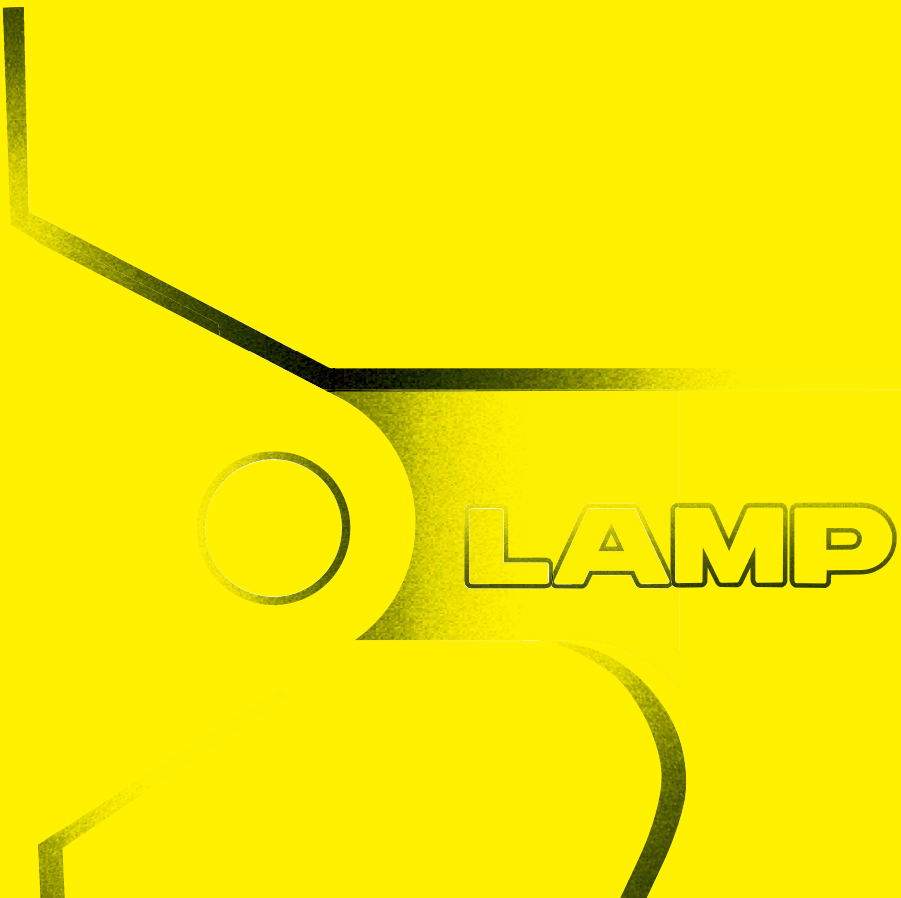
SUGATSUNE

Industrial Component Hardware



June 2022

No.400

INDEX

HINGES
LID SUPPORTS
CATCHES, LATCHES & FASTENERS
DRAWER SLIDES
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MONITOR MOUNTS
CABINET DOOR HARDWARE & SHUTTER DOORS
LOCKS
CASTERS
LEVELLING GLIDES & BASE
MISCELLANEOUS

Motion Design Tec

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.

SUGATSUNE

June 2022

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Design Handle Series

P.616~







Handle (Front / Back Screw Mount)
KMH



ZL-2001



Recessed Pull
XLA-HHA



Latch Handle
MDHL



Large Handle
MDH



MTH



SSH



SOR



TBH



SBH



MSH



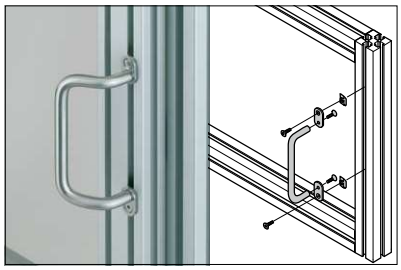
AGH-L/AGH-T



Aluminium Frame Support System AS Series

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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.635~

MG



MH-P



HH-P



HH



HH-KL160



HH-KP150



MJH



MG



HH-UD



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Large Handles

P.618~


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RECESSED PULLS
PULLS & KNOBS
LATCH HANDLES

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Latch Handles

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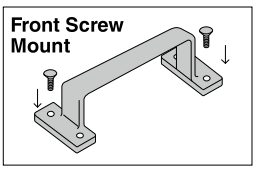
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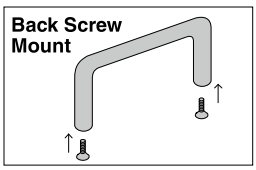
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190	MG-190	Stainless Steel	Front Screw Mount	P.635
192	SOR-200BL	Aluminium	Back Screw Mount	P.627
	SOR-200S			
	MDH-PC192	Plastic		P.630
	MDH-PS192	Stainless Steel		
	ZL-1507-IS-192			P.633
	ZL-1507-OS-192			
	ZL-1507-WN-192			
	ZL-2001-192			P.654
	ZL-2002-192			
	H-29-192-SM			P.656

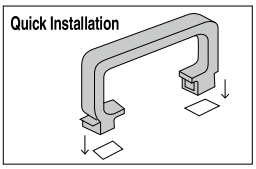
Pitch	Item Name	Material	Installation	Page
192	H-29-192-SS	Stainless Steel	Back Screw Mount	P.656
	H-35-192-SM			
	H-35-192-SS			
	KPH-192			P.658
	HA-SQS-270BL	Aluminium		P.664
	HA-SQS-270SL			
	HA-SQS-270ST			
196	FT-S280	Stainless Steel	Front Screw Mount	P.637
200	AGH-L200BL	Aluminium	Back Screw Mount	P.623
	AGH-L200SL			
	HGH-200SM	Stainless Steel		P.653
	ECH-200M			P.658
	HA-RU-250BL	Aluminium		P.666
	HA-RU-250SL			
212	XL-CU220TT	Stainless Steel		P.657
	EC-220M			P.658
	EC-220S			
224	SRH-224BL-M4	Aluminium		P.625
	SRH-224BL-M5			
	SRH-224SL-M4			
	SRH-224SL-M5			
	SYH-224BL-M4			P.628
	SYH-224BL-M5			
	SYH-224SL-M4			
	SYH-224SL-M5			
	KPH-224	Stainless Steel		P.658
230	MG-230T		Front Screw Mount	P.635
238	H-42-C-6		Back Screw Mount	P.646
	H-42-B-6			P.650
240	HA-BE-300BL	Aluminium		P.665
	HA-BE-300SL			
	HA-FR-300BL			P.666
	HA-FR-300SL			
250	AGH-L-250BL			P.623
	AGH-L-250SL			
	MG-250	Stainless Steel	Front Screw Mount	P.635
	ECH-250M		Back Screw Mount	P.658
253	FT-280		Front Screw Mount	P.637
254	XL-JS260TT		Back Screw Mount	P.655
256	ZL-2001-256			P.654
	ZL-2002-256			
	KPH-256			P.658
270	MG-270T		Front Screw Mount	P.635
288	H-42-C-7		Back Screw Mount	P.646
	H-42-B-7			P.650
	H-35-288-SM			P.656
	H-35-288-SS			
	KPH-288			P.658
292	XL-CU300TT			P.657
300	AGH-F300BL	Aluminium		P.624
	AGH-F300SL			
	APH-P300		Front Screw Mount	P.629
	MTH-L300		Back Screw Mount	
	MTH-T300			
	MG-300T	Stainless Steel	Front Screw Mount	P.635
	AM-310S	Aluminium	Back Screw Mount	P.652
	ECH-300M	Stainless Steel		P.658
310	SBH-400BL	Aluminium		P.619
	SBH-400SL			

Pitch	Item Name	Material	Installation	Page
316	SSH-2540	Stainless Steel	Back Screw Mount	P.634
	SSH-3240			
320	ZL-1508-IS-320			P.632
	ZL-1508-OS-320			
	ZL-1508-WN-320			
	ZL-1507-IS-320			P.633
	ZL-1507-OS-320			
	ZL-1507-WN-320			
	ZL-2002-320			P.654
	AOT35-340	Aluminium		P.661
330	SRH-330BL-M4			P.625
	SRH-330BL-M5			
	SRH-330SL-M4			
	SRH-330SL-M5			
335	ASH-400BL			P.626
	ASH-400SL			
	ASH-400ST			
	SOR-400BL			P.627
	SOR-400S			
340	HA-SQB-400BL		Front Screw Mount	P.664
	HA-SQB-400SL			
350	MMH-350BL		Back Screw Mount	P.620
	MMH-350SL			
	MGH-350BL			P.621
	MGH-350SL			
	MSH-350BL			P.622
	MSH-350SL			
	AGH-L350BL			P.623
	AGH-L350SL			
	AGH-T350BL			
	AGH-T350SL			
	MDH-PC350	Plastic		P.630
	MDH-PS350	Stainless Steel		
	SLH-3240SH			P.631
352	XL-JS360TT			P.655
400	AGH-F400BL	Aluminium		P.624
	AGH-F400SL			
	APH-P400		Front Screw Mount	P.629
416	ZL-2002-416	Stainless Steel	Back Screw Mount	P.654
450	MTH-L450	Aluminium		P.629
	MTH-T450			
464	MP-500	Stainless Steel	Front Screw Mount	P.635
480	AOT35-500	Aluminium	Back Screw Mount	P.661
500	AGH-L500BL			P.623
	AGH-L500SL			
	AGH-T500BL			
	AGH-T500SL			
	APH-P500		Front Screw Mount	P.629
	MDH-PC500	Plastic	Back Screw Mount	P.630
	MDH-PS500	Stainless Steel		
510	SBH-600BL	Aluminium		P.619
	SBH-600SL			
512	ZL-2002-512	Stainless Steel		P.654
516	SSH-2560			P.634
	SSH-3260			
522	ASH-600BL	Aluminium		P.626
	ASH-600SL			
	ASH-600ST			
	SOR-600BL			P.627

Pitch	Item Name	Material	Installation	Page
522	SOR-600S	Aluminium	Back Screw Mount	P.627
540	HA-SQB-600BL			P.664
	HA-SQB-600SL			
550	MMH-550BL			P.620
	MMH-550SL			
	MGH-550BL			P.621
	MGH-550SL			
	MSH-550BL			P.622
	MSH-550SL			
	SLH-3260SH	Stainless Steel		P.631
600	APH-P600	Aluminium	Front Screw Mount	P.629
	MTH-L600		Back Screw Mount	
	MTH-T600			
640	ZL-1508-IS-640	Stainless Steel		P.632
	ZL-1508-OS-640			
	ZL-1508-WN-640			
	ZL-1507-IS-640			P.633
	ZL-1507-OS-640			
	ZL-1507-WN-640			
710	SBH-800BL	Aluminium		P.619
	SBH-800SL			
	ASH-800BL			P.626
	ASH-800SL			
	ASH-800ST			
	SOR-800BL			P.627
	SOR-800S			
714	MP-750	Stainless Steel	Front Screw Mount	P.635
716	SSH-2580		Back Screw Mount	P.634
	SSH-3280			
740	HA-SQB-800BL	Aluminium		P.664
	HA-SQB-800SL			
750	MMH-750BL			P.620
	MMH-750SL			
	MGH-750BL			P.621
	MGH-750SL			
	MSH-750BL			P.622
	MSH-750SL			
	SLH-3280SH	Stainless Steel		P.631
760	RH-760			P.634
800	MDH-PC800	Plastic		P.630
	MDH-PS800	Stainless Steel		
964	MP-1000		Front Screw Mount	P.635
975	SOR-1000BL	Aluminium	Back Screw Mount	P.627
	SOR-1000S			
1066	SSH-25115	Stainless Steel		P.634
1200	MDH-PC1200	Plastic		P.630
	MDH-PS1200	Stainless Steel		









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.622



TBH
» P.618



SBH
» P.619



AGH-L
AGH-T
» P.623



AGH-F
» P.624



SOR
» P.627



MDH
» P.630



MDHL
» P.700



CJH
» P.643



SJH
» P.644



KMH
» P.641



SYH
» P.628



ALH
» P.628



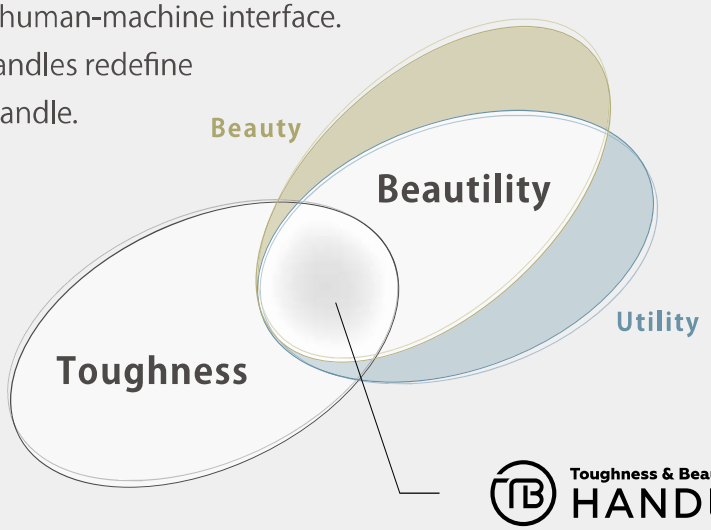
HGH
» P.653



HH-UD
» P.680

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.



MACHINERY HANDLE TBH Straight Type

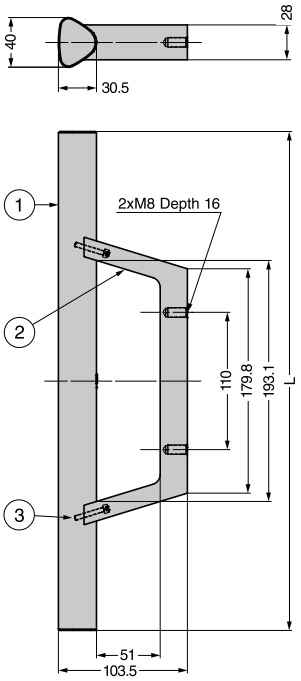




- Revolutionary design aesthetic combines purity of form with solidity of feel.
- Consists of a triangle-shaped bar and a bracket in the centre.
- Rich individuality and excellent overall coordination.

[Applications]

- Main doors of machine tools, etc.



Video Link

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	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-036-948	TBH-400SL	Matte Silver/Anodised	400	500	51	1877	1	5
G	3D	100-036-949	TBH-400BL	Matte Black/Anodised					1	5
G	3D	100-036-950	TBH-600SL	Matte Silver/Anodised	600			2363	1	5
G	3D	100-036-951	TBH-600BL	Matte Black/Anodised					1	5

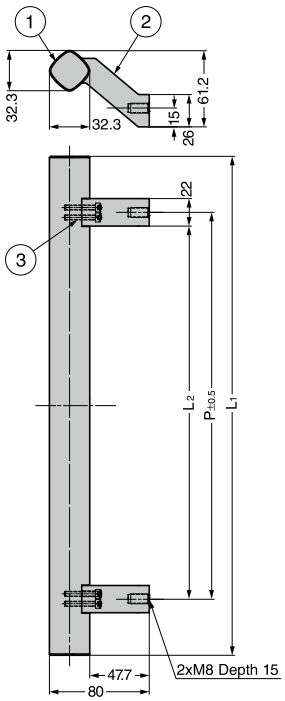
MACHINERY HANDLE SBH Offset Type



- 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.





Video Link

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 M4x25	Stainless steel	–

RoHS	CAD	Item Code	Item Name	Finish	L1	L2	P	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-036-952	SBH-400SL	Matte Silver/Anodised	400	288	310	500	51	1079	1	6
G	3D	100-036-953	SBH-400BL	Matte Black/Anodised							1	6
G	3D	100-036-954	SBH-600SL	Matte Silver/Anodised	600	488	510			1456	1	6
G	3D	100-036-955	SBH-600BL	Matte Black/Anodised							1	6
G	3D	100-036-956	SBH-800SL	Matte Silver/Anodised	800	688	710			1833	1	6
G	3D	100-036-957	SBH-800BL	Matte Black/Anodised							1	6

MACHINERY HANDLE MMH

TEST METHOD 20

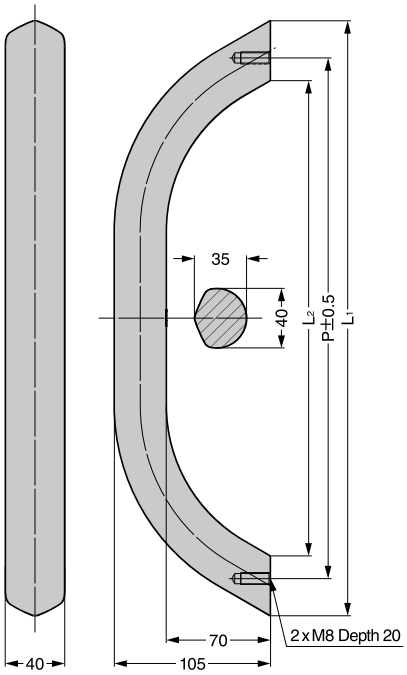




- Cross-section is thicker than the MSH 1, which makes this handle suitable for use in large machine tools.
- Ideal for inset sliding doors. The handle is designed to be higher than common handles, which prevents hands from accidentally hitting the doorframe when sliding.
- Back side of the handle is large and round, which prevents hands from hurting even when grasping tightly.
- Harmonious design. The handle has a centerline helping it harmonise with machine tools with chamfered edges.

[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 in places that are reinforced.
- Surface colour of installation side may discolour. This does not affect the performance.



Video Link

RoHS	CAD	Item Code	Item Name	Material	Finish	L1	L2	P	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pc)
G	3D	100-043-781	MMH-350SL	Aluminium Alloy	Matte Silver/Anodised	400	319.5	350	1000	102	1250	1
G	3D	100-043-782	MMH-350BL		Matte Black/Anodised							1
G	3D	100-043-783	MMH-550SL		Matte Silver/Anodised	600	519.5	550			1830	1
G	3D	100-043-784	MMH-550BL		Matte Black/Anodised							1
G	3D	100-043-785	MMH-750SL		Matte Silver/Anodised	800	719.5	750			2400	1
G	3D	100-043-786	MMH-750BL		Matte Black/Anodised							1

Refer to 1 : P.622

MACHINERY HANDLE MGH

TEST METHOD 20

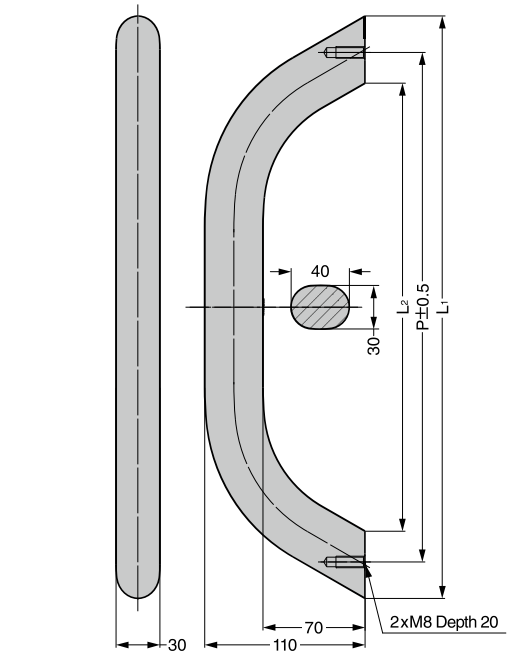




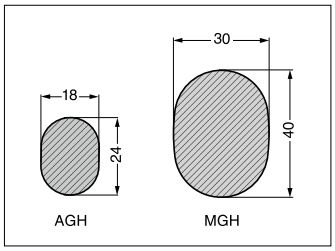
- Cross-section is thicker than the AGH 1, which makes this handle suitable for use in large machine tools.
- Ideal for inset sliding doors. The handle is designed to be higher than common handles, which prevents hands from accidentally hitting the doorframe when sliding.
- Back side of the handle is large and round, which prevents hands from hurting even when grasping tightly.
- Easy-to-use design. The ellipse cross-section allows it to comfortably fit a human hand.

[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 in places that are reinforced.
- Surface colour of installation side may discolour. This does not affect the performance.



[Cross-section]



Video Link

Can be used with the AGH 1 for design harmonisation.

RoHS	CAD	Item Code	Item Name	Material	Finish	L_1	L_2	P	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pc)
G	3D	100-043-775	MGH-350SL	Aluminium Alloy	Matte Silver/Anodised	400	308	350	1000	102	1170	1
G	3D	100-043-776	MGH-350BL		Matte Black/Anodised							1
G	3D	100-043-777	MGH-550SL		Matte Silver/Anodised	600	508	550			1710	1
G	3D	100-043-778	MGH-550BL		Matte Black/Anodised							1
G	3D	100-043-779	MGH-750SL		Matte Silver/Anodised	800	708	750			2250	1
G	3D	100-043-780	MGH-750BL		Matte Black/Anodised							1

Refer to 1 : P.623

MACHINERY HANDLE MSH Straight Type

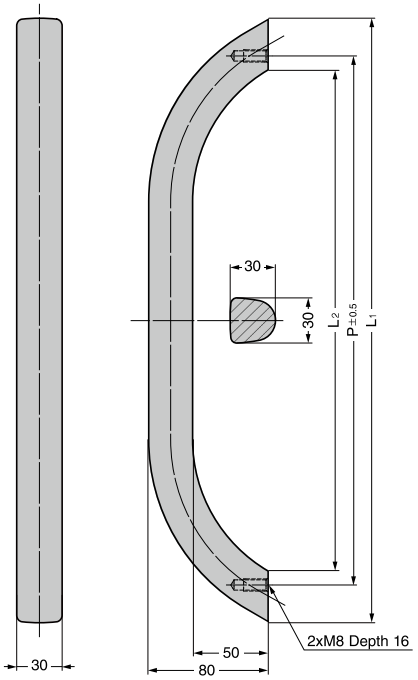
TEST METHOD 20



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

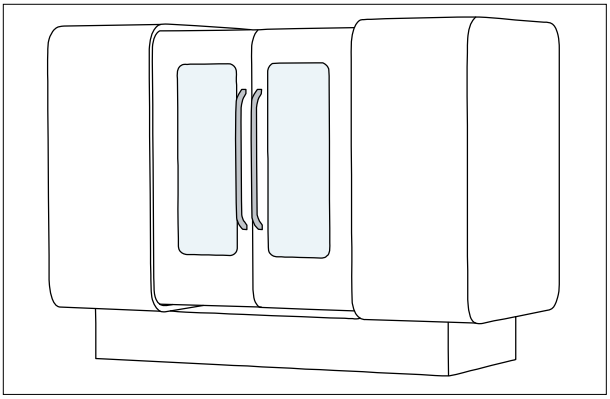
[Applications]

- Main doors of machine tools, etc.









Video Link

RoHS	CAD	Item Code	Item Name	Material	Finish	L1	L2	P	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-036-942	MSH-350SL	Aluminium Alloy	Matte Silver/Anodised	400	330.7	350	500	51	850	–	–
G	3D	100-036-943	MSH-350BL		Matte Black/Anodised							–	–
G	3D	100-036-944	MSH-550SL		Matte Silver/Anodised	600	530.7	550			1256	–	–
G	3D	100-036-945	MSH-550BL		Matte Black/Anodised							–	–
G	3D	100-036-946	MSH-750SL		Matte Silver/Anodised	800	730.7	750			1663	–	–
G	3D	100-036-947	MSH-750BL		Matte Black/Anodised							–	–

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

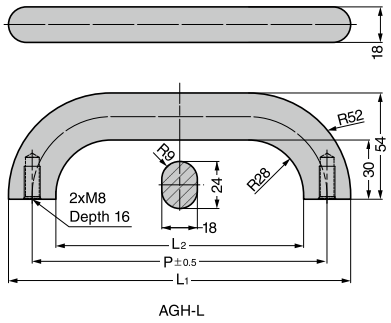
TEST METHOD 20



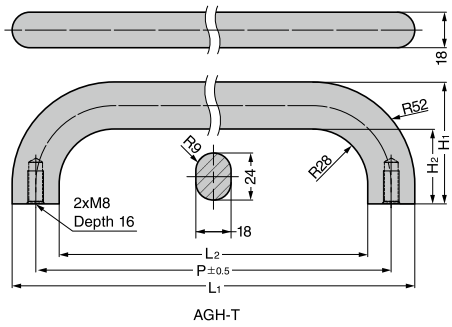
- Elliptical profile combines minimalist look with maximum grip.
- Choice of heights.

[Applications]

- Handle for operation panel.

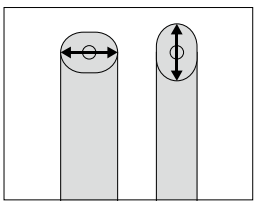


AGH-L



AGH-T





Standard handle (flat ellipse) | This product (tall ellipse)

Video Link

RoHS	CAD	Item Code	Item Name	Material	Finish	L1	L2	P	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-036-962	AGH-L150SL	Aluminium Alloy	Matte Silver/Anodised	174	126	150	350	36	191	–	–
G	3D	100-036-963	AGH-L150BL		Matte Black/Anodised							–	–
G	3D	100-036-964	AGH-L200SL		Matte Silver/Anodised	224	176	200			240	–	–
G	3D	100-036-965	AGH-L200BL		Matte Black/Anodised							–	–
G	3D	100-044-389	AGH-L250SL		Matte Silver/Anodised	274	226	250			289	–	–
G	3D	100-044-390	AGH-L250BL		Matte Black/Anodised							–	–
G	3D	100-036-966	AGH-L350SL		Matte Silver/Anodised	374	326	350			387	–	–
G	3D	100-036-967	AGH-L350BL		Matte Black/Anodised							–	–
G	3D	100-036-968	AGH-L500SL		Matte Silver/Anodised	524	476	500			536	–	–
G	3D	100-036-969	AGH-L500BL		Matte Black/Anodised							–	–

RoHS	CAD	Item Code	Item Name	Material	Finish	L1	L2	H1	H2	P	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-036-958	AGH-T350SL	Aluminium Alloy	Matte Silver/Anodised	374	326	62	38	350	350	36	402	–	–
G	3D	100-036-959	AGH-T350BL		Matte Black/Anodised									–	–
G	3D	100-036-960	AGH-T500SL		Matte Silver/Anodised	524	476	64	40	500			553	–	–
G	3D	100-036-961	AGH-T500BL		Matte Black/Anodised									–	–

ALUMINIUM GRIP HANDLE AGH-F Offset Type

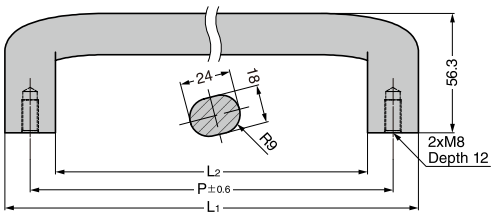
TEST METHOD 20

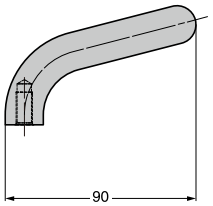


●Handles that are delightful to hold.

[Applications]

●Handle for operation panel.







Video Link

RoHS	CAD	Item Code	Item Name	Material	Finish	L1	L2	P	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-036-970	AGH-F300SL	Aluminium Alloy	Matte Silver/Anodised	324	276	300	500	51	443	–	–
G	3D	100-036-971	AGH-F300BL		Matte Black/Anodised							–	–
G	3D	100-036-972	AGH-F400SL		Matte Silver/Anodised	424	376	400			540	–	–
G	3D	100-036-973	AGH-F400BL		Matte Black/Anodised							–	–

ALUMINIUM DOOR HANDLE SRH Antibacterial Type

TEST METHOD 20 ANTIBACTERIAL

Toughness & Beautility HANDLE

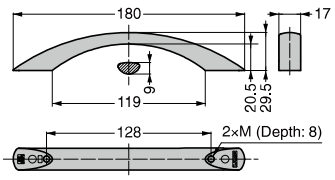
- Sleek handle with flowing curve design.
- Designed to protrude only a small amount.
- Has anti-bacterial coating.

[Applications]

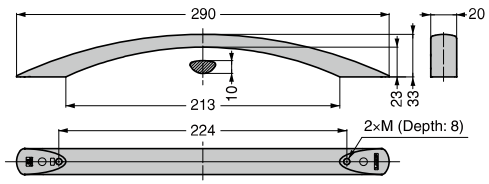
- Medical and diagnostic equipment.



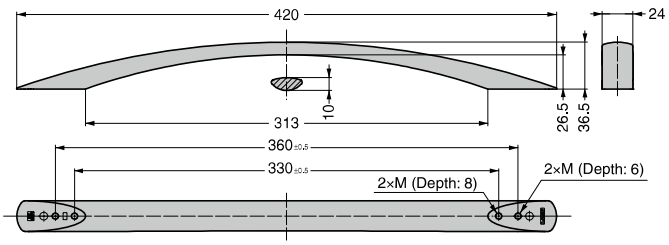
SRH-128SL SRH-224SL SRH-330SL SRH-330BL



SRH-128



SRH-224



SRH-330

RoHS	CAD	Item Code	Item Name	Material	Finish/Colour	M	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-044-288	SRH-128SL-M4	Aluminium Alloy (ADC)	Silver Enamel Finish	4	500	51	68	10	80
G	3D	100-044-289	SRH-128SL-M5			5				10	80
G	3D	100-044-290	SRH-128BL-M4		Matt Black Enamel Finish	4				10	80
G	3D	100-044-291	SRH-128BL-M5			5				10	80
G	3D	100-044-292	SRH-224SL-M4		Silver Enamel Finish	4			130	10	80
G	3D	100-044-293	SRH-224SL-M5			5				10	80
G	3D	100-044-294	SRH-224BL-M4		Matt Black Enamel Finish	4				10	80
G	3D	100-044-295	SRH-224BL-M5			5				10	80
G	3D	100-044-296	SRH-330SL-M4		Silver Enamel Finish	4	400	41	233	10	40
G	3D	100-044-297	SRH-330SL-M5			5				10	40
G	3D	100-044-298	SRH-330BL-M4		Matt Black Enamel Finish	4				10	40
G	3D	100-044-299	SRH-330BL-M5			5				10	40

ALUMINIUM DOOR HANDLE ASH

TEST METHOD 20

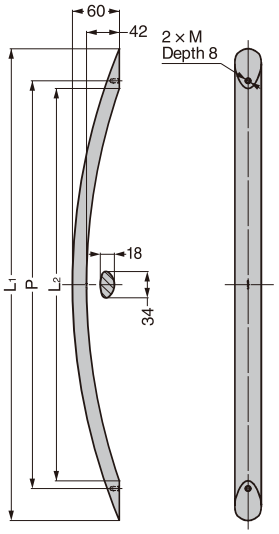


[Remarks]

- Designed for single-sided mount. (Not available with double-sided mount)

[Recommended Screw]

- M6 screw, M8 screw



[3 Finishes]



RoHS	CAD	Item Code	Item Name	Material	Finish/Colour	L_1	L_2	P	M	Load Capacity N	Load Capacity kgf	Weight (g)	Box (psc)
G	3D	100-042-506	ASH-400SL	Aluminium Alloy	Satin and Silver/Anodised	391.9	323	335	M6	500	51	482	10
G	3D	100-042-507	ASH-400BL		Satin and Black/Anodised								10
G	3D	100-042-508	ASH-400ST		Satin and Stainless Steel/Anodised								10
G	3D	100-042-509	ASH-600SL		Satin and Silver/Anodised	604	502	522				725	10
G	3D	100-042-510	ASH-600BL		Satin and Black/Anodised								10
G	3D	100-042-511	ASH-600ST		Satin and Stainless Steel/Anodised								10
G	3D	100-042-512	ASH-800SL		Satin and Silver/Anodised	822.7	686	710	M8			978	5
G	3D	100-042-513	ASH-800BL		Satin and Black/Anodised								5
G	3D	100-042-514	ASH-800ST		Satin and Stainless Steel/Anodised								5

ALUMINIUM DOOR HANDLE SOR

Toughness & Beautility HANDLE

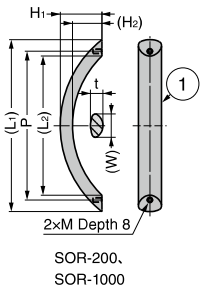


- Flowing cureves that adapt gracefully to any surface.
- Other handle sizes are possible at surcharge.

