



TAKACHI ELECTRONICS ENCLOSURE CO., LTD.

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January 30, 2023

Updated on June 30, 2023

NOTICE

Material, Color, and Color Code Change

Affected series and changes:

- **Material Change :** MY series
Holder : PC + ABS → ABS
Grip + Blind Cap : PP + Elastomer → Elastomer
- **Color Change :** MS, MO, MSN, MON, MSY, MOY, MSR, MOR, MN, MY, MSM series
- **Color Code Change :** MS, MO, MSN, MON, MSY, MOY, MSR, MOR series

Click below illustrations to check **Current (Old)** and **New** colors on your browser.

Current (Old) Color Code : [G](#)

New Color Code : [GS](#)

**MS • MO
series**



**MN • MO
series**

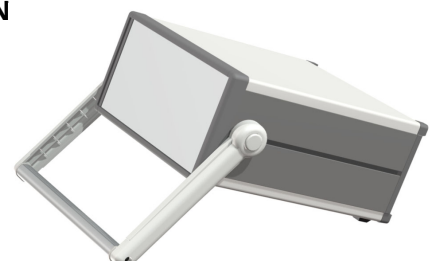


**MSN • MON
series**

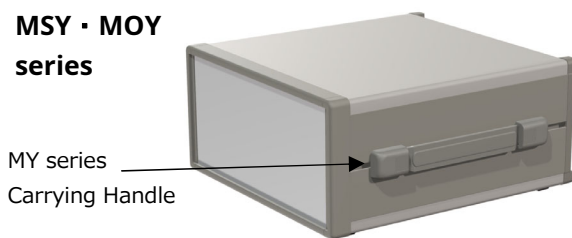


MN series
Tip-Up Handle

**MSN • MON
series**



**MSY • MOY
series**

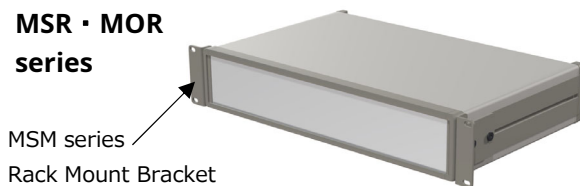


MY series
Carrying Handle

**MSY • MOY
series**



**MSR • MOR
series**



MSM series
Rack Mount Bracket

**MSR • MOR
series**



- **Functionality:** No changes to functionality, size / dimensions, or finish.
- **Purpose:** To ensure consistent quality throughout via streamlined supply chain and materials.
- **Period:** 2023 July ➡ [2023 September \(Updated on June 30, 2023\)](#)
- **No changes to pricing.**

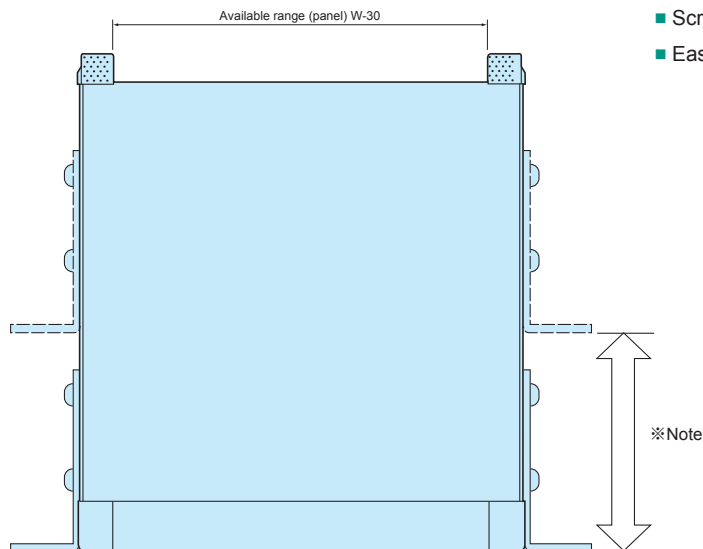
Thank you for your understanding.

