



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

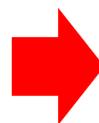
MSN · MON series



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.**

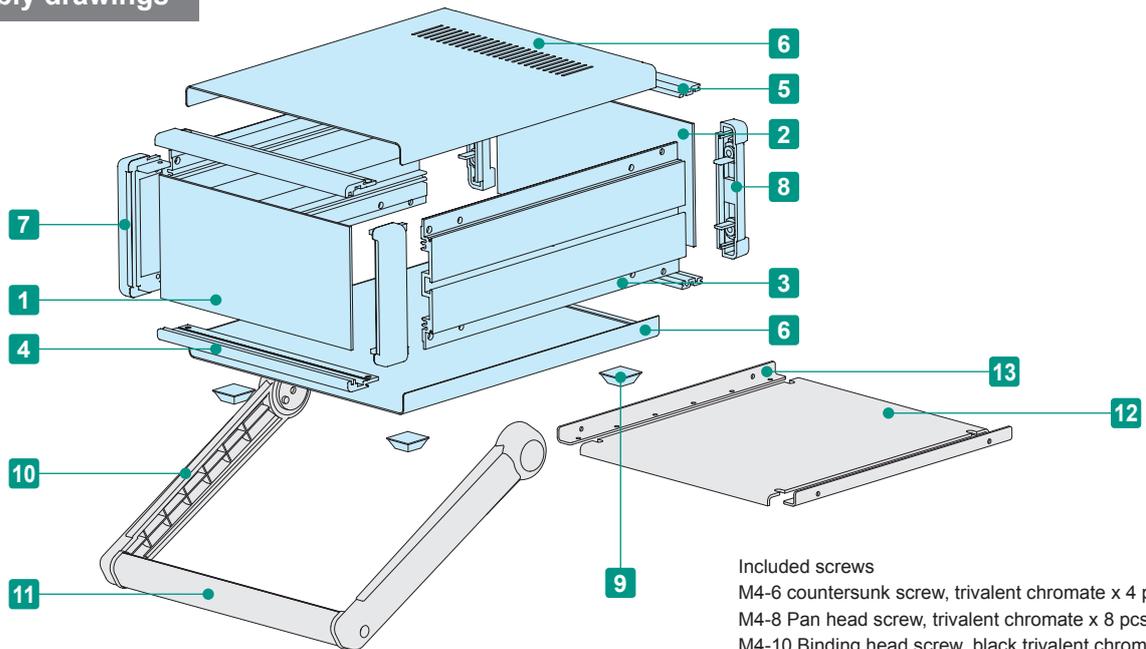
Thank you for your understanding.

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



- Available in 3 different colors and 176 different sizes.
- Stand handle can be shifted and locked at 30° intervals.
- Maximum load support of 25kg.

Assembly drawings



Included screws
 M4-6 countersunk screw, trivalent chromate x 4 pcs
 M4-8 Pan head screw, trivalent chromate x 8 pcs
 M4-10 Binding head screw, black trivalent chromate x 4 pcs

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 • Bottom cover	1 each	Steel SPCC t=1.0	Light gray • Black / Painted	
7	Corner block	2	Diecast aluminium ADC12	Gray • Black / Painted	
8	Rear feet	2	ABS UL94V-0	Gray • Black	
9	Rubber feet	4	Polyurethane	Black	
10	Stand handle	Bracket	2	ABS UL94HB	Light gray • Black
11		Grip	1	Extruded aluminium A6063S-T5	Silver • Black

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

Accessories (Optional parts)