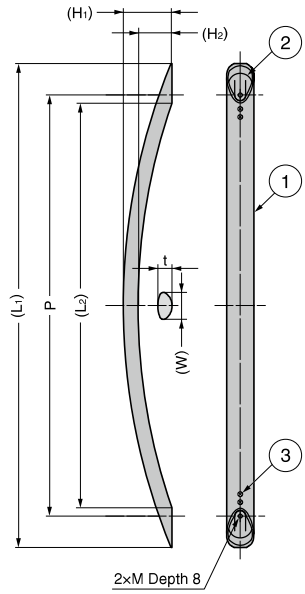
[Applications]
- Machine tools and railway vehicles, etc.

[Remarks]
- For single-sided mount. Cannot be used for double-sided mount.

[Recommended Screws]
- M6 screw, M8 screw



SOR-200、SOR-1000



SOR-400、SOR-600、SOR-800

Video Link

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

※SCS13 is equivalent to 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)
G	3D	100-028-297	SOR-200S	Stainless Steel/Anodised	222	180	192	54	38	30	16	M6	490	50	228	10
G	3D	100-028-298	SOR-200BL	Black/Anodised												10
G	3D	100-010-961	SOR-400S	Stainless Steel/Anodised	392	323	335	60	42	34	18				385	30
G	3D	100-010-963	SOR-400BL	Black/Anodised												30
G	3D	100-010-962	SOR-600S	Stainless Steel/Anodised	604	502	522								495	20
G	3D	100-010-964	SOR-600BL	Black/Anodised												20
G	3D	100-010-960	SOR-800S	Stainless Steel/Anodised	823	686	710					M8			605	15
G	3D	100-010-965	SOR-800BL	Black/Anodised												15
G	3D	100-028-299	SOR-1000S	Stainless Steel/Anodised	1090	939.8	975	80	59.8	38	20.2				1647	4
G	3D	100-028-300	SOR-1000BL	Black/Anodised												4

EXTRUDED ALUMINIUM HANDLE ALH

TEST METHOD 20

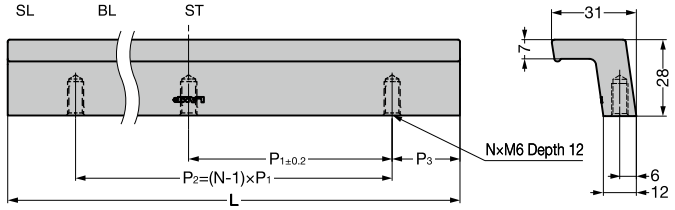




- Stylish in form and function.
- Design innovations include anti-slip bump along the edges and angled surface to prevent dust accumulation.

[Applications]

- Control equipment, measuring equipment, drawers, etc.



RoHS	CAD	Item Code	Item Name	Material	Finish	L	P1	P2	P3	N	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-037-006	ALH-50SL	Aluminium Alloy	Matte Silver Anodised	50	30	30	10	2	500	51	58	–	–
G	3D	100-037-007	ALH-50BL		Matte Black Anodised									–	–
G	3D	100-037-008	ALH-50ST		Satin and Stainless Steel Anodised									–	–
G	3D	100-037-009	ALH-100SL		Matte Silver Anodised	100	60	60	20				118	–	–
G	3D	100-037-010	ALH-100BL		Matte Black Anodised									–	–
G	3D	100-037-011	ALH-100ST		Satin and Stainless Steel Anodised									–	–
G	3D	100-037-012	ALH-150SL		Matte Silver Anodised	150	100	100	25				178	–	–
G	3D	100-037-013	ALH-150BL		Matte Black Anodised									–	–
G	3D	100-037-014	ALH-150ST		Satin and Stainless Steel Anodised									–	–
G	3D	100-037-015	ALH-200SL		Matte Silver Anodised	200	75	150		3			237	–	–
G	3D	100-037-016	ALH-200BL		Matte Black Anodised									–	–
G	3D	100-037-017	ALH-200ST		Satin and Stainless Steel Anodised									–	–
G	3D	100-037-018	ALH-1000SL		Matte Silver Anodised	1000	150	900	50	7			1191	–	–
G	3D	100-037-019	ALH-1000BL		Matte Black Anodised									–	–
G	3D	100-037-020	ALH-1000ST		Satin and Stainless Steel Anodised									–	–

Video Link

ALUMINIUM DOOR HANDLE SYH

TEST METHOD 20 ANTIBACTERIAL

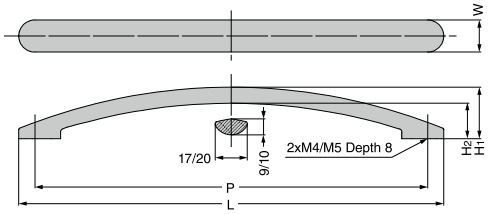




- A flowing handle with a feature line down the centre.
- Aluminium material and streamline shape create a soft impression. Low profile design ensures that the handle will not noticeably protrude.
- With anti-bacterial coating to reduce risk of infection.

[Applications]

- Medical and analytical equipment, etc.



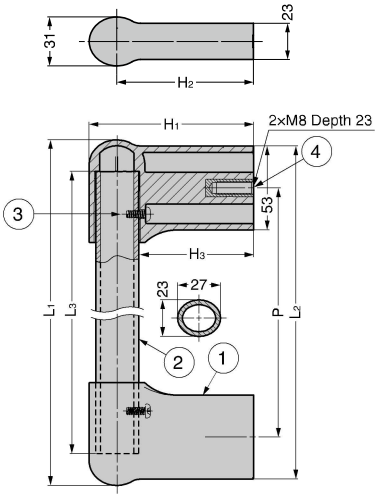
Video Link

RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	H1	H2	W	M	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-037-002	SYH-128SL-M4	Aluminium Alloy	Antibacterial Paint/Silver	165	128	30	21	17	M4	500	51	53	10	80
G	3D	100-037-003	SYH-128SL-M5								M5				10	80
G	3D	100-037-004	SYH-224SL-M4			264	224	32	22	20	M4			105	10	80
G	3D	100-037-005	SYH-224SL-M5								M5				10	80
G	3D	100-043-685	SYH-128BL-M4		Antibacterial Paint/Black	165	128	30	21	17	M4			53	10	80
G	3D	100-043-686	SYH-128BL-M5								M5				10	80
G	3D	100-043-687	SYH-224BL-M4			264	224	32	22	20	M4			105	10	80
G	3D	100-043-688	SYH-224BL-M5								M5				10	80

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 5×12	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

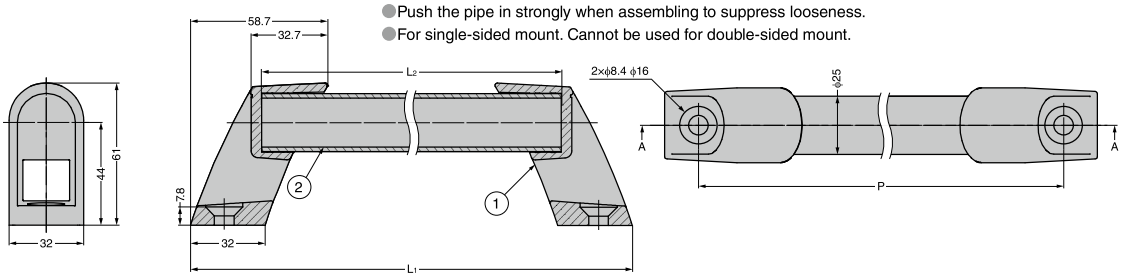


- Possible to fix with screws from the front.
- 4 lengths of pipes are available. By cutting the pipe, the handle length can be changed freely.
- Other handle sizes are possible at surcharge. For lot quantity and available lengths, please contact local representatives.
- High precision assembly of pipe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



A-A Cutaway view

[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	–	130
–	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	–	70
–	3D	100-035-465	APH-P600	628.9	568	600	287.9	–	70

DESIGN DOOR HANDLE MDH

TEST METHOD 1 | INSTRUCTION | SUS



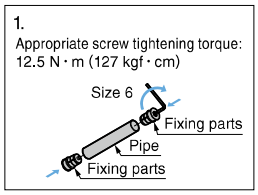
- Brackets and pipes can be combined freely.
- Two types of brackets available: In-line type and offset type.
- Pipes are made of stainless steel or carbon fibre reinforced plastic, either has 5 lengths available. By cutting the pipe, the total length can be changed freely.
- Carbon fibre reinforced 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.

Video Link

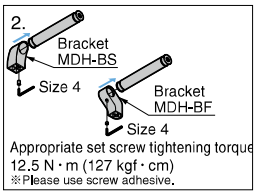
[Applications]
- Machine tools and large doors, etc.

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

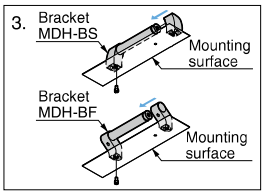
[How to Install]



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]

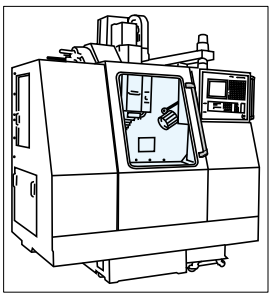

MDH-BS
(Straight type)


MDH-BF
(Offset type)

[Fixing Parts]
Attached to the bracket

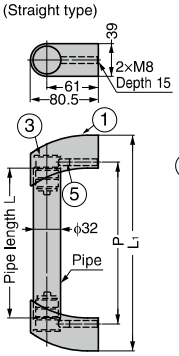


[Application Example]

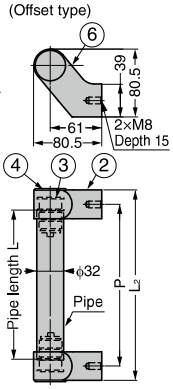


[Installation of Bracket and Pipe]

Bracket MDH-BS
(Straight type)



Bracket MDH-BF
(Offset type)





[Bracket]

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

[Bracket]

RoHS	CAD	Item Code	Item Name	Type	Parts	Weight (g)	Box (sets)	Carton (sets)
G	3D	100-022-158	MDH-BS	Straight	①③⑤ (Each 2 pcs)	1010	1	1
G	3D	100-022-159	MDH-BF	Offset	②③④⑥ (Each 2 pcs)	1122	1	1

[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)
G	3D	100-022-161	MDH-PS192	Stainless Steel (SUS304)	Satin	177	256	226	192	2	490	50	384	1	10
G	3D	100-022-162	MDH-PS350			335	414	384	350				727	1	10
G	3D	100-022-163	MDH-PS500			485	564	534	500				1050	1	10
G	3D	100-022-164	MDH-PS800			785	864	834	800				1700	1	10
G	3D	100-022-165	MDH-PS1200			1185	1264	1234	1200				2570	1	7
G	3D	100-022-166	MDH-PC192	Carbon Fibre Reinforced Polymer (CFRP)	Paint/ Clear	177	256	226	192	2.5			70	1	1
G	3D	100-022-167	MDH-PC350			335	414	384	350				132	1	1
G	3D	100-022-168	MDH-PC500			485	564	534	500				191	1	1
G	3D	100-022-169	MDH-PC800			785	864	834	800				309	1	1
G	3D	100-022-170	MDH-PC1200			1185	1264	1234	1200				467	1	1

Refer to 1 : P.700

STAINLESS STEEL DOOR HANDLE SLH

TEST METHOD 20 SUS

Toughness & Beautility HANDLE

- All parts are made of stainless steel for high corrosion resistance.
- Has smooth streamlined shape and premium satin finish.
- Ergonomically designed. It is easy to hold any part of the handle.

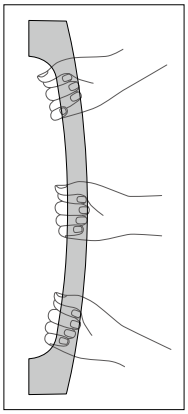


SLH-3240SH

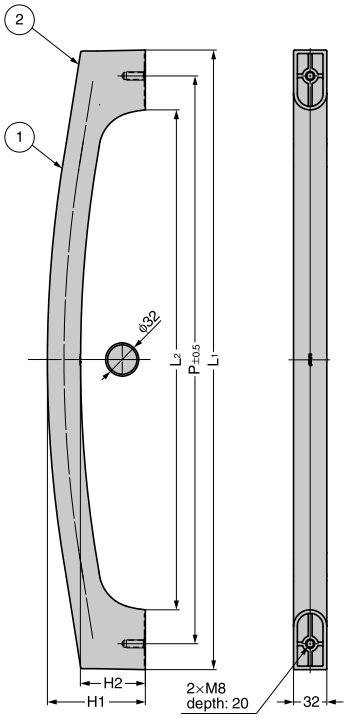
SLH-3260SH

SLH-3280SH

[Ergonomic Design]



Easy to hold any part of the handle.



[Premium Satin Finish]



No.	Part Name	Material
①	Pipe	Stainless Steel (SUS304)
②	Bracket	Stainless Steel (SCS13)

RoHS	CAD	Item Code	Item Name	Finish	L_1	L_2	P	H_1	H_2	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pc)
G	3D	100-045-419	SLH-3240SH	Satin	400	284	350	87	55	600	61	2030	1
G	3D	100-045-420	SLH-3260SH		600	484	550	95	63			2290	1
G	3D	100-045-421	SLH-3280SH		800	684	750	102	70			2560	1

Zwei L STAINLESS STEEL DOOR HANDLE ZL-1508

SUS316 TEMPERED GLASS HEX KEY




The curving design is sharp.


Zwei L Finish



- The curving design is sharp.
- Ultrapremium Zwei L finish. Zwei L finish: Using top class polishing technology, these products combine the elegance of Satin with the deep glow of a Mirror.
- Made of highly corrosion resistant SUS316.
- Can be installed on both sides of glass, metal or wooden doors. Can also be installed on a single side of glass, wood or metal doors.

[Specifications]

- Dual side handle sets ZL-1508-WN are attached by ZL-1508-OS (for the outside) and ZL-1508-IS (for the inside).

[Parts Included]

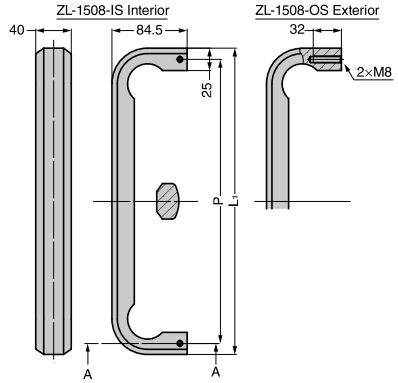
- ZL-1508-IS (single side specs): Hex key, hex socket set screw, mounting bracket
  ZL-1508-WN (dual side specs): Hex key, bolt set

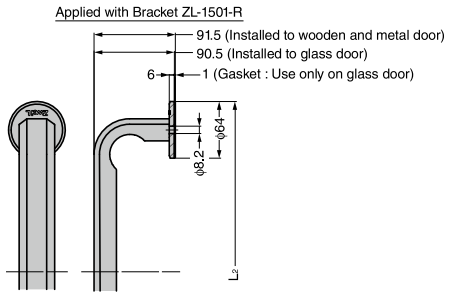
[Optional Parts]

- Bracket ZL-1501-R

[Remarks]

- Screws are not included in ZL-1508-OS and ZL-1508-IS. Prepare screws suitable for the door specifications.
- Bore holes with ±1 mm tolerance.
- While dimensions and installation are not expected to change, there may be changes to the internal structure. Please take note.
- When installing on a door outside the applicable thickness range, prepare separate bolts.





[Bracket ZL-1501-R (Sold Separately)]

Sold in pairs (2 pcs).

RoHS	CAD	Item Code	Item Name
G	–	100-011-015	ZL-1501-R

※Limited stock available. Please contact your local agent or your nearest Sugatsune subsidiary for detail/availability.

[Body]

RoHS	CAD	Item Code	Item Name	Type	Material	Finish	L_1	L_2	P
G	3D	100-048-628	ZL-1508-OS-320	Exterior	Stainless Steel (SUS316)	Zwei L Finish	345	384	320
G	3D	100-048-629	ZL-1508-IS-320	Interior					
G	3D	100-048-632	ZL-1508-WN-320	Back-to-Back					
G	3D	100-048-630	ZL-1508-OS-640	Exterior			665	704	640
G	3D	100-048-631	ZL-1508-IS-640	Interior					
G	3D	100-048-633	ZL-1508-WN-640	Back-to-Back					

ZweiL STAINLESS STEEL DOOR HANDLE ZL-1507

SUS316 TEMPERED GLASS HEX KEY



- The curving design is sharp.
- Ultrapremium Zwei L finish. Zwei L finish: Using top class polishing technology, these products combine the elegance of Satin with the deep glow of a Mirror.
- Made of highly corrosion resistant SUS316.
- Can be installed on both sides of glass, metal or wooden doors. Can also be installed on a single side of glass, wood or metal doors.

[Specifications]

- Dual side handle sets ZL-1507-WN are attached by ZL-1507-OS (for the outside) and ZL-1507-IS (for the inside).

[Parts Included]

- ZL-1507-IS (single side specs): Hex key, hex socket set screw, mounting bracket
  ZL-1507-WN (dual side specs): Hex key, bolt set

[Optional Parts]

- Bracket ZL-1507-R

[Remarks]

- Screws are not included in ZL-1507-OS and ZL-1507-IS. Prepare screws suitable for the door specifications.
- Bore holes with ±1 mm tolerance.
- While dimensions and installation are not expected to change, there may be changes to the internal structure. Please take note.
- When installing on a door outside the applicable thickness range, prepare separate bolts.

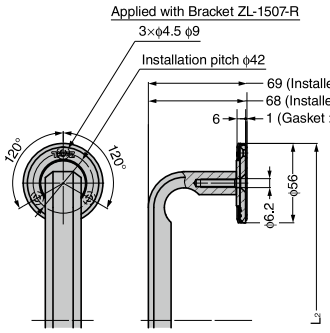


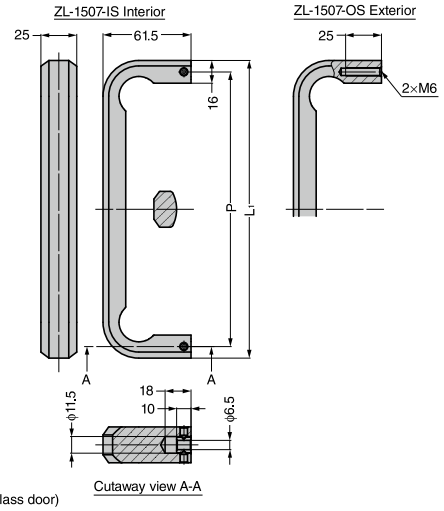
The curving design is sharp.



Zwei L Finish







[Bracket ZL-1507-R (Sold Separately)]

Sold in pairs (2 pcs).

RoHS	CAD	Item Code	Item Name
G	–	100-048-634	ZL-1507-R

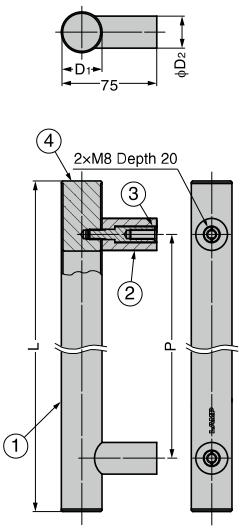
[Body]

RoHS	CAD	Item Code	Item Name	Type	Material	Finish	L_1	L_2	P
G	3D	100-048-619	ZL-1507-OS-192	Exterior	Stainless Steel (SUS316)	Zwei L Finish	208	248	192
G	3D	100-048-620	ZL-1507-IS-192	Interior					
G	3D	100-048-625	ZL-1507-WN-192	Back-to-Back					
G	3D	100-048-621	ZL-1507-OS-320	Exterior			336	376	320
G	3D	100-048-622	ZL-1507-IS-320	Interior					
G	3D	100-048-626	ZL-1507-WN-320	Back-to-Back					
G	3D	100-048-623	ZL-1507-OS-640	Exterior			656	696	640
G	3D	100-048-624	ZL-1507-IS-640	Interior					
G	3D	100-048-627	ZL-1507-WN-640	Back-to-Back					

STAINLESS STEEL DOOR HANDLE SSH

SUS





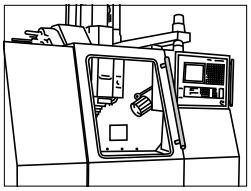
- Stainless steel handle with simple design.
- Other handle sizes are possible at surcharge. For lot quantity and available lengths, please contact local representatives.

[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]

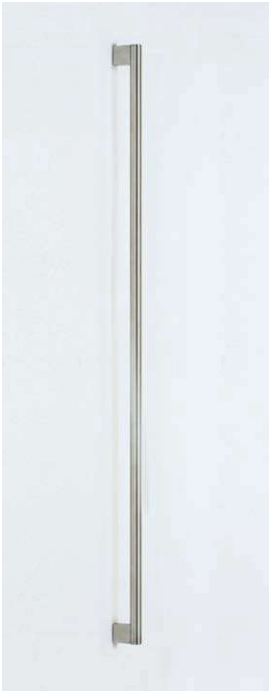


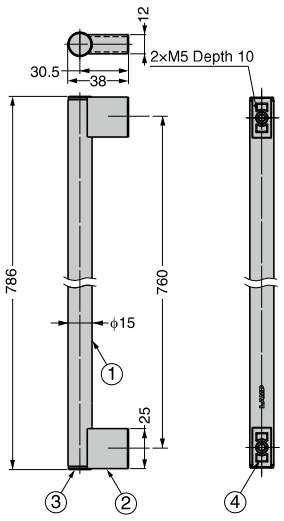
No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Stem		
③	Screws		
④	Cover		

RoHS	CAD	Item Code	Item Name	L	P	D1	D2	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-181-413	SSH-2540	400	316	25	19	665	10	–
G	3D	100-181-414	SSH-2560	600	516			750	10	–
G	3D	100-181-415	SSH-2580	800	716			840	10	–
G	3D	100-049-978	SSH-25115	1150	1066			1210	5	–
G	3D	100-181-416	SSH-3240	400	316	32	25	1175	5	–
G	3D	100-181-417	SSH-3260	600	516			1290	5	–
G	3D	100-181-418	SSH-3280	800	716			1400	5	–

STAINLESS STEEL DOOR HANDLE RH-760

SUS





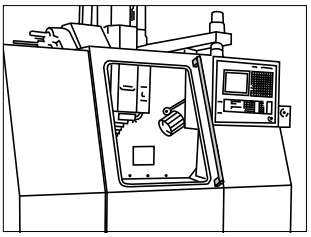
- Stainless steel handle with small projection from mounting surface and simple design.
- Other handle sizes are possible at surcharge. For lot quantity and available lengths, please contact local representatives.

[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]



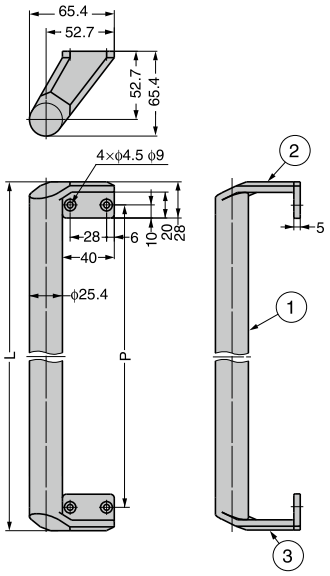
No.	Part Name	Material	Finish / Colour
①	Pipe	Stainless Steel (SUS304)	Satin
②	Stem		
③	End Cap	Stainless Steel (SUS303)	
④	Spacer	PP	Natural

RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-010-341	RH-760	340	–	20

STAINLESS STEEL DOOR HANDLE MP

SUS316





No.	Part Name	Material
①	Pipe	Stainless Steel (SUS316)
②	Strike Plate (L)	Stainless Steel (SCS14)
③	Strike Plate (R)	Stainless Steel (SCS14)

- 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)
G	3D	100-010-500	MP-500	Stainless Steel (SUS316)	Polished	500	464	1000	2	20
G	3D	100-010-501	MP-750			750	714	1300	2	16
G	3D	100-010-502	MP-1000			1000	964	1600	2	12

STAINLESS STEEL HANDLE MG SEMI Compliance

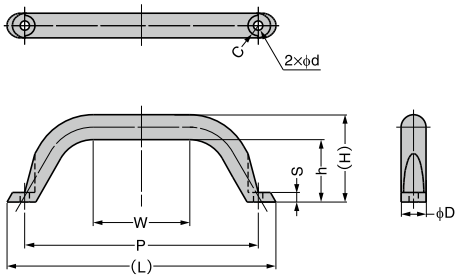
TEST METHOD 1 NSF SUS316



- 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-270T, 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)
G	3D	100-010-483	MG-150	Stainless Steel (SUS316)	Polished	172.8	56	150	16	62	40	6	R6.5	6	295	10	40
G	3D	100-010-484	MG-190			216.7	63	190	18	92	45	8	R7.5	7	460	5	20
G	3D	100-010-485	MG-250			275.5	68	250		145	50				595	5	20
G	3D	100-021-952	MG-230T			260	70	230	20	129		10	R9	9	665	5	20
G	3D	100-048-361	MG-270T			302	76	270	26	158			R9.5		1330	1	6
G	3D	100-021-953	MG-300T			330	70	300	20	199			R9		820	5	20

STAINLESS STEEL HANDLE FT-R

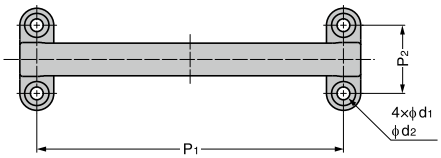
SUS

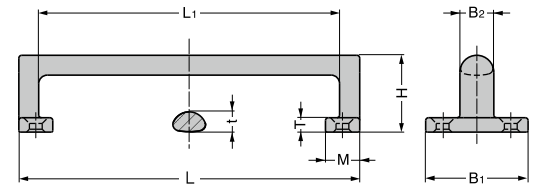


- A rounded handle for a comfortable grip.
- Wide grip.

[Parts Included]

- FT-R-120: Raised countersunk head tapping screw 4×20 (SUS)
- FT-R-160: Raised countersunk head tapping screw 5×25 (SUS)





RoHS	CAD	Item Code	Item Name	Material	Finish	L	L1	B1	B2	H	T	t	M	P1	P2	d1	d2	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-034-130	FT-R-120	Stainless Steel (SCS13)	Polished	120	106	36	12	27	5.5	7	12	108	24	4.5	8.5	140	10	60
G	3D	100-034-131	FT-R-160			160	142	48	16.3	36	7	9	16	144	32	5.5	10.5	285	5	20

※SCS13 is equivalent to SUS304.

STAINLESS STEEL HANDLE FT-T

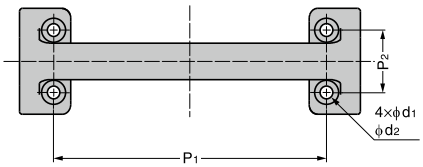
SUS316

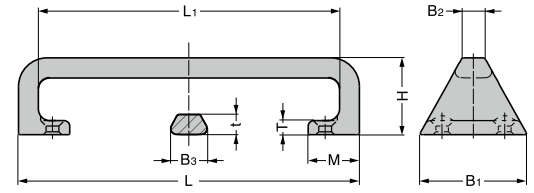


- A shape with heavy feeling and rounded inside allows for easy gripping.
- Wide grip.

[Parts Included]

- FT-T-120: Raised countersunk head tapping screw 4×20 (SUS)
- FT-T-170: Raised countersunk head tapping screw 5×25 (SUS)
- FT-T-220: Raised countersunk head tapping screw 6×35 (SUS)





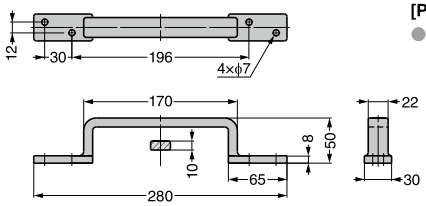
RoHS	CAD	Item Code	Item Name	Material	Finish	L	L1	B1	B2	B3	H	T	t	M	P1	P2	d1	d2	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-034-132	FT-T-120	Stainless Steel (SCS14)	Polished	120	105	39.3	10	15.1	28.5	6	7	19	96	24	4.5	8.5	225	10	40
G	3D	100-034-133	FT-T-170			170	150	53.3	12	18.7	38	7.5	10	25.5	135	32	5.5	10.5	500	5	20
G	3D	100-034-134	FT-T-220			220	200	69.3	15	24.3	49.5	9.3	13	32.5	176	41	6.5	12.5	1000	1	10

※SCS14 is equivalent to 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)
G	3D	100-010-071	FT-S280	Stainless Steel (SCS14)	Polished	612	1	20

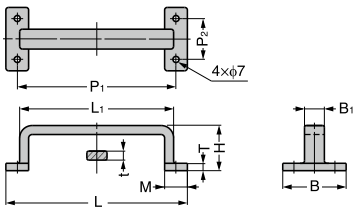
※Limited stock available. Please contact your local agent or your nearest Sugatsune subsidiary for detail/availability.