For more information, kindly contact us at: sales@takachi-el.co.jp

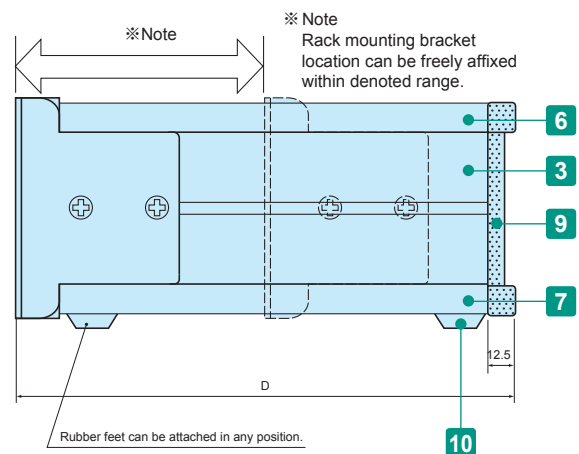
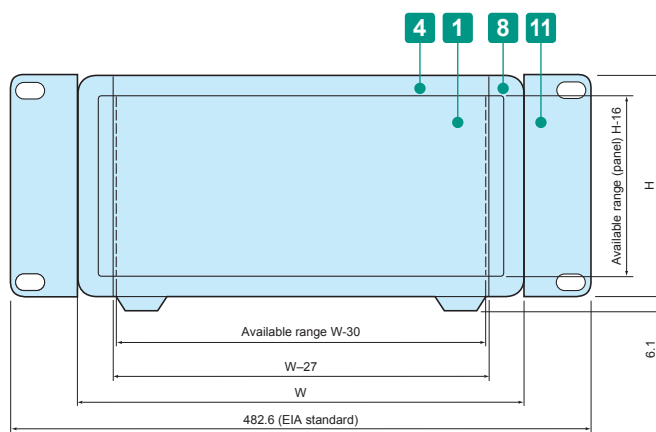


MSR dimensions

- 16 different sizes available.
- Screws are hidden out of view for a sophisticated and elegant look.
- Easy to punch or mill holes on both front and rear panels.



- Drawings below are reference examples only.
DXF/DWG/PDF drawings available on our website.



Components

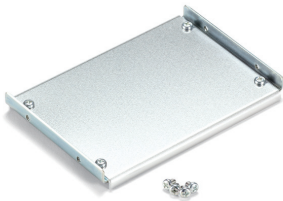
■ Refer to page 250 for more information on rack mounting bracket.

No.	Part name	Pcs	Material	Color / Finish
1	Front panel	1	Aluminium A1050P t=2.0	Silver • Black / Hairline brushed & Anodized
–	Rear panel	1	Aluminium A1050P t=2.0	Silver • Black / Anodized
3	Side frame	2	Extruded aluminium A6063S-T5	Gray • Black / Painted
4	Front frame	2	Extruded aluminium A6063S-T5	Gray • Black / Painted
–	Rear frame	2	Extruded aluminium A6063S-T5	Silver / Anodized
6	Top cover	1	Steel SPCC t=1.0	Light gray • Black / Painted
7	Bottom cover	1	Steel SPCC t=1.0	Light gray • Black / Painted
8	Corner block	2	Diecast aluminium ADC12	Gray • Black / Painted
9	Rear feet	2	ABS UL94V-0	Gray • Black
10	Rubber feet	4	Polyurethane	Black
11	Rack mounting bracket	2	Extruded aluminium A6063S-T5	Gray • Black painted

■ Note: Front / rear panels are covered with a protective film on one side. Remove before assembly.

Included screws and nuts
M4-6 countersunk • Trivalent chromate x 4 pcs
M4-8 Pan head • Trivalent chromate x 8 pcs
M4-10 Binding head • Black trivalent chromate x 4 pcs
M5-10 Flat head • Black trivalent chromate x 4 pcs
M5 Nut (Product no. MZ-5) x 4 pcs

Accessories (Optional parts)



Mounting plate MSC series
See page MSC • MSCL-1



L-bracket MSCL series
See page MSC • MSCL-1



Aluminium handle OH series
See page OH • KH-1



Cable hook CBF series
See page TL • CBF-1

Color Type

■ Please suffix color code at the end of the product number.

