF-LEVELING GLIDE

SAJ



■Features

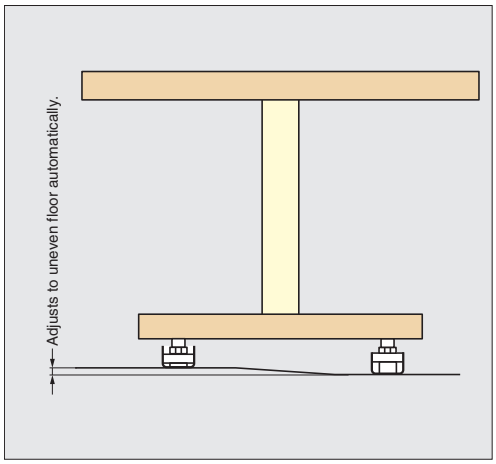
- Gel inside adjusts automatically to uneven floor.
- Self adjustment up to 3 mm or 6 mm.
- Suited for environments between −20˚C and 75˚C.

■SAJ-WRENCH (Sold Separately)

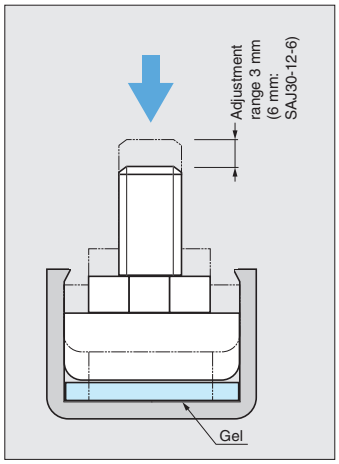


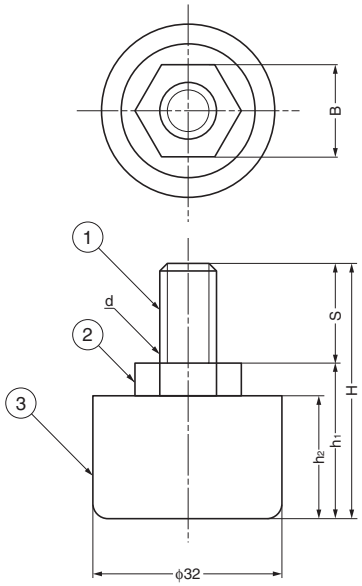
	Wrench (Sold Separately)			
	Item Code	Item Name	Nominal	Thickness
A	200-140-390	SAJ10	10	1.6
B	200-140-391	SAJ13	13	2.0
C	200-140-392	SAJ14	14	2.0
D	200-140-393	SAJ17	17	2.2

■Installation



■Self Adjustment





No.	Part Name	Material	Finish/Colour
①	Threaded Bolt	Steel (SWCH)	Yellow Zinc Chromate/SAJ30-10
②	Hex Nut		Clear Zinc Chromate/SAJ30-12
③	Cover	Polyethylene (PE)	Black

Item Code	Item Name	Wrench	d	H	h_1	h_2	S	B	Load Capacity		Appropriate Table Weight			Weight	Box	Carton
											4 pcs	5 pcs	6 pcs			
200-149-309	SAJ30-10N2.5	C	W5/16	33	24	19	9	14	490 N	50 kgf	7～ 12 kg	8～ 15 kg	10～ 18 kg	26 g	40 pcs	400 pcs
200-149-308	SAJ30-10N3	D	W3/8	37	25	19	12	17	490 N	50 kgf	7～ 12 kg	8～ 15 kg	10～ 18 kg	36 g	40 pcs	400 pcs
200-149-307	SAJ30-10M6	A	M6	34	24	19	10	10	490 N	50 kgf	7～ 12 kg	8～ 15 kg	10～ 18 kg	21 g	40 pcs	400 pcs
200-149-306	SAJ30-10M8	B	M8	33	24	19	9	13	490 N	50 kgf	7～ 12 kg	8～ 15 kg	10～ 18 kg	25 g	40 pcs	400 pcs
200-149-305	SAJ30-10M10	D	M10	37	26	19	11	17	490 N	50 kgf	7～ 12 kg	8～ 15 kg	10～ 18 kg	38 g	40 pcs	400 pcs
200-149-304	SAJ30-12N2.5	C	W5/16	33	24	19	9	14	490 N	50 kgf	12～ 24 kg	15～ 30 kg	18～ 36 kg	26 g	40 pcs	400 pcs
200-149-303	SAJ30-12N3	D	W3/8	37	25	19	12	17	490 N	50 kgf	12～ 24 kg	15～ 30 kg	18～ 36 kg	36 g	40 pcs	400 pcs
200-149-302	SAJ30-12M6	A	M6	34	24	19	10	10	490 N	50 kgf	12～ 24 kg	15～ 30 kg	18～ 36 kg	21 g	40 pcs	400 pcs
200-149-301	SAJ30-12M8	B	M8	33	24	19	9	13	490 N	50 kgf	12～ 24 kg	15～ 30 kg	18～ 36 kg	25 g	40 pcs	400 pcs
200-149-300	SAJ30-12M10	D	M10	37	26	19	11	17	490 N	50 kgf	12～ 24 kg	15～ 30 kg	18～ 36 kg	38 g	40 pcs	400 pcs
200-140-105	SAJ30-12-6N2.5	C	W5/16	42	31	24	11	14	490 N	50 kgf	12～ 24 kg	15～ 30 kg	18～ 36 kg	29 g	40 pcs	400 pcs
200-140-104	SAJ30-12-6N3	D	W3/8	42	31	24	11	17	490 N	50 kgf	12～ 24 kg	15～ 30 kg	18～ 36 kg	39 g	40 pcs	400 pcs
200-140-103	SAJ30-12-6M6	A	M6	44	32	24	12	10	490 N	50 kgf	12～ 24 kg	15～ 30 kg	18～ 36 kg	29 g	40 pcs	400 pcs
200-140-102	SAJ30-12-6M8	B	M8	42	32	24	10	13	490 N	50 kgf	12～ 24 kg	15～ 30 kg	18～ 36 kg	22 g	40 pcs	400 pcs
200-140-101	SAJ30-12-6M10	D	M10	41	31	24	10	17	490 N	50 kgf	12～ 24 kg	15～ 30 kg	18～ 36 kg	41 g	40 pcs	400 pcs

MISCELLANEOUS

SUGATSUNE

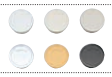
VENTILATORS

Picture	Item Name	Page
	48079, 48176, 48081, 48282	800
	48080	800
	APM	801
	APB	801
	APD-KH	802
	APK-KH	803 ～ 804
	APD-170, APDL-260	805
	APK-250, APKL-310	805
	APK-T250	806
	G61	806
	APK-K	807
	UTA-105	807
	4813	808
	4814	808
	4818	808
	480970	809
	4872	809
	1-1122	810
	1-1212	810
	1-2211	810
	1-2222	810
	G58-3020	811
	G57-AA	811
	12-AA	811
	3-2115	812
	3-2520	812
	3-3030	812

Picture	Item Name	Page
	3-3009	813
	3-3704	813
	3-5009	813
	AST	814
	ASD	814
	SAD	814
	AST	815
	ASM	815
	SAM	815

CABLE GROMMETS

Picture	Item Name	Page
	CHC	816
	CHC-S18	816
	S93-14SL	817
	S80	817
	HTK	817
	S100-50	818
	S1015-51	818
	ART973	819
	V2000	819
	S165-76	819
	LN72	820
	LN72S	820
	LN72P	820
	LN72SF	821
	LSU, LS	822
	LSU-S, LS-S	822

Picture	Item Name	Page
	S445, S51, S60, S76, S89	823
	ST70, ST88	823
	S70, S91	824
	V60, V80	824

TRAY UNITS

Picture	Item Name	Page
	TU-380	825
	PT-1	825

MULTI-PURPOSE DOORS, LIDS & GROMMETS

Picture	Item Name	Page
	AD-DH (Soft-Close)	792
	AD-DH015	792
	AN-DH, AN-LH	793
	AD-KH017-HL (Soft-Close)	793
	AN-KH	794
	AN-SH026	794
	AE-DH	795
	AE-DH4540-1	795
	AE-DH020K-45	796
	AZ-GD (Soft-Close)	796
	AZ-GD231 (Soft-Close)	797
	AZ-SLP	797
	AZ-GD232 (Soft-Close)	798
	AZ-ND	798
	AZ-DD310	799
	AZ-HD	799

UMBRELLA STAND

Picture	Item Name	Page
		826 ～ 827

OTHERS

Picture	Item Name	Page
	HF	828
	KA-60	828

MULTI-PURPOSE LID (W/DAMPER)

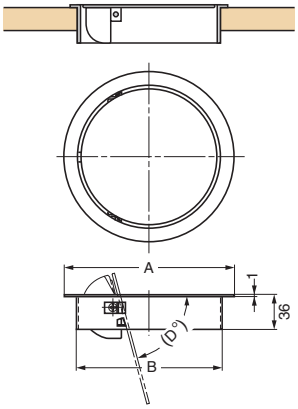
STAINLESS 304 STEEL

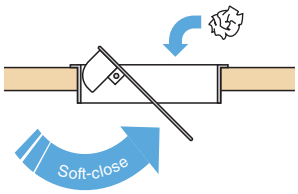
AD-DH



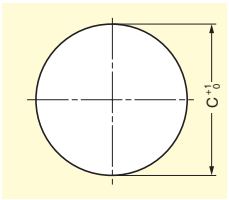
■Features
- Lid equipped with damper.
- Corrosion resistant.
- Wide opening.
- Operating temperature: 0℃～40℃

■Installation

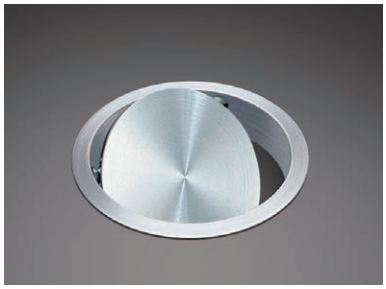




■Cut Out Dimensions



■Installation



Video Link

Item Code	Item Name	Material	Finish	A	B	C	D	Weight	Box	Carton
210-029-219	AD-DH011-HL	Stainless Steel (SUS304)	Satin	136	106	107	87	506 g	1 pc	10 pcs
210-022-107	AD-DH017-HL	Stainless Steel (SUS304)	Satin	170	146	147	75	994 g	1 pc	10 pcs

MULTI-PURPOSE LID

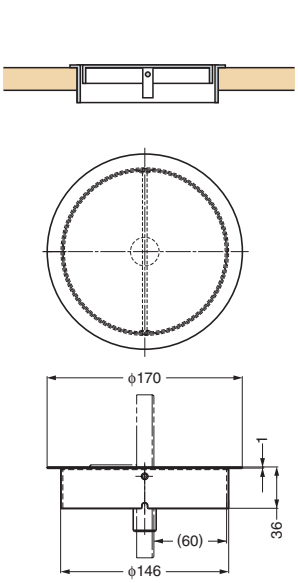
STAINLESS 304 STEEL

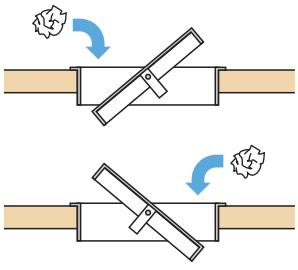
AD-DH015



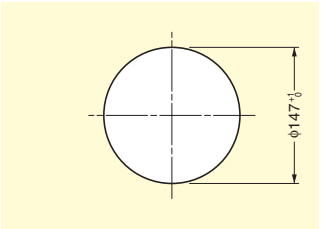
■Features
- 360° rotation.
- Corrosion resistant.

■Installation





■Cut Out Dimensions





Item Code	Item Name	Material	Finish	Weight	Box	Carton
210-170-079	AD-DH015	Stainless Steel (SUS304)	Satin	554 g	1 pc	10 pcs

RING COVER FOR REFUSE BOX

STAINLESS 304 STEEL

AN-DH, AN-LH



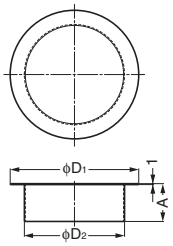
■Features

- Corrosion resistant.
- Wide variations (Size/Depth/Finish)

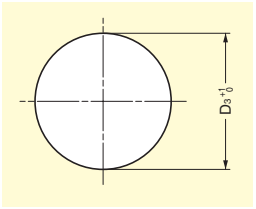
Item Code	Item Name	Material	Finish	Weight	Box	Carton
210-032-779	AN-DH005-GP	Stainless Steel (SUS304)	Gold	—	1 pc	100 pcs
210-032-780	AN-DH005-MR	Stainless Steel (SUS304)	Mirror	—	1 pc	100 pcs
210-032-781	AN-DH005-HL	Stainless Steel (SUS304)	Satin	—	1 pc	100 pcs
210-022-094	AN-DH008-GP	Stainless Steel (SUS304)	Gold+Clear	147 g	1 pc	10 pcs
210-022-095	AN-DH008-MR	Stainless Steel (SUS304)	Mirror	102 g	1 pc	10 pcs
210-022-096	AN-DH008-HL	Stainless Steel (SUS304)	Satin	102 g	1 pc	10 pcs
210-170-078	AN-DH011-GP	Stainless Steel (SUS304)	Gold+Clear	197 g	1 pc	10 pcs
210-170-076	AN-DH011-MR	Stainless Steel (SUS304)	Mirror	187 g	1 pc	10 pcs
210-170-077	AN-DH011-HL	Stainless Steel (SUS304)	Satin	187 g	1 pc	10 pcs
210-172-533	AN-DH015-GP	Stainless Steel (SUS304)	Gold+Clear	250 g	1 pc	10 pcs
210-172-532	AN-DH015-MR	Stainless Steel (SUS304)	Mirror	233 g	1 pc	10 pcs
210-172-531	AN-DH015-HL	Stainless Steel (SUS304)	Satin	233 g	1 pc	10 pcs
210-032-782	AN-LH005-GP	Stainless Steel (SUS304)	Gold	—	1 pc	100 pcs
210-032-783	AN-LH005-MR	Stainless Steel (SUS304)	Mirror	—	1 pc	100 pcs
210-032-784	AN-LH005-HL	Stainless Steel (SUS304)	Satin	—	1 pc	100 pcs
210-022-097	AN-LH008-GP	Stainless Steel (SUS304)	Gold+Clear	114 g	1 pc	10 pcs
210-022-098	AN-LH008-MR	Stainless Steel (SUS304)	Mirror	79 g	1 pc	10 pcs
210-022-099	AN-LH008-HL	Stainless Steel (SUS304)	Satin	79 g	1 pc	10 pcs
210-022-100	AN-LH011-GP	Stainless Steel (SUS304)	Gold+Clear	144 g	1 pc	10 pcs
210-022-101	AN-LH011-MR	Stainless Steel (SUS304)	Mirror	95 g	1 pc	10 pcs
210-022-102	AN-LH011-HL	Stainless Steel (SUS304)	Satin	95 g	1 pc	10 pcs
210-022-103	AN-LH015-GP	Stainless Steel (SUS304)	Gold+Clear	187 g	1 pc	10 pcs
210-022-104	AN-LH015-MR	Stainless Steel (SUS304)	Mirror	125 g	1 pc	10 pcs
210-022-105	AN-LH015-HL	Stainless Steel (SUS304)	Satin	125 g	1 pc	10 pcs

■Installation





■Cut Out Dimensions



Model	A	D_1	D_2	D_3
AN-DH005	36	82	58	59
AN-DH008	36	112	82	83
AN-DH011	40	136	106	107
AN-DH015	36	170	146	147
AN-LH005	22	82	58	59
AN-LH008	22	112	82	83
AN-LH011	22	136	106	107
AN-LH015	22	170	146	147

※AN-DH008・AN-LH008 = AN-DH001・AN-LH001 (Previous item name).

MULTI-PURPOSE LID (W/DAMPER)

STAINLESS 304 STEEL

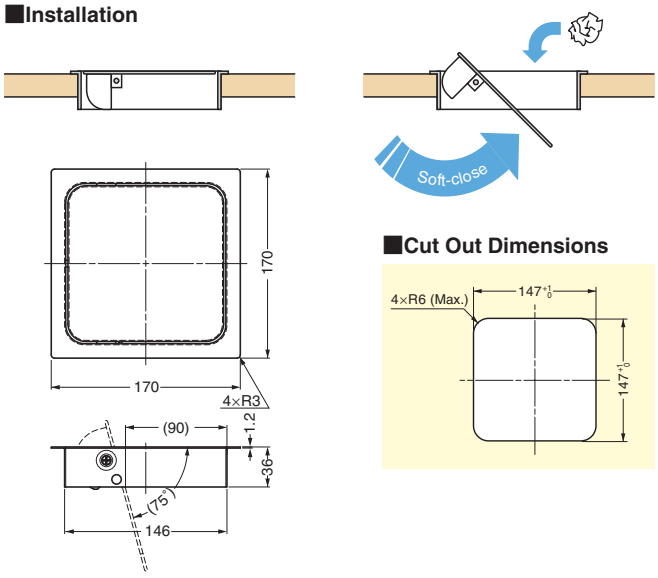
AD-KH017-HL



■Features

- Lid equipped with damper.
- Corrosion resistant.
- Wide opening.
- Operating temperature: 0℃～40℃

■Installation





Video Link

■Cut Out Dimensions

Item Code	Item Name	Material	Finish	Weight	Box	Carton
210-022-108	AD-KH017-HL	Stainless Steel (SUS304)	Satin	967 g	1 pc	6 pcs

SQUARE COVER FOR REFUSE BOX

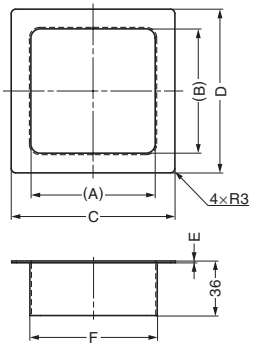
STAINLESS 304 STEEL

AN-KH

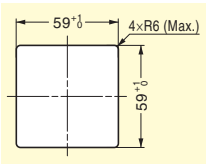


■Features

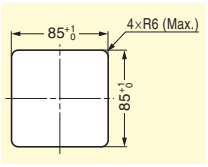
Corrosion resistant.



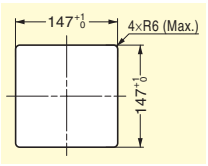
■Cut Out Dimensions



AN-KH005



AN-KH008



AN-KH017

Item Code	Item Name	Material	Finish	A	B	C	D	E	F	Weight	Box	Carton
210-032-785	AN-KH005	Stainless Steel (SUS304)	Satin	56	56	82	82	1.2	58	87 g	1 pc	100 pcs
210-028-436	AN-KH008	Stainless Steel (SUS304)	Satin	82	82	108	108	1.2	84	126 g	1 pc	10 pcs
210-022-109	AN-KH017	Stainless Steel (SUS304)	Satin	144	144	170	170	1.2	146	217 g	1 pc	10 pcs

※AN-KH008 = AN-KH001 (Previous item name).

MULTI-PURPOSE GROMMET

STAINLESS 304 STEEL

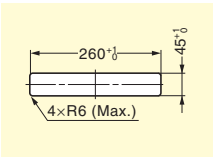
AN-SH026

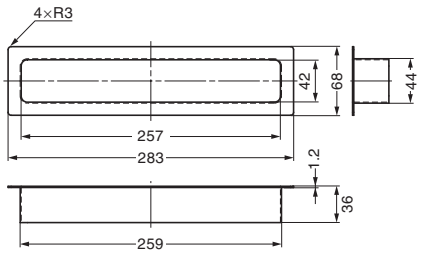


■Features

- Corrosion resistant.
- Ideal for magazine/news paper waste box.

■Cut Out Dimensions





Item Code	Item Name	Material	Finish	Weight	Box	Carton
210-028-437	AN-SH026	Stainless Steel (SUS304)	Satin	285 g	1 pc	10 pcs

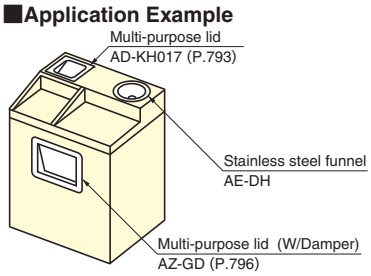
STAINLESS STEEL FUNNEL

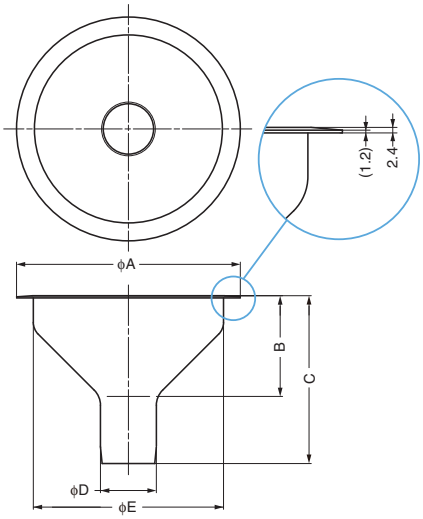
STAINLESS 304 STEEL

AE-DH

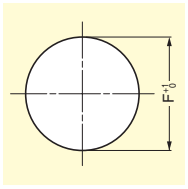


■Application Example

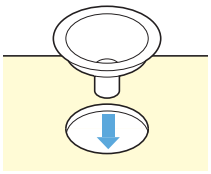




■Cut Out Dimensions



■Easy Installation



Item Code	Item Name	A	B	C	D	E	F	Material	Finish	Hose Diameter	Weight	Box	Carton
210-026-556	AE-DH015-MR	150	55	95	38	120	121	Stainless Steel (SUS304)	Mirror	ϕ38	269 g	1 pc	12 pcs
210-026-557	AE-DH015-HL	150	55	95	38	120	121	Stainless Steel (SUS304)	Satin	ϕ38	269 g	1 pc	12 pcs
210-022-106	AE-DH020-MR	200	90	150	50	170	171	Stainless Steel (SUS304)	Mirror	ϕ50	490 g	1 pc	12 pcs
210-023-509	AE-DH020-HL	200	90	150	50	170	171	Stainless Steel (SUS304)	Satin	ϕ50	490 g	1 pc	12 pcs

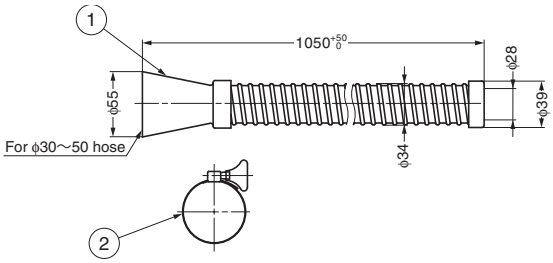
HOSE FOR AE-DH

AE-DH4540-1



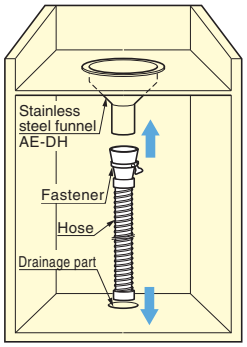
■Remarks

Operating temperature: 1～60℃.