※SCS14 is equivalent to 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	L_1	B	B_1	H	T	t	M	P_1	P_2	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-010-069	FT-200	Stainless Steel (SCS14)	Polished	200	170	70	22	50	8	10	25	175	45	586	1	20
G	3D	100-010-070	FT-280			280	250	80	26	62	10	12	27	253	55	1088	1	10

※SCS14 is equivalent to SUS316.

HANDLE (STAINLESS, TITANIUM) 2LC

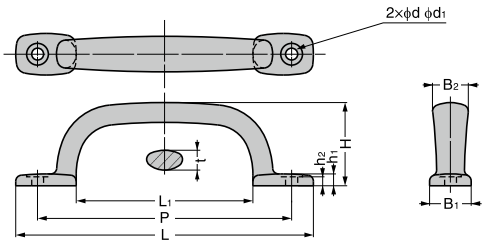
NSF TITANIUM SUS316



- 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.

[Parts Included]
- For only stainless handle: Pan head tapping screw (SUS)



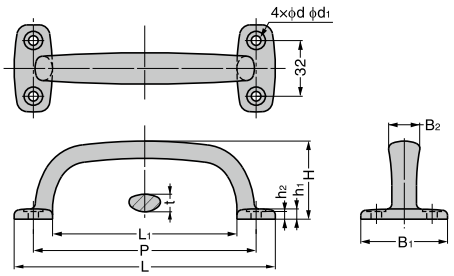
RoHS	CAD	Item Code	Item Name	Material	Finish	L	L_1	P	B_1	B_2	H	h_1	h_2	t	d	d_1	Weight (g)	Included Screws	Recommended Screws	Box (pcs)	Carton (pcs)
–	3D	100-010-355	2LC-80TI	Titanium	Shot Blast	80	32	64	16	14	35	5.5	4	8	5	9.5	37	–	M4	30	144
–	3D	100-010-354	2LC-120TI			120	64	96	18	16	36		4.5	9			62			20	96
–	3D	100-010-353	2LC-150TI			150	89	128	21	18	42	6		10	6	11	96		M5	6	72
G	3D	100-010-131	2LC-80	Stainless Steel (SCS14)	Polished	80	32	64	16	14	35	5.5	4	8	5	9.5	70	4×20	M4	12	144
G	3D	100-010-132	2LC-120			120	64	96	18	16	36		4.5	9			106			8	96
G	3D	100-010-133	2LC-150			150	89	128	21	18	42	6		10	6	11	172	5×30	M5	6	72
G	3D	100-010-134	2LC-180			180	118	160	23	20	45	6.5	5				225			3	36

※SCS14 is equivalent to 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

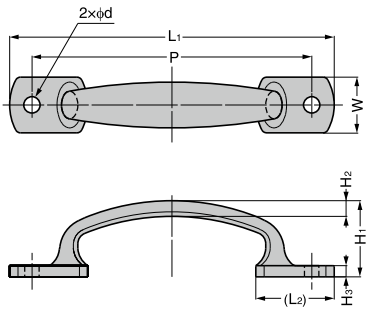
RoHS	CAD	Item Code	Item Name	Material	Finish	L	L1	P	B1	B2	H	h1	h2	t	d	d1	Weight (g)	Recommended Screw	Box (pcs)	Carton (pcs)
G	3D	100-010-135	4LC-82	Stainless Steel (SCS14)	Polished	82	46	64	48	16	36.5	5.5	4	8	5	9.5	110	M4	8	96
G	3D	100-010-136	4LC-114			114	78	96			40	6	4.5	9			148		6	72
G	3D	100-010-137	4LC-150			150	106	128	50	18	45			10	6	11	210	M5	3	36
G	3D	100-010-138	4LC-180			180	140	160		20	48	6.5	5				270		2	24

※SCS14 is equivalent to SUS316.

STAINLESS STEEL HANDLE 3LC

SUS





[Applications]
●Indoor and outdoor medium sized doors.

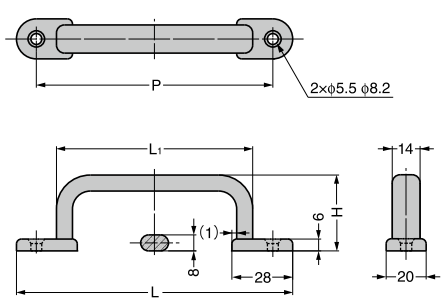
RoHS	CAD	Item Code	Item Name	Material	Finish	L1	L2	W	H1	H2	H3	P	d	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-019-846	3LC-120	Stainless Steel (SCS14)	Polished	120	29	20	30	6	5	105	5.5	90	100	–
G	3D	100-019-845	3LC-130	Stainless Steel (SCS13)		130	30	22	33	7	6	115		120	–	–
G	3D	100-019-747	3LC-145	Stainless Steel (SCS14)		145	35	25	34			125	6.5	155	150	–

※SCS14 is equivalent to SUS316.
※SCS13 is equivalent to SUS304.

STAINLESS STEEL HANDLE EC-Y

SUS





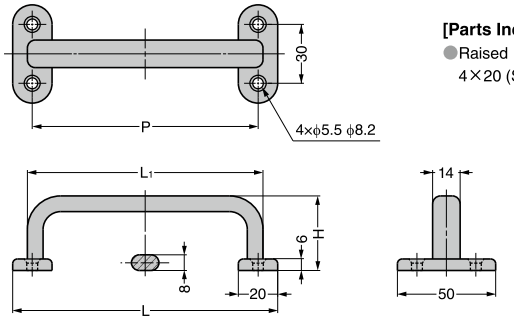
[Parts Included]
●Raised countersunk head tapping screw 4×20 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	L	L1	H	P	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-012-831	EC-Y-140	Stainless Steel (SUS303)	Polished	138	100	38	120	142	5	100
G	3D	100-012-832	EC-Y-160			158	120	40	140	160	3	51
G	3D	100-012-833	EC-Y-190			188	150	42	170	185	2	50

STAINLESS STEEL HANDLE EC-H

SUS





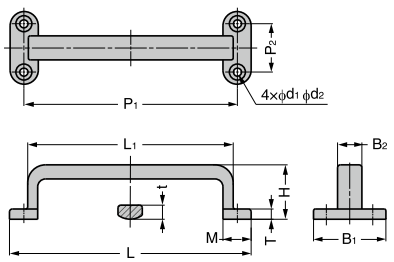
[Parts Included]
- Raised countersunk head tapping screw 4×20 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	L	L1	H	P	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-010-056	EC-H-135	Stainless Steel (SUS303)	Polished	135	120	40	115	191	5	50
G	3D	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

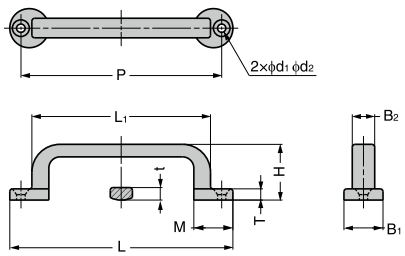
RoHS	CAD	Item Code	Item Name	Material	Finish	L	L1	B1	B2	H	T	t	M	P1	P2	d1	d2	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-010-067	FT-120	Stainless Steel (SCS13)	Polished	120	102	36	12	27	5	7	14	106	24	4.1	8	105	10	120
G	3D	100-010-068	FT-150			150	129	45	15	33	6	8	18	132	30	5.3	10.4	191	5	40

※SCS13 is equivalent to 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

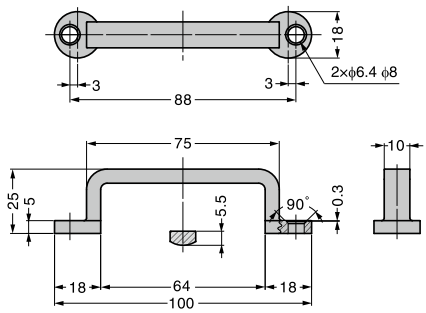
RoHS	CAD	Item Code	Item Name	Material	Finish	L	L1	B1	B2	H	T	t	M	P	d1	d2	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-012-847	FT-65	Stainless Steel (SCS13)	Polished	65	47	13	7	16	3.5	4	13	57	3.3	6.4	19	40	480
G	3D	100-012-848	FT-80			80	61	14	8	20	4	4.5	14	72			32	30	360
G	3D	100-012-849	FT-100			100	75	18	10	25	5	5.5	18	88	4.1	8	58	20	240

※SCS13 is equivalent to SUS304.

STAINLESS STEEL HANDLE FT-100-6.4

SUS





- Wider mounting hole relative to conventional FT handle.

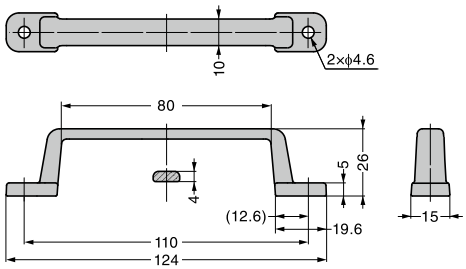
RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-019-167	FT-100-6.4	Stainless Steel (SCS13)	Polished	54	20	200

※SCS13 is equivalent to SUS304.

STAINLESS STEEL HANDLE FT-110S

SUS





[Recommended Screws]
- M4 screw

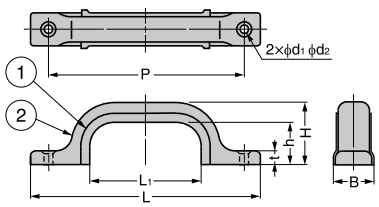
RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-019-029	FT-110S	Stainless Steel (SCS13)	Satin	60	50	200

※SCS13 is equivalent to 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 1 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)
G	3D	100-012-243	US-70S	Satin	70	20	54	17	28	21	5.5	3.3	6.6	20	3.1×16	20	200
G	3D	100-012-240	US-70M	Polished												20	200
G	3D	100-012-244	US-120S	Satin	120	57	102	19	32		6.5	3.8	7.6	45	3.5×20	20	200
G	3D	100-012-241	US-120M	Polished												20	200
G	3D	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
G	3D	100-012-242	US-160M	Polished												10	100

Refer to 1 : P.688

HANDLE KMH

TEST METHOD 1



※Caps are sold separately.

- 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.

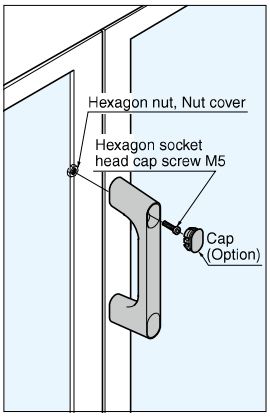
[Remarks]
- Truss head screws can not be used.
- Caps are sold separately. Sold by piece. Please order together with handle.

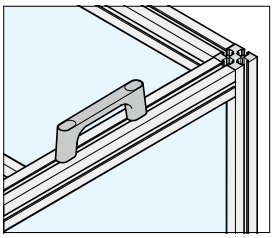
[Recommended Screws]
- Hexagon socket head cap screw M5 or Pan head screw M5

[Caps] Option



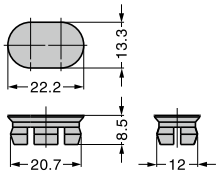
[Installation]

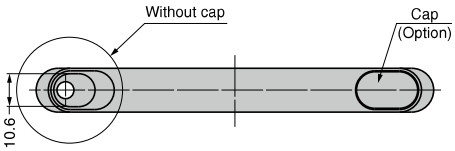


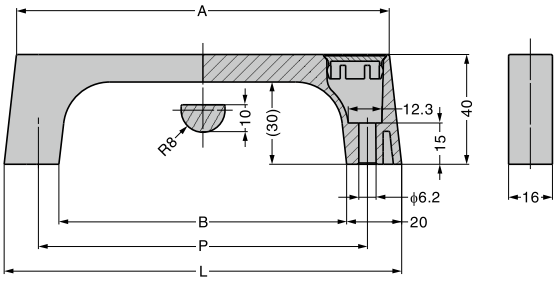


[Without Cap]









Video Link

[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)
G	3D	100-024-063	KMH-100	Zinc Alloy (ZDC)	Satin Chrome	125	116	85	100	500	51	162	10	100
G	3D	100-024-064	KMH-120			145	136	105	120			180	10	60
G	3D	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)
G	–	100-024-066	KMHC-WT	PBT	White	0.7	100	2000
G	–	100-024-067	KMHC-GR		Grey		100	2000
G	–	100-024-068	KMHC-BU		Light Blue		100	2000
G	–	100-024-924	KMHC-BL		Black		100	2000

HANDLE MJH

TEST METHOD 1



※Caps are sold separately.

- 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 screw is available for front mounting.
- Caps are sold separately. Sold by piece. Please order together with handle.

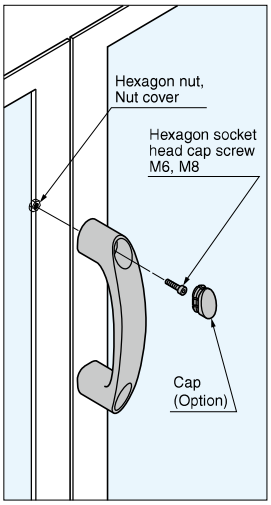
[Recommended Screws]

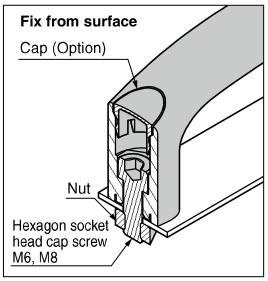
- MJH-93 : Hexagon socket head cap screw M6
- MJH-120, MJH-150 : Hexagon socket head cap screw M8

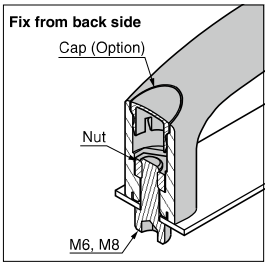
[Caps] Option

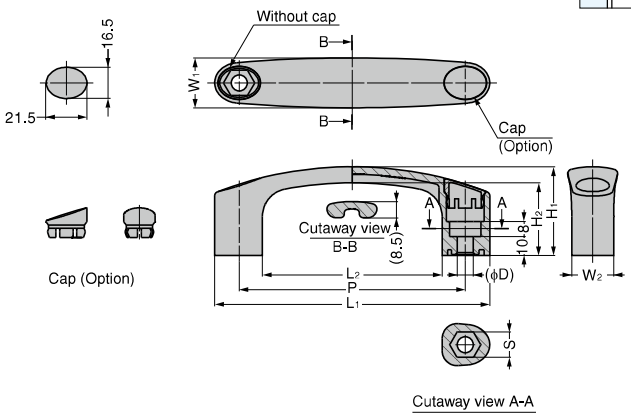


[Installation]









Cutaway view A-A

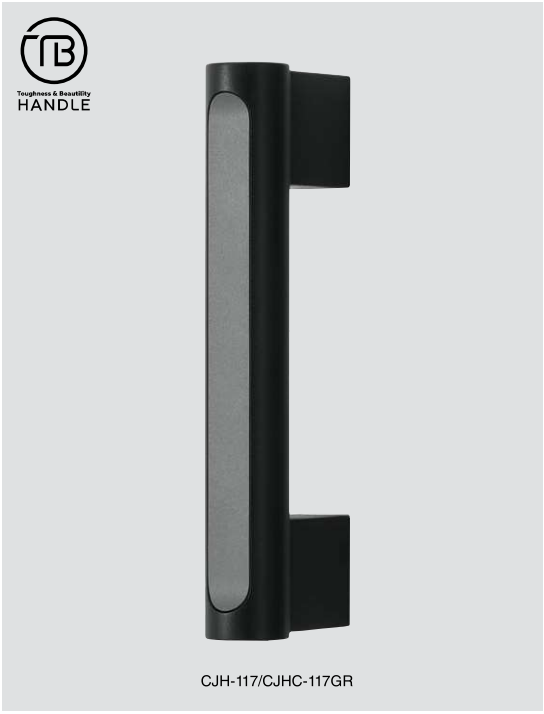
[Body]

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)
G	3D	100-026-534	MJH-93	Reinforced Nylon	Black	93	116.5	68.5	6.5	10.2	42	33.5	25	19.2	450	46	41	100	–
G	3D	100-026-535	MJH-120			120	143	96	8.5	13.2	47	38.5	26.5	19			48	50	–
G	3D	100-026-536	MJH-150			150	173	126			52	43.5	28	18.8			58	50	–

[Caps] Option (Sold by piece)

RoHS	CAD	Item Code	Item Name	Material	Colour	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-026-537	MJHC-BL	Reinforced Nylon	Black	1.4	100	–
G	3D	100-026-538	MJHC-GR		Grey		100	–
G	3D	100-026-539	MJHC-YE		Yellow		100	–

HANDLE CJH

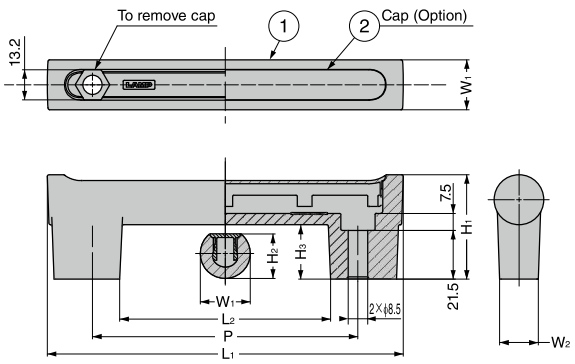


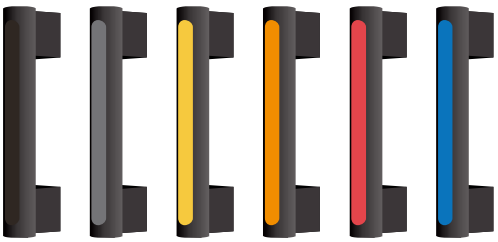
CJH-117/CJHC-117GR

- 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.

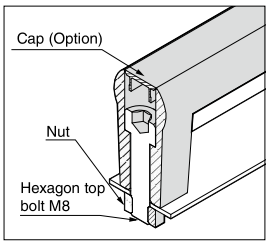
[Applications]

- Maintenance doors, etc.

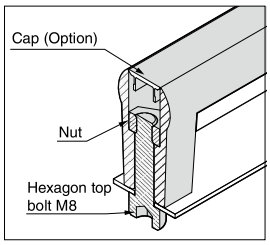




[Fix from surface]



[Fix from back side]



Video Link

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

[Body] Handle

RoHS	CAD	Item Code	Item Name	Colour	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)
G	3D	100-036-974	CJH-117	Black	157	93	22	17	46	19.5	24	117	500	51	64	50
G	3D	100-036-975	CJH-150		190	125.5	24	18.5	52	21.4	28	150			89	50

[Cap] Sold Separately

RoHS	CAD	Item Code	Item Name	Colour	Weight (g)	Available Handle	Box (pcs)
G	3D	100-036-976	CJHC-117BL	Black	5.6	CJH-117	100
G	3D	100-036-977	CJHC-117GR	Grey			100
G	3D	100-036-978	CJHC-117YE	Yellow			100
G	3D	100-036-979	CJHC-117YR	Orange			100
G	3D	100-036-980	CJHC-117RD	Red			100
G	3D	100-036-981	CJHC-117BU	Blue			100
G	3D	100-036-982	CJHC-150BL	Black	7.1	CJH-150	100
G	3D	100-036-983	CJHC-150GR	Grey			100
G	3D	100-036-984	CJHC-150YE	Yellow			100
G	3D	100-036-985	CJHC-150YR	Orange			100
G	3D	100-036-986	CJHC-150RD	Red			100
G	3D	100-036-987	CJHC-150BU	Blue			100

HANDLE SJH

Toughness & Beautility HANDLE

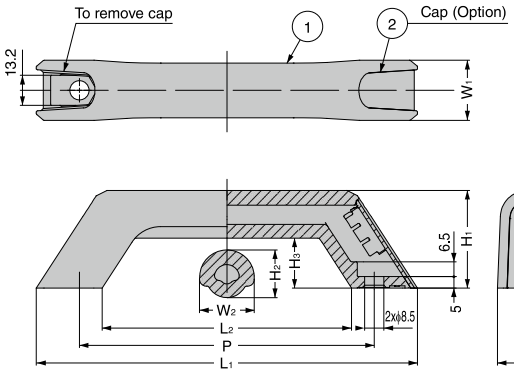


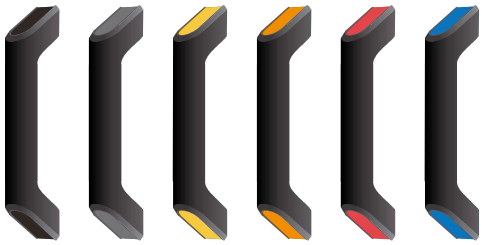
SJH-162/SJHC-162YR

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

[Applications]

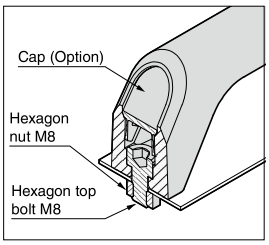
- Maintenance doors, etc.



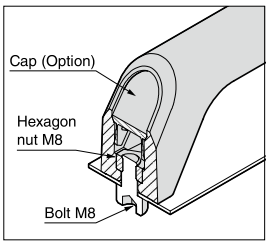


BL GR YE YR RD BU

[Front Side Mount]



[Back Side Mount]



Video Link

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

[Body]

RoHS	CAD	Item Code	Item Name	Material	L1	L2	W1	W2	H1	H2	H3	P	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-036-988	SJH-130	Reinforced nylon	168	110	26.5	24	43	21	22	130	500	51	76	40	160
G	3D	100-036-989	SJH-160		198	140	28.5	26	49	23	26	160			103	30	120

[Cap] Sold Separately

RoHS	CAD	Item Code	Item Name	Material	Colour	Compatible Model	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-036-990	SJHC-130BL	PA	Black	SJH-130	1.5	100	1000
G	3D	100-036-991	SJHC-130GR		Grey			100	1000
G	3D	100-036-992	SJHC-130YE		Yellow			100	1000
G	3D	100-036-993	SJHC-130YR		Orange			100	1000
G	3D	100-036-994	SJHC-130RD		Red			100	1000
G	3D	100-036-995	SJHC-130BU		Blue			100	1000
G	3D	100-036-996	SJHC-160BL		Black	SJH-160	1.9	100	1000
G	3D	100-036-997	SJHC-160GR		Grey			100	1000
G	3D	100-036-998	SJHC-160YE		Yellow			100	1000
G	3D	100-036-999	SJHC-160YR		Orange			100	1000
G	3D	100-037-000	SJHC-160RD		Red			100	1000
G	3D	100-037-001	SJHC-160BU		Blue			100	1000

HANDLE MH-P SEMI Compliance

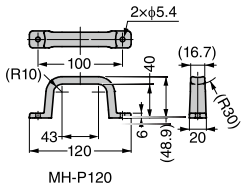
TEST METHOD 1



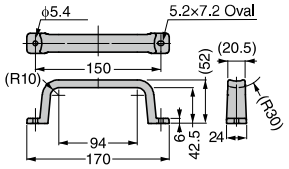
- Clear body suitable for acrylic, etc.
- Allows for easy gripping with glove on (compliant with SEMI standard, SEMI S8-0308).
- Made from weather-proof, chemical-resistance, lead-free PVC.

[Recommended Screws]

- M5 screw



MH-P120



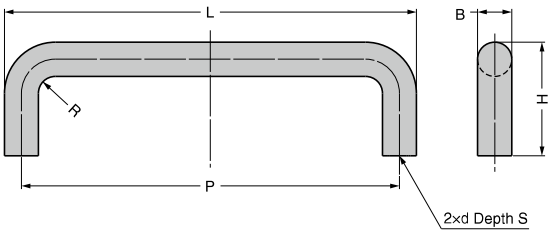
MH-P170

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

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)



[Handle]

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

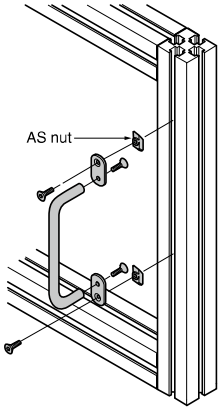
Refer to 1 : P.651, 2 : P.650

AS Parts Set for Installing to Aluminium Frame

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



[How to Install]



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

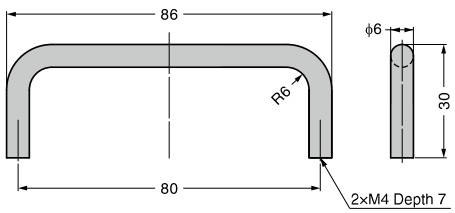
RoHS	CAD	Item Code	Item Name	Aluminium Frame	Parts	Weight (g)
G	–	100-041-484	AS-H-42-C-1-8	Groove Width 8 mm	Handle H-42-C-1 : 1pc Bracket for Handle AS-H30 : 2pcs AS Nut AS-8M5 : 2pcs M5×10 Hexagon Socket Countersunk Head Screw : 4pcs	–
G	–	100-041-485	AS-H-42-C-1-10	Groove Width 10 mm	Handle H-42-C-1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

Refer to 1 : P.20, 2 : P.651, 3 : P.526

STAINLESS STEEL HANDLE H-42-F14

SUS316



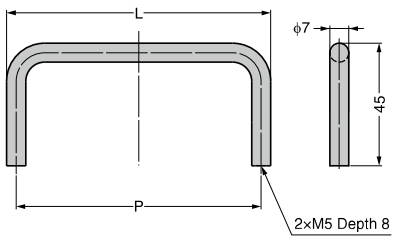


RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-019-233	H-42-F14	Stainless Steel (SUS316)	Polished	25	50	250

STAINLESS STEEL HANDLE MG

SUS





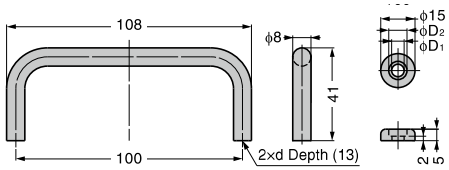
- Higher profile allows for easy gripping with glove on.
- MG-68 is compliant with SEMI standard (SEMI S8-0307).

RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-010-488	MG-68	Stainless Steel (SUS304)	Polished	75	68	42	100	300
G	3D	100-010-073	MG-90			97	90	48	100	300

HANDLE T-100-8

SUS





- Higher profile allows for easy gripping with glove on.

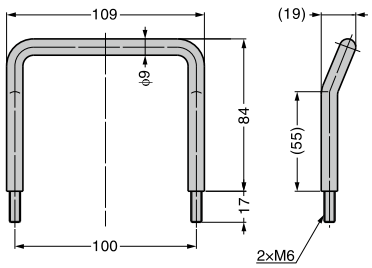
RoHS	CAD	Item Code	Item Name	Material	Finish	d	D_1	D_2	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-010-224	T-100-8S	Stainless Steel (SUS304)	Polished	M5	5.5	8.2	72	100	300
G	3D	100-019-855	☆T-100-8CR	Brass	Chrome	M4	4.5	8	78	50	–

☆Limited stock available. Please contact your local agent or your nearest Sugatsune subsidiary for detail/availability.

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)
G	3D	100-010-604	H-75-BL-100	Stainless Steel (SUS304)	Polished	130	20	80

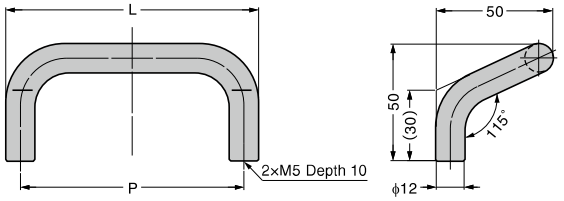
STAINLESS STEEL HANDLE LF-12



- Angled grip for a comfortable grip.
- ϕ12mm 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 M5×30



[Handle]

RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	Load capacity N	Load capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-010-520	LF-12-96	Stainless Steel (SUS304)	Satin	108	96	441	45	182	10	80
G	3D	100-010-521	LF-12-128			140	128			211	10	60
G	3D	100-010-522	LF-12-160			172	160			236	10	60

AS Parts Set for Installing to Aluminium Frame

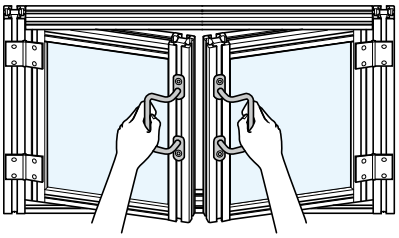
Please refer to the series introduction page 1 for details about AS series.



[Application Example]

For double door

No worry of pinching your fingers by handles.



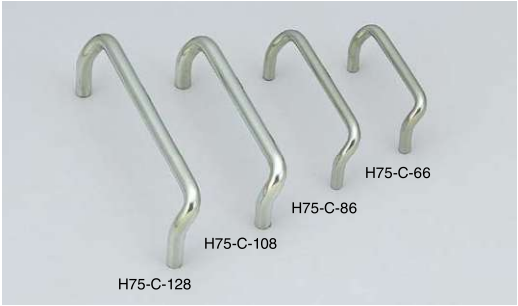
[AS Parts Set] Parts set of brackets, screws and AS nuts used for installing to aluminium frame.

