

LAMP®

HANDLES, PULLS & KNOBS

Handles, pulls & knobs are a kind of hardware used as handgrip when opening/closing doors or lids.

In recent years, for handles which affect the appearance of the device, high requirements are imposed in terms of not only functionality and operability, but also appearance design.

Sugatsune has developed a wide range of products, such as those with delicate appearance and those made of SUS316, carbon fibre, titanium and PVC, suitable for various applications and environments.

[Handle Type]

Large Handles P.462

Handles (Back Screw Mount) ... P.479

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Latch Handles P.531

[Search by Series]

Design Handle Series

P.460~

LARGE
HANDLESHANDLES
(FRONT
SCREW
MOUNT)HANDLES
(BACK
SCREW
MOUNT)RECESSED
PULLSPULLS
&
KNOBSLATCH
HANDLESHandle (Front / Back Screw Mount)
ZL-2001Recessed Pull
XLA-HHALatch Handle
MDHLLarge Handle
MDH

MTH



SSH



SOR



TBH



SBH



MSH



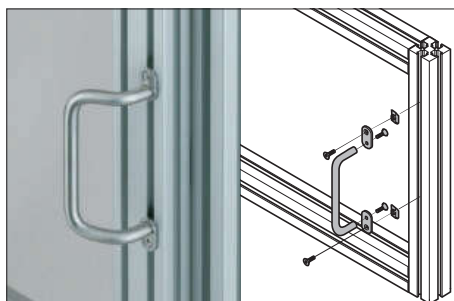
AGH-L/AGH-T



Aluminium Frame Support System AS Series P.483~488



Innovative system for installing various functional parts to aluminium frame by post-installation. Besides, parts for connecting aluminium frame also available.



Handle H-42-C



Bracket AS-H30



SEMI Standard-Compliant Series

P.472~

MG



MH-P



HH-P



HH



HH-KL160



HH-KP150



MJH



MG



HH-UD



[Search by Type]

Large Handles

P.462~

	DESIGN DOOR HANDLE MDH P.462		EXTRUDED ALUMINIUM HANDLE ALH P.469
	ALUMINIUM PIPE HANDLE MTH P.463		ALUMINIUM DOOR HANDLE SYH P.469
	ALUMINIUM PIPE HANDLE APH P.463		ALUMINIUM DOOR HANDLE SOR P.470
	MACHINERY HANDLE TBH P.464		ALUMINIUM DOOR HANDLE EP-330 P.470
	MACHINERY HANDLE SBH P.465		STAINLESS STEEL DOOR HANDLE SSH P.471
	MACHINERY HANDLE MSH P.466		STAINLESS STEEL DOOR HANDLE RH-760 P.471
	ALUMINIUM GRIP HANDLE AGH-L/AGH-T P.467		STAINLESS STEEL DOOR HANDLE MP P.472
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Handles (Front Screw Mount)

P.472~

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	STAINLESS STEEL HANDLE FT-R P.473		STAINLESS STEEL HANDLE FT P.476
	STAINLESS STEEL HANDLE FT-T P.473		STAINLESS STEEL HANDLE FT-100-6.4 P.477
	STAINLESS STEEL HANDLE FT-S280 P.474		STAINLESS STEEL HANDLE FT-110S P.477
	STAINLESS STEEL HANDLE FT P.474		STAINLESS STEEL HANDLE US P.477
	HANDLE (STAINLESS, TITANIUM) 2LC P.474		HANDLE KMH P.478
	STAINLESS STEEL HANDLE 4LC P.475		HANDLE MJH P.479
	STAINLESS STEEL HANDLE 3LC P.475		HANDLE CJH P.480
	STAINLESS STEEL HANDLE EC-Y P.475		HANDLE SJH P.481
	STAINLESS STEEL HANDLE EC-H P.476		HANDLE MH-P P.482

Handles (Back Screw Mount)

P.479~

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	HANDLE CJH P.480		STAINLESS STEEL HANDLE HGH P.490
	HANDLE SJH P.481		STAINLESS STEEL HANDLE ZL-2001 P.491
	WIRE PULL SWP P.482		STAINLESS STEEL HANDLE ZL-2002 P.491
	WIRE PULL SWF P.482		BRACKET FOR STAINLESS STEEL HANDLE ZL-2301 P.492
	STAINLESS STEEL HANDLE H-42-C P.483		STAINLESS STEEL HANDLE XL-JS P.492
	STAINLESS STEEL HANDLE H-42-F14 P.484		STAINLESS STEEL HANDLE XL-JSR P.492
	STAINLESS STEEL HANDLE MG P.484		STAINLESS STEEL HANDLE KC-S P.493
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	STAINLESS STEEL HANDLE H-75-BL-100 P.484		STAINLESS STEEL HANDLE EK-S P.493
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	STAINLESS STEEL HANDLE I163 P.498		STAINLESS STEEL HANDLE DS-SUS304 P.502
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	STAINLESS STEEL HANDLE FB P.499		HANDLE SAZ-122 P.503
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	STAINLESS STEEL HANDLE EC P.500		HANDLE 937-102SCR P.504
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P.505~

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	RECESSED PULL HH-AS2-TI P.513		STAINLESS STEEL RING PULL 980641, 980642 P.520
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Pulls & Knobs

P.523~

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Latch Handles

P.531~

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	FLUSH SLAM LATCH LJ-61 P.531	—
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	SNAP LOCK SX-48 P.533	0.8~2.3
	PULL ATL-64 P.533	0.8~2.3
	PANEL LATCH LC-PK32, LC-PL32 P.534	1.2, 1.5, 1.6
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LARGE HANDLES

HANDLES (FRONT SCREW MOUNT)

HANDLES (BACK SCREW MOUNT)

RECESSED PULLS

PULLS & KNOBS

LATCH HANDLES

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	KB-30M			
	KB-30S			
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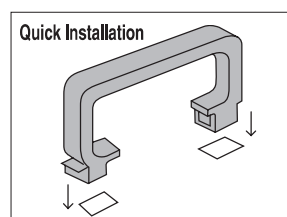
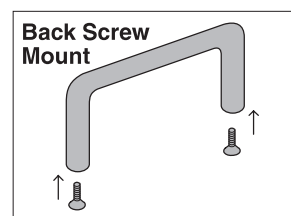
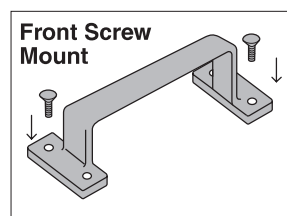
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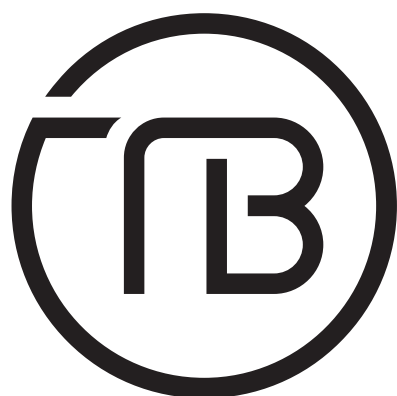
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	EK-R660/S					
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	EC-180S				
175	FT-200	Plastic	Front Screw Mount	📖 P.474	
	SGH-200		Back Screw Mount	📖 P.490	
176	FT-T-220	Stainless Steel	Front Screw Mount	📖 P.473	
188	H-42-C-5		Back Screw Mount	📖 P.483	
	H-42-B-5			📖 P.487	
	AKH-200	Zinc Alloy		📖 P.504	
190	MG-190	Stainless Steel	Front Screw Mount	📖 P.472	
192	MDH-PC192	Plastic	Back Screw Mount	📖 P.462	
	MDH-PS192	Stainless Steel		📖 P.470	
	SOR-200BL	Aluminium			
	SOR-200S				
	ZL-2001-192	Stainless Steel		📖 P.491	
	ZL-2002-192			📖 P.494	
	H-29-192-SM				
	H-29-192-SS				
	H-35-192-SM			📖 P.495	
	H-35-192-SS				
	8262				
	I333192			📖 P.496	
	DIH-192				
	I1014192				
	I1020192			📖 P.497	
	40192				
	DSI-110-192			📖 P.498	
	I100192				
	3099				
	DSI-120-192			📖 P.504	
	I163192				
	KPH-192			📖 P.474	
196	FT-S280	Front Screw Mount	📖 P.474		
200	AGH-L200BL	Aluminium	Back Screw Mount	📖 P.467	
	AGH-L200SL			📖 P.490	
	HGH-200SM	📖 P.500			
	ECH-200M	Stainless Steel		📖 P.499	
212	XL-CU220TT			📖 P.500	
	EC-220M				
	EC-220S				
224	SYH-224SL-M4	Aluminium		Back Screw Mount	📖 P.469
	SYH-224SL-M5				📖 P.495
	8263	📖 P.500			
	KPH-224	Stainless Steel	📖 P.482		
228.5	SWF-690		📖 P.472		
230	MG-230T		📖 P.483		
238	H-42-C-6	Back Screw Mount	📖 P.487		
	H-42-B-6		📖 P.472		
250	MG-250		Front Screw Mount		📖 P.500
	ECH-250M	Back Screw Mount			

Pitch	Item Name	Material	Installation	Page	
253	FT-280	Stainless Steel	Front Screw Mount	P.474	
254	XL-JS260TT		Back Screw Mount	P.492	
256	ZL-2001-256			P.491	
	ZL-2002-256			P.500	
	KPH-256			P.483	
288	H-42-C-7			P.487	
	H-42-B-7			P.494	
	H-35-288-SM			P.500	
	H-35-288-SS			P.495	
	KPH-288			P.499	
292	I333292		P.499		
	XL-CU300TT				
300	APH-P300	Aluminium	Front Screw Mount	P.463	
	MTH-L300		Back Screw Mount		
	MTH-T300				
	AGH-F300BL				
	AGH-F300SL				P.468
	MG-300T	Stainless Steel	Front Screw Mount	P.472	
	AM-310S	Aluminium		P.489	
	ECH-300M	Stainless Steel		P.500	
305	SWF-6120		P.482		
310	SBH-400BL	Aluminium	Back Screw Mount	P.465	
	SBH-400SL				
316	SSH-2540	Stainless Steel		P.471	
	SSH-3240				
320	ZL-2002-320				P.491
	8264				P.495
	I333320				P.496
	I1020320				P.497
	DSI-110-320				P.498
	I100320				P.504
	DSI-120-320				
	I163320				
330	EP-330	Aluminium	P.470		
335	SOR-400BL				
	SOR-400S				
342	I333342	Stainless Steel	P.495		
	DIH-342		P.496		
	I1014342				
350	MDH-PC350	Plastic	Back Screw Mount	P.462	
	MDH-PS350	Stainless Steel		P.466	
	MSH-350BL	Aluminium		P.467	
	MSH-350SL				
	AGH-L350BL				
	AGH-L350SL				
	AGH-T350BL				
AGH-T350SL					
352	XL-US360TT	Stainless Steel	P.492		
400	APH-P400	Aluminium	Front Screw Mount	P.463	
	AGH-F400BL		Back Screw Mount	P.468	
	AGH-F400SL			P.491	
416	ZL-2002-416	Stainless Steel	Back Screw Mount	P.463	
450	MTH-L450	Aluminium	Back Screw Mount	P.472	
	MTH-T450				
464	MP-500	Stainless Steel	Front Screw Mount	P.504	
480	AOT35-500	Aluminium	Back Screw Mount	P.496	
492	DIH-492	Stainless Steel		P.496	
	I1014492				
	I1020492				

Pitch	Item Name	Material	Installation	Page
500	MDH-PC500	Plastic	Back Screw Mount	P.462
	MDH-PS500	Stainless Steel		P.463
	APH-P500	Aluminium	Front Screw Mount	P.463
	AGH-L500BL		Back Screw Mount	P.467
	AGH-L500SL			P.465
	AGH-T500BL			P.491
	AGH-T500SL			P.497
	SBH-600BL			P.498
	SBH-600SL			P.471
	ZL-2002-512	Stainless Steel	Back Screw Mount	P.470
510	DSI-110-512			P.472
	I100512			P.472
512	DSI-120-512	Aluminium	Back Screw Mount	P.472
	SSH-2560			P.472
516	SSH-3260	Stainless Steel	Back Screw Mount	P.472
	SOR-600BL			P.472
522	SOR-600S	Aluminium	Back Screw Mount	P.472
	MSH-550BL			P.472
550	MSH-550SL	Stainless Steel	Back Screw Mount	P.472
	DIH-592			P.472
600	APH-P600	Aluminium	Front Screw Mount	P.463
	MTH-L600		Back Screw Mount	P.465
	MTH-T600			P.470
	SBH-800BL			P.472
710	SBH-800SL	Stainless Steel	Back Screw Mount	P.472
	SOR-800BL			P.472
	SOR-800S			P.472
	MP-750			P.472
714	SSH-2580	Aluminium	Back Screw Mount	P.472
	SSH-3280			P.472
716	MSH-750BL	Stainless Steel	Back Screw Mount	P.472
	MSH-750SL			P.472
750	RH-760	Plastic	Back Screw Mount	P.472
	MDH-PC800			P.472
760	MDH-PS800	Stainless Steel	Back Screw Mount	P.472
	MP-1000			P.472
800	SOR-1000BL	Aluminium	Back Screw Mount	P.472
	SOR-1000S			P.472
964	MDH-PC1200	Plastic	Back Screw Mount	P.472
	MDH-PS1200			P.472
975	MDH-PC1200	Stainless Steel	Back Screw Mount	P.472
	MDH-PS1200			P.472
1200	MDH-PC1200	Plastic	Back Screw Mount	P.472
	MDH-PS1200			P.472





Toughness & Beautility HANDLE



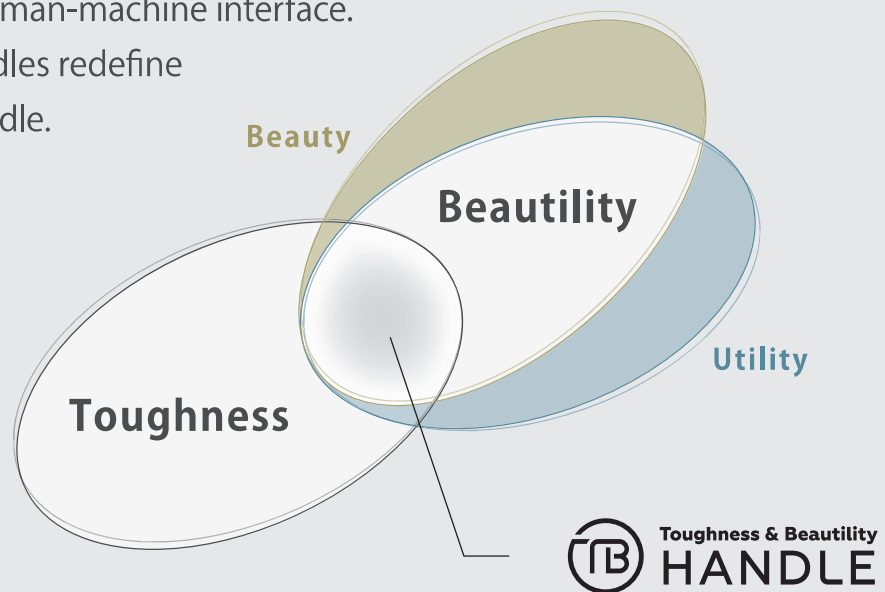
Sugatsune offers a wide range of handles that combine rugged and durable construction "toughness" for a range of operating environments with functional beauty "beautility" that provides optimum ease of use.

Lineup

							
MSH » P.466	TBH » P.464	SBH » P.465	AGH-L AGH-T » P.467	AGH-F » P.468	SOR » P.470	MDH » P.462	MDHL » P.536
							
CJH » P.480	SJH » P.481	KMH » P.478	SYH » P.469	ALH » P.469	HGH » P.490	HH-UD » P.517	

Concept

The "Toughness and Beautility"
range of functional handles from Sugatsune
Handles are the ultimate human-machine interface.
Toughness & Beautility handles redefine
the very concept of the handle.



Toughness

Sugatsune handles are designed and manufactured in accordance with stringent load testing standards and production criteria that are based on client requirements and specifications across a wide range of industries.

Beautility

Sugatsune produces handles that are stylish in their own right while blending in beautifully with any environment, as well as comfortable and easy to use.



DESIGN DOOR HANDLE MDH

INSTRUCTION

SUS



- Brackets and pipes can be combined freely.
- Two types of brackets available: In-line type and offset type.
- Pipes are made of stainless steel or carbon fibre reinforced plastic, either has 5 lengths available. By cutting the pipe, the total length can be changed freely.
- Carbon fibre reinforced plastic pipes are subject to UV-cut treatment to prevent discoloration.
- ※ Features of Carbon fibre reinforced plastic.
It is a light weight, high-strength materials also widely used for aircraft, etc., contributing to the weight reduction of structure.
- Also, the delicate mesh pattern brings a unique texture and high-quality feeling.
- Pipes may be sold separately.
- Latch handle MDHL 1 of the same design used for sliding doors also available.

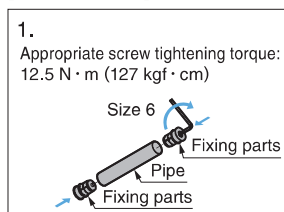
[Applications]

- Machine tools and large doors, etc.

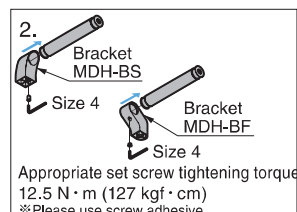
[Remarks]

- Brackets and pipes have separate item numbers. Please order together by indicating each specification.
- Bracket is sold in pairs.

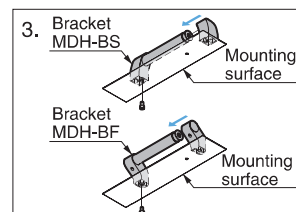
[How to Install]



Insert the fixing parts (attached to the bracket) into both ends of the pipe until their flanges contact the pipe ends, and then tighten the screws with a hex key size 6 (not included).



Insert one bracket into the pipe, and tighten the set screws (attached to the bracket) with a hex key size 4 (not included).



Install one bracket to the mounting surface with M8 screws (not included). Install the other bracket in the same procedure after being preliminarily assembled.

[Bracket]

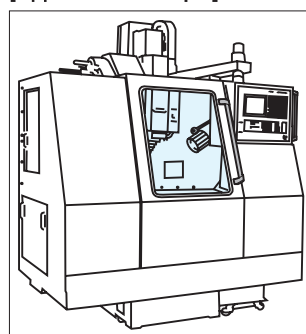
MDH-BS
(Straight type)MDH-BF
(Offset type)

[Fixing Parts]

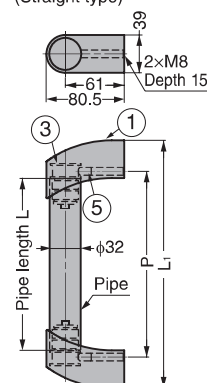
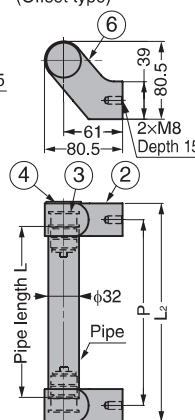
Attached to the bracket



[Application Example]



[Installation of Bracket and Pipe]

Bracket MDH-BS
(Straight type)Bracket MDH-BF
(Offset type)

[Bracket]

RoHS	CAD	Item Code	Item Name	Type	Parts	Weight (g)	Box (sets)	Carton (sets)
		100-022-158	MDH-BS	Straight	①③⑤ (Each 2 pcs)	1010	1	1
		100-022-159	MDH-BF	Offset	②③④⑥ (Each 2 pcs)	1122	1	1

[Bracket]

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

[Pipe]

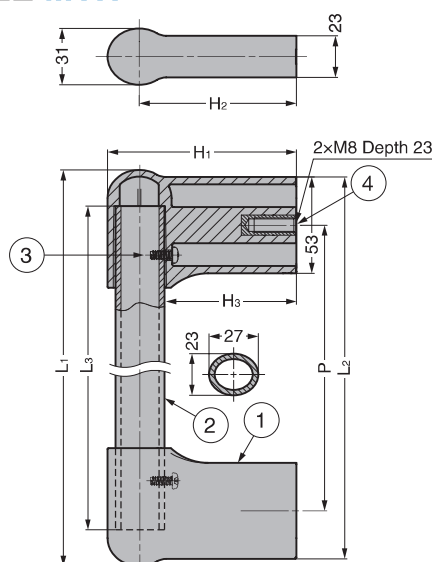
RoHS	CAD	Item Code	Item Name	Material	Finish	Pipe Length L	L ₁	L ₂	P	Pipe Thickness	Load capacity N	Load capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
		100-022-161	MDH-PS192	Stainless Steel (SUS304)	Satin	177	256	226	192	2	490	50	384	1	10
		100-022-162	MDH-PS350			335	414	384	350				727	1	10
		100-022-163	MDH-PS500			485	564	534	500				1050	1	10
		100-022-164	MDH-PS800			785	864	834	800				1700	1	10
		100-022-165	MDH-PS1200	Carbon Fibre Reinforced Polymer (CFRP)	Paint/Clear	1185	1264	1234	1200	2.5	490	50	2570	1	7
		100-022-166	MDH-PC192			177	256	226	192				70	1	1
		100-022-167	MDH-PC350			335	414	384	350				132	1	1
		100-022-168	MDH-PC500			485	564	534	500				191	1	1
		100-022-169	MDH-PC800			785	864	834	800				309	1	1
		100-022-170	MDH-PC1200			1185	1264	1234	1200				467	1	1

Refer to 1 : P.536

ALUMINIUM PIPE HANDLE MTH

LOAD CAPACITY 500 N

TEST METHOD 1



- Position of bracket (MTH-T) is higher than common handles, suitable for inset sliding door of machine tool.
- MTH-L with the same height as common handles for total coordination with handle of machine tool.
- Pipe and bracket are connected with screws, preventing pipe loosening and idling.
- Elliptical pipe shape allows for easy gripping and sliding.

[Applications]

- Machine tools and large doors, etc.

[Remarks]

- For single-sided mount. Cannot be used for double-sided mount.

[Recommended Screws]

- M8 screw

No.	Part Name	Material	Finish / Colour
①	Bracket	Glass Filled Polyamide	Black
②	Pipe	Aluminium Alloy	Anodised Silver
③	Countersunk head tapping screw 5 x 12	Steel	Coloured Zinc Chromate (Trivalent)
④	Nut	Brass	Plain

RoHS	CAD	Item Code	Item Name	L ₁	L ₂	L ₃	P	H ₁	H ₂	H ₃	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
—	3D	100-032-610	MTH-L300	360	352	320	300	74	56.5	43	500	51	360	1	15
—	3D	100-032-611	MTH-L450	510	502	470	450						445	1	15
—	3D	100-032-612	MTH-L600	660	652	620	600						530	1	15
—	3D	100-032-613	MTH-T300	360	352	320	300	104	86.5	73			430	1	15
—	3D	100-032-614	MTH-T450	510	502	470	450						515	1	15
—	3D	100-032-615	MTH-T600	660	652	620	600						600	1	15

ALUMINIUM PIPE HANDLE APH



- Possible to fix with screws from the front.
- 4 lengths of pipes are available. By cutting the pipe, the handle length can be changed freely.
- Other handle sizes are possible at surcharge. For lot quantity and available lengths, please contact local representatives.
- High precision assembly of pipe and bracket.

[Applications]

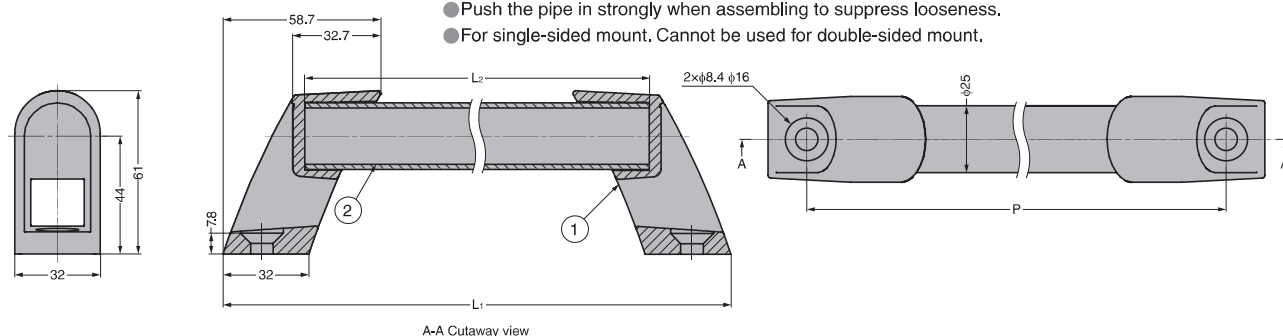
- Machine tools and large doors, etc.

[Remarks]

- Push the pipe in strongly when assembling to suppress looseness.
- For single-sided mount. Cannot be used for double-sided mount.

[Recommended Screws]

- Countersunk head screw M8



[Bracket]

RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
—	3D	100-029-942	APH-B	34	150	600

No.	Part Name	Material	Finish / Colour
①	Bracket	PA	Black
②	Pipe	Aluminium Alloy	Anodised Silver

[Pipe]

RoHS	CAD	Item Code	Item Name	L ₁	L ₂	P	Weight (g)	Box (pcs)	Carton (pcs)
—	3D	100-035-462	APH-P300	328.9	268	300	104.8	—	100
—	3D	100-035-463	APH-P400	428.9	368	400	119.3	—	100
—	3D	100-035-464	APH-P500	528.9	468	500	133.7	—	100
—	3D	100-035-465	APH-P600	628.9	568	600	287.9	—	100

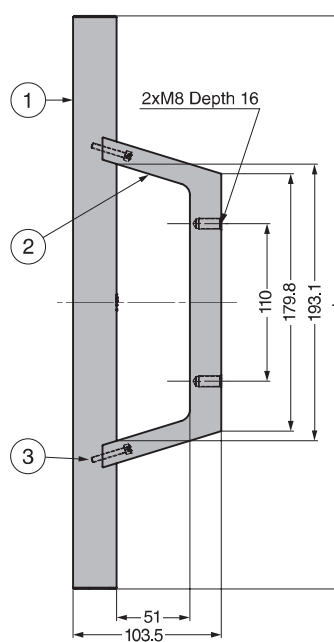
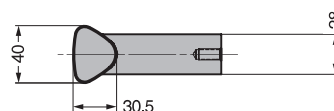
MACHINERY HANDLE TBH Straight Type



- Revolutionary design aesthetic combines purity of form with solidity of feel.
- Consists of a triangle-shaped bar and a bracket in the centre.
- Rich individuality and excellent overall coordination.

[Applications]

- Main doors of machine tools, etc.



No.	Part Name	Material	Finish
①	Bar	Aluminium Alloy	Matte Silver/Anodised (SL) Matte Black/Anodised (BL)
②	Bracket	Zinc Alloy (ZDC)	Paint/Black
③	Hexagon Socket Head Bolt M4x35	Stainless steel	—

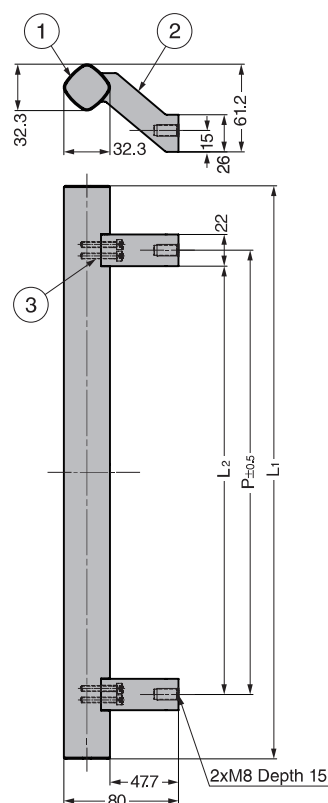
RoHS	CAD	Item Code	Item Name	Bar / Finish	L	Load Capacity N (kgf)	Weight (g)	Box (pcs)	Carton (pcs)
		100-036-948	TBH-400SL	Matte Silver/Anodised	400	—	1877	—	—
		100-036-949	TBH-400BL	Matte Black/Anodised	400		—	—	—
		100-036-950	TBH-600SL	Matte Silver/Anodised	600		2363	—	—
		100-036-951	TBH-600BL	Matte Black/Anodised	600		—	—	—

MACHINERY HANDLE **SBH** Offset Type

- A minimalist yet functional profile.
- Square handle fits perfectly in the hand.
- The unique design creates the impression of a floating handle.

[Applications]

- Main doors of machine tools, etc.



No.	Part Name	Material	Finish
①	Bar	Aluminium Alloy	Matte Silver/Anodised (SL) Matte Black/Anodised (BL)
②	Bracket	Zinc Alloy (ZDC)	Paint/Black
③	Hexagon Socket Head Bolt M4x35	Stainless steel	—

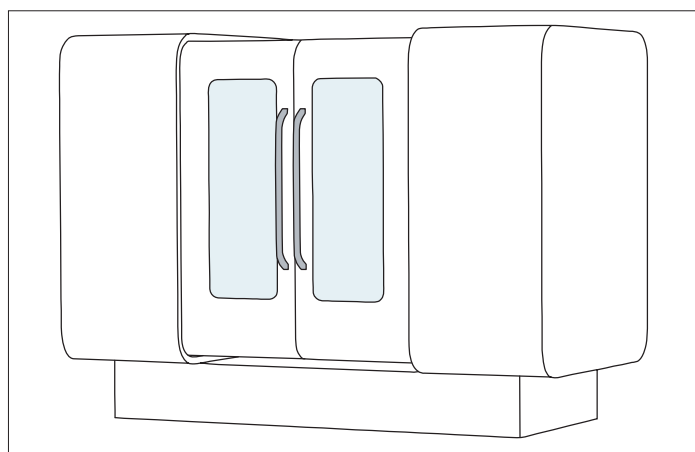
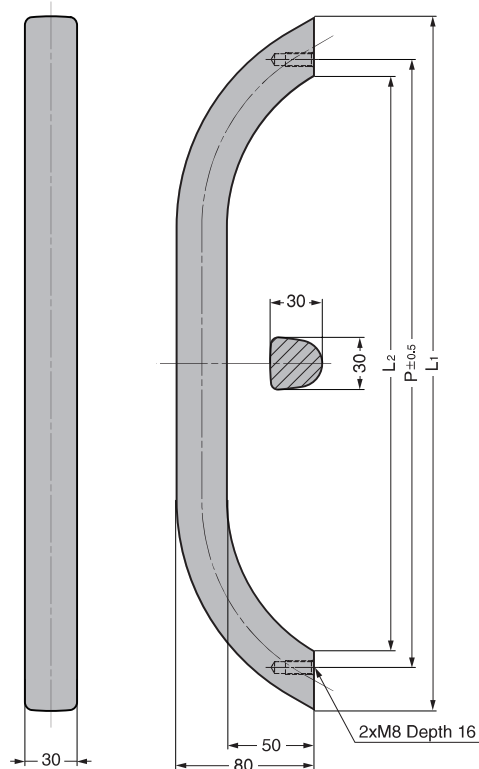
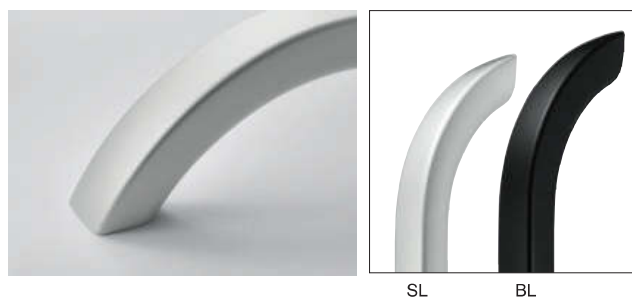
RoHS	CAD	Item Code	Item Name	Finish	L ₁	L ₂	P	Load Capacity N (kgf)	Weight (g)	Box (pcs)	Carton (pcs)
		100-036-952	SBH-400SL	Matte Silver/Anodised	400	288	310	—	1079	—	—
		100-036-953	SBH-400BL	Matte Black/Anodised	400	288	310			—	—
		100-036-954	SBH-600SL	Matte Silver/Anodised	600	488	510			—	—
		100-036-955	SBH-600BL	Matte Black/Anodised	600	488	510			—	—
		100-036-956	SBH-800SL	Matte Silver/Anodised	800	688	710			—	—
		100-036-957	SBH-800BL	Matte Black/Anodised	800	688	710		1833	—	—

MACHINERY HANDLE **MSH** Straight Type

- Flat surface creates a refined impression.
- A beautifully simple design with weight and size that provides a firm and comfortable grip.

[Applications]

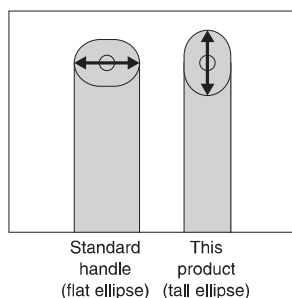
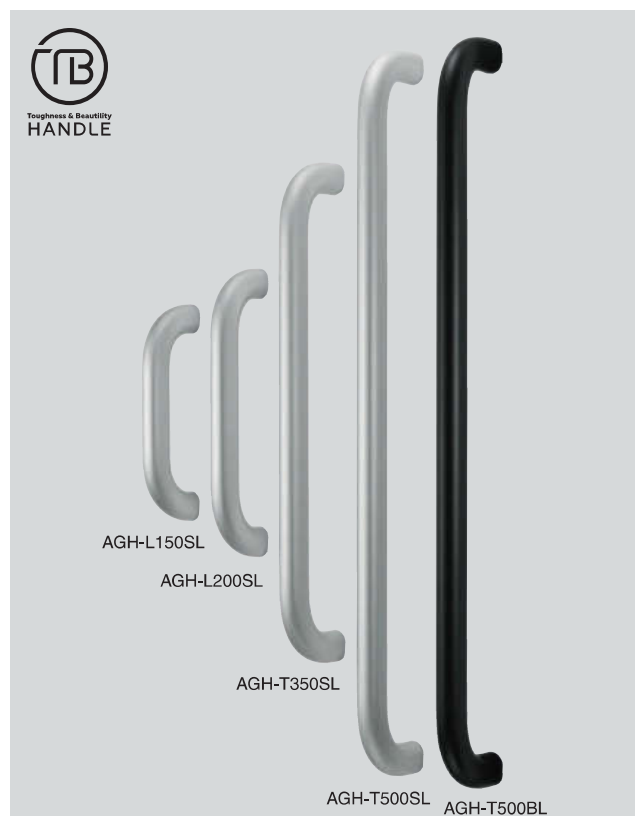
- Main doors of machine tools, etc.



RoHS	CAD	Item Code	Item Name	Material	Finish	L ₁	L ₂	P	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
		100-036-942	MSH-350SL	Aluminium Alloy	Matte Silver/Anodised	400	330.7	350	500	51	850	—	—
		100-036-943	MSH-350BL		Matte Black/Anodised							—	—
		100-036-944	MSH-550SL		Matte Silver/Anodised	600	530.7	550			1256	—	—
		100-036-945	MSH-550BL		Matte Black/Anodised							—	—
		100-036-946	MSH-750SL		Matte Silver/Anodised	800	730.7	750			1663	—	—
		100-036-947	MSH-750BL		Matte Black/Anodised							—	—

ALUMINIUM GRIP HANDLE AGH-L/AGH-T Straight Type

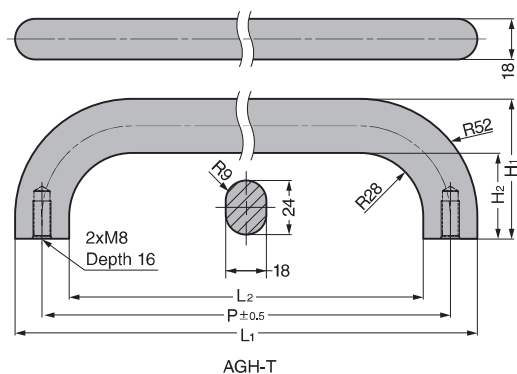
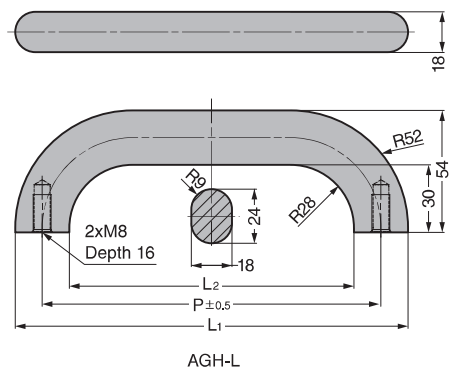
TEST METHOD 1



- Elliptical profile combines minimalist look with maximum grip.
- Choice of heights.