■Application Example





No.	Part Name	Material	Finish/Colour
①	Hose	Polyvinyl Chloride Resin (PVC)	Grey
②	Fastener	Stainless Steel	Plain

Item Code	Item Name	Weight	Box	Carton
210-026-942	AE-DH4540-1	167 g	10 pcs	50 pcs

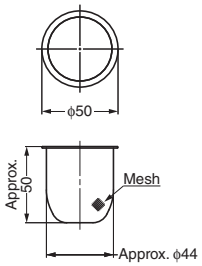
STRAINER FOR AE-DH

STAINLESS 304 STEEL

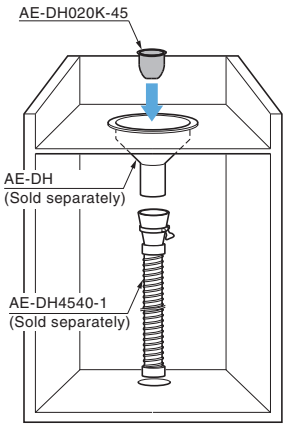
AE-DH020K-45



■Remarks
- Sold per 2 pieces.
- For AE-DH20-MR and AE-DH020-HL (P.795).



■Application Example





Item Code	Item Name	Material	Finish	Weight	Box	Carton
210-032-187	AE-DH020K-45	Stainless Steel (SUS304)	Polished	18 g	20 pcs/10 sets	120 pcs/60 sets

MULTI-PURPOSE LID (W/DAMPER)

STAINLESS 304 STEEL

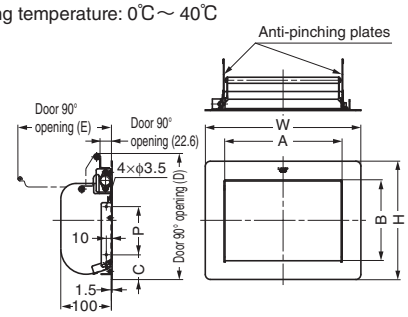
AZ-GD



■Features
- Lid equipped with damper.
- Installed with anti-pinching plates.
- Corrosion resistant.

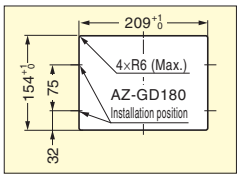
Video Link

■Remarks
Operating temperature: 0℃～40℃

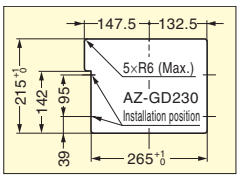




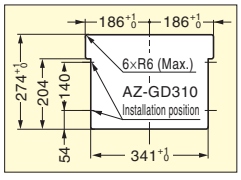
■Cut Out Dimensions



AZ-GD180 (HL)



AZ-GD230 (HL)



AZ-GD310 (HL)

Item Code	Item Name	Material	Finish	A	B	W	H	C	D	E	P	Weight	Box	Carton
210-033-487	AZ-GD180 (HL)	Stainless Steel (SUS304)	Satin	182	128	218	164	37	182	149.5	75	—	1 pc	10 pcs
210-017-089	AZ-GD230 (HL)	Stainless Steel (SUS304)	Satin	234	160	308	234	49	249	184.7	95	1731 g	1 pc	10 pcs
210-022-110	AZ-GD310 (HL)	Stainless Steel (SUS304)	Satin	310	220	384	294	64	310	244.7	140	2584 g	1 pc	10 pcs

MULTI-PURPOSE LID (W/DAMPER)

STAINLESS 304 STEEL

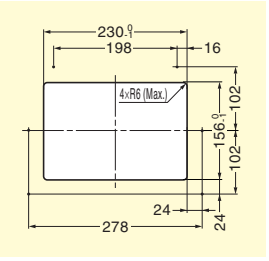
AZ-GD231



■Features
- Lid equipped with damper.
- Installed with anti-pinching plates.

■Remarks
- Indoor use only.
- Operating temperature: 0～ 40℃.

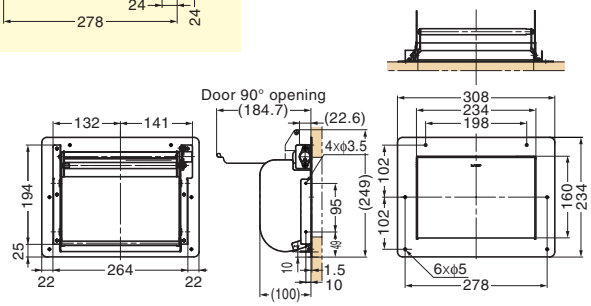
■Cut Out Dimensions



■Application Example







Item Code	Item Name	Material	Finish	Weight	Box	Carton
210-027-508	AZ-GD231	Stainless Steel (SUS304)	Satin	1724 g	1 pc	10 pcs

GUIDE FOR MULTI-PURPOSE LID

STAINLESS 304 STEEL

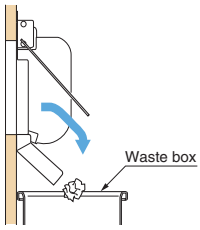
AZ-SLP

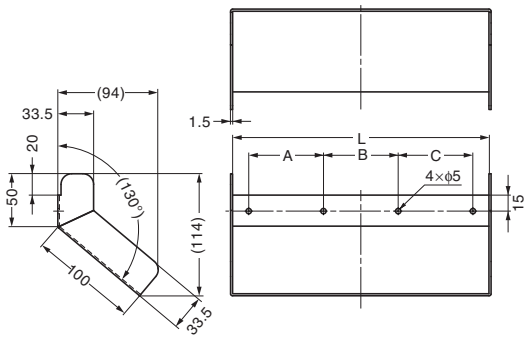


■Features

Guides garbage into waste box inside.

■Installation





■Application Example



Item Code	Item Name	Compatible Items	Material	Finish	L	A	B	C	Weight	Box	Carton
210-026-554	AZ-SLP230	AZ-GD230 (P.796), AZ-GD231 (Above)	Stainless Steel (SUS304)	Plain	241	70	70	70	449 g	1 pc	20 pcs
210-026-555	AZ-SLP310	AZ-GD310 (P.796)	Stainless Steel (SUS304)	Plain	317	80	80	80	563 g	1 pc	20 pcs

MULTI-PURPOSE LID (W/DAMPER) AZ-GD232

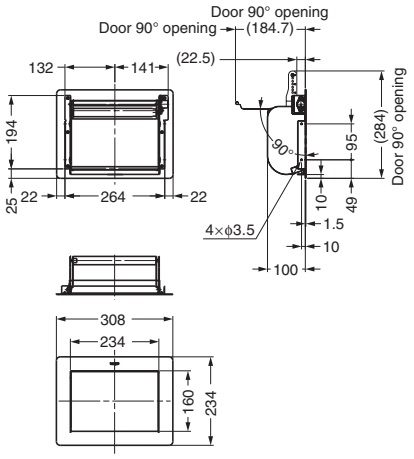


■Features

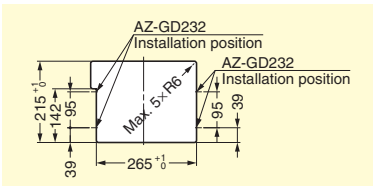
- Lid equipped with damper.
- Able to install the lid with angle of 85 to 45 degrees.
- Installed with anti-pinching plates.
- Corrosion resistant.

■Remarks

Operating temperature: 0℃～40℃



■Cut Out Dimensions



Item Code	Item Name	Material	Finish	Weight	Box	Carton
210-032-975	AZ-GD232	Stainless Steel (SUS304)	Satin	—	1 pc	10 pcs

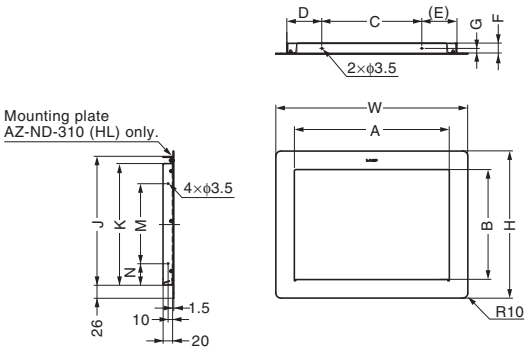
SQUARE COVER FOR REFUSE BOX AZ-ND

STAINLESS 304 STEEL

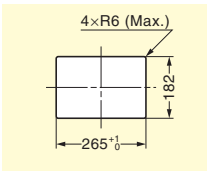


■Features

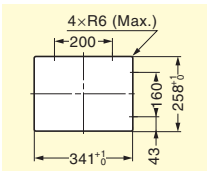
Corrosion resistant.



■Cut Out Dimensions



AZ-ND230 (HL)



AZ-ND310 (HL)

Item Code	Item Name	Material	Finish	A	B	W	H	C	D	E	F	G	J	K	M	N	Weight	Box	Carton
210-017-986	AZ-ND230 (HL)	Stainless Steel (SUS304)	Satin	234	160	308	234	—	—	—	—	—	—	170	120	30	719 g	1 pc	10 pcs
210-026-553	AZ-ND310 (HL)	Stainless Steel (SUS304)	Satin	310	220	384	294	200	70	70	20	10	257	243	160	43	1037 g	1 pc	10 pcs

MULTI-PURPOSE LID (DOUBLE DOOR)

STAINLESS 304 STEEL

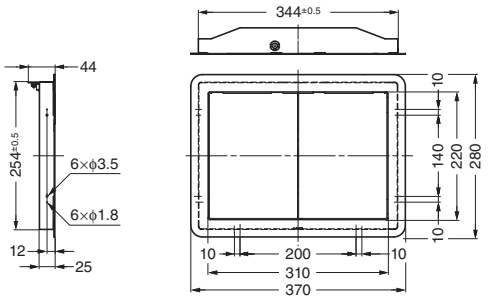
AZ-DD310



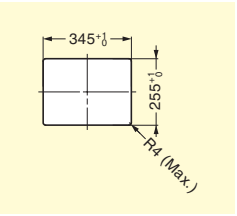


■Features

- Synchronized doors allow easy opening.
- Spring loaded for self-closing.
- Corrosion resistant.



■Cut Out Dimensions



Item Code	Item Name	Material	Finish	Weight	Box	Carton
210-180-600	AZ-DD310 (HL)	Stainless Steel (SUS304)	Satin	1958 g	1 pc	10 pcs

MULTI-PURPOSE LID (W/HANDLE)

STAINLESS 304 STEEL

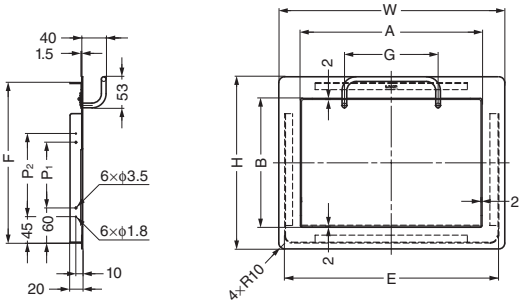
AZ-HD



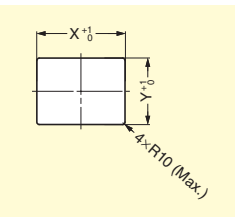


■Features

- Easy opening with handle.
- Corrosion resistant.



■Cut Out Dimensions



Item Code	Item Name	Material	Finish	A	B	W	H	E	F	G	P1	P2	X	Y	Weight	Box	Carton
210-180-601	AZ-HD230 (HL)	Stainless Steel (SUS304)	Satin	234	160	308	234	288	214	120	60	90	289	215	1540 g	1 pc	10 pcs
210-180-602	AZ-HD310 (HL)	Stainless Steel (SUS304)	Satin	310	220	384	294	364	274	160	112	142	365	275	2170 g	5 pcs	10 pcs

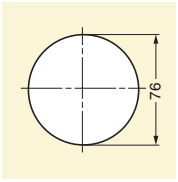
VENTILATOR 48079, 48176

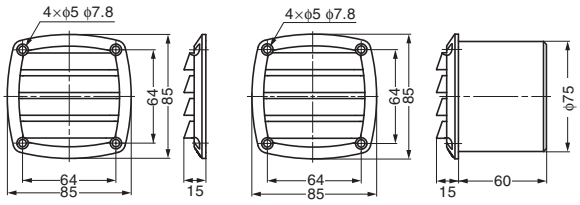


■Features

Standard type and flange type are available.

■Cut Out Dimensions
(48176)





Item Code	Item Name	Type	Material	Colour	Max. Exhaust Area	Weight	Carton
210-028-872	480794	Standard	Polyamide (PA)	White	≈ 1276 mm²	30 g	500 pcs
210-028-871	480792	Standard	Polyamide (PA)	Black	≈ 1276 mm²	30 g	500 pcs
210-028-874	481764	Flange	Polyamide (PA)	White	≈ 1276 mm²	85 g	100 pcs
210-028-873	481762	Flange	Polyamide (PA)	Black	≈ 1276 mm²	85 g	100 pcs

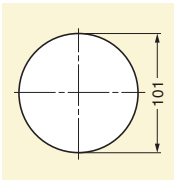
VENTILATOR 48081, 48282

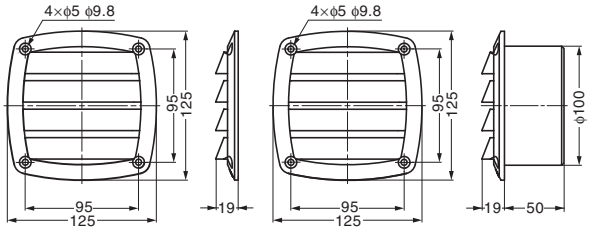


■Features

Standard type and flange type are available.

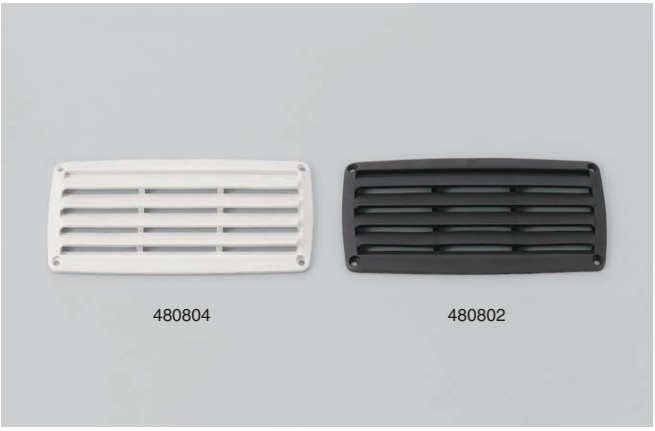
■Cut Out Dimensions
(48282)

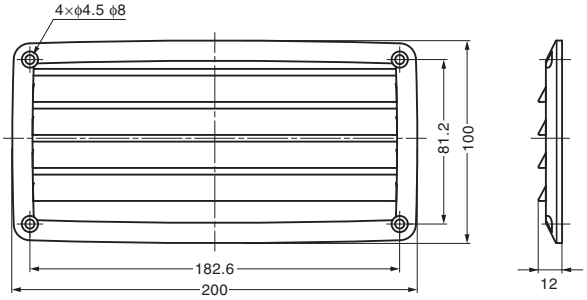




Item Code	Item Name	Type	Material	Colour	Max. Exhaust Area	Weight	Carton
210-028-868	480814	Standard	Polyamide (PA)	White	≈ 2136 mm²	68 g	200 pcs
210-028-867	480812	Standard	Polyamide (PA)	Black	≈ 2136 mm²	68 g	200 pcs
210-028-870	482824	Flange	Polyamide (PA)	White	≈ 2136 mm²	128 g	100 pcs
210-028-869	482822	Flange	Polyamide (PA)	Black	≈ 2136 mm²	128 g	100 pcs

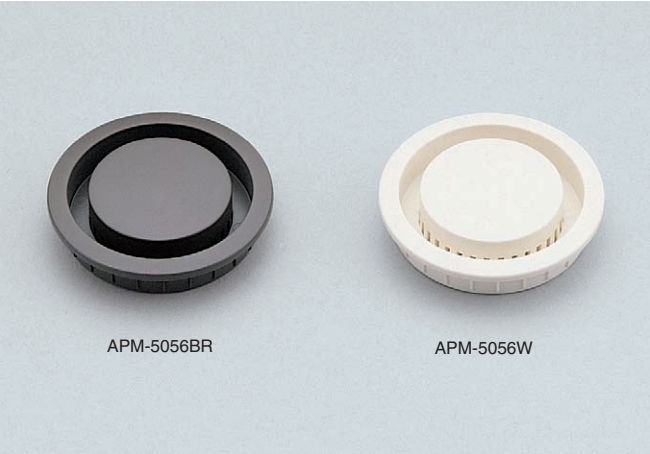
VENTILATOR 48080





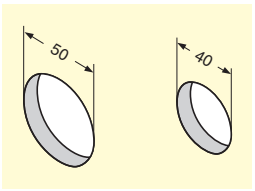
Item Code	Item Name	Material	Colour	Max. Exhaust Area	Weight	Carton
210-028-876	480804	Polyamide (PA)	White	≈ 3700 mm²	86 g	200 pcs
210-028-875	480802	Polyamide (PA)	Black	≈ 3700 mm²	86 g	200 pcs

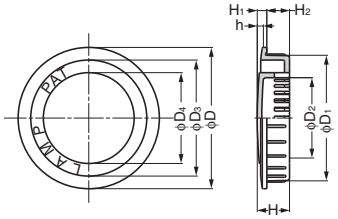
VENTILATOR APM

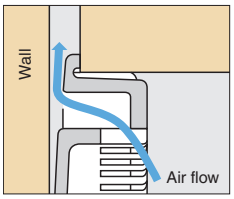


■Features
Insect-proof.

■Cut Out Dimensions

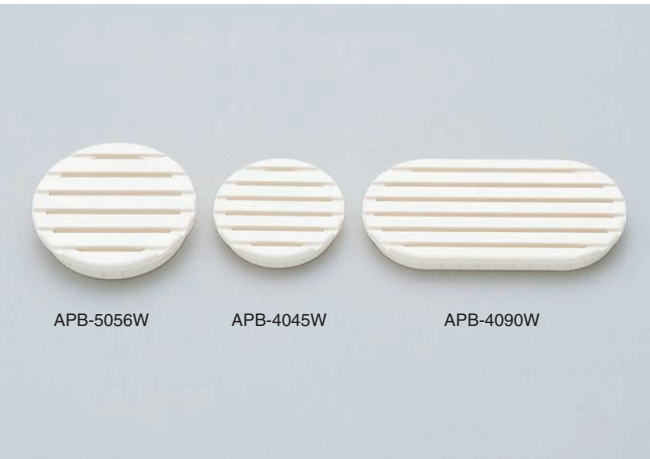






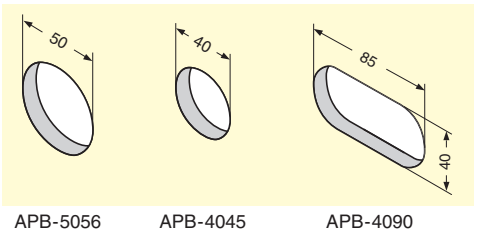
Item Code	Item Name	Colour	Material	D	D_1	D_2	D_3	D_4	H	H_1	H_2	h	Cut Out Dimensions	Max. Exhaust Area	Weight	Box	Carton
210-030-022	APM-4045BR	Brown	ABS	45	39.8	24.6	36.2	28.2	10.3	3.3	7	1.6	ϕ40	≈ 115 mm²	5 g	150 pcs	900 pcs
210-030-021	APM-4045W	White	ABS	45	39.8	24.6	36.2	28.2	10.3	3.3	7	1.6	ϕ40	≈ 115 mm²	5 g	150 pcs	900 pcs
210-030-024	APM-5056BR	Brown	ABS	56	49.8	32	46	36	12.8	3.8	9	1.8	ϕ50	≈ 192 mm²	9 g	100 pcs	600 pcs
210-030-023	APM-5056W	White	ABS	56	49.8	32	46	36	12.8	3.8	9	1.8	ϕ50	≈ 192 mm²	9 g	100 pcs	600 pcs

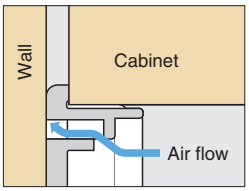
VENTILATOR APB



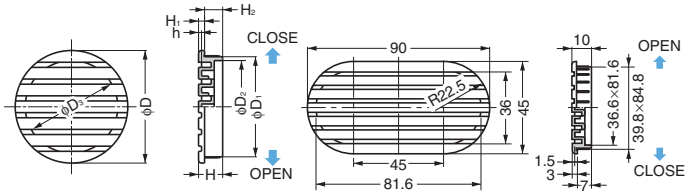
■Features
- Insect-proof.
- Slits placed in uneven levels hide the air hole and prevents from seeing beyond.

■Cut Out Dimensions





Allows air flow even if the surface of the ventilator is directly on the wall.



APB-5056, APB-4045 APB-4090

Item Code	Item Name	Colour	Material	D	D_1	D_2	D_3	H	H_1	H_2	h	Cut Out Dimensions	Max. Exhaust Area	Weight	Box	Carton
210-030-038	APB-4045W	White	ABS	45	39.8	36.6	36.6	10	3	7	1.5	ϕ40	≈ 152 mm²	7 g	150 pcs	900 pcs
210-030-040	APB-5056W	White	ABS	56	49.8	46	46	12	3	9	1.5	ϕ50	≈ 211 mm²	11 g	100 pcs	600 pcs
210-030-042	APB-4090W	White	ABS	–	–	–	–	–	–	–	–	40×85 (Hole)	≈ 332 mm²	16 g	80 pcs	480 pcs

VENTILATOR

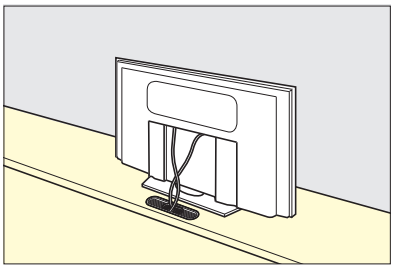
APD-KH



■Features

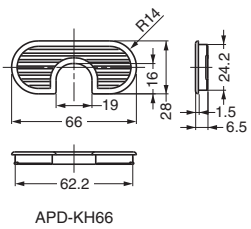
Ventilator and cable grommet in one unit.