RoHS	CAD	Item Code	Item Name	Aluminium Frame	Parts	Weight (g)
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 M5×10 Hexagon Socket Countersunk Head Screw : 4pcs	–
G	–	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 M5×10 Hexagon Socket Countersunk Head Screw : 2pcs M5×12 Hexagon Socket Countersunk Head Screw : 2pcs	–
G	–	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 M5×10 Hexagon Socket Countersunk Head Screw : 4pcs	–
G	–	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 M5×10 Hexagon Socket Countersunk Head Screw : 2pcs M5×12 Hexagon Socket Countersunk Head Screw : 2pcs	–
G	–	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 M5×10 Hexagon Socket Countersunk Head Screw : 4pcs	–
G	–	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 M5×10 Hexagon Socket Countersunk Head Screw : 2pcs M5×12 Hexagon Socket Countersunk Head Screw : 2pcs	–

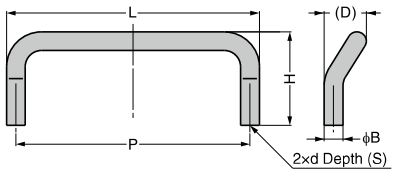
Refer to 1 : P.20, 2 : P.651, 3 : P.526

STAINLESS STEEL HANDLE H-75-C

AS SUS



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

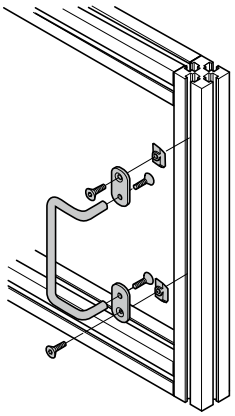
AS Parts Set for Installing to Aluminium Frame

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

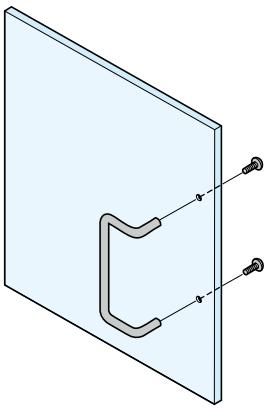


[How to Install]

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)
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	–
G	–	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	–
G	–	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	–
G	–	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 : P.20, 2 : P.651, 3 : P.526

STAINLESS STEEL HANDLE H-42-B

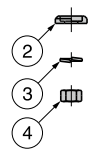
SUS

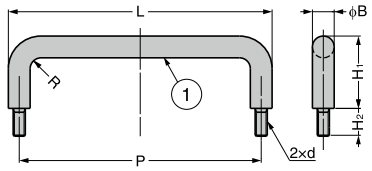


●Bracket H-42-Z 1 is included. Bracket can also be ordered separately.

[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		

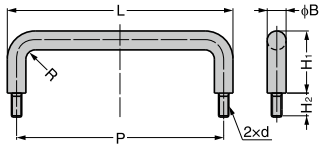
RoHS	CAD	Item Code	Item Name	L	H1	H2	B	P	R	d	Weight (g)	Bracket	Box (pcs)	Carton (pcs)
G	3D	100-019-765	H-42-B-9	46	22	8.5	6	40	3	M4	15	H-42-Z-6	50	500
G	3D	100-010-550	H-42-B-8	66		7		60			20		100	500
G	3D	100-010-552	H-42-B-14	86	30	10		80			27		50	250
G	3D	100-010-551	H-42-B-1	75		11	7	68	3.5	M5	40	H-42-Z-7	50	250
G	3D	100-010-553	H-42-B-2	109			9	100	4.5		80	H-42-Z-9	50	150
G	3D	100-010-554	H-42-B-3	120	40		10	110	5	M6	120	H-42-Z-10	50	150
G	3D	100-010-555	H-42-B-4	130				120			125		50	150
G	3D	100-010-556	H-42-B-15	162	50	20	12	150	6	M8	235	H-42-Z-12	30	60
G	3D	100-010-557	H-42-B-5	200				188			270		30	60
G	3D	100-010-558	H-42-B-6	250				238			320		20	40
G	3D	100-010-559	H-42-B-7	300				288			365		20	40

Refer to 1 : P.651

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.

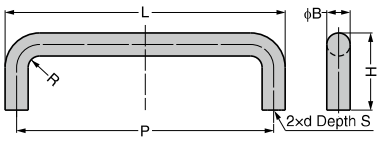
RoHS	CAD	Item Code	Item Name	Material	Finish	L	H1	H2	B	P	R	d	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-010-350	H-42-BT-2	Titanium	Polished	108	30	11	8	100	4.5	M5	40	20	80
G	3D	100-010-349	H-42-BT-4			130	40		10	120	5	M6	63	20	80
G	3D	100-010-348	H-42-BT-15			162	50	20	12	150	6	M8	112	20	80

Refer to 1 : P.650

TITANIUM HANDLE H-42-CT

TITANIUM





[Recommended Screws]
●d×(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)
G	3D	100-010-352	H-42-CT-2	Titanium	Polished	108	30	8	100	4.5	M5	8	37	20	80
G	3D	100-010-351	H-42-CT-4			130	40	10	120	5	M6		59	20	80
G	3D	100-010-549	H-42-CT-15			162	50	12	150	6	M8	10	105	20	80

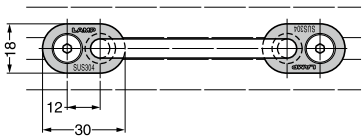
Refer to 1 : P.646

BRACKET FOR HANDLE AS-H30



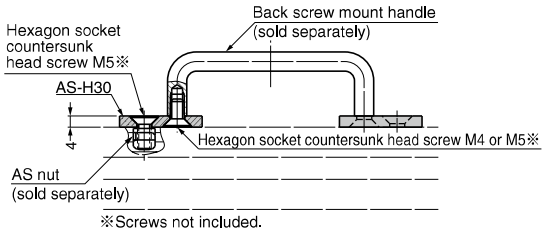
- Used for installing back screw mount handle from the front side of aluminium frame.
- Use AS nuts 1 for installation.
- Nuts not included for installing to 6mm groove width aluminium frame.

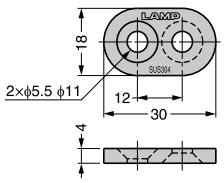
[Dimensions]



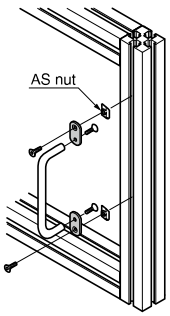
[Application Example]







[How to Install]



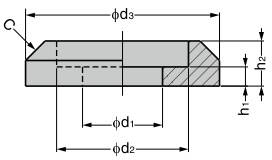
1. Fix bracket AS-H30 and back screw mount handle (sold separately) with mounting screws.
2. Lightly fix AS nut (sold separately) and bracket with mounting screws.
3. Put AS nut (sold separately) into the groove of aluminium frame, and fix it by tightening the screw.

RoHS	CAD	Item Code	Item Name	Material	Finish	Aluminium Frame	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-080-026	AS-H30	Stainless Steel (SUS304)	Barrel Polished	Groove Width 8, 10	13	100	1000

Refer to 1 : P.526

BRACKET FOR STAINLESS STEEL HANDLE H-42-Z





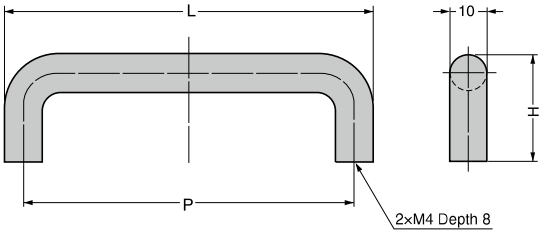
- Bracket for wire pull.
- Suitable sizes of handle diameter and screw are as below.

RoHS	CAD	Item Code	Item Name	Material	Finish	h1	h2	d1	d2	d3	C	Handle Diameter	Screw Size	Weight (g)	1 pack	Box (packs)	Carton (packs)
G	3D	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
G	3D	100-010-571	H-42-Z-7			1	3	5.2	7.2			7	M5	0.9		200	2000
G	3D	100-010-572	H-42-Z-9						9.2	13		9		1.6		200	2000
G	3D	100-010-573	H-42-Z-10			1.5	3.5	6.2	10.2	15	1.5	10	M6	2.7		200	2000
G	3D	100-010-574	H-42-Z-12				4.5	8.2	12.2	18		12	M8	4.9		200	2000

ALUMINIUM HANDLE AM



[Parts Included]
- Truss head screw M4×28



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		90	23.4	30	600
–	3D	100-017-611	AM-120S				120		110	26.8	30	–
–	3D	100-017-614	AM-310S				310	38	300	67	10	–

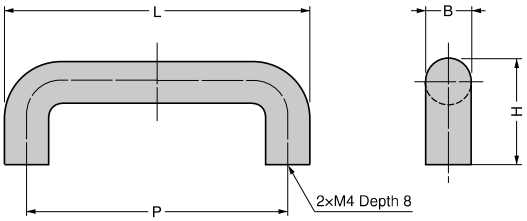
PLASTIC HANDLE PC



- Plastic handle contributes to weight reduction of doors.

[Remarks]
- Size and finish varies. Please check with actual item.

[Parts Included]
- Truss head screw M4×28



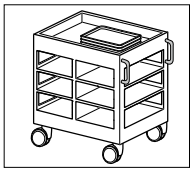
RoHS	CAD	Item Code	Item Name	Material	Colour	L	H	P	B	Weight (g)	Box (pcs)	Carton (pcs)
–	3D	100-015-502	PC-45-W	PS	White	45	28	35	10	7.5	60	–
–	3D	100-015-503	PC-80-W			80		68	12	14	60	–
–	3D	100-015-504	PC-120-W			120	29	108		18.3	60	–
–	3D	100-015-505	PC-45-B		Black	45	28	35	10	7.5	60	–
–	3D	100-015-506	PC-80-B			80		68	12	14	60	–
–	3D	100-015-507	PC-120-B			120	29	108		18.3	60	–

HANDLE SGH-200 Antistatic & Antibacterial Type

ANTIBACTERIAL

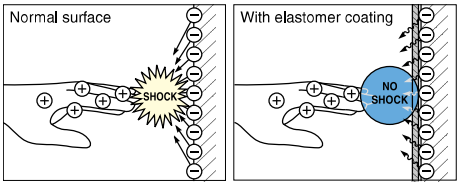


[Application Example]



- Elastomer coating provides static eliminating and antibacterial effect.
- Antibacterial material which complies with the "JIS Z 2801" is used. (Japan Industrial Standards).
- 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.

[Pathway of Releasing Electrical Discharge]



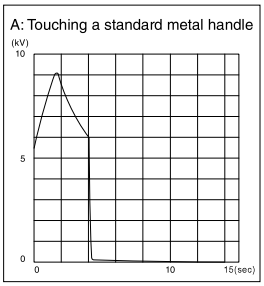
[Specifications]
- Operating temperature: -30℃~80℃

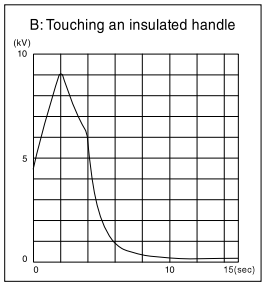
[Applications]
- Wagon, medical equipment, pharmaceutical manufacturing equipment, semiconductor manufacturing and measurement equipment, school facilities, and other facilities requiring static elimination and antibacterial, etc.

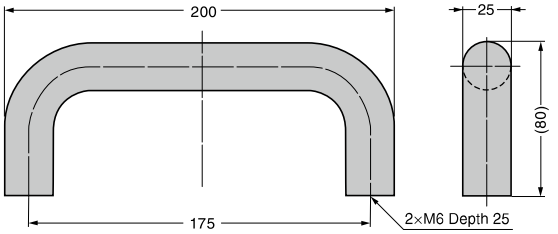
[Remarks]
- Install to a conductive surface to eliminate static. Non-conductive surface has no static eliminating effect. Discharge by grounding is required.
- This product can reduce the pain feeling, but not eliminate it. The sense of pain varies for different people.

[Parts Included]
- Pan head screw M6×20 SUS (spring washer and round washer included)

[Properties of Special Elastomer Coating]







RoHS	CAD	Item Code	Item Name	Material	Colour	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-013-022	SGH-200	Base Material: PA, Coating: Elastomer	Blue	250	1	20

STAINLESS STEEL HANDLE HGH

SUS



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

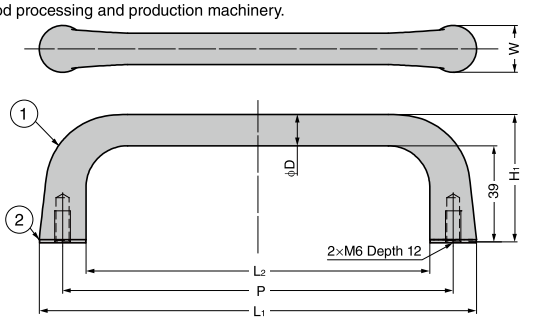
[Applications]
- Food processing and production machinery.



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.



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



Video Link

No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SCS13)	Mirror
②	Gasket	Silicone rubber (Q)	Blue

RoHS	CAD	Item Code	Item Name	L1	L2	W	H1	P	D	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-037-021	HGH-115SM	130	100	15	49	115	10	400	40.8	144	6	72
G	3D	100-037-022	HGH-150SM	168	132	18	51	150	12	500	51	244	8	48
G	3D	100-037-023	HGH-200SM	222.5	177.5	22.5	54	200	15			463	2	28

Zwei L STAINLESS STEEL HANDLE ZL-2001

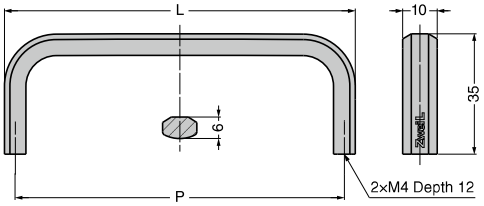
SUS316



●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 M4×30 (SUS)

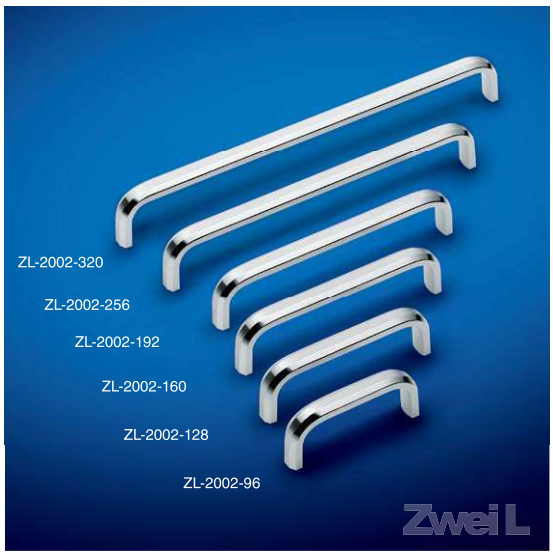


RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-011-000	ZL-2001-32	Stainless Steel (SUS316)	Zwei L Finish	38	32	34	20	–
G	3D	100-011-001	ZL-2001-64			70	64	46	12	–
G	3D	100-011-002	ZL-2001-96			102	96	59	12	–
G	3D	100-011-003	ZL-2001-128			134	128	72	10	–
–	3D	100-011-037	ZL-2001-160			166	160	86	10	–
–	3D	100-011-038	ZL-2001-192			198	192	100	6	–
–	3D	100-011-039	ZL-2001-256			262	256	125	6	–

Video Link

Zwei L STAINLESS STEEL HANDLE ZL-2002

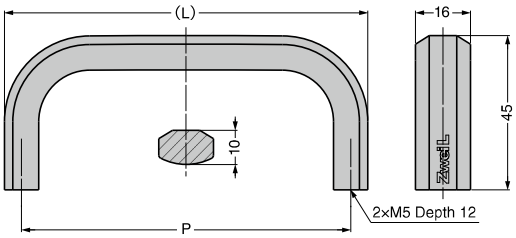
SUS316



●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 M5×30 (SUS)



RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-011-004	ZL-2002-96	Stainless Steel (SUS316)	Zwei L Finish	106	96	165	12	–
G	3D	100-011-005	ZL-2002-128			138	128	194	12	–
G	3D	100-011-006	ZL-2002-160			170	160	233	12	–
G	3D	100-011-007	ZL-2002-192			202	192	265	6	–
G	3D	100-011-008	ZL-2002-256			266	256	332	6	–
G	3D	100-011-009	ZL-2002-320			330	320	395	6	–
G	3D	100-014-431	ZL-2002-416			426	416	491	4	–
G	3D	100-014-432	ZL-2002-512			522	512	587	4	–

Video Link

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



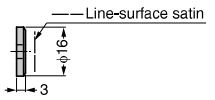
Handles are sold separately.

- 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.

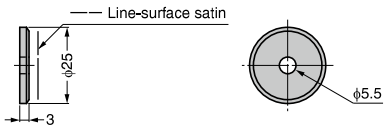
[Remarks]

- 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.

①ZL glass mounting bracket ϕ16



②ZL glass mounting bracket ϕ25



③Gasket for ZL glass mounting bracket ϕ14
④Gasket for ZL glass mounting bracket ϕ20

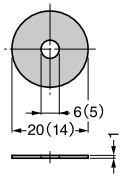
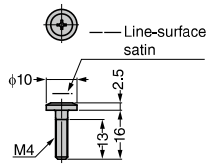


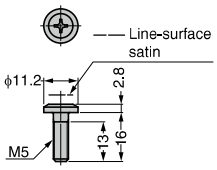
Figure above shows ④.
Dimensions in ( ) are for ③.

⑤ZL countersunk head screw M4×16



Glass processing hole
ϕ5 (glass thickness 4, 5)
ϕ6 (glass thickness 6)

⑥ZL countersunk head screw M5×16



Glass processing hole ϕ6

[Bracket Set for ZL-2001 ϕ16] w/Screw
Parts set

No.	Part Name	Material	Finish / Colour	Carton (pcs)
①	Bracket (ϕ16)	Stainless Steel (SUS316)	Zwei L Finish	2
③	Gasket (ϕ14)	Elastomer (TPE)	Clear	4
⑤	Truss Head Screw M4×16	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 ϕ25] w/Screw
Parts set

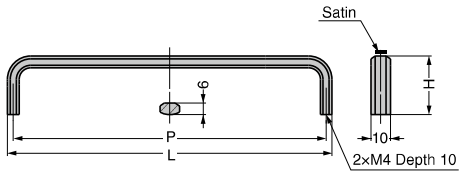
No.	Part Name	Material	Finish / Colour	Carton (pcs)
②	Bracket (ϕ25)	Stainless Steel (SUS316)	Zwei L Finish	2
③	Gasket (ϕ14)	Elastomer (TPE)	Clear	
④	Gasket (ϕ20)			
⑥	Truss Head Screw M5×16	Stainless Steel	Zwei L Finish	

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]

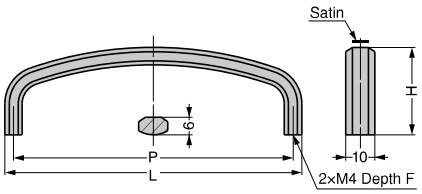
- Truss head screw M4×25 (SUS)

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

STAINLESS STEEL HANDLE XL-JSR

SUS316





- Finish: Combination of polished and satin.

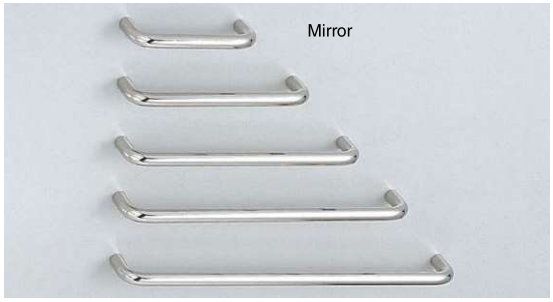
[Parts Included]

- Truss head screw M4×25 (SUS)

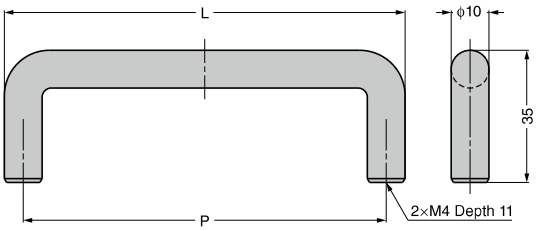
RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	H	F	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-012-795	XL-JSR40TT	Stainless Steel (SUS316)	Polished and Satin Combination	38	32	27	10	26	30	300
G	3D	100-012-796	XL-JSR70TT			70	64	30		35	20	200
G	3D	100-012-797	XL-JSR100TT			102	96		9	51	20	200
G	3D	100-012-798	XL-JSR135TT			134	128			63	15	150

STAINLESS STEEL HANDLE H-35

SUS



[Parts Included]
● Truss head screw M4×45



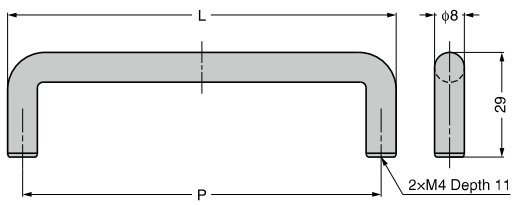
RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-036-723	H-35-96-SS	Stainless Steel (SUS304)	Satin	106	96	86	25	–
G	3D	100-036-724	H-35-96-SM		Mirror	106	96	86	25	–
G	3D	100-036-725	H-35-128-SS		Satin	138	128	106	25	–
G	3D	100-036-726	H-35-128-SM		Mirror	138	128	106	25	–
G	3D	100-036-727	H-35-160-SS		Satin	170	160	125	25	–
G	3D	100-036-728	H-35-160-SM		Mirror	170	160	125	25	–
G	3D	100-036-729	H-35-192-SS		Satin	202	192	145	25	–
G	3D	100-036-730	H-35-192-SM		Mirror	202	192	145	25	–
G	3D	100-036-731	H-35-288-SS		Satin	298	288	204	25	–
G	3D	100-036-732	H-35-288-SM		Mirror	298	288	204	25	–

STAINLESS STEEL HANDLE H-29

SUS



[Parts Included]
● Truss head screw M4×45



RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-036-733	H-29-64-SS	Stainless Steel (SUS304)	Satin	72	64	39	25	–
G	3D	100-036-734	H-29-64-SM		Mirror	72	64	39	25	–
G	3D	100-036-735	H-29-96-SS		Satin	104	96	52	25	–
G	3D	100-036-736	H-29-96-SM		Mirror	104	96	52	25	–
G	3D	100-036-737	H-29-128-SS		Satin	136	128	64	25	–
G	3D	100-036-738	H-29-128-SM		Mirror	136	128	64	25	–
G	3D	100-036-739	H-29-160-SS		Satin	168	160	77	25	–
G	3D	100-036-740	H-29-160-SM		Mirror	168	160	77	25	–
G	3D	100-036-741	H-29-192-SS		Satin	200	192	90	25	–
G	3D	100-036-742	H-29-192-SM		Mirror	200	192	90	25	–

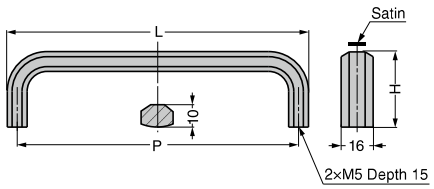
STAINLESS STEEL HANDLE XL-CU

NSF SUS



●Finish: Combination of polished and satin.

[Parts Included]
●Truss head screw M5×30 (SUS)



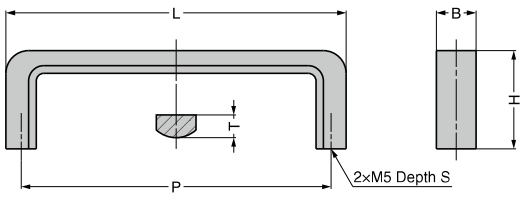
RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-010-470	XL-CU80TT	Stainless Steel (SUS303)	Polished and Satin Combination	82	32	72	112	10	100
G	3D	100-010-471	XL-CU100TT			102	34	92	136	10	100
G	3D	100-010-472	XL-CU120TT			122	36	112	163	10	100
G	3D	100-010-473	XL-CU150TT			152	38	142	200	8	80
G	3D	100-010-474	XL-CU180TT			182	40	172	234	8	80
G	3D	100-010-475	XL-CU220TT			222	42	212	282	8	40
G	3D	100-010-476	XL-CU300TT			302	44	292	372	6	30

STAINLESS STEEL HANDLE FB

SUS



[Parts Included]
●Pan head screw M5×25



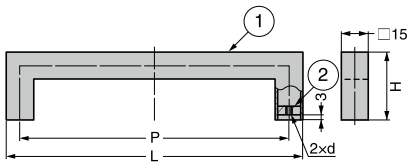
RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	B	T	P	S	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-010-074	FB-90	Stainless Steel (SCS13)	Polished	90	26	10.5	6	82	10	45	35	280
G	3D	100-010-075	FB-110			110	28	12.5	7	102	12	60	25	200
G	3D	100-010-076	FB-130			130	32	14.5	8	120	14	93	20	160

※SCS13 is equivalent to SUS304.

STAINLESS STEEL HANDLE KPH

SUS





- Light handle with hollow body.

[Recommended Screws]
- d×(Door thickness +10~15)

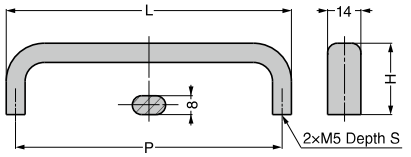
No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Nut		Plain

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

STAINLESS STEEL HANDLE EC

NSF SUS





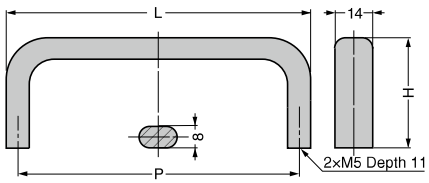
[Parts Included]
- Truss head screw M5×28

RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P	S	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-017-232	EC-80S	Stainless Steel (SUS304)	Satin	80	30	72	10	84	20	200
G	3D	100-017-226	EC-80M		Polished						20	200
G	3D	100-017-233	EC-100S		Satin	100	32	92		102	15	150
G	3D	100-017-227	EC-100M		Polished						15	150
G	3D	100-017-234	EC-120S		Satin	120	34	112	12	120	15	150
G	3D	100-017-228	EC-120M		Polished						15	150
G	3D	100-017-235	EC-150S		Satin	150	36	142		148	10	100
G	3D	100-017-229	EC-150M		Polished						10	100
G	3D	100-017-236	EC-180S		Satin	180	37	172		174	10	100
G	3D	100-010-049	EC-180M		Polished						10	100
G	3D	100-017-237	EC-220S		Satin	220	38	212		205	8	80
G	3D	100-010-050	EC-220M		Polished						8	80

STAINLESS STEEL HANDLE ECH

SUS





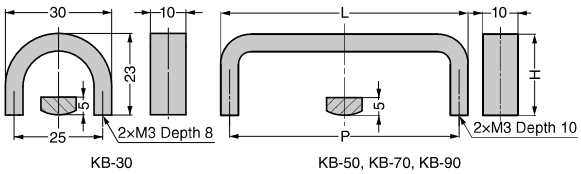
[Parts Included]
- Truss head screw M5×28

RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-017-249	ECH-75S	Stainless Steel (SUS303)	Satin	83	40	75	115	10	100
G	3D	100-017-241	ECH-75M		Polished					10	100
G	3D	100-017-252	ECH-100S		Satin	108		100	135	15	150
G	3D	100-017-242	ECH-100M		Polished					15	150
G	3D	100-017-251	ECH-125S		Satin	133		125	153	10	100
G	3D	100-017-243	ECH-125M		Polished					10	100
G	3D	100-017-244	ECH-150M			158	50	150	190	7	70
G	3D	100-017-245	ECH-200M			208		200	244	10	100
G	3D	100-017-246	ECH-250M			258		250	280	5	50
G	3D	100-017-247	ECH-300M			308		300	306	5	50

STAINLESS STEEL HANDLE KB



[Parts Included]
- Truss head screw M3×28 (SUS)

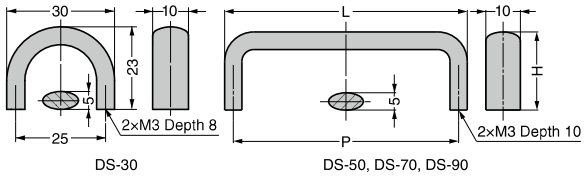


RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-011-094	KB-30S	Stainless Steel (SUS303)	Satin	As Above	As Above	As Above	18	40	400
G	3D	100-011-093	KB-30M		Polished					40	400
G	3D	100-011-096	KB-50S		Satin	50	22	45	26	30	300
G	3D	100-011-095	KB-50M		Polished					30	300
G	3D	100-011-098	KB-70S		Satin	70	22.5	65	33	30	300
G	3D	100-011-097	KB-70M		Polished					30	300
G	3D	100-011-100	KB-90S		Satin	90	23	85	40	20	200
G	3D	100-011-099	KB-90M		Polished					20	200

STAINLESS STEEL HANDLE DS



[Parts Included]
- Truss head screw M3×28 (SUS)

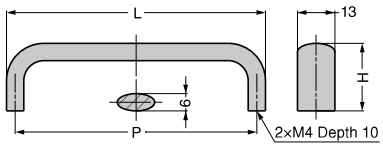


RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-011-112	DS-30S	Stainless Steel (SUS303)	Satin	As Above	As Above	As Above	15	40	400
G	3D	100-011-111	DS-30M		Polished					40	400
G	3D	100-011-114	DS-50S		Satin	50	22	45	22	30	300
G	3D	100-011-113	DS-50M		Polished					30	300
G	3D	100-011-116	DS-70S		Satin	70	22.5	65	28	30	300
G	3D	100-011-115	DS-70M		Polished					30	300
G	3D	100-011-118	DS-90S		Satin	90	23	85	35	20	200
G	3D	100-011-117	DS-90M		Polished					20	200

STAINLESS STEEL HANDLE DL



[Parts Included]
- Truss head screw M4×28 (SUS)



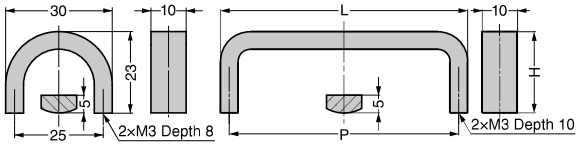
RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-011-102	DL-70S	Stainless Steel (SUS303)	Satin	70	23	64	44	20	200
G	3D	100-011-101	DL-70M		Polished					20	200
G	3D	100-011-104	DL-90S		Satin	90	23.5	84	55	20	200
G	3D	100-011-103	DL-90M		Polished					20	200
G	3D	100-011-106	DL-110S		Satin	110	24	104	65	15	150
G	3D	100-011-105	DL-110M		Polished					15	150
G	3D	100-011-108	DL-130S		Satin	130	24.5	124	75	15	150
G	3D	100-011-107	DL-130M		Polished					15	150
G	3D	100-011-110	DL-150S		Satin	150	25	144	86	15	150
G	3D	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

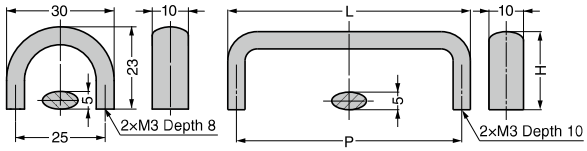
RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-904-581	KB-30S-SUS304	Stainless Steel (SUS304)	Satin	As Above	As Above	As Above	18	40	400
G	3D	100-904-580	KB-30M-SUS304		Polished					40	400
G	3D	100-904-583	KB-50S-SUS304		Satin	50	22	45	26	30	300
G	3D	100-904-582	KB-50M-SUS304		Polished					30	300
G	3D	100-904-585	KB-70S-SUS304		Satin	70	22.5	65	33	30	300
G	3D	100-904-584	KB-70M-SUS304		Polished					30	300
G	3D	100-904-587	KB-90S-SUS304		Satin	90	23	85	40	20	200
G	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

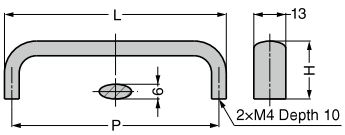
RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-904-573	DS-30S-SUS304	Stainless Steel (SUS304)	Satin	As Above	As Above	As Above	15	40	400
G	3D	100-904-572	DS-30M-SUS304		Polished					40	400
G	3D	100-904-575	DS-50S-SUS304		Satin	50	22	45	22	30	300
G	3D	100-904-574	DS-50M-SUS304		Polished					30	300
G	3D	100-904-577	DS-70S-SUS304		Satin	70	22.5	65	28	30	300
G	3D	100-904-576	DS-70M-SUS304		Polished					30	300
G	3D	100-904-579	DS-90S-SUS304		Satin	90	23	85	35	20	200
G	3D	100-904-578	DS-90M-SUS304		Polished					20	200

STAINLESS STEEL HANDLE DL-SUS304

SUS



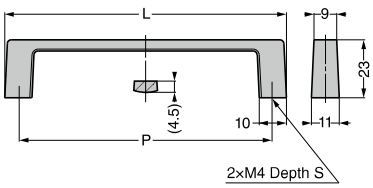
[Parts Included]
- Truss head screw M4×28 (SUS)



RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-904-563	DL-70S-SUS304	Stainless Steel (SUS304)	Satin	70	23	64	44	20	200
G	3D	100-904-562	DL-70M-SUS304		Polished					20	200
G	3D	100-904-565	DL-90S-SUS304		Satin	90	23.5	84	55	20	200
G	3D	100-904-564	DL-90M-SUS304		Polished					20	200
G	3D	100-904-567	DL-110S-SUS304		Satin	110	24	104	65	15	150
G	3D	100-904-566	DL-110M-SUS304		Polished					15	150
G	3D	100-904-569	DL-130S-SUS304		Satin	130	24.5	124	75	15	150
G	3D	100-904-568	DL-130M-SUS304		Polished					15	150
G	3D	100-904-571	DL-150S-SUS304		Satin	150	25	144	86	15	150
G	3D	100-904-570	DL-150M-SUS304		Polished					15	150

HANDLE 936





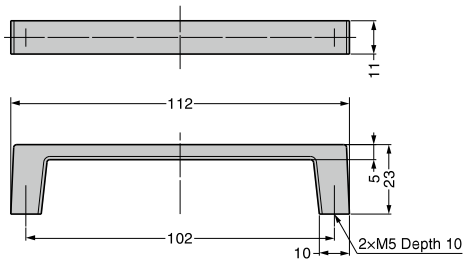
[Remarks]
- Screws are not included in nickel finish.