[Applications]

- Handle for operation panel.



RoHS	CAD	Item Code	Item Name	Material	Finish	L ₁	L ₂	P	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
		100-036-962	AGH-L150SL	Aluminium Alloy	Matte Silver/Anodised	174	126	150	350	36	191	—	—
		100-036-963	AGH-L150BL		Matte Black/Anodised							—	—
		100-036-964	AGH-L200SL		Matte Silver/Anodised	224	176	200			240	—	—
		100-036-965	AGH-L200BL		Matte Black/Anodised							—	—
		100-036-966	AGH-L350SL		Matte Silver/Anodised	374	326	350			387	—	—
		100-036-967	AGH-L350BL		Matte Black/Anodised							—	—
		100-036-968	AGH-L500SL		Matte Silver/Anodised	524	476	500			536	—	—
		100-036-969	AGH-L500BL		Matte Black/Anodised							—	—

RoHS	CAD	Item Code	Item Name	Material	Finish	L ₁	L ₂	H ₁	H ₂	P	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
		100-036-958	AGH-T350SL	Aluminium Alloy	Matte Silver/Anodised	374	326	62	38	350	350	36	402	—	—
		100-036-959	AGH-T350BL		Matte Black/Anodised									524	476
		100-036-960	AGH-T500SL		Matte Silver/Anodised	553	—	—							
		100-036-961	AGH-T500BL		Matte Black/Anodised				—	—					

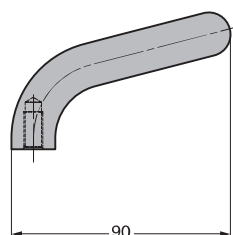
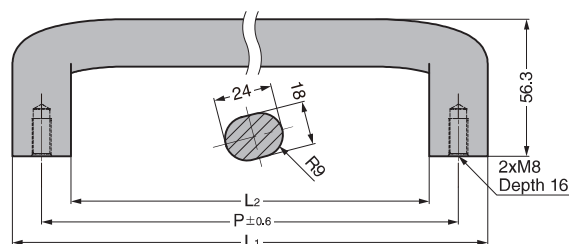
ALUMINIUM GRIP HANDLE AGH-F Offset Type

TEST
METHOD 1

● Handles that are delightful to hold.

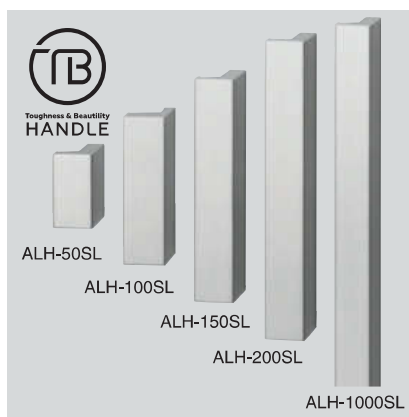
[Applications]

● Handle for operation panel.



RoHS	CAD	Item Code	Item Name	Material	Finish	L ₁	L ₂	P	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
		100-036-970	AGH-F300SL	Aluminium Alloy	Matte Silver/Anodised	324	276	300	500	51	443	-	-
		100-036-971	AGH-F300BL		Matte Black/Anodised	324	276	300				-	-
		100-036-972	AGH-F400SL		Matte Silver/Anodised	424	376	400			540	-	-
		100-036-973	AGH-F400BL		Matte Black/Anodised	424	376	400				-	-

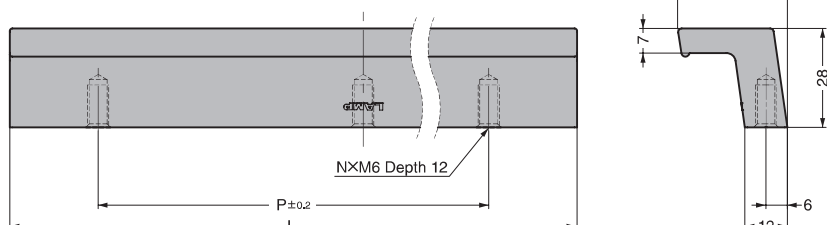
EXTRUDED ALUMINIUM HANDLE ALH



- Stylish in form and function.
- Design innovations include anti-slip bump along the edges and angled surface to prevent dust accumulation.

[Applications]

- Control equipment, measuring equipment, drawers, etc.



RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	N	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)	
		100-037-006	ALH-50SL	Aluminium Alloy	Matte Silver Anodised	50	30	2	500	51	58	—	—	
		100-037-007	ALH-50BL		Matte Black Anodised							—	—	
		100-037-008	ALH-50ST		Satin and Stainless Steel Anodised							—	—	
		100-037-009	ALH-100SL		Matte Silver Anodised	100	60				2	118	—	—
		100-037-010	ALH-100BL		Matte Black Anodised								—	—
		100-037-011	ALH-100ST		Satin and Stainless Steel Anodised								—	—
		100-037-012	ALH-150SL		Matte Silver Anodised	150	100	3			178	—	—	
		100-037-013	ALH-150BL		Matte Black Anodised							—	—	
		100-037-014	ALH-150ST		Satin and Stainless Steel Anodised							—	—	
		100-037-015	ALH-200SL		Matte Silver Anodised	200	75				3	237	—	—
		100-037-016	ALH-200BL		Matte Black Anodised								—	—
		100-037-017	ALH-200ST		Satin and Stainless Steel Anodised								—	—
		100-037-018	ALH-1000SL		Matte Silver Anodised	1000	150	7			1191	—	—	
		100-037-019	ALH-1000BL		Matte Black Anodised							—	—	
		100-037-020	ALH-1000ST		Satin and Stainless Steel Anodised							—	—	

ALUMINIUM DOOR HANDLE SYH

TEST METHOD 1

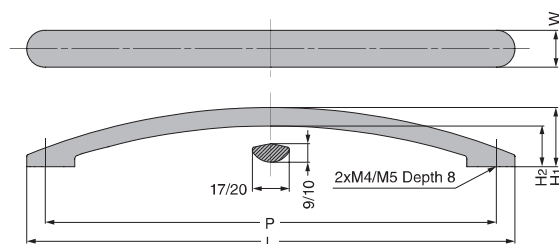
ANTIBACTERIAL



- A flowing handle with a feature line down the centre.
- Aluminium material and streamline shape create a soft impression. Low profile design ensures that the handle will not noticeably protrude.
- With anti-bacterial coating to reduce risk of infection.

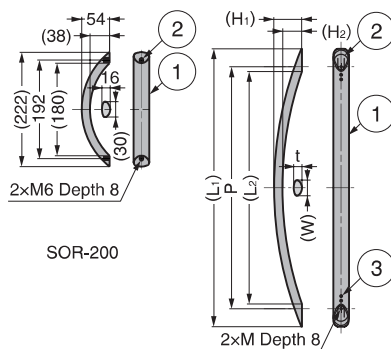
[Applications]

- Medical and analytical equipment, etc.



RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	H ₁	H ₂	W	M	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
CE	3D	100-037-002	SYH-128SL-M4	Aluminium Alloy	Antibacterial Paint/Silver	165	128	30	21	17	M4	500	51	53	—	—
CE	3D	100-037-003	SYH-128SL-M5								M5				—	—
CE	3D	100-037-004	SYH-224SL-M4			264	224	32	22	20	M4			105	—	—
CE	3D	100-037-005	SYH-224SL-M5								M5				—	—

ALUMINIUM DOOR HANDLE SOR



SOR-200

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

- Flowing curves that adapt gracefully to any surface.
- Other handle sizes are possible at surcharge.

[Applications]

- Machine tools and railway vehicles, etc.

[Remarks]

- For single-sided mount. Cannot be used for double-sided mount.

[Recommended Screws]

- M6 screw, M8 screw

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

※SCS13 is equivalent of SUS304.

RoHS	CAD	Item Code	Item Name	Finish	L ₁	L ₂	P	H ₁	H ₂	W	t	M	Load capacity N	Load capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)							
		100-028-297	SOR-200S	Stainless Steel/Anodised	As	As	As	As	As	As	As	As	490	50	228	10	50							
		100-028-298	SOR-200BL	Black/Anodised	Above	Above	Above	Above	Above	Above	Above	Above						10	50					
		100-010-961	SOR-400S	Stainless Steel/Anodised	390	323	335	60	42	34	18	M6					385	30	1					
		100-010-963	SOR-400BL	Black/Anodised																				
		100-010-962	SOR-600S	Stainless Steel/Anodised	600	502	522															495	20	—
		100-010-964	SOR-600BL	Black/Anodised																				
		100-010-960	SOR-800S	Stainless Steel/Anodised	816	686	710					M8					605	15	—					
		100-010-965	SOR-800BL	Black/Anodised																	15	—		
		100-028-299	SOR-1000S	Stainless Steel/Anodised	1090	939.8	975	80	59.8	38	20.2						1647	—	4					
		100-028-300	SOR-1000BL	Black/Anodised																				

ALUMINIUM DOOR HANDLE EP-330

Made to Order

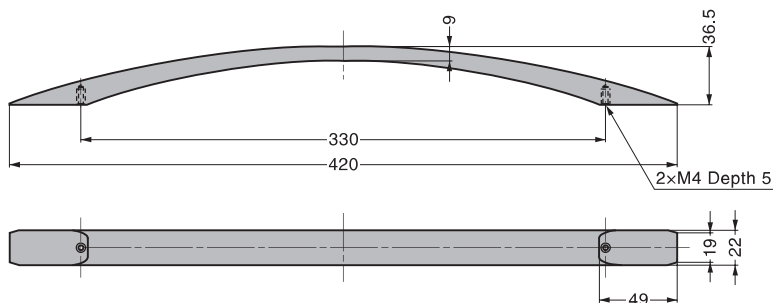


- Designs with smooth flowing curve that blend in perfectly.

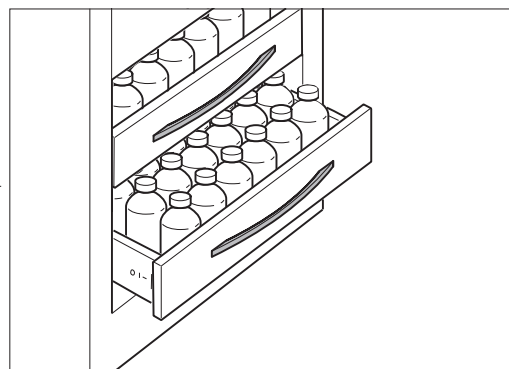
[Recommended Screws]

- M4

[Dimensions]



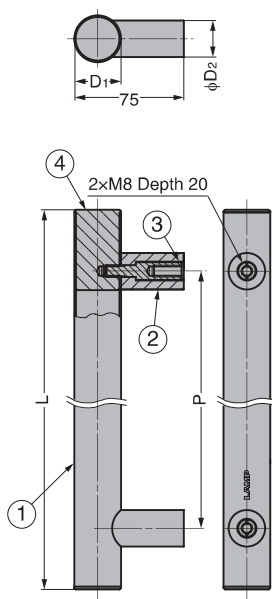
[Application Example]



RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
—	—	—	EP-330	Aluminium Alloy	Grey Enamel Finish	240	—	—

STAINLESS STEEL DOOR HANDLE SSH

SUS



- Stainless steel handle with simple design.
- Other handle sizes are possible at surcharge. For lot quantity and available lengths, please contact local representatives.

[Applications]

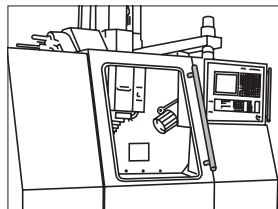
- Machine tools and large doors, etc.

[Remarks]

- For single-sided mount. Cannot be used for double-sided mount.

[Recommended Screws]

- M8 screw

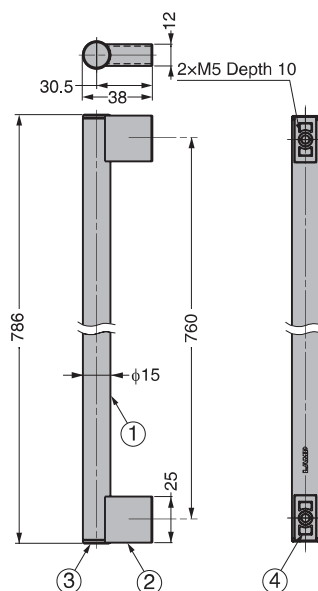
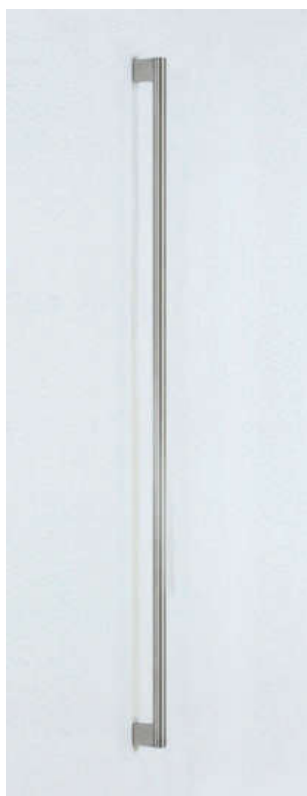
[Application Example]

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

RoHS	CAD	Item Code	Item Name	L	P	D ₁	D ₂	Weight (g)	Box (pcs)	Carton (pcs)
		100-181-413	SSH-2540	400	316	25	19	665	10	—
		100-181-414	SSH-2560	600	516			750	10	—
		100-181-415	SSH-2580	800	716			840	10	—
		100-181-416	SSH-3240	400	316	32	25	1175	5	—
		100-181-417	SSH-3260	600	516			1290	5	—
		100-181-418	SSH-3280	800	716			1400	5	—

STAINLESS STEEL DOOR HANDLE RH-760

SUS



- Stainless steel handle with small projection from mounting surface and simple design.
- Other handle sizes are possible at surcharge. For lot quantity and available lengths, please contact local representatives.

[Applications]

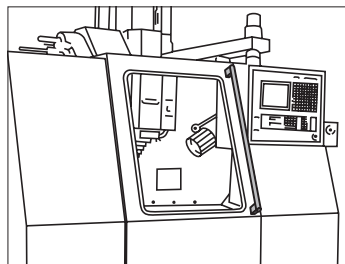
- FA equipment, OA equipment, and specially-equipped vehicles, etc.

[Remarks]

- For single-sided mount. Cannot be used for double-sided mount.

[Recommended Screws]

- M5 screw

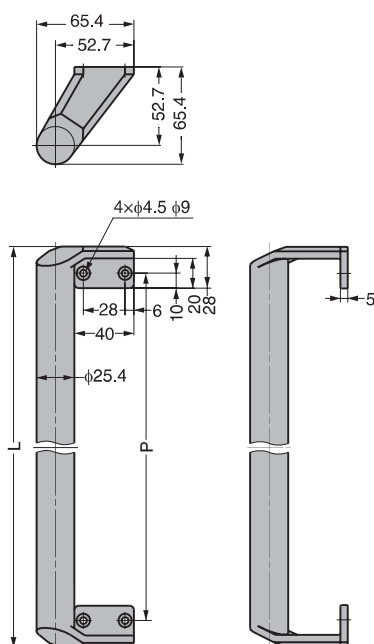
[Application Example]

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

RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
		100-010-341	RH-760	340	—	20

STAINLESS STEEL DOOR HANDLE MP

SUS316



- Simple design and front screw mount.
- Other handle sizes are possible at surcharge. For lot quantity and available lengths, please contact local representatives.

[Applications]

- Railway vehicles, specially-equipped vehicles, ships, large doors, and auxiliary handrails, etc.

[Recommended Screws]

- Countersunk head screw M4
- Countersunk head tapping screw 4
- Countersunk head wood screw 4,1

[Application Example]



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

STAINLESS STEEL HANDLE MG SEMI Compliance

NSF SUS316



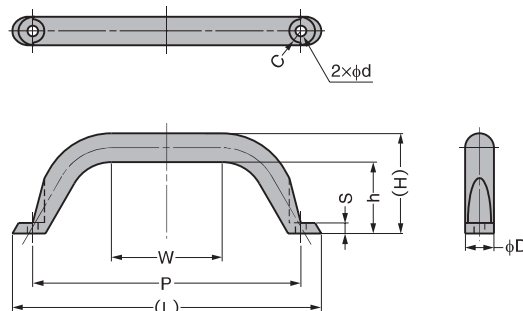
- Compliant with SEMI standard (SEMI S8-0701).
- Passed 1960N (200kgf) load capacity test.
- Larger height and width allows for easy gripping with gloved hand.
- For mounting screws, truss head can be used. (Screws not included)

[Applications]

- Semiconductor manufacturing equipment, special vehicles, large doors, and transport equipment, etc.

[Recommended Screws]

- MG-150: Hexagon socket head cap screw M5
- MG-190, MG-250: Hexagon socket head cap screw M6
- MG-230T, MG-300T: Hexagon socket head cap screw M8



RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P	D	W	h	S	C	d	Weight (g)	Box (pcs)	Carton (pcs)
		100-010-483	MG-150	Stainless Steel (SUS316)	Polished	172.8	56	150	16	62	40	6	R6.5	6	295	10	40
		100-010-484	MG-190			216.7	63	190	18	92	45	8	R7.5	7	460	5	20
		100-010-485	MG-250			275.5	68	250	18	145	50	8	R7.5	7	595	5	20
		100-021-952	MG-230T			260	70	230	20	129	50	10	R9	9	665	5	20
		100-021-953	MG-300T			330	70	300	20	199	50	10	R9	9	820	5	20

STAINLESS STEEL HANDLE FT-R

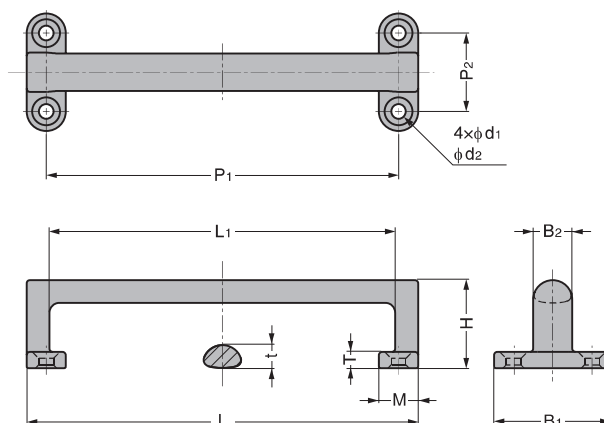
SUS



- A rounded handle for a comfortable grip.
- Wide grip.

[Parts Included]

- FT-R-120: Raised countersunk head tapping screw 4 × 15 (SUS)
- FT-R-160: Raised countersunk head tapping screw 5 × 20 (SUS)



LARGE HANDLES

HANDLES (FRONT SCREW MOUNT)

HANDLES (BACK SCREW MOUNT)

RECESSED PULLS

PULLS & KNOBS

LATCH HANDLES

RoHS	CAD	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	Weight (g)	Box (pcs)	Carton (pcs)
		100-034-130	FT-R-120	Stainless Steel (SCS13)	Polished	120	106	36	12	27	5	7	12	108	24	4.5	8.5	140	—	—
		100-034-131	FT-R-160			160	142	48	16	36	6.5	9	16	144	32	5.5	10.5	285	—	—

※SCS13 is equivalent of SUS304.

STAINLESS STEEL HANDLE FT-T

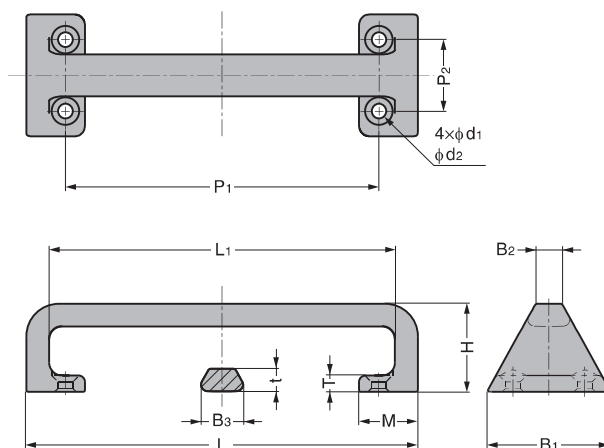
SUS316



- A shape with heavy feeling and rounded inside allows for easy gripping.
- Wide grip.

[Parts Included]

- FT-T-120: Raised countersunk head tapping screw 4 × 15 (SUS)
- FT-T-170: Raised countersunk head tapping screw 5 × 20 (SUS)
- FT-T-220: Raised countersunk head tapping screw 6 × 25 (SUS)

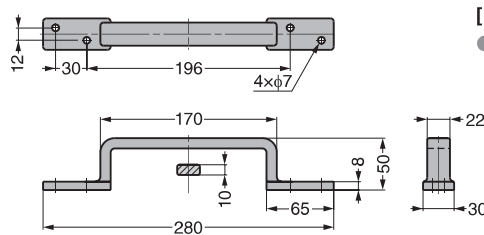


RoHS	CAD	Item Code	Item Name	Material	Finish	L	L ₁	B ₁	B ₂	B ₃	H	T	t	M	P ₁	P ₂	d ₁	d ₂	Weight (g)	Box (pcs)	Carton (pcs)
		100-034-132	FT-T-120	Stainless	Polished	120	105	40	10	15.1	28.5	5.5	7.5	19	96	24	4.5	8.5	225	—	—
		100-034-133	FT-T-170	Steel		170	150	54	12	18.7	38	7	10	25.5	135	32	5.5	10.5	500	—	—
		100-034-134	FT-T-220	(SCS14)		220	200	70	15	24.3	49.5	9	13	—	176	41	6.5	12.5	1000	—	—

※SCS14 is equivalent of SUS316.

STAINLESS STEEL HANDLE FT-S280 Large Type

NSF SUS316



[Parts Included]

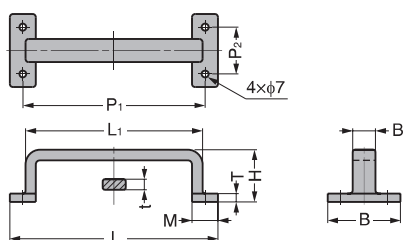
- Binding head tapping screw 6 × 35 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
		100-010-071	FT-S280	Stainless Steel (SCS14)	Polished	612	1	20

※The item will be discontinued after current stock is sold out. ※SCS14 is equivalent of SUS316.

STAINLESS STEEL HANDLE FT Large Type

NSF SUS316



[Parts Included]

- Binding head tapping screw 6 × 35 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	L	L1	B	B1	H	T	t	M	P1	P2	Weight (g)	Box (pcs)	Carton (pcs)
		100-010-069	FT-200	Stainless Steel	Polished	200	170	70	22	50	8	10	25	175	45	586	1	20
		100-010-070	FT-280	(SCS14)		280	250	80	26	62	10	12	27	253	55	1088	1	10

※SCS14 is equivalent of SUS316.

HANDLE (STAINLESS, TITANIUM) 2LC

NSF TITANIUM SUS316



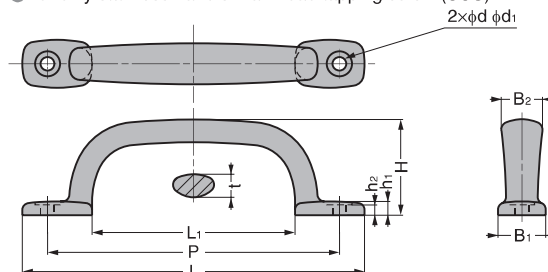
- Easy to grab.
- 2 types of materials available: Light weight and strong titanium with excellent corrosion resistance, and cast steel SCS14 equivalent to stainless steel SUS316.
- Titanium handle hardly causes metal allergy. In addition, since it is non-magnetic, suitable for medical devices such as MRI.

[Remarks]

- Screws are not included for titanium handles. Titanium screws are sold separately.
- Recommended screws given in the table below not included.

[Parts Included]

- For only stainless handle: Pan head tapping screw (SUS)

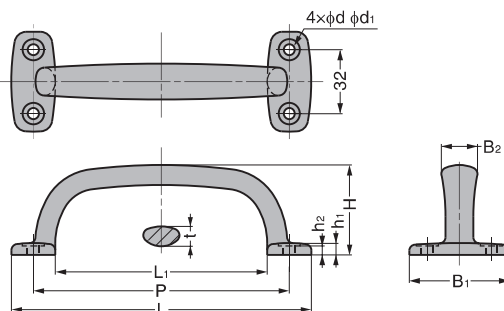


RoHS	CAD	Item Code	Item Name	Material	Finish	L	L1	P	B1	B2	H	h1	h2	t	d	d1	Weight (g)	Screw	Recommended Screw	Box (pcs)	Carton (pcs)
—		100-010-355	2LC-80TI	Titanium	Shot Blast	80	32	64	16	14	35	5.5	4	8	5	9.5	37	—	M4	12	144
—		100-010-354	2LC-120TI			120	64	96	18	16	36	4.5	9	9	5	9.5	62			8	96
—		100-010-353	2LC-150TI			150	89	128	21	18	42	6	10	6	11	9.5	96			6	72
		100-010-131	2LC-80	Stainless Steel (SCS14)	Polished	80	32	64	16	14	35	5.5	4	8	5	9.5	70	4 ×	M4	12	144
		100-010-132	2LC-120			120	64	96	18	16	36	4.5	9	9	5	9.5	106	20		8	96
		100-010-133	2LC-150			150	89	128	21	18	42	6	10	6	11	9.5	172	5 ×	M5	6	72
		100-010-134	2LC-180			180	118	160	23	20	45	6.5	5	10	6	11	225	30		3	36

※SCS14 is equivalent of SUS316.

STAINLESS STEEL HANDLE 4LC

NSF SUS316



- Titanium handle is available as a special order.

[Remarks]

- Recommended screws given in the table below not included.

[Parts Included]

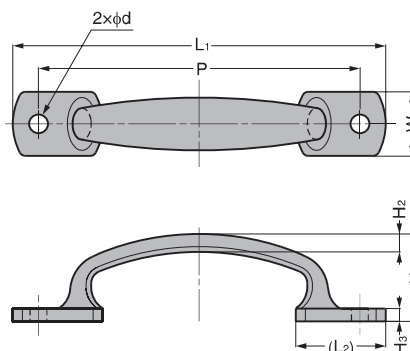
- 4LC-82, 4LC-114: Pan head tapping screw (SUS) 4×20
- 4LC-150, 4LC-180: Pan head tapping screw (SUS) 5×30

RoHS	CAD	Item Code	Item Name	Material	Finish	L	L ₁	P	B ₁	B ₂	H	h ₁	h ₂	t	d	d ₁	Weight (g)	Recommended Screw	Box (pcs)	Carton (pcs)
		100-010-135	4LC-82	Stainless Steel (SCS14)	Polished	82	46	64	48	16	36.5	5.5	4	8	5	9.5	110	M4	8	96
		100-010-136	4LC-114			114	78	96			40	6	4.5		9		148		6	72
		100-010-137	4LC-150			150	106	128	50	18	45			10	6	11	210	M5	3	36
		100-010-138	4LC-180			180	140	160		20	48	6.5	5				270		2	24

※SCS14 is equivalent of SUS316.

STAINLESS STEEL HANDLE 3LC

SUS316



[Applications]

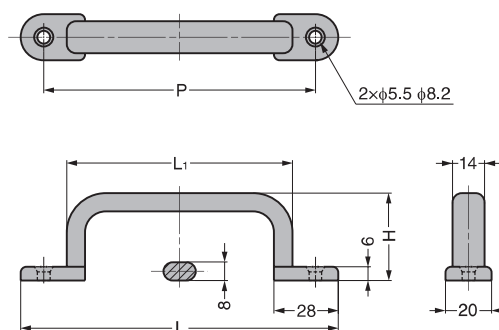
- Indoor and outdoor medium sized doors.

RoHS	CAD	Item Code	Item Name	Material	Finish	L ₁	L ₂	W	H ₁	H ₂	H ₃	P	d	Weight (g)	Box (pcs)	Carton (pcs)
		100-019-846	3LC-120	Stainless Steel (SCS14)	Polished	120	29	20	30	6	5	105	5.5	90	100	—
		100-019-845	3LC-130			130	30	22	33					120	—	—
		100-019-747	3LC-145			145	35	25	34	7	6	125	6.5	155	150	—

※SCS14 is equivalent of SUS316.

STAINLESS STEEL HANDLE EC-Y

SUS



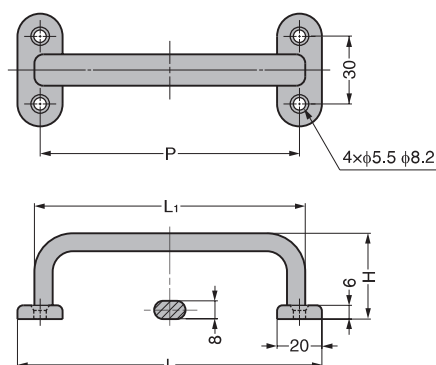
[Parts Included]

- Raised countersunk head tapping screw 4×20 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	L	L ₁	H	P	Weight (g)	Box (pcs)	Carton (pcs)
		100-012-831	EC-Y-140	Stainless Steel (SUS303)	Polished	140	100	38	120	142	5	100
		100-012-832	EC-Y-160			160	120	40	140	160	3	51
		100-012-833	EC-Y-190			190	150	42	170	185	2	50

STAINLESS STEEL HANDLE EC-H

SUS



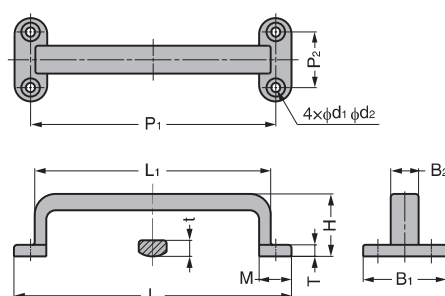
[Parts Included]

- Raised countersunk head tapping screw 4 × 20 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	L	L ₁	H	P	Weight (g)	Box (pcs)	Carton (pcs)
		100-010-056	EC-H-135	Stainless Steel (SUS303)	Polished	135	120	40	115	191	5	50
		100-010-057	EC-H-165			165	150	42	145	216	3	48

STAINLESS STEEL HANDLE FT Double-hole Type

NSF SUS



[Parts Included]

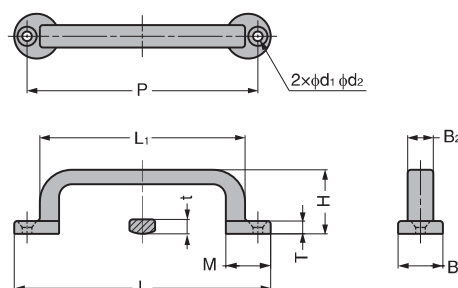
- FT-120: Raised countersunk head wood screw (SUS) 3.8 × 20
- FT-150: Raised countersunk head wood screw (SUS) 5.1 × 25

RoHS	CAD	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	Weight (g)	Box (pcs)	Carton (pcs)
		100-010-067	FT-120	Stainless Steel (SCS13)	Polished	120	102	36	12	27	5	7	14	106	24	4.1	8	105	10	120
		100-010-068	FT-150			150	129	45	15	33	6	8	18	132	30	5.3	10.4	191	5	40

※SCS13 is equivalent of SUS304.

STAINLESS STEEL HANDLE FT Single-hole Type

NSF SUS



[Parts Included]

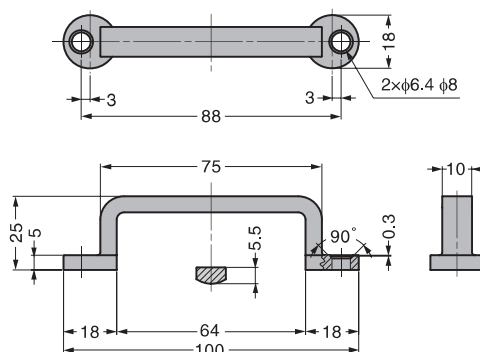
- FT-65, FT-80: Raised countersunk head wood screw (SUS) 3.1 × 16
- FT-100: Raised countersunk head wood screw (SUS) 3.8 × 20

RoHS	CAD	Item Code	Item Name	Material	Finish	L	L ₁	B ₁	B ₂	H	T	t	M	P	d ₁	d ₂	Weight (g)	Box (pcs)	Carton (pcs)
		100-012-847	FT-65	Stainless Steel (SCS13)	Polished	65	47	13	7	16	3.5	4	13	57	3.3	6.4	19	40	480
		100-012-848	FT-80			80	61	14	8	20	4	4.5	14	72			32	30	360
		100-012-849	FT-100			100	75	18	10	25	5	5.5	18	88	4.1	8	58	20	240

※SCS13 is equivalent of SUS304.

STAINLESS STEEL HANDLE FT-100-6.4

SUS



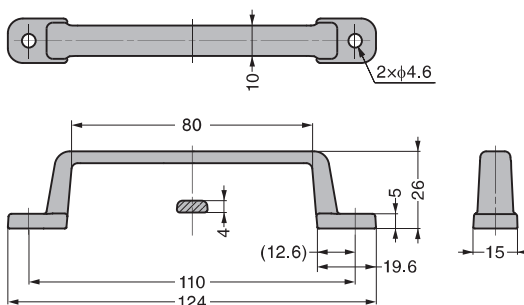
- Wider mounting hole relative to conventional FT handle.

RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
		100-019-167	FT-100-6.4	Stainless Steel (SCS13)	Polished	54	20	200

※SCS13 is equivalent of SUS304.

STAINLESS STEEL HANDLE FT-110S

SUS



[Recommended Screws]

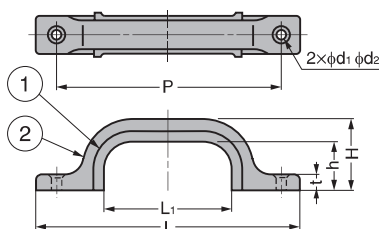
- M4 screw

RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
		100-019-029	FT-110S	Stainless Steel (SCS13)	Satin	60	50	200

※SCS13 is equivalent of SUS304.

STAINLESS STEEL HANDLE US

NSF SUS



- Rubber grip allows for an easy and comfortable grip.
- Stainless steel (SUS304) is used for the surface part of the handle.
- Knob type HS also available.

[Parts Included]

- Raised countersunk head wood screw (SUS)

No.	Part Name	Material	Finish / Colour
①	Pad	Elastomer (TPE)	Black
②	Frame	Stainless Steel (SUS304)	Satin and Polished Combination

RoHS	CAD	Item Code	Item Name	Finish	L	L ₁	P	B	H	h	t	d ₁	d ₂	Weight (g)	Screw	Box (pcs)	Carton (pcs)
		100-012-243	US-70S	Satin	70	20	54	17	28	21	5.5	3.3	6.6	20	3.1 × 16	20	200
		100-012-240	US-70M	Polished							20	200					
		100-012-244	US-120S	Satin	120	57	102	19	32		6.5	3.8	7.6	45	3.5 × 20	20	200
		100-012-241	US-120M	Polished						20	200						
		100-012-245	US-160S	Satin	160	88	140	22	37.5	23	7.5	4.1	8.1	70	4.1 × 25	10	100
		100-012-242	US-160M	Polished												10	100

Refer to : P.524

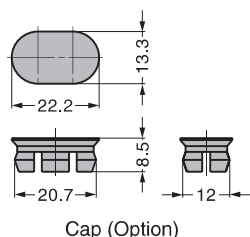
HANDLE **KMH**TEST
METHOD 1

※Caps are sold separately.

[Caps] Option



[Without Cap]



Cap (Option)

- Cap hides screw heads for clean appearance (option). 4 colours available.
- Stylish flat surface.
- Rounded inside allows for easy gripping.
- Caps are tightly fixed to prevent from falling off.
- Possible to customise cap colour from 10,000 pcs.