12 Mounting plate MSC series
See page MSC • MSCL-1



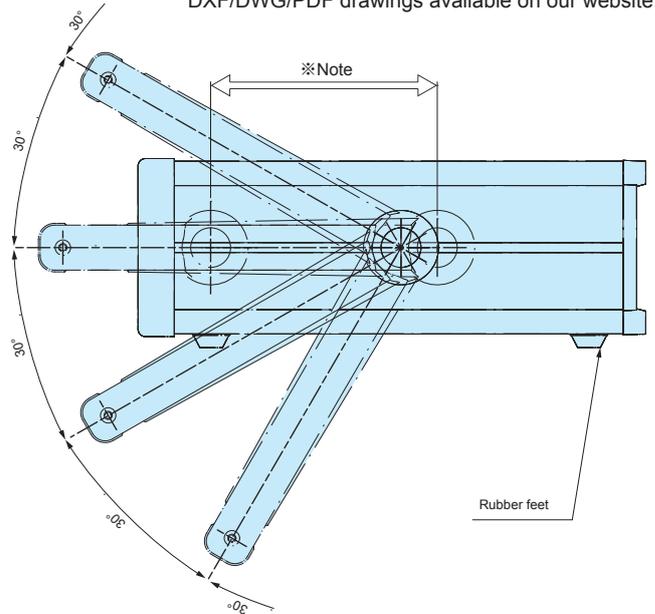
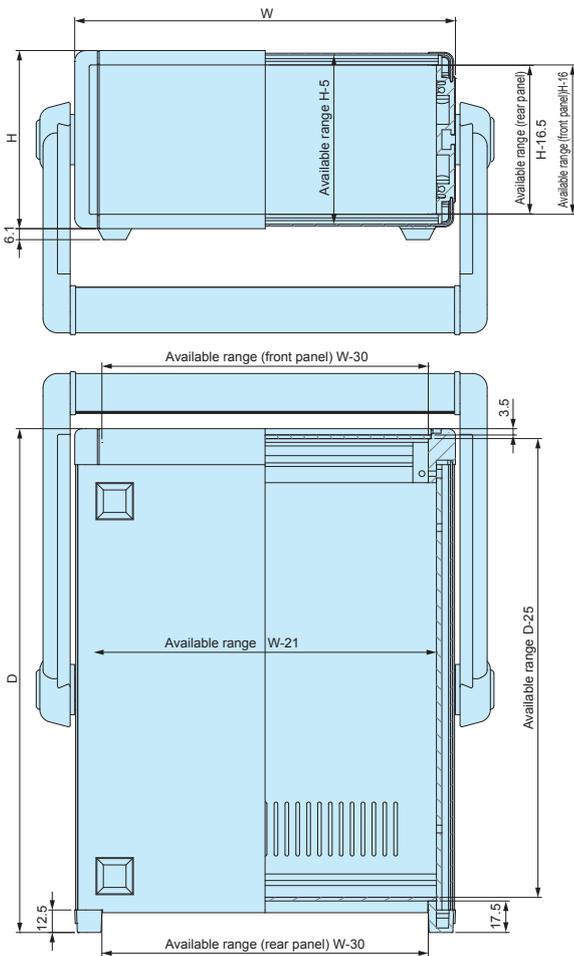
2 L-bracket MSCL series
See page MSC • MSCL-1



Cable hook CBF series
See page TL • CBF-1

MSN dimensions

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



※ Note
Stand handle location can be freely affixed within denoted range.

■ Top • Bottom cover of sizes 160x160, 160x230, 160x280, 210x160 do not have ventilation holes.