■Application Example

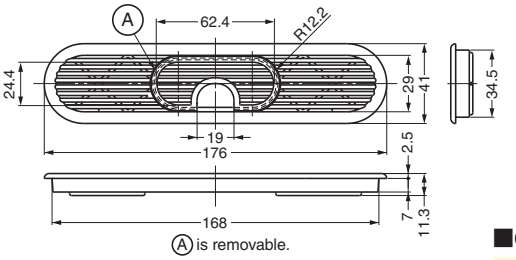


■Colour Variation



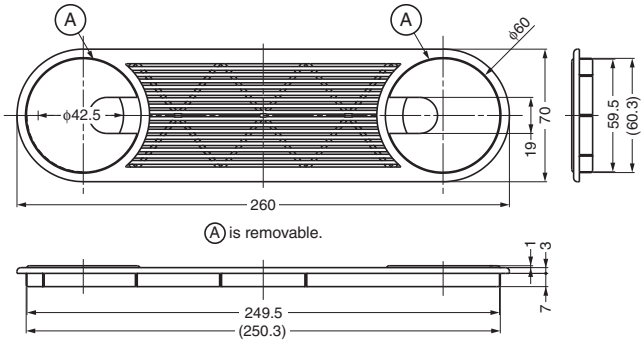


APD-KH66



Ⓐ is removable.

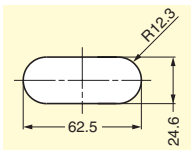
APD-KH170



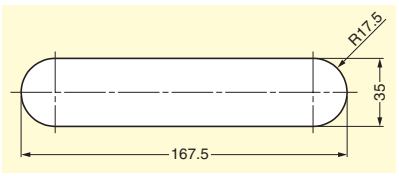
Ⓐ is removable.

APD-KH260

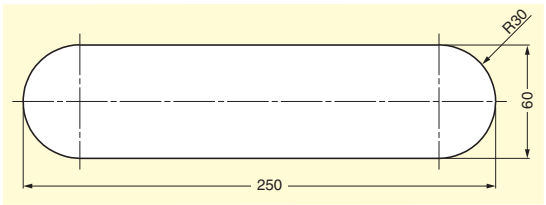
■Cut Out Dimensions



APD-KH66



APD-KH170



APD-KH260

Item Code	Item Name	Material	Finish/Colour	Max. Exhaust Area	Weight	Box	Carton
210-020-910	APD-KH66-CR	ABS	Chrome	≈ 610 mm²	3.7 g	100 pcs	500 pcs
210-020-912	APD-KH66-IV		Ivory		3 g		
210-020-914	APD-KH66-BL		Black				
210-020-911	APD-KH66-BR		Brown				
210-020-913	APD-KH66-WT		White				
210-020-564	APD-KH170-CR		Chrome	≈ 1690 mm²	24 g	40 pcs	320 pcs
210-020-566	APD-KH170-IV		Ivory		20 g		
210-020-568	APD-KH170-BL		Black				
210-020-565	APD-KH170-BR		Brown				
210-020-567	APD-KH170-WT		White				
210-020-570	APD-KH260-IV		Ivory	≈ 3150 mm²	55 g	10 pcs	80 pcs
210-020-571	APD-KH260-BL		Black				
210-020-569	APD-KH260-BR		Brown				

VENTILATOR (W/CABLE GROMMET) APK-KH



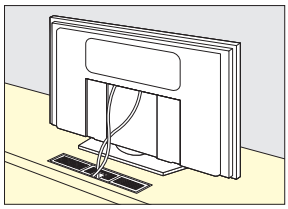
■Features

- Combination of ventilator and cable grommet can be customized.
- Small holes (ϕ 1.5 mm) prevents insects from entering.
- Removable ventilator and cable grommet allows easy cleaning.
- Sold in a set or separately (Frame, ventilator and cable grommet).

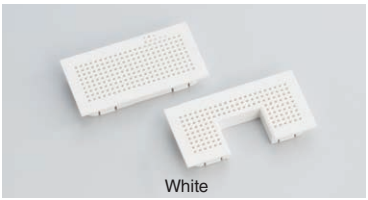
■Remarks

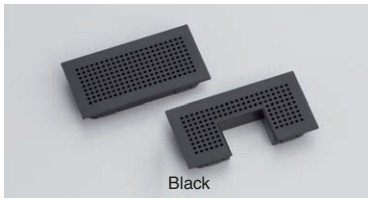
Please use glue for installation.

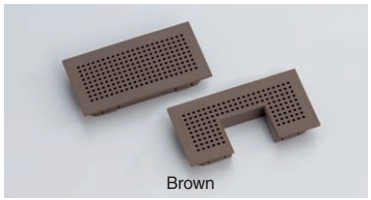
■Application Example



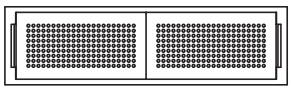
■Colour Variation

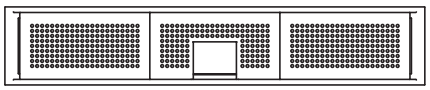


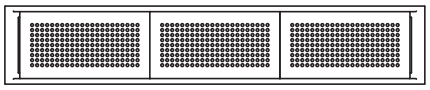




■Set Overview

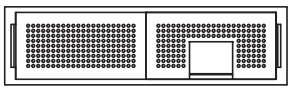

APK-KHA152P

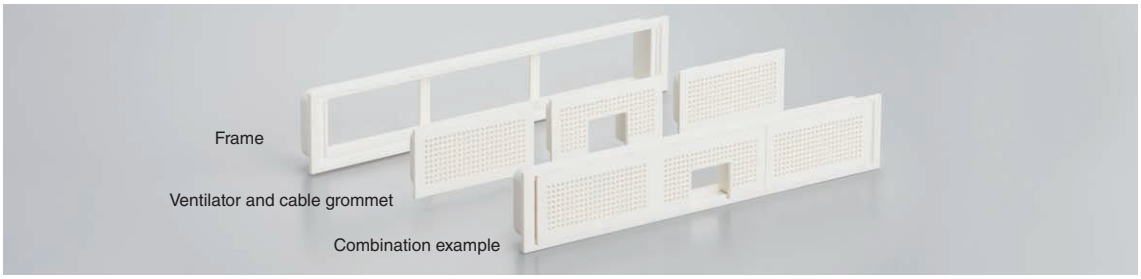

APK-KHW226P


APK-KHA226P

■Combination Example (by Ordering Individual Parts on next page)


Frame, APK-KF226P: 1 pc
Ventilator, APK-K70P: 2 pcs


Frame, APK-KF152P: 1 pc
Ventilator, APK-K70P: 1 pc & Cable grommet, APK-KH70P: 1 pc

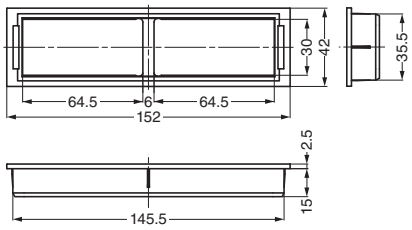


■Frame＋Ventilator/Cable Grommet Set

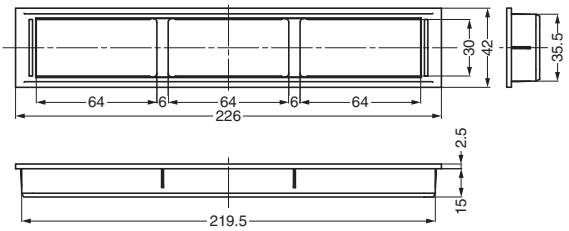
Item Code	Item Name	Colour	Material	Width	Combination	Exhaust Area	Weight
210-033-477	APK-KHA152P-WT	White	ABS	152 mm	Frame × 1 pc, Cable Grommet × 2 pcs	≈ 700 mm^2	39 g
210-033-478	APK-KHA152P-BL	Black					
210-033-479	APK-KHA152P-BR	Brown					
210-032-578	APK-KHW226P-WT	White		226 mm	Frame × 1 pc, Cable Grommet × 1 pc, Ventilator × 2 pcs	≈ 1343 mm^2	46 g
210-032-579	APK-KHW226P-BL	Black					
210-032-580	APK-KHW226P-BR	Brown					
210-032-575	APK-KHA226P-WT	White			Frame × 1 pc, Ventilator × 3 pcs	≈ 1050 mm^2	
210-032-576	APK-KHA226P-BL	Black					
210-032-577	APK-KHA226P-BR	Brown					

■Individual Parts (Frame / Ventilator / Cable Grommet)

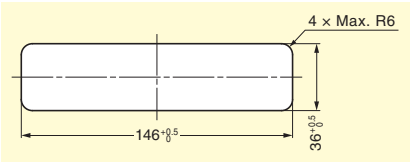
●Frame



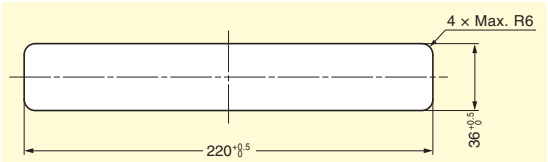
APK-KF152P



APK-KF226P



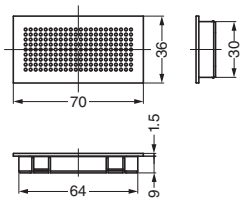
APK-KF152P



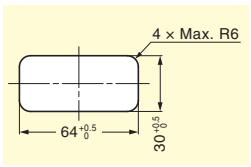
APK-KF226P

Item Code	Item Name	Colour	Material	Weight
210-032-807	APK-KF152P-WT	White	ABS	18 g
210-032-808	APK-KF152P-BL	Black		
210-032-809	APK-KF152P-BR	Brown		
210-032-548	APK-KF226P-WT	White		25 g
210-032-549	APK-KF226P-BL	Black		
210-032-550	APK-KF226P-BR	Brown		

●Ventilator



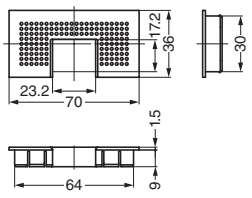
APK-K70P



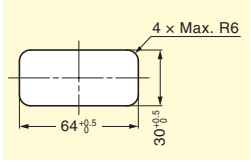
APK-K70P

Item Code	Item Name	Colour	Material	Exhaust Area	Weight
210-032-538	APK-K70P-WT	White	ABS	≈ 350 mm^2	7 g
210-032-539	APK-K70P-BL	Black			
210-032-540	APK-K70P-BR	Brown			

●Cable Grommet



APK-KH70P

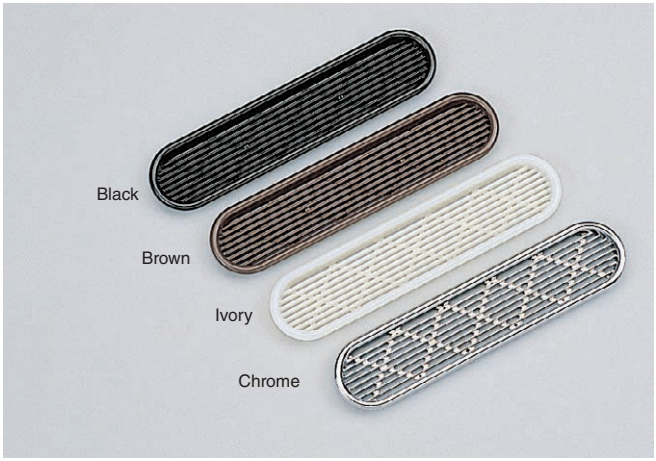


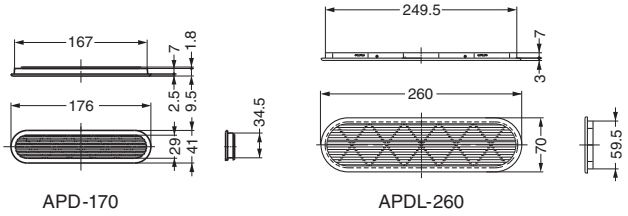
APK-KH70P

Item Code	Item Name	Colour	Material	Exhaust Area	Weight
210-032-541	APK-KH70P-WT	White	ABS	≈ 643 mm^2	7 g
210-032-542	APK-KH70P-BL	Black			
210-032-543	APK-KH70P-BR	Brown			

VENTILATOR

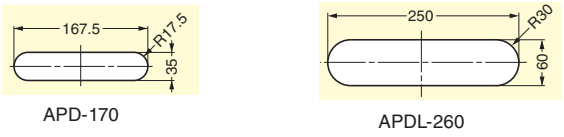
APD-170, APDL-260



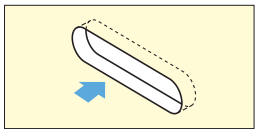


APD-170 APDL-260

■Cut Out Dimensions



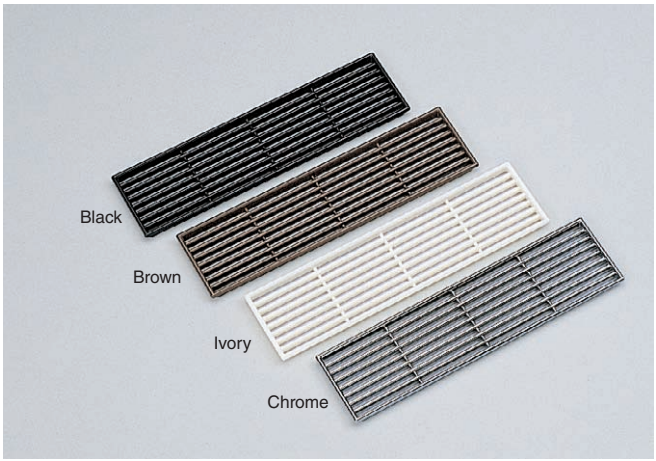
APD-170 APDL-260

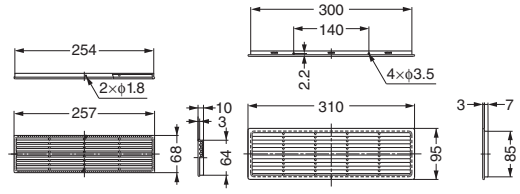


Item Code	Item Name	Material	Finish/Colour	Max. Exhaust Area	Weight	Box	Carton
210-030-034	APD-170CR	ABS	Chrome	≈ 1700 mm²	22 g	40 pcs	320 pcs
210-030-035	APD-170I	ABS	Ivory	≈ 1700 mm²	22 g	40 pcs	320 pcs
210-030-036	APD-170B	ABS	Black	≈ 1700 mm²	22 g	40 pcs	320 pcs
210-030-037	APD-170BR	ABS	Brown	≈ 1700 mm²	22 g	40 pcs	320 pcs
210-030-004	APDL-260I	ABS	Ivory	≈ 4650 mm²	60 g	10 pcs	80 pcs
210-030-005	APDL-260B	ABS	Black	≈ 4650 mm²	60 g	10 pcs	80 pcs
210-030-006	APDL-260BR	ABS	Brown	≈ 4650 mm²	60 g	10 pcs	80 pcs

VENTILATOR

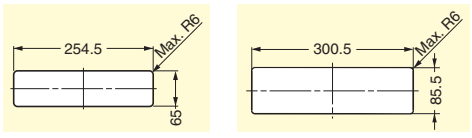
APK-250, APKL-310



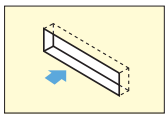


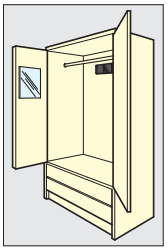
APK-250 APKL-310

■Cut Out Dimensions



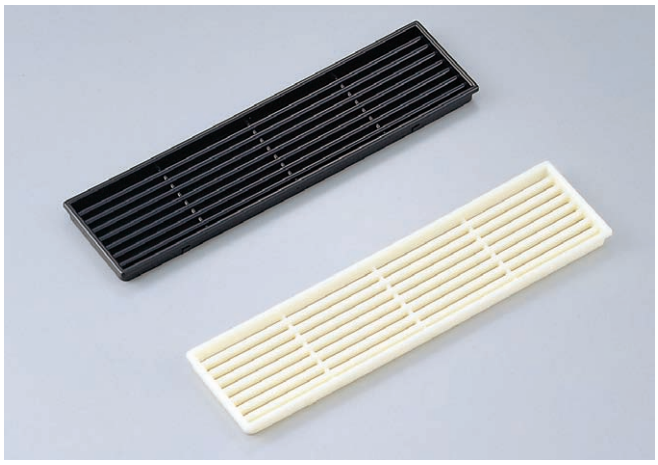
APK-250 APKL-310





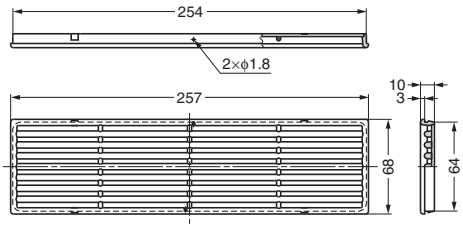
Item Code	Item Name	Material	Finish/Colour	Max. Exhaust Area	Weight	Box	Carton
210-030-026	APK-250CR	ABS	Chrome	≈ 6580 mm²	57 g	20 pcs	160 pcs
210-030-027	APK-250I	ABS	Ivory	≈ 6580 mm²	57 g	20 pcs	160 pcs
210-030-028	APK-250B	ABS	Black	≈ 6580 mm²	57 g	20 pcs	160 pcs
210-030-029	APK-250BR	ABS	Brown	≈ 6580 mm²	57 g	20 pcs	160 pcs
210-030-007	APKL-310I	ABS	Ivory	≈ 9800 mm²	100 g	10 pcs	80 pcs
210-030-008	APKL-310B	ABS	Black	≈ 9800 mm²	100 g	10 pcs	80 pcs
210-030-009	APKL-310BR	ABS	Brown	≈ 9800 mm²	100 g	10 pcs	80 pcs

VENTILATOR APK-T250

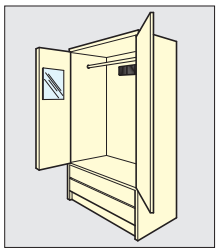


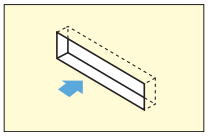
■Features
Click-on installation.

■Remarks
Board thickness : Max 2.5 mm

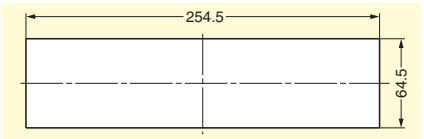


■Application Example



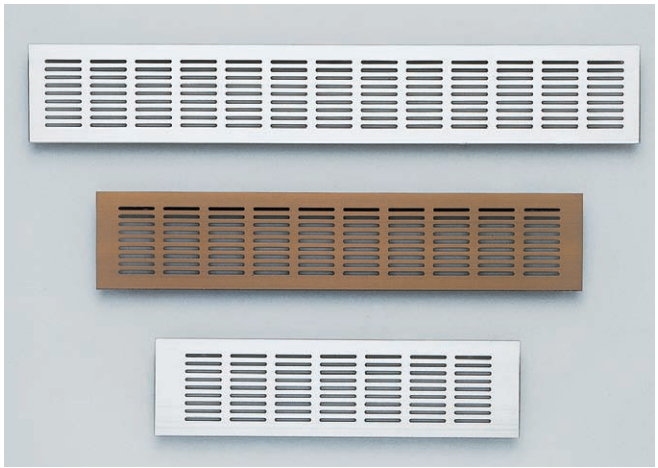


■Cut Out Dimensions

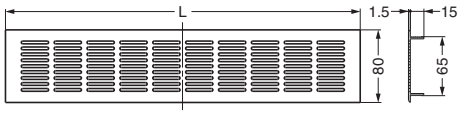


Item Code	Item Name	Material	Colour	Max. Exhaust Area	Weight	Box	Carton
210-039-435	APK-T250I	ABS	Ivory	≈ 5600 mm²	57 g	20 pcs	160 pcs
210-039-434	APK-T250B	ABS	Black	≈ 5600 mm²	57 g	20 pcs	160 pcs

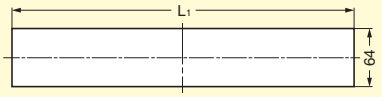
VENTILATOR G61



■Features
Click-on installation.

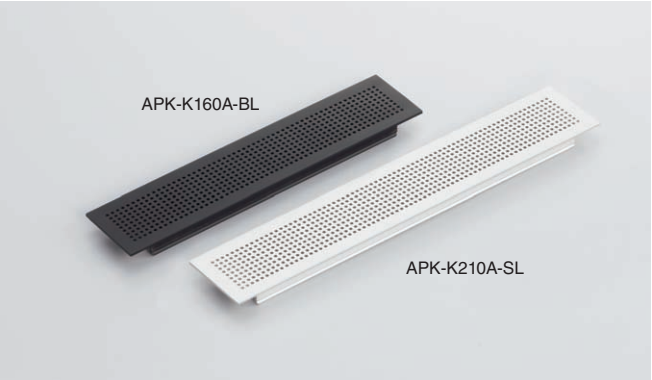


■Cut Out Dimensions



Item Code	Item Name	Finish	L	L_1	Material	Max. Exhaust Area	Weight	Box
210-031-710	G61-3008AS	Silver	300	262	Aluminium Alloy	≈ 6700 mm²	98 g	10 pcs
210-031-711	G61-3008AU	Bronze	300	262	Aluminium Alloy	≈ 6700 mm²	98 g	10 pcs
210-031-712	G61-4008AS	Silver	400	362	Aluminium Alloy	≈ 9500 mm²	130 g	10 pcs
210-031-713	G61-4008AU	Bronze	400	362	Aluminium Alloy	≈ 9500 mm²	130 g	10 pcs
210-031-714	G61-5008AS	Silver	500	462	Aluminium Alloy	≈ 12400 mm²	161 g	10 pcs
210-030-700	G61-5008AU	Bronze	500	462	Aluminium Alloy	≈ 12400 mm²	161 g	10 pcs

VENTILATOR APK-K



■Features

- Smart and simple design.
- Small holes (ϕ1.5 mm) prevents insects from entering.
- Removable ventilator and cable grommet allows easy cleaning.

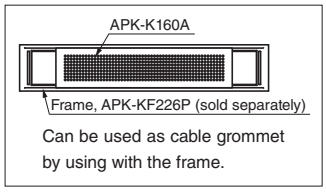
■Remarks

Please use glue for installation.