[Parts Included]
- 936-55-SCR Truss head screw M4×25
- 936-100-DC Truss head screw M4×28

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

HANDLE 937-102SCR

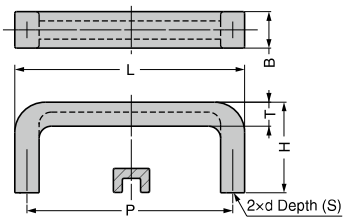




RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-019-520	937-102SCR	Zinc Alloy (ZDC)	Satin Chrome	50	–	1

HANDLE AKH





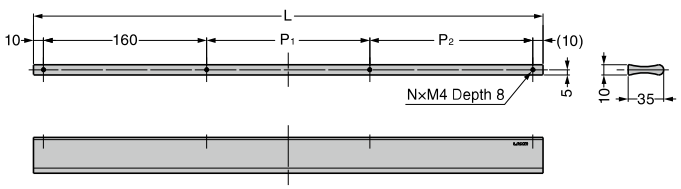
- Simple design allows for harmonising with various kinds of equipment.

RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	B	T	P	d	S	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-019-803	AKH-76	Zinc Alloy (ZDC)	Satin Chrome	76	30	12	8	68	M5	8	55	30	300
G	3D	100-019-799	AKH-108			108		14		100			80	10	240
G	3D	100-019-802	AKH-120			120	40	16	10	110	M6		130	1	–
G	3D	100-019-801	AKH-130			130				120			145	–	1
G	3D	100-010-575	AKH-200			200	50	18	12	188	M8	10	250	10	–

PULL AOT35



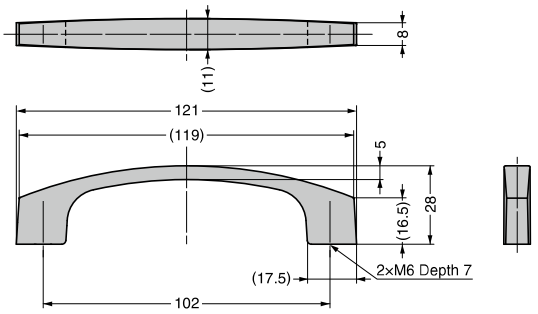
- Smooth and beautiful appearance.



RoHS	CAD	Item Code	Item Name	Material	Finish	L	P1	P2	N	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-012-523	AOT35-180	Aluminium Alloy	Anodised	180	–	–	2	129	100	–
G	3D	100-012-524	AOT35-340			340	160		3	243	50	–
G	3D	100-012-525	AOT35-500			500		160	4	358	30	–

HANDLE SAZ-121CR

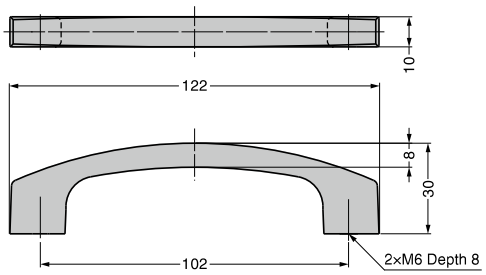




RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-010-105	SAZ-121CR	Zinc Alloy (ZDC)	Chrome	63	50	200

HANDLE SAZ-122





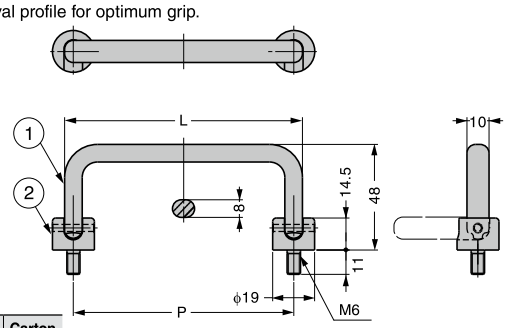
RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-019-790	SAZ-122	Zinc Alloy (ZDC)	Chrome	85	1	–

FOLDING HANDLE HK

NSF TEST METHOD 1 SUS



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



[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)
G	3D	100-010-011	HK-80	88	80	490	50	125	10	100
G	3D	100-010-012	HK-100	108	100			136	10	100
G	3D	100-010-013	HK-120	128	120			146	10	100

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

STAINLESS STEEL FOLDING HANDLE HKM Front Screw Mount

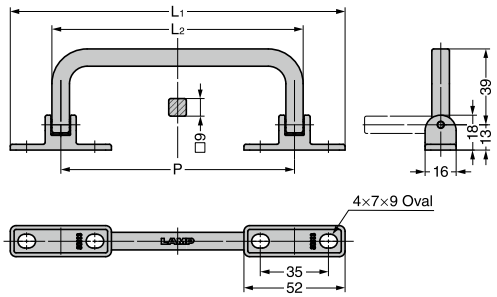
TEST METHOD 20 SUS



- 90-degree folding handle.
- Handle clicks (temporary holding function) into open and closed position.
- Can be installed on an aluminium frame.

[Applications]
- Storage handle for various kinds of equipment, etc.

[Recommended Screws]
- M6 screws



RoHS	CAD	Item Code	Item Name	Material	Finish	L_1	L_2	P	Load Capacity N	Load Capacity kgf	Weight (g)
G	3D	100-047-045	HKM-120	Stainless Steel (SCS13)	Mirror	172	129	120	490	50	177
G	3D	100-047-046	HKM-150			202	159	150			194
G	3D	100-047-047	HKM-180			232	189	180			214

※SCS13 is equivalent to SUS304.

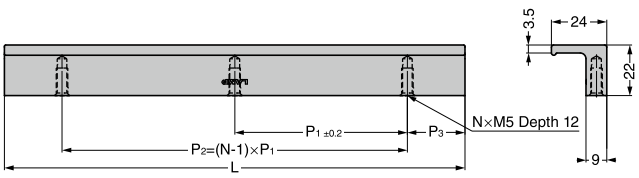
EXTRUDED ALUMINIUM HANDLE HA-NE

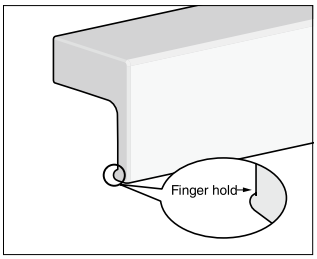
TEST METHOD 20



- Has anti-slip bump along the edges.
- ALH 1 is also available for total design coordination with this product.

[Parts Included]
- Countersunk truss head screw M5×28 (stainless steel)





RoHS	CAD	Item Code	Item Name	Material	Finish	Colour	L	P_1	P_2	P_3	N	Load Capacity N	Load Capacity kgf	Weight (g)
G	3D	100-049-649	HA-NE-100SL	Aluminium Alloy	Anodised	Silver	100	60	60	20	2	200	20	67
G	3D	100-049-650	HA-NE-100BL			Black								
G	3D	100-049-651	HA-NE-100ST			Satin and Stainless Steel								
G	3D	100-049-652	HA-NE-200SL			Silver	200	75	150	25	3	300	31	134
G	3D	100-049-653	HA-NE-200BL			Black								
G	3D	100-049-654	HA-NE-200ST			Satin and Stainless Steel								

Refer to 1: P.628

EXTRUDED ALUMINIUM HANDLE HA-SQS

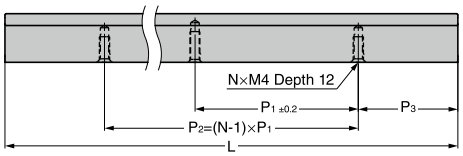
TEST METHOD 20

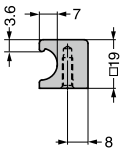


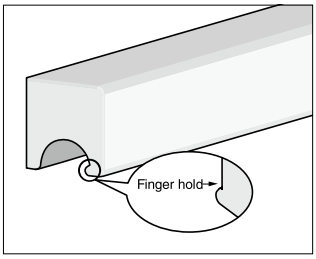
- Has anti-slip bump along the edges.
- HA-SQB 1 is also available for total design coordination with this product.

[Parts Included]

- Countersunk truss head screw M4×28 (stainless steel)







RoHS	CAD	Item Code	Item Name	Material	Finish	Colour	L	P_1	P_2	P_3	N	Load Capacity N	Load Capacity kgf	Weight (g)
G	3D	100-049-483	HA-SQS-180SL	Aluminium Alloy	Anodised	Silver	180	64	128	26	3	300	31	134
G	3D	100-049-484	HA-SQS-180BL			Black								
G	3D	100-049-485	HA-SQS-180ST			Satin and Stainless Steel								
G	3D	100-049-486	HA-SQS-270SL			Silver	270		192	39	4			202
G	3D	100-049-487	HA-SQS-270BL			Black								
G	3D	100-049-488	HA-SQS-270ST			Satin and Stainless Steel								

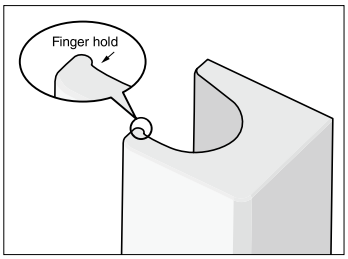
Refer to 1 : P.664

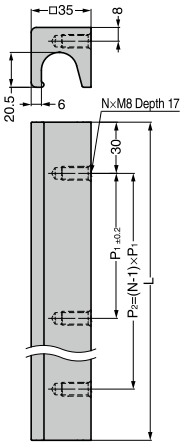
EXTRUDED ALUMINIUM HANDLE HA-SQB

TEST METHOD 20



- Has anti-slip bump along the edges.
- HA-SQS 1 is also available for total design coordination with this product.



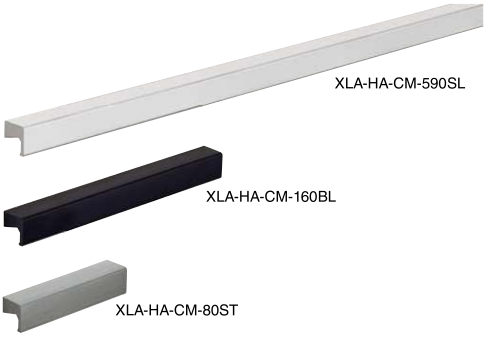


RoHS	CAD	Item Code	Item Name	Material	Finish	Colour	L	P_1	P_2	N	Load Capacity N	Load Capacity kgf	Weight (g)
G	3D	100-049-744	HA-SQB-400SL	Aluminium Alloy	Anodised	Silver	400	85	340	5	400	41	877
G	3D	100-049-745	HA-SQB-400BL			Black							
G	3D	100-049-746	HA-SQB-600SL			Silver	600	135	540				1320
G	3D	100-049-747	HA-SQB-600BL			Black							
G	3D	100-049-748	HA-SQB-800SL			Silver	800	185	740				1770
G	3D	100-049-749	HA-SQB-800BL			Black							

Refer to 1 : P.664

EXTRUDED ALUMINIUM HANDLE XLA-HA-CM

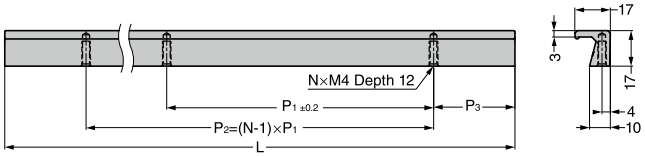
TEST METHOD 20

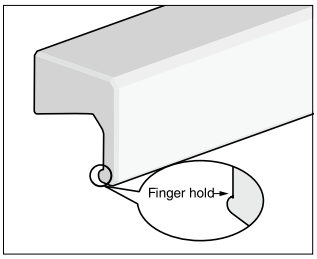


- A handle with a sharp chamfered shape.
- Has anti-slip bump along the edges.

[Parts Included]

- Countersunk truss head screw M4×28 (stainless steel)

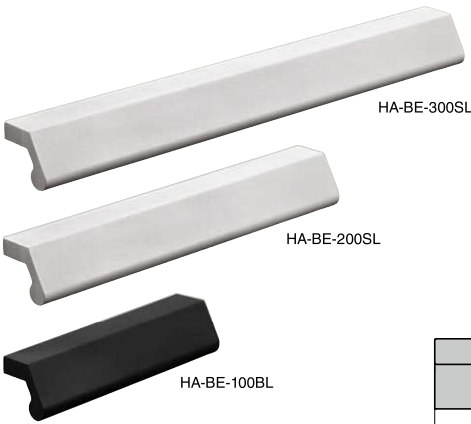




RoHS	CAD	Item Code	Item Name	Material	Finish	Colour	L	P_1	P_2	P_3	N	Load Capacity N	Load Capacity kgf	Weight (g)
G	3D	100-049-691	XLA-HA-CM-80SL	Aluminium Alloy	Anodised	Silver	80	64	64	8	2	200	20	35
G	3D	100-049-692	XLA-HA-CM-80BL			Black								
G	3D	100-049-693	XLA-HA-CM-80ST			Satin and Stainless Steel								
G	3D	100-049-694	XLA-HA-CM-160SL			Silver	160	96	96	32				70
G	3D	100-049-695	XLA-HA-CM-160BL			Black								
G	3D	100-049-696	XLA-HA-CM-160ST			Satin and Stainless Steel								
G	3D	100-049-697	XLA-HA-CM-590SL			Silver	590	128	512	37	5			260
G	3D	100-049-698	XLA-HA-CM-590BL			Black								
G	3D	100-049-699	XLA-HA-CM-590ST			Satin and Stainless Steel								

EXTRUDED ALUMINIUM HANDLE HA-BE

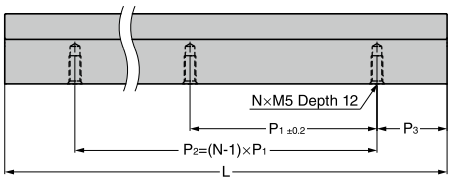
TEST METHOD 20



- A tilted handle for easy grasping.
- The grip shape applies minimal load to fingers.

[Parts Included]

- Countersunk truss head screw M5×28 (stainless steel)



RoHS	CAD	Item Code	Item Name	Material	Finish	Colour	L	P_1	P_2	P_3	N	Load Capacity N	Load Capacity kgf	Weight (g)
G	3D	100-049-732	HA-BE-100SL	Aluminium Alloy	Anodised	Silver	100	60	60	20	2	200	20	89
G	3D	100-049-733	HA-BE-100BL			Black								
G	3D	100-049-734	HA-BE-200SL			Silver	200	75	150	25	3	300	31	179
G	3D	100-049-735	HA-BE-200BL			Black								
G	3D	100-049-736	HA-BE-300SL			Silver	300	80	240	30	4			268
G	3D	100-049-737	HA-BE-300BL			Black								

EXTRUDED ALUMINIUM HANDLE HA-FR

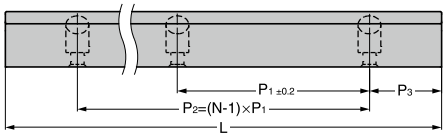
TEST METHOD 20

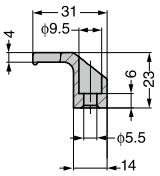


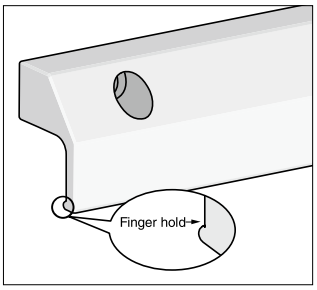
- A front-screw handle where screws remain inconspicuous.
- Has anti-slip bump along the edges.

[Recommended Screws]

- Hex socket bolts M5 or cross-recessed pan head screws M5







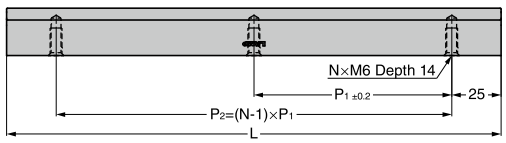
RoHS	CAD	Item Code	Item Name	Material	Finish	Colour	L	P_1	P_2	P_3	N	Load Capacity N	Load Capacity kgf	Weight (g)
G	3D	100-049-738	HA-FR-100SL	Aluminium Alloy	Anodised	Silver	100	60	60	20	2	300	31	80
G	3D	100-049-739	HA-FR-100BL			Black								
G	3D	100-049-740	HA-FR-200SL			Silver	200	75	150	25	3			163
G	3D	100-049-741	HA-FR-200BL			Black								
G	3D	100-049-742	HA-FR-300SL			Silver	300	80	240	30	4			246
G	3D	100-049-743	HA-FR-300BL			Black								

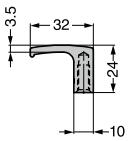
EXTRUDED ALUMINIUM HANDLE HA-RU

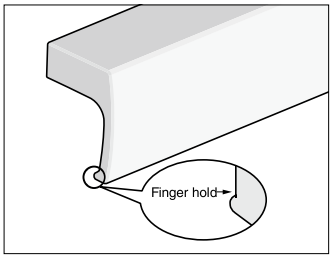
TEST METHOD 20



- A handle shaped of soft and gentle curves.
- Has anti-slip bump along the edges.





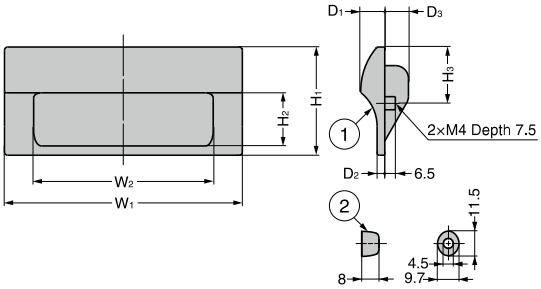


RoHS	CAD	Item Code	Item Name	Material	Finish	Colour	L	P_1	P_2	N	Load Capacity N	Load Capacity kgf	Weight (g)
G	3D	100-049-496	HA-RU-150SL	Aluminium Alloy	Anodised	Silver	150	100	100	2	300	31	126
G	3D	100-049-497	HA-RU-150BL			Black							
G	3D	100-049-498	HA-RU-250SL			Silver	250		200	3			210
G	3D	100-049-499	HA-RU-250BL			Black							

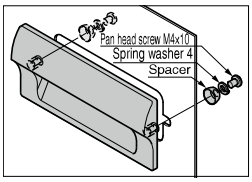
RECESSED PULL HH-JS Screw Mount



[Parts Included]
- Pan head screw M4×10
- Spring washer 4

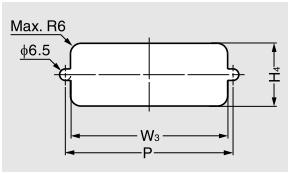


[How to Install]



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

[Cut Out Dimensions]



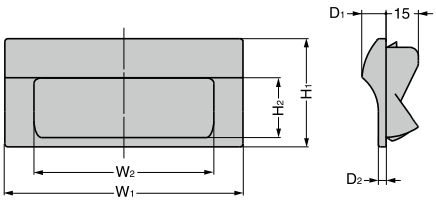
No.	Part Name	Material	Finish / Colour
①	Body	ABS + PC	Black, Ivory
②	Spacer	Steel	Clear Zinc Chromate (Trivalent)

RoHS	CAD	Item Code	Item Name	Colour	W1	W2	H1	H2	H3	D1	D2	D3	P	W3	H4	Door Thickness	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	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
G	3D	100-024-574	HH-JS70-IV	Ivory													20	10	200
G	3D	100-024-575	HH-JS90-BL	Black	90	63	44	21.5	22	11		11	78	68	31		25	10	200
G	3D	100-024-576	HH-JS90-IV	Ivory													25	10	200
G	3D	100-024-577	HH-JS110-BL	Black	110	82	50	24.4	26		3.5		96	90	36		38	10	200
G	3D	100-024-578	HH-JS110-IV	Ivory													34	10	200
G	3D	100-024-579	HH-JS140-BL	Black	140	109	64	34	33	11.5			126	116	48		56	10	200
G	3D	100-024-580	HH-JS140-IV	Ivory													56	10	200

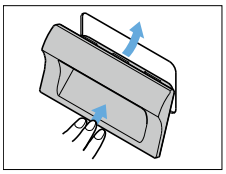
RECESSED PULL HH-JW Quick Installation



- Easy installation by snap-in.

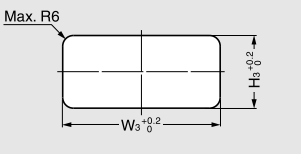


[How to Install]



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	W1	W2	H1	H2	D1	D2	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-024-581	HH-JW70-BL	ABS + PC	Black	70	43	38	18.5	10.5	3	14	10	200
G	3D	100-024-582	HH-JW70-IV		Ivory							14	10	200
G	3D	100-024-583	HH-JW90-BL		Black	90	63	44	22.9	11		21	10	200
G	3D	100-024-584	HH-JW90-IV		Ivory							21	10	200
G	3D	100-024-585	HH-JW110-BL		Black	110	83	50	26.8	11.5	3.5	35	10	200
G	3D	100-024-586	HH-JW110-IV		Ivory							35	10	200
G	3D	100-024-587	HH-JW140-BL		Black	140	109	64	37.8			53	10	200
G	3D	100-024-588	HH-JW140-IV		Ivory							54	10	200

RECESSED PULL HH-P SEMI Compliance



- 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.

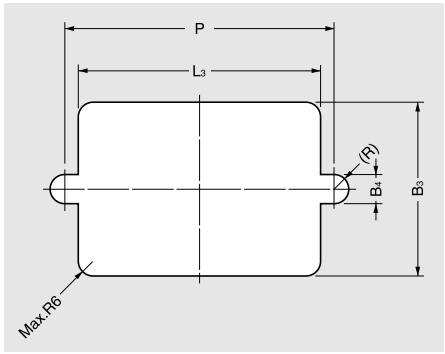
[Remarks]

- 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.

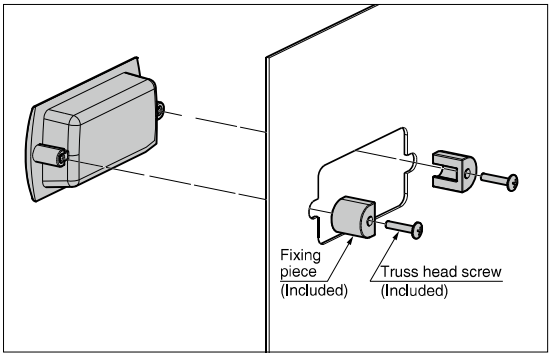
[Parts Included]

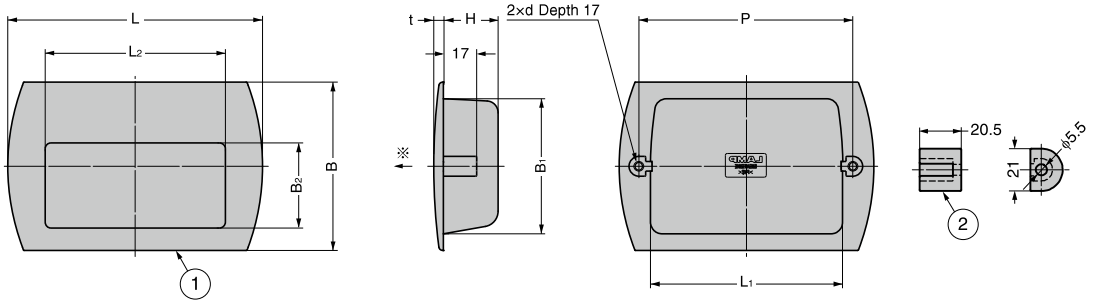
- Fixing piece
- Truss head screw M4×20 (HH-P118)
- Truss head screw M5×20 (HH-P130)

[Cut Out Dimensions]



[Installation]



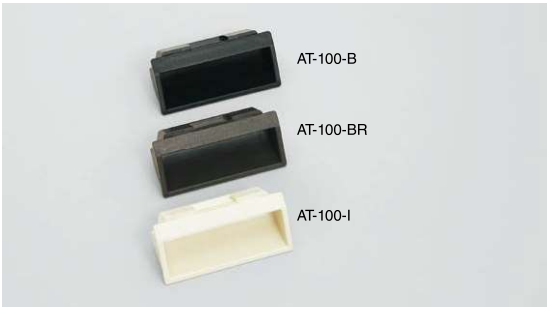


No.	Part Name	Material	Colour
①	Body	PVC	Clear
②	Fixing Piece		

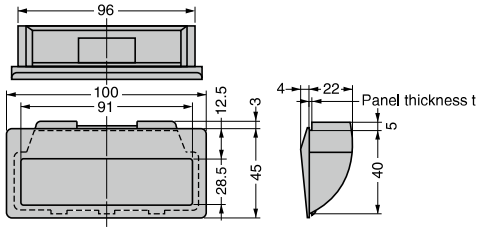
RoHS	CAD	Item Code	Item Name	L	L1	L2	B	B1	B2	H	P	d	t	L3	B3	B4	Board Thickness	Load Capacity N※	Load Capacity kgf※	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-021-824	HH-P118	118	93	90	58	47	25.5	21.5	104	M4	4	95	48	11	1~11	312	31.8	43	45	–
G	3D	100-013-957	HH-P130	130	98	92	86	69	43.5	28	110	M5	5	99	71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

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

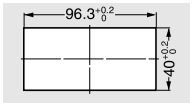
RECESSED PULL AT-100 Quick Installation



●Easy installation by snap-in.



[Cut Out Dimensions]

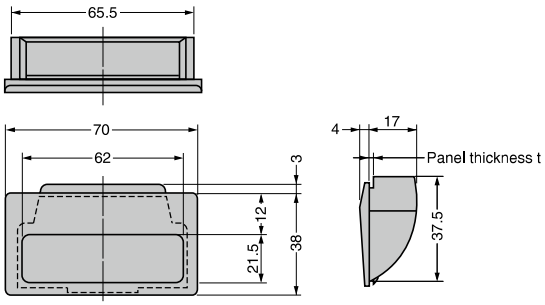


RoHS	CAD	Item Code	Item Name	Material	Colour	Panel Thickness t	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-017-625	AT-100-I	ABS	Ivory	0.8	23	250	–
G	3D	100-017-626	AT-100-BR		Brown			250	–
G	3D	100-019-414	AT-100-B		Black			250	–
G	3D	100-013-211	AT-100-10I		Ivory	1.0	22.6	250	–
G	3D	100-013-212	AT-100-10BR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

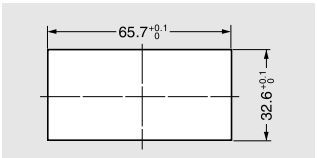
RECESSED PULL AT-70 Quick Installation



●Easy installation by snap-in.