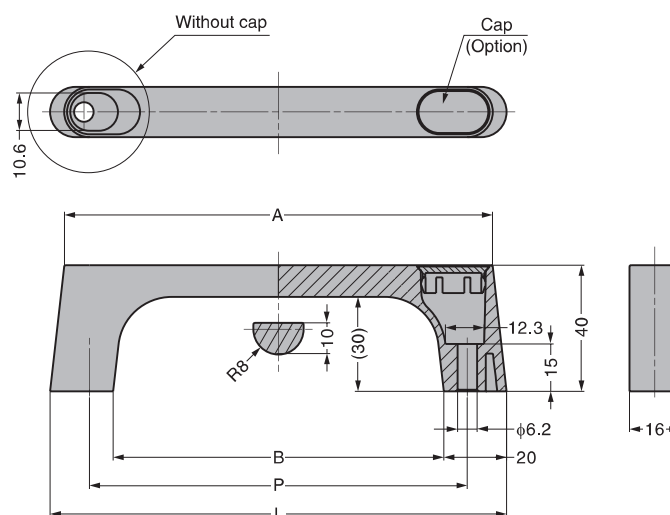
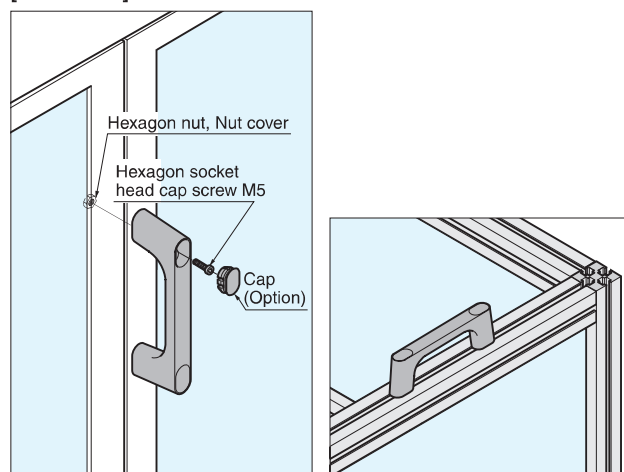
[Remarks]

- Truss head screws can not be used.
- Caps are sold separately. Sold by piece. Please order together with handle.

[Recommended Screws]

- Hexagon socket head cap screw M5 or Pan head screw M5

[Installation]



[Body]

RoHS	CAD	Item Code	Item Name	Material	Finish	L	A	B	P	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
		100-024-063	KMH-100	Zinc Alloy (ZDC)	Satin Chrome	125	116	85	100	500	51	162	10	100
		100-024-064	KMH-120			145	136	105	120			180	10	60
		100-024-065	KMH-150			175	166	135	150			206	10	60

[Caps] Option (Sold by piece)

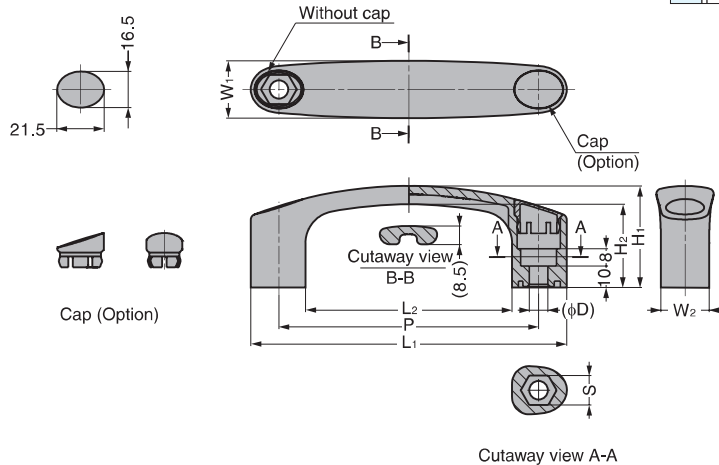
RoHS	CAD	Item Code	Item Name	Material	Colour	Weight (g)	Box (pcs)	Carton (pcs)
	—	100-024-066	KMHC-WT	PBT	White	0.7	100	2000
	—	100-024-067	KMHC-GR		Grey		100	2000
	—	100-024-068	KMHC-BU		Light Blue		100	2000
	—	100-024-924	KMHC-BL		Black		100	2000

HANDLE MJH

TEST
METHOD 1

※Caps are sold separately.

[Caps] Option



- Handle can be installed from both front and back. Cap hides screw heads for clean appearance (option). 3 colours available.
- Rounded inside allows for easy gripping.
- Caps are tightly fixed to prevent from falling off.
- Possible to customise cap colour from 3,000 pcs.
- MJH-150 is compliant with SEMI standard (SEMI S8-0308).

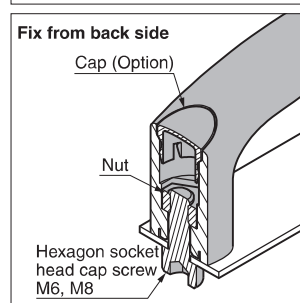
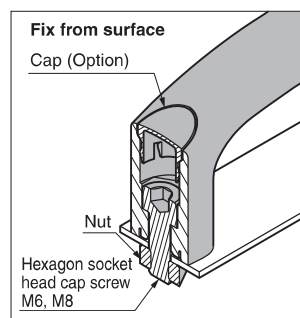
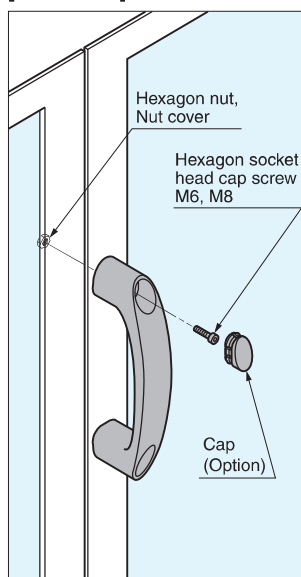
[Remarks]

- Only hexagon socket head cap screws are applicable.
- Caps are sold separately. Sold by piece. Please order together with handle.

[Recommended Screws]

- MJH-93 : Hexagon socket head cap screw M6
- MJH-120, MJH-150 : Hexagon socket head cap screw M8

[Installation]



- Screws are applicable from both inside and outside.

LARGE
HANDLESHANDLES
(FRONT
SCREW
MOUNT)HANDLES
(BACK
SCREW
MOUNT)RECESSED
PULLSPULLS
&
KNOBSLATCH
HANDLES

[Body]

RoHS	CAD	Item Code	Item Name	Material	Colour	P	L ₁	L ₂	D	S	H ₁	H ₂	W ₁	W ₂	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
		100-026-534	MJH-93	Reinforced Nylon	Black	93	119	67	6.5	10.2	42	33.5	25	21.3	450	46	41	100	—
		100-026-535	MJH-120			120	146	94	8.5	13.2	47	38.5	26.5	22.4			48	50	—
		100-026-536	MJH-150			150	176	124	8.5	13.2	52	43.5	28	22.5			58	50	—

[Caps] Option (Sold by piece)

RoHS	CAD	Item Code	Item Name	Material	Colour	Weight (g)	Box (pcs)	Carton (pcs)
		100-026-537	MJHC-BL	Reinforced Nylon	Black	1.4	100	—
		100-026-538	MJHC-GR		Grey		100	—
		100-026-539	MJHC-YE		Yellow		100	—

HANDLE CJH



CJH-117/CJHC-117GR

LARGE HANDLES

HANDLES (FRONT SCREW MOUNT)

HANDLES (BACK SCREW MOUNT)

RECESSED PULLS

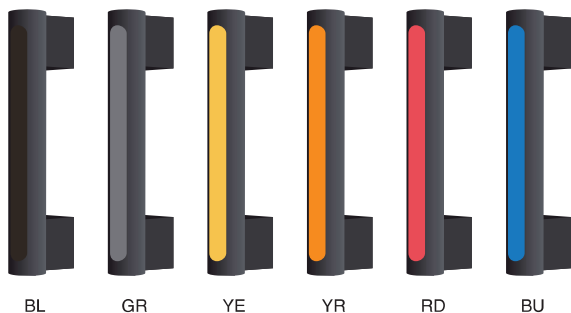
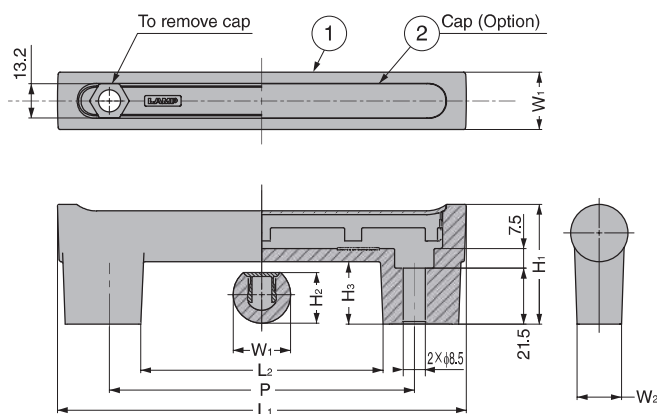
PULLS & KNOBS

LATCH HANDLES

- Long colour cap facilitates intuitive operation.
- The cover colours are used for indicating dangerous regions and different work areas.
- Handle can be fixed from either the front or back with screws.

[Applications]

- Maintenance doors, etc.



BL

GR

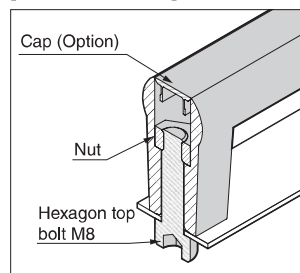
YE

YR

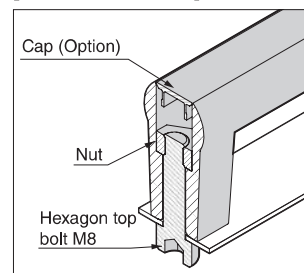
RD

BU

[Fix from surface]



[Fix from back side]



[Body]

RoHS	CAD	Item Code	Item Name	Material	L ₁	L ₂	W ₁	W ₂	H ₁	H ₂	H ₃	P	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
		100-036-974	CJH-117BL	Reinforced nylon	157	93	22	17	46	19.5	24	117	—	—	67	—	—
		100-036-975	CJH-150BL		190	125.5	24	18.5	52	21.4	28	150			91	—	—

No.	Part Name	Material
①	Body	Reinforced nylon
②	Cap	PA

[Cap] Sold Separately

RoHS	CAD	Item Code	Item Name	Material	Colour	Weight (g)	Box (pcs)	Carton (pcs)
		100-036-976	CJHC-117BL	PA	Black	4	—	—
		100-036-977	CJHC-117GR		Grey		—	—
		100-036-978	CJHC-117YE		Yellow		—	—
		100-036-979	CJHC-117YR		Orange		—	—
		100-036-980	CJHC-117RD		Red		—	—
		100-036-981	CJHC-117BU		Blue		—	—
		100-036-982	CJHC-150BL		Black	6	—	—
		100-036-983	CJHC-150GR		Grey		—	—
		100-036-984	CJHC-150YE		Yellow		—	—
		100-036-985	CJHC-150YR		Orange		—	—
		100-036-986	CJHC-150RD		Red		—	—
		100-036-987	CJHC-150BU		Blue		—	—

HANDLE SJH

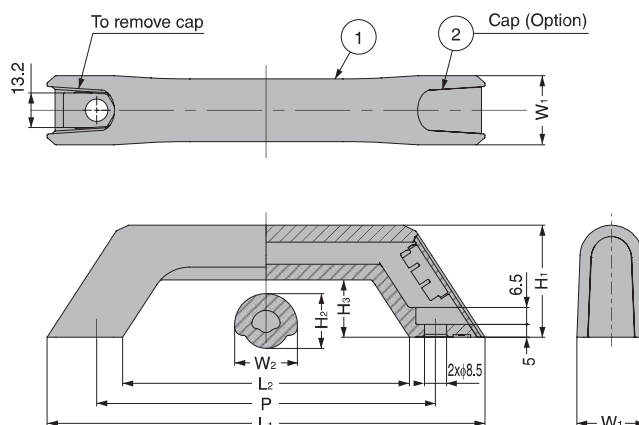


SJH-162/SJHC-162YR

- A rounded handle for a comfortable grip.
- Handle can be fixed from either the front or back with screws.

[Applications]

- Maintenance doors, etc.



LARGE HANDLES

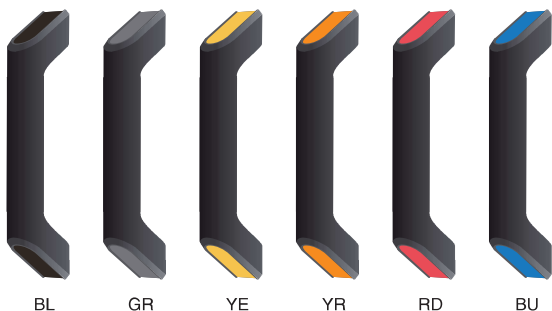
HANDLES (FRONT SCREW MOUNT)

HANDLES (BACK SCREW MOUNT)

RECESSED PULLS

PULLS & KNOBS

LATCH HANDLES



BL

GR

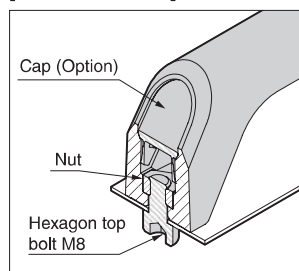
YE

YR

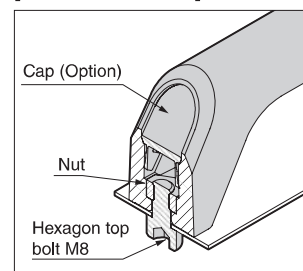
RD

BU

[Fix from surface]



[Fix from back side]



No.	Part Name	Material
①	Body	Reinforced nylon
②	Cap	PA

[Body]

RoHS	CAD	Item Code	Item Name	Material	L ₁	L ₂	W ₁	W ₂	H ₁	H ₂	H ₃	P	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
		100-036-988	SJH-130	Reinforced nylon	168	110	26.5	24	43	21	22	130	—	—	76	—	—
		100-036-989	SJH-160		198	140	28.5	26	49	23	26	160			103	—	—

[Cap] Sold Separately

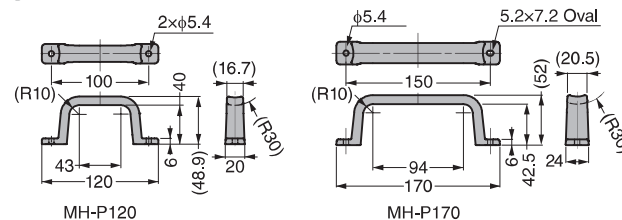
RoHS	CAD	Item Code	Item Name	Material	Colour	Weight (g)	Box (pcs)	Carton (pcs)
		100-036-990	SJHC-130BL	PA	Black	1.5	—	—
		100-036-991	SJHC-130GR		Grey		—	—
		100-036-992	SJHC-130YE		Yellow		—	—
		100-036-993	SJHC-130YR		Orange		—	—
		100-036-994	SJHC-130RD		Red		—	—
		100-036-995	SJHC-130BU		Blue		—	—
		100-036-996	SJHC-160BL		Black	1.9	—	—
		100-036-997	SJHC-160GR		Grey		—	—
		100-036-998	SJHC-160YE		Yellow		—	—
		100-036-999	SJHC-160YR		Orange		—	—
		100-037-000	SJHC-160RD		Red		—	—
		100-037-001	SJHC-160BU		Blue		—	—

HANDLE **MH-P** SEMI Compliance

- Clear body suitable for acrylic, etc.
- Allows for easy gripping with glove on (compliant with SEMI standard, SEMI S8-0308).
- Made from weather-proof, chemical-resistance, lead-free PVC.

[Recommended Screws]

- M5 screw



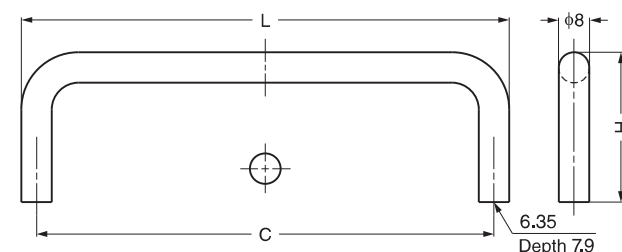
RoHS	CAD	Item Code	Item Name	Material	Colour	Load capacity N	Load capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
✓	3D	100-021-823	MH-P120	PVC	Clear	200	20	34	64	—
✓	3D	100-019-999	MH-P170			262	27	56	48	—

WIRE PULL **SWP**

NSF SUS316



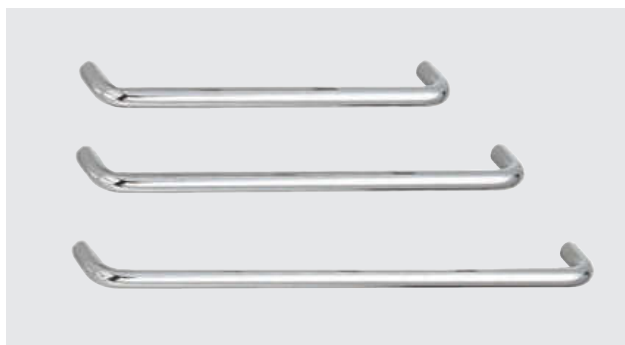
- Ideal for harsh and high corrosion environments.



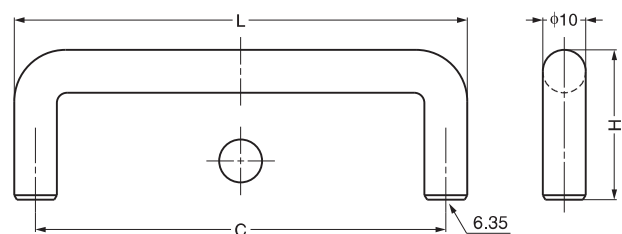
RoHS	CAD	Item Code	Item Name	L	C	H	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
—	—	100-023-434	SWP-630/S	84.2	76.2	34	Stainless Steel (SUS316)	Satin	71	20	200
—	—	100-023-435	SWP-635/S	96.9	88.9	34			78	20	200
—	—	100-023-436	SWP-640/S	109.6	101.6	34			85	20	200
—	—	100-023-437	SWP-696/S	104	96	34			91	20	200

WIRE PULL **SWF**

NSF SUS316



- Ideal for harsh and high corrosion environments.

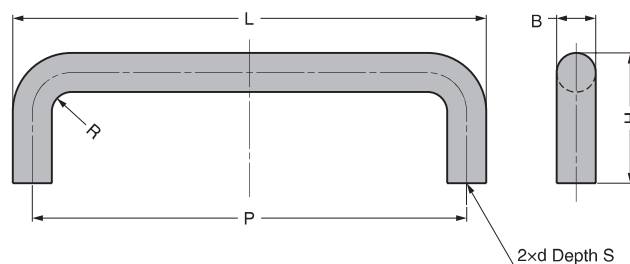


RoHS	CAD	Item Code	Item Name	L	C	H	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
—	—	100-023-438	SWF-640	111	101.5	35	Stainless Steel (SUS316)	Satin	90	20	200
✓	—	100-023-439	SWF-650	136.5	127	35			110	20	200
✓	—	100-023-440	SWF-660	162	152.5	35			130	20	200
—	—	100-023-441	SWF-690	238	228.5	35			200	20	200
✓	—	100-023-442	SWF-6120	314.5	305	35			270	20	200

STAINLESS STEEL HANDLE H-42-C



- Optional bracket H-42-Z **1** is available.
- AS parts set for installing to aluminium frame also available. Content of the parts set is as follows.
- Titanium handles **2** of the same size as H-42-C-2, H-42-C-4 and H-42-C-15 also available. (L and B dimensions are slightly different from H-42-C-2)



LARGE HANDLES

HANDLES (FRONT SCREW MOUNT)

HANDLES (BACK SCREW MOUNT)

RECESSED PULLS

PULLS & KNOBS

LATCH HANDLES

[Handle]

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

Refer to **1** : P.488, **2** : P.487

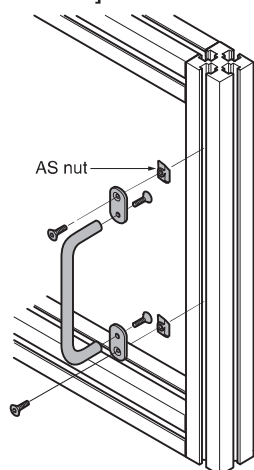
Parts Set for Installing to Aluminium Frame

Please refer to the series introduction page **1** for details about AS series.

[AS Parts Set] Parts set of brackets, screws and AS nuts used for installing to aluminium frame.

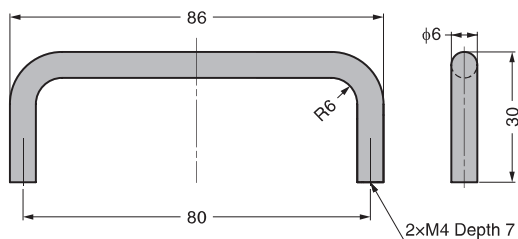
RoHS	CAD	Item Code	Item Name	Aluminium Frame	Parts	Weight (g)
		100-041-484	AS-H-42-C-1-8	Groove Width 8 mm	Handle H-42-C-1 : 1pc Bracket for Handle AS-H30 : 2pcs AS Nut AS-8M5 : 2pcs M5 x 10 Hexagon Socket Countersunk Head Screw : 4pcs	—
		100-041-485	AS-H-42-C-1-10	Groove Width 10 mm	Handle H-42-C-1 : 1pc Bracket for Handle AS-H30 : 2pcs AS Nut AS-10M5 : 2pcs M5 x 10 Hexagon Socket Countersunk Head Screw : 2pcs M5 x 12 Hexagon Socket Countersunk Head Screw : 2pcs	—
		100-041-486	AS-H-42-C-2-8	Groove Width 8 mm	Handle H-42-C-2 : 1pc Bracket for Handle AS-H30 : 2pcs AS Nut AS-8M5 : 2pcs M5 x 10 Hexagon Socket Countersunk Head Screw : 4pcs	—
		100-041-487	AS-H-42-C-2-10	Groove Width 10 mm	Handle H-42-C-2 : 1pc Bracket for Handle AS-H30 : 2pcs AS Nut AS-10M5 : 2pcs M5 x 10 Hexagon Socket Countersunk Head Screw : 2pcs M5 x 12 Hexagon Socket Countersunk Head Screw : 2pcs	—

[How to Install]

Refer to **1** : FRONT P.20, **2** : P.488, **3** : P.706

STAINLESS STEEL HANDLE H-42-F14

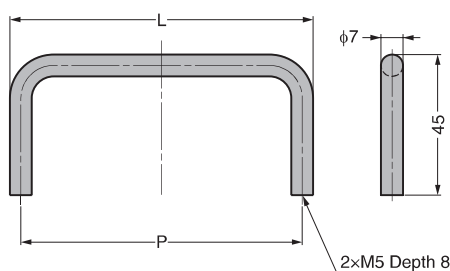
SUS316



RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
		100-019-233	H-42-F14	Stainless Steel (SUS316)	Polished	25	50	250

STAINLESS STEEL HANDLE MG

SUS

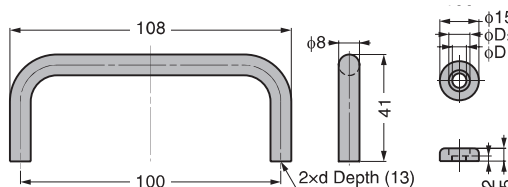


- Higher profile allows for easy gripping with glove on.
- MG-68 is compliant with SEMI standard (SEMI S8-0307).

RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	Weight (g)	Box (pcs)	Carton (pcs)
		100-010-488	MG-68	Stainless Steel (SUS304)	Polished	75	68	42	100	300
		100-010-073	MG-90			97	90	48	100	300

HANDLE T-100-8

SUS

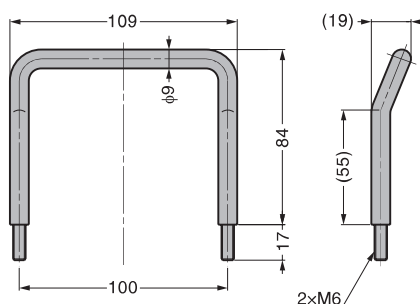


- Higher profile allows for easy gripping with glove on.

RoHS	CAD	Item Code	Item Name	Material	Finish	d	D ₁	D ₂	Weight (g)	Box (pcs)	Carton (pcs)
		100-010-224	T-100-8S	Stainless Steel (SUS304)	Polished	M5	5.5	8.2	72	100	300
		100-019-855	T-100-8CR	Brass	Chrome	M4	4.5	8	78	50	—

STAINLESS STEEL HANDLE H-75-BL-100

NSF SUS



- Angled grip for a comfortable grip.

[Remarks]

- Please use washers for wood or melamine resin. (Not included)

RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
		100-010-604	H-75-BL-100	Stainless Steel (SUS304)	Polished	130	20	80

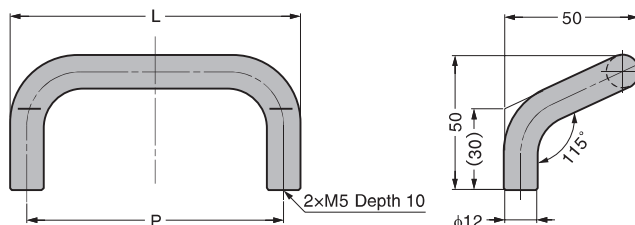
STAINLESS STEEL HANDLE LF-12



- Angled grip for a comfortable grip.
- ϕ 12mm stable and strong handle.
- AS parts set for installing to aluminium frame also available. Content of the parts set is as follows.

[Parts Included]

- Truss head screw M5 x 30



LARGE HANDLES

HANDLES (FRONT SCREW MOUNT)

HANDLES (BACK SCREW MOUNT)

RECESSED PULLS

PULLS & KNOBS

LATCH HANDLES

[Handle]

RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	Load capacity N	Load capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
		100-010-520	LF-12-96	Stainless Steel (SUS304)	Satin	108	96	441	45	182	10	80
		100-010-521	LF-12-128			140	128			211	10	60
		100-010-522	LF-12-160			172	160			236	10	60



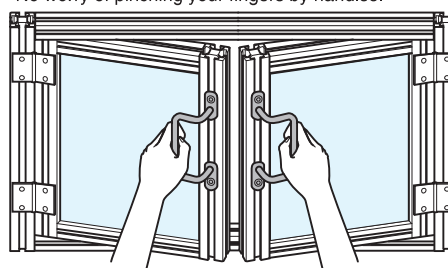
Parts Set for Installing to Aluminium Frame

Please refer to the series introduction page [1](#) for details about AS series.

[Application Example]

For double door

No worry of pinching your fingers by handles.



[AS Parts Set] Parts set of brackets, screws and AS nuts used for installing to aluminium frame.

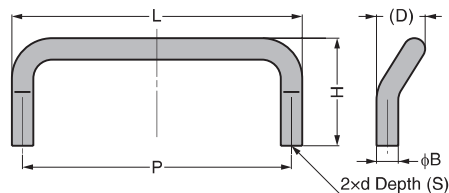
RoHS	CAD	Item Code	Item Name	Aluminium Frame	Parts	Weight (g)
		100-041-492	AS-LF-12-96-8	Groove Width 8 mm	Handle LF-12-96 : 1pc Bracket for Handle AS-H30 : 2pcs AS Nut AS-8M5 : 2pcs M5 x 10 Hexagon Socket Countersunk Head Screw : 4pcs	—
		100-041-493	AS-LF-12-96-10	Groove Width 10 mm	Handle LF-12-96 : 1pc Bracket for Handle AS-H30 : 2pcs AS Nut AS-10M5 : 2pcs M5 x 10 Hexagon Socket Countersunk Head Screw : 2pcs M5 x 12 Hexagon Socket Countersunk Head Screw : 2pcs	—
		100-041-494	AS-LF-12-128-8	Groove Width 8 mm	Handle LF-12-128 : 1pc Bracket for Handle AS-H30 : 2pcs AS Nut AS-8M5 : 2pcs M5 x 10 Hexagon Socket Countersunk Head Screw : 4pcs	—
		100-041-495	AS-LF-12-128-10	Groove Width 10 mm	Handle LF-12-128 : 1pc Bracket for Handle AS-H30 : 2pcs AS Nut AS-10M5 : 2pcs M5 x 10 Hexagon Socket Countersunk Head Screw : 2pcs M5 x 12 Hexagon Socket Countersunk Head Screw : 2pcs	—
		100-041-496	AS-LF-12-160-8	Groove Width 8 mm	Handle LF-12-160 : 1pc Bracket for Handle AS-H30 : 2pcs AS Nut AS-8M5 : 2pcs M5 x 10 Hexagon Socket Countersunk Head Screw : 4pcs	—
		100-041-497	AS-LF-12-160-10	Groove Width 10 mm	Handle LF-12-160 : 1pc Bracket for Handle AS-H30 : 2pcs AS Nut AS-10M5 : 2pcs M5 x 10 Hexagon Socket Countersunk Head Screw : 2pcs M5 x 12 Hexagon Socket Countersunk Head Screw : 2pcs	—

Refer to [1](#) : FRONT P.20, [2](#) : P.488, [3](#) : P.706

STAINLESS STEEL HANDLE H-75-C



- Angled grip for a comfortable grip.
- AS parts set for installing to aluminium frame also available. Content of the parts set is as follows.



[Handle]

RoHS	CAD	Item Code	Old Item Code	Item Name	Material	Finish	L	H	D	B	P	d	S	Weight (g)	Box (pcs)	Carton (pcs)
✓	3D	100-010-605	100-010-600	H-75-C-66	Stainless Steel (SUS304)	Polished	66	30	16	6	60	M4	7	23	100	400
✓	3D	100-010-606	100-010-601	H-75-C-86			86	31.5			80			28	100	400
✓	3D	100-010-607	100-010-602	H-75-C-108			108	32	18	8	100	M5	10	54	50	200
✓	3D	100-010-608	100-010-603	H-75-C-128			128	40			120			70	50	200

※Item code has been revised.

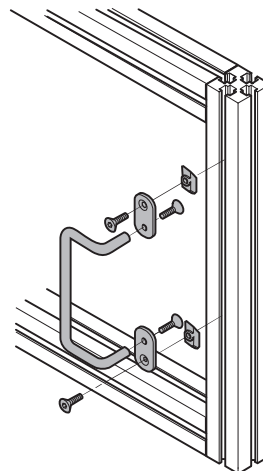


Parts Set for Installing to Aluminium Frame

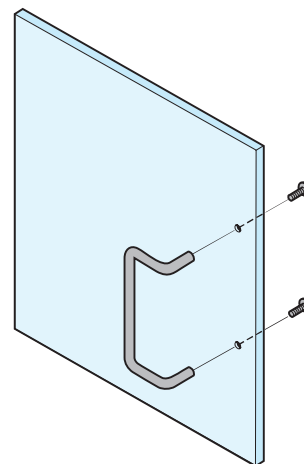
Please refer to the series introduction page [1](#) for details about AS series.

[How to Install]

Frame Installation



Panel Installation



[AS Parts Set] Parts set of brackets, screws and AS nuts used for installing to aluminium frame.

RoHS	CAD	Item Code	Item Name	Aluminium Frame	Parts	Weight (g)
✓	—	100-041-488	AS-H-75-C-108-8	Groove Width 8 mm	Handle H-75-C-108 : 1pc Bracket for Handle AS-H30 : 2pcs AS Nut AS-8M5 : 2pcs M5 × 10 Hexagon Socket Countersunk Head Screw : 4pcs	—
✓	—	100-041-489	AS-H-75-C-108-10	Groove Width 10 mm	Handle H-75-C-108 : 1pc Bracket for Handle AS-H30 : 2pcs AS Nut AS-10M5 : 2pcs M5 × 10 Hexagon Socket Countersunk Head Screw : 2pcs M5 × 12 Hexagon Socket Countersunk Head Screw : 2pcs	—
✓	—	100-041-490	AS-H-75-C-128-8	Groove Width 8 mm	Handle H-75-C-128 : 1pc Bracket for Handle AS-H30 : 2pcs AS Nut AS-8M5 : 2pcs M5 × 10 Hexagon Socket Countersunk Head Screw : 4pcs	—
✓	—	100-041-491	AS-H-75-C-128-10	Groove Width 10 mm	Handle H-75-C-128 : 1pc Bracket for Handle AS-H30 : 2pcs AS Nut AS-10M5 : 2pcs M5 × 10 Hexagon Socket Countersunk Head Screw : 2pcs M5 × 12 Hexagon Socket Countersunk Head Screw : 2pcs	—

Refer to [1](#) : FRONT P.20, [2](#) : P.488, [3](#) : P.706

STAINLESS STEEL HANDLE H-42-B

SUS



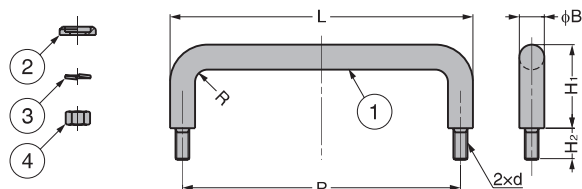
● Bracket H-42-Z **1** is included. Bracket can also be ordered separately.

[Remarks]

● Be sure to use supplied brackets for installation.

[Parts Included]

- Bracket H-42-Z **1**
- Spring washer
- Hexagon nut



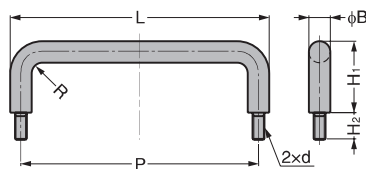
No.	Part Name	Material	Finish
①	Handle	Stainless Steel (SUS304)	Polished
②	Bracket H-42-Z		Barrel Polished
③	Spring Washer		Plain
④	Hexagon Nut		

RoHS	CAD	Item Code	Item Name	L	H ₁	H ₂	B	P	R	d	Weight (g)	Bracket	Box (pcs)	Carton (pcs)
		100-019-765	H-42-B-9	46	22	8.5	6	40	3	M4	15	H-42-Z-6	50	500
		100-010-550	H-42-B-8	66		7		60			20		100	500
		100-010-552	H-42-B-14	86		10		80			27		50	250
		100-010-551	H-42-B-1	75	30	11	7	68	3.5	M5	40	H-42-Z-7	50	250
		100-010-553	H-42-B-2	109			9	100	4.5		80	H-42-Z-9	50	150
		100-010-554	H-42-B-3	120			40	10	110	5	M6	120	H-42-Z-10	50
		100-010-555	H-42-B-4	130	120	125			50			150		
		100-010-556	H-42-B-15	162	50	20			12	150	6	M8	235	H-42-Z-12
		100-010-557	H-42-B-5	200			188	270		30			60	
		100-010-558	H-42-B-6	250			238	320		20			40	
		100-010-559	H-42-B-7	300			288	365		20			40	

Refer to **1** : P.488

TITANIUM HANDLE H-42-BT

TITANIUM



[Recommended Screws]

- Hexagon nut (back screw mount)

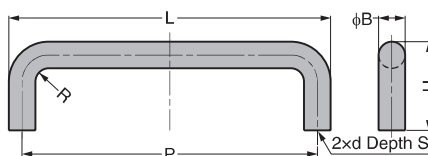
- Ideal for places with light weight and rust resistance requirements.
- Titanium handle hardly causes metal allergy.
- Since it is non-magnetic, suitable for medical devices such as MRI.
- Titanium brackets and mounting nuts also available.
- Stainless steel handle H-42-B **1** of the same shape also available.

RoHS	CAD	Item Code	Item Name	Material	Finish	L	H ₁	H ₂	B	P	R	d	Weight (g)	Box (pcs)	Carton (pcs)
		100-010-350	H-42-BT-2	Titanium	Polished	108	30	11	8	100	4.5	M5	40	20	80
		100-010-349	H-42-BT-4			130	40		10	120	5	M6	63	20	80
		100-010-348	H-42-BT-15			162	50	20	12	150	6	M8	112	20	80

Refer to **1** : P.487

TITANIUM HANDLE H-42-CT

TITANIUM



[Recommended Screws]

- d x (Door thickness+5~S)

- Ideal for places with light weight and rust resistance requirements.
- Titanium handle hardly causes metal allergy.
- Since it is non-magnetic, suitable for medical devices such as MRI.
- Titanium mounting screws also available.
- Stainless steel handle H-42-C **1** of the same shape also available.

RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	B	P	R	d	S	Weight (g)	Box (pcs)	Carton (pcs)
		100-010-352	H-42-CT-2	Titanium	Polished	108	30	8	100	4.5	M5	8	37	20	80
		100-010-351	H-42-CT-4			130	40	10	120	5	M6		59	20	80
		100-010-549	H-42-CT-15			162	50	12	150	6	M8	10	105	20	80

Refer to **1** : P.483

BRACKET FOR HANDLE AS-H30

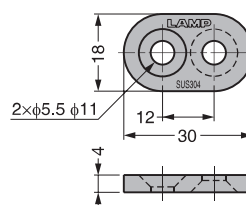
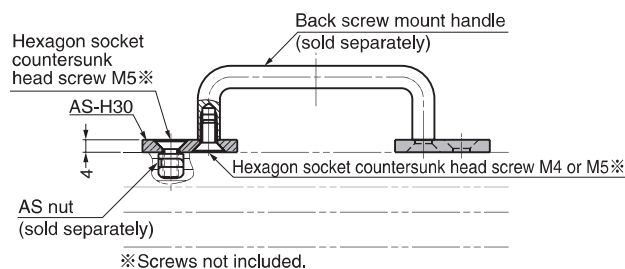
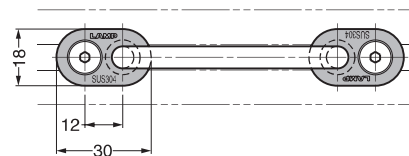


[Application Example]

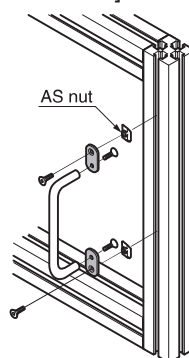


- Used for installing back screw mount handle from the front side of aluminium frame.
- Use AS nuts **1** for installation.
- Nuts not included for installing to 6mm groove width aluminium frame.

[Dimensions]



[How to Install]

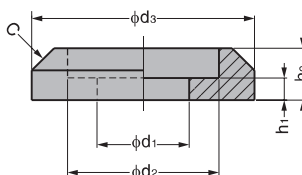


1. Fix bracket AS-H30 and back screw mount handle (sold separately) with mounting screws.
2. Lightly fix AS nut (sold separately) and bracket with mounting screws.
3. Put AS nut (sold separately) into the groove of aluminium frame, and fix it by tightening the screw.

RoHS	CAD	Item Code	Item Name	Material	Finish	Aluminium Frame	Weight (g)	Box (pcs)	Carton (pcs)
		100-080-026	AS-H30	Stainless Steel (SUS304)	Barrel Polished	Groove Width 8, 10	13	100	1000

Refer to **1** : P.706

BRACKET FOR STAINLESS STEEL HANDLE H-42-Z



- Bracket for wire pull.
- Suitable sizes of handle diameter and screw are as below.

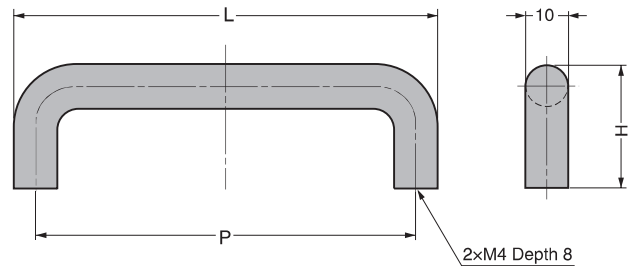
RoHS	CAD	Item Code	Item Name	Material	Finish	h ₁	h ₂	d ₁	d ₂	d ₃	C	Handle Diameter	Screw Size	Weight (g)	1 pack	Box (packs)	Carton (packs)
		100-010-570	H-42-Z-6	Stainless Steel (SUS304)	Barrel Polished	1.5	2.5	4.5	6.2	10	1	6	M4	1	2 pcs	200	2000
		100-010-571	H-42-Z-7			1	3	5.2	7.2	13	1	7	M5	0.9		200	2000
		100-010-572	H-42-Z-9			1	3	5.2	9.2	13	1	9	M5	1.6		200	2000
		100-010-573	H-42-Z-10			1.5	3.5	6.2	10.2	15	1.5	10	M6	2.7		200	2000
		100-010-574	H-42-Z-12			1.5	4.5	8.2	12.2	18	1.5	12	M8	4.9		200	2000

ALUMINIUM HANDLE AM



[Parts Included]

- Truss head screw M4 x 28



RoHS	CAD	Item Code	Item Name	Material	Finish	Colour	L	H	P	Weight (g)	Box (pcs)	Carton (pcs)
—	3D	100-017-600	AM-60I	Aluminium Alloy	Paint	Ivory	60	29	50	15.8	30	—
—	3D	100-017-603	AM-80I				80		70	19.8	30	—
—	3D	100-017-609	AM-120I				120		110	26.8	30	—
—	3D	100-017-601	AM-60B			Black	60		50	15.8	30	—
—	3D	100-017-610	AM-120B				120		110	26.8	30	—
—	3D	100-017-608	AM-100S		Anodised Silver	—	100	38	90	23.4	30	600
—	3D	100-017-611	AM-120S				120		110	26.8	30	—
—	3D	100-017-614	AM-310S				310		300	67	10	—

PLASTIC HANDLE PC



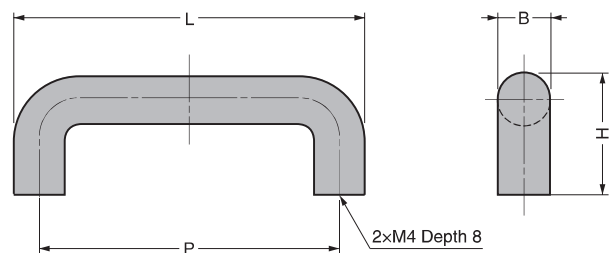
- Plastic handle contributes to weight reduction of doors.

[Remarks]

- Size and finish varies. Please check with actual item.

[Parts Included]

- Truss head screw M4 x 28



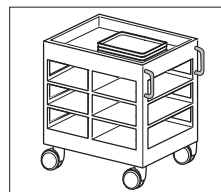
RoHS	CAD	Item Code	Item Name	Material	Colour	L	H	P	B	Weight (g)	Box (pcs)	Carton (pcs)
—	3D	100-015-502	PC-45-W	PS	White	45	28	35	10	7.5	60	—
—	3D	100-015-503	PC-80-W			80		68	12	14	60	—
—	3D	100-015-504	PC-120-W			120		108	12	18.3	60	—
—	3D	100-015-505	PC-45-B		Black	45	28	35	10	7.5	60	—
—	3D	100-015-506	PC-80-B			80		68	12	14	60	—
—	3D	100-015-507	PC-120-B			120		108	12	18.3	60	—

HANDLE SGH-200 Antistatic & Antibacterial Type

ANTIBACTERIAL



[Application Example]



- Elastomer coating provides static eliminating and antibacterial effect.
- Designed to reduce discomfort caused by static when touching a metal handle.
- Textured, soft handle surface improves grip in manufacturing environments where lubricants are used.

[Specifications]

- Operating temperature: -30°C ~80°C

[Applications]

- Wagon, medical equipment, pharmaceutical manufacturing equipment, semiconductor manufacturing and measurement equipment, school facilities, and other facilities requiring static elimination and antibacterial, etc.

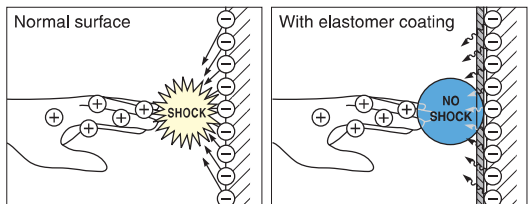
[Remarks]

- Install to a conductive surface to eliminate static. Non-conductive surface has no static eliminating effect. Discharge by grounding is required.
- This product can reduce the pain feeling, but not eliminate it. The sense of pain varies for different people.

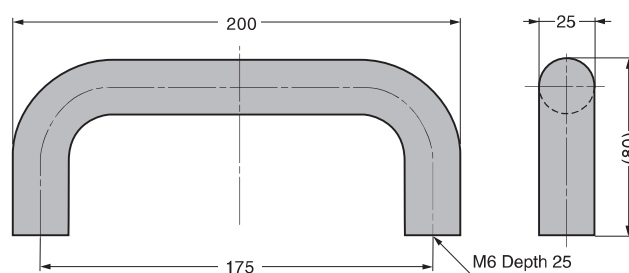
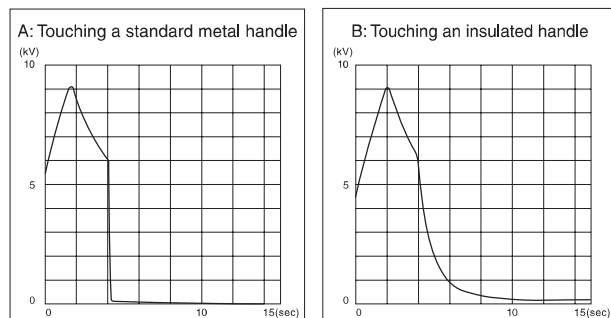
[Parts Included]

- Pan head screw with spring washer M6×20 (SUS)

[Pathway of Releasing Electrical Discharge]



[Properties of Special Elastomer Coating]



RoHS	CAD	Item Code	Item Name	Material	Colour	Weight (g)	Box (pcs)	Carton (pcs)
		100-013-022	SGH-200	Base Material: PA, Coating: Elastomer	Blue	250	1	20

STAINLESS STEEL HANDLE HGH

SUS



The silicone rubber mount provides a snug fit between the handle and the mounting surface.

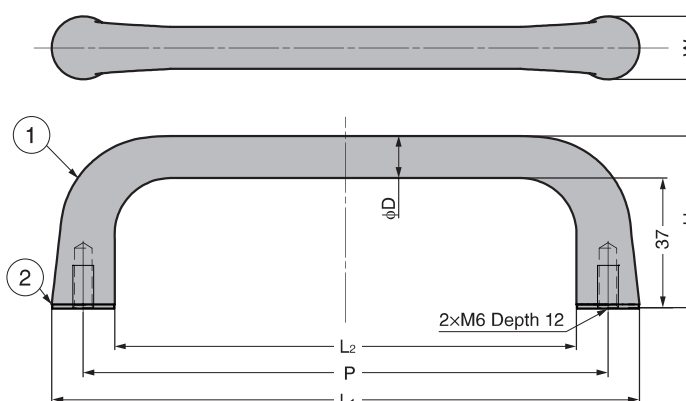


The handle shape and the mirror finish are designed to discourage dust accumulation. This helps to suppress bacterial propagation and allows for faster and easier cleaning.

- Wider base for easy cleaning.
- Silicone rubber gasket is compliant with the Food Sanitation Act.

[Applications]

- Food processing and production machinery.



No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Mirror
②	Gasket	Silicone rubber (Q)	Blue

RoHS	CAD	Item Code	Item Name	L ₁	L ₂	W	H ₁	P	D	Weight (g)
—	—	100-037-021	HGH-115SM	130	100	15	47	115	10	144
—	—	100-037-022	HGH-150SM	168	132	18	49	150	12	244
—	—	100-037-023	HGH-200SM	222.5	177.5	22.5	52	200	15	463

Zwei L STAINLESS STEEL HANDLE ZL-2001

SUS316



● Superior "Zwei L Finish" .

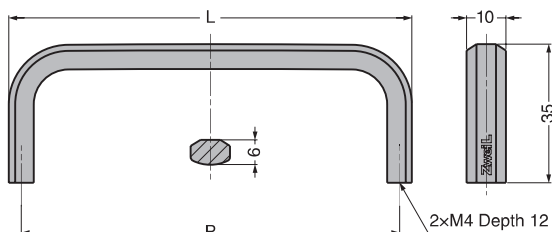
Zwei L represents the very pinnacle of ultra-premium Japanese hardware design. Contrasting bands of mirror finish and lustrous satin on a faceted profile give jewel like highlights which flatter any architectural space.

[Remarks]

- When installing to thin sheet metal or acrylic sheet, mounting surface may not be horizontal and the sheet may warp. Please check with actual item.

[Parts Included]

- Truss head screw M4 x 30 (SUS)



RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	Weight (g)	Box (pcs)	Carton (pcs)
		100-011-000	ZL-2001-32	Stainless Steel (SUS316)	Zwei L Finish	38	32	34	20	—
		100-011-001	ZL-2001-64			70	64	46	12	—
		100-011-002	ZL-2001-96			102	96	59	12	—
		100-011-003	ZL-2001-128			134	128	72	10	—
—		100-011-037	ZL-2001-160			166	160	86	10	—
—		100-011-038	ZL-2001-192			198	192	100	6	—
—		100-011-039	ZL-2001-256			262	256	125	6	—

Zwei L STAINLESS STEEL HANDLE ZL-2002

SUS316



● Superior "Zwei L Finish" .

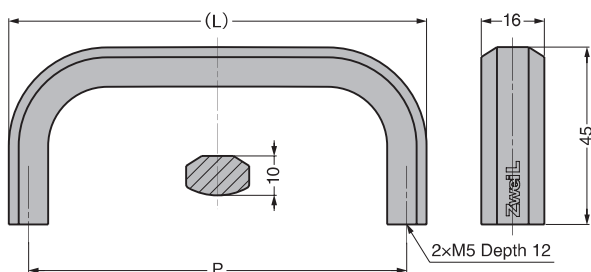
Zwei L represents the very pinnacle of ultra-premium Japanese hardware design. Contrasting bands of mirror finish and lustrous satin on a faceted profile give jewel like highlights which flatter any architectural space.

[Remarks]

- when installing to thin sheet metal or acrylic sheet, mounting surface may not be horizontal and the sheet may warp. Please check with actual item.

[Parts Included]

- Truss head screw M5 x 30 (SUS)



RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	Weight (g)	Box (pcs)	Carton (pcs)
		100-011-004	ZL-2002-96	Stainless Steel (SUS316)	Zwei L Finish	106	96	165	12	—
		100-011-005	ZL-2002-128			138	128	194	12	—
		100-011-006	ZL-2002-160			170	160	233	12	—
		100-011-007	ZL-2002-192			202	192	265	6	—
		100-011-008	ZL-2002-256			266	256	332	6	—
		100-011-009	ZL-2002-320			330	320	395	6	—
		100-014-431	ZL-2002-416			426	416	491	4	—
		100-014-432	ZL-2002-512			522	512	587	4	—

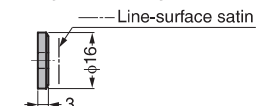
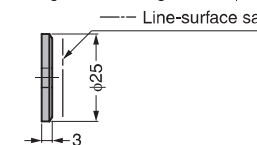
Zwei L BRACKET FOR STAINLESS STEEL HANDLE ZL-2301 For Handle ZL-2001 and ZL-2002**SUS316****TEMPERED GLASS**

- Bracket for installing handle ZL-2001 and ZL-2002 of Zwei L series on glass door.
- Superior "Zwei L Finish" .
- 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.
- For glass door of 4, 5 and 6mm thickness.

[Remarks]

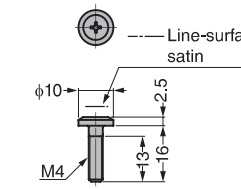
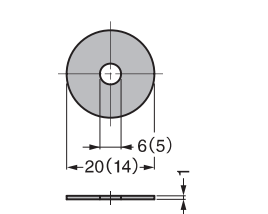
- When installing to thin sheet metal or acrylic sheet, mounting surface may not be horizontal and the sheet may warp. Please check with actual item.

Handles are sold separately.

① ZL glass mounting bracket $\phi 16$ ② ZL glass mounting bracket $\phi 25$ ③ Gasket for ZL glass mounting bracket $\phi 14$ ④ Gasket for ZL glass mounting bracket $\phi 20$

⑤ ZL countersunk head screw M4x16

⑥ ZL countersunk head screw M5x16



Glass processing hole
 $\phi 5$ (glass thickness 4, 5)
 $\phi 6$ (glass thickness 6)

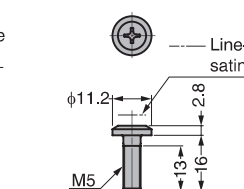
Glass processing hole $\phi 6$

Figure above shows ④.
 Dimensions in () are for ③.

[Bracket Set for ZL-2001 $\phi 16$] w/Screw**Parts set**

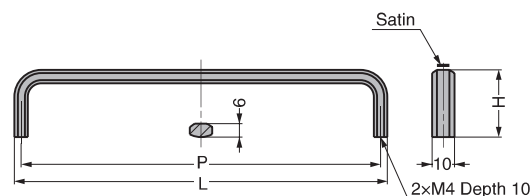
No.	Part Name	Material	Finish / Colour	Carton (pcs)
①	Bracket ($\phi 16$)	Stainless Steel (SUS316)	Zwei L Finish	2
③	Gasket ($\phi 14$)	Elastomer (TPE)	Clear	4
⑤	Truss Head Screw M4 x 16	Stainless Steel	Zwei L Finish	2

RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
-	3D	100-010-978	ZL-2301-2016	18	4	-

[Bracket Set for ZL-2002 $\phi 25$] w/Screw**Parts set**

No.	Part Name	Material	Finish / Colour	Carton (pcs)
②	Bracket (ϕ 25)	Stainless Steel (SUS316)	Zwei L Finish	2
③	Gasket (ϕ 14)	Elastomer (TPE)	Clear	
④	Gasket (ϕ 20)			
⑥	Truss Head Screw M5 x 16	Stainless Steel	Zwei L Finish	

RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
-	3D	100-010-979	ZL-2301-2025	34	4	-

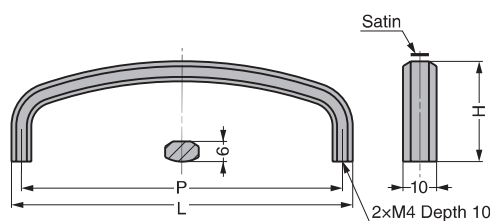
STAINLESS STEEL HANDLE XL-JS**SUS316**

- Finish: Combination of polished and satin.

[Parts Included]

- Truss head screw M4 x 25 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	H	Weight (g)	Box (pcs)	Carton (pcs)
3D	3D	100-012-792	XL-JS165TT	Stainless Steel (SUS316)	Polished and Satin Combination	166	160	30	81	15	150
3D	3D	100-012-793	XL-JS260TT			260	254	33	122	10	100
3D	3D	100-012-794	XL-JS360TT			358	352	36	166	10	100

STAINLESS STEEL HANDLE XL-JSR**SUS316**

- Finish: Combination of polished and satin.

[Parts Included]

- Truss head screw M4 x 25 (SUS)

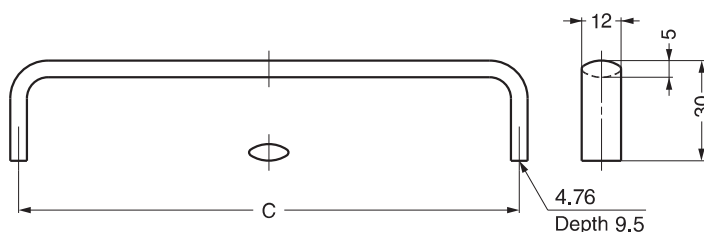
RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	H	Weight (g)	Box (pcs)	Carton (pcs)
3D	3D	100-012-795	XL-JSR40TT	Stainless Steel (SUS316)	Polished and Satin Combination	38	32	27	26	30	300
3D	3D	100-012-796	XL-JSR70TT			70	64	30	35	20	200
3D	3D	100-012-797	XL-JSR100TT			102	96		51	20	200
3D	3D	100-012-798	XL-JSR135TT			134	128		63	15	150

STAINLESS STEEL HANDLE KC-S

NSF SUS316



● Ideal for harsh and high corrosion environments.



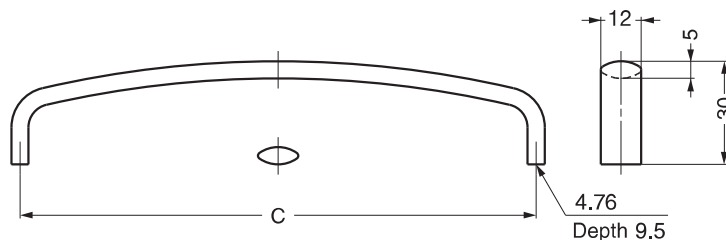
RoHS	CAD	Item Code	Item Name	Material	Finish	C	Weight (g)	Box (pcs)	Carton (pcs)
—	—	100-023-410	KC-S635/M	Stainless Steel (SUS316)	Mirror	88.9	67	20	200
—	—	100-023-414	KC-S635/S		Satin			20	200
—	—	100-023-411	KC-S640/M		Mirror	101.6	71	20	200
—	—	100-023-415	KC-S640/S		Satin			20	200
—	—	100-023-412	KC-S650/M		Mirror	127	85	20	200
—	—	100-023-416	KC-S650/S		Satin			20	200
—	—	100-023-413	KC-S660/M		Mirror	152.4	95	20	200
—	—	100-023-417	KC-S660/S		Satin			20	200

STAINLESS STEEL HANDLE KC-R

NSF SUS316



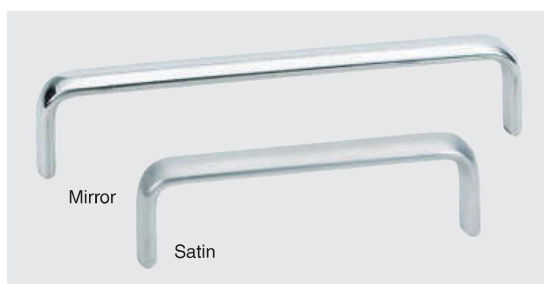
● Ideal for harsh and high corrosion environments.



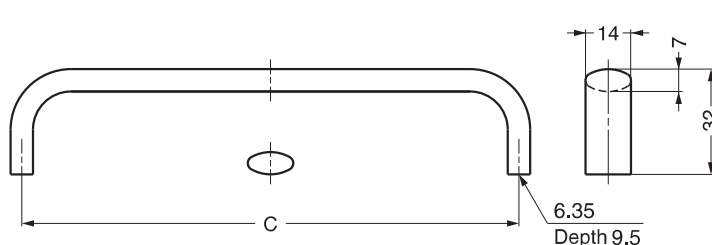
RoHS	CAD	Item Code	Item Name	Material	Finish	C	Weight (g)	Box (pcs)	Carton (pcs)
—	—	100-023-418	KC-R635/M	Stainless Steel (SUS316)	Mirror	88.9	60	20	200
—	—	100-023-422	KC-R635/S		Satin			20	200
—	—	100-023-419	KC-R640/M		Mirror	101.6	67	20	200
—	—	100-023-423	KC-R640/S		Satin			20	200
—	—	100-023-420	KC-R650/M		Mirror	127	78	20	200
—	—	100-023-424	KC-R650/S		Satin			20	200
—	—	100-023-421	KC-R660/M		Mirror	152.4	88	20	200
—	—	100-023-425	KC-R660/S		Satin			20	200

STAINLESS STEEL HANDLE EK-S

NSF SUS316



● Ideal for harsh and high corrosion environments.



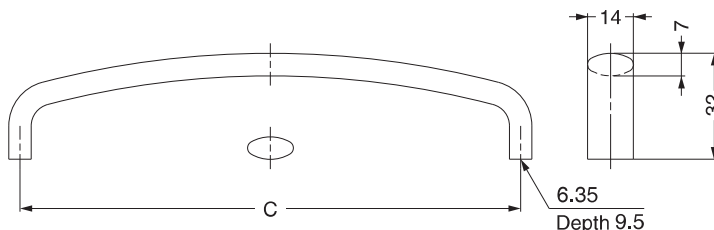
RoHS	CAD	Item Code	Item Name	Material	Finish	C	Weight (g)	Box (pcs)	Carton (pcs)
—	—	100-023-426	EK-S635/M	Stainless Steel (SUS316)	Mirror	88.9	106	20	200
—	—	100-023-430	EK-S635/S		Satin			20	200
—	—	100-023-427	EK-S640/M		Mirror	101.6	116	20	200
—	—	100-023-431	EK-S640/S		Satin			20	200
—	—	100-023-428	EK-S650/M		Mirror	127	134	20	200
—	—	100-023-432	EK-S650/S		Satin			20	200
—	—	100-023-429	EK-S660/M		Mirror	152.4	152	20	200
—	—	100-023-433	EK-S660/S		Satin			20	200

STAINLESS STEEL HANDLE EK-R

NSF SUS316



● Ideal for harsh and high corrosion environments.



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

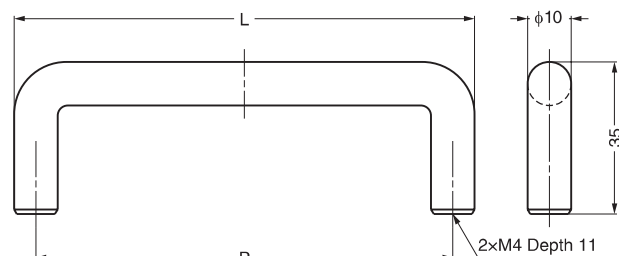
STAINLESS STEEL HANDLE H-35

SUS



[Parts Included]

- Truss head screw M4 x 45



RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	Weight (g)	Box (pcs)	Carton (pcs)
—	—	100-036-723	H-35-96-SS	Stainless Steel (SUS304)	Mirror	106	96	95	25	—
—	—	100-036-724	H-35-96-SM		Satin	106	96	95	25	—
—	—	100-036-725	H-35-128-SS		Mirror	138	128	113	25	—
—	—	100-036-726	H-35-128-SM		Satin	138	128	113	25	—
—	—	100-036-727	H-35-160-SS		Mirror	170	160	133	25	—
—	—	100-036-728	H-35-160-SM		Satin	170	160	133	25	—
—	—	100-036-729	H-35-192-SS		Mirror	202	192	153	25	—
—	—	100-036-730	H-35-192-SM		Satin	202	192	153	25	—
—	—	100-036-731	H-35-288-SS		Mirror	298	288	208	25	—
—	—	100-036-732	H-35-288-SM		Satin	298	288	208	25	—

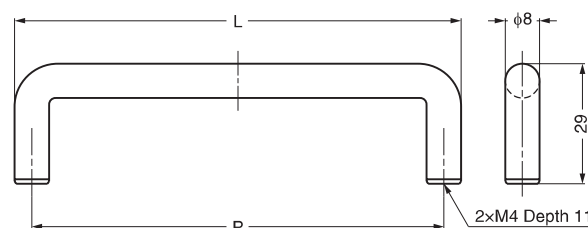
STAINLESS STEEL HANDLE H-29

SUS



[Parts Included]

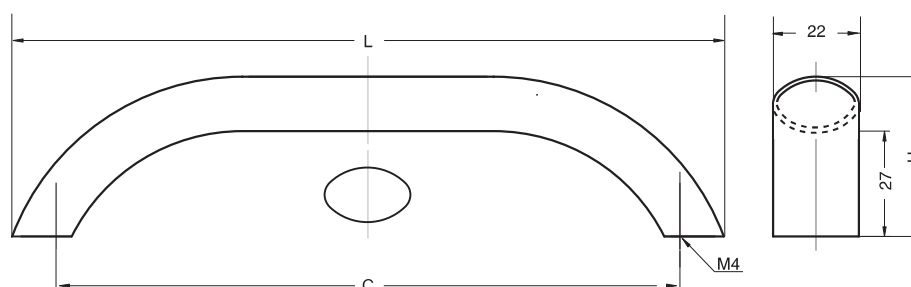
- Truss head screw M4 x 45



RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	Weight (g)	Box (pcs)	Carton (pcs)
—	—	100-036-733	H-29-64-SS	Stainless Steel (SUS304)	Mirror	72	64	46	25	—
—	—	100-036-734	H-29-64-SM		Satin	72	64	46	25	—
—	—	100-036-735	H-29-96-SS		Mirror	104	96	58	25	—
—	—	100-036-736	H-29-96-SM		Satin	104	96	58	25	—
—	—	100-036-737	H-29-128-SS		Mirror	136	128	—	25	—
—	—	100-036-738	H-29-128-SM		Satin	136	128	—	25	—
—	—	100-036-739	H-29-160-SS		Mirror	168	160	64	25	—
—	—	100-036-740	H-29-160-SM		Satin	168	160	64	25	—
—	—	100-036-741	H-29-192-SS		Mirror	200	192	98	25	—
—	—	100-036-742	H-29-192-SM		Satin	200	192	98	25	—

SUS

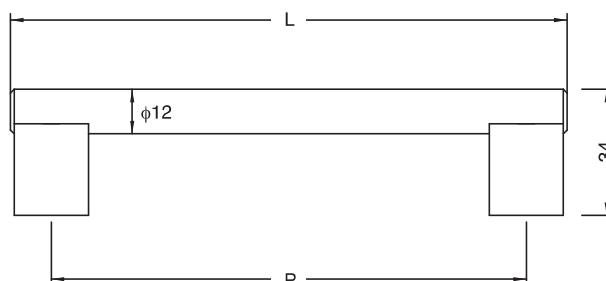
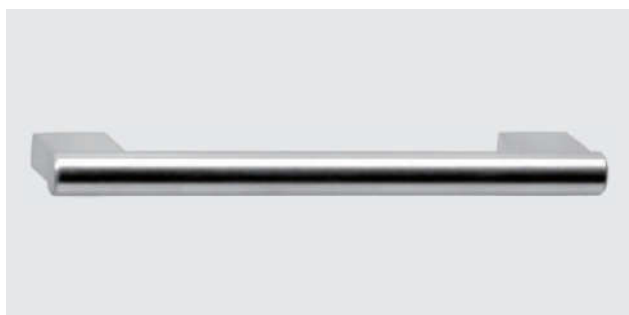
STAINLESS STEEL HANDLE 82 SERIES



RoHS	CAD	Item Code	Item Name	Material	Finish	L	C	H	Weight (g)	Box (pcs)	Carton (pcs)
-	-	100-035-675	8261	Stainless Steel (SUS304)	Satin	182	160	41	166	25	250
-	-	100-035-676	8262			214	192		179	25	250
-	-	100-035-677	8263			246	224		192	25	250
-	-	100-035-678	8264			342	320		231	25	250

STAINLESS STEEL HANDLE I333

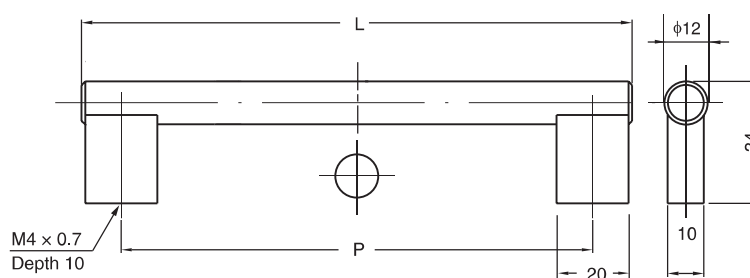
SUS



RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	Weight (g)	Box (pcs)	Carton (pcs)
-	-	100-023-456	I333128	Stainless Steel (SUS304)	Satin	150	128	203	25	150
-	-	100-023-457	I333160			182	160	228	25	100
-	-	100-023-458	I333192			214	192	253	10	40
-	-	100-023-459	I333292			314	292	347	10	80
-	-	100-023-460	I333320			342	320	364	10	80
-	-	100-023-461	I333342			364	342	384	10	80

STAINLESS STEEL HANDLE I1020

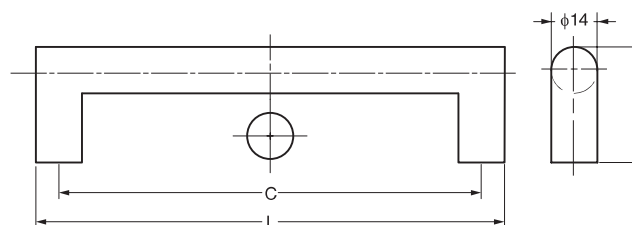
SUS



RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	Weight (g)	Box (pcs)	Carton (pcs)
—	3D	100-012-961	I1020128	Stainless Steel (SUS304)	Satin	150	128	159	25	—
—	3D	100-012-962	I1020160			182	160	85	25	—
—	3D	100-012-963	I1020192			214	192	93	25	—
—	3D	100-012-964	I1020320			342	320	128	25	—
—	3D	100-012-965	I1020492			514	492	175	25	—

STAINLESS STEEL HANDLE DIH

SUS



RoHS	CAD	Item Code	Item Name	Material	Finish	L	C	H	Weight (g)	Box (pcs)	Carton (pcs)
—	—	100-035-679	DIH-096	Stainless Steel (SUS304)	Satin	110	96	35	57	25	250
—	—	100-035-555	DIH-128			142	128		66	25	250
—	—	100-035-680	DIH-192			206	192		83	25	250
—	—	100-035-681	DIH-342			356	342		123	25	250
—	—	100-035-682	DIH-492			506	492		163	25	250
—	—	100-035-683	DIH-592			606	592		189	25	250

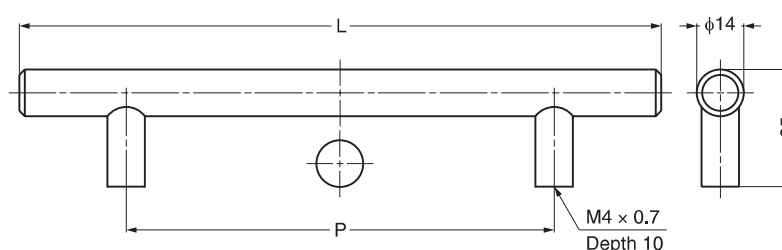
STAINLESS STEEL HANDLE I1014

SUS



[Recommended Screw]

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



RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	Weight (g)	Box (pcs)	Carton (pcs)
—	3D	100-012-629	I1014128	Stainless Steel (SUS304)	Satin	192	128	113	25	—
—	3D	100-012-628	I1014192			256	192	136	25	—
—	3D	100-012-627	I1014342			406	342	187	25	—
—	3D	100-012-626	I1014492			556	492	216	25	—

STAINLESS STEEL HANDLE I100

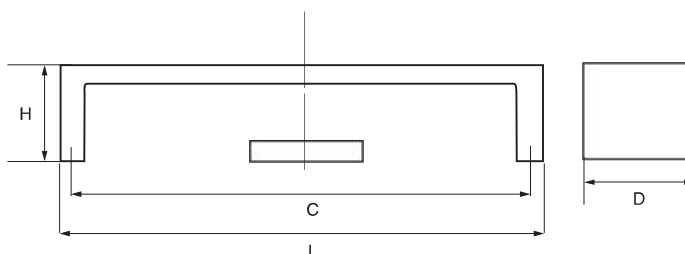
SUS



RoHS	CAD	Item Code	Item Name	Material	Finish	P	H	Weight (g)	Box (pcs)	Carton (pcs)
—	—	100-023-468	I100096	Stainless Steel (SUS304)	Satin	96	40	155	5	—
—	—	100-023-469	I100128			128	40	137	5	—
—	—	100-023-470	I100160			160	40	153	5	—
—	—	100-023-471	I100192			192	40	182	5	—
—	—	100-023-472	I100320			320	40	263	5	—
—	—	100-023-473	I100512			512	40	443	5	—

STAINLESS STEEL HANDLE 40 SERIES

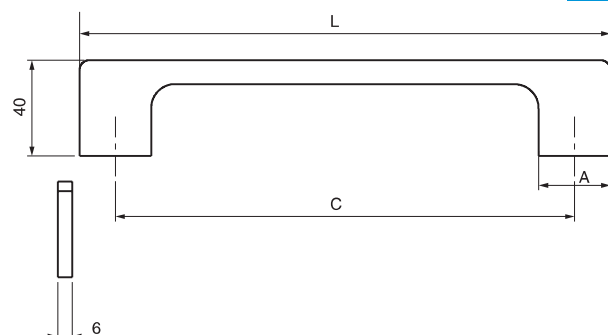
SUS



RoHS	CAD	Item Code	Item Name	Material	Finish	L	C	H	D	Weight (g)	Box (pcs)	Carton (pcs)
—	—	100-035-656	40128	Stainless Steel (SUS304)	Satin	138	128	35	40	166	30	—
—	—	100-035-657	40160			170	160			198	30	—
—	—	100-035-658	40192			202	192			219	30	—

STAINLESS STEEL HANDLE DSI-110

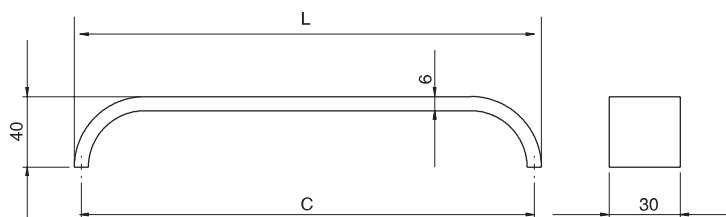
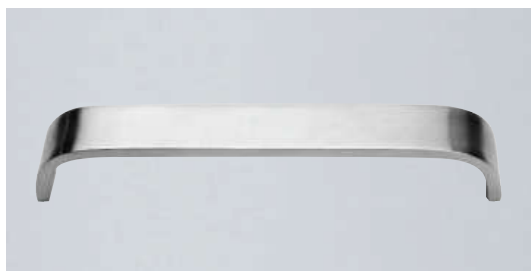
SUS



RoHS	CAD	Item Code	Item Name	Material	Finish	C	L	P	Weight (g)	Box (pcs)	Carton (pcs)
—	—	100-035-659	DSI-110- 96	Stainless Steel (SUS304)	Satin	96	126	30	135	25	—
—	—	100-035-660	DSI-110-128			128	158		152	25	—
—	—	100-035-661	DSI-110-160			160	190		190	25	—
—	—	100-035-662	DSI-110-192			192	222		230	25	—
—	—	100-035-663	DSI-110-320			320	350		380	10	—
—	—	100-035-664	DSI-110-512			512	542		610	10	—

STAINLESS STEEL HANDLE DSI-120

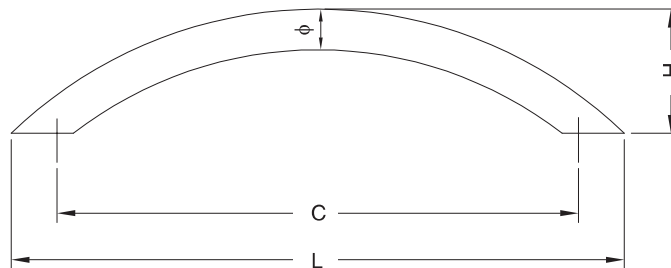
SUS



RoHS	CAD	Item Code	Item Name	Material	Finish	L	C	Weight (g)	Box (pcs)	Carton (pcs)
-	-	100-035-665	DSI-120- 96	Stainless Steel (SUS304)	Satin	102	96	186	10	-
-	-	100-035-666	DSI-120-128			134	128	248	10	-
-	-	100-035-667	DSI-120-160			166	160	275	10	-
-	-	100-035-668	DSI-120-192			196	192	375	10	-
-	-	100-035-669	DSI-120-320			326	320	620	5	-
-	-	100-035-670	DSI-120-512			518	512	992	5	-

STAINLESS STEEL HANDLE I163

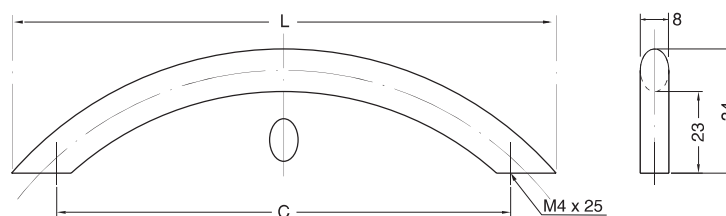
SUS



RoHS	CAD	Item Code	Item Name	Material	Finish	L	C	H	Weight (g)	Box (pcs)	Carton (pcs)
-	-	100-023-474	I163160	Stainless Steel (SUS304)	Satin	200	160	35	228	25	100
-	-	100-023-475	I163192			244	192	35	262	25	100
-	-	100-023-476	I163320			400	320	36	427	10	80

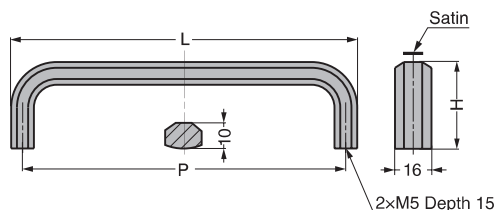
STAINLESS STEEL HANDLE 30 SERIES

SUS



RoHS	CAD	Item Code	Item Name	Material	Finish	L	C	Weight (g)	Box (pcs)	Carton (pcs)
-	-	100-035-671	3096	Stainless Steel (SUS304)	Satin	118	96	72	25	200
-	-	100-035-672	3097			151	128	90	25	200
-	-	100-035-673	3098			189	160	108	25	200
-	-	100-035-674	3099			224	192	128	25	200

STAINLESS STEEL HANDLE XL-CU



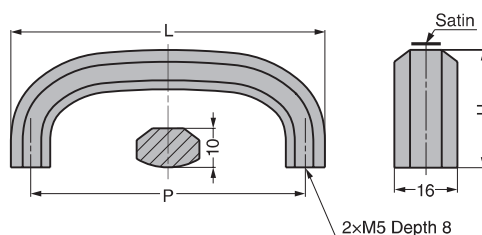
- Finish: Combination of polished and satin.