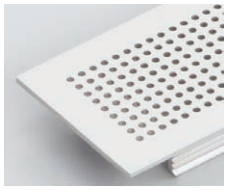
■Sold Separately

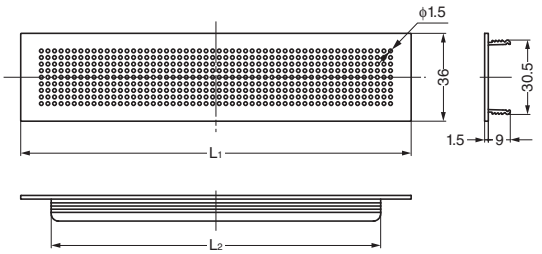
Frame APK-KF226P (P.804)

■Application Example

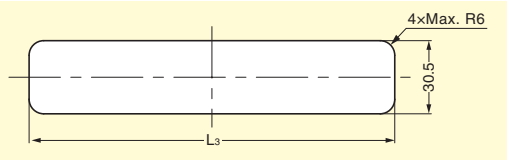


Can be used as cable grommet by using with the frame.





■Cut Out Dimensions



Item Code	Item Name	Colour	Material	Exhaust Area	L_1	L_2	L_3	Weight
210-032-544	APK-K160A-BL	Black	Aluminium Alloy	≈ 859 mm²	160	135	150	27 g
210-032-545	APK-K160A-SL	Silver						
210-032-546	APK-K210A-BL	Black		≈ 1145 mm²	210	185	200	37 g
210-032-547	APK-K210A-SL	Silver						

INTRODUCTION OF RECESSED PULL WITH VENTILATOR UTA-105





■Features

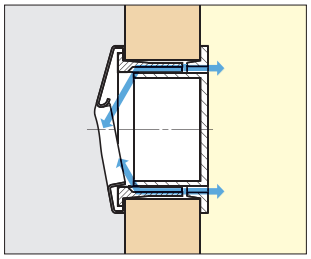
- With ventilator function.
- Excellent chemical resistance.

■Parts Included

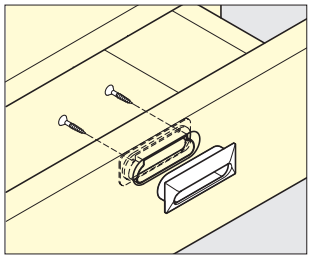
Countersunk head tapping screw 4×20 (SUS)

For more details, please see P.53.

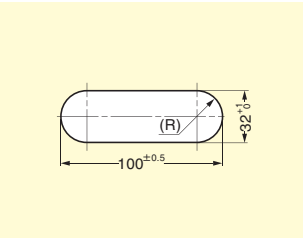
■Air Flow



■Installation



■Cut Out Dimensions



STAINLESS STEEL ADJUSTABLE VENTILATOR

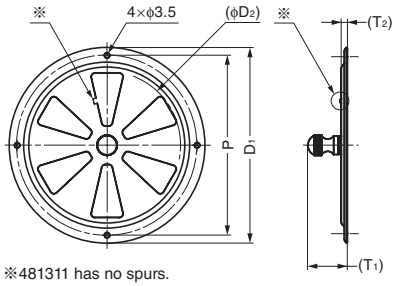
STAINLESS 304 STEEL

4813



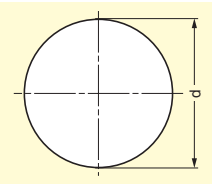
■Features

- Air flow is adjustable by turning the knob.
- The knob is tight for anti-vibration.



※481311 has no spurs.

■Cut Out Dimensions



Item Code	Item Name	Material	Finish	D_1	D_2	P	T_1	T_2	d	Max. Exhaust Area	Weight	Carton
210-028-882	481311	Stainless Steel (SUS304)	Satin	102	77	92	24.4	2.7	77～ 80	≈ 1835 mm²	61 g	300 pcs
210-028-881	481312	Stainless Steel (SUS304)	Satin	127	95	117	25.6	3.9	95～100	≈ 2860 mm²	86 g	200 pcs

STAINLESS STEEL VENTILATOR

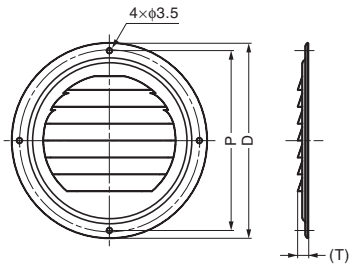
STAINLESS 304 STEEL

4814

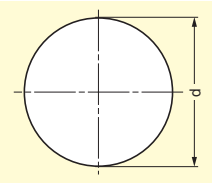


■Optional Parts

Stainless steel ventilator cover 4818 (below).



■Cut Out Dimensions



Item Code	Item Name	Material	Finish	D	P	T	d	Max. Exhaust Area	Weight	Carton
210-028-880	481440	Stainless Steel (SUS304)	Satin	102	92	5	77～ 80	≈ 750 mm²	38 g	500 pcs
210-028-879	481430	Stainless Steel (SUS304)	Satin	127	117	7	95～100	≈ 1250 mm²	59 g	300 pcs

STAINLESS STEEL VENTILATOR COVER

STAINLESS 304 STEEL

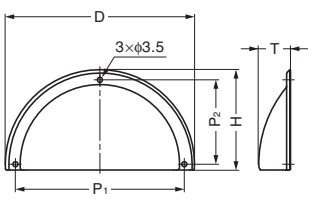
4818



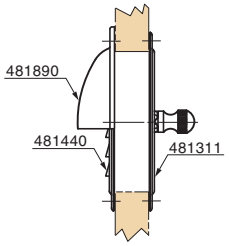


■Features

For 4814 ventilator (above), prevents influx of rainwater.



■Application Example

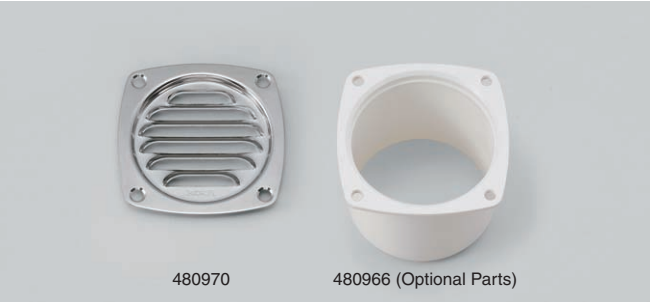


Item Code	Item Name	Use With	Material	Finish	D	H	P_1	P_2	T	Weight	Carton
210-028-884	481890	481440 (Above)	Stainless Steel (SUS304)	Satin	107	57	92	46	20	40 g	300 pcs
210-028-883	481850	481430 (Above)	Stainless Steel (SUS304)	Satin	131	69	117	58.5	22	60 g	300 pcs

STAINLESS STEEL VENTILATOR

STAINLESS 316 STEEL

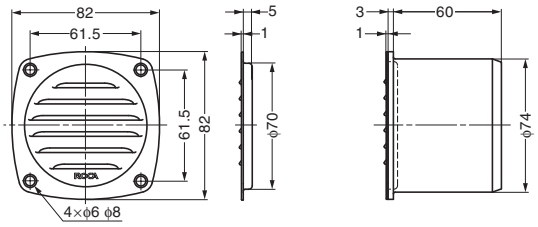
480970

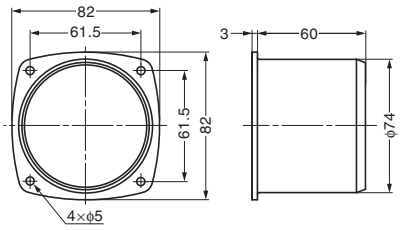




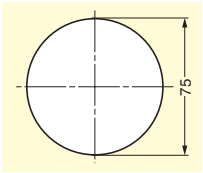
■Features

- Made of SUS316 for excellent corrosion resistance.
- Can be used with adaptor (optional parts).





■Cut Out Dimensions



■Ventilator Body

Item Code	Item Name	Material	Finish	Max. Exhaust Area	Weight	Carton
210-028-877	480970	Stainless Steel (SUS316)	Satin	≈ 1600 mm²	51 g	300 pcs

■Adaptor (Optional Parts)

Item Code	Item Name	Material	Colour	Weight	Carton
210-028-878	480966	Polyamide (PA)	White	51 g	100 pcs

VENTILATOR

STEEL

4872





Push the knob.



Pull the knob.

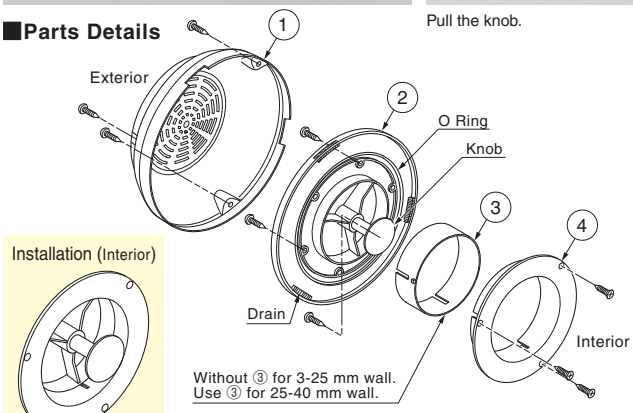
■Features

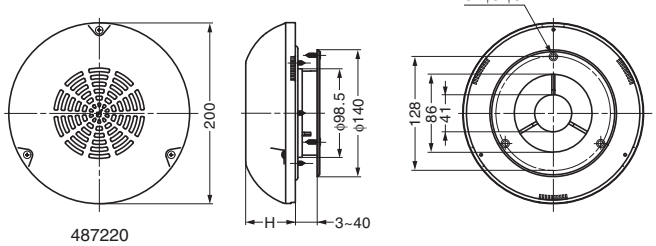
- Can be used for the exterior due to the water protector.
- Can be used both for wooden wall and sheet metal wall. Please arrange the bolts and nuts when using with sheet metal.

■Parts Included

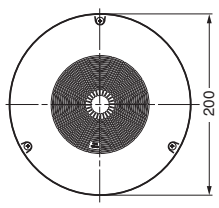
- Pan head tapping screw 4×12 (3 pcs) / for Cover ① on Base ②
- Pan head tapping screw 4×18 (3 pcs) / for Cover ② on the wall
- Raised countersunk head tapping screw 4×16 (3 pcs) / for Fringe ④ on the wall

■Parts Details



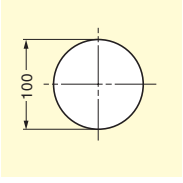


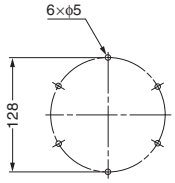
487220



487200

■Cut Out Dimensions





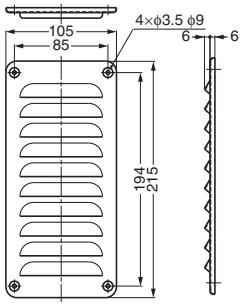
Installation position of Base ②

Item Code	Item Name	Material	Colour	H	Wall Thickness	Max. Exhaust Area	Weight	Box	Carton
210-028-886	487220	Stainless Steel (SUS304)	Satin	55	3~40	≈ 3055 mm²	490 g	1 pc	40 pcs
210-028-885	487200	Polypropylene (PP)	Off-white	62	3~40	≈ 5032 mm²	420 g	1 pc	40 pcs

No.	Part Name	Material	Colour
①	Cover	See the left table	See the left table
②	Base	Polypropylene (PP)	Off-white
③	Adaptor	Polypropylene (PP)	Off-white
④	Flange	Polypropylene (PP)	Off-white

STAINLESS STEEL VENTILATOR 1-1122



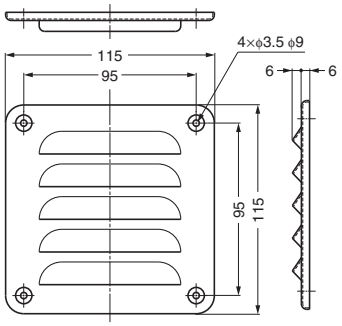


■Features
Ideal for marine application.

Item Code	Item Name	Material	Finish	Max. Exhaust Area	Weight	Box
210-172-011	1-1122	Stainless Steel (SUS316)	Satin	≈ 3700 mm²	152 g	20 pcs

STAINLESS STEEL VENTILATOR 1-1212



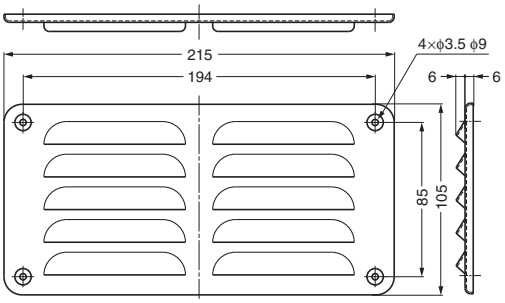


■Features
Ideal for marine application.

Item Code	Item Name	Material	Finish	Max. Exhaust Area	Weight	Box
210-172-012	1-1212	Stainless Steel (SUS316)	Satin	≈ 1900 mm²	90 g	20 pcs

STAINLESS STEEL VENTILATOR 1-2211



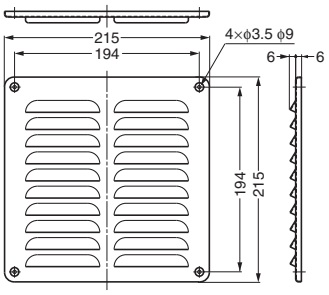


■Features
Ideal for marine application.

Item Code	Item Name	Material	Finish	Max. Exhaust Area	Weight	Box
210-172-013	1-2211	Stainless Steel (SUS316)	Satin	≈ 3700 mm²	157 g	10 pcs

STAINLESS STEEL VENTILATOR 1-2222





■Features
Ideal for marine application.

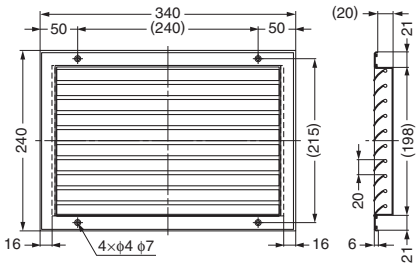
Item Code	Item Name	Material	Finish	Max. Exhaust Area	Weight	Box
210-172-014	1-2222	Stainless Steel (SUS316)	Satin	≈ 7500 mm²	315 g	10 pcs

VENTILATOR

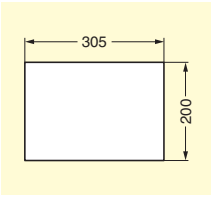
STEEL **G58-3020**



■Parts Included
- Countersunk head tapping screw 3.5×32
- Plug



■Cut Out Dimensions



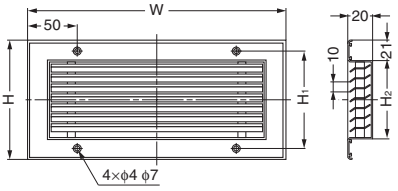
Item Code	Item Name	Material	Finish	Max. Exhaust Area	Weight	Box
210-031-730	G58-3020	Aluminium Alloy	Silver	≈ 550 cm²	674 g	7 pcs

VENTILATOR

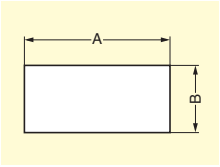
STEEL **G57-AA**



■Parts Included
- Countersunk head tapping screw 3.5×32
- Plug



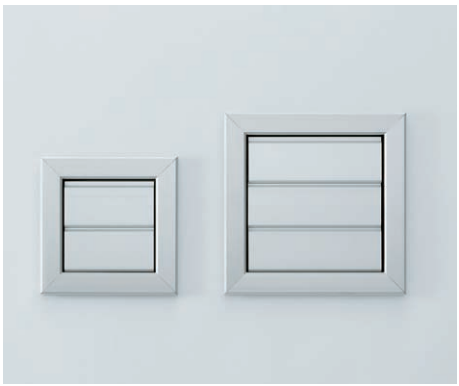
■Cut Out Dimensions



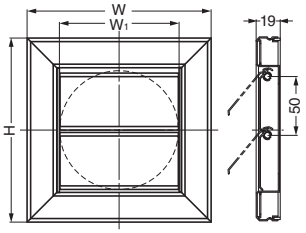
Item Code	Item Name	Material	Finish	W	H	H_1	H_2	A	B	Max. Exhaust Area	Weight	Box
210-031-731	G57-1707AA	Aluminium Alloy	Silver	210	106	85	68	173	73	≈ 83 cm²	208 g	6 pcs
210-031-732	G57-2208AA	Aluminium Alloy	Silver	260	116	95	78	223	83	≈ 120 cm²	306 g	4 pcs

VENTILATOR

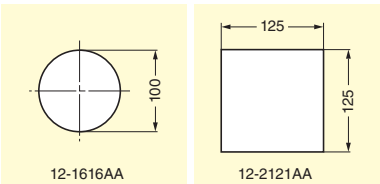
STEEL **12-AA**



■Parts Included
- Countersunk head tapping screw 3.5×32
- Plug



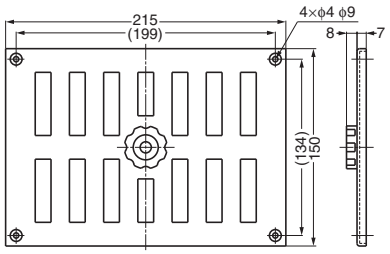
■Cut Out Dimensions



Item Code	Item Name	Material	Finish	W	W_1	H	Max. Exhaust Area	Weight	Box
210-031-733	12-1616AA	Aluminium Alloy	Silver	155	100	155	≈ 80 cm²	298 g	6 pcs
210-031-734	12-2121AA	Aluminium Alloy	Silver	205	125	205	≈ 156 cm²	433 g	6 pcs

ADJUSTABLE VENTILATOR 3-2115

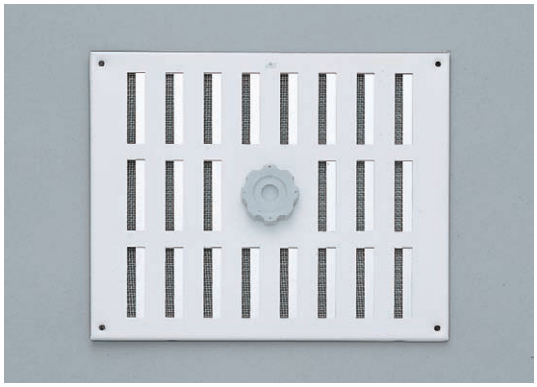


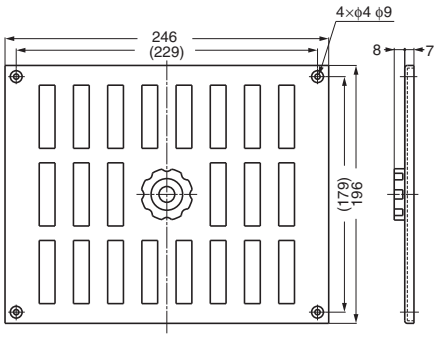


■Features
- Air flow is adjustable with the dial.
- Insect-proof.

Item Code	Item Name	Material	Finish	Max. Exhaust Area	Weight	Box
210-172-026	3-2115	Aluminium Alloy	Paint/White	≈ 7300 mm²	160 g	10 pcs

ADJUSTABLE VENTILATOR 3-2520



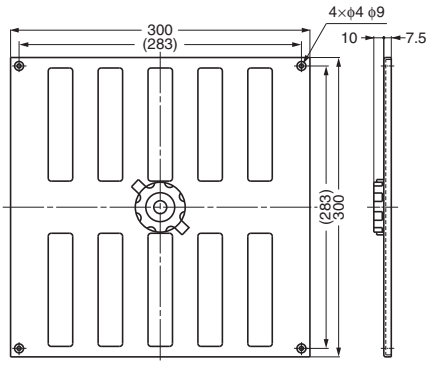


■Features
- Air flow is adjustable with the dial.
- Insect-proof.

Item Code	Item Name	Material	Finish	Max. Exhaust Area	Weight	Box
210-172-027	3-2520	Aluminium Alloy	Paint/White	≈ 12000 mm²	235 g	10 pcs

ADJUSTABLE VENTILATOR 3-3030





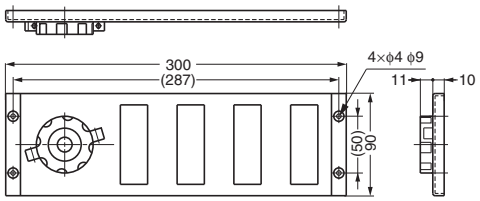
■Features
- Air flow is adjustable with the dial.
- Insect-proof.

Item Code	Item Name	Material	Finish	Max. Exhaust Area	Weight	Box
210-172-018	3-3030	Aluminium Alloy	Paint/White	≈ 25200 mm²	400 g	5 pcs

ADJUSTABLE VENTILATOR 3-3009

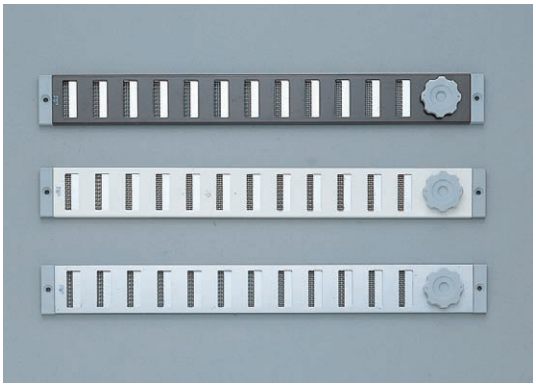


■Features
- Air flow is adjustable with the dial.
- Insect-proof.

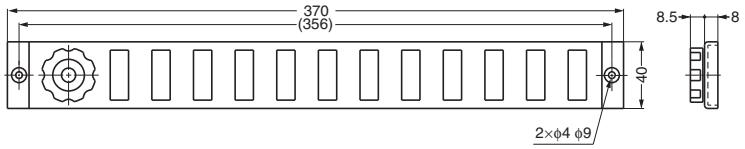


Item Code	Item Name	Material	Finish	Max. Exhaust Area	Weight	Box
210-172-015	3-3009WT	Aluminium Alloy	Paint/White	≈ 6400 mm²	180 g	10 pcs
210-172-016	3-3009BR	Aluminium Alloy	Paint/Brown	≈ 6400 mm²	180 g	10 pcs
210-172-017	3-3009AS	Aluminium Alloy	Silver	≈ 6400 mm²	180 g	10 pcs

ADJUSTABLE VENTILATOR 3-3704



■Features
- Air flow is adjustable with the dial.
- Insect-proof.