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)
MSN 66-16-16 □	66	160	160	1.2
MSN 66-16-23 □	66	160	230	1.5
MSN 66-16-28 □	66	160	280	1.8
MSN 66-21-16 □	66	210	160	1.4
MSN 66-21-23 □	66	210	230	1.8
MSN 66-21-28 □	66	210	280	2.1
MSN 66-21-35 □	66	210	350	2.5
MSN 66-26-23 □	66	260	230	2.1
MSN 66-26-28 □	66	260	280	2.4
MSN 66-26-35 □	66	260	350	2.9
MSN 66-32-23 □	66	320	230	2.4
MSN 66-32-28 □	66	320	280	2.8
MSN 66-32-35 □	66	320	350	3.4
MSN 66-32-45 □	66	320	450	4.1
MSN 66-37-23 □	66	370	230	2.6
MSN 66-37-28 □	66	370	280	3.1
MSN 66-37-35 □	66	370	350	3.7
MSN 66-37-45 □	66	370	450	4.4
MSN 66-43-23 □	66	430	230	3.0
MSN 66-43-28 □	66	430	280	3.5
MSN 66-43-35 □	66	430	350	4.2
MSN 66-43-45 □	66	430	450	5.2
MSN 88-16-16 □	88	160	160	1.3
MSN 88-16-23 □	88	160	230	1.6
MSN 88-16-28 □	88	160	280	1.9
MSN 88-21-16 □	88	210	160	1.5
MSN 88-21-23 □	88	210	230	1.9
MSN 88-21-28 □	88	210	280	2.3
MSN 88-21-35 □	88	210	350	2.7
MSN 88-26-23 □	88	260	230	2.3
MSN 88-26-28 □	88	260	280	2.6
MSN 88-26-35 □	88	260	350	3.1
MSN 88-32-23 □	88	320	230	2.6
MSN 88-32-28 □	88	320	280	3.0
MSN 88-32-35 □	88	320	350	3.6
MSN 88-32-45 □	88	320	450	4.4
MSN 88-37-23 □	88	370	230	2.9
MSN 88-37-28 □	88	370	280	3.3
MSN 88-37-35 □	88	370	350	4.0
MSN 88-37-45 □	88	370	450	4.7
MSN 88-43-23 □	88	430	230	3.2
MSN 88-43-28 □	88	430	280	3.7
MSN 88-43-35 □	88	430	350	4.4
MSN 88-43-45 □	88	430	450	5.5

Product no.	H	W	D	Weight (kg)
MSN 99-16-16 □	99	160	160	1.3
MSN 99-16-23 □	99	160	230	1.7
MSN 99-16-28 □	99	160	280	2.0
MSN 99-21-16 □	99	210	160	1.6
MSN 99-21-23 □	99	210	230	2.0
MSN 99-21-28 □	99	210	280	2.3
MSN 99-21-35 □	99	210	350	2.8
MSN 99-26-23 □	99	260	230	2.3
MSN 99-26-28 □	99	260	280	2.7
MSN 99-26-35 □	99	260	350	3.2
MSN 99-32-23 □	99	320	230	2.6
MSN 99-32-28 □	99	320	280	3.1
MSN 99-32-35 □	99	320	350	3.7
MSN 99-32-45 □	99	320	450	4.5
MSN 99-37-23 □	99	370	230	2.9
MSN 99-37-28 □	99	370	280	3.4
MSN 99-37-35 □	99	370	350	4.1
MSN 99-37-45 □	99	370	450	4.8
MSN 99-43-23 □	99	430	230	3.3
MSN 99-43-28 □	99	430	280	3.8
MSN 99-43-35 □	99	430	350	4.5
MSN 99-43-45 □	99	430	450	5.6
MSN133-16-16 □	133	160	160	1.5
MSN133-16-23 □	133	160	230	1.9
MSN133-16-28 □	133	160	280	2.2
MSN133-21-16 □	133	210	160	1.8
MSN133-21-23 □	133	210	230	2.3
MSN133-21-28 □	133	210	280	2.6
MSN133-21-35 □	133	210	350	3.1
MSN133-26-23 □	133	260	230	2.6
MSN133-26-28 □	133	260	280	3.0
MSN133-26-35 □	133	260	350	3.5
MSN133-32-23 □	133	320	230	2.9
MSN133-32-28 □	133	320	280	3.4
MSN133-32-35 □	133	320	350	4.0
MSN133-32-45 □	133	320	450	4.9
MSN133-37-23 □	133	370	230	3.3
MSN133-37-28 □	133	370	280	3.8
MSN133-37-35 □	133	370	350	4.4
MSN133-37-45 □	133	370	450	5.2
MSN133-43-23 □	133	430	230	3.7
MSN133-43-28 □	133	430	280	4.2
MSN133-43-35 □	133	430	350	4.9
MSN133-43-45 □	133	430	450	6.0