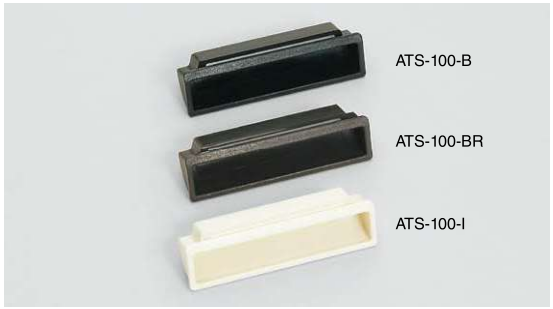


[Cut Out Dimensions]

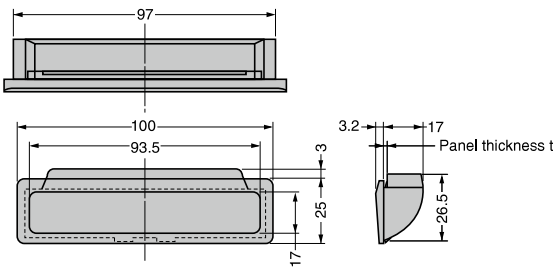


RoHS	CAD	Item Code	Item Name	Material	Colour	Panel Thickness t	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-015-001	AT-70-I	ABS	Ivory	0.8	12	550	–
G	3D	100-017-627	AT-70-BR		Brown			550	–
G	3D	100-015-000	AT-70-B		Black			550	–
G	3D	100-013-220	AT-70-12I		Ivory	1.2	12.8	1100	–
G	3D	100-013-221	AT-70-12BR		Brown			1100	–
G	3D	100-013-222	AT-70-12B		Black			1100	–
G	3D	100-013-223	AT-70-16I		Ivory	1.6		1100	–
G	3D	100-013-224	AT-70-16BR		Brown			1100	–
G	3D	100-013-225	AT-70-16B		Black			1100	–

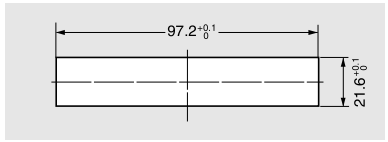
RECESSED PULL ATS-100 Quick Installation



- 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)
G	3D	100-019-180	ATS-100-I	ABS	Ivory	0.8	12.5	550	–
G	3D	100-015-002	ATS-100-BR		Brown			50	–
G	3D	100-019-476	ATS-100-B		Black			550	–
G	3D	100-013-226	ATS-100-16I		Ivory	1.6	12	1100	–
G	3D	100-013-227	ATS-100-16BR		Brown			1100	–
G	3D	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.

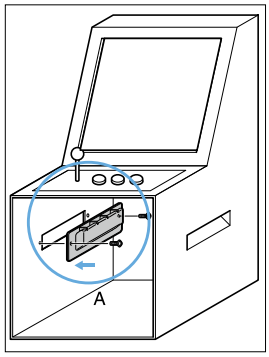
[Applications]

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

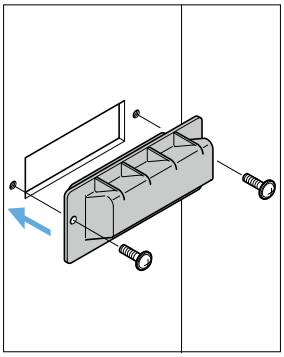
[Parts Included]

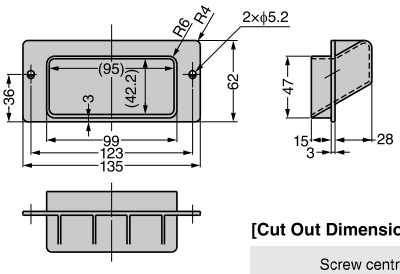
- Binding head tapping screw 4×12

[Application Example]

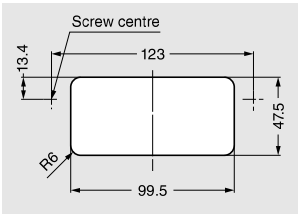


[Enlarged View of A]





[Cut Out Dimensions]



RoHS	CAD	Item Code	Item Name	Material	Colour	Panel Thickness	Weight (g)	Box (pcs)	Carton (pcs)
–	3D	100-010-343	HH-PS99	PP	Black	15	41	200	–

RECESSED PULL WITH VENTILATOR UTA-105

SUS



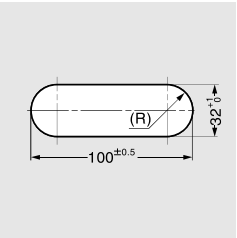


- With finger hooking part.
- With ventilator function.
- Ventilating area is invisible from the front.
- Excellent chemical resistance.

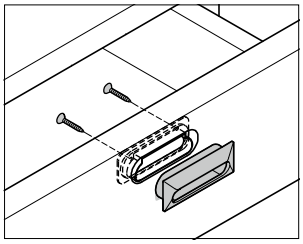
[Parts Included]

- Countersunk head tapping screw 4×20 (SUS)

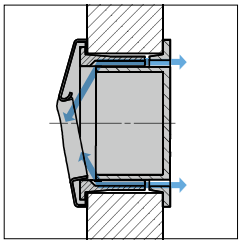
[Cut Out Dimensions]

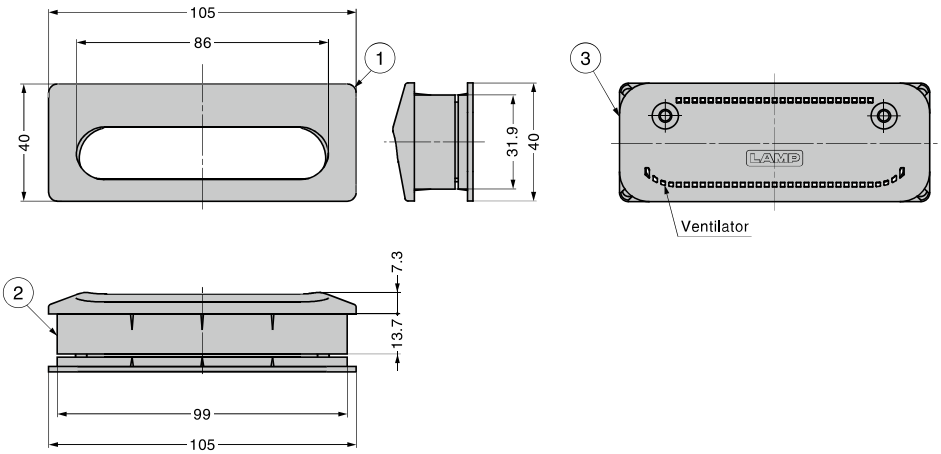


[Installation]



[Air Flow]



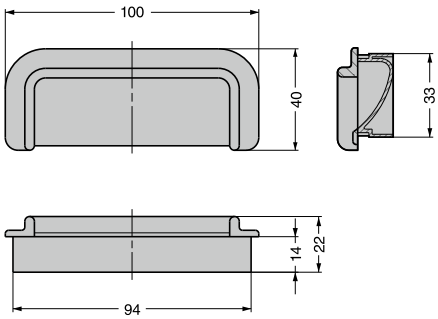


No.	Material	Finish
①	Stainless Steel (SUS304)	Satin
②	ABS	–
③		

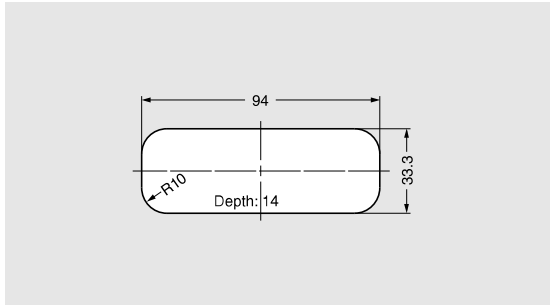
RoHS	CAD	Item Code	Item Name	Colour	Max. Exhaust Area mm²	Door Thickness	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-026-733	UTA-105BL	Black	136	18~25	40	15	150
G	3D	100-026-734	UTA-105GR	Light Grey				15	150
G	3D	100-026-735	UTA-105IV	Ivory				15	150

RECESSED PULL UP-600





[Cut Out Dimensions]



RoHS	CAD	Item Code	Item Name	Material	Finish / Colour	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-010-236	UP-600	ABS	Chrome, Black	25	50	300

RECESSED PULL XLA-HHA



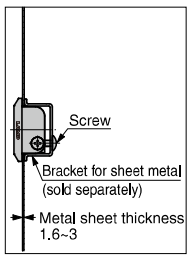
- Two types of total lengths available: 300mm and 600mm.
- Can be cut into appropriate length.
- Beautiful design based on lines and faces.
- Size can also be made to order. For further details, please contact local representatives.

[Remarks]
- Use 4 brackets (sold separately) for one pull.

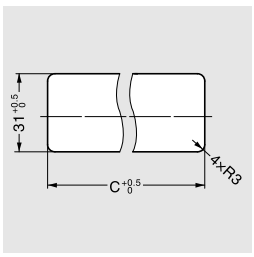
[Parts Included]
- Truss head screw M4×10 (SUS)

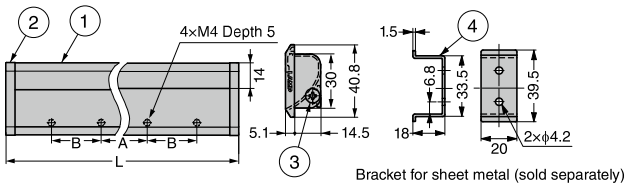
[Sold Separately]
- Bracket for sheet metal XLA-HHA40B

[Installation]



[Cut Out Dimensions]





Bracket for sheet metal (sold separately)

No.	Part Name	Material	Finish
①	Body	Aluminium Alloy	Silver Anodised
②	Cover	Zinc Alloy (ZDC)	Chrome
③	Countersunk Head Screw M4×10	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)
G	3D	100-010-190	XLA-HHA300	300	100	50	297	140	100	–
G	3D	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)
G	3D	100-010-189	XLA-HHA40B	330	500	–

LARGE RECESSED PULL HH-M

SUS


HH-M400

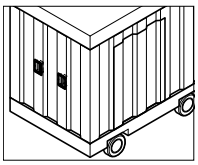
- Large type allows for easy handling with glove on.
- Handlebar does not protrude from the face of the handle.
- All stainless steel pull with handlebar length 200mm and 400mm.

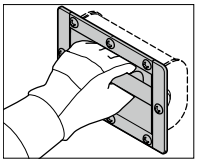
[Applications]
- Special vehicles, containers, large doors and ships, etc.

[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.

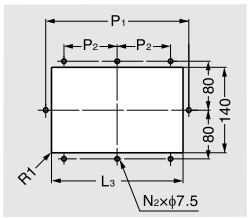
[Parts Included]
- Truss head screw M6×16 (SUS)
- Nut M6 (SUS)

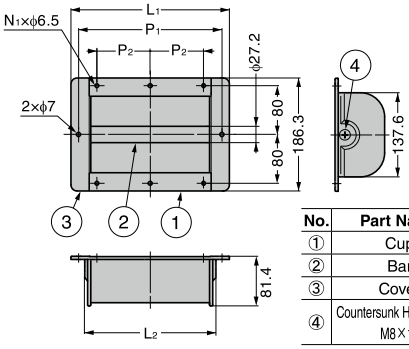
[Application Example]





[Cut Out Dimensions]





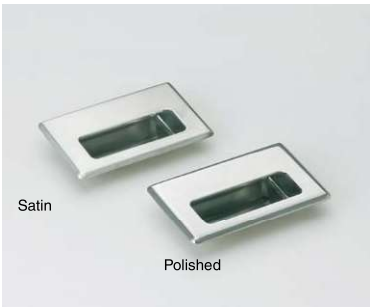
No.	Part Name	Material	Finish
①	Cup	Stainless Steel (SUS304)	Polished
②	Bar		
③	Cover	Stainless Steel (SCS13)	
④	Countersunk Head Screw M8×15	Stainless Steel	–

※SCS13 is equivalent to SUS304.

RoHS	CAD	Item Code	Item Name	L_1	L_2	L_3	P_1	P_2	N_1	Holes N_2	Load Capacity N	Load Capacity kgf	Weight (kg)	Box (pcs)	Carton (pcs)
G	3D	100-012-306	HH-M200	260	215	218	235	87.5	6	8	4500	459	2.6	1	4
G	3D	100-012-305	HH-M400	460	415	418	435	125	8	10	2200	224	3.7	1	2

STAINLESS STEEL RECESSED PULL HH

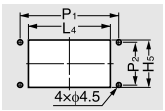
NSF SUS

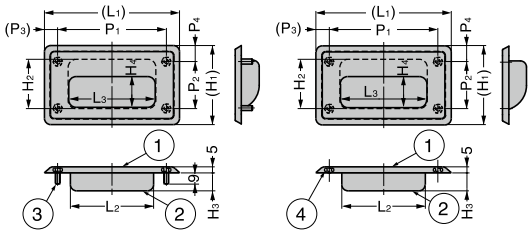


- Simple design.
- Satin and polished finish available.
- HH-FB-1, HH-FC-1, HH-FB-1M and HH-FC-1M are compliant with SEMI standard (SEMI S8-0308).

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

[Cut Out Dimensions]





HH-FB, HH-FBM　　HH-FC, HH-FCM

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

RoHS	CAD	Item Code	Item Name	Bolt/Nut	Material	Finish	L_1	L_2	L_3	L_4	H_1	H_2	H_3	H_4	H_5	P_1	P_2	P_3	P_4	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	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
G	3D	100-010-091	HH-FC-1	M4 Nut																	10	50
G	3D	100-010-092	HH-FB-2	M4 Bolt			109.5	71	70	73	64	40	14.5	25	42	88	38	10.75	13	100	10	100
G	3D	100-010-093	HH-FC-2	M4 Nut																	10	100
G	3D	100-010-094	HH-FB-3	M4 Bolt			94	61	60	63	60	43	12		45	76	32	9	14	80	10	100
G	3D	100-010-095	HH-FC-3	M4 Nut																	10	100
G	3D	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
G	3D	100-012-105	HH-FC-1M	M4 Nut																	10	50
G	3D	100-012-106	HH-FB-2M	M4 Bolt			109.5	71	70	73	64	40	14.5	25	42	88	38	10.75	13	100	10	100
G	3D	100-012-107	HH-FC-2M	M4 Nut																	10	100
G	3D	100-012-108	HH-FB-3M	M4 Bolt			94	61	60	63	60	43	12		45	76	32	9	14	80	10	100
G	3D	100-012-109	HH-FC-3M	M4 Nut																	10	100

STAINLESS STEEL RECESSED PULL HH-KL160 SEMI Compliance

NSF SUS

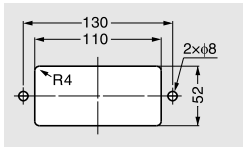


- All-metal material suitable for equipment with electromagnetic shielding requirements.
- Compliant with SEMI standard (SEMI S8-0600).
- Use optional spacer when installing to sheet metal.

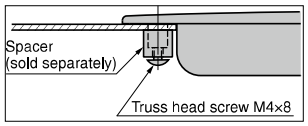
[Parts Included]
- Truss head screw M4×8 (SUS)

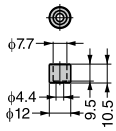
[Sold Separately]
- Spacer BSP-8

[Cut Out Dimensions]

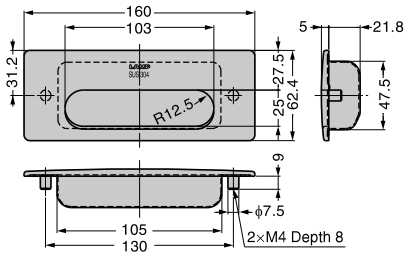


[Installation]





Spacer (sold separately)



[Body]

RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	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 to SUS304.

[Spacer] Sold Separately

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

STAINLESS STEEL RECESSED PULL HH-KPR150-SH SEMI Compliant

TEST METHOD 20 SUS

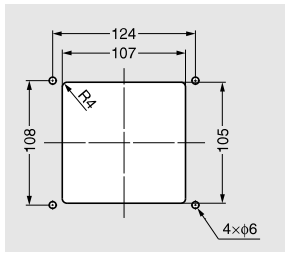


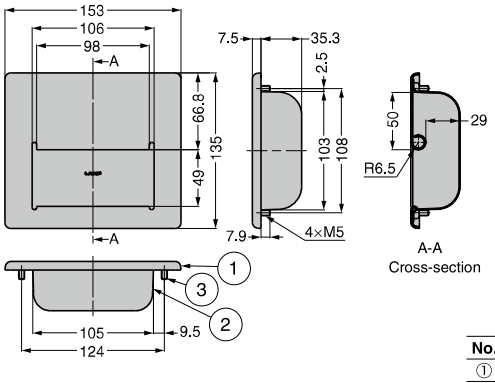
- Compliant with SEMI standard. (SEMI S8-0218 section 6.8)
- The bolts are designed to swing for easy installation

[Application]
- Semiconductor and liquid crystal manufacturing equipment

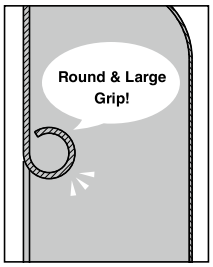
[Parts Included]
- Hexagon head bolts M5 (stainless steel)

[Cut Out Dimensions]





[Easy to Hold]



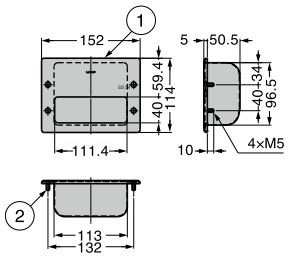
RoHS	CAD	Item Code	Item Name	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-044-558	HH-KPR150-SH	400	41	443	5	50

No.	Part Name	Material	Finish
①	Plate	Stainless Steel (SUS304)	Satin
②	Cup		
③	Hexagon Head Bolt M5×10	Stainless Steel	Plain

STAINLESS STEEL RECESSED PULL HH-KP150 SEMI Compliance

NSF SUS

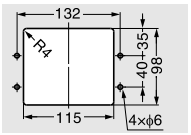




- All-metal material suitable for equipment with electromagnetic shielding requirements.
- Compliant with SEMI standard (SEMI S8-0600).

[Parts Included]
- M5 Hexagon nut (SUS)

[Cut Out Dimensions]



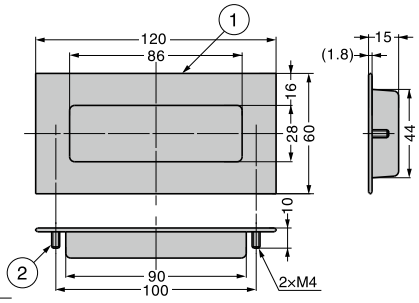
No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Thread Part	Steel	Copper Plating

RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-012-960	HH-KP150	390	5	50

STAINLESS STEEL RECESSED PULL HH-AS2

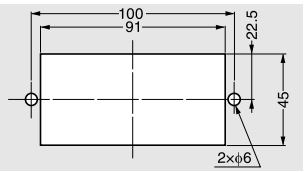
NSF SUS





[Parts Included]
- M4 nut, washer 4 (both clear zinc chromate)

[Cut Out Dimensions]



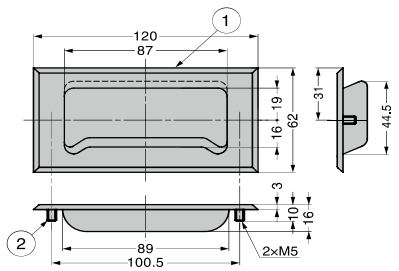
No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Thread Part	Stainless Steel (SUS304)	Plain

RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-019-030	HH-AS2	50	12	240

STAINLESS STEEL RECESSED PULL HH-AS3

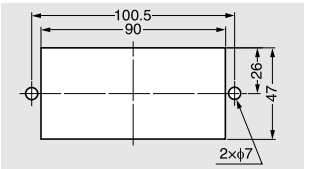
SUS





[Parts Included]
- M5 nut (clear zinc chromate)

[Cut Out Dimensions]



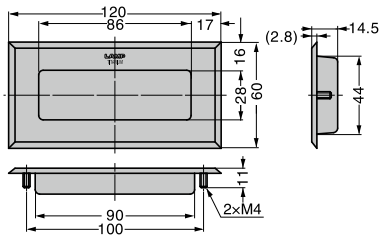
No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Satin
②	Thread Part	Steel	Copper Plating

RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
–	3D	100-010-008	HH-AS3	50	12	240

TITANIUM RECESSED PULL HH-AS2-TI

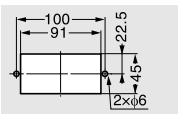
TITANIUM





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

[Cut Out Dimensions]

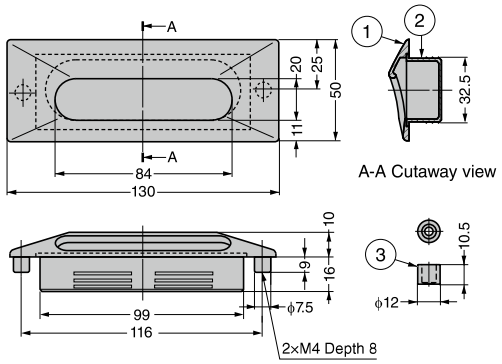


RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-010-582	HH-AS2-TI	Titanium	Blast	30	12	240

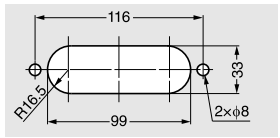
RECESSED PULL UTZ-130



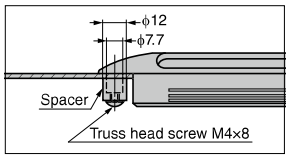
[Parts Included]
- Truss head screw M4×8
- Spacer



[Cut Out Dimensions]



[Installation]



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)
G	3D	100-010-225	UTZ-130WB	Satin Nickel	105	10	60
G	3D	100-010-226	UTZ-130CR	Chrome		10	60
G	3D	100-010-717	UTZ-130SCP	Bronze		10	60

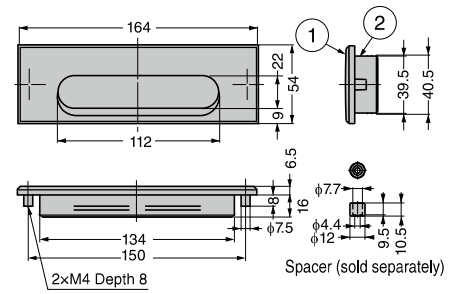
RECESSED PULL SD-160



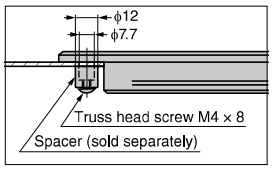
[Parts Included]
- Truss head screw M4×28 (for wood)

[Sold Separately]
- Spacer BSP-8

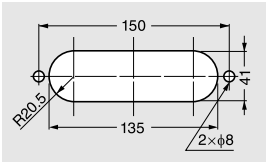
[Recommended Screws]
- Truss head screw M4×8



[Installation]



[Cut Out Dimensions]



[Body]

RoHS	CAD	Item Code	Item Name	Finish	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-010-194	SD-160WB	White Bronze Plating	184	10	60
G	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)
G	3D	100-019-635	BSP-8	Steel (SUM)	Coloured Zinc Chromate	6	–	4000

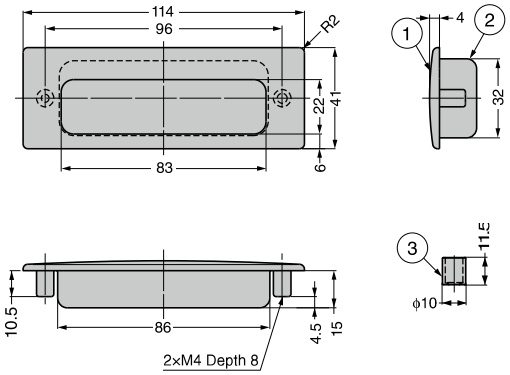
No.	Part Name	Material	Finish / Colour
①	Body	Zinc Alloy (ZDC)	White Bronze Plating, Chrome
②	Cup	ABS	Black

STAINLESS STEEL RECESSED PULL HH-KS114

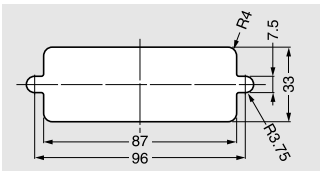
SUS316



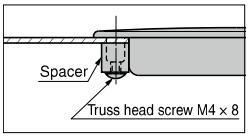
[Parts Included]
- Spacer
- For sheet metal t = 2: truss head tapping screw M4×8 (SUS)
- For wood panel t = 20: truss head tapping screw M4×15 (SUS)



[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 to SUS316.

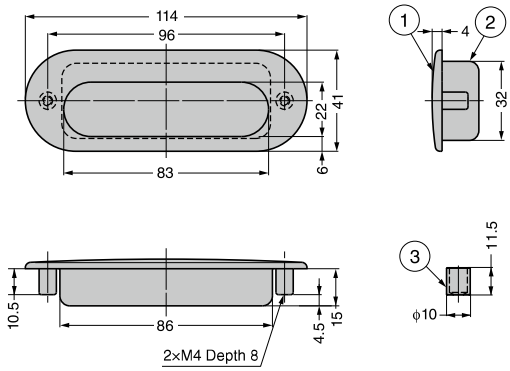
RoHS	CAD	Item Code	Item Name	Finish	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-010-583	HH-KS114M	Polished	110	10	60
G	3D	100-010-584	HH-KS114S	Satin		10	60

STAINLESS STEEL RECESSED PULL HH-DS114

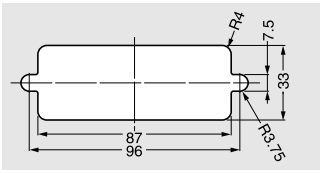
SUS316



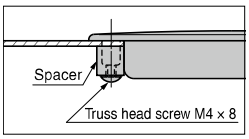
[Parts Included]
- Spacer
- For sheet metal t = 2: truss head tapping screw M4×8 (SUS)
- For wood panel t = 20: truss head tapping screw M4×15 (SUS)



[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 to SUS316.

RoHS	CAD	Item Code	Item Name	Finish	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-010-585	HH-DS114M	Polished	105	10	60
G	3D	100-010-586	HH-DS114S	Satin		10	60

STAINLESS STEEL RECESSED PULL HH-K

NSF SUS316

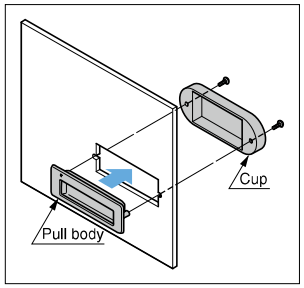


- Designed to install by pinching the door with body and cup. (Sheet metal thickness: Max. 2mm).

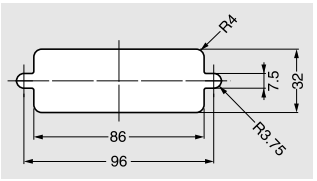
[Parts Included]

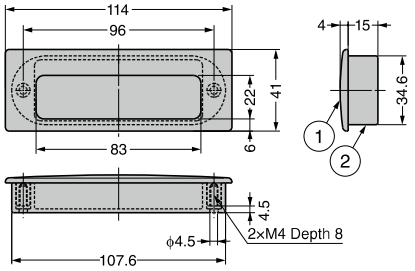
- For sheet metal t = 2: truss head tapping screw M4×10 (SUS)
- For wood panel t = 20: truss head tapping screw M4×15 (SUS)

[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 to SUS316.

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

STAINLESS STEEL RECESSED PULL HH-D

NSF SUS316

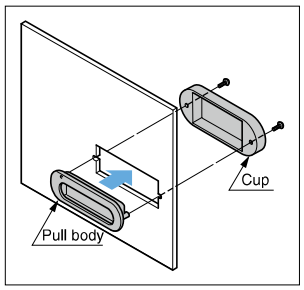


- Designed to install by pinching the door with body and cup. (Sheet metal thickness: Max. 2mm).

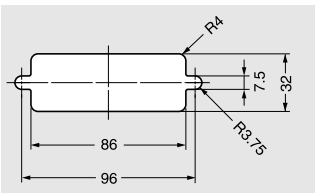
[Parts Included]

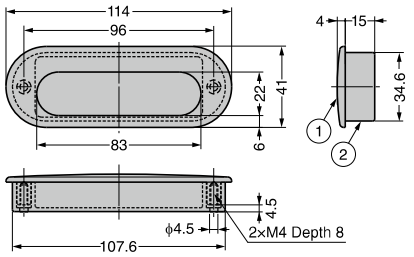
- For sheet metal t = 2: truss head tapping screw M4×10 (SUS)
- For wood panel t = 20: truss head tapping screw M4×15 (SUS)

[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 to SUS316.

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

RECESSED PULL HH-DN



HH-DN-50WB



HH-DN-40WB



HH-DN-29WB

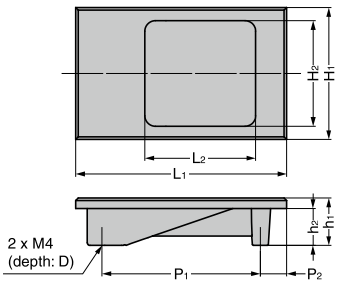
- Small flush pull handle made of metal.
- A new smaller size type is added to the lineup.
  The new HH-DN-29WB perfectly fits one finger.
- Can also be used on sheet metal when using with HH-DN-BKT bracket.