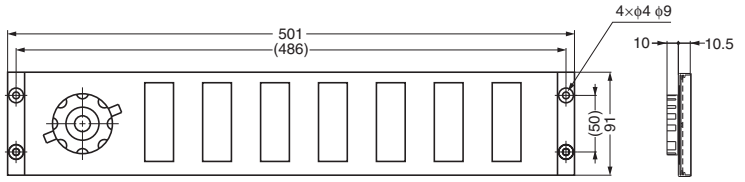


Item Code	Item Name	Material	Finish	Max. Exhaust Area	Weight	Box
210-172-019	3-3704WT	Aluminium Alloy	Paint/White	≈ 3900 mm²	100 g	20 pcs
210-172-020	3-3704BR	Aluminium Alloy	Paint/Brown	≈ 3900 mm²	100 g	20 pcs
210-172-021	3-3704AS	Aluminium Alloy	Silver	≈ 3900 mm²	100 g	20 pcs

ADJUSTABLE VENTILATOR 3-5009



■Features
- Air flow is adjustable with the dial.
- Insect-proof.

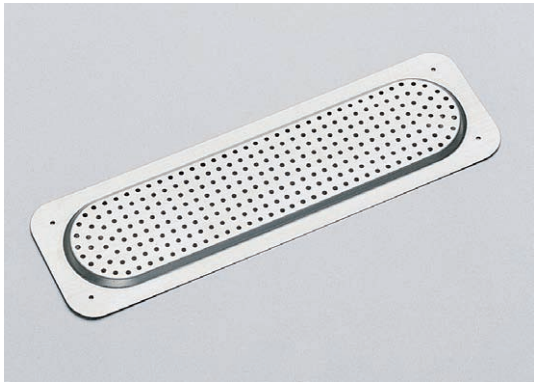


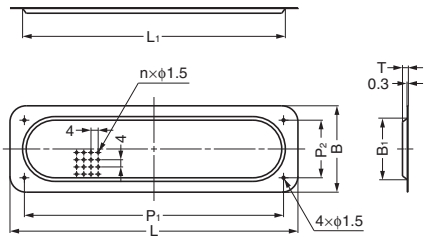
Item Code	Item Name	Material	Finish	Max. Exhaust Area	Weight	Box
210-172-022	3-5009WT	Aluminium Alloy	Paint/White	≈ 11200 mm²	280 g	10 pcs
210-172-023	3-5009BR	Aluminium Alloy	Paint/Brown	≈ 11200 mm²	280 g	10 pcs
210-172-024	3-5009AS	Aluminium Alloy	Silver	≈ 11200 mm²	280 g	10 pcs

VENTILATOR

STAINLESS 304 STEEL

AST

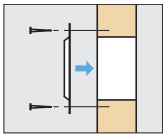




■Features
Insect-proof.

■Parts Included
Round head nail 1.2×10 (SUS)

■Installation

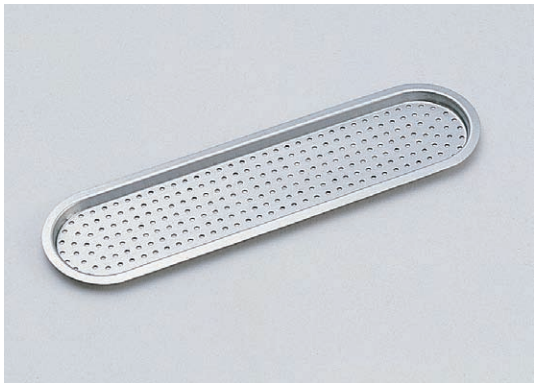


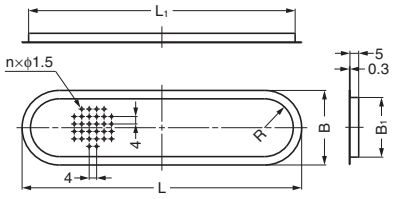
Item Code	Item Name	Material	Finish	L	L1	B	B1	P1	P2	T	n	Max. Exhaust Area	Weight	Box	Carton
210-030-052	AST-160	Stainless Steel (SUS304)	Satin	160	146	48	36	144	32	3	268	≈ 470 mm²	18 g	50 pcs	1000 pcs
210-030-053	AST-210	Stainless Steel (SUS304)	Satin	210	196	58	46	194	42	4	450	≈ 790 mm²	28 g	50 pcs	1200 pcs

VENTILATOR

STAINLESS 304 STEEL

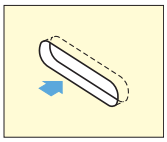
ASD





■Features
Insect-proof.

■Installation

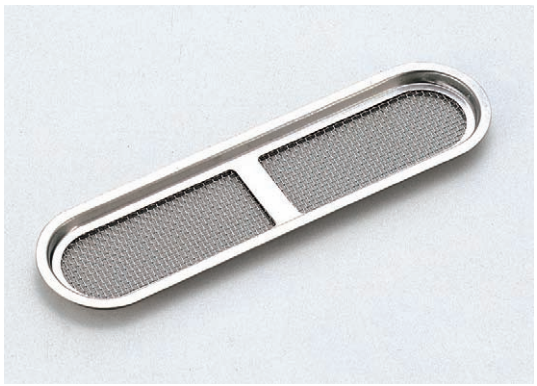


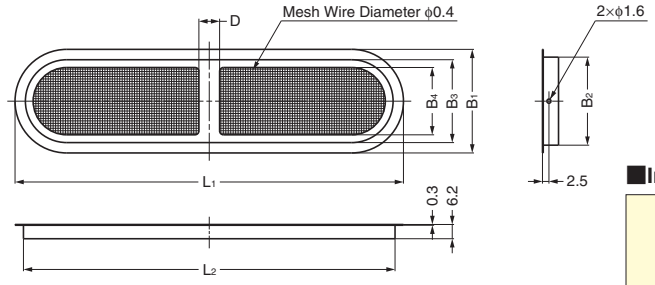
Item Code	Item Name	Material	Finish	L	L1	B	B1	R	n	Max. Exhaust Area	Weight	Box	Carton
210-030-018	ASD-150	Stainless Steel (SUS304)	Satin	150	143	40	33	16	268	≈ 470 mm²	16 g	80 pcs	1920 pcs
210-030-019	ASD-200	Stainless Steel (SUS304)	Satin	200	193	50	42.8	21	450	≈ 790 mm²	25 g	40 pcs	960 pcs

VENTILATOR

STAINLESS 304 STEEL

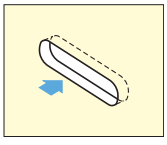
SAD





■Parts Included
Round head nail 1.2×10 (SUS)

■Installation



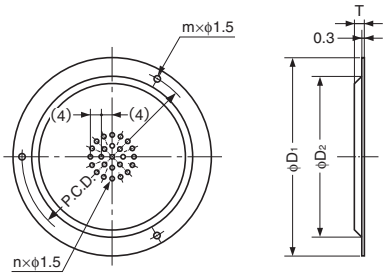
Item Code	Item Name	Material	Finish	L1	L2	B1	B2	B3	B4	D	Max. Exhaust Area	Weight	Box	Carton
210-030-169	SA-D150	Stainless Steel (SUS304)	Satin	150	143.5	40	34	32	26	8	≈ 1880 mm²	21 g	30 pcs	600 pcs
210-030-170	SA-D200	Stainless Steel (SUS304)	Satin	200.5	194	50	44	42	35	10	≈ 3800 mm²	33 g	30 pcs	300 pcs

VENTILATOR

STAINLESS 304 STEEL

AST

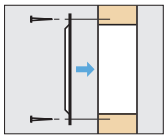




■Features
Insect-proof.

■Parts Included
Round head nail 1.2×10 (SUS)

■Installation



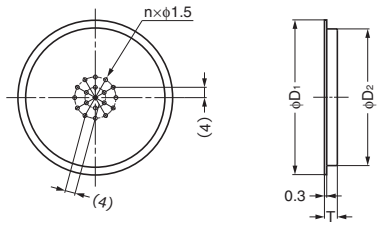
Item Code	Item Name	Material	Finish	D1	D2	T	P.C.D.	m	n	Max. Exhaust Area	Weight	Box	Carton
210-030-044	AST- 45	Stainless Steel (SUS304)	Satin	45	34	3	ϕ40	3	37	≈ 65 mm²	5 g	100 pcs	3600 pcs
210-030-045	AST- 55	Stainless Steel (SUS304)	Satin	55	44	3	ϕ50	3	59	≈ 104 mm²	6.3 g	100 pcs	3600 pcs
210-030-046	AST- 70	Stainless Steel (SUS304)	Satin	70	55	3	ϕ64	3	127	≈ 224 mm²	10 g	100 pcs	2400 pcs
210-030-047	AST-100	Stainless Steel (SUS304)	Satin	100	81	4	ϕ91	4	271	≈ 478 mm²	20 g	50 pcs	500 pcs

VENTILATOR

STAINLESS 304 STEEL

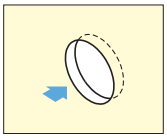
ASM





■Features
Insect-proof.

■Installation



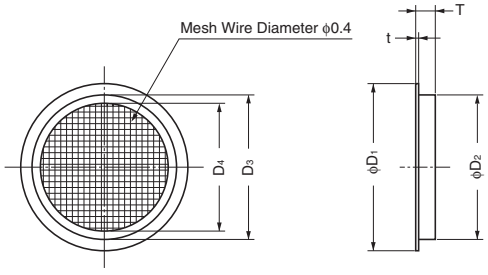
Item Code	Item Name	Material	Finish	D1	D2	T	n	Max. Exhaust Area	Weight	Box	Carton
210-030-010	ASM-37	Stainless Steel (SUS304)	Satin	36	31	4.5	37	≈ 65 mm²	3 g	100 pcs	3600 pcs
210-030-011	ASM-45	Stainless Steel (SUS304)	Satin	46	41	4.5	59	≈ 104 mm²	5 g	100 pcs	3600 pcs
210-030-012	ASM-60	Stainless Steel (SUS304)	Satin	60	53	5	127	≈ 224 mm²	8 g	100 pcs	2400 pcs
210-030-013	ASM-85	Stainless Steel (SUS304)	Satin	85	77	5	271	≈ 478 mm²	15 g	50 pcs	1000 pcs

VENTILATOR

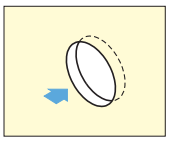
STAINLESS 304 STEEL

SAM





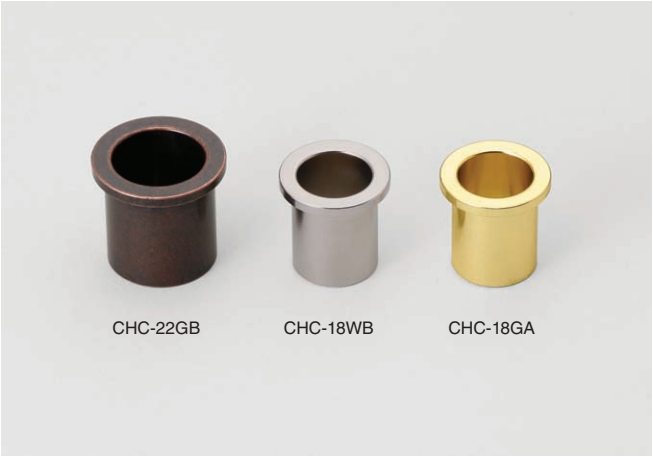
■Installation



Item Code	Item Name	Material	Finish	D1	D2	D3	D4	T	t	Max. Exhaust Area	Weight	Box	Carton
210-030-164	SA-M 37	Stainless Steel (SUS304)	Satin	36	31.5	30	25	5.2	0.3	≈ 290 mm²	5 g	70 pcs	1400 pcs
210-030-165	SA-M 45	Stainless Steel (SUS304)	Satin	46	41.5	40	35	5.2	0.3	≈ 570 mm²	6 g	60 pcs	1200 pcs
210-030-166	SA-M 60	Stainless Steel (SUS304)	Satin	60	53.5	52	46	6.5	0.3	≈ 1000 mm²	10 g	50 pcs	1000 pcs
210-030-167	SA-M 85	Stainless Steel (SUS304)	Satin	85	77.8	76.5	68	7	0.3	≈ 2150 mm²	18 g	30 pcs	600 pcs
210-030-168	SA-M120	Stainless Steel (SUS304)	Satin	120	110.5	108	99	7.2	0.5	≈ 4480 mm²	47 g	20 pcs	200 pcs

CABLE GROMMET

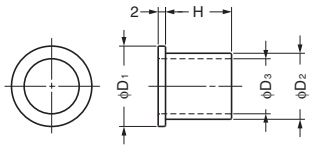
CHC



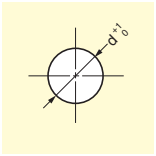
Black colour also available.

■Features

- Two sizes of diameter available.
- Suitable for phone, fax or LAN cable grommet.



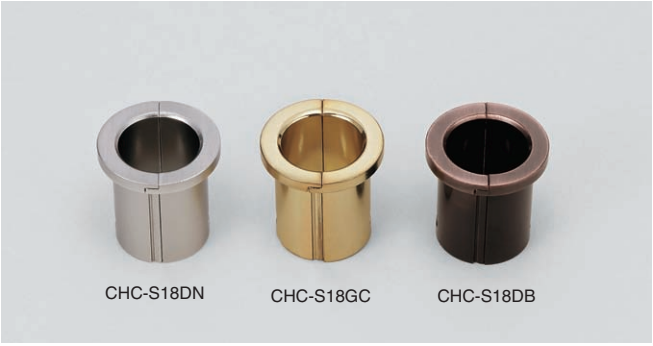
■Cut Out Dimensions



Item Code	Item Name	Material	Finish/Colour	H	D_1	D_2	D_3	d	Weight	Box
210-023-209	CHC-18WB	Brass	Satin Nickel	16	18	14	12	14.5	8 g	120 pcs
210-017-186	CHC-18GA	Brass	Gold	16	18	14	12	14.5	8 g	120 pcs
210-017-187	CHC-18GB	Brass	Antique Brass	16	18	14	12	14.5	8 g	120 pcs
210-029-804	CHC-18BL	Brass	Black	16	18	14	12	14.5	8 g	120 pcs
210-023-210	CHC-22WB	Brass	Satin Nickel	18	22	18	15	18.5	15 g	60 pcs
210-017-189	CHC-22GA	Brass	Gold	18	22	18	15	18.5	15 g	60 pcs
210-017-190	CHC-22GB	Brass	Antique Brass	18	22	18	15	18.5	15 g	60 pcs
210-029-805	CHC-22BL	Brass	Black	18	22	18	15	18.5	15 g	60 pcs

CABLE GROMMET

CHC-S18

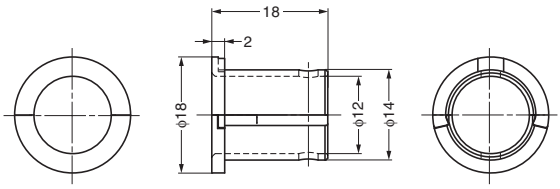


Black colour also available.

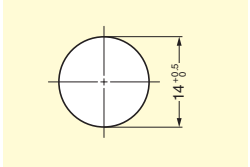


■Features

Can be split into two parts for easy exchange of LAN cables.



■Cut Out Dimensions

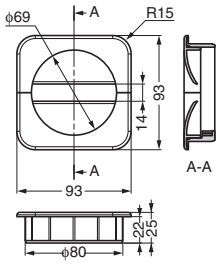


Item Code	Item Name	Material	Finish/Colour	Weight	Box
210-028-378	CHC-S18DN	Zinc Alloy (ZDC)	Nickel	6 g	100 pcs
210-028-379	CHC-S18GC	Zinc Alloy (ZDC)	Gold	6 g	100 pcs
210-028-380	CHC-S18DB	Zinc Alloy (ZDC)	Antique Brass	6 g	100 pcs
210-029-799	CHC-S18BL	Zinc Alloy (ZDC)	Black	6 g	100 pcs

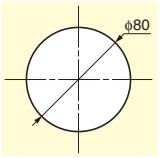
CABLE GROMMET

S93-14SL

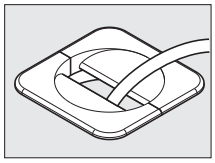




■Cut Out Dimensions



■Application Example

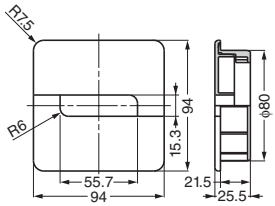


Item Code	Item Name	Material	Colour	Weight	Box
210-030-316	S93-14SL	ABS	Silver	40 g	132 pcs

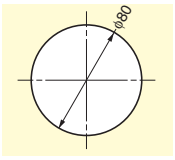
CABLE GROMMET

S80

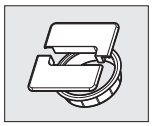




■Cut Out Dimensions



■Application Example

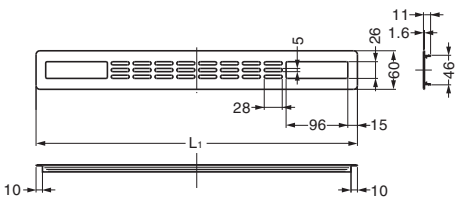


Item Code	Item Name	Finish	Material	Weight	Carton
210-180-925	S80CG	Clear Chrome	ABS	51 g	99 pcs
210-180-926	S80C	Satin Chrome	ABS	51 g	99 pcs

CABLE GROMMET

HTK

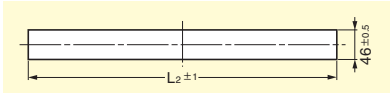




■Features

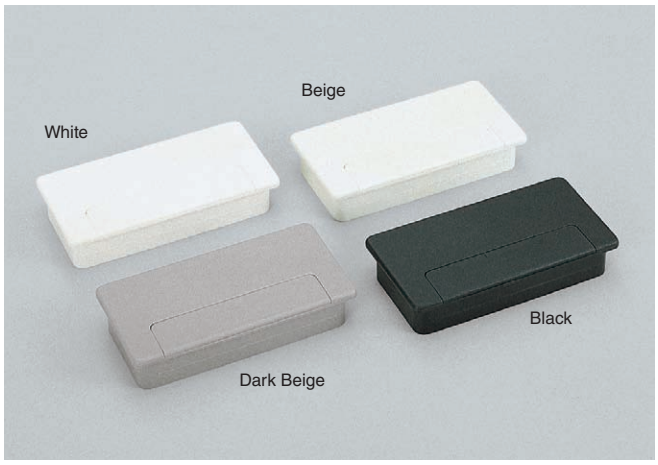
Can be used as ventilator and cable grommet for electronic appliance racks.

■Cut Out Dimensions



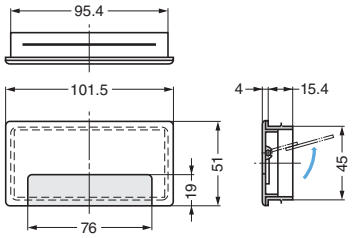
Item Code	Item Name	Material	Finish	L_1	L_2	Weight	Box	Carton
210-017-543	HTK-400	Alloy	Silver	400	380	110 g	10 pcs	100 pcs
210-017-542	HTK-500	Alloy	Silver	500	480	133 g	10 pcs	100 pcs

CABLE GROMMET S100-50

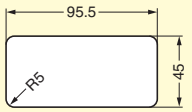


■Features

All the front parts are removable for wide opening.

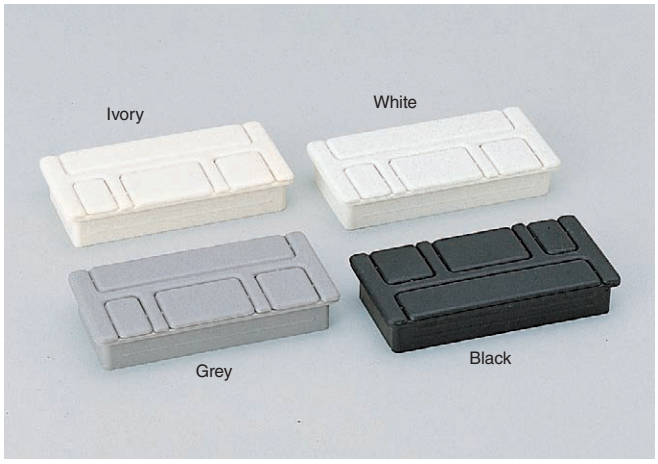


■Cut Out Dimensions



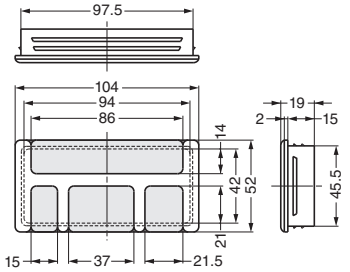
Item Code	Item Name	Colour	Material	Weight	Box	Carton
210-031-800	S100-50W	White	ABS	24 g	15 pcs	150 pcs
210-031-801	S100-50BE	Beige	ABS	24 g	15 pcs	150 pcs
210-031-840	S100-50DBE	Dark Beige	ABS	24 g	15 pcs	150 pcs
210-031-841	S100-50BL	Black	ABS	24 g	15 pcs	150 pcs

CABLE GROMMET S1015-51

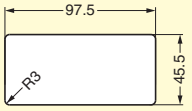


■Features

- Please fold and remove ▭ part according to the size of cables and location.
- All the front parts are removable for wide opening.



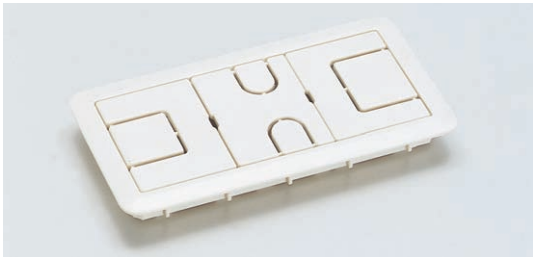
■Cut Out Dimensions

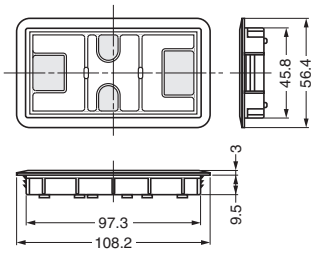


Item Code	Item Name	Colour	Material	Weight	Box	Carton
210-031-822	S1015-51CM	Ivory	ABS	22 g	15 pcs	150 pcs
210-031-823	S1015-51W	White	ABS	22 g	15 pcs	150 pcs
210-031-821	S1015-51G	Grey	ABS	22 g	15 pcs	150 pcs
210-031-820	S1015-51B	Black	ABS	22 g	15 pcs	150 pcs

CABLE GROMMET

ART973





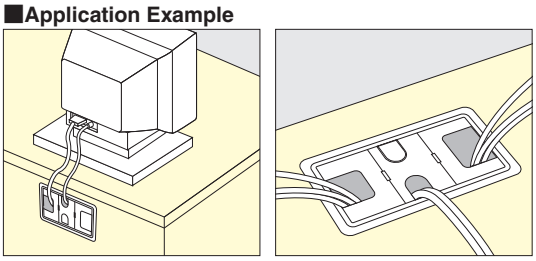
■Features

- Please fold and remove ▭ part according to the size of cables and location.
- All the front parts are removable for wide opening.