[Parts Included]

- Truss head screw M5 x 30 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P	Weight (g)	Box (pcs)	Carton (pcs)
		100-010-470	XL-CU80TT	Stainless Steel (SUS303)	Polished and Satin Combination	82	32	72	112	10	100
		100-010-471	XL-CU100TT			102	34	92	136	10	100
		100-010-472	XL-CU120TT			122	36	112	163	10	100
		100-010-473	XL-CU150TT			152	38	142	200	8	80
		100-010-474	XL-CU180TT			182	40	172	234	8	80
		100-010-475	XL-CU220TT			222	42	212	282	8	40
		100-010-476	XL-CU300TT			302	44	292	372	6	30

STAINLESS STEEL HANDLE XL-CUR



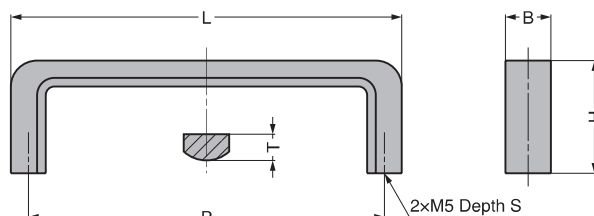
- Finish: Combination of polished and satin.

[Parts Included]

- Truss head screw M5 x 25 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P	Weight (g)	Box (pcs)	Carton (pcs)
-		100-012-825	XL-CUR80TT	Stainless Steel (SUS303)	Polished and Satin Combination	80	30	70	101	10	150
-		100-012-826	XL-CUR100TT			100	32	90	125	10	150
-		100-012-827	XL-CUR120TT			120	34	110	150	10	100
-		100-012-828	XL-CUR150TT			150	36	140	183	5	75

STAINLESS STEEL HANDLE FB

**[Parts Included]**

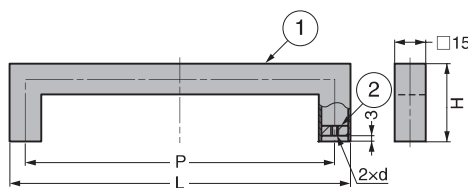
- Pan head screw M5 x 25

RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	B	T	P	S	Weight (g)	Box (pcs)	Carton (pcs)
		100-010-074	FB-90	Stainless Steel (SCS13)	Polished	90	26	10.5	6	82	10	45	35	280
		100-010-075	FB-110			110	28	12.5	7	102	12	60	25	200
		100-010-076	FB-130			130	32	14.5	8	120	14	93	20	160

※SCS13 is equivalent of SUS304.

STAINLESS STEEL HANDLE KPH

SUS



● Light handle with hollow body.

[Recommended Screws]

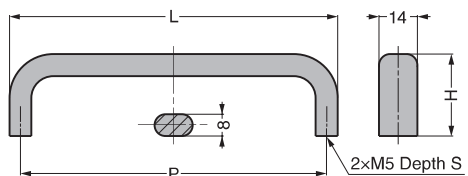
● d x (Door thickness +10~15)

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

RoHS	CAD	Item Code	Item Name	L	H	P	d	Weight (g)	Box (pcs)	Carton (pcs)
CE	3D	100-019-195	KPH-160	176	40	160	M4	100	10	100
CE	3D	100-019-196	KPH-192	208		192		115	10	100
CE	3D	100-019-197	KPH-224	240		224		130	10	100
CE	3D	100-019-198	KPH-256	272	50	256	M5	143	10	100
CE	3D	100-019-199	KPH-288	304		288		160	10	100

STAINLESS STEEL HANDLE EC

NSF SUS



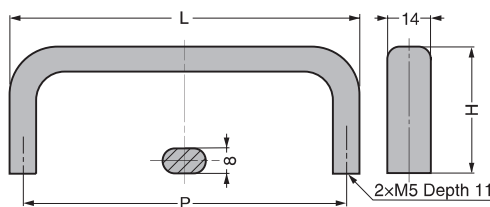
[Parts Included]

● Truss head screw M5 x 28

RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P	S	Weight (g)	Box (pcs)	Carton (pcs)	
		100-017-232	EC-80S	Stainless Steel (SUS304)	Satin	80	30	72	10	84	20	200	
		100-017-226	EC-80M		Polished						20	200	
		100-017-233	EC-100S		Satin	100	32	92		102	15	150	
		100-017-227	EC-100M		Polished						15	150	
		100-017-234	EC-120S		Satin	120	34	112	12	120	15	150	
		100-017-228	EC-120M		Polished						15	150	
		100-017-235	EC-150S		Satin	150	36	142		148	10	100	
		100-017-229	EC-150M		Polished						10	100	
		100-017-236	EC-180S		Satin	180	37	172			174	10	100
		100-010-049	EC-180M		Polished							10	100
		100-017-237	EC-220S		Satin	220	38	212		205	8	80	
		100-010-050	EC-220M		Polished						8	80	

STAINLESS STEEL HANDLE ECH

SUS



[Parts Included]

● Truss head screw M5 x 28

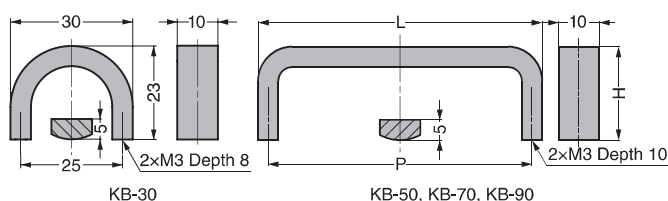
RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P	Weight (g)	Box (pcs)	Carton (pcs)	
		100-017-249	ECH-75S	Stainless Steel (SUS303)	Satin	83	40	75	115	10	100	
		100-017-241	ECH-75M		Polished					10	100	
		100-017-252	ECH-100S		Satin	108		100	135	15	150	
		100-017-242	ECH-100M		Polished					15	150	
		100-017-251	ECH-125S		Satin	133	50	125	153	10	100	
		100-017-243	ECH-125M		Satin					10	100	
		100-017-244	ECH-150M		Polished	158		150	190	7	70	
		100-017-245	ECH-200M			208		200	244	10	100	
		100-017-246	ECH-250M			258		250	280	5	50	
		100-017-247	ECH-300M			308		300	306	5	50	

STAINLESS STEEL HANDLE KB



[Parts Included]

- Truss head screw M3 x 28 (SUS)



RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P	Weight (g)	Box (pcs)	Carton (pcs)
		100-011-094	KB-30S	Stainless Steel (SUS303)	Satin	As Above	As Above	As Above	18	40	400
		100-011-093	KB-30M		Polished					40	400
		100-011-096	KB-50S		Satin	50	22	45	26	30	300
		100-011-095	KB-50M		Polished					30	300
		100-011-098	KB-70S		Satin	70	22.5	65	33	30	300
		100-011-097	KB-70M		Polished					30	300
		100-011-100	KB-90S		Satin	90	23	85	40	20	200
		100-011-099	KB-90M		Polished					20	200

LARGE HANDLES

HANDLES (FRONT SCREW MOUNT)

HANDLES (BACK SCREW MOUNT)

RECESSED PULLS

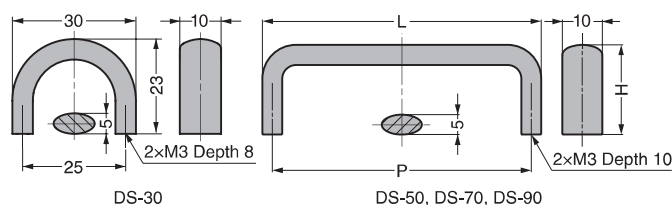
PULLS & KNOBS

STAINLESS STEEL HANDLE DS



[Parts Included]

- Truss head screw M3 x 28 (SUS)



RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P	Weight (g)	Box (pcs)	Carton (pcs)
		100-011-112	DS-30S	Stainless Steel (SUS303)	Satin	As Above	As Above	As Above	15	40	400
		100-011-111	DS-30M		Polished					40	400
		100-011-114	DS-50S		Satin	50	22	45	22	30	300
		100-011-113	DS-50M		Polished					30	300
		100-011-116	DS-70S		Satin	70	22.5	65	28	30	300
		100-011-115	DS-70M		Polished					30	300
		100-011-118	DS-90S		Satin	90	23	85	35	20	200
		100-011-117	DS-90M		Polished					20	200

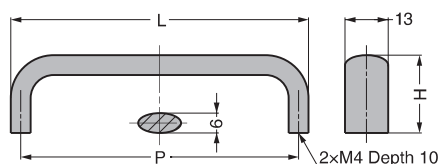
LATCH HANDLES

STAINLESS STEEL HANDLE DL



[Parts Included]

- Truss head screw M4 x 28 (SUS)



RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P	Weight (g)	Box (pcs)	Carton (pcs)
		100-011-102	DL-70S	Stainless Steel (SUS303)	Satin	70	23	64	44	20	200
		100-011-101	DL-70M		Polished					20	200
		100-011-104	DL-90S		Satin	90	23.5	84	55	20	200
		100-011-103	DL-90M		Polished					20	200
		100-011-106	DL-110S		Satin	110	24	104	65	15	150
		100-011-105	DL-110M		Polished					15	150
		100-011-108	DL-130S		Satin	130	24.5	124	75	15	150
		100-011-107	DL-130M		Polished					15	150
		100-011-110	DL-150S		Satin	150	25	144	86	15	150
		100-011-109	DL-150M		Polished					15	150

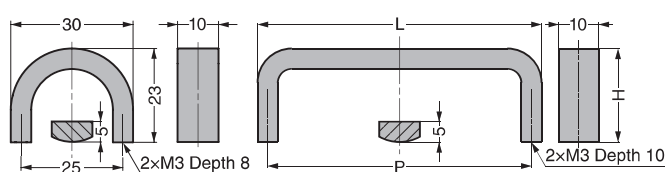
STAINLESS STEEL HANDLE KB-SUS304

SUS



[Parts Included]

● Truss head screw M3 × 28 (SUS)



KB-30

KB-50, KB-70, KB-90

RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P	Weight (g)	Box (pcs)	Carton (pcs)
✓	3D	100-904-581	KB-30S-SUS304	Stainless Steel (SUS304)	Satin	As Above	As Above	As Above	18	40	400
✓	3D	100-904-580	KB-30M-SUS304		Polished					40	400
✓	3D	100-904-583	KB-50S-SUS304		Satin	50	22	45	26	30	300
✓	3D	100-904-582	KB-50M-SUS304		Polished					30	300
✓	3D	100-904-585	KB-70S-SUS304		Satin	70	22,5	65	33	30	300
✓	3D	100-904-584	KB-70M-SUS304		Polished					30	300
✓	3D	100-904-587	KB-90S-SUS304		Satin	90	23	85	40	20	200
✓	3D	100-904-586	KB-90M-SUS304		Polished					20	200

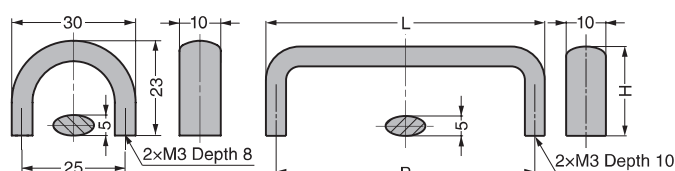
STAINLESS STEEL HANDLE DS-SUS304

SUS



[Parts Included]

● Truss head screw M3 × 28 (SUS)



DS-30

DS-50, DS-70, DS-90

RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P	Weight (g)	Box (pcs)	Carton (pcs)
✓	3D	100-904-573	DS-30S-SUS304	Stainless Steel (SUS304)	Satin	As Above	As Above	As Above	15	40	400
✓	3D	100-904-572	DS-30M-SUS304		Polished					40	400
✓	3D	100-904-575	DS-50S-SUS304		Satin	50	22	45	22	30	300
✓	3D	100-904-574	DS-50M-SUS304		Polished					30	300
✓	3D	100-904-577	DS-70S-SUS304		Satin	70	22,5	65	28	30	300
✓	3D	100-904-576	DS-70M-SUS304		Polished					30	300
✓	3D	100-904-579	DS-90S-SUS304		Satin	90	23	85	35	20	200
✓	3D	100-904-578	DS-90M-SUS304		Polished					20	200

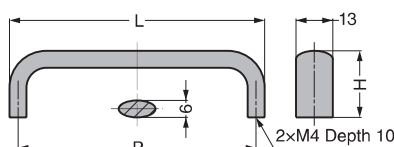
STAINLESS STEEL HANDLE DL-SUS304

SUS



[Parts Included]

● Truss head screw M4 × 28 (SUS)



RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P	Weight (g)	Box (pcs)	Carton (pcs)
✓	3D	100-904-563	DL-70S-SUS304	Stainless Steel (SUS304)	Satin	70	23	64	44	20	200
✓	3D	100-904-562	DL-70M-SUS304		Polished					20	200
✓	3D	100-904-565	DL-90S-SUS304		Satin	90	23,5	84	55	20	200
✓	3D	100-904-564	DL-90M-SUS304		Polished					20	200
✓	3D	100-904-567	DL-110S-SUS304		Satin	110	24	104	65	15	150
✓	3D	100-904-566	DL-110M-SUS304		Polished					15	150
✓	3D	100-904-569	DL-130S-SUS304		Satin	130	24,5	124	75	15	150
✓	3D	100-904-568	DL-130M-SUS304		Polished					15	150
✓	3D	100-904-571	DL-150S-SUS304		Satin	150	25	144	86	15	150
✓	3D	100-904-570	DL-150M-SUS304		Polished					15	150

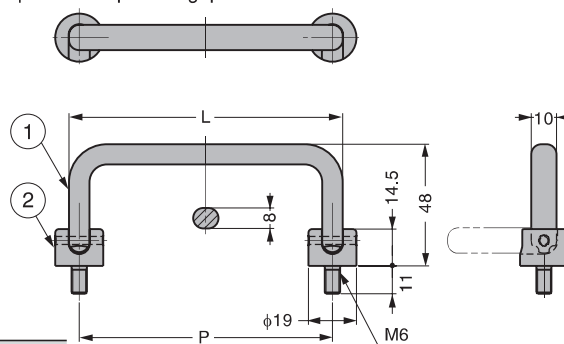
FOLDING HANDLE HK



TEST METHOD 1



- 90-degree folding handle.
- Handle clicks into open and closed position.
- Oval profile for optimum grip.



LARGE
HANDLES

HANDLES
(FRONT
SCREW
MOUNT)

**HANDLES
(BACK
SCREW
MOUNT)**

RECESSED PULLS

PULLS & KNOBS

LATCH HANDLES

[Applications]

- Storage handles for various kinds of equipment, etc.

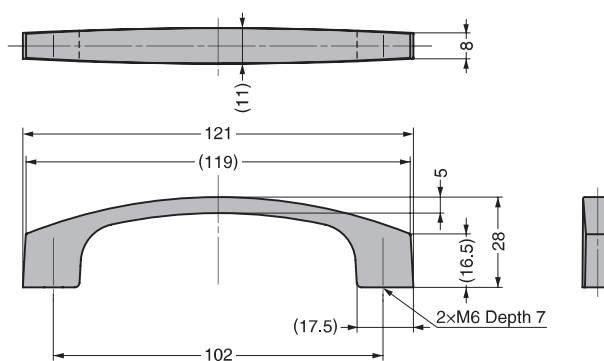
[Parts Included]

- Toothed washer size 6 (SUS)
- Hexagon nut for M6 (SUS)

RoHS	CAD	Item Code	Item Name	L	P	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
		100-010-011	HK-80	88	80	490	50	125	10	100
		100-010-012	HK-100	108	100			136	10	100
		100-010-013	HK-120	128	120			146	10	100

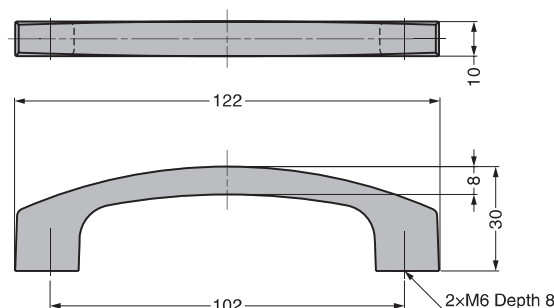
No.	Part Name	Material	Finish
①	Handle	Stainless Steel (SUS304)	Polished
②	Base		

HANDLE SAZ-121CR



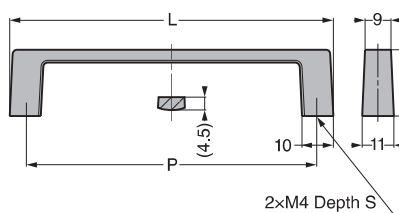
RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
		100-010-105	SAZ-121CR	Zinc Alloy (ZDC)	Chrome	63	50	200

HANDLE SAZ-122



RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
		100-019-790	SAZ-122	Zinc Alloy (ZDC)	Chrome	85	1	—

HANDLE 936



[Remarks]

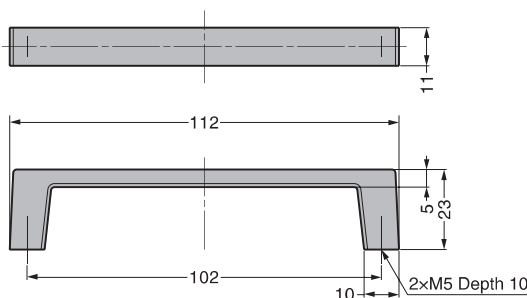
- Screws are not included in nickel finish.

[Parts Included]

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

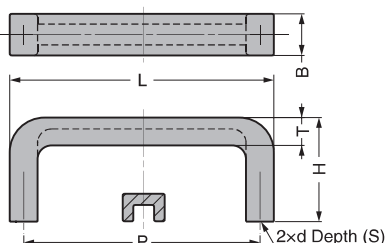
RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	S	Weight (g)	Box (pcs)	Carton (pcs)
—	3D	100-010-101	936-55-SCR	Zinc Alloy (ZDC)	Satin Chrome	66.5	55	8	40	50	200
3D	3D	100-019-096	936-55-SNI		Nickel					50	300
3D	3D	100-010-003	936-100-DC		Dull Chrome + Enamel Finish/Clear	112	100.5	10	52	50	200
3D	3D	100-019-127	936-100-SNI		Nickel					50	200

HANDLE 937-102SCR



RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
3D	3D	100-019-520	937-102SCR	Zinc Alloy (ZDC)	Satin Chrome	50	—	1

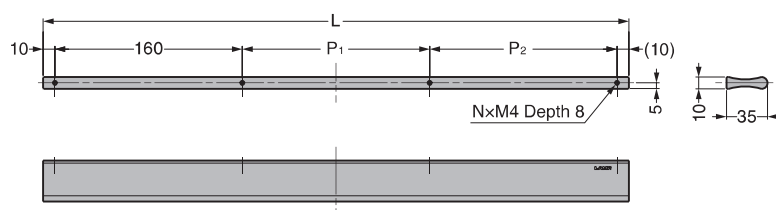
HANDLE AKH



- Simple design allows for harmonising with various kinds of equipment.

RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	B	T	P	d	S	Weight (g)	Box (pcs)	Carton (pcs)
		100-019-803	AKH-76	Zinc Alloy (ZDC)	Satin Chrome	76	30	12	8	68	M5	8	55	30	300
		100-019-799	AKH-108			108	30	14	8	100	80		10	240	
		100-019-802	AKH-120			120	40	16	10	110	130		1	—	
		100-019-801	AKH-130			130	40	16	10	120	M6	145	—	1	
		100-010-575	AKH-200			200	50	18	12	188	M8	10	250	10	—

PULL AOT35



- Smooth and beautiful appearance.

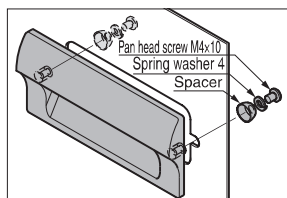
RoHS	CAD	Item Code	Item Name	Material	Finish	L	P ₁	P ₂	N	Weight (g)	Box (pcs)	Carton (pcs)
3D	3D	100-012-523	AOT35-180	Aluminium Alloy	Anodised	180	—	—	2	129	100	—
3D	3D	100-012-524	AOT35-340			340	160	—	3	243	50	—
3D	3D	100-012-525	AOT35-500			500	160	160	4	358	30	—

RECESSED PULL **HH-JS** Screw Mount

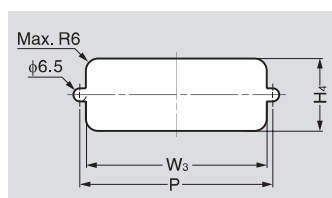
[Parts Included]

- Pan head screw M4 x 10
- Spring washer 4

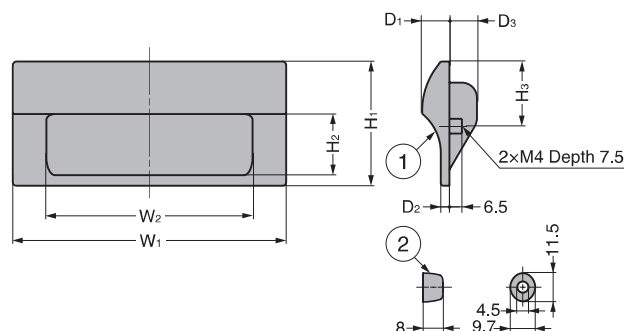
[How to Install]



[Cut Out Dimensions]



Designed to install by pinching the mounting panel with supplied spacers, spring washers and screws.



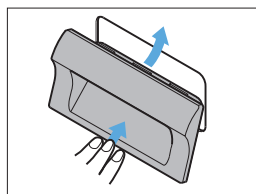
No.	Part Name	Material	Finish / Colour
①	Body	ABS + PC	Black, Ivory
②	Spacer	Steel	Clear Zinc Chromate (Trivalent)

RoHS	CAD	Item Code	Item Name	Colour	W ₁	W ₂	H ₁	H ₂	H ₃	D ₁	D ₂	D ₃	P	W ₃	H ₄	Door Thickness	Weight (g)	Box (pcs)	Carton (pcs)
		100-024-573	HH-JS70-BL	Black	70	43	38	17	19	10.5	3	9	58	48	25	0.5~3.2	20	10	200
		100-024-574	HH-JS70-IV	Ivory													20	10	200
		100-024-575	HH-JS90-BL	Black	90	63	44	21.5	22	11	78	68	31	25	10		200		
		100-024-576	HH-JS90-IV	Ivory										25	10		200		
		100-024-577	HH-JS110-BL	Black	110	82	50	24.4	26	3.5	11	96	90	36	38		10	200	
		100-024-578	HH-JS110-IV	Ivory											34		10	200	
		100-024-579	HH-JS140-BL	Black	140	109	64	34	33	11.5	126	116	48	56	10		200		
		100-024-580	HH-JS140-IV	Ivory										56	10		200		

RECESSED PULL **HH-JW** Quick Installation

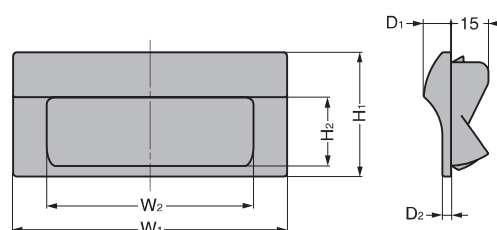
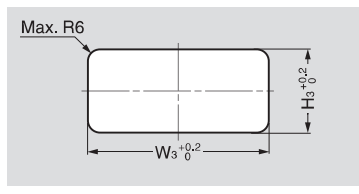
● Easy installation by snap-in.

[How to Install]



One-touch installation.

[Cut Out Dimensions]



[Hole Dimensions]

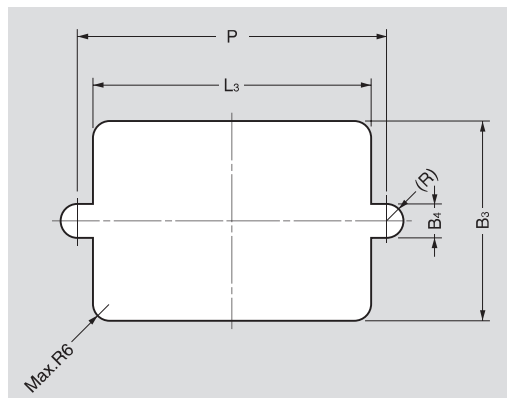
Item Name	W3	H3			
		Board Thickness 0.8	Board Thickness 1.0~1.2	Board Thickness 1.5~2.0	Board Thickness 2.3
HH-JW70	46	28.7	29	29.4	30.8
HH-JW90	66	34.7	35	35.4	36.8
HH-JW110	88	40.7	41	41.4	42.8
HH-JW140	114	54.7	55	55.4	56.8

RoHS	CAD	Item Code	Item Name	Material	Colour	W ₁	W ₂	H ₁	H ₂	D ₁	D ₂	Weight (g)	Box (pcs)	Carton (pcs)
		100-024-581	HH-JW70-BL	ABS + PC	Black	70	43	38	18.5	10.5	3	14	10	200
		100-024-582	HH-JW70-IV		Ivory							14	10	200
		100-024-583	HH-JW90-BL		Black	90	63	44	22.9	11		21	10	200
		100-024-584	HH-JW90-IV		Ivory							21	10	200
		100-024-585	HH-JW110-BL		Black	110	83	50	26.8	11.5	3.5	35	10	200
		100-024-586	HH-JW110-IV		Ivory							35	10	200
		100-024-587	HH-JW140-BL		Black	140	109	64	37.8			53	10	200
		100-024-588	HH-JW140-IV		Ivory							54	10	200

RECESSED PULL HH-P SEMI Compliance



[Cut Out Dimensions]



- Rounded design allows for easy gripping and handling with gloved hand (compliant with SEMI standard, SEMI S8-0308).
- Clear body suitable for transparent door such as acrylic.
- Lead-free PVC material with excellent weather and chemical resistance.

[Applications]

- Semiconductor manufacturing equipment and liquid crystal manufacturing equipment, etc.

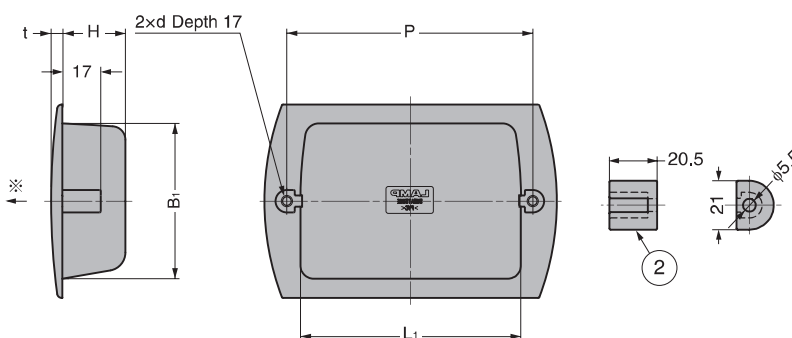
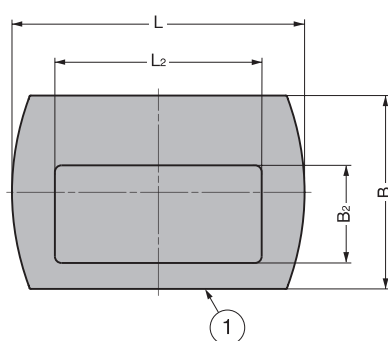
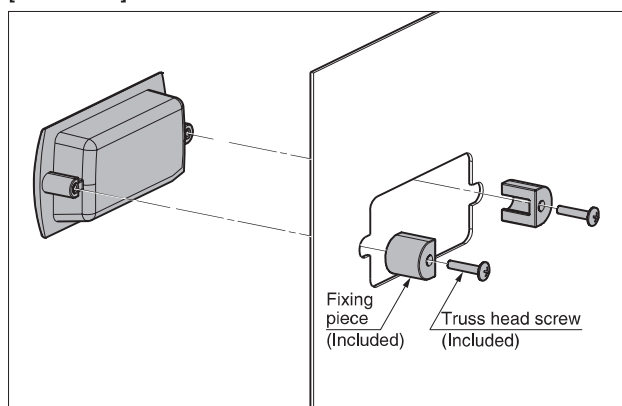
[Remarks]

- Supplied screws are suitable for panel thickness 1~5mm. Other than that, please prepare screws with threaded length above 10mm according to the panel thickness.

[Parts Included]

- Fixing piece
- Truss head screw M4 × 20 (HH-P118)
- Truss head screw M5 × 20 (HH-P130)

[Installation]



No.	Part Name	Material	Colour
①	Body	PVC	Clear
②	Fixing Piece		

RoHS	CAD	Item Code	Item Name	L	L1	L2	B	B1	B2	H	P	d	t	L3	B3	B4	Board Thickness	Load Capacity N※	Load Capacity kgf※	Weight (g)	Box (pcs)	Carton (pcs)
✓	3D	100-021-824	HH-P118	118	93	90	58	47	25.5	21.5	104	M4	4	95	48	11	1~11	312	31.8	43	45	—
✓	3D	100-013-957	HH-P130	130	98	92	86	69	43.5	28	110	M5	5	99	71	12	1~11	460	47	100	30	—

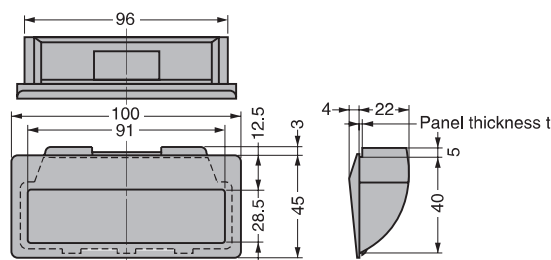
Load capacity is for the direction of ※ marked on above drawings.

RECESSED PULL AT-100 Quick Installation

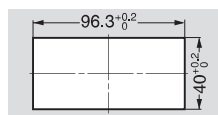
NSF



● Easy installation by snap-in.



[Cut Out Dimensions]



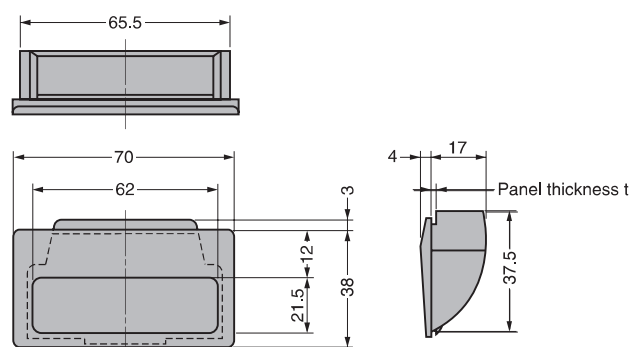
RoHS	CAD	Item Code	Item Name	Material	Colour	Panel Thickness t	Weight (g)	Box (pcs)	Carton (pcs)
CE	3D	100-017-625	AT-100-I	ABS	Ivory	0.8	23	250	—
CE	3D	100-017-626	AT-100-BR		Brown			250	—
CE	3D	100-019-414	AT-100-B		Black			250	—
CE	3D	100-013-211	AT-100-10I		Ivory	1.0	22.6	250	—
CE	3D	100-013-212	AT-100-10BR		Brown			250	—
CE	3D	100-013-213	AT-100-10B		Black			250	—
CE	3D	100-013-214	AT-100-12I		Ivory	1.2	22.4	250	—
CE	3D	100-013-215	AT-100-12BR		Brown			250	—
CE	3D	100-013-216	AT-100-12B		Black			250	—
CE	3D	100-013-217	AT-100-16I		Ivory	1.6	22.3	500	—
CE	3D	100-013-218	AT-100-16BR		Brown			250	—
CE	3D	100-013-219	AT-100-16B		Black			250	—

RECESSED PULL AT-70 Quick Installation

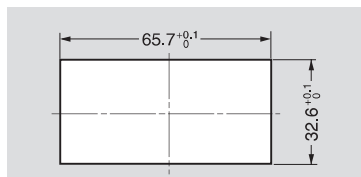
NSF



● Easy installation by snap-in.