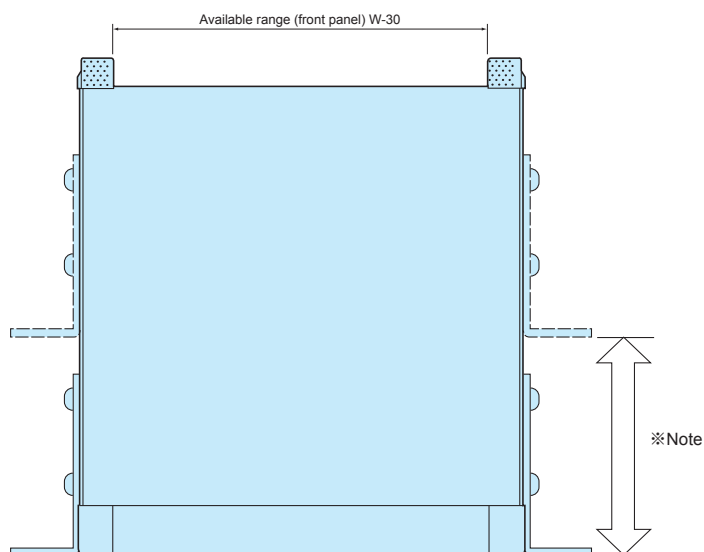
● [GS]		● [B]		● [BS]	
Panel	Silver	Panel	Black	Panel	Silver
Top • Bottom cover	Light gray	Top • Bottom cover	Black	Top • Bottom cover	Black
Side frame	Gray	Side frame	Black	Side frame	Black

Product no. / Dimensions

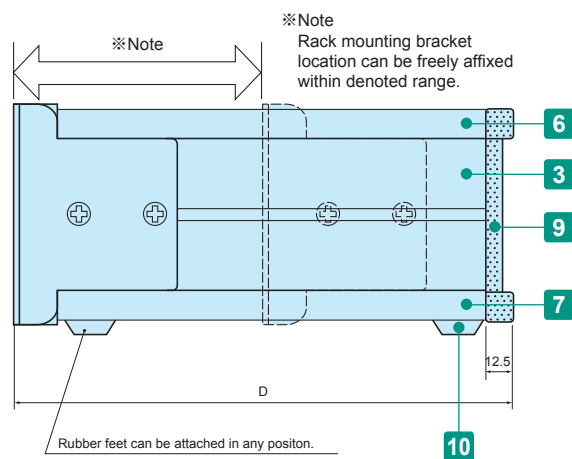
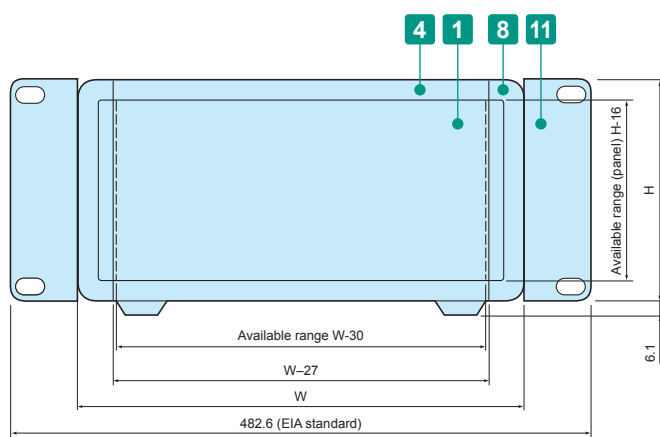
Product no.	H	W	D	Weight (kg)
MSR 88-43-23 □	88	430	230	3.1
MSR 88-43-28 □	88	430	280	3.5
MSR 88-43-35 □	88	430	350	4.2
MSR 88-43-45 □	88	430	450	5.1
MSR133-43-23 □	132.5	430	230	3.6
MSR133-43-28 □	132.5	430	280	4.1
MSR133-43-35 □	132.5	430	350	4.8
MSR133-43-45 □	132.5	430	450	5.8
MSR177-43-23 □	177	430	230	4.3
MSR177-43-28 □	177	430	280	4.9
MSR177-43-35 □	177	430	350	5.7
MSR177-43-45 □	177	430	450	6.9
MSR222-43-23 □	221.5	430	230	4.7
MSR222-43-28 □	221.5	430	280	5.3
MSR222-43-35 □	221.5	430	350	6.2
MSR222-43-45 □	221.5	430	450	7.5



- Available in 3 different colors and 16 different sizes.
- Lightweight system rack mount case.
- Screws are hidden out of view for a sophisticated and elegant look.