■Cut Out Dimensions

- For wood: 97.5 × 45.8 mm
- For metal sheet: 97.8 × 46.5 (Thickness: 0.8 ~ 1.0) mm

■Application Example

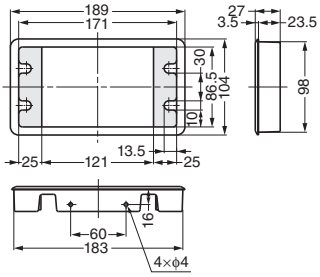


Item Code	Item Name	Material	Colour	Weight	Carton
210-035-132	ART973	ABS	White	17 g	140 pcs

CABLE GROMMET

V2000

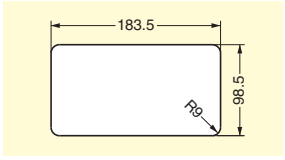




■Features

All the front parts are removable for wide opening.

■Cut Out Dimensions



Item Code	Item Name	Colour	Material	Weight	Carton
210-031-861	V2000W	White	Polystyrene (HIPS)	104 g	33 pcs
210-031-863	V2000BE	Beige	Polystyrene (HIPS)	104 g	33 pcs
210-031-862	V2000DBE	Dark Beige	Polystyrene (HIPS)	104 g	33 pcs
210-031-860	V2000B	Black	Polystyrene (HIPS)	104 g	33 pcs

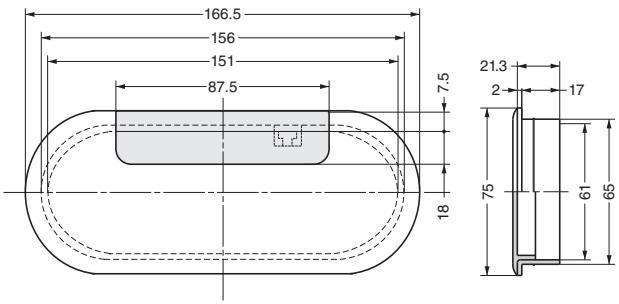
CABLE GROMMET

S165-76

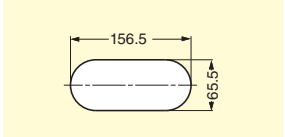


■Features

- Please push ▭ into back when using thin cables.
- All the front parts are removable for wide opening.



■Cut Out Dimensions

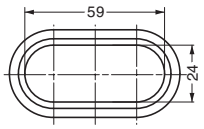


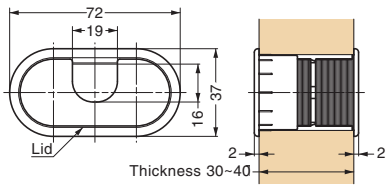
Item Code	Item Name	Colour	Material	Weight	Box	Carton
210-031-827	S165-76CM	Ivory	ABS	48 g	5 pcs	50 pcs
210-031-826	S165-76W	White	ABS	48 g	5 pcs	50 pcs
210-031-825	S165-76G	Grey	ABS	48 g	5 pcs	50 pcs
210-031-824	S165-76B	Black	ABS	48 g	5 pcs	50 pcs

CABLE GROMMET LN72

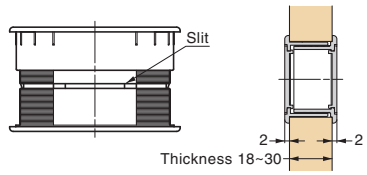






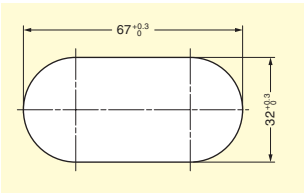


■After Cutting Slit



■Features
- Double sided cable grommet.
- Applicable board thickness: 30 mm - 40 mm. Also available for 18 mm - 30 mm thickness board by cutting the slit on body.
- Lid is removable for wide opening.

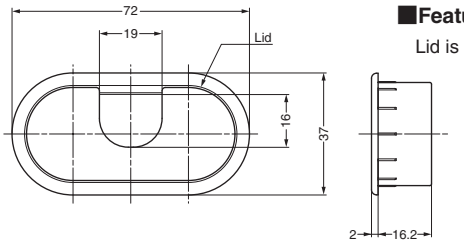
■Cut Out Dimensions

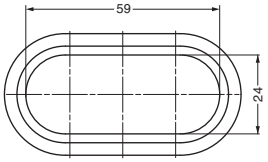


Item Code	Item Name	Colour	Material	Weight	Box	Carton
210-020-562	LN72-WT	White	ABS	19 g	40 pcs	320 pcs
210-020-563	LN72-BL	Black	ABS	19 g	40 pcs	320 pcs

CABLE GROMMET LN72S

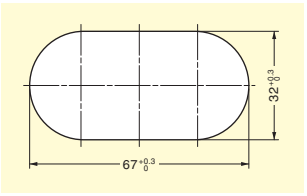






■Features
Lid is removable for wide opening.

■Cut Out Dimensions



Item Code	Item Name	Colour	Material	Weight	Box	Carton
210-021-706	LN72S-WT	White	ABS	9 g	40 pcs	320 pcs
210-021-707	LN72S-BL	Black	ABS	9 g	40 pcs	320 pcs

CABLE GROMMET LN72P



■LN72 (Above)

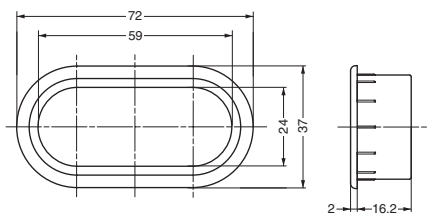


Double sided adjustable grommet

■LN72S (Above)

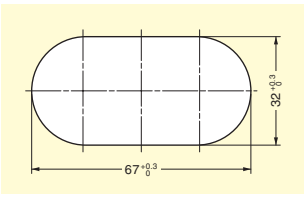


One sided adjustable grommet



■Features
Without cap version of LN72S (above).

■Cut Out Dimensions

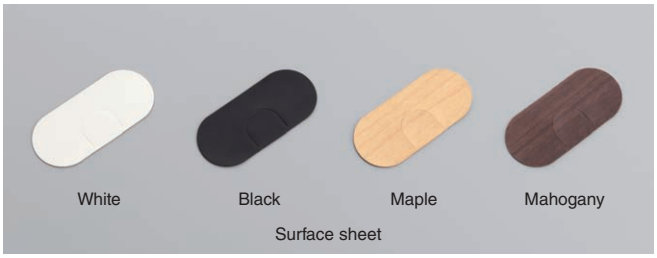


Item Code	Item Name	Finish	Material	Weight	Box	Carton
210-024-225	LN72P-CR	Chrome	ABS	8 g	40 pcs	320 pcs
210-026-235	LN72P-DC	Dull Chrome	ABS	8 g	40 pcs	320 pcs
210-024-226	LN72P-GC	Gold	ABS	8 g	40 pcs	320 pcs

CABLE GROMMET

LN72SF



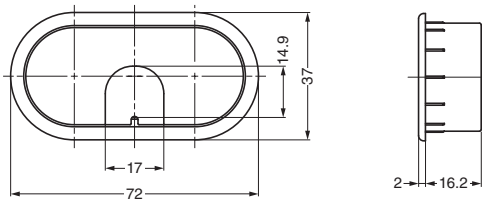


■Features

- 4 different finishes available.
- Cap is removable for wide opening.

■Sold Separately

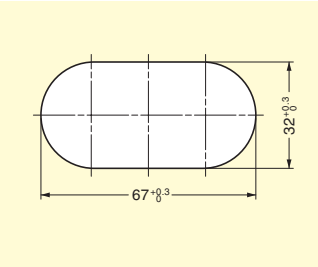
Surface sheet LN72SF-ST

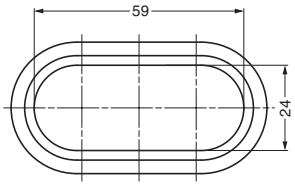


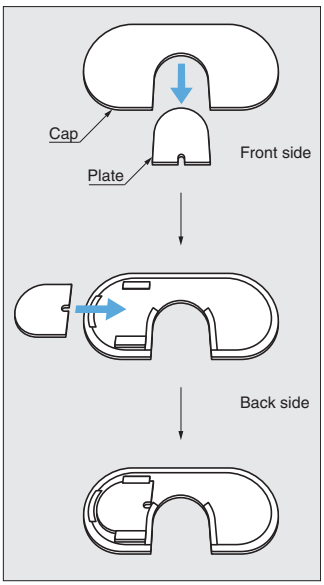
■Combination Example



■Cut Out Dimensions







■Main Body

Item Code	Item Name	Colour	Material	Weight	Box	Carton
210-024-223	LN72SF-WT	White	ABS	9 g	40 pcs	320 pcs
210-024-224	LN72SF-BL	Black				

■Surface Sheet (Sold Separately)

Item Code	Item Name	Colour	Weight	Box
210-025-807	LN72SF-ST-WT	White	0.9 g	1500 pcs
210-025-808	LN72SF-ST-BL	Black		
210-026-450	LN72SF-STMAP	Maple		700 pcs
210-026-449	LN72SF-STMAO	Mahogany		

CABLE GROMMET

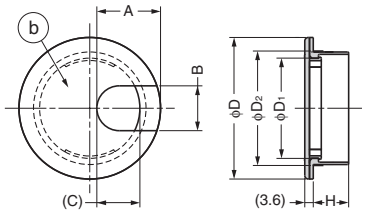
LSU, LS

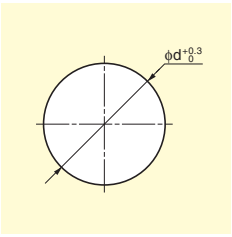


■Features

- Double sided cable grommet.
- Cap ⓑ is removable for wide opening.

■Cut Out Dimensions





Item Code	Item Name	Colour	Material	D	D1	D2	A	B	C	t	d	Weight	Box	Carton
210-017-353	LSU60WT	White	ABS	60	42.5	48.5	27	19	18	12～18	48.5	19 g	20 pcs	160 pcs
210-029-534	LSU60BE	Beige	ABS									19 g	20 pcs	160 pcs
210-029-533	LSU60LBR	Light Brown	ABS									19 g	20 pcs	160 pcs
210-029-532	LSU60DBR	Dark Brown	ABS									19 g	20 pcs	160 pcs
210-017-354	LSU60BL	Black	ABS									19 g	20 pcs	160 pcs
210-035-071	LS60WT	White	ABS							18～24		20 g	20 pcs	160 pcs
210-029-126	LS60BE	Beige	ABS									20 g	20 pcs	160 pcs
210-029-535	LS60LBR	Light Brown	ABS									20 g	20 pcs	160 pcs
210-029-536	LS60DBR	Dark Brown	ABS									20 g	20 pcs	160 pcs
210-035-070	LS60BL	Black	ABS									20 g	20 pcs	160 pcs
210-031-304	LS76WT	White	ABS	76	58.2	64.2	34	22	25.1	25～40	64.2	36 g	12 pcs	96 pcs
210-029-537	LS76BE	Beige	ABS									36 g	12 pcs	96 pcs
210-029-538	LS76LBR	Light Brown	ABS									36 g	12 pcs	96 pcs
210-029-539	LS76DBR	Dark Brown	ABS									36 g	12 pcs	96 pcs
210-031-305	LS76BL	Black	ABS									36 g	12 pcs	96 pcs

CABLE GROMMET

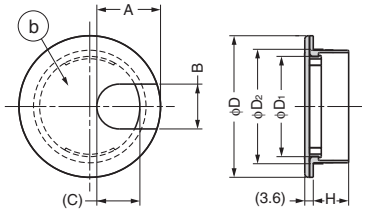
LSU-S, LS-S

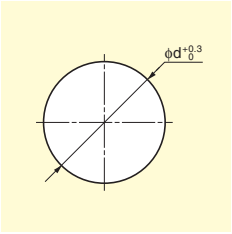


■Features

Cap ⓑ is removable for wide opening.

■Cut Out Dimensions

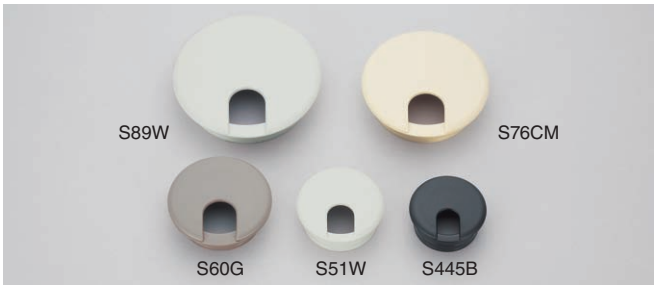




Item Code	Item Name	Colour	Material	D	D1	D2	H	A	B	C	d	Weight	Box	Carton
210-029-540	LSU60S-WT	White	ABS	60	42.5	48.5	11.5	27	19	18	48.5	11 g	20 pcs	160 pcs
210-029-541	LSU60S-BE	Beige	ABS									11 g	20 pcs	160 pcs
210-029-542	LSU60S-LBR	Light Brown	ABS									11 g	20 pcs	160 pcs
210-029-543	LSU60S-DBR	Dark Brown	ABS									11 g	20 pcs	160 pcs
210-029-544	LSU60S-BL	Black	ABS									11 g	20 pcs	160 pcs
210-029-545	LS60S-WT	White	ABS				15					12 g	20 pcs	160 pcs
210-029-546	LS60S-BE	Beige	ABS									12 g	20 pcs	160 pcs
210-029-547	LS60S-LBR	Light Brown	ABS									12 g	20 pcs	160 pcs
210-029-548	LS60S-DBR	Dark Brown	ABS									12 g	20 pcs	160 pcs
210-029-549	LS60S-BL	Black	ABS									12 g	20 pcs	160 pcs
210-029-550	LS76S-WT	White	ABS	76	58.2	64.2	23.5	34	22	25.1	64.2	20 g	12 pcs	96 pcs
210-029-551	LS76S-BE	Beige	ABS									20 g	12 pcs	96 pcs
210-029-552	LS76S-LBR	Light Brown	ABS									20 g	12 pcs	96 pcs
210-029-553	LS76S-DBR	Dark Brown	ABS									20 g	12 pcs	96 pcs
210-029-554	LS76S-BL	Black	ABS									20 g	12 pcs	96 pcs

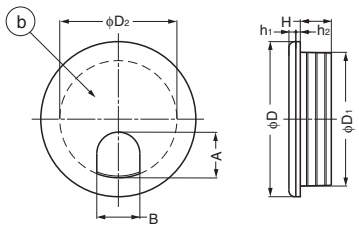
CABLE GROMMET

S445, S51, S60, S76, S89

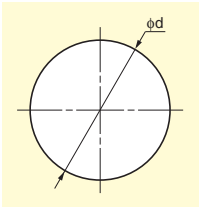


■Features

Cap ⓑ is removable for wide opening.



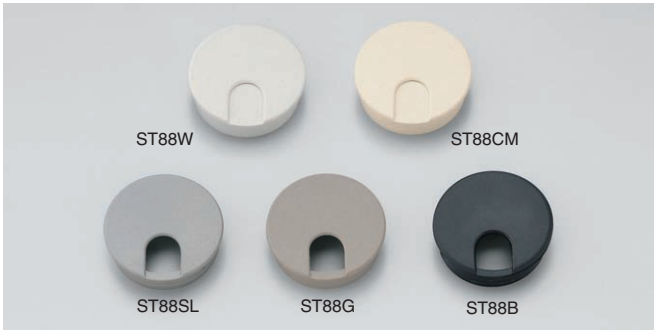
■Cut Out Dimensions



Item Code	Item Name	Colour	Material	D	D₁	D₂	H	h₁	h₂	A	B	d	Weight	Box	Carton
210-031-830	S445CM	Ivory	ABS	45	38.8	34	16.4	2	1.3	16.7	12.5	39	9 g	50 pcs	450 pcs
210-031-831	S445W	White	ABS										9 g	50 pcs	450 pcs
210-031-829	S445G	Grey	ABS										9 g	50 pcs	450 pcs
210-031-828	S445B	Black	ABS										9 g	50 pcs	450 pcs
210-031-834	S51CM	Ivory	ABS	51	44.8	39.7	16.3		1.6	19	15.5	45	11 g	30 pcs	300 pcs
210-031-835	S51W	White	ABS										11 g	30 pcs	300 pcs
210-031-833	S51G	Grey	ABS										11 g	30 pcs	300 pcs
210-031-832	S51B	Black	ABS										11 g	30 pcs	300 pcs
210-031-838	S60CM	Ivory	ABS	60.5	48.8	44	16.2			20.8	19	49	14 g	25 pcs	250 pcs
210-031-839	S60W	White	ABS										14 g	25 pcs	250 pcs
210-031-837	S60G	Grey	ABS										14 g	25 pcs	250 pcs
210-031-836	S60B	Black	ABS										14 g	25 pcs	250 pcs
210-031-814	S76CM	Ivory	ABS	76.5	64.8	59	16.1	2.6		21.5	21.5	65	22 g	15 pcs	150 pcs
210-031-815	S76W	White	ABS										22 g	15 pcs	150 pcs
210-031-813	S76G	Grey	ABS										22 g	15 pcs	150 pcs
210-031-812	S76B	Black	ABS										22 g	15 pcs	150 pcs
210-031-818	S89CM	Ivory	ABS	89.4	76.8	71.4	16.5		1.5	25	22	77	30 g	10 pcs	90 pcs
210-031-819	S89W	White	ABS										30 g	10 pcs	90 pcs
210-031-817	S89G	Grey	ABS										30 g	10 pcs	90 pcs
210-031-816	S89B	Black	ABS										30 g	10 pcs	90 pcs

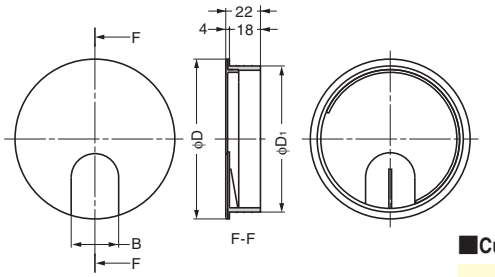
CABLE GROMMET

ST70, ST88

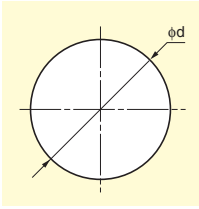


■Features

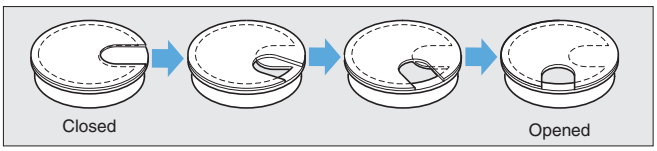
Cover rotates 90 degrees.



■Cut Out Dimensions



■Cover

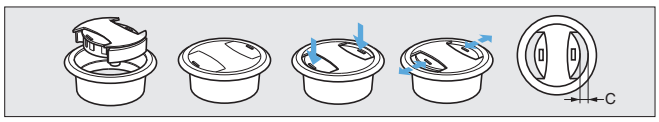


Item Code	Item Name	Colour	Material	D	D₁	B	d	Weight	Box	Carton
210-031-802	ST70W	White	ABS	70	60	22	60	20 g	15 pcs	150 pcs
210-031-803	ST70CM	Ivory	ABS	70	60	22	60	20 g	15 pcs	150 pcs
210-031-804	ST70SL	Silver	ABS	70	60	22	60	20 g	15 pcs	150 pcs
210-031-805	ST70G	Grey	ABS	70	60	22	60	20 g	15 pcs	150 pcs
210-031-806	ST70B	Black	ABS	70	60	22	60	20 g	15 pcs	150 pcs
210-031-807	ST88W	White	ABS	88	80	26	80	31 g	10 pcs	80 pcs
210-031-808	ST88CM	Ivory	ABS	88	80	26	80	31 g	10 pcs	80 pcs
210-031-809	ST88SL	Silver	ABS	88	80	26	80	31 g	10 pcs	80 pcs
210-031-810	ST88G	Grey	ABS	88	80	26	80	31 g	10 pcs	80 pcs
210-031-811	ST88B	Black	ABS	88	80	26	80	31 g	10 pcs	80 pcs

CABLE GROMMET

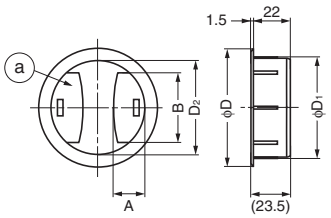
S70, S91



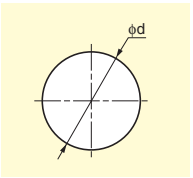


■Features

- For thin cables, slide the part ⓐ.
- All the front parts are removable for wide opening.



■Cut Out Dimensions



■Application



Item Code	Item Name	Colour	Material	D	D₁	D₂	A	B	C	d	Weight	Box	Carton
210-028-542	S70W	White	ABS	70.5	60	56	19	41.5	7	60	29 g	15 pcs	150 pcs
210-028-543	S70CM	Ivory	ABS	70.5	60	56	19	41.5	7	60	29 g	15 pcs	150 pcs
210-028-544	S70G	Grey	ABS	70.5	60	56	19	41.5	7	60	29 g	15 pcs	150 pcs
210-028-545	S70BR	Brown	ABS	70.5	60	56	19	41.5	7	60	29 g	15 pcs	150 pcs
210-028-546	S70B	Black	ABS	70.5	60	56	19	41.5	7	60	29 g	15 pcs	150 pcs
210-028-547	S91W	White	ABS	91	80	76	25	55	10	80	40 g	10 pcs	90 pcs
210-028-548	S91CM	Ivory	ABS	91	80	76	25	55	10	80	40 g	10 pcs	90 pcs
210-028-549	S91G	Grey	ABS	91	80	76	25	55	10	80	40 g	10 pcs	90 pcs
210-028-550	S91BR	Brown	ABS	91	80	76	25	55	10	80	40 g	10 pcs	90 pcs
210-028-551	S91B	Black	ABS	91	80	76	25	55	10	80	40 g	10 pcs	90 pcs

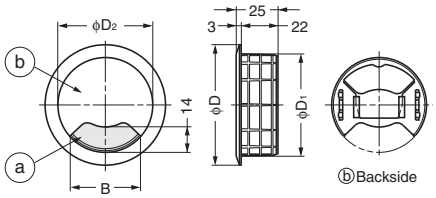
CABLE GROMMET

V60, V80

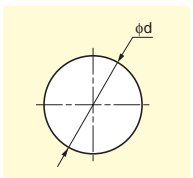


■Features

- Remove the part ⓐ for thin cables and keep on the backside pocket.
- All the front parts are removable for wide opening.