[Parts Included]

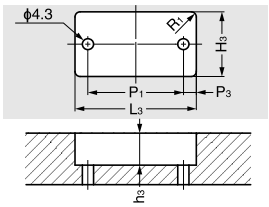
- Countersunk truss head screw M4 x 12 (for wood installation)

[Optional Parts]

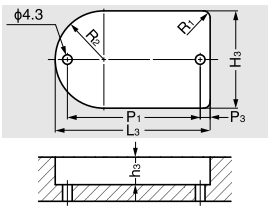
- Bracket for Sheet Metal HH-DN-BKT



[Installation on Wood]

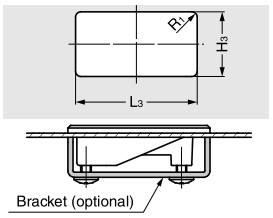


HH-DN-29WB / HH-DN-40WB

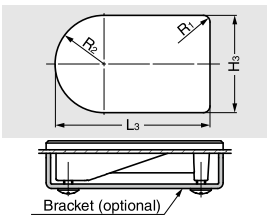


HH-DN-50WB

[Installation on Sheet Metal]



HH-DN-29WB / HH-DN-40WB



HH-DN-50WB

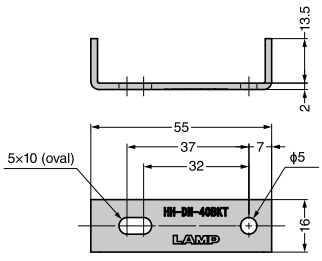
RoHS	CAD	Item Code	Item Name	Old Name	Material	Finish	L1	L2	H1	H2	h1	h2	P1	P2	D	L3	H3	P3	R1	R2	h3	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-049-509	HH-DN-29WB	–	Zinc Alloy (ZDC)	White Bronze	55	32	29	20	15.5	12.5	37	11	8.5	47	25	4	2	–	12.5	50	40	160
G	3D	100-014-085	HH-DN-40WB	5103-55				31.5	40	31.5			32	16	7	46	36	10				35	40	160
G	3D	100-014-084	HH-DN-50WB	5103-80			80	42	50	40	18	14	60	10	5	70	44	4.5	3	22	14	85	20	80

BRACKET FOR SHEET METAL HH-DN-BKT

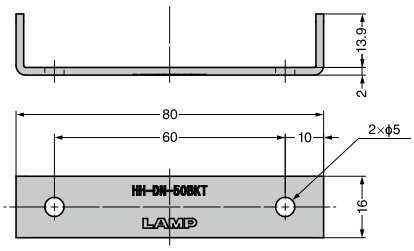


HH-DN-50BKT

HH-DN-40BKT



HH-DN-40BKT



HH-DN-50BKT

[Parts Included]

- Cross-recessed truss head screw M4 x 10

RoHS	CAD	Item Code	Item Name	Material	Finish	Available Pull	Avialable Thickness	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-049-510	HH-DN-40BKT	Steel	Coloured Chromate (trivalent)	HH-DN-29WB / HH-DN-40WB	0.8 - 2.3	19	40	160
G	3D	100-049-511	HH-DN-50BKT			HH-DN-50WB	0.8 - 3.2	26	40	160

RECESSED PULL HH-UD

SUS

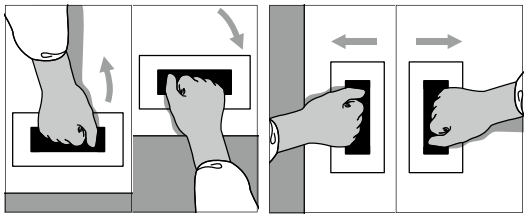


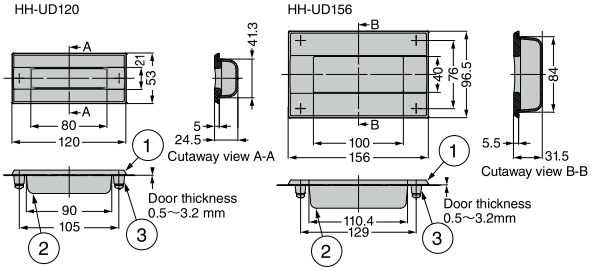
- Grips on both sides allow the door to be moved in either direction.
- Solid grip interior with rounded edges for optimum comfort.
- The HH-UD156 is compliant with the SEMI S8-0915.

[Recommended Screw]

- M5 screw (length: board thickness +0mm/-3mm)

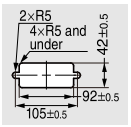
Video Link



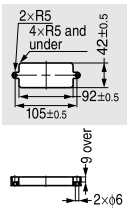


[Cut Out Dimensions]

Sheet metal

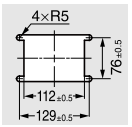


Wood

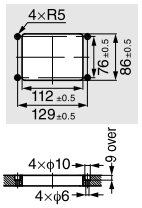


[Cut Out Dimensions]

Sheet metal



Wood



No.	Part Name	Material
①	Body	Stainless Steel (SCS13)
②	Cup	ABS and PC
③	Spacer	Stainless Steel (SUS304)

RoHS	CAD	Item Code	Item Name	Finish	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-037-024	HH-UD120SH	Satin	500	51	193	1	40
G	3D	100-037-025	HH-UD120SM	Mirror				1	40
G	3D	100-037-026	HH-UD156SH	Satin			502	1	40
G	3D	100-037-027	HH-UD156SM	Mirror				1	40

STAINLESS STEEL RECESSED PULL DFHH-DS170

SUS



- Grips on both sides allow the door to be moved in either direction.

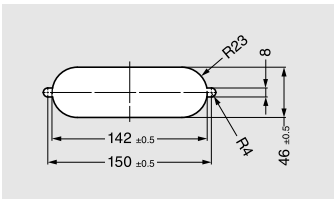
[Parts Included]
- Countersunk truss head screw M4×14 (for wood installation)

[Sold Separately]
- Spacer BSP-8 (for sheet metal)

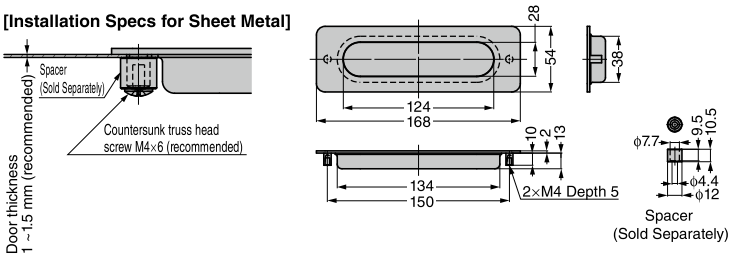
[Recommended Screws]
- Countersunk truss head screw M4×6 (for sheet metal)

*Door thickness 1 ~1.5 mm

[Cut Out Dimensions for Sheet Metal]



[Installation Specs for Sheet Metal]



[Body]

RoHS	CAD	Item Code	Item Name	Material	Finish/Colour	Weight (g)
G	3D	100-049-761	DFHH-DS170SH	Stainless Steel (SUS304)	Satin	125
G	3D	100-049-762	DFHH-DS170BL		Paint/Black	

Spacer (Sold Separately)

RoHS	CAD	Item Code	Item Name	Material	Finish
G	3D	100-019-635	BSP-8	Steel (SUM)	Coloured Chromate

STAINLESS STEEL RECESSED PULL DFHH-KS170

SUS



- Grips on both sides allow the door to be moved in either direction.

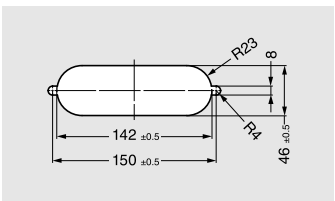
[Parts Included]
- Countersunk truss head screw M4×14 (for wood installation)

[Sold Separately]
- Spacer BSP-8 (for sheet metal)

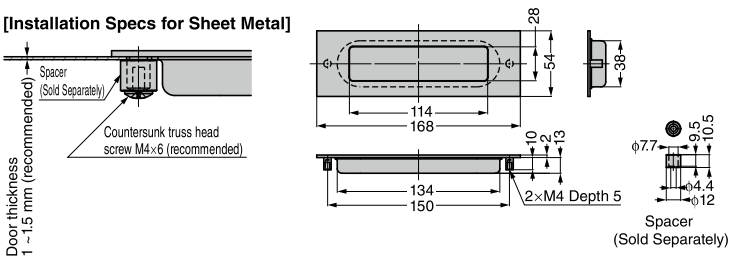
[Recommended Screws]
- Countersunk truss head screw M4×6 (for sheet metal)

*Door thickness 1 ~1.5 mm

[Cut Out Dimensions for Sheet Metal]



[Installation Specs for Sheet Metal]



[Body]

RoHS	CAD	Item Code	Item Name	Material	Finish/Colour	Weight (g)
G	3D	100-049-763	DFHH-KS170SH	Stainless Steel (SUS304)	Satin	140
G	3D	100-049-764	DFHH-KS170BL		Paint/Black	

Spacer (Sold Separately)

RoHS	CAD	Item Code	Item Name	Material	Finish
G	3D	100-019-635	BSP-8	Steel (SUM)	Coloured Chromate

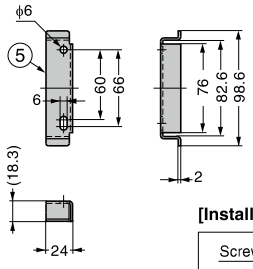
STAINLESS STEEL TRUNK HANDLE HCT-150 High Load Capacity

INSTRUCTION SUS316

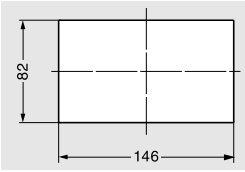


- The handle retracts automatically by a spring.

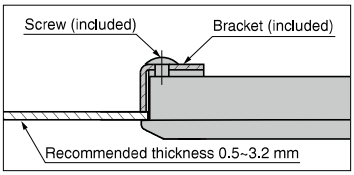
[Parts Included]
- Truss head screw M5x12 (SUS)
- Bracket for sheet metal (SUS)

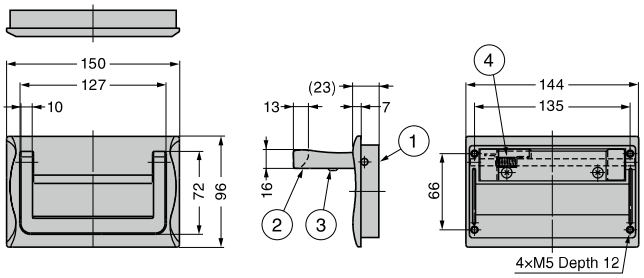


[Cut Out Dimensions]



[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 to SUS316.

RoHS	CAD	Item Code	Item Name	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-017-557	HCT-150	980	100	990	1	1

TRUNK HANDLE MUD-140

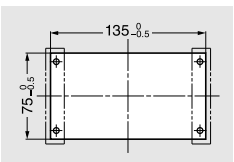
TEST METHOD 1 INSTRUCTION



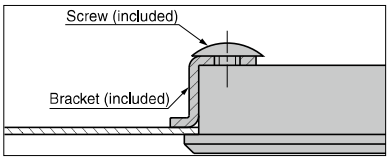
- The handle retracts automatically by a spring.

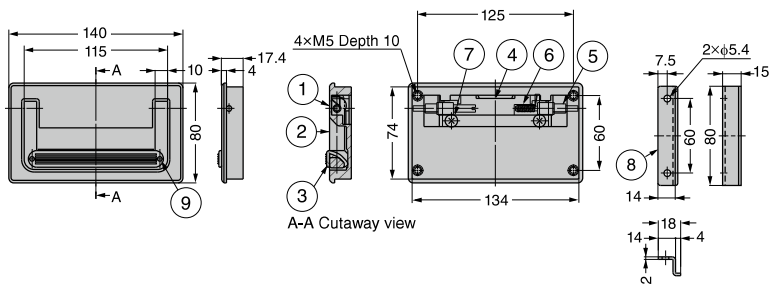
[Parts Included]
- Truss head screw M5x8
- Bracket for sheet metal

[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)
G	3D	100-901-272	MUD-140	294	30	620	5	20

TRUNK HANDLE TMU-115

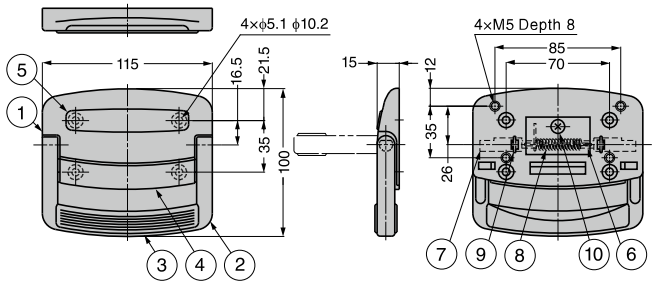
TEST METHOD 1 INSTRUCTION



- 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	Elastomer (TPE)	Dark Blue
④	Case Cover 1		
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)
–	3D	100-901-273	TMU-115	392	40	460	10	40

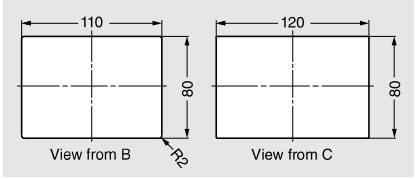
TRUNK HANDLE PT-148

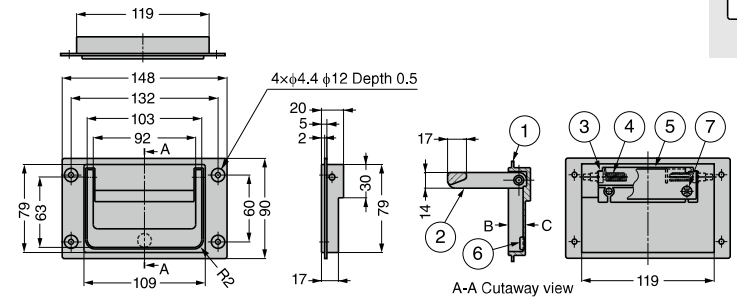
TEST METHOD 1



- Spring loaded trunk handle.

[Cut Out Dimensions]





No.	Part Name	Material	Finish / Colour
①	Body	Zinc Alloy (ZDC)	Grey Enamel
②	Handle		Finish
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)
GT	3D	100-019-183	PT-148	490	50	645	20	–

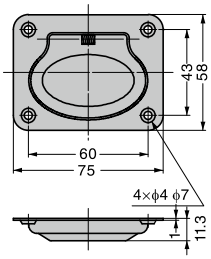
STAINLESS STEEL RING PULL 980643

TEST METHOD 2 SUS

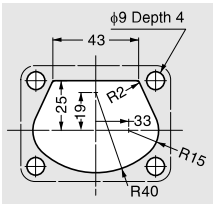


- The handle retracts automatically by a spring when not in use.

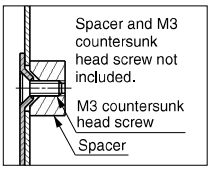
[Parts Included]
- Tapping screw 3.5×16 (SUS)



[Cut Out Dimensions]



[For Sheet Metal]



RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-011-739	980643	Stainless Steel (SUS304)	Polished	245	25	51	10	200

Please contact your local agent or your nearest Sugatsune subsidiary for detail/availability.

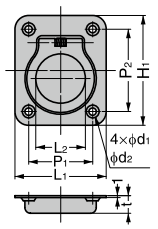
STAINLESS STEEL RING PULL 980641, 980642

TEST METHOD 2 SUS

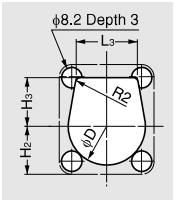


- The handle retracts automatically by a spring when not in use.

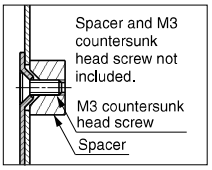
[Parts Included]
- 980641: Tapping screw 3×16 (SUS)
- 980642: Tapping screw 3.5×16 (SUS)



[Cut Out Dimensions]



[For Sheet Metal]



RoHS	CAD	Item Code	Item Name	Material	Finish	L1	L2	L3	H1	H2	H3	D	t	P1	P2	d1	d2	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	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
G	3D	100-011-738	980642			50	27	25	60	25	25	41	9.5	35	45	4.4	7	245	25	36	10	200

Please contact your local agent or your nearest Sugatsune subsidiary for detail/availability.

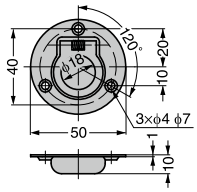
STAINLESS STEEL RING PULL 980640

TEST METHOD 2 SUS

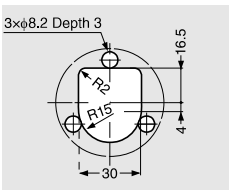


- The handle retracts automatically by a spring when not in use.

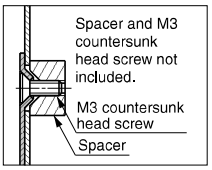
[Parts Included]
- Tapping screw 3×16 (SUS)



[Cut Out Dimensions]



[For Sheet Metal]

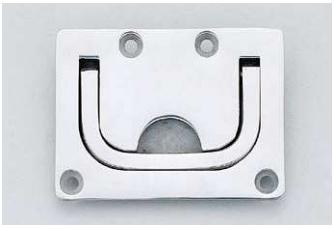


RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-011-740	980640	Stainless Steel (SUS304)	Polished	196	20	23	10	300

Please contact your local agent or your nearest Sugatsune subsidiary for detail/availability.

STAINLESS STEEL RING PULL 26700

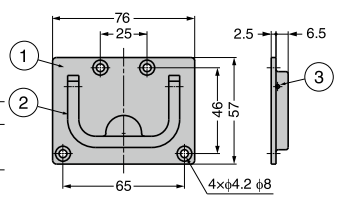
SUS316



[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]



No.	Part Name	Material	Finish / Colour
①	Body	Stainless Steel (SCS14)	Mirror
②	Handle		
③	Pin	Stainless Steel (SCS14) Stainless Steel (SUS304)	Plain

※SCS14 is equivalent to SUS316.

RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-096-011	26700	Body and Handle : Stainless Steel (SCS14) Pin : Stainless Steel (SUS304)	Mirror	120	10	100
G	–	100-043-251	26700-1	All Stainless Steel (SCS14)		–	10	100

※The 26700-1 is suitable for exterior use. (e.g. marine)

Please contact your local agent or your nearest Sugatsune subsidiary for detail/availability.

STAINLESS STEEL RING PULL 26901

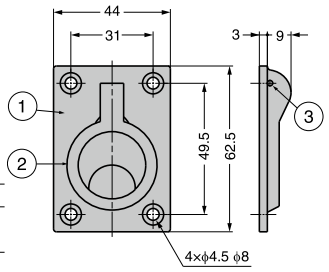
SUS316



[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]



No.	Part Name	Material	Finish / Colour
①	Body	Stainless Steel (SCS14)	Mirror
②	Handle		
③	Pin	Stainless Steel (SUS304)	Plain

※SCS14 is equivalent to SUS316.

RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-096-010	26901	Stainless Steel (SCS14)	Polished	85	20	100

Please contact your local agent or your nearest Sugatsune subsidiary for detail/availability.

STAINLESS STEEL RING PULL 26900

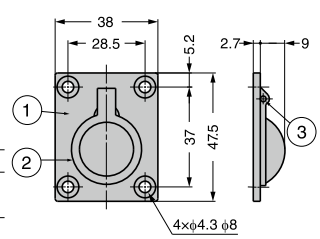
SUS316



[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]



No.	Part Name	Material	Finish / Colour
①	Body	Stainless Steel (SCS14)	Mirror
②	Handle		
③	Pin	Stainless Steel (SUS304)	Plain

※SCS14 is equivalent to SUS316.

RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-096-009	26900	Stainless Steel (SCS14)	Polished	45	20	100

Please contact your local agent or your nearest Sugatsune subsidiary for detail/availability.

STAINLESS STEEL HATCH PULL ST-90, ST-115



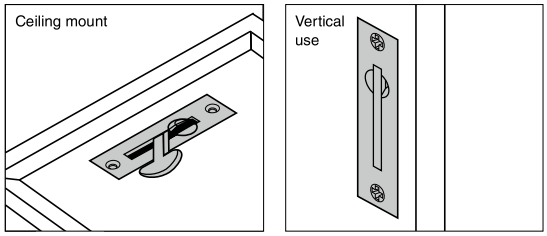
- Ideal for use in places where projection from surface is not permitted, such as switch boards and inspection ports.
- Built-in spring prevents handle from hanging out.
- Vertical use and ceiling mount are possible.

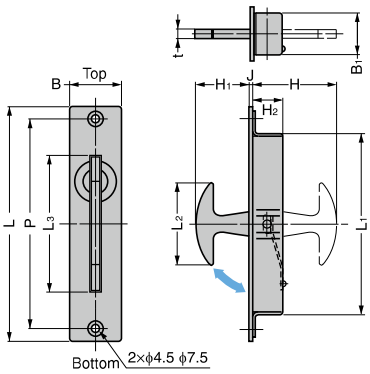
[Applications]
- Control panels, switch boards, and inspection ports, etc.

[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	L1	L2	L3	H	H1	H2	J	B	B1	t	P	Weight (g)	Box (pcs)	Carton (pcs)
G	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
G	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



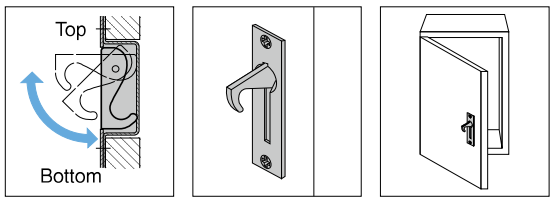
- Ideal for use in places where projection from surface is not permitted, such as switch boards and inspection ports.
- Thick and smooth handle.

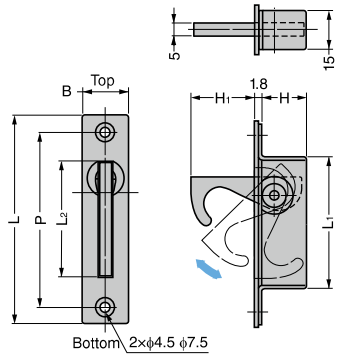
[Applications]
- Control panels, switch boards, and inspection ports, etc.

[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]



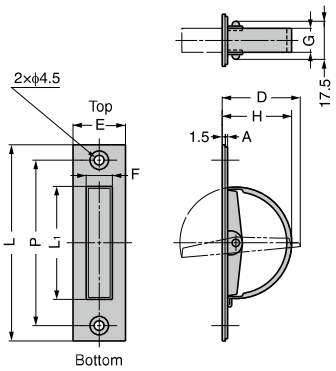


RoHS	CAD	Item Code	Item Name	Material	Finish	L	L1	L2	H	H1	B	P	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-010-244	ST-80	Stainless Steel (SUS304)	Satin	80	50	45	18	25	18	68	48	30	300
G	3D	100-010-245	ST-100			100	63	55.2	21	32	20	85	66	20	200

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.

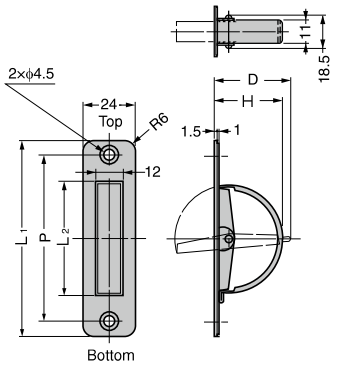
[Parts Included]
- HR-90S: Countersunk head wood screw 3.5×22 (SUS)
- HR-110S & HR-135S: Countersunk head wood screw 3.5×25 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	L	L1	P	H	D	A	E	F	G	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-012-614	HR-90S	Stainless Steel (SUS304)	Satin	90	52	76	32	36	1	24	12	11	127	13	49	30	300
G	3D	100-012-615	HR-110S			110	64	94	38	42					98	10	59	20	200
G	3D	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.

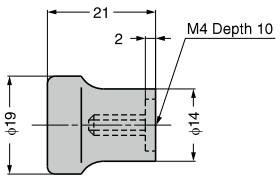
[Parts Included]
- Countersunk head wood screw 3.5×22 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	L1	L2	P	H	D	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-019-058	HR-90RS	Stainless Steel (SUS304)	Satin	90	52	76	32	36	127	13	46	30	300
G	3D	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

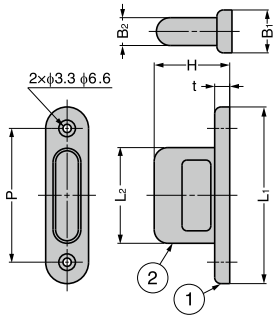


RoHS	CAD	Item Code	Item Name	Material	Colour	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-012-074	GD-20	ABS	Black	5	50	500

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

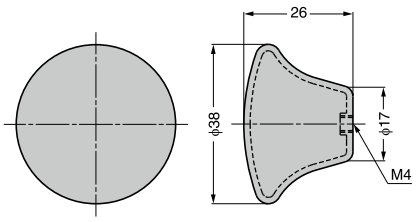
RoHS	CAD	Item Code	Item Name	L1	L2	P	B1	B2	H	t	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-012-192	HS-60S	60	30	44	16	9	25	5	13	40	400
G	3D	100-012-193	HS-70S	70	38	53	17	11	30	6	20	30	300

Refer to 1 : P.640

STAINLESS STEEL KNOB RS-38S

NSF SUS



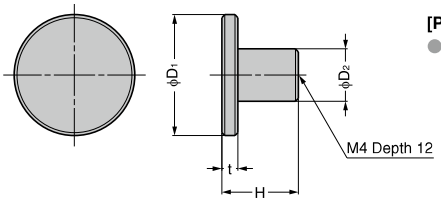


[Parts Included]
- Truss head screw M4×30 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	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	D1	D2	H	t	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-012-080	EXSEL20	Aluminium Alloy	Stainless Steel/Anodised	20	10	18	4	5	48	1152
G	3D	100-012-081	EXSEL25			25	11	18.5	4.5	8.5	48	1152
G	3D	100-012-082	EXSEL30			30	12	19	5	15	48	1152
G	3D	100-012-083	EXSEL35			35	13			16.5	24	576
G	3D	100-050-636	EXSEL20BL		Black/Anodised	20	10	18	4	5	48	1152
G	3D	100-050-637	EXSEL25BL			25	11	18.5	4.5	8.5	48	1152
G	3D	100-050-638	EXSEL30BL			30	12	19	5	15	48	1152
G	3D	100-050-639	EXSEL35BL			35	13			16.5	24	576

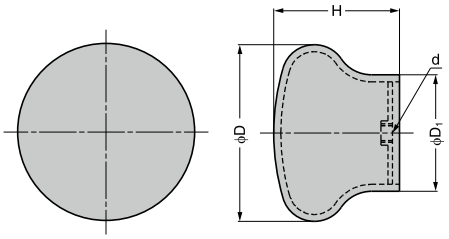
STAINLESS STEEL KNOB RSS



- Hollow and light.

[Applications]
- Medical/professional sinks, cars, and ships, etc.

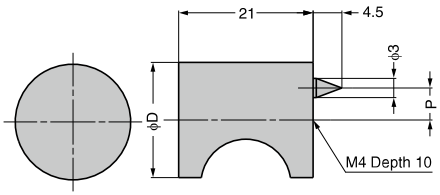
[Parts Included]
- RSS-25S, RSS-25M, RSS-30S, RSS-30M: Truss head screw M4×30 (SUS)
- RSS-38S, RSS-38M, RSS-50S, RSS-50M: Truss head screw M5×30 (SUS)



RoHS	CAD	Item Code	Item Name	Material	Finish	H	D	D_1	d	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-011-194	RSS-25S	Stainless Steel (SUS304)	Satin	22	25	18	M4	8.5	20	200
G	3D	100-011-190	RSS-25M		Polished						20	200
G	3D	100-011-195	RSS-30S		Satin	23	30	20		11	20	200
G	3D	100-011-191	RSS-30M		Polished						20	200
G	3D	100-011-196	RSS-38S		Satin	27	38	25	M5	16	20	200
G	3D	100-011-192	RSS-38M		Polished						20	200
G	3D	100-011-197	RSS-50S		Satin	34	50	35		30	20	200
G	3D	100-011-193	RSS-50M		Polished						20	200

KNOB MRB





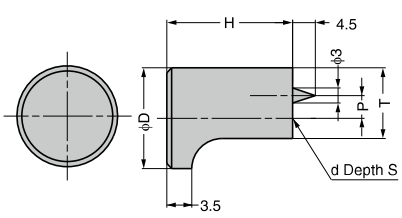
[Remarks]
- Pin position and size may vary.

[Parts Included]
- Truss head screw M4×25

RoHS	CAD	Item Code	Item Name	Material	Finish	D	P	Weight (g)	Box (pcs)	Carton (pcs)
–	3D	100-010-721	MRB-18	Brass	White Bronze Plating	18	5	38	30	300
–	3D	100-010-722	MRB-24			24	5.5	70	30	300

KNOB GLA





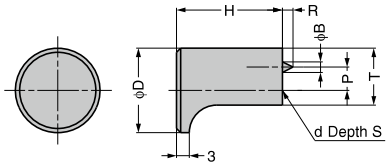
[Remarks]
- Pin position and size may vary.

[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)
–	3D	100-010-718	GLA-12	Brass	White Bronze Plating	12	18	8.5	3.5	M3	8	14	50	500
–	3D	100-012-323	GLA-16			16	22	11	4	M4	10	29	40	400
–	3D	100-010-720	GLA-20			20	25	14	4.5			52	40	400

KNOB SGL





- Compliant with flame retardancy standard UL94-HB.

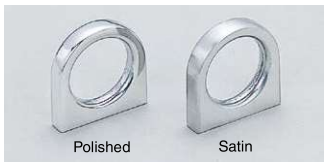
[Remarks]
- Pin position and size may vary.

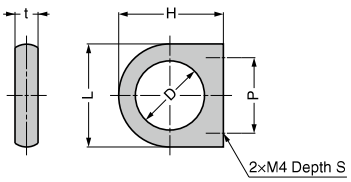
[Parts Included]
- SGL-12: Truss head screw M3×28
- SGL-16, SGL-20: Truss head screw M4×28

RoHS	CAD	Item Code	Item Name	Material	Finish	D	H	T	P	B	R	d	S	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-012-016	SGL-12	ABS	Satin Chrome	12	18	8.5	3	2	2	M3	9.5	1	60	1800
G	3D	100-012-017	SGL-16			16	22	11	4		2.5	M4	13.5	2	40	1200
G	3D	100-012-018	SGL-20			20	25	13.5	5	2.5			15.5	3.5	30	900

STAINLESS STEEL PULL SD

SUS



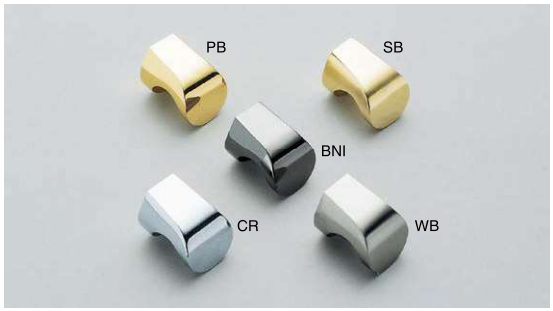


[Parts Included]
- Truss head screw M4×25

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

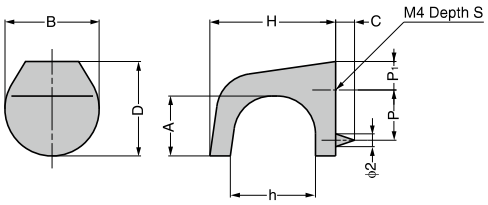
※SCS13 is equivalent to SUS304.

KNOB MKZ



[Remarks]
- Pin position and size may vary.