- Drawings below are reference examples only.
DXF/DWG/PDF drawings available on our website.



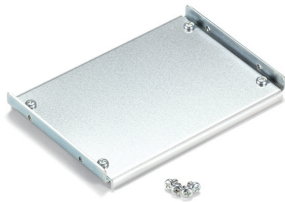
Components

No.	Part name	Pcs	Material	Color / Finish
1	Front panel	1	Aluminium A1050P t=2.0	Silver • Black / Hairline brushed & Anodized
2	Rear panel	1	Aluminium A1050P t=2.0	Silver • Black / Anodized
3	Side frame	2	Extruded aluminium A6063S-T5	Gray • Black / Painted
4	Front frame	2	Extruded aluminium A6063S-T5	Gray • Black / Painted
5	Rear frame	2	Extruded aluminium A6063S-T5	Silver / Anodized
6	Top cover	1	Aluminium A1100P t=1.0	Light gray • Black / Painted
7	Bottom cover	1	Aluminium A1100P t=1.0	Light gray • Black / Painted
8	Corner block	2	Diecast aluminium ADC12	Gray • Black / Painted
9	Rear feet	2	ABS UL94V-0	Gray • Black
10	Rubber feet	4	Polyurethane	Black
11	Rack mount bracket	2	Extruded aluminium A6063S-T5	Gray • Black / Painted

■ Note: Front / rear panels and top / bottom covers are covered with a protective film on one side. Remove before assembly.

Included screws and nuts
M4-6 countersunk • Trivalent chromate x 4 pcs
M4-8 Pan head • Trivalent chromate x 8 pcs
M4-10 Binding head • Black trivalent chromate x 4 pcs
M5-10 Flat head • Black trivalent chromate x 4 pcs
M5 nut (Product no. MZ-5) x 4 pcs

Accessories (Optional parts)



Mounting plate MSC series
See page MSC • MSCL-1



L-bracket MSCL series
See page MSC • MSCL-1



Aluminium handle OH series
See page OH • KH-1



Cable hook CBF series
See page TL • CBF-1

Color Type



Panel	Silver
Top • Bottom cover	Light Gray
Side frame	Gray



Panel	Black
Top • Bottom cover	Black
Side frame	Black



Panel	Silver
Top • Bottom cover	Black
Side frame	Black

■ Please suffix color code at the end of the product number.

Product no. / Dimensions

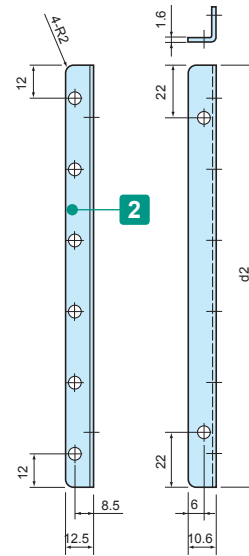
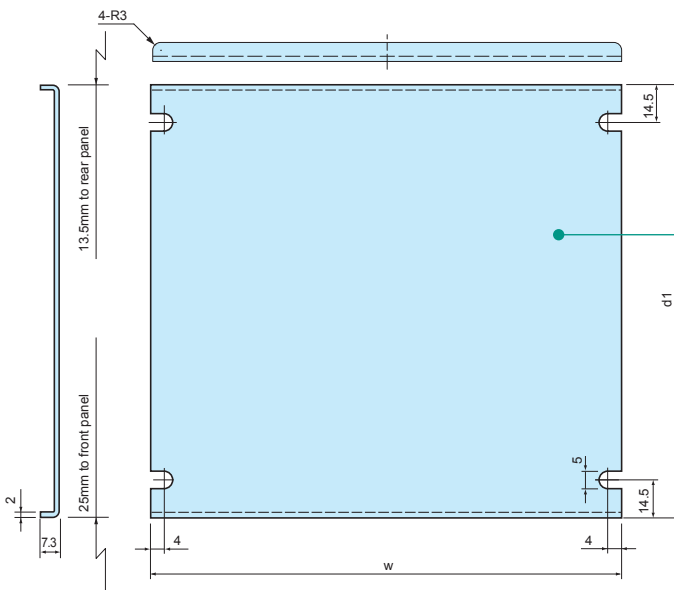
Product no.	H	W	D	Weight (kg)
MOR 88-43-23 □	88	430	230	2.2
MOR 88-43-28 □	88	430	280	2.4
MOR 88-43-35 □	88	430	350	2.8
MOR 88-43-45 □	88	430	450	3.4
MOR133-43-23 □	132.5	430	230	2.7
MOR133-43-28 □	132.5	430	280	3.0
MOR133-43-35 □	132.5	430	350	3.4
MOR133-43-45 □	132.5	430	450	4.0
MOR177-43-23 □	177	430	230	3.4
MOR177-43-28 □	177	430	280	3.7
MOR177-43-35 □	177	430	350	4.3
MOR177-43-45 □	177	430	450	5.0
MOR222-43-23 □	221.5	430	230	3.8
MOR222-43-28 □	221.5	430	280	4.1
MOR222-43-35 □	221.5	430	350	4.7
MOR222-43-45 □	221.5	430	450	5.6