■Cut Out Dimensions

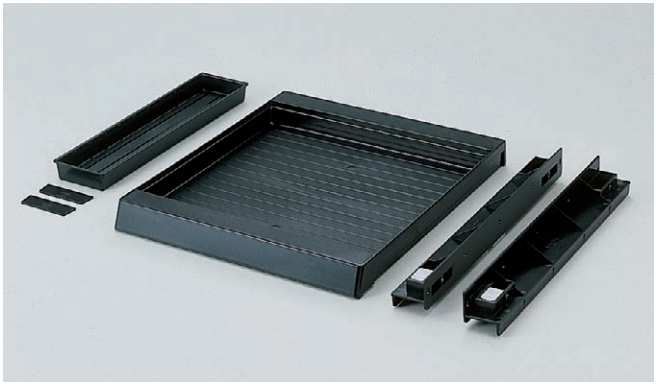


Item Code	Item Name	Colour	Material	D	D₁	D₂	B	d	Weight	Box	Carton
210-031-857	V60W	White	Polystyrene (HIPS)	72	61	56.7	41	60.5	25 g	15 pcs	150 pcs
210-031-859	V60BE	Beige	Polystyrene (HIPS)	72	61	56.7	41	60.5	25 g	15 pcs	150 pcs
210-031-858	V60DBE	Dark Beige	Polystyrene (HIPS)	72	61	56.7	41	60.5	25 g	15 pcs	150 pcs
210-031-866	V60SL	Silver	Polystyrene (HIPS)	72	61	56.7	41	60.5	25 g	15 pcs	150 pcs
210-031-865	V60RG	Light Brown	Polystyrene (HIPS)	72	61	56.7	41	60.5	25 g	15 pcs	150 pcs
210-031-856	V60B	Black	ABS	72	61	56.7	41	60.5	25 g	15 pcs	150 pcs
210-031-853	V80W	White	Polystyrene (HIPS)	92	80.5	77	50	80	38 g	10 pcs	80 pcs
210-031-855	V80BE	Beige	Polystyrene (HIPS)	92	80.5	77	50	80	38 g	10 pcs	80 pcs
210-031-854	V80DBE	Dark Beige	Polystyrene (HIPS)	92	80.5	77	50	80	38 g	10 pcs	80 pcs
210-031-867	V80SL	Silver	Polystyrene (HIPS)	92	80.5	77	50	80	38 g	10 pcs	80 pcs
210-031-864	V80RG	Light Brown	Polystyrene (HIPS)	92	80.5	77	50	80	38 g	10 pcs	80 pcs
210-031-852	V80B	Black	ABS	92	80.5	77	50	80	38 g	10 pcs	80 pcs

TRAY UNIT

STEEL

TU-380







■**Features**

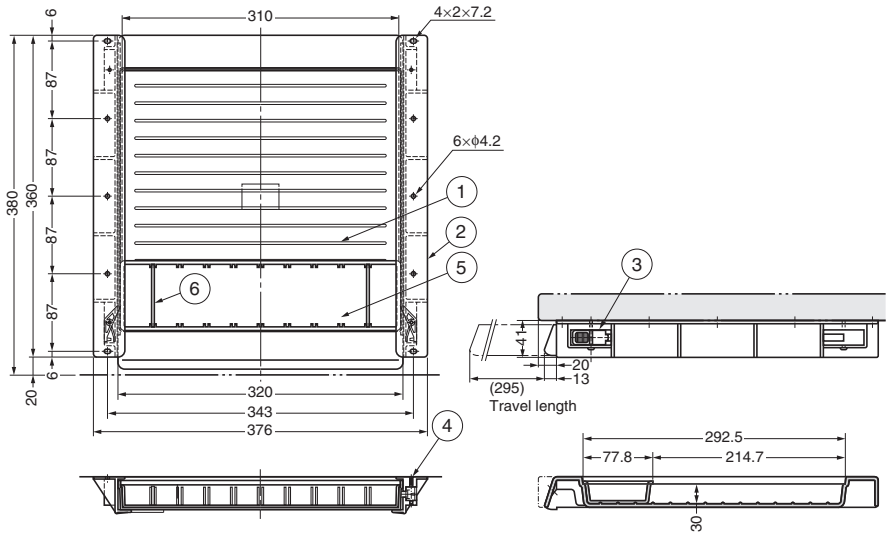
With pen tray and two partitions.

■**Parts Included**

Binding head tapping screw 4×49

■**How to Install**





No.	Part Name	Material	Colour	PCS
①	Tray	ABS	Black	1 pc
②	Rail	ABS	Black	2 pcs
③	Stopper	Polyacetal (POM)	Natural	2 pcs
④	Stopper Pin	Steel	Black	2 pcs
⑤	Pen Tray	High Impact Polystyrene	Black	1 pc
⑥	Panel	High Impact Polystyrene	Black	2 pcs

Item Code	Item Name	Weight	Box	Carton
210-030-171	TU-380	845 g	1 set	10 sets

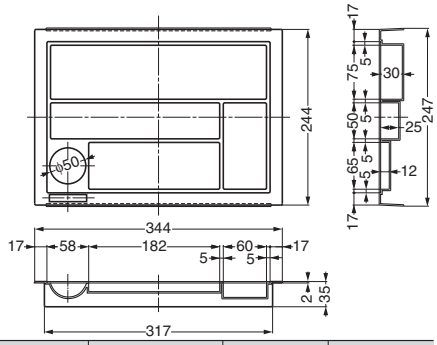
PEN TRAY

PT-1



■**Application Example**





Item Code	Item Name	Material	Colour	Weight	Carton
210-030-130	PT-1	Plastic	Black	310 g	20 pcs

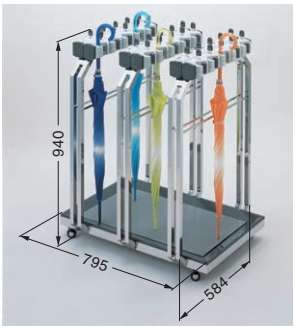
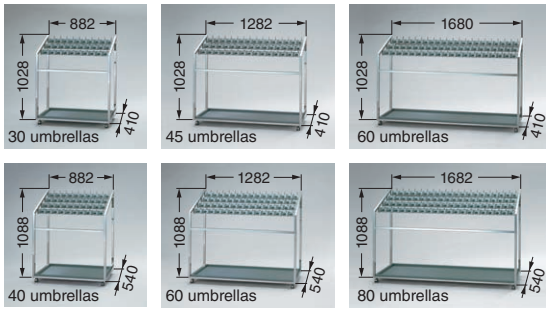
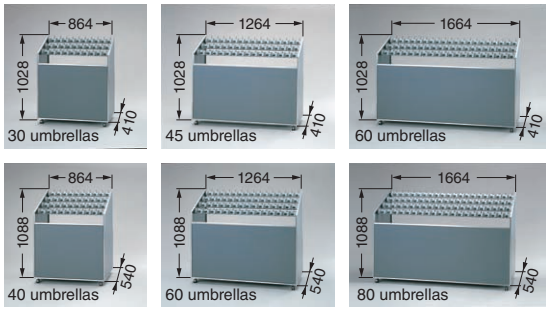
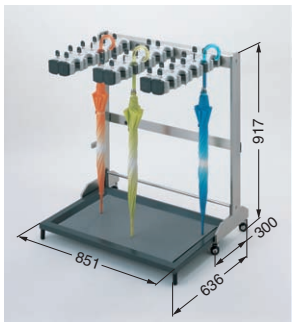
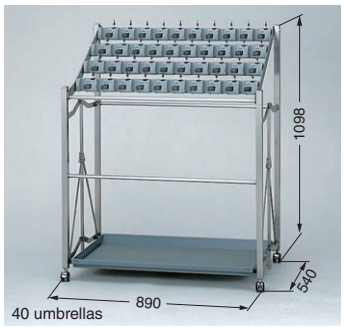
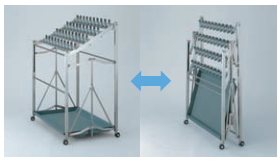
UMBRELLA STAND

STAINLESS 304 STEEL

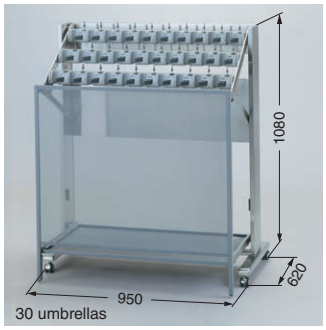
■Features

- ●Made of stainless steel (SUS304).
- ●High security locking mechanism.
- ●Made to order.

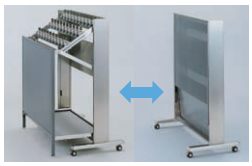
■Portable Type

		Lock	Specification		Capacity
AU-PS103		PS-U360	Un-foldable	Open Frame	30 umbrellas
AU-SA		ST-U100	Un-foldable	Open Frame	30-80 umbrellas
AU-SC	 Side panel 	ST-U100	Un-foldable	With Front Cover	30-80 umbrellas
AU-PO103	 	PS-U360	Foldable	Open Frame	30 umbrellas
AU-SO	   	ST-U100	Foldable	Open Frame	40, 60 umbrellas

AU-ST



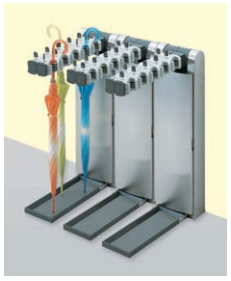




Lock	Specification		Capacity
ST-U100	Foldable	With Front Cover	30, 45 umbrellas

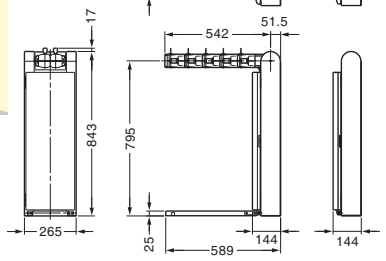
■Wall-mount Type

AU-PF101





The image is when connecting 3 units.



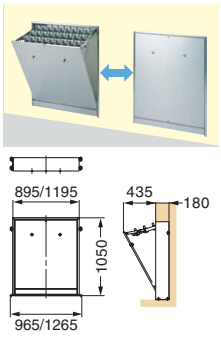
Lock	Specification		Capacity
PS-U360	Wall-mount	Open Frame	10 umbrellas

AU-SF

Lapcon



With lock on the front cover.



Soft-closing & soft-opening



Lock	Specification		Capacity
ST-U100	Wall-mount	With Front Cover	27, 39 umbrellas

LOCK ST-U100



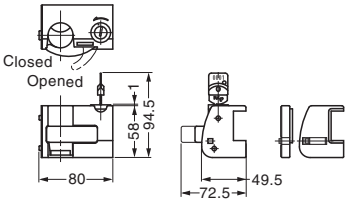


■Features

- Spare parts for umbrella stands.
- Put the umbrella in the hole and latch the lever to lock.
- Made with materials of high corrosion resistance.
- High security locking mechanism.
- Made to order.

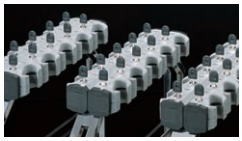
■Compatible Model

AU-SA, AU-SC, AU-SO, AU-ST, AU-SF



LOCK PS-U360



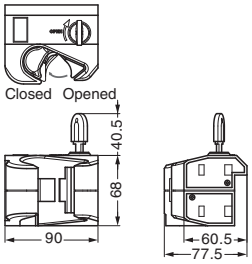


■Features

- Spare parts for umbrella stands.
- Easy operation. Simply push the umbrella in the hole to lock.
- Made with material of high corrosion resistance.
- High security locking mechanism.
- Made to order.

■Compatible Model

AU-PS, AU-PO, AU-PF



SWIVEL

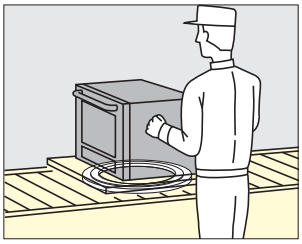
HF

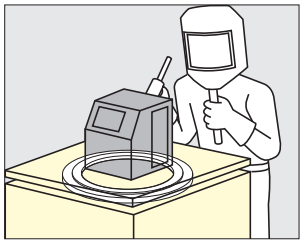


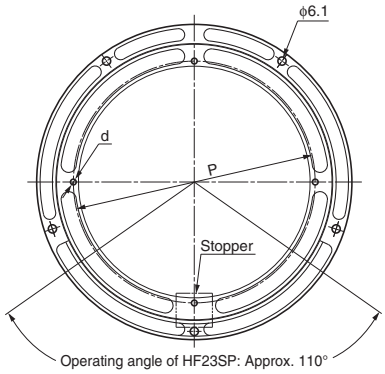
■Features

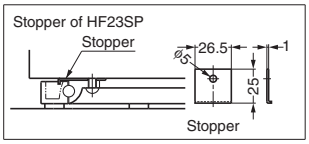
- For tables such as TV monitors and worktables.
- Rubber stoppers prevent from slipping.
- Top plate has holes to fix on table.

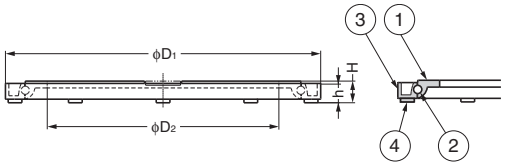
■Application Example









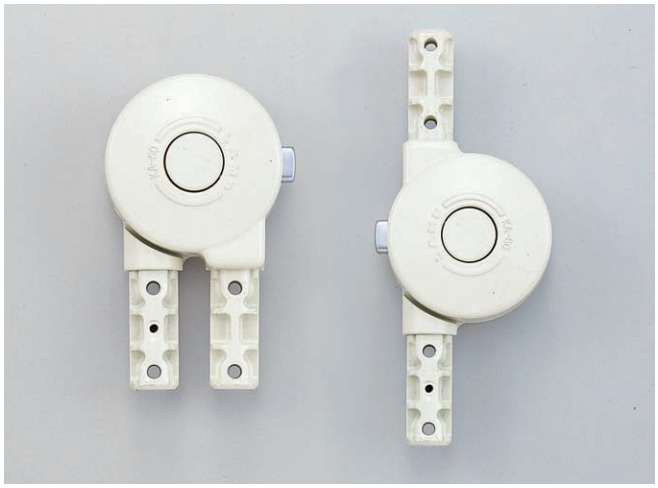


No.	Part Name	Material	Finish/Colour
①	Top Plate	Aluminium Alloy	As below
②	Balls	Steel	—
③	Base Plate	Aluminium Alloy	As below
④	Leg	Rubber	White

Item Code	Item Name	Stopper	Finish	D_1	D_2	P	H	h	d	Holes	Load Capacity		Weight	Box
210-035-222	HF23SP	With	Polished	230	166	176	16	15	ϕ4.8	4	392 N	40 kgf	0.37 kg	40 pcs
210-035-220	HF30	Without	Polished	325	265	275.5	16	15	ϕ4.8	6	588 N	60 kgf	0.55 kg	20 pcs
210-035-221	HF45	Without	Polished	442	380	392	22	16.5	ϕ4.8, ϕ10 CSK	6	980 N	100 kgf	1.60 kg	10 pcs
210-035-226	HF60	Without	Silver	600	520	538	24	18.5	ϕ4.8, ϕ12 CSK	4	1960 N	200 kgf	3.20 kg	5 pcs

MULTI ANGLE STAY

KA-60

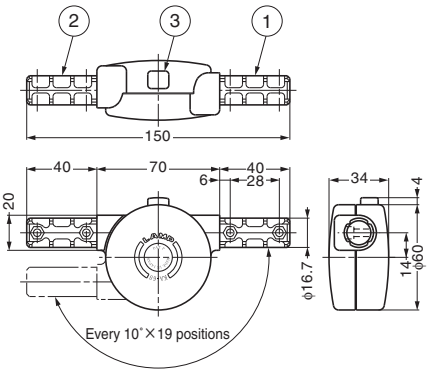


■Features

- Angle can be adjusted from 0° - 180° by 10° increments.
- Completely locked when your hands are off the release button.

■Remarks

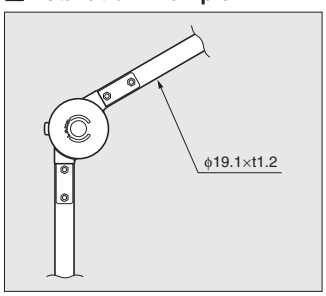
Pipe not included.







■Installation Example



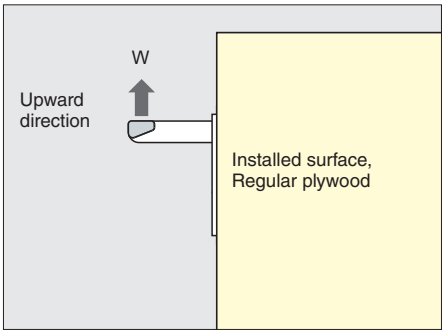
No.	Part Name	Material	Finish
①	Body A	Aluminium Alloy	Ivory
②	Body B	Aluminium Alloy	Ivory
③	Release Button	Aluminium Alloy	Chrome

Item Code	Item Name	Applicable Pipe	Load Capacity		Weight	Box	Carton
170-890-570	KA-60	ϕ19.1×t1.2	25 N·m	2.5 kgf·m	190 g	6 pcs	60 pcs

TEST METHODS

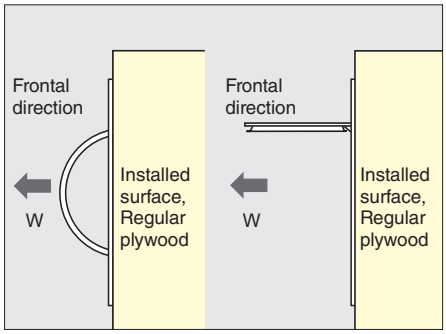
Various values about products with Test METHOD icon, such as the load capacity, hanging load capacity, catch force and retaining force, are determined by the tests performed by our company as described below. Values are to provide guidance for the safe use of our products. Product without Test METHOD icon may not be based on these criteria in some cases.

LOAD CAPACITY TEST (TEST 1)



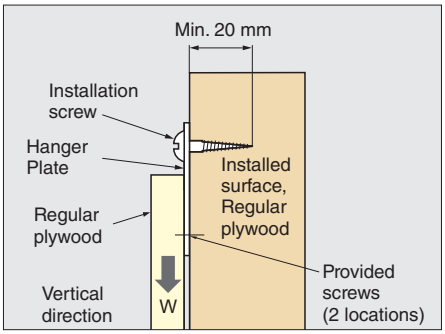
The load capacity is measured when the force (W) is gently applied in the direction of the arrow under the condition indicated by the figure.

LOAD CAPACITY TEST (TEST 2)



The load capacity is measured when the force (W) is gently applied in the direction of the arrow under the condition indicated by the figure.
Product may fail or distort if the force is applied in a direction other than the frontal direction. Please do not use on application other than in the pull direction.

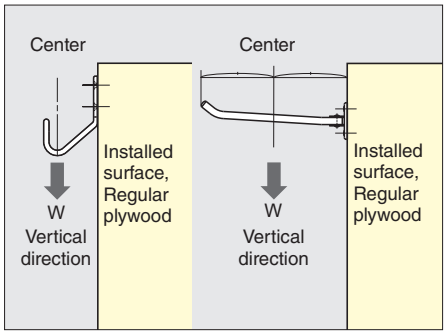
HANGING-LOAD CAPACITY TEST (TEST 3)



The hanging-load capacity is measured when the force (W) is gently applied in the direction of the arrow under the condition indicated by the figure.
This value will vary according to the diameter / length of the screw(s) used and strength of the installed surface.

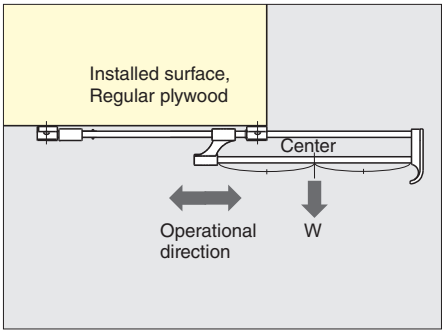
Hanging load of 10 kgf, in case of using round-head wood screw 3.8 x 25.

HANGING-LOAD CAPACITY TEST (TEST 4)



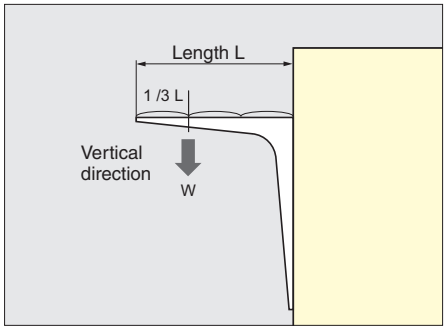
The hanging-load capacity is measured when the force (W) is gently applied at the center of the product in the direction of the arrow under the condition indicated by the figure.

MAXIMUM HANGING-LOAD TEST (TEST 5)



The maximum hanging-load capacity is measured when the force (W) is gently applied in the direction of the arrow and operated under the condition indicated by the figure.
If the load is concentrated at the front tip of the hanger, the front tip may sag or the movement may become heavy.

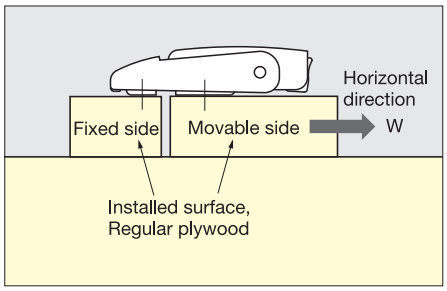
LOAD CAPACITY TEST (TEST 6)



The load capacity is measured when the force (W) is gently applied in the direction of the arrow under the condition indicated by the figure.
(This is based on the force (W) applied at the center of the shelf board with its length 4/3 times longer than the shelf bracket or angle bracket.)