[Parts Included]
- Truss head screw M4×25

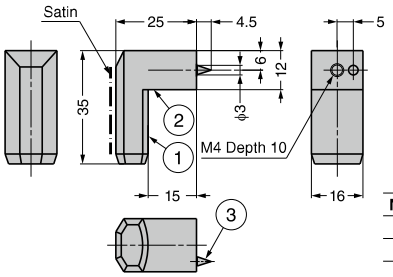


RoHS	CAD	Item Code	Item Name	Material	Finish	D	A	B	C	H	h	P	P_1	S	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-018-042	MKZ-15PB	Zinc Alloy (ZDC)	Brass/Clear	16	8	15	2	20	13.5	8	5.5	6	11	50	500
G	3D	100-018-043	MKZ-15CR		Chrome											50	500
–	3D	100-018-044	MKZ-15BNI		Black Nickel											50	500
G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

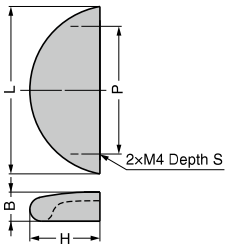
No.	Part Name	Material	Finish
①	Body 1	Stainless Steel (SUS303)	Polished and Satin Combination
②	Body 2	Stainless Steel (SUS304)	Polished
③	Pin	Stainless Steel (SUS303)	

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

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)
G	3D	100-901-049	RD-55SM	Stainless Steel (SCS14)	Polished	55	23	9.5	42	8	50	30	360
G	3D	100-901-050	RD-90SM			90	25.5	10.5	74	10	80	20	240

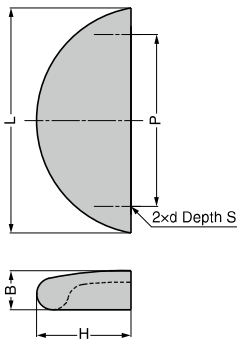
※SCS14 is equivalent to SUS316.

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)
G	3D	100-012-331	RD-45CR	Zinc Alloy (ZDC)	Chrome	45	32	19	8.2	M3	7	22	M3×28	40	480
G	3D	100-012-333	RD-45WB		White Bronze Plating									40	480
G	3D	100-012-330	RD-45BN		Black Nickel									40	480
G	3D	100-012-332	RD-45SG		Gold									40	480
G	3D	100-012-387	RD-45SL		Paint/Silver									40	480
G	3D	100-012-335	RD-55CR		Chrome	55	42	23	9.5	M4	8	35	M4×28	30	360
G	3D	100-012-337	RD-55WB		White Bronze Plating									30	360
G	3D	100-012-334	RD-55BN		Black Nickel									30	360
–	3D	100-012-336	RD-55SG		Gold									30	360
G	3D	100-012-162	RD-90CR		Chrome	90	74	25.5	10.5		9.5	63		20	240
G	3D	100-012-341	RD-90WB		White Bronze Plating									20	240
G	3D	100-012-338	RD-90BN		Black Nickel									20	240
–	3D	100-012-340	RD-90SG		Gold									20	240

PUSH KNOB PK04

INSTRUCTION



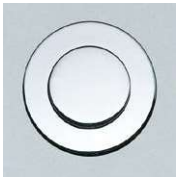
- Knob can be pushed in when not in use. And no projection from the door surface.
- Able to install to door thickness 15~35mm with cap included, 29~39mm with PK04VB (sold separately).

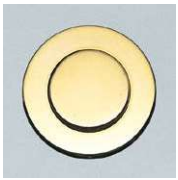
[Remarks]
- When processing the mounting holes on wooden door, please clear wood scraps before installation.
- When installing knob body and supplied screws, do not tighten with excessive force. (Recommended tightening torque: 4kgf・cm)
- Bracket for sheet metal not included.

[Parts Included]
- Truss head screw M3×20

[Sold Separately]
- Cap for thick door (PK04VB)


BN

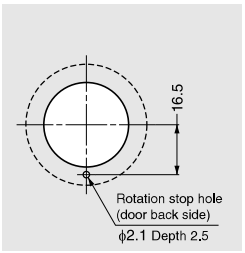

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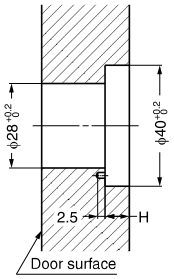

GA


DN

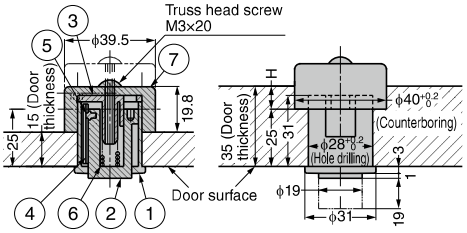

PK04VB (sold separately)

[Cut Out Dimensions]

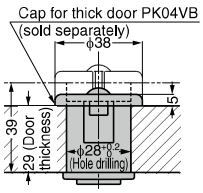




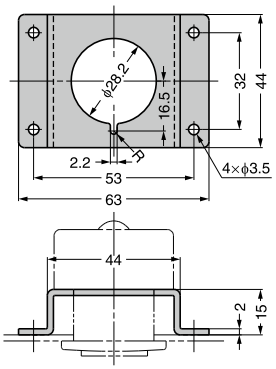
[Door Thickness 15~25] **[Door Thickness 26~35]**



[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)	
③	Cover		Coloured Zinc Chromate
④	Guide Plate		
⑤	Rotor		
⑥	Spring	Stainless Steel	Plain
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 (ϕ28 Hole), DT 26~35 : H = DT - 25	76	20	200
G	3D	100-015-024	PK04CR	Chrome				20	200
G	3D	100-015-026	PK04BN	Black Nickel				20	200
G	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)
G	3D	100-910-039	PK04VB	29~39	None (ϕ28 Hole)	Stainless Steel (SUS430)	Plain	13	100	800

Zwei L STAINLESS STEEL PUSH KNOB ZL-1908

INSTRUCTION SUS316



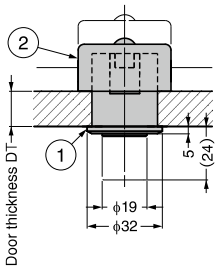
- Knob can be pushed in when not in use. And no projection from the door surface.
- Superior “Zwei L Finish” .
  Zwei L represents the very pinnacle of ultra-premium Japanese hardware design. Contrasting bands of mirror finish and lustrous satin on a faceted profile give jewel like highlights which flatter any architectural space.

Video Link

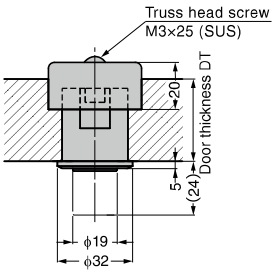
[Parts Included]

- Truss head screw M3×25 (SUS)

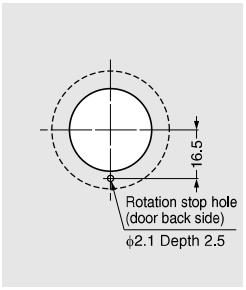
[Door Thickness 13~23 mm]

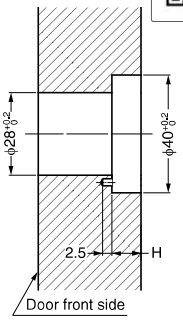


[Door Thickness 24~23 mm]



[Cut Out Dimensions]



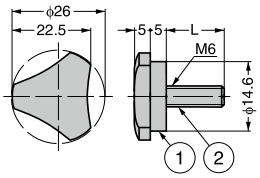


No.	Part Name	Material	Finish / Colour
①	Body	Stainless Steel (SUS316)	Zwei L Finish
②	Cap	ABS	Black

RoHS	CAD	Item Code	Item Name	Door Thickness DT	Bore Depth H	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	100-011-033	ZL-1908	13~33	DT 13~23 : H = None (ϕ28 Hole), DT 24~33 : H = DT - 23	134	1	–

KNOB (SMALL) 117





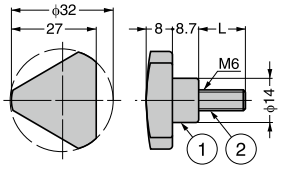
[Applications]
- Medical equipment, OA equipment, and testing equipment, etc.

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)	Pack (pcs)	Box (packs)	Carton (pcs)
G	3D	100-038-024	117-10116-P20	Black	15	8	20	5	–

KNOB (MEDIUM) 117





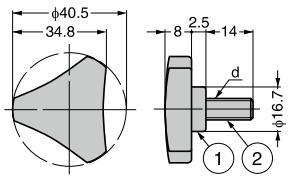
[Applications]
- Medical equipment, OA equipment, and testing equipment, etc.

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)	Pack (pcs)	Box (packs)	Carton (pcs)
G	3D	100-038-031	117-11707-P20	12	10	20	5	–

KNOB (LARGE) 117



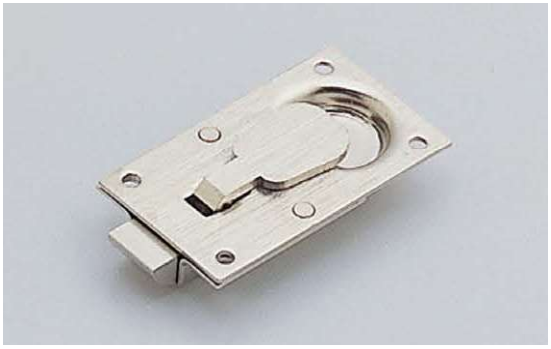


[Applications]
- Medical equipment, OA equipment, and testing equipment, etc.

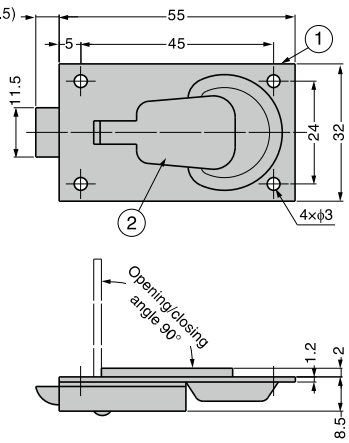
No.	Part Name	Material	Finish / Colour
①	Knob	PE	Black
②	Screw	Steel (SWCH)	Clear Zinc Chromate

RoHS	CAD	Item Code	Item Name	d	Weight (g)	Pack (pcs)	Box (packs)	Carton (pcs)
G	3D	100-038-027	117-10327-P20	M8	15	20	5	–

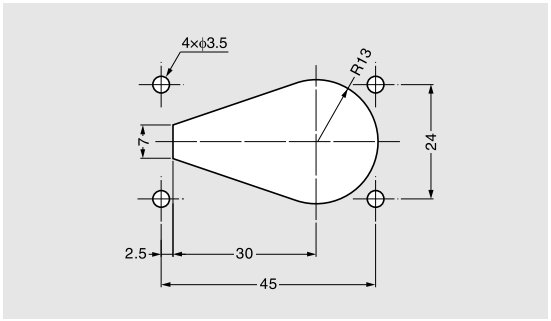
FLUSH SLAM LATCH P10-55H



- 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.



[Cut Out Dimensions]



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

RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	140-049-306	P10-55H	40	500	–

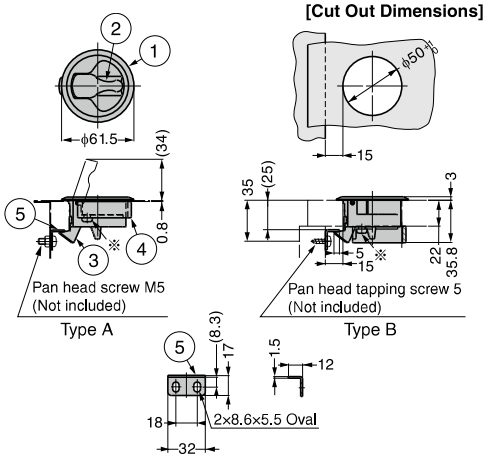
FLUSH SLAM LATCH LJ-61



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

[Cut Out Dimensions]



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

[Screws] ※marked part on the drawings

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

RoHS	CAD	Item Code	Item Name	Colour	Retaining Force N	Retaining Force kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	140-050-031	LJ-61-BL	Black	147	15	60	10	120
G	3D	140-059-200	LJ-61-WT	White				10	120

FLUSH SLAM LATCH LC-65A



- 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)

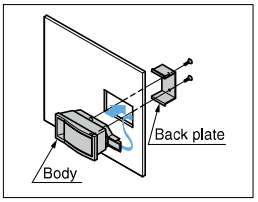
[Remarks]
- Please contact us when using other than the recommended door thickness.

[Parts Included]
- Pan head screw M4×8 (SUS)

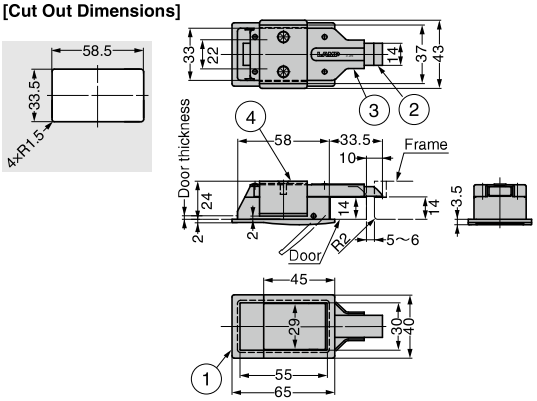
[Application Example]



[Installation]



[Cut Out Dimensions]



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)
G	3D	140-050-206	LC-65A	2~3.2	108	10	100

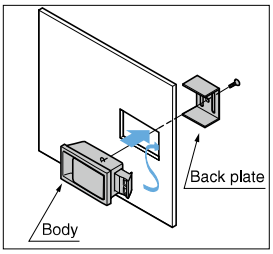
FLUSH SLAM LATCH LC-48



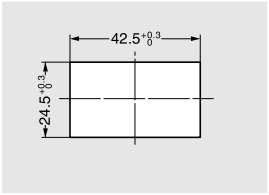
- Door will be latched when closed.
- Low profile eliminates worries about protruding to the inside of equipment.
- Mounting screws are invisible from door surface.
- UL94V-0 rated flame retardant material.
- Non-Handed. Can be installed on left or right side.
- Easy installation. Insert the latch body through cut out section and simply screw-on the back plate.

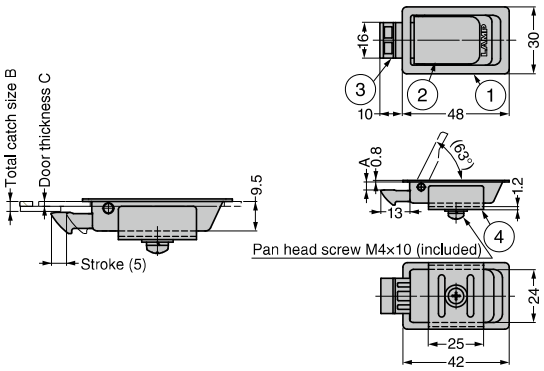
[Parts Included]
- Pan head screw M4×10 (SUS)

[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)
G	3D	140-021-199	LC-48-3	3.5	3.2	1~1.6	35	40	400
G	3D	140-021-200	LC-48-5	5.1	4.6	1~2.3		40	400

FLUSH SLAM LATCH LC-60

SUS



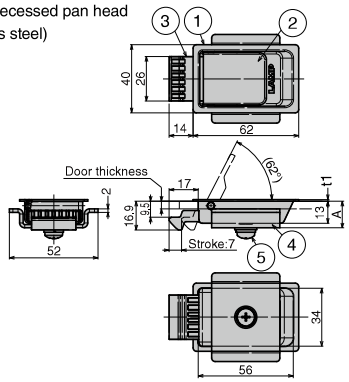
- Automatically locks doors when closed.
- Has a large finger pull for easy operation.
- The slim design does not take space inside the cabinet.
- Screws are hidden from outside.
- The latch bolt is compliant with flammability standard UL94-HB.

[Application]

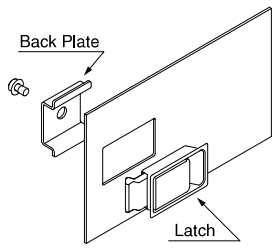
- Maintenance doors of control panels

[Parts Included]

- Spring washer / Cross-recessed pan head screw M6 x 12 (stainless steel)

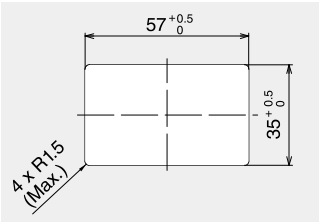


[Easy Installation]



Insert the latch through the cutout, and fix it with the back plate and screw.

[Cut Out Dimensions]



RoHS	CAD	Item Code	Item Name	A	Door Thickness	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	140-048-546	LC-60-3	15.7~16.9	2~3.2	94	20	120
G	3D	140-048-547	LC-60-5	15.7	4.5		20	120

No.	Part Name	Material	Finish
①	Case	Stainless Steel (SUS304)	Barrel Polished
②	Handle		
③	Latch Bolt	Polyamide (Glass reinforced)	Plain
④	Back Plate	Stainless Steel (SUS304)	
⑤	Cross-recessed pan head screw M6x12	Stainless Steel	

SNAP LOCK SX-48 Quick Installation & Temporary Holding

TEST METHOD 11

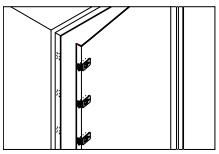


- Door or lid can be opened/closed with a single touch.
- Easy installation by one-touch.
- With temporary holding function.
  Even if multiple latches are installed, door can also be opened at once by keeping all of them temporarily held.
- Compliant with flame retardancy standards and UL94 standard.

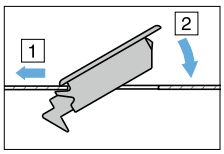
[Remarks]

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

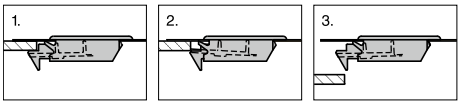
[Application Example]



[Installation]



[How to Operate]

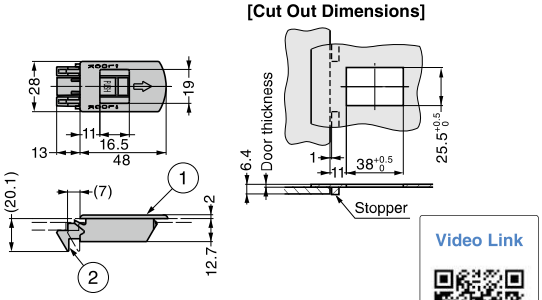


The door will be latched when closed.

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]



Video Link

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)
G	3D	140-050-037	SX-48	0.8~2.3	Black	49	5	11	40	400

PANEL LATCH LC-PK32, LC-PL32 Quick Installation





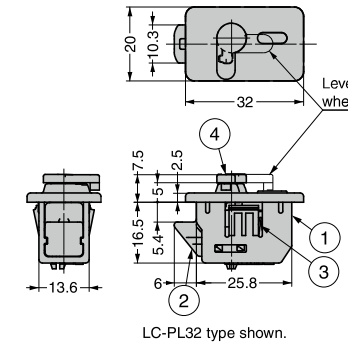


- Two types of lock/unlock methods available: lever type and key type.
- Lever and key are compatible.
- Turning the lever or key 90° counterclockwise to unlock the latch.
- With temporary holding function that holds the latch in unlocked state. Even if multiple latches are installed, door can also be 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).

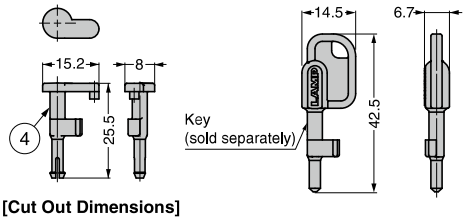
[Product Ordering]
- Lock/unlock with key: Order body (without lever) + key.
- Lock/unlock with lever: Order body (with lever).
- Change from key to lever: Order lever.

[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



LC-PL32 type shown.

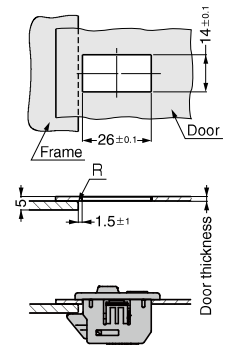


No.	Part Name	Material
①	Body	PP
②	Latch	PBT
③	Spring	Stainless Steel (SUS304)
④	Lever ※	PBT

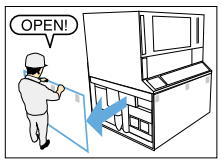
※The lever attached to LC-PL32 is the same as the optional lever.

Video Link

[Cut Out Dimensions]

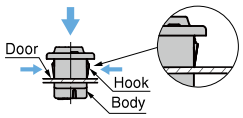


[Application Example]

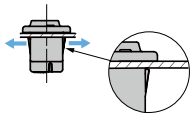


[Quick Installation]

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

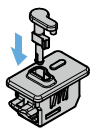


2. After installing, the hook returns to its original position.



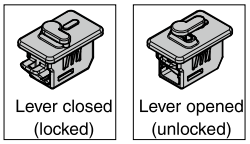
[How to Install the Lever]

1. Insert the lever straight.



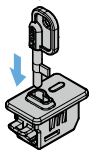
2. Until it snaps, check if the lever tip completely protrudes the body bottom.



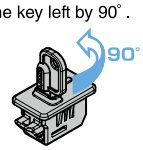


[How to Unlock with Key]

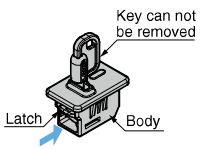
1. Insert the key.



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)
G	3D	140-020-694	LC-PK32-L-BL	Black	1.2, 1.5, 1.6	Without Lever	6	75	750
G	3D	140-020-695	LC-PK32-L-GR	Grey			6	75	750
G	3D	140-023-570	LC-PL32-BL	Black		With Lever	7	72	720
G	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)
G	3D	140-023-568	LC-PL32-L-BL	Black	1	200	2000
G	3D	140-023-567	LC-PL32-L-GR	Grey	1	200	2000

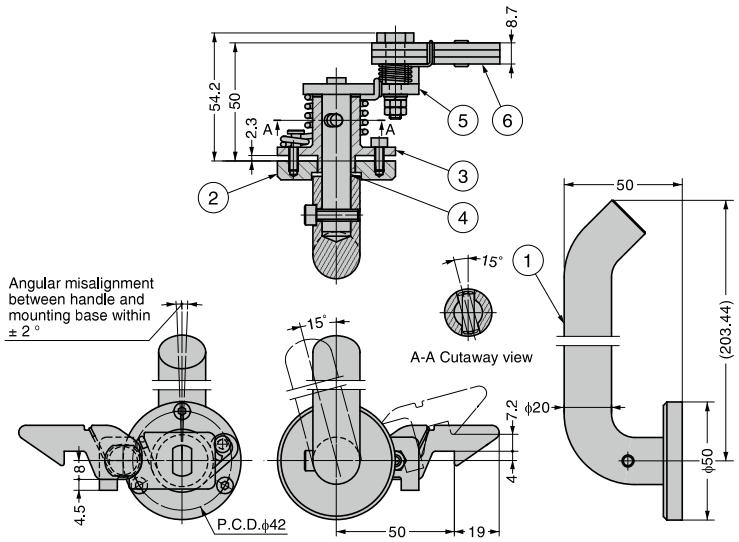
[Key] Sold Separately

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

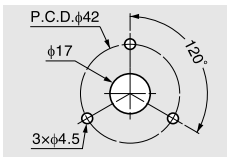
LATCH HANDLE LH-203



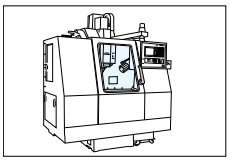
- Handle with latch.
- Suitable for sliding covers.



[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)
G	3D	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.

Video Link



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.

Video Link

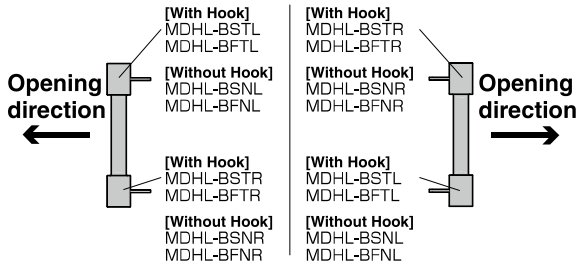
[Bracket]


MDHL-BSTL


MDHL-BFTL

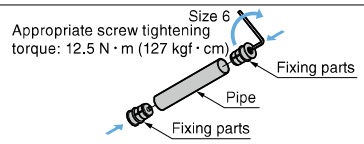

DESIGN DOOR HANDLE MDH 1

[Installation Direction of Bracket]



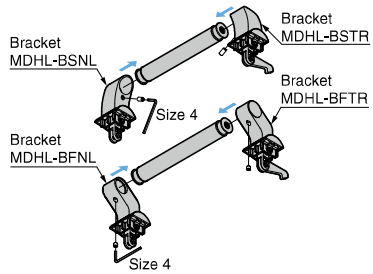
[How to Install]

1.



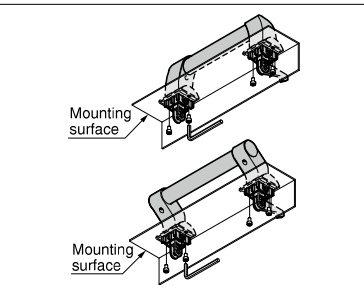
Insert the fixing parts (attached to the bracket) into both ends of the pipe until their flanges contact the pipe ends, and then tighten the screws with a hex key size 6 (not included).

2.



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).

3.

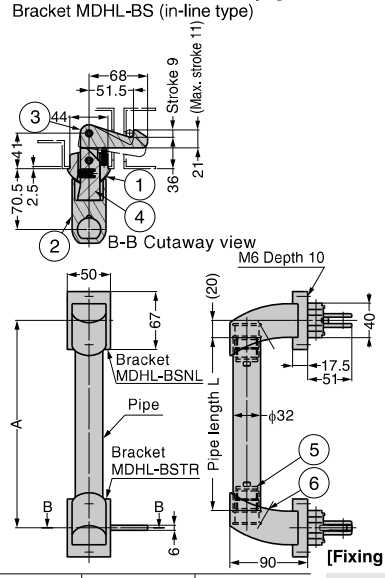


Fix on the mounting surface with M6 screws (not included).

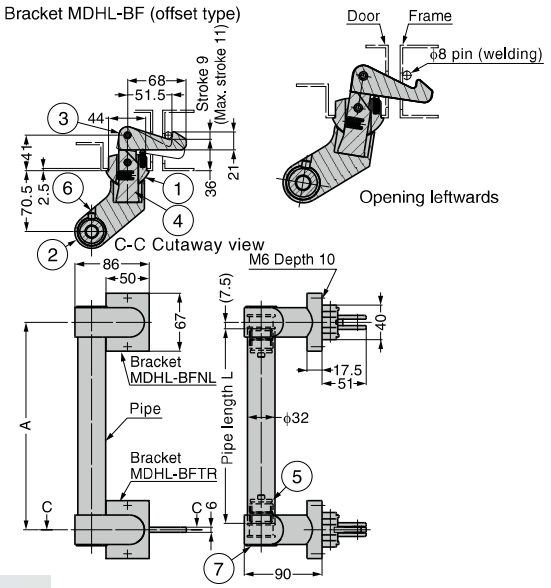
Refer to 1 : P.630

[Installation of Bracket and Pipe]

Bracket MDHL-BS (in-line type)



Bracket MDHL-BF (offset type)



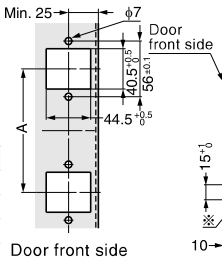
[Bracket]

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

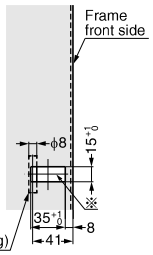
[Fixing Parts⑤]



[Cut Out Dimensions for Door]



[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.

[Bracket]

RoHS	CAD	Item Code	Item Name	Hook	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	140-025-544	MDHL-BSTL	w/	1004	1	1
G	3D	140-025-545	MDHL-BSNL	w/o	940	1	1
G	3D	140-025-546	MDHL-BSTR	w/	999	1	1
G	3D	140-025-547	MDHL-BSNR	w/o	935	1	1
G	3D	140-025-548	MDHL-BFTL	w/	1091	1	1
G	3D	140-025-549	MDHL-BFNL	w/o	1026	1	1
G	3D	140-025-550	MDHL-BFTR	w/	1095	1	1
G	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)
G	3D	140-025-552	MDHL-SPS240	MDHL-BS	Stainless Steel (SUS304)	Satin	200	240	2	490	50	285	1	10
G	3D	140-025-553	MDHL-SPS340				300	340				430	1	10
G	3D	140-025-554	MDHL-SPS440				400	440				566	1	10
G	3D	140-025-555	MDHL-SPS540				500	540				712	1	10
G	3D	140-025-556	MDHL-SPS640				600	640				845	1	10
G	3D	140-025-557	MDHL-SPS740				700	740				997	1	10
G	3D	140-025-558	※MDHL-SPC240		Carbon Fibre Reinforced Polymer (CFRP)	Paint/ Clear	200	240	2.5			–	25	–
G	3D	140-025-559	MDHL-SPC340				300	340				107	25	–
G	3D	140-025-560	MDHL-SPC440				400	440				142	25	–
G	3D	140-025-561	※MDHL-SPC540				500	540				–	25	–
G	3D	140-025-562	※MDHL-SPC640				600	640				–	13	–
G	3D	140-025-563	※MDHL-SPC740				700	740				–	13	–
G	3D	140-025-564	MDHL-FPS240	MDHL-BF	Stainless Steel (SUS304)	Satin	225	240	2			318	1	10
G	3D	140-025-565	MDHL-FPS340				325	340				465	1	10
G	3D	140-025-566	MDHL-FPS440				425	440				603	1	10
G	3D	140-025-567	MDHL-FPS540				525	540				749	1	10
G	3D	140-025-568	MDHL-FPS640				625	640				883	1	10
G	3D	140-025-569	MDHL-FPS740				725	740				1032	1	10
G	3D	140-025-570	※MDHL-FPC240		Carbon Fibre Reinforced Polymer (CFRP)	Paint/ Clear	225	240	2.5			–	25	–
G	3D	140-025-571	※MDHL-FPC340				325	340				–	25	–
G	3D	140-025-572	※MDHL-FPC440				425	440				–	25	–
G	3D	140-025-573	※MDHL-FPC540				525	540				–	25	–
G	3D	140-025-574	※MDHL-FPC640				625	640				–	13	–
G	3D	140-025-575	※MDHL-FPC740				725	740				–	13	–

※Made to order.

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