MSC series

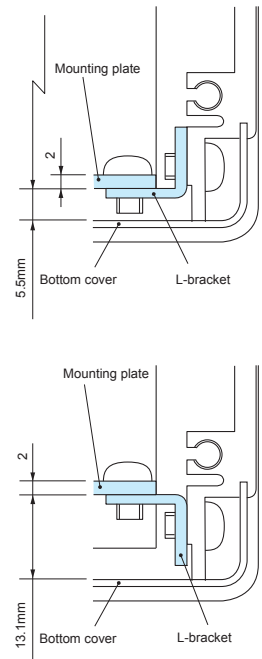
MOUNTING PLATE for MS

MSC dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Mounting example



Components

No.	Part name	Pcs	Material	Color / Finish
1	Mounting plate	1	Aluminium A1050P t=2.0	Unfinished
2	L-bracket	2	Steel SPCC	Trivalent chromate

Included screws: M4-6 pan head, trivalent chromate x8

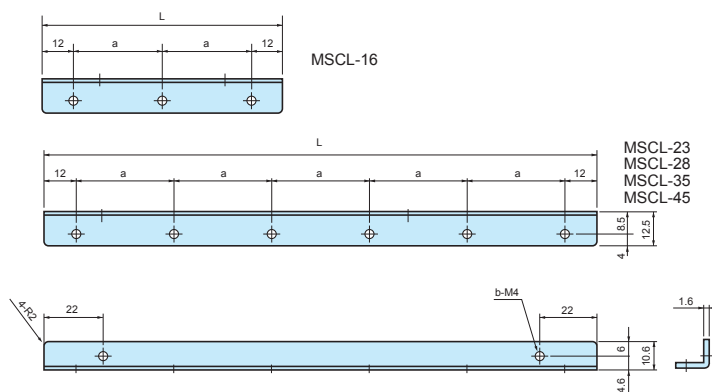
Product no. / Details

Product no.	w	d1	d2	Enclosure W×D	Weight (g)
MSC16-16	130	96.5	91.5	160 × 160	120
MSC16-23	130	166.5	161.5	160 × 230	210
MSC16-28	130	216.5	211.5	160 × 280	270
MSC21-16	180	96.5	91.5	210 × 160	150
MSC21-23	180	166.5	161.5	210 × 230	250
MSC21-28	180	216.5	211.5	210 × 280	330
MSC21-35	180	286.5	281.5	210 × 350	430
MSC26-23	230	166.5	161.5	260 × 230	300
MSC26-28	230	216.5	211.5	260 × 280	390
MSC26-35	230	286.5	281.5	260 × 350	510
MSC32-23	290	166.5	161.5	320 × 230	360

Product no.	w	d1	d2	Enclosure W×D	Weight (g)
MSC32-28	290	216.5	211.5	320 × 280	460
MSC32-35	290	286.5	281.5	320 × 350	600
MSC32-45	290	386.5	381.5	320 × 450	810
MSC37-23	340	166.5	161.5	370 × 230	410
MSC37-28	340	216.5	211.5	370 × 280	520
MSC37-35	340	286.5	281.5	370 × 350	680
MSC37-45	340	386.5	381.5	370 × 450	910
MSC43-23	400	166.5	161.5	430 × 230	460
MSC43-28	400	216.5	211.5	430 × 280	590
MSC43-35	400	286.5	281.5	430 × 350	770
MSC43-45	400	386.5	381.5	430 × 450	1,040

MSCL series

L-BRACKET for MS



- Use with your original mounting plate or PCB.
- 1 pair of L-bracket are included with each MSC mounting plate.