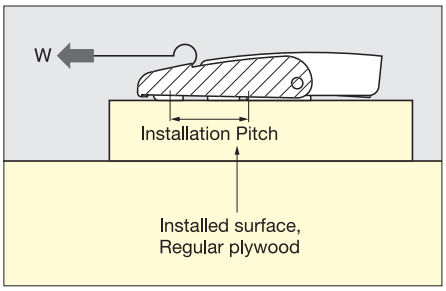
TEST METHODS

LOAD CAPACITY TEST (TEST 7)



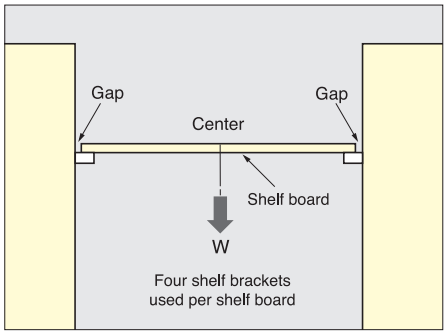
The load capacity is measured when the force (W) is gently applied in the direction of the arrow under the condition indicated by the figure.

CLAMPING FORCE TEST UNDER STANDARD INSTALLATION (TEST 8)



The capacity of the clamping force under standard installation is measured when the force (W) is gently applied in the direction of the arrow under the condition indicated by the figure, and when the shaded portion begins to slide.

LOAD CAPACITY TEST (TEST 9)

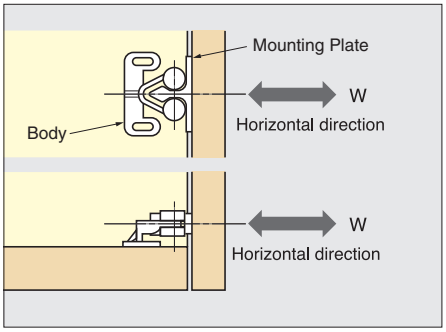


The load capacity is measured when the force (W) is gently applied in the direction of the arrow under the condition indicated by the figure.
Follow the conditions below to prevent the shelf bracket or shelf board from falling off.

1: The total gap between the shelf board and side board shall be 1 mm or less.

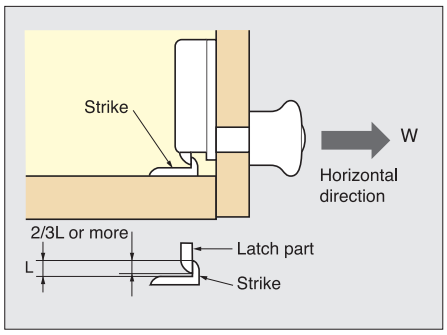
2: Use shelf board which has sufficient durability.

CATCH FORCE TEST (TEST 10)



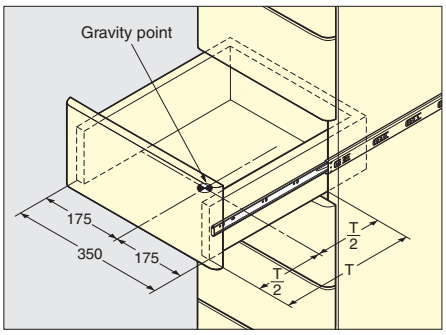
The catch force is measured when the force (W) is gently applied in the direction of the arrow under the condition indicated by the figure.
Note: Misalignment of the mounting plate and body parts may cause the catch force to decrease or parts failure.

RETAINING FORCE TEST (TEST 11)



The retaining force is measured when the force (W) is gently applied in the direction of the arrow under the condition indicated by the figure.
Note: Latch and strike must be engaged at least 2/3L or more. (See the figure.)

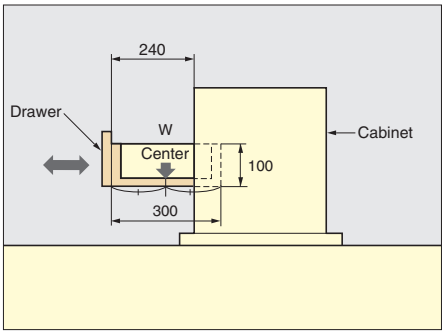
LOAD CAPACITY TEST (TEST 12)



The load capacity is measured based on the condition:
- Continuous open-close 50,000 cycles
- Speed 10 cycles per minute
- Load is applied on the gravity point. The figure of load capacity includes drawer itself.
- Drawer width 350 mm

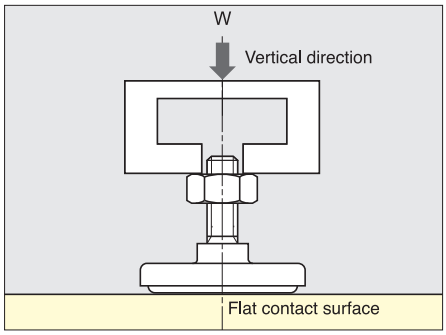
TEST METHODS

TEST METHOD LOAD CAPACITY TEST (TEST 13)



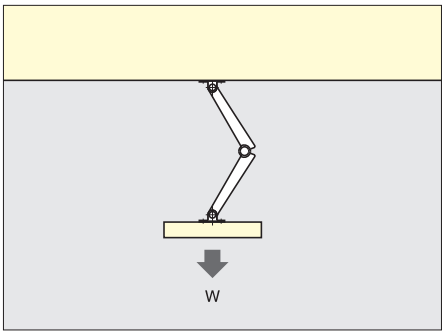
The load capacity is measured when the force (W) is gently applied in the direction of the arrow under the condition indicated by the figure.
The gap between drawer and cabinet shall be 1 mm or less.

TEST METHOD LOAD CAPACITY TEST (TEST 14)



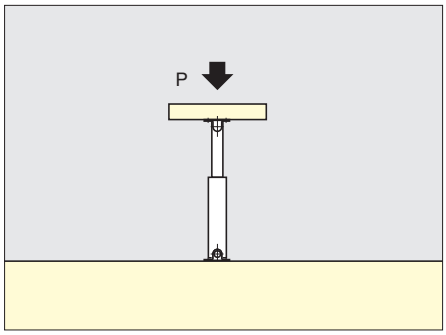
The load capacity is measured when the force (W) is applied in the direction of the arrow under the condition indicated in the figure.
Product may break or distort if the contact surface is not flat.

TEST METHOD PULL LOAD TEST (TEST 15)



The pull load capacity is measured when the force (W) is gently applied in the direction of the arrow under the condition indicated by the figure.

TEST METHOD COMPRESSION LOAD TEST (TEST 16)



The compression load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.

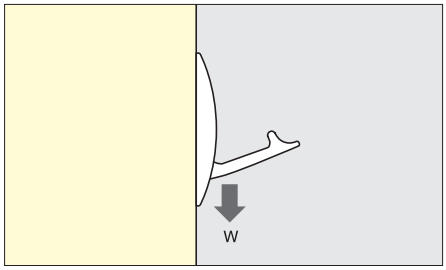
TEST METHOD PERMISSIBLE LOAD OF FASTENER (TEST 17)

The permissible load is based on the following safety factor:

Permissible load kgf = Ultimate Load ÷ 3

The safety factor will vary depending on the conditions of use. When used under adverse conditions, please test the fastener in intended application.

TEST METHOD HOOK LOAD CAPACITY TEST (TEST 18)



The load capacity is measured when the force (W) is gently applied in the direction of the arrow under the condition indicated by the figure.

The load capacity is based on the following safety factor:

Load capacity kgf = Ultimate Load ÷ 3

However, the safety factor will vary depending on the conditions of use. When used under adverse conditions, please test the hook in intended application.

MATERIALS

Material	Type	Characteristics
430 Stainless Steel	Ferretic	18% Chromium (Cr) added to steel. Commonly used because of its excellent formability and cost performance. Low corrosion resistance compared to 304 grade.
304 Stainless Steel	Austenitic	Most common grade which contains 18% chromium and 8% nickel, also called 18/8 stainless steel. Low carbon content, excellent formability and weldability with good corrosion resistance.
316 Stainless Steel	Austenitic	Nickel (Ni) and Molybdenum (Mo) added to maximize corrosion resistance. Better acid and pitting resistance than 304 grade. Also has high strength at high temperature.
Zinc Alloy	-	This is an alloy having zinc (Zn) as main component along with other materials such as aluminium (Al), copper (Cu), magnesium (Mg), iron (Fe), etc. This alloy is widely used along with aluminium alloy for die-casting. Zinc alloy facilitates the manufacturing of product with high dimensional accuracy, beautiful cast surface, and it can be plated for superior corrosion resistance. Zinc Alloy also has superior mechanical characteristics such as high tensile strength, compressive strength, hardness, bend (flexural) strength, modulus of elasticity, etc.
Aluminium Alloy	-	This is an alloy having aluminium (Al) as a main component along with other materials such as copper (Cu), silicon (Si), iron (Fe), magnesium (Mg), zinc (Zn), etc. Aluminium alloy is the most widely used material today for die-casting. This alloy facilitates the manufacturing of lightweight product having appropriate mechanical characteristics and corrosion resistance. Also it has good physical characteristics such as fine thermal conductivity, and also the characteristics do not change at low temperature.
Brass	-	Brass is an alloy having copper (Cu) and zinc (Zn) as the main components. It has yellow (or golden) color and good cutting characteristics. This alloy is easy to fabricate and is often used for the body of locks, hinges, handles, etc.

Material	Acronym	Characteristics
ABS Resin	ABS	Thermal plastic developed to enhance the impact resistance of polystyrene. ABS can be plated.
Polyamide	PA	Very resistant to wear and abrasion suitable for parts like gears and bearings. Also has good chemical and oil resistance.
Polypropylene	PP	Strong against organic solvent. Difficult for adhesion and painting. Resistant to bending stress ideal for bending applications.
Polyacetal	POM	Superior abrasion resistance. Good tensile/bending strength and elasticity.
Polyethlene	PE	Low material cost. Excellent formability usable for various application. Has very low water absorption rate, suitable for water resistant purpose.
Polycarbonate	PC	High impact resistance and good dimensional stability for high precision. Also has high transparency.

SURFACE TREATMENT

Finish	Characteristics
Zinc Plating	Zinc plating is commonly used on steel to prevent oxidation. Chromate is generally applied over zinc to enhance corrosion resistance.
Chromate Conversion Coating	Major coating mainly applied on parts after zinc plated or cadmium plated. Parts are immersed in a solution mainly consisting of chromic acid or heavy chromic acid to create the coating. This is used to improve corrosion resistance and appearance of metals, metal coloration, and is also used as a pre-treatment for painting. Various chromate coatings are developed such as yellow chromate (rainbow color), clear chromate, black chromate, green chromate, etc.
Chrome Plating	Common electroplating for various industrial purposes. Reflective finish can be achieved by polishing. High hardness and good corrosion resistance along with thermal resistance, abrasion resistance and good adhesion characteristics. Generally used as final finish for various decorative parts and products due to its uniquely deep coloration.
Nickel Plating	Nickel is commonly used for decorative and anti-corrosion purpose because of its stability against air or humidity compared to iron. However, since the surface of the nickel plating will slightly discolor through exposure to air, chrome is often used after nickel to keep the finish/color. Nickel plating has moderate hardness / corrosion-resistance and widely used on industrial application.
Alumite or Anodizing (Anodic Oxidation Film Processing)	Also called the “anodic oxidation film processing”. This process thickens and toughens natural oxide layer on metal, commonly applied to aluminium for corrosion resistance and dyeing. In aluminium anodizing, aluminium object serves as the anode (the positive electrode) when electrolyzed in the sulfuric acid. This will create a layer of porous oxide film which has high electric insulation and abrasion resistance. The film is normally transparent when it is thin, although it becomes dull as the thickness increases. The pores produced by anodizing are closed by a process called sealing, which is done by high-pressurized or boiling-hot deionized water. This process fills the pores and creates a thin layer that is corrosion resistant, suitable for various aluminum parts / products.

■Hexavalent-Chromium (CR6) Free

Sugatsune is strictly controlling the use of chemicals that would adversely impact the environment. We are designing and developing products with minimum use of materials which has adverse environmental impact. Hexavalent chromium compound is especially known for its adverse effects on the human body. We are actively substituting this Hexavalent-chromium (CR6) with the environment friendly Trivalent-chromium (CR3).

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120-C34/19	CONCEALED HINGE	378
120-C34/9	CONCEALED HINGE	380
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1-2222	STAINLESS STEEL VENTILATOR	810
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Wooden Door Weight Table

The below density is only for reference and it may differ depending on their material and specification.

■Door Weight (kg)

Door Type	MDF (Density 0.8)					Particle Board (Density 0.6)					Plywood (Density 0.6)					Flush (Density 0.5)				
Door Thickness mm / Door Size mm	16	19	22	25	35	16	19	22	25	35	16	19	22	25	35	16	19	22	25	35
300× 400	1.5	1.8	2.1	2.4	3.4	1.2	1.4	1.6	1.8	2.5	1.2	1.4	1.6	1.8	2.5	1.0	1.1	1.3	1.5	2.1
300× 500	1.9	2.3	2.6	3.0	4.2	1.4	1.7	2.0	2.3	3.2	1.4	1.7	2.0	2.3	3.2	1.2	1.4	1.7	1.9	2.6
300× 600	2.3	2.7	3.2	3.6	5.0	1.7	2.1	2.4	2.7	3.8	1.7	2.1	2.4	2.7	3.8	1.4	1.7	2.0	2.3	3.2
300× 700	2.7	3.2	3.7	4.2	5.9	2.0	2.4	2.8	3.2	4.4	2.0	2.4	2.8	3.2	4.4	1.7	2.0	2.3	2.6	3.7
300× 800	3.1	3.6	4.2	4.8	6.7	2.3	2.7	3.2	3.6	5.0	2.3	2.7	3.2	3.6	5.0	1.9	2.3	2.6	3.0	4.2
300× 900	3.5	4.1	4.8	5.4	7.6	2.6	3.1	3.6	4.1	5.7	2.6	3.1	3.6	4.1	5.7	2.2	2.6	3.0	3.4	4.7
300×1000	3.8	4.6	5.3	6.0	8.4	2.9	3.4	4.0	4.5	6.3	2.9	3.4	4.0	4.5	6.3	2.4	2.9	3.3	3.8	5.3
400× 500	2.6	3.0	3.5	4.0	5.6	1.9	2.3	2.6	3.0	4.2	1.9	2.3	2.6	3.0	4.2	1.6	1.9	2.2	2.5	3.5
400× 600	3.1	3.6	4.2	4.8	6.7	2.3	2.7	3.2	3.6	5.0	2.3	2.7	3.2	3.6	5.0	1.9	2.3	2.6	3.0	4.2
400× 700	3.6	4.3	4.9	5.6	7.8	2.7	3.2	3.7	4.2	5.9	2.7	3.2	3.7	4.2	5.9	2.2	2.7	3.1	3.5	4.9
400× 800	4.1	4.9	5.6	6.4	9.0	3.1	3.6	4.2	4.8	6.7	3.1	3.6	4.2	4.8	6.7	2.6	3.0	3.5	4.0	5.6
400× 900	4.6	5.5	6.3	7.2	10.1	3.5	4.1	4.8	5.4	7.6	3.5	4.1	4.8	5.4	7.6	2.9	3.4	4.0	4.5	6.3
400×1000	5.1	6.1	7.0	8.0	11.2	3.8	4.6	5.3	6.0	8.4	3.8	4.6	5.3	6.0	8.4	3.2	3.8	4.4	5.0	7.0
400×1100	5.6	6.7	7.7	8.8	12.3	4.2	5.0	5.8	6.6	9.2	4.2	5.0	5.8	6.6	9.2	3.5	4.2	4.8	5.5	7.7
400×1200	6.1	7.3	8.4	9.6	13.4	4.6	5.5	6.3	7.2	10.1	4.6	5.5	6.3	7.2	10.1	3.8	4.6	5.3	6.0	8.4
500× 600	3.8	4.6	5.3	6.0	8.4	2.9	3.4	4.0	4.5	6.3	2.9	3.4	4.0	4.5	6.3	2.4	2.9	3.3	3.8	5.3
500× 700	4.5	5.3	6.2	7.0	9.8	3.4	4.0	4.6	5.3	7.4	3.4	4.0	4.6	5.3	7.4	2.8	3.3	3.9	4.4	6.1
500× 800	5.1	6.1	7.0	8.0	11.2	3.8	4.6	5.3	6.0	8.4	3.8	4.6	5.3	6.0	8.4	3.2	3.8	4.4	5.0	7.0
500× 900	5.8	6.8	7.9	9.0	12.6	4.3	5.1	5.9	6.8	9.5	4.3	5.1	5.9	6.8	9.5	3.6	4.3	5.0	5.6	7.9
500×1000	6.4	7.6	8.8	10.0	14.0	4.8	5.7	6.6	7.5	10.5	4.8	5.7	6.6	7.5	10.5	4.0	4.8	5.5	6.3	8.8
500×1100	7.0	8.4	9.7	11.0	15.4	5.3	6.3	7.3	8.3	11.6	5.3	6.3	7.3	8.3	11.6	4.4	5.2	6.1	6.9	9.6
500×1200	7.7	9.1	10.6	12.0	16.8	5.8	6.8	7.9	9.0	12.6	5.8	6.8	7.9	9.0	12.6	4.8	5.7	6.6	7.5	10.5
500×1300	8.3	9.9	11.4	13.0	18.2	6.2	7.4	8.6	9.8	13.7	6.2	7.4	8.6	9.8	13.7	5.2	6.2	7.2	8.1	11.4
500×1400	9.0	10.6	12.3	14.0	19.6	6.7	8.0	9.2	10.5	14.7	6.7	8.0	9.2	10.5	14.7	5.6	6.7	7.7	8.8	12.3
500×1500	9.6	11.4	13.2	15.0	21.0	7.2	8.6	9.9	11.3	15.8	6.0	7.1	8.3	9.4	13.1	7.2	8.6	9.9	11.3	15.8
500×1600	10.2	12.2	14.1	16.0	22.4	7.7	9.1	10.6	12.0	16.8	7.7	9.1	10.6	12.0	16.8	6.4	7.6	8.8	10.0	14.0
500×1700	10.9	12.9	15.0	17.0	23.8	8.2	9.7	11.2	12.8	17.9	8.2	9.7	11.2	12.8	17.9	6.8	8.1	9.4	10.6	14.9
500×1800	11.5	13.7	15.8	18.0	25.2	8.6	10.3	11.9	13.5	18.9	8.6	10.3	11.9	13.5	18.9	7.2	8.6	9.9	11.3	15.8

Glass Door Weight Table

■Door Weight (kg)

Glass Door Thickness mm	4 (Density 2.5)							5 (Density 2.5)							6 (Density 2.5)						
Door Width mm / Door Height mm	300	400	500	600	700	800	900	300	400	500	600	700	800	900	300	400	500	600	700	800	900
300	0.9	1.2	1.5	1.8	2.1	2.4	2.7	1.1	1.5	1.9	2.3	2.6	3.0	3.4	1.4	1.8	2.3	2.7	3.2	3.6	4.1
350	1.1	1.4	1.8	2.1	2.5	2.8	3.2	1.3	1.8	2.2	2.6	3.1	3.5	3.9	1.6	2.1	2.6	3.2	3.7	4.2	4.7
400	1.2	1.6	2.0	2.4	2.8	3.2	3.6	1.5	2.0	2.5	3.0	3.5	4.0	4.5	1.8	2.4	3.0	3.6	4.2	4.8	5.4
450	1.4	1.8	2.3	2.7	3.2	3.6	4.1	1.7	2.3	2.8	3.4	3.9	4.5	5.1	2.0	2.7	3.4	4.1	4.7	5.4	6.1
500	1.5	2.0	2.5	3.0	3.5	4.0	4.5	1.9	2.5	3.1	3.8	4.4	5.0	5.6	2.3	3.0	3.8	4.5	5.3	6.0	6.8
550	1.7	2.2	2.8	3.3	3.9	4.4	5.0	2.1	2.8	3.4	4.1	4.8	5.5	6.2	2.5	3.3	4.1	5.0	5.8	6.6	7.4
600	1.8	2.4	3.0	3.6	4.2	4.8	5.4	2.3	3.0	3.8	4.5	5.3	6.0	6.8	2.7	3.6	4.5	5.4	6.3	7.2	8.1
650	2.0	2.6	3.3	3.9	4.6	5.2	5.9	2.4	3.3	4.1	4.9	5.7	6.5	7.3	2.9	3.9	4.9	5.9	6.8	7.8	8.8
700	2.1	2.8	3.5	4.2	4.9	5.6	6.3	2.6	3.5	4.4	5.3	6.1	7.0	7.9	3.2	4.2	5.3	6.3	7.4	8.4	9.5
750	2.3	3.0	3.8	4.5	5.3	6.0	6.8	2.8	3.8	4.7	5.6	6.6	7.5	8.4	3.4	4.5	5.6	6.8	7.9	9.0	10.1
800	2.4	3.2	4.0	4.8	5.6	6.4	7.2	3.0	4.0	5.0	6.0	7.0	8.0	9.0	3.6	4.8	6.0	7.2	8.4	9.6	10.8
850	2.6	3.4	4.3	5.1	6.0	6.8	7.7	3.2	4.3	5.3	6.4	7.4	8.5	9.6	3.8	5.1	6.4	7.7	8.9	10.2	11.5
900	2.7	3.6	4.5	5.4	6.3	7.2	8.1	3.4	4.5	5.6	6.8	7.9	9.0	10.1	4.1	5.4	6.8	8.1	9.5	10.8	12.2
950	2.9	3.8	4.8	5.7	6.7	7.6	8.6	3.6	4.8	5.9	7.1	8.3	9.5	10.7	4.3	5.7	7.1	8.6	10.0	11.4	12.8
1000	3.0	4.0	5.0	6.0	7.0	8.0	9.0	3.8	5.0	6.3	7.5	8.8	10.0	11.3	4.5	6.0	7.5	9.0	10.5	12.0	13.5
1050	3.2	4.2	5.3	6.3	7.4	8.4	9.5	3.9	5.3	6.6	7.9	9.2	10.5	11.8	4.7	6.3	7.9	9.5	11.0	12.6	14.2
1100	3.3	4.4	5.5	6.6	7.7	8.8	9.9	4.1	5.5	6.9	8.3	9.6	11.0	12.4	5.0	6.6	8.3	9.9	11.6	13.2	14.9
1150	3.5	4.6	5.8	6.9	8.1	9.2	10.4	4.3	5.8	7.2	8.6	10.1	11.5	12.9	5.2	6.9	8.6	10.4	12.1	13.8	15.5

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