[Cut Out Dimensions]

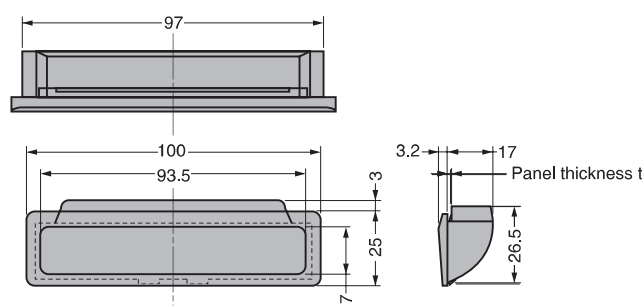


RoHS	CAD	Item Code	Item Name	Material	Colour	Panel Thickness t	Weight (g)	Box (pcs)	Carton (pcs)	
		100-015-001	AT-70-I	ABS	Ivory	0.8	12	550	—	
		100-017-627	AT-70-BR		Brown			550	—	
		100-015-000	AT-70-B		Black			550	—	
		100-013-220	AT-70-12I		Ivory	1.2	12,8	1100	—	
		100-013-221	AT-70-12BR		Brown			1100	—	
		100-013-222	AT-70-12B		Black			1100	—	
		100-013-223	AT-70-16I		Ivory	1.6		1100	—	
		100-013-224	AT-70-16BR		Brown			1100	—	
		100-013-225	AT-70-16B		Black			1100	—	

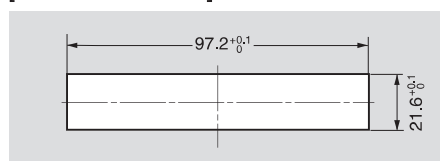
RECESSED PULL ATS-100 Quick Installation



● Easy installation by snap-in.



[Cut Out Dimensions]



RoHS	CAD	Item Code	Item Name	Material	Colour	Panel Thickness t	Weight (g)	Box (pcs)	Carton (pcs)
		100-019-180	ATS-100-I	ABS	Ivory	0.8	12.5	550	—
		100-015-002	ATS-100-BR		Brown			50	—
		100-019-476	ATS-100-B		Black			550	—
		100-013-226	ATS-100-16I		Ivory	1.6	12	1100	—
		100-013-227	ATS-100-16BR		Brown			1100	—
		100-013-228	ATS-100-16B		Black			1100	—

RECESSED PULL HH-PS99



● Designed to install from the back side of cabinet with screws (see below). Pull and screws do not appear on the panel surface for clean appearance.

● Finger hooking part inclined upwards allows for easy holding.

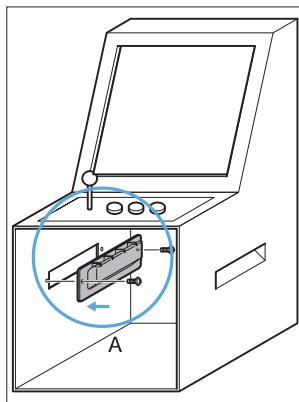
[Applications]

● Amusement equipment, PA (for carrying music apparatus), and furniture, etc.

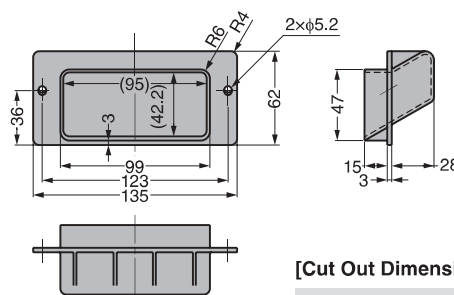
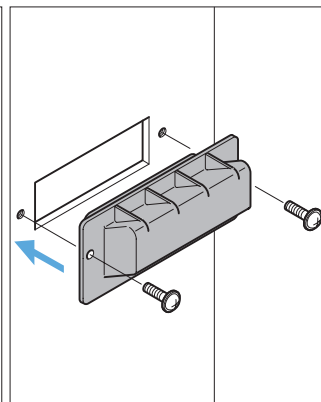
[Parts Included]

● Binding head tapping screw 4 x 12

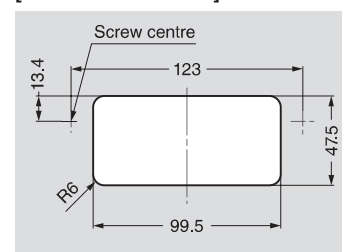
[Application Example]



[Enlarged View of A]



[Cut Out Dimensions]



RoHS	CAD	Item Code	Item Name	Material	Colour	Panel Thickness	Weight (g)	Box (pcs)	Carton (pcs)
—		100-010-343	HH-PS99	PP	Black	15	41	200	—

RECESSED PULL WITH VENTILATOR UTA-105

SUS

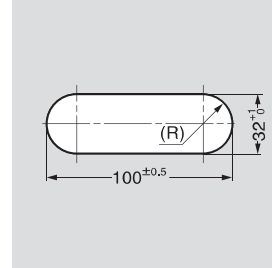


- With finger hooking part.
- With ventilator function.
- Ventilating area is invisible from the front.
- Excellent chemical resistance.

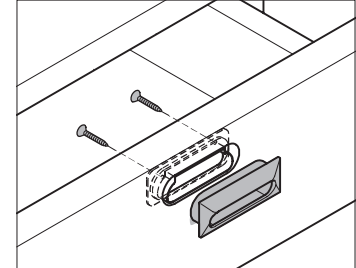
[Parts Included]

- Countersunk head tapping screw 4 × 20 (SUS)

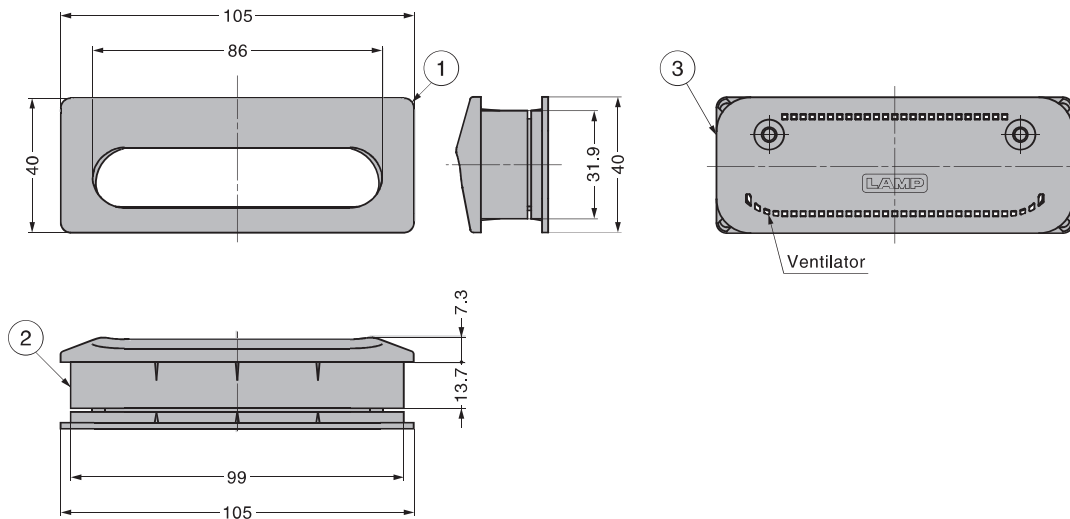
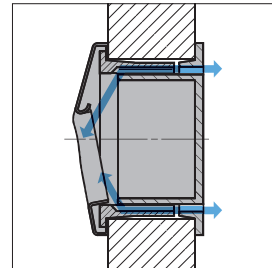
[Cut Out Dimensions]



[Installation]



[Air Flow]



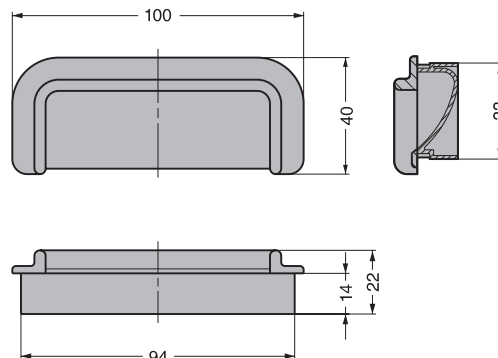
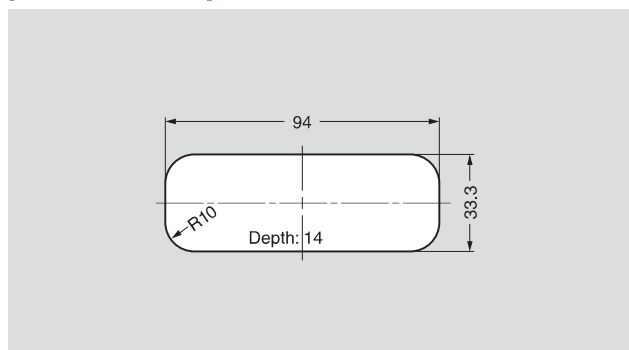
No.	Material	Finish
①	Stainless Steel (SUS304)	Satin
②	ABS	—
③		

RoHS	CAD	Item Code	Item Name	Colour	Max. Exhaust Area mm ²	Door Thickness	Weight (g)	Box (pcs)	Carton (pcs)
		100-026-733	UTA-105BL	Black	136	18-25	40	15	150
		100-026-734	UTA-105GR	Light Grey				15	150
		100-026-735	UTA-105IV	Ivory				15	150

RECESSED PULL UP-600



[Cut Out Dimensions]



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

RECESSED PULL XLA-HHA



- Two types of total lengths available: 300mm and 600mm.
- Can be cut into appropriate length.
- Beautiful design based on lines and faces.
- Size can also be made to order. For further details, please contact local representatives.

[Remarks]

- For lateral use, check if the door is strong enough before use.
- Use 4 brackets (sold separately) for one pull.

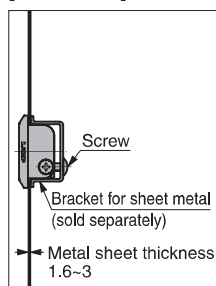
[Parts Included]

- Truss head screw M4 x 10 (SUS)

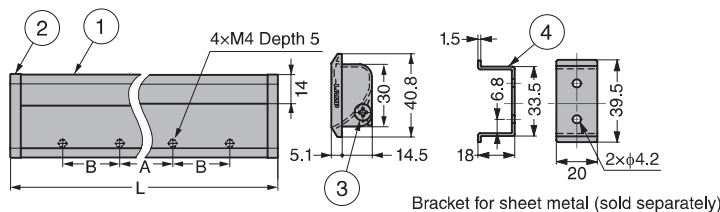
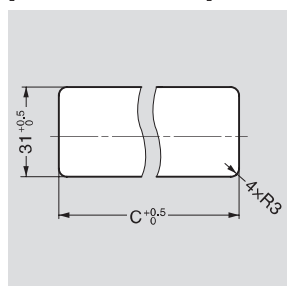
[Sold Separately]

- Bracket for sheet metal XLA-HHA40B

[Installation]



[Cut Out Dimensions]



No.	Part Name	Material	Finish
①	Body	Aluminium Alloy	Silver Anodised
②	Cover	Zinc Alloy (ZDC)	Chrome
③	Countersunk Head Screw M4 x 10	Stainless Steel	—
④	Bracket for Sheet Metal (Sold Separately)	Stainless Steel (SUS430)	Barrel Polished

[Body]

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

[Bracket for Sheet Metal] Sold Separately

RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
		100-010-189	XLA-HHA40B	330	500	—

LARGE RECESSED PULL HH-M

SUS



- Large type allows for easy handling with glove on.
- Handlebar does not protrude from the face of the handle.
- All stainless steel pull with handlebar length 200mm and 400mm.

[Applications]

- Special vehicles, containers, large doors and ships, etc.

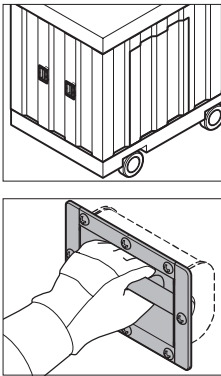
[Remarks]

- Load capacity represents the strength of the pull itself. Actual load capacity may vary depending on wall and cabinet materials. Please install the pull at places with sufficient strength or places reinforced.

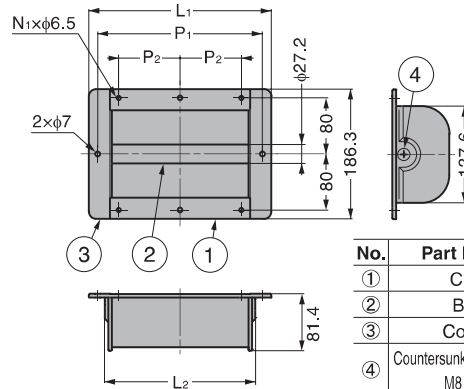
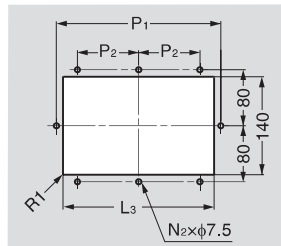
[Parts Included]

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

[Application Example]



[Cut Out Dimensions]



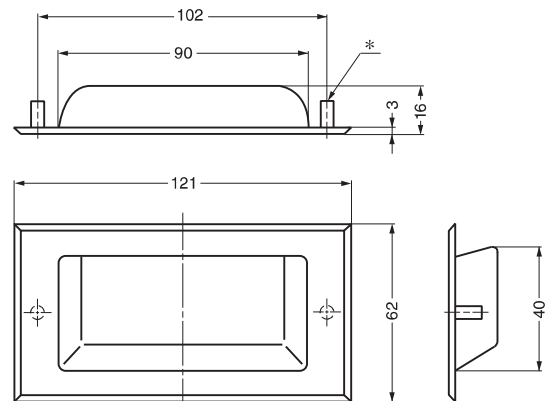
No.	Part Name	Material	Finish
①	Cup	Stainless Steel (SUS304)	Polished
②	Bar		
③	Cover	Stainless Steel (SCS13)	
④	Countersunk Head Screw M8 x 15	Stainless Steel	—

※SCS13 is equivalent of SUS304.

RoHS	CAD	Item Code	Item Name	L1	L2	L3	P1	P2	N1	Holes N2	Load Capacity N	Load Capacity kgf	Weight (kg)	Box (pcs)	Carton (pcs)
✓	3D	100-012-306	HH-M200	260	215	218	235	87.5	6	8	4500	459	2.6	1	4
✓	3D	100-012-305	HH-M400	460	415	418	435	125	8	10	2200	224	3.7	1	2

RECESSED PULL ES-611

NSF SUS



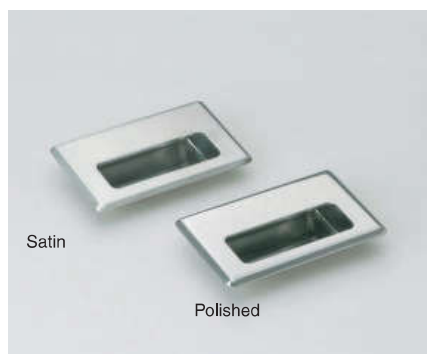
ET
(*Male Studs / Copper
M5x0.8 Depth 10)



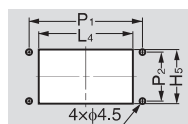
IT
(*Female Studs / Copper
M4x0.7 Depth 6)

RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
—	—	100-017-659	ES-611/ET	Stainless Steel (SUS304)	Satin	68	20	200
—	—	100-012-957	ES-611/IT			60		

STAINLESS STEEL RECESSED PULL HH



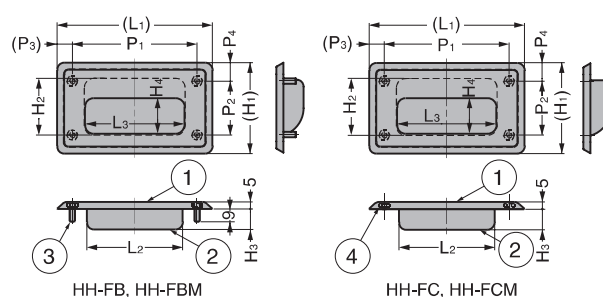
[Cut Out Dimensions]



- Simple design.
- Satin and polished finish available.
- HH-FB-1, HH-FC-1, HH-FB-1M and HH-FC-1M are compliant with SEMI standard (SEMI S8-0308).

[Parts Included]

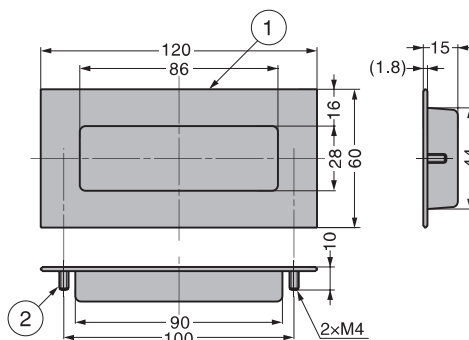
- Only for M4 bolt type: Hexagon nut M4 (SUS), washer 4, spring washer 4



No.	Part Name	Material	Finish
①	Front Plate	Stainless Steel (SUS304)	Satin, Polished
②	Back Cover		Barrel Polished
③	Hexagon Head Bolt M4 x 10		Plain
④	Hexagon Nut M4		

RoHS	CAD	Item Code	Item Name	Bolt/Nut	Material	Finish	L1	L2	L3	L4	H1	H2	H3	H4	H5	P1	P2	P3	P4	Weight (g)	Box (pcs)	Carton (pcs)
		100-010-090	HH-FB-1	M4 Bolt	Stainless Steel (SUS304)	Satin	138	96	95	99	88	62	21	35	64	110	65	14	11.5	170	10	50
		100-010-091	HH-FC-1	M4 Nut			109.5	71	70	73	64	40	14.5	25	42	88	38	10.75	13	100	10	100
		100-010-092	HH-FB-2	M4 Bolt			94	61	60	63	60	43	12	25	45	76	32	9	14	80	10	100
		100-010-093	HH-FC-2	M4 Nut																	10	100
		100-010-094	HH-FB-3	M4 Bolt																	10	100
		100-010-095	HH-FC-3	M4 Nut																	10	100
		100-012-104	HH-FB-1M	M4 Bolt		Polished	138	96	95	99	88	62	21	35	64	110	65	14	11.5	170	10	50
		100-012-105	HH-FC-1M	M4 Nut			109.5	71	70	73	64	40	14.5	25	42	88	38	10.75	13	100	10	100
		100-012-106	HH-FB-2M	M4 Bolt			94	61	60	63	60	43	12	25	45	76	32	9	14	80	10	100
		100-012-107	HH-FC-2M	M4 Nut																	10	100
		100-012-108	HH-FB-3M	M4 Bolt																	10	100
		100-012-109	HH-FC-3M	M4 Nut																	10	100

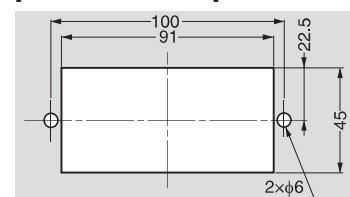
STAINLESS STEEL RECESSED PULL HH-AS2



[Parts Included]

- M4 nut, washer 4 (both clear zinc chromate)

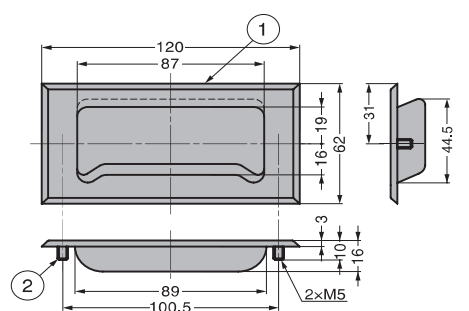
[Cut Out Dimensions]



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

RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
		100-019-030	HH-AS2	50	12	240

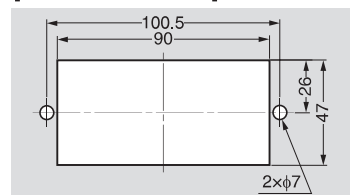
STAINLESS STEEL RECESSED PULL HH-AS3



[Parts Included]

- M5 nut (clear zinc chromate)

[Cut Out Dimensions]



No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Thread Part	Steel	Copper Plating

RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
—		100-010-008	HH-AS3	50	12	240

STAINLESS STEEL RECESSED PULL HH-KL160 SEMI Compliance



- All-metal material suitable for equipment with electromagnetic shielding requirements.
- Compliant with SEMI standard (SEMI S8-0600).
- Use optional spacer when installing to sheet metal.

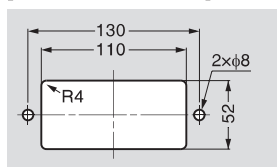
[Parts Included]

- Truss head screw M4 x 8 (SUS)

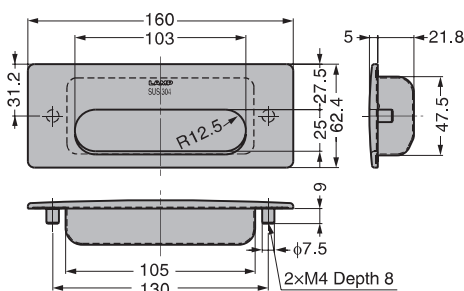
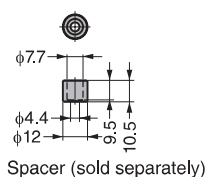
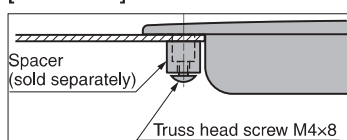
[Sold Separately]

- Spacer BSP-8

[Cut Out Dimensions]



[Installation]



[Body]

RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
		100-012-959	HH-KL160	260	8	48

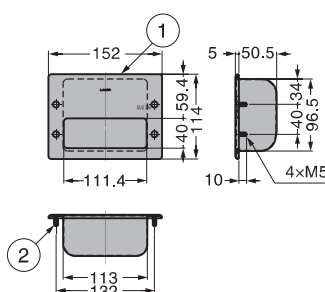
No.	Part Name	Material	Finish
①	Pull	Stainless Steel (SCS13)	Satin
②	Cup	Stainless Steel (SUS304)	

※SCS13 is equivalent of SUS304.

[Spacer] Sold Separately

RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
		100-019-635	BSP-8	Steel (SUM)	Coloured Zinc Chromate	6	—	4000

STAINLESS STEEL RECESSED PULL HH-KP150 SEMI Compliance

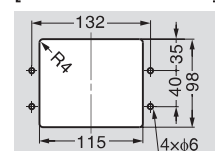


- All-metal material suitable for equipment with electromagnetic shielding requirements.
- Compliant with SEMI standard (SEMI S8-0600).

[Parts Included]

- M5 Hexagon nut (SUS)

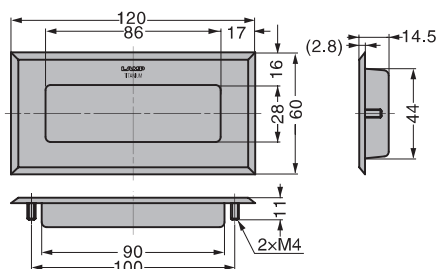
[Cut Out Dimensions]



No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Thread Part	Steel	Copper Plating

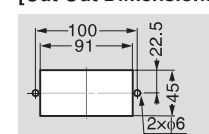
RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
		100-012-960	HH-KP150	390	5	50

TITANIUM RECESSED PULL HH-AS2-TI



- Ideal for places with light weight and rust resistance requirements.
- Titanium pull hardly causes metal allergy.
- Titanium mounting screws also available.

[Cut Out Dimensions]

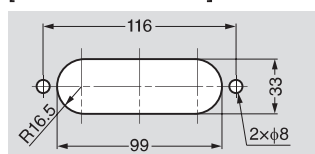


RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
—		100-010-582	HH-AS2-TI	Titanium	Blast	30	12	240

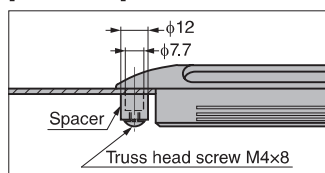
RECESSED PULL UTZ-130



[Cut Out Dimensions]

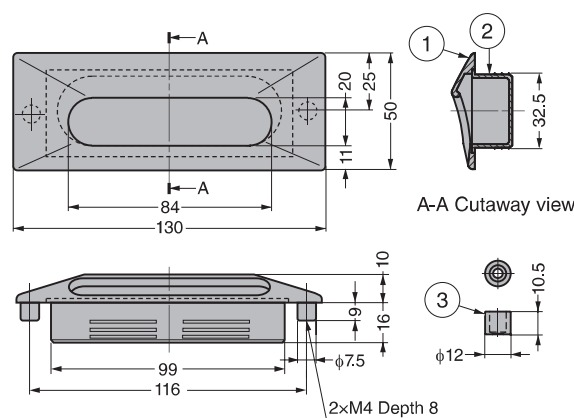


[Installation]



[Parts Included]

- Truss head screw M4 × 8
- Spacer



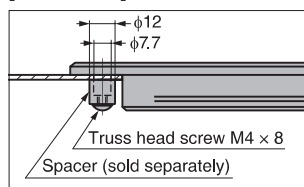
No.	Part Name	Material	Finish/Colour
①	Body	Zinc Alloy (ZDC)	Chrome, Satin Nickel, Bronze
②	Cup	Plastic (HIPS)	Black
③	Spacer	Steel (SUM)	Coloured Zinc Chromate

RoHS	CAD	Item Code	Item Name	Finish	Weight (g)	Box (pcs)	Carton (pcs)
✓	3D	100-010-225	UTZ-130WB	Satin Nickel	105	10	60
✓	3D	100-010-226	UTZ-130CR	Chrome		10	60
✓	3D	100-010-717	UTZ-130SCP	Bronze		10	60

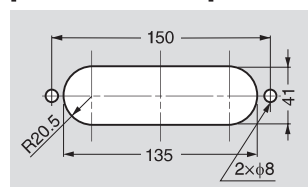
RECESSED PULL SD-160



[Installation]



[Cut Out Dimensions]



[Parts Included]

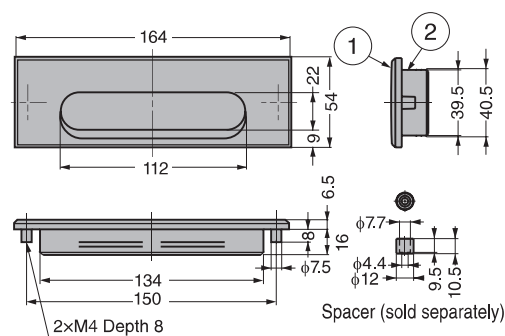
- Truss head screw M4 × 28 (for wood)

[Sold Separately]

- Spacer BSP-8

[Recommended Screws]

- Truss head screw M4 × 8



[Body]

RoHS	CAD	Item Code	Item Name	Finish	Weight (g)	Box (pcs)	Carton (pcs)
✓	3D	100-010-194	SD-160WB	White Bronze Plating	184	10	60
✓	3D	100-010-181	SD-160CR	Chrome	176	10	60

[Spacer] Sold Separately

RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
✓	3D	100-019-635	BSP-8	Steel (SUM)	Coloured Zinc Chromate	6	—	4000

No.	Part Name	Material	Finish / Colour
①	Body	Zinc Alloy (ZDC)	White Bronze Plating, Chrome
②	Cup	ABS	Black

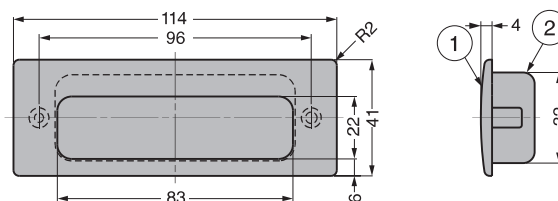
STAINLESS STEEL RECESSED PULL HH-KS114

SUS316

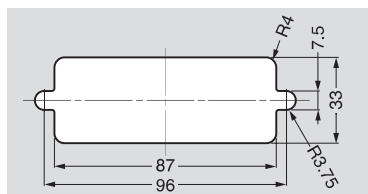


[Parts Included]

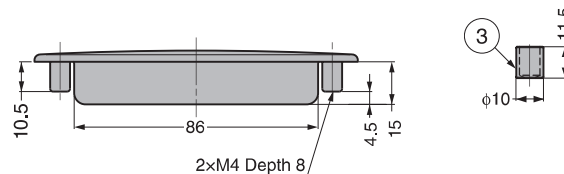
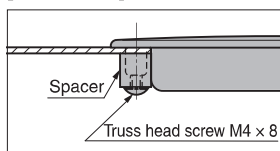
- Spacer
- For sheet metal $t = 2$: truss head tapping screw M4 $\times$ 8 (SUS)
- For wood panel $t = 20$: truss head tapping screw M4 $\times$ 15 (SUS)



[Cut Out Dimensions]



[Installation]



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

※SCS14 is equivalent of SUS316.

RoHS	CAD	Item Code	Item Name	Finish	Weight (g)	Box (pcs)	Carton (pcs)
		100-010-583	HH-KS114M	Polished	110	10	60
		100-010-584	HH-KS114S	Satin		10	60

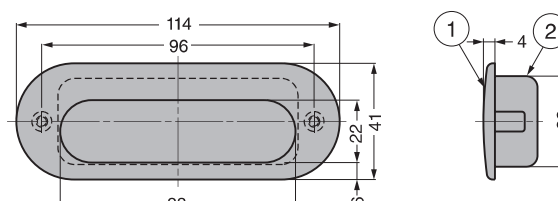
STAINLESS STEEL RECESSED PULL HH-DS114

SUS316

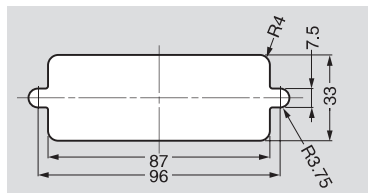


[Parts Included]

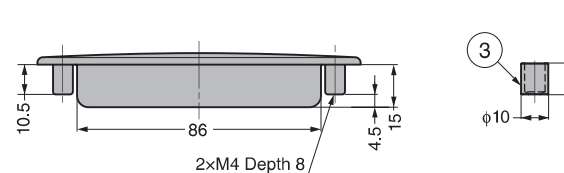
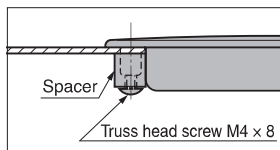
- Spacer
- For sheet metal $t = 2$: truss head tapping screw M4 $\times$ 8 (SUS)
- For wood panel $t = 20$: truss head tapping screw M4 $\times$ 15 (SUS)



[Cut Out Dimensions]



[Installation]



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

※SCS14 is equivalent of SUS316.

RoHS	CAD	Item Code	Item Name	Finish	Weight (g)	Box (pcs)	Carton (pcs)
		100-010-585	HH-DS114M	Polished	105	10	60
		100-010-586	HH-DS114S	Satin		10	60

STAINLESS STEEL RECESSED PULL HH-K

NSF SUS316

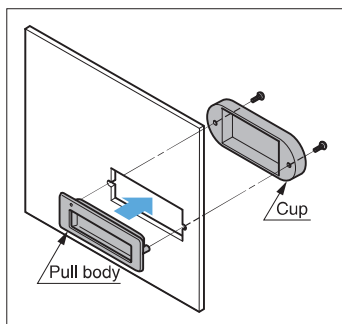


- Designed to install by pinching the door with body and cup. (Sheet metal thickness: Max. 2mm).

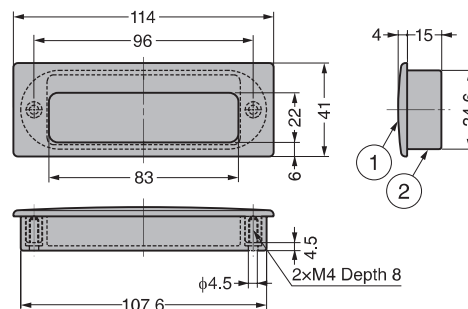
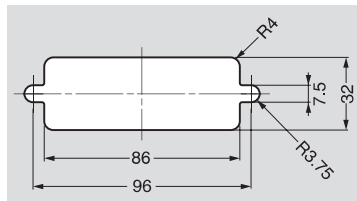
[Parts Included]

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

[How to Install]



[Cut Out Dimensions]



No.	Part Name	Material	Finish / Colour
①	Body	Stainless Steel (SCS14)	Polished
②	Cup	ABS	Black

※SCS14 is equivalent of SUS316.

RoHS	CAD	Item Code	Item Name	Door Thickness	Weight (g)	Box (pcs)	Carton (pcs)
✓	3D	100-012-952	HH-K	Max. 2	90	10	60

STAINLESS STEEL RECESSED PULL HH-D

NSF SUS316

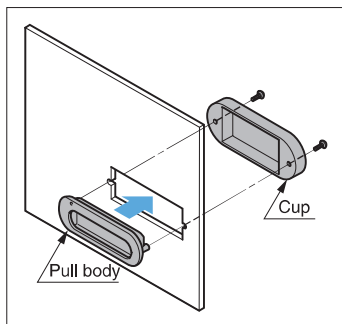


- Designed to install by pinching the door with body and cup. (Sheet metal thickness: Max. 2mm).

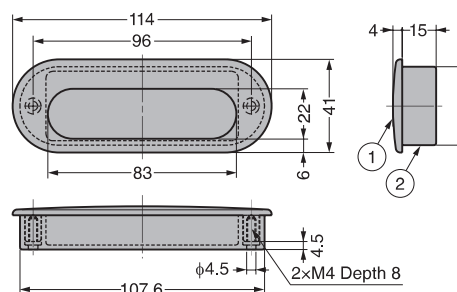
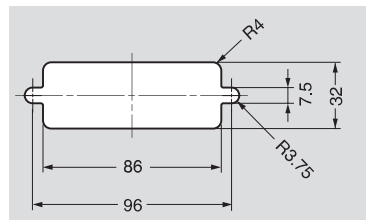
[Parts Included]

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

[How to Install]



[Cut Out Dimensions]



No.	Part Name	Material	Finish / Colour
①	Body	Stainless Steel (SCS14)	Polished
②	Cup	ABS	Black

※SCS14 is equivalent of SUS316.

RoHS	CAD	Item Code	Item Name	Door Thickness	Weight (g)	Box (pcs)	Carton (pcs)
✓	3D	100-012-951	HH-D	Max. 2	85	10	60

RECESSED PULL 5103



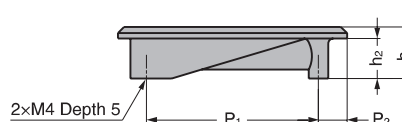
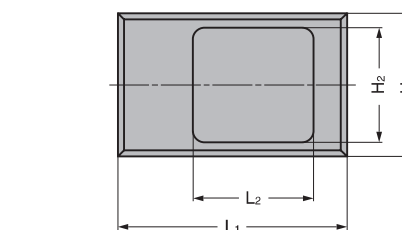
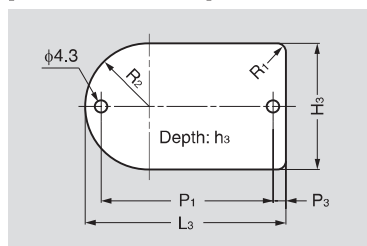
[Remarks]

- Bracket for sheet metal not included.

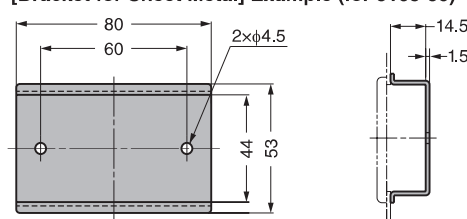
[Parts Included]

- Truss head screw M4 x 12

[Cut Out Dimensions]



[Bracket for Sheet Metal] Example (for 5103-80)



RoHS	CAD	Item Code	Item Name	Material	Finish	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 (g)	Box (pcs)	Carton (pcs)
		100-014-085	5103-55	Zinc Alloy	White Bronze	55	31.5	40	31.5	15.5	12.5	32	16	46	35	10	2	18	12.5	42	40	160
		100-014-084	5103-80	(ZDC)	Plating	80	42	50	40	18	14	60	10	70	44	4.5	3	22	14	88	20	80

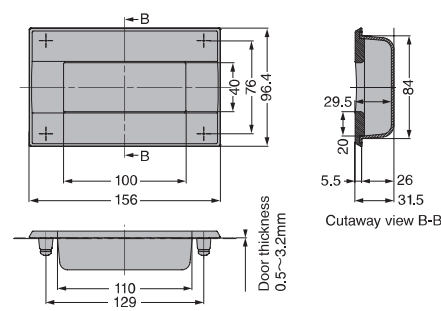
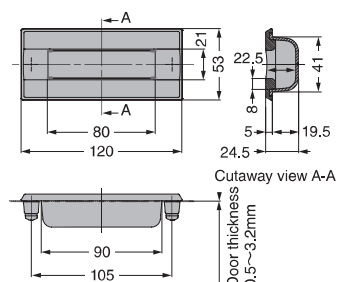
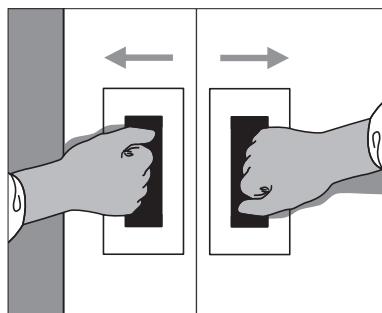
RECESSED PULL HH-UD

Under Development

SUS



- Grips on both sides allow the door to be moved in either direction.
- Solid grip interior with rounded edges for optimum comfort.
- SEMI-compliant large size (SEMI S8-0915) and mini size with clean appearance are available.



RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
		100-037-024	HH-UD120SH	Stainless steel (SCS13)/ABS+PC	Satin	-	-	-	-	-
		100-037-025	HH-UD120SM		Mirror			-	-	-
		100-037-026	HH-UD156SH		Satin			-	-	-
		100-037-027	HH-UD156SM		Mirror			-	-	-

STAINLESS STEEL TRUNK HANDLE **HCT-150** High Load Capacity

INSTRUCTION

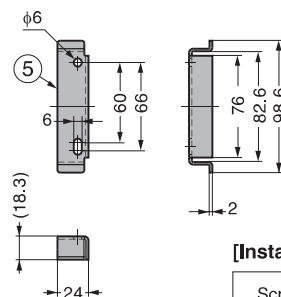
SUS316



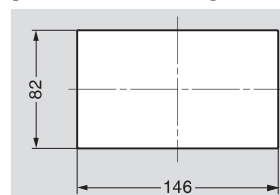
- The handle retracts automatically by a spring.

[Parts Included]

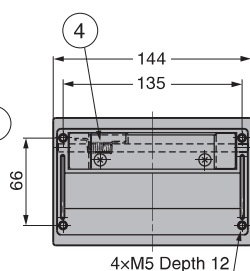
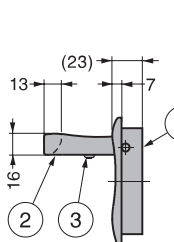
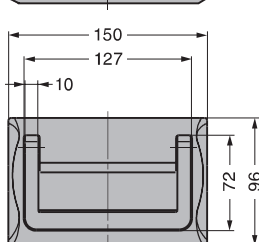
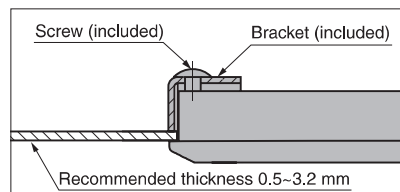
- Truss head screw M5x12 (SUS)
- Bracket for sheet metal (SUS)



[Cut Out Dimensions]



[Installation]



No.	Part Name	Material	Finish / Colour
①	Body	Stainless Steel (SCS14)	Polished
②	Handle		
③	Bumper	EPDM	Black
④	Spring	Stainless Steel (SUS316)	—
⑤	Bracket for Sheet Metal		Barrel Polished

※SCS14 is equivalent of SUS316.

RoHS	CAD	Item Code	Item Name	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
		100-017-557	HCT-150	980	100	990	1	1

TRUNK HANDLE MUD-140

TEST METHOD 1

INSTRUCTION

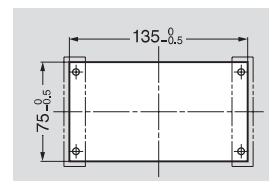


- The handle retracts automatically by a spring.

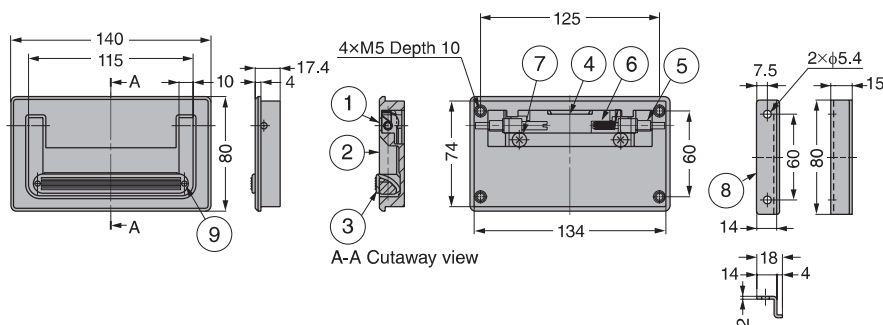
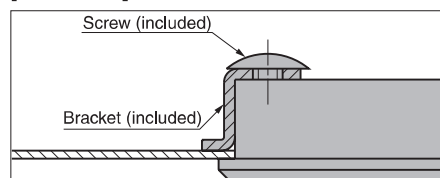
[Parts Included]

- Truss head screw M5x8
- Bracket for sheet metal

[Cut Out Dimensions]



[Installation]



No.	Part Name	Material	Finish / Colour
①	Body	Zinc Alloy (ZDC)	Chrome
②	Handle		
③	Grip	Elastomer (TPE)	Dark Blue
④	Back Cover	Steel (SPCC)	Coloured Zinc Chromate (Trivalent)
⑤	Shaft	Zinc Alloy (ZDC)	
⑥	Spring	Steel (SWP)	
⑦	Screw	Steel (SWCH)	—
⑧	Bracket	Steel (SPCC)	Coloured Zinc Chromate (Trivalent)
⑨	Screw	Stainless Steel	Black

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

TRUNK HANDLE TMU-115

TEST METHOD 1

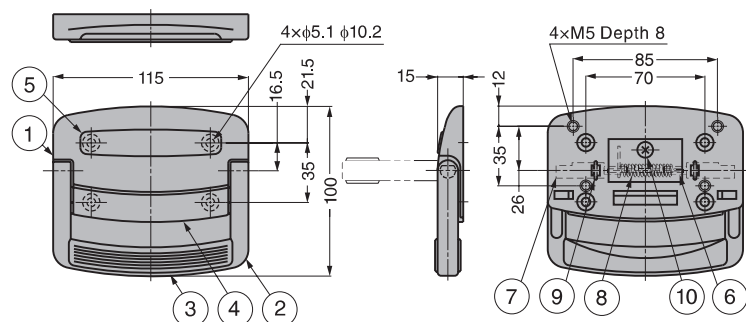
INSTRUCTION



- Both back screw mount and front screw mount is available.
- Spring loaded trunk handle.
- Small type (TMU-100) also available. For further details, please contact local representatives.

[Parts Included]

- For back screw mount: Truss head screw M5×6
- For front screw mount: Countersunk head wood screw 4.8×25 and 4.8×20



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

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

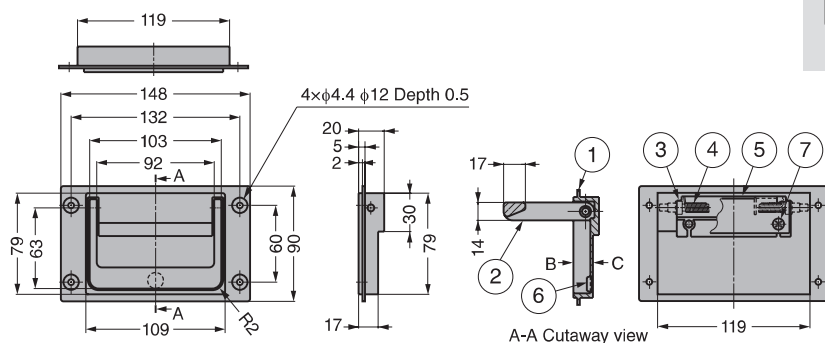
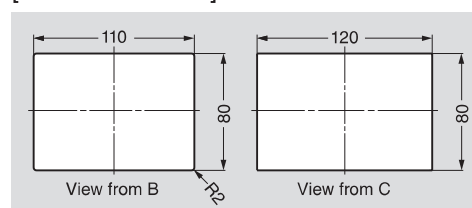
TRUNK HANDLE PT-148

TEST METHOD 1



- Spring loaded trunk handle.

[Cut Out Dimensions]



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

RoHS	CAD	Item Code	Item Name	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
		100-019-183	PT-148	490	50	645	20	—

STAINLESS STEEL RING PULL 980643

TEST
METHOD 2

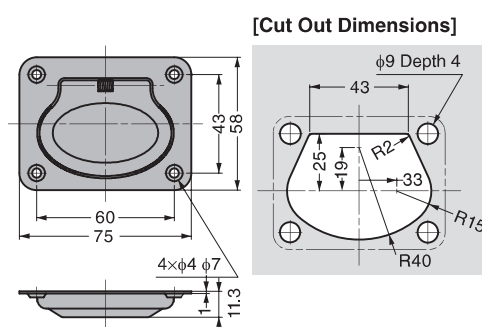
SUS



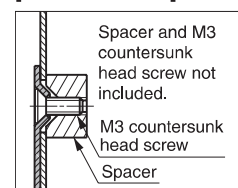
- The handle retracts automatically by a spring when not in use.

[Parts Included]

- Tapping screw 3.5 × 16 (SUS)



[For Sheet Metal]



RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
		100-011-739	980643	Stainless Steel (SUS304)	Polished	245	25	51	10	200

STAINLESS STEEL RING PULL 980641, 980642

TEST
METHOD 2

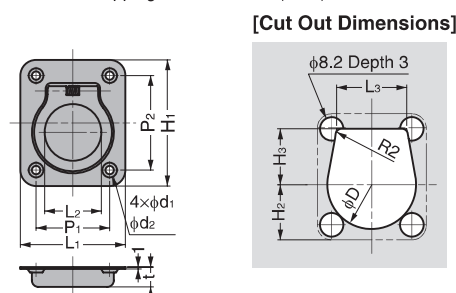
SUS



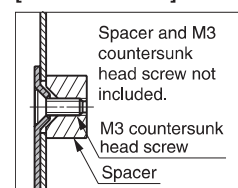
- The handle retracts automatically by a spring when not in use.

[Parts Included]

- 980641: Tapping screw 3 × 16 (SUS)
- 980642: Tapping screw 3.5 × 16 (SUS)



[For Sheet Metal]



RoHS	CAD	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 N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
		100-011-737	980641	Stainless Steel (SUS304)	Polished	38	18	24.5	44	19	19.5	31	10	28	34	4	6.2	196	20	21	10	500
		100-011-738	980642	Stainless Steel (SUS304)	Polished	50	27	25	60	25	25	41	9.5	35	45	4.4	7	245	25	36	10	200

STAINLESS STEEL RING PULL 980640

TEST
METHOD 2

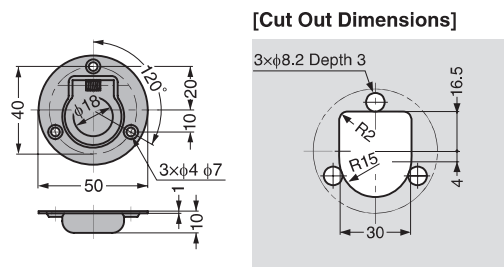
SUS



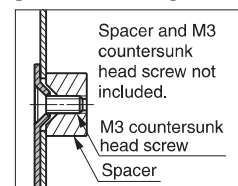
- The handle retracts automatically by a spring when not in use.

[Parts Included]

- Tapping screw 3 × 16 (SUS)



[For Sheet Metal]



RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
		100-011-740	980640	Stainless Steel (SUS304)	Polished	196	20	23	10	300

STAINLESS STEEL RING PULL 26700

SUS316

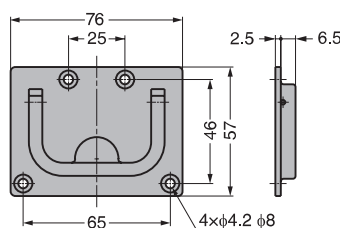


[Remarks]

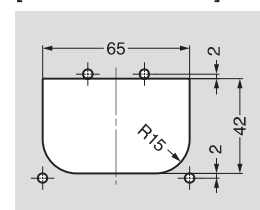
- Please install the top and bottom correctly to prevent handle from hanging out.

[Recommended Screws]

- Countersunk head tapping screw 3.5



[Cut Out Dimensions]



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

※SCS14 is equivalent of SUS316.

STAINLESS STEEL RING PULL 26901

SUS316

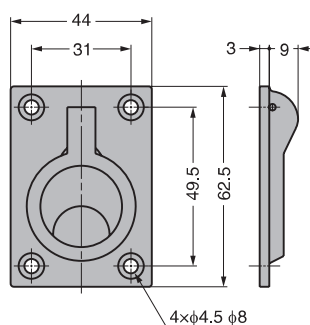


[Remarks]

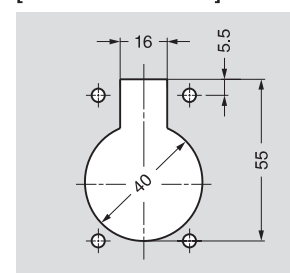
- Please install the top and bottom correctly to prevent handle from hanging out.

[Recommended Screws]

- Countersunk head tapping screw 3.5



[Cut Out Dimensions]



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

※SCS14 is equivalent of SUS316.

STAINLESS STEEL RING PULL 26900

SUS316

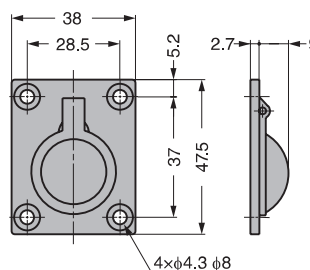


[Remarks]

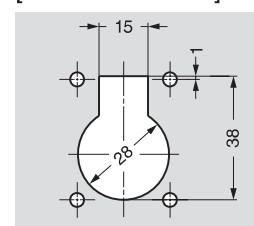
- Please install the top and bottom correctly to prevent handle from hanging out.

[Recommended Screws]

- Countersunk head tapping screw 3.5



[Cut Out Dimensions]



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

※SCS14 is equivalent of SUS316.

STAINLESS STEEL HATCH PULL ST-90, ST-115



- Ideal for use in places where projection from surface is not permitted, such as switch boards and inspection ports.
- Built-in spring prevents handle from hanging out.
- Vertical use and ceiling mount are possible.

[Applications]

- Control panels, switch boards, and inspection ports, etc.

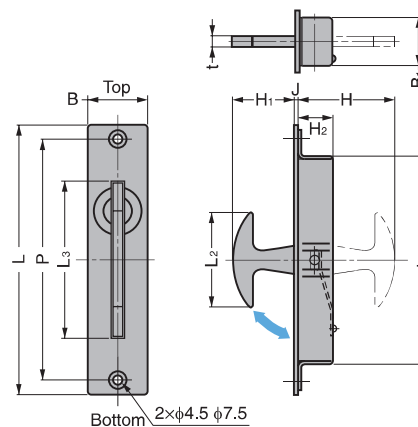
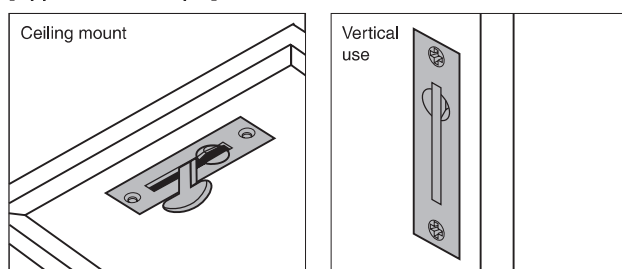
[Remarks]

- For vertical use and ceiling mount only. Do not use on the floor.
- For vertical use, please install the top and bottom correctly.

[Parts Included]

- ST-90: Countersunk head wood screw 3.5 × 22 (SUS)
- ST-115: Countersunk head wood screw 3.5 × 25 (SUS)

[Application Example]



RoHS	CAD	Item Code	Item Name	Material	Finish	L	L ₁	L ₂	L ₃	H	H ₁	H ₂	J	B	B ₁	t	P	Weight (g)	Box (pcs)	Carton (pcs)
✓	3D	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	68	30	300
–	3D	100-010-241	ST-115			115	86.2	40	67	42	26	13	2.5	25	20	4	102	102	20	200

STAINLESS STEEL HATCH PULL ST-80, ST-100



- Ideal for use in places where projection from surface is not permitted, such as switch boards and inspection ports.
- Thick and smooth handle.

[Applications]

- Control panels, switch boards, and inspection ports, etc.

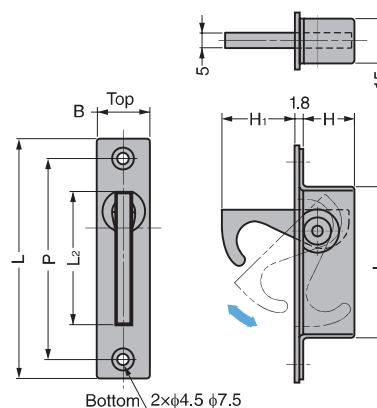
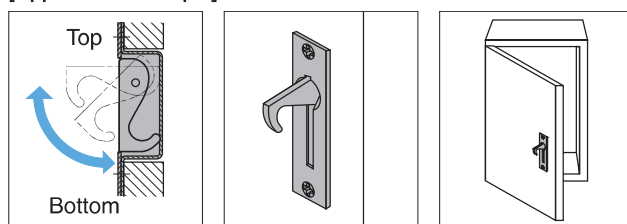
[Remarks]

- For vertical use only. Do not use on the ceiling and floor.
- Please install the top and bottom correctly.

[Parts Included]

- ST-80: Countersunk head wood screw 3.5 × 16 (SUS)
- ST-100: Countersunk head wood screw 3.5 × 20 (SUS)

[Application Example]

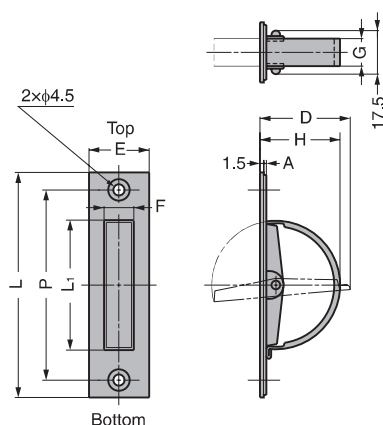


RoHS	CAD	Item Code	Item Name	Material	Finish	L	L ₁	L ₂	H	H ₁	B	P	Weight (g)	Box (pcs)	Carton (pcs)
✓	3D	100-010-244	ST-80	Stainless Steel (SUS304)	Satin	80	50	45	18	25	18	68	48	30	300
✓	3D	100-010-245	ST-100			100	63	55.2	21	32	20	85	66	20	200

STAINLESS STEEL HATCH PULL HR

TEST
METHOD 2

SUS



- Ideal for use in places where projection from surface is not permitted, such as switch boards and inspection ports.

[Applications]

- Control panels, switch boards, and inspection ports, etc.

[Remarks]

- For vertical use, please install the top and bottom correctly.

[Parts Included]

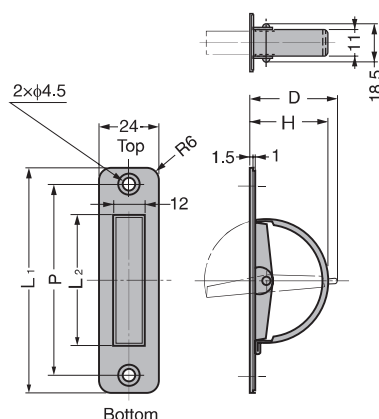
- HR-90S: Countersunk head wood screw 3.5 × 22 (SUS)
- HR-110S & HR-135S: Countersunk head wood screw 3.5 × 25 (SUS)

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

STAINLESS STEEL HATCH PULL HR-RS

TEST
METHOD 2

SUS



- Ideal for use in places where projection from surface is not permitted, such as switch boards and inspection ports.

[Applications]

- Control panels, switch boards, and inspection ports, etc.

[Remarks]

- For vertical use, please install the top and bottom correctly.

[Parts Included]

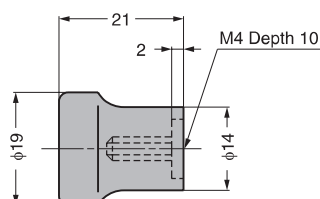
- Countersunk head wood screw 3.5 × 22 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	L ₁	L ₂	P	H	D	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
		100-019-058	HR-90RS	Stainless Steel (SUS304)	Satin	90	52	76	32	36	127	13	46	30	300
		100-019-059	HR-110RS			110	64	94	38	42	98	10	55	20	200

KNOB GD-20

[Parts Included]

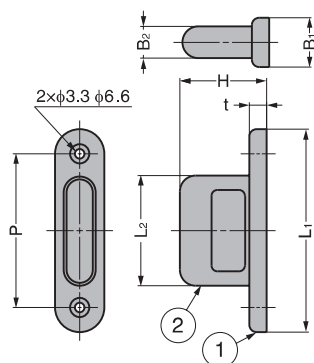
- Truss head screw M4 × 25



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

STAINLESS STEEL PULL HS

SUS



- Elastomer material provides soft and comfortable touch feeling.
- Stainless steel is used for the base part.
- Stainless steel pull US **1** also available.

[Parts Included]

- Raised Countersunk head wood screw 3.1 × 20 (SUS)

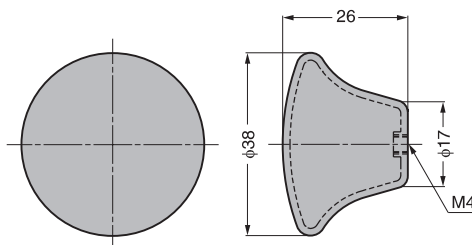
No.	Part Name	Material	Finish / Colour
①	Base	Stainless Steel (SUS304)	Satin
②	Knob	Elastomer (TPE)	Black

RoHS	CAD	Item Code	Item Name	L ₁	L ₂	P	B ₁	B ₂	H	t	Weight (g)	Box (pcs)	Carton (pcs)
		100-012-192	HS-60S	60	30	44	16	9	25	5	13	40	400
		100-012-193	HS-70S	70	38	53	17	11	30	6	20	30	300

Refer to **1** : P.477

STAINLESS STEEL KNOB RS-38S

NSF SUS

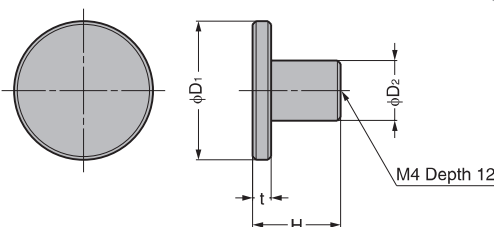


[Parts Included]

- Truss head screw M4 × 30 (SUS)

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

KNOB EXSEL



[Parts Included]

- Truss head screw M4 × 25

RoHS	CAD	Item Code	Item Name	Material	Finish	D ₁	D ₂	H	t	Weight (g)	Box (pcs)	Carton (pcs)
		100-012-080	EXSEL20	Aluminium Alloy	Anodised	20	10	18	4	5	48	1152
		100-012-081	EXSEL25			25	11	18.5	4.5	8.5	48	1152
		100-012-082	EXSEL30			30	12	19	5	15	48	1152
		100-012-083	EXSEL35			35	13			16.5	24	576

STAINLESS STEEL KNOB RSS



● Hollow and light.

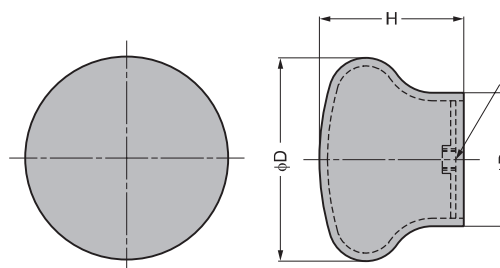
[Applications]

● Medical/professional sinks, cars, and ships, etc.

[Parts Included]

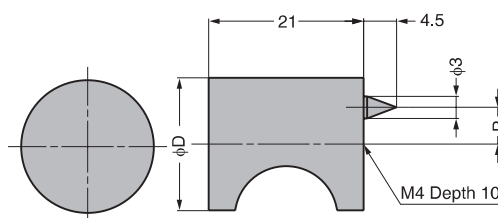
● RSS-25S, RSS-25M, RSS-30S, RSS-30M: Truss head screw M4 × 30 (SUS)

● RSS-38S, RSS-38M, RSS-50S, RSS-50M: Truss head screw M5 × 30 (SUS)



RoHS	CAD	Item Code	Item Name	Material	Finish	H	D	D ₁	d	Weight (g)	Box (pcs)	Carton (pcs)
		100-011-194	RSS-25S	Stainless Steel (SUS304)	Satin	22	25	18	M4	8.5	20	200
		100-011-190	RSS-25M		Polished	22	25	18			20	200
		100-011-195	RSS-30S		Satin	23	30	20		11	20	200
		100-011-191	RSS-30M		Polished	23	30	20			20	200
		100-011-196	RSS-38S		Satin	27	38	25	M5	16	20	200
		100-011-192	RSS-38M		Polished	27	38	25			20	200
		100-011-197	RSS-50S		Satin	34	50	35		30	20	200
		100-011-193	RSS-50M		Polished	34	50	35			20	200

KNOB MRB



[Remarks]

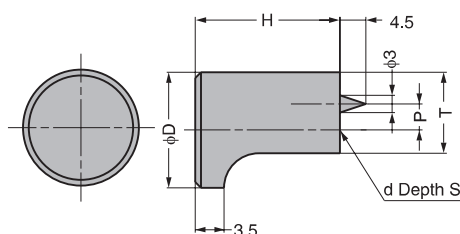
● Pin position and size may vary.

[Parts Included]

● Truss head screw M4 × 25

RoHS	CAD	Item Code	Item Name	Material	Finish	D	P	Weight (g)	Box (pcs)	Carton (pcs)
—		100-010-721	MRB-18	Brass	White Bronze Plating	18	5	38	30	300
—		100-010-722	MRB-24			24	5,5	70	30	300

KNOB GLA



[Remarks]

● Pin position and size may vary.

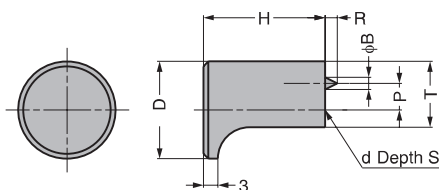
[Parts Included]

● GLA-12: Truss head screw M3 × 25

● GLA-16, GLA-20: Truss head screw M4 × 25

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

KNOB SGL



- Compliant with flame retardancy standard UL94-HB.

[Remarks]

- Pin position and size may vary.

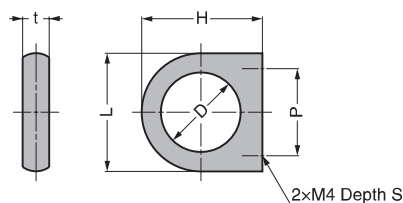
[Parts Included]

- SGL-12: Truss head screw M3 × 28
- SGL-16, SGL-20: Truss head screw M4 × 28

RoHS	CAD	Item Code	Item Name	Material	Finish	D	H	T	P	B	R	d	S	Weight (g)	Box (pcs)	Carton (pcs)
	3D	100-012-016	SGL-12	ABS	Satin Chrome	12	18	8.5	3	2	2	M3	9.5	1	60	1800
	3D	100-012-017	SGL-16			16	22	11	4				13.5	2	40	1200
	3D	100-012-018	SGL-20			20	25	13.5	5				15.5	3.5	30	900

STAINLESS STEEL PULL SD

SUS



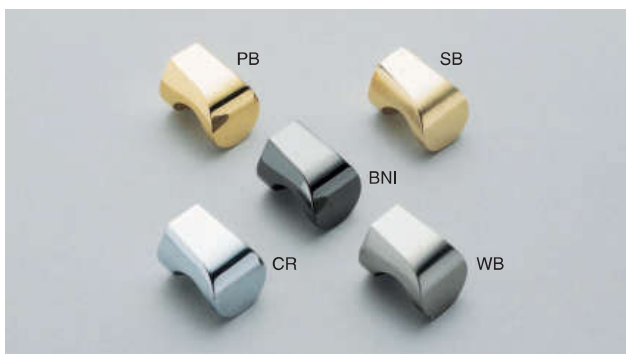
[Parts Included]

- Truss head screw M4 × 25

RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	t	D	P	S	Weight (g)	Box (pcs)	Carton (pcs)
	3D	100-015-022	SD-24S	Stainless Steel (SCS13)	Satin	24.5	25	5.5	16.5	18	5	10	80	800
	3D	100-015-023	SD-24M		Polished								80	800
	3D	100-015-020	SD-30S		Satin	30.5	31.5	6.5	20.5	21	6	22	50	500
	3D	100-015-021	SD-30M		Polished								50	500

※SCS13 is equivalent of SUS304.

KNOB MKZ

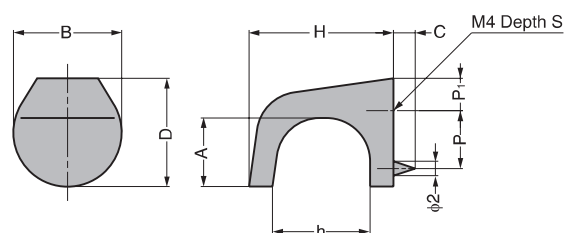


[Remarks]

- Pin position and size may vary.

[Parts Included]

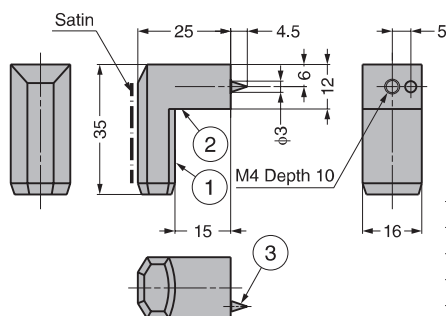
- Truss head screw M4 × 25



RoHS	CAD	Item Code	Item Name	Material	Finish	D	A	B	C	H	h	P	P ₁	S	Weight (g)	Box (pcs)	Carton (pcs)
-	3D	100-018-042	MKZ-15PB	Zinc Alloy (ZDC)	Brass/Clear	16	8	15	2	20	13.5	8	5.5	6	11	50	500
-	3D	100-018-043	MKZ-15CR		Chrome											50	500
-	3D	100-018-044	MKZ-15BNI		Black Nickel											50	500
	3D	100-018-045	MKZ-15WB		White Bronze Plating											50	500
-	3D	100-018-046	MKZ-15SB		Satin Gold											50	500
-	3D	100-018-047	MKZ-21PB		Brass/Clear	21	12.5	20	3	26	17	12	4.5	7	29	50	500
-	3D	100-018-048	MKZ-21CR		Chrome											50	500
-	3D	100-018-049	MKZ-21BNI		Black Nickel											50	500
	3D	100-018-050	MKZ-21WB		White Bronze Plating											50	500
	3D	100-018-051	MKZ-21SB		Satin Gold											50	500

STAINLESS STEEL KNOB CU-L-35

SUS



● Finish: Combination of polished and satin.

[Remarks]

● Pin position and size may vary.

[Parts Included]

● Truss head screw M4 × 25 (SUS)

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

RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
✓	3D	100-012-824	CU-L-35	60	10	—

LARGE HANDLES

HANDLES (FRONT SCREW MOUNT)

HANDLES (BACK SCREW MOUNT)

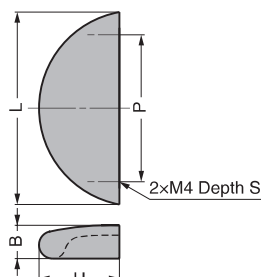
RECESSED PULLS

PULLS & KNOBS

LATCH HANDLES

STAINLESS STEEL PULL RD

SUS316



● Easy to grasp.

[Parts Included]

● Truss head screw M4 × 25 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	B	P	S	Weight (g)	Box (pcs)	Carton (pcs)
✓	3D	100-901-049	RD-55SM	Stainless Steel	Polished	55	23	9.5	42	8	50	30	360
✓	3D	100-901-050	RD-90SM	(SCS14)		90	25.5	10.5	74	10	80	20	240

※SCS14 is equivalent of SUS316.

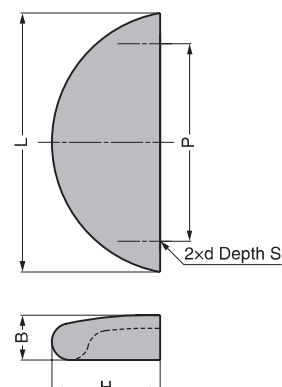
PULL RD



● Easy to grasp.

[Parts Included]

● Truss head screw



RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	H	B	d	S	Weight (g)	Screw	Box (pcs)	Carton (pcs)		
		100-012-331	RD-45CR	Zinc Alloy (ZDC)	Chrome	45	32	19	8.2	M3	7	22	M3 x 28	40	480		
		100-012-333	RD-45WB		White Bronze Plating									40	480		
—		100-012-330	RD-45BN		Black Nickel									40	480		
		100-012-387	RD-45SL		Paint/Silver									40	480		
		100-012-335	RD-55CR		Chrome	55	42	23	9.5	M4	8	35	M4 x 28	30	360		
		100-012-337	RD-55WB		White Bronze Plating									30	360		
		100-012-334	RD-55BN		Black Nickel									30	360		
		100-012-162	RD-90CR		Chrome	90	74	25.5	10.5		9.5	63		20	240		
		100-012-341	RD-90WB		White Bronze Plating									20	240		
		100-012-338	RD-90BN		Black Nickel									20	240		

PUSH KNOB PK04

INSTRUCTION



- Knob can be pushed in when not in use. And no projection from the door surface.
- Able to install to door thickness 15~35mm with cap included, 29~39mm with PK04VB (sold separately).

[Remarks]

- When processing the mounting holes on wooden door, please clear wood scraps before installation.
- When installing knob body and supplied screws, do not tighten with excessive force. (Recommended tightening torque: 4kgf · cm)
- Bracket for sheet metal not included.

[Parts Included]

- Truss head screw M3×20

[Sold Separately]

- Cap for thick door (PK04VB)



BN

CR

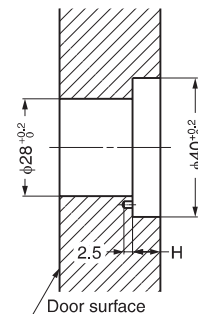
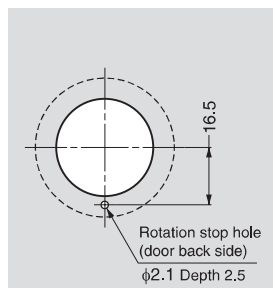
GA



DN

PK04VB (sold separately)

[Cut Out Dimensions]

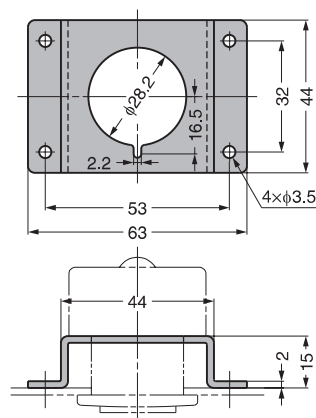
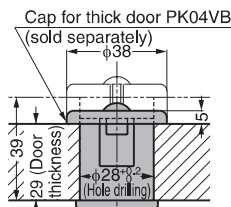
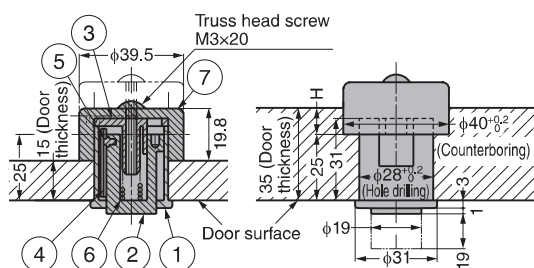


[Door Thickness 15~25]

[Door Thickness 26~35]

[Door Thickness 29~39]

[Bracket for Sheet Metal] Example



No.	Part Name	Material	Finish / Colour
①	Body	ABS	See Below
②	Knob	Zinc Alloy (ZDC)	Coloured Zinc Chromate
③	Cover		
④	Guide Plate		
⑤	Rotor	Stainless Steel	Plain
⑥	Spring		
⑦	Cap	ABS	Black
-	Spring Pin	Stainless Steel	-

[Body]

RoHS	CAD	Item Code	Item Name	Finish	Door Thickness (DT) ※	Bore Depth H	Weight (g)	Box (pcs)	Carton (pcs)
-	3D	100-015-025	PK04GA	Gold	15~35	DT 15~25 : H = None (φ 28 Hole), DT 26~35 : H = DT - 25	76	20	200
✓	3D	100-015-024	PK04CR	Chrome				20	200
-	3D	100-015-026	PK04BN	Black Nickel				20	200
✓	3D	100-012-554	PK04DN	Nickel				20	200

※ When using the supplied cap.