Components

Part name	Material	Color / Finish
L-bracket	Steel SPCC	Trivalent chromate

Product no. / Details

Product no.	L	a	b	Sales unit
MSCL-16	91.5	33.75	5	1 set (2 pcs)
MSCL-23	161.5	27.5	8	1 set (2 pcs)
MSCL-28	211.5	37.5	8	1 set (2 pcs)
MSCL-35	281.5	51.5	8	1 set (2 pcs)
MSCL-45	381.5	71.5	8	1 set (2 pcs)

MSM SERIES

RACK MOUNT BRACKET

Components

Material	Color / Finish
Extruded aluminium A6063S-T5	Gray • Black / Painted

Included screws : M5-10 Flat head x 4 pcs / Black trivalent chromate + Nut x 4 pcs

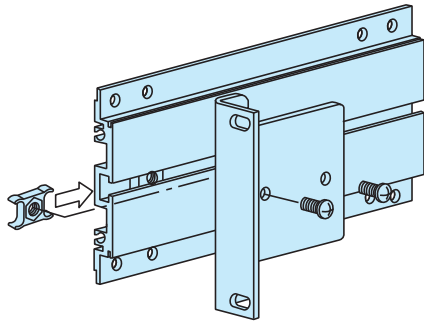
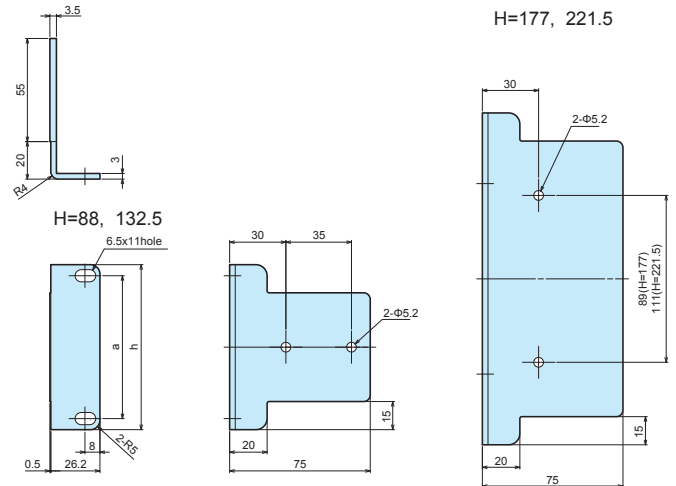
Color Type

Color code	Material	Color / Finish
G	Extruded aluminium A6063S-T5	Gray / Painted
B	Extruded aluminium A6063S-T5	Black / Painted

Product no. / Dimensions

Product no.	h (Enclosure H)	a	Pack of
MSM- 88□	88	76.2	2
MSM-133□	132.5	57.1	2
MSM-177□	177	101.6	2
MSM-222□	221.5	146	2

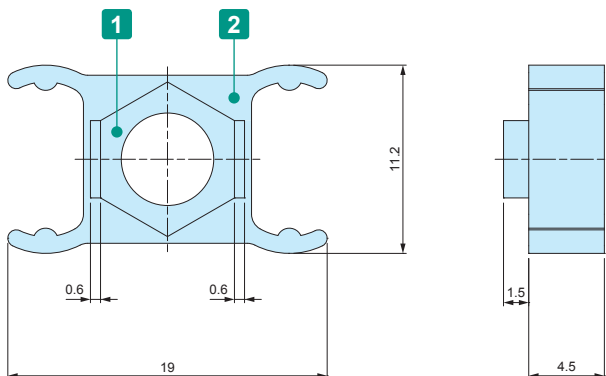
■ Please suffix color code at the end of the product number.



MZ SERIES

SIDE FRAME NUT

■ Side frame nut for MS • MSN • MSY • MSR • MO • MON • MOY • MOR series.