[Cap for Thick Doors] Option

RoHS	CAD	Item Code	Item Name	Door Thickness	Bore Depth H	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
✓	-	100-910-039	PK04VB	29~39	None (φ 28 Hole)	Stainless Steel (SUS430)	Plain	13	100	800

Zwei L STAINLESS STEEL PUSH KNOB ZL-1908**INSTRUCTION****SUS316**

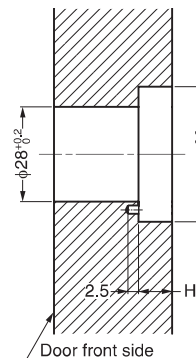
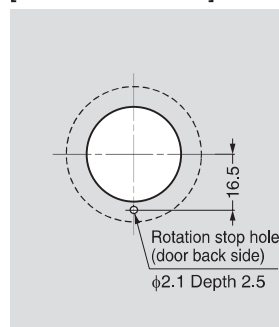
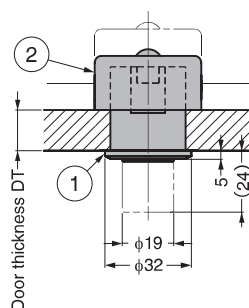
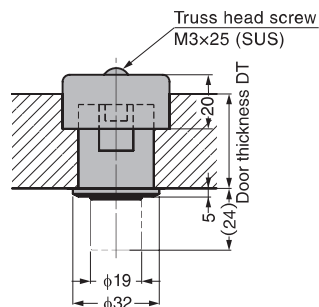
● Knob can be pushed in when not in use. And no projection from the door surface.

● Superior "Zwei L Finish" .

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.

[Parts Included]

● Truss head screw M3×25 (SUS)

[Cut Out Dimensions]**[Door Thickness 13~23 mm]****[Door Thickness 24~23 mm]**

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

RoHS	CAD	Item Code	Item Name	Door Thickness DT	Bore Depth H	Weight (g)	Box (pcs)	Carton (pcs)
		100-011-033	ZL-1908	13~33	DT 13~23 : H = None (φ 28 Hole), DT 24~33 : H = DT - 23	134	1	—

LARGE HANDLES

HANDLES (FRONT SCREW MOUNT)

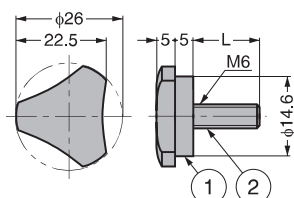
HANDLES (BACK SCREW MOUNT)

RECESSED PULLS

PULLS & KNOBS

LATCH HANDLES

KNOB (SMALL) 117



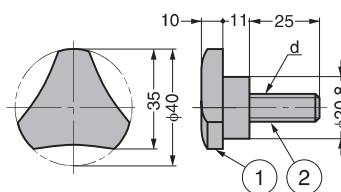
[Applications]

- Medical equipment, OA equipment, and testing equipment, etc.

No.	Part Name	Material	Finish / Colour
①	Knob	PP	White, Black
②	Screw	Steel (SWCH)	Clear Zinc Chromate

RoHS	CAD	Item Code	Item Name	Colour	L	Weight (g)	Box (pcs)	Carton (pcs)
—	3D	100-932-007	117-10110	White	10	7	200	—
—	3D	100-906-561	117-10108	Black	15	8	100	—
—	3D	100-048-063	117-10102	White	15	8	200	—

KNOB (MEDIUM) 117



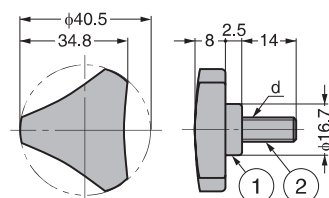
[Applications]

- Medical equipment, OA equipment, and testing equipment, etc.

No.	Part Name	Material	Finish / Colour
①	Knob	PA	Black
②	Screw	Steel (SWCH)	Clear Zinc Chromate

RoHS	CAD	Item Code	Item Name	d	Weight (g)	Box (pcs)	Carton (pcs)
—	3D	100-048-053	117-10701	M8	27	200	—
—	3D	100-048-052	117-10702	M10	39	100	—

KNOB (LARGE) 117



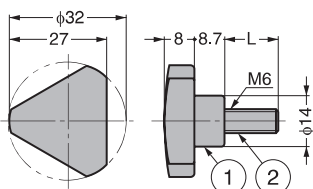
[Applications]

- Medical equipment, OA equipment, and testing equipment, etc.

No.	Part Name	Material	Finish / Colour
①	Knob	PE	Black
②	Screw	Steel (SWCH)	Clear Zinc Chromate

RoHS	CAD	Item Code	Item Name	d	Weight (g)	Box (pcs)	Carton (pcs)
—	3D	100-014-103	117-10313	M6	10	100	—
—	3D	100-022-300	117-10327	M8	15	100	—

KNOB (MEDIUM) 117



[Applications]

- Medical equipment, OA equipment, and testing equipment, etc.

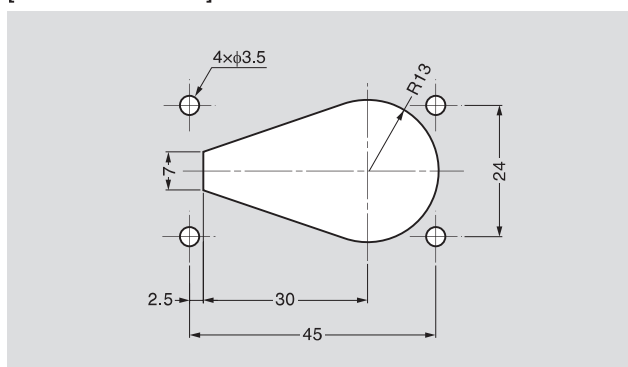
No.	Part Name	Material	Finish / Colour
①	Knob	ABS	Black
②	Screw	Steel (SWCH)	Clear Zinc Chromate

RoHS	CAD	Item Code	Item Name	L	Weight (g)	Box (pcs)	Carton (pcs)
—	3D	100-022-049	117-11707	12	10	200	—
—	3D	100-014-104	117-11703	15	11	200	—

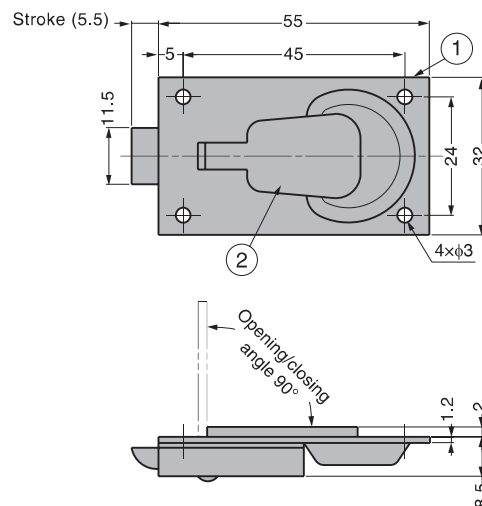
FLUSH SLAM LATCH P10-55H



[Cut Out Dimensions]



- Low profile allows for directly installing to panel surface.
- Pull lever to open.
- Lever can be held in the raised state.
- Latch bolt comes out when lever is pushed down.
- Lever snaps to the end when slightly pushed down.



No.	Part Name	Material	Finish
①	Body	Brass	Nickel
②	Lever		

RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
		140-049-306	P10-55H	40	500	—

FLUSH SLAM LATCH LJ-61

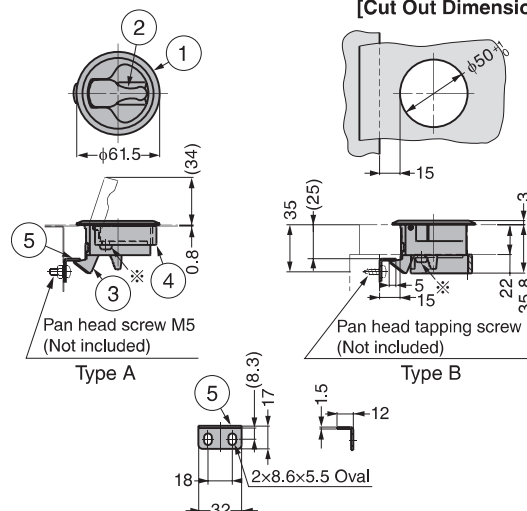


- Suitable for various door thicknesses.
- Can also be installed to a thin panel by changing the installation position of back plate.
- Recessed latch with little projection from door surface.
- Can be released from inside.

[Parts Included]

- Pan head screw M5 x 12 (SUS316)
- Pan head screw M5 x 18 (SUS316)

[Cut Out Dimensions]



No.	Part Name	Material	Finish / Colour
①	Cup	PC	Black, White
②	Lever		
③	Latch	POM	
④	Back Plate	PC	Barrel Polished
⑤	Counter Plate	Stainless Steel (SUS316)	

[Screws] ※marked part on the drawings

Type	Door Thickness	Screw
Type A	0.8~7.5	Pan Head Tapping Screw M5 x 12
	8~12	Pan Head Tapping Screw M5 x 18
Type B	12.5~18.5	Pan Head Tapping Screw M5 x 12
	19~22	Pan Head Tapping Screw M5 x 18

RoHS	CAD	Item Code	Item Name	Colour	Retaining Force N	Retaining Force kgf	Weight (g)	Box (pcs)	Carton (pcs)
		140-050-031	LJ-61-BL	Black	147	15	60	10	120
		140-059-200	LJ-61-WT	White				10	120

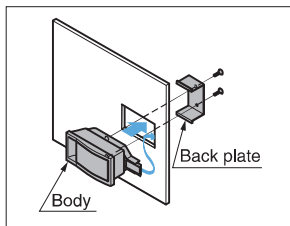
FLUSH SLAM LATCH LC-65A



[Application Example]



[Installation]



No.	Part Name	Material	Finish / Colour
①	Body	Aluminium Alloy	Silver
②	Latch Bolt	POM	White
③	Cover	Stainless Steel (SUS304)	Barrel Polished
④	Back plate		

RoHS	CAD	Item Code	Item Name	Door Thickness	Weight (g)	Box (pcs)	Carton (pcs)
		140-050-206	LC-65A	2~3.2	108	10	100

- Pull paddle handle to open.
- Door will be latched when closed.
- Mounting screws are invisible from door surface.
- Easy installation. Insert the latch body through cut out section and simply screw-on the back plate.
- Latching margin: 5mm (Small R is required at the corners on the frame side)

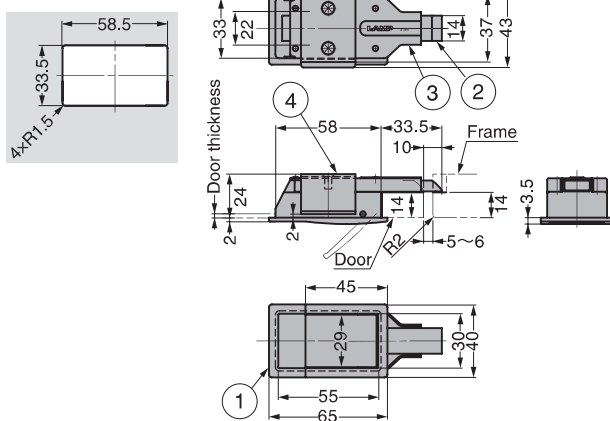
[Remarks]

- Please contact us when using other than the recommended door thickness.

[Parts Included]

- Pan head screw M4 × 8 (SUS)

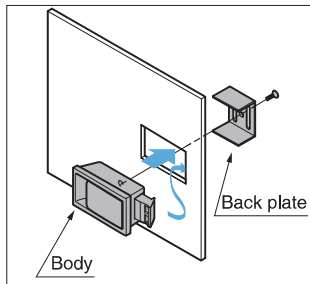
[Cut Out Dimensions]



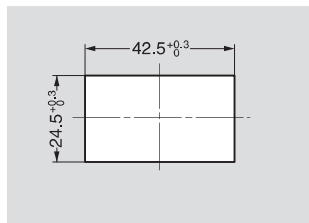
FLUSH SLAM LATCH LC-48



[Installation]



[Cut Out Dimensions]



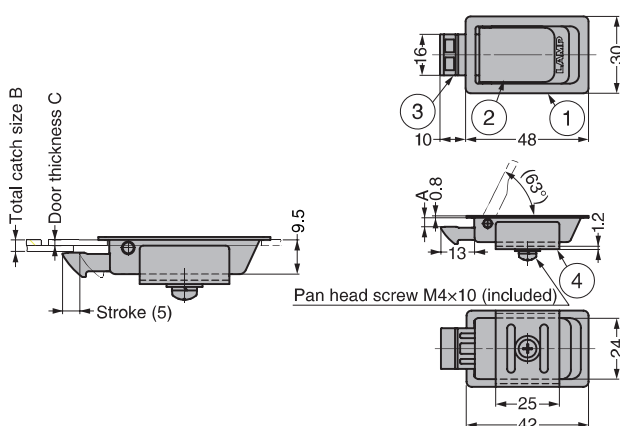
No.	Part Name	Material	Finish / Colour
①	Body	Stainless Steel (SUS304)	Barrel Polished
②	Handle		
③	Latch	PBT (Glass Reinforced)	White
④	Back Plate	Stainless Steel (SUS304)	Barrel Polished

RoHS	CAD	Item Code	Item Name	A	Total Catch Size B	Door Thickness C	Weight (g)	Box (pcs)	Carton (pcs)
		140-021-199	LC-48-3	3.5	3.2	1~1.6	35	40	400
		140-021-200	LC-48-5	5.1	4.6	1~2.3		40	400

- Door will be latched when closed.
- Low profile eliminates worries about protruding to the inside of equipment.
- Mounting screws are invisible from door surface.
- UL94V-0 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)



SNAP LOCK **SX-48** Quick Installation & Temporary HoldingTEST
METHOD 11

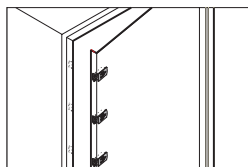
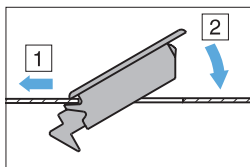
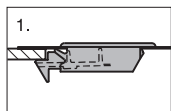
- Door or lid can be opened/closed with a single touch.
- Easy installation by one-touch.
- With temporary holding function.

Even if multiple latches are installed, door can also be opened at once by keeping all of them temporarily held.

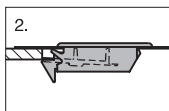
- Compliant with flame retardancy standards and UL94 standard.

[Remarks]

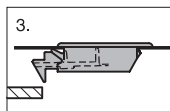
- If the door may fall off like a ceiling door, please fix it separately with screws.

LARGE
HANDLESHANDLES
(FRONT
SCREW
MOUNT)HANDLES
(BACK
SCREW
MOUNT)RECESSED
PULLSPULLS
&
KNOBSLATCH
HANDLES**[Application Example]****[Installation]****[How to Operate]**

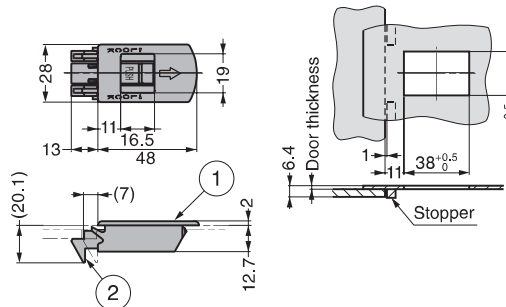
The door will be latched when closed.



To temporarily hold the door, slide the lever to the end.



The lever and latch return to their original positions when the door is opened.

[Cut Out Dimensions]

No.	Part Name	Material
①	Body	PA (UL94V-2)
②	Latch	POM (UL94HB)
-	Spring	Stainless Steel (SUS304)

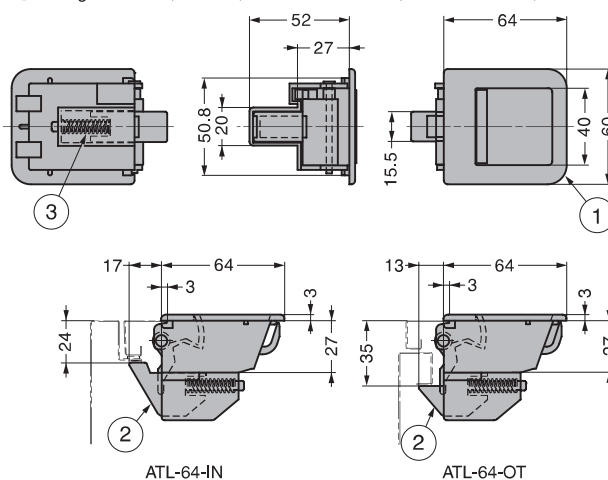
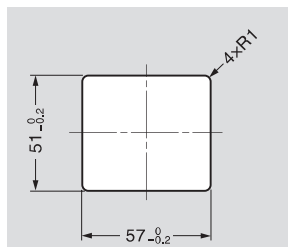
RoHS	CAD	Item Code	Item Name	Door thickness	Colour	Retaining Force N/pc	Retaining Force kgf/pc	Weight (g)	Box (pcs)	Carton (pcs)
		140-050-037	SX-48	0.8~2.3	Black	49	5	11	40	400

PULL **ATL-64** Quick Installation

- Easy installation by one-touch.
- Pull lever to open.
- Door will be latched when closed.
- Suitable for thin sheet metal (thickness: 0.7~1mm) with types for inset and overlay doors available.

[Applications]

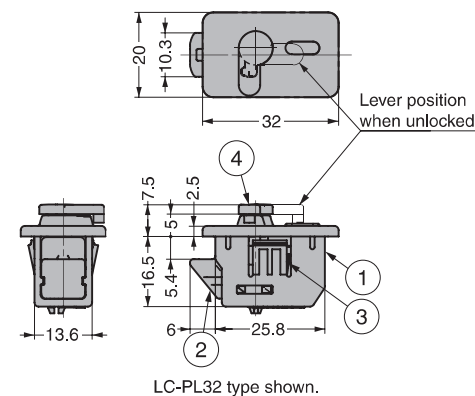
- Storage cabinets, lockers, small article cases, and dust boxes, etc.

[Cut Out Dimensions]

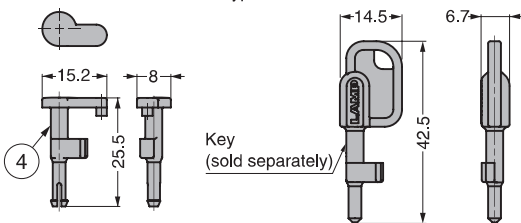
No.	Part Name	Material	Finish / Colour
①	Body	ABS	Dark Ivory
②	Latch	PA	Natural
③	Spring	Stainless Steel (SUS304)	Plain

RoHS	CAD	Item Code	Item Name	Description	Door thickness	Weight (g)	Box (pcs)	Carton (pcs)
		140-012-014	ATL-64-IN	For Inset Door	0.7~1	44.5	175	-
		140-012-019	ATL-64-OT	For Overlay Door			175	-

PANEL LATCH LC-PK32, LC-PL32 Quick Installation



LC-PL32 type shown.



No.	Part Name	Material
①	Body	PP
②	Latch	PBT
③	Spring	Stainless Steel (SUS304)
④	Lever ※	PBT

※The lever attached to LC-PL32 is the same as the optional lever.

- Two types of lock/unlock methods available: lever type and key type.
- Lever and key are compatible.
- Turning the lever or key 90° counterclockwise to unlock the latch.
- With temporary holding function that holds the latch in unlocked state. Even if multiple latches are installed, door can also be opened at once by keeping all of them temporarily held.
- Key type prevents the door from opening unexpectedly.
- Compliant with flame retardancy standard UL94 V-0. Built-in spring is made of stainless steel (SUS304).

[Product Ordering]

- Lock/unlock with key: Order body (without lever) + key.
- Lock/unlock with lever: Order body (with lever).
- Change from key to lever: Order lever.

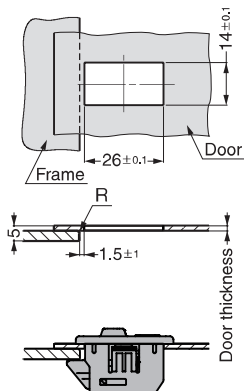
[Remarks]

- Do not use the lever or key as a knob. It may cause damage.
- Do not reuse the lever once removed from the body.

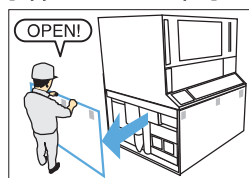
[Sold Separately]

- Lever (attached to LC-PL32)
- Key

[Cut Out Dimensions]

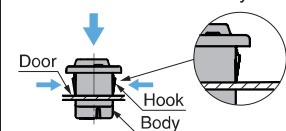


[Application Example]

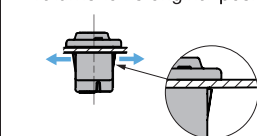


[Quick Installation]

1. When inserting the body in the mounting hole, the hook is stored inside the body.

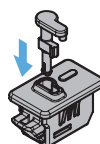


2. After installing, the hook returns to its original position.

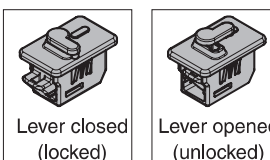
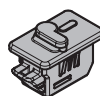


[How to Install the Lever]

1. Insert the lever straight.

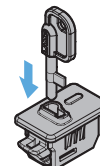


2. Until it snaps, check if the lever tip completely protrudes the body bottom.

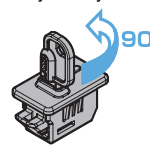


[How to Unlock with Key]

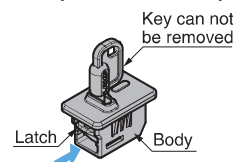
1. Insert the key.



- 2 Turn the key left by 90°.



3. The latch is stored in the body. At this moment, the latch will not return to its original position even if you release the key.



[Body]

RoHS	CAD	Item Code	Item Name	Colour	Door thickness	Description	Weight (g)	Box (pcs)	Carton (pcs)
✓	3D	140-020-694	LC-PK32-L-BL	Black	1.2, 1.5, 1.6	Without Lever	6	75	750
✓	3D	140-020-695	LC-PK32-L-GR	Grey			6	75	750
✓	3D	140-023-570	LC-PL32-BL	Black		With Lever	7	72	720
✓	3D	140-023-569	LC-PL32-GR	Grey			7	72	720

[Lever] Sold Separately

RoHS	CAD	Item Code	Item Name	Colour	Weight (g)	Box (pcs)	Carton (pcs)
✓	3D	140-023-568	LC-PL32-L-BL	Black	1	200	2000
✓	3D	140-023-567	LC-PL32-L-GR	Grey	1	200	2000

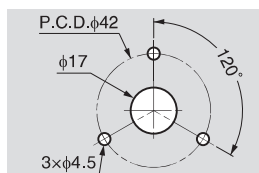
[Key] Sold Separately

RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
✓	3D	140-020-696	LC-PK32-K	Zinc Alloy (ZDC)	Nickel	7	200	2000

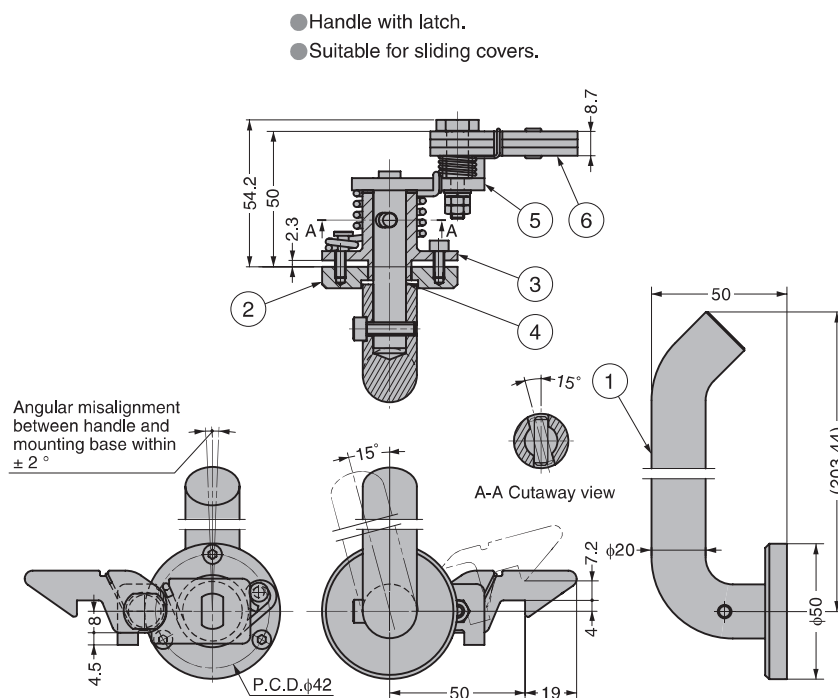
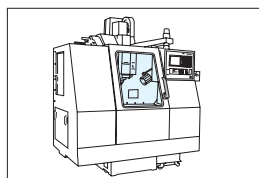
LATCH HANDLE LH-203



[Cut Out Dimensions]



[Application Example]



No.	Part Name	Material	Finish
①	Handle	Aluminium Alloy	Black Enamel Finish
②	Bracket	Brass	
③	Body	Steel (S45C)	Coloured Zinc Chromate
④	Shaft		
⑤	Plate A	Steel (SPHC)	
⑥	Plate B	Steel (SPCC)	

RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
		140-010-223	LH-203	500	2	24

Zwei L STAINLESS STEEL DOOR HANDLE ZL-1506 DIGEST

SUS316 TEMPERED GLASS



- Superior "Zwei L Finish" .

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.

- Suitable for double-sided mount for glass/wooden/metal doors and single-sided mount for wooden/glass doors.



LATCH HANDLE MDHL

SUS



- Latch handle for sliding doors of machine tools, etc.
- Latch is released when pulling the handle.
- Brackets and pipes can be combined freely.
- Two types of brackets available: In-line type and offset type.
- Pipes are made of stainless steel or carbon fibre reinforced plastic, either has 6 lengths available. By cutting the pipe, the total length can be changed freely.
- Carbon fibre reinforced plastic pipes are subject to UV-cut treatment to prevent discoloration.

What is carbon fibre reinforced plastic?

It is a light weight, high-strength materials also widely used for aircraft, etc., contributing to the weight reduction of structure. Also, the delicate mesh pattern brings a unique texture and high-quality feeling.

- Pipes may be sold separately.
- Linear rail for sliding doors with latch handles also available.
- Design door handle MDH **1** of the same appearance without latch also available.

[Remarks]

- Brackets and pipes have separate item numbers. Please order together by indicating each specification.
- Bracket is sold by piece.
- Hold the centre of handle for operation. Otherwise, the latch may not operate properly.

[Bracket]



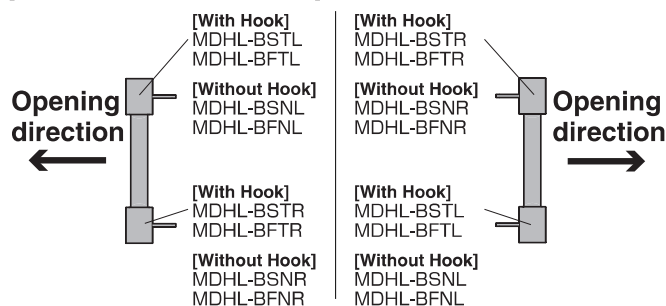
MDHL-BSTL



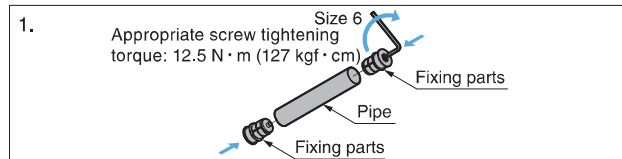
MDHL-BFTL

DESIGN DOOR HANDLE MDH **1**

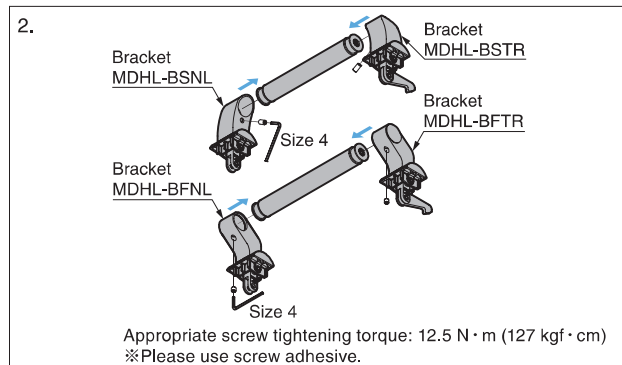
[Installation Direction of Bracket]



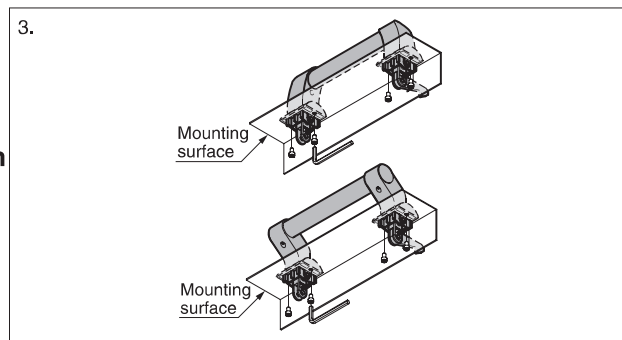
[How to Install]



Insert the fixing parts (attached to the bracket) into both ends of the pipe until their flanges contact the pipe ends, and then tighten the screws with a hex key size 6 (not included).



Insert the brackets on both sides into the pipe, and tighten the set screws (attached to the bracket) with a hex key size 4 (not included).

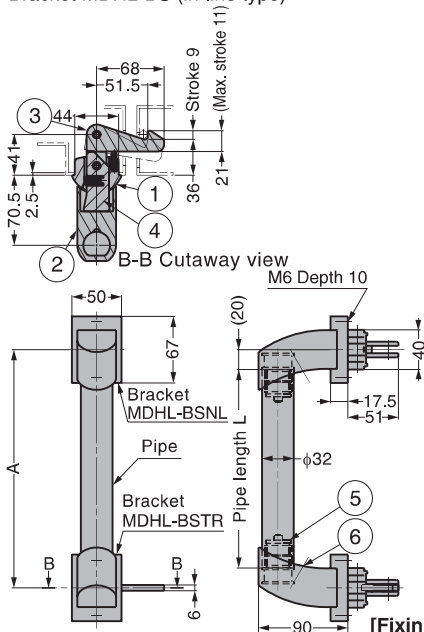


Fix on the mounting surface with M6 screws (not included).

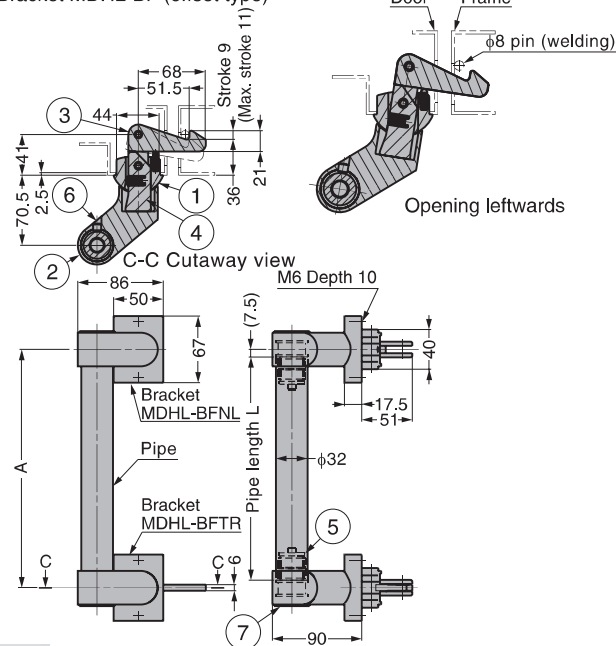
Refer to **1** : P.462

[Installation of Bracket and Pipe]

Bracket MDHL-BS (in-line type)



Bracket MDHL-BF (offset type)



LARGE HANDLES

HANDLES (FRONT SCREW MOUNT)

HANDLES (BACK SCREW MOUNT)

RECESSED PULLS

PULLS & KNOBS

LATCH HANDLES

[Bracket]

No.	Part Name	Material	Finish / Colour
①	Base	Zinc Alloy	Matte Chrome
②	Arm	(ZDC)	
③	Hook	Steel (SPHC)	
④	Rotating Parts	Zinc Alloy	Plain
⑤	Fixing Parts	(ZDC)	
⑥	Hexagon Socket Set Screw M8 x 8	Stainless Steel	Black
⑦	Cap	POM	

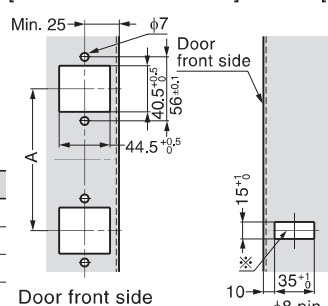
**[Fixing Parts 5]****[Bracket]**

RoHS	CAD	Item Code	Item Name	Hook	Weight (g)	Box (pcs)	Carton (pcs)
CE	3D	140-025-544	MDHL-BSTL	w/	1004	1	1
CE	3D	140-025-545	MDHL-BSNL	w/o	940	1	1
CE	3D	140-025-546	MDHL-BSTR	w/	999	1	1
CE	3D	140-025-547	MDHL-BSNR	w/o	935	1	1
CE	3D	140-025-548	MDHL-BFTL	w/	1091	1	1
CE	3D	140-025-549	MDHL-BFNL	w/o	1026	1	1
CE	3D	140-025-550	MDHL-BFTR	w/	1095	1	1
CE	3D	140-025-551	MDHL-BFNR	w/o	1028	1	1

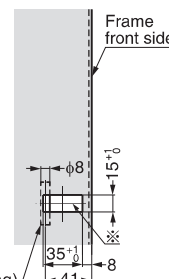
[Pipe]

RoHS	CAD	Item Code	Item Name	Bracket	Material	Finish	Pipe Length L	Mounting Hole Pitch A	Pipe Thickness	Load capacity N	Load capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
		140-025-552	MDHL-SPS240	MDHL-BS	Stainless Steel (SUS304)	Satin	200	240	2	490	50	285	1	10
		140-025-553	MDHL-SPS340				300	340				430	1	10
		140-025-554	MDHL-SPS440				400	440				566	1	10
		140-025-555	MDHL-SPS540				500	540				712	1	10
		140-025-556	MDHL-SPS640				600	640				845	1	10
		140-025-557	MDHL-SPS740				700	740				997	1	10
		140-025-558	※MDHL-SPC240	Carbon Fibre Reinforced Polymer (CFRP)	Paint/ Clear	200	240	2.5	—			25	—	
		140-025-559	MDHL-SPC340			300	340		107			25	—	
		140-025-560	MDHL-SPC440			400	440		142			25	—	
		140-025-561	※MDHL-SPC540			500	540		—			25	—	
		140-025-562	※MDHL-SPC640			600	640		—			13	—	
		140-025-563	※MDHL-SPC740			700	740		—			13	—	
		140-025-564	MDHL-FPS240	MDHL-BF	Stainless Steel (SUS304)	Satin	225	240	2			318	1	10
		140-025-565	MDHL-FPS340				325	340				465	1	10
		140-025-566	MDHL-FPS440				425	440				603	1	10
		140-025-567	MDHL-FPS540				525	540				749	1	10
		140-025-568	MDHL-FPS640				625	640				883	1	10
		140-025-569	MDHL-FPS740				725	740				1032	1	10
		140-025-570	※MDHL-FPC240		Carbon Fibre Reinforced Polymer (CFRP)	Paint/ Clear	225	240	2.5			—	25	—
		140-025-571	※MDHL-FPC340				325	340				—	25	—
		140-025-572	※MDHL-FPC440				425	440				—	25	—
		140-025-573	※MDHL-FPC540				525	540				—	25	—
		140-025-574	※MDHL-FPC640				625	640				—	13	—
		140-025-575	※MDHL-FPC740				725	740				—	13	—

※Made to order.

[Cut Out Dimensions for Door]

Door front side

[Cut Out Dimensions for Frame]

In the above drawings, the upper parts are for MDHL-BSNL or MDHL-BFNL, and the lower parts are for MDHL-BSTR or MDHL-BFTR.

When processing ※ marked part, noted to align it with the centre of hook ③ of bracket.

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