Components

No.	Part name	Material	Color / Finish
1	Nut	Brass • Steel	Nickel plated
2	Holder	Polyethylene	Black

Product no. / Feature

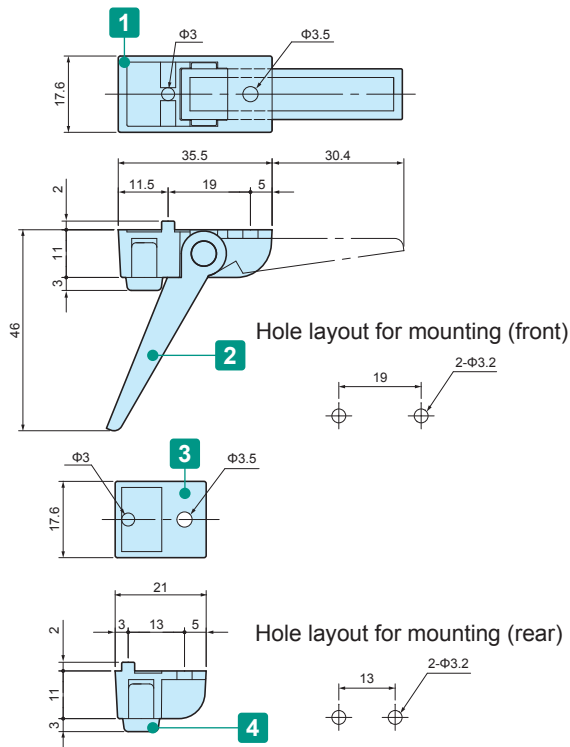
Product no.	Screw size	Nut material	Pack of
MZ-4	M4	Brass	10
MZ-5	M5	Steel	10

TL series

TILT LEG

TL dimensions

■ DXF/DWG/PDF drawings available on our website.



Components

* Maximum load = 7 kg

No.	Part name	Pcs	Material	Color / Finish
1	Front feet	2	ABS UL94HB	Black • Light gray • Dark gray
2	Leg	2	ABS UL94HB	Black • Light gray • Dark gray
3	Rear feet	2	ABS UL94HB	Black • Light gray • Dark gray
4	Rubber feet	4	EPDM	Gray • Black
-	Screw	4	Steel	Black trivalent chromate

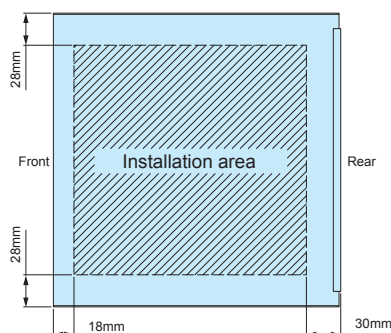
■ Included screws: M3-8 and M3 nut (with washer) set.

Product no. / Details

Product no.	Color (body)	Color (rubber feet)	Sales unit
● TL-45BB	Black	Black	1 set
○ TL-45SG	Light gray	Gray	1 set
● TL-45DG	Dark gray	Gray	1 set

■ EPDM (black) may have its color migrate onto the placement surface.

MS SERIES INSTALLATION AREA



CBF-1G

CABLE HOOK



- Used for wrapping and securing cords and wires.
- Can be used with a variety of different enclosure series and models.
- Requires a panel thickness of between 1.0 ~ 3.0mm.

Product no. / Details

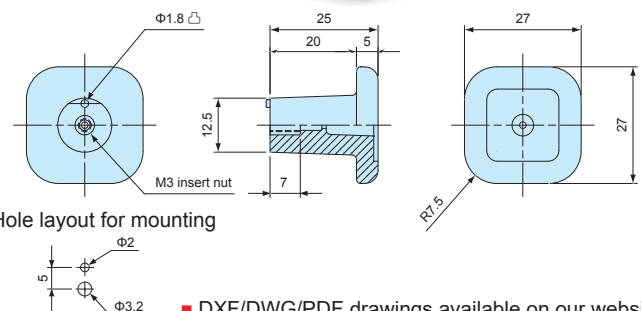
Product no.	Material	Color	Pack of
CBF-1G	ABS UL94HB	Gray	4

■ Included screws: M3-8 trivalent chromate (with washer) x 4 pcs



CBF dimensions

APPLICATION EXAMPLE



■ DXF/DWG/PDF drawings available on our website.