Product no. / Dimensions

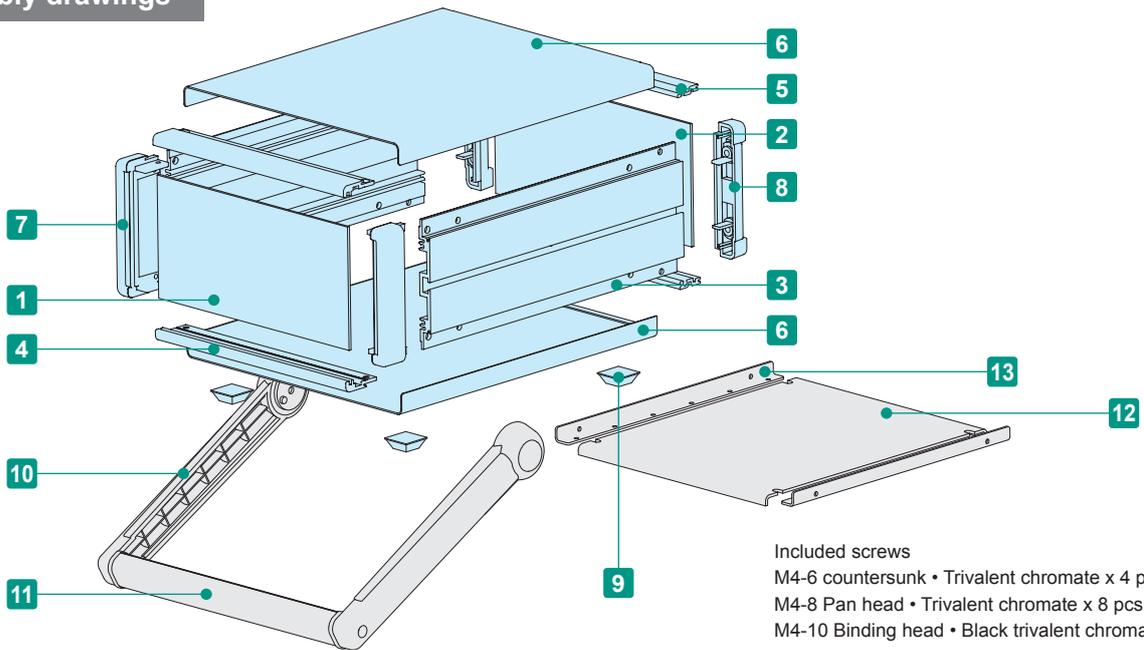
Product no.	H	W	D	Weight (kg)
MSN149-16-16 □	149	160	160	1.6
MSN149-16-23 □	149	160	230	2.0
MSN149-16-28 □	149	160	280	2.4
MSN149-21-16 □	149	210	160	1.8
MSN149-21-23 □	149	210	230	2.4
MSN149-21-28 □	149	210	280	2.7
MSN149-21-35 □	149	210	350	3.2
MSN149-26-23 □	149	260	230	2.7
MSN149-26-28 □	149	260	280	3.1
MSN149-26-35 □	149	260	350	3.6
MSN149-32-23 □	149	320	230	3.1
MSN149-32-28 □	149	320	280	3.5
MSN149-32-35 □	149	320	350	4.2
MSN149-32-45 □	149	320	450	5.1
MSN149-37-23 □	149	370	230	3.4
MSN149-37-28 □	149	370	280	3.9
MSN149-37-35 □	149	370	350	4.6
MSN149-37-45 □	149	370	450	5.4
MSN149-43-23 □	149	430	230	3.8
MSN149-43-28 □	149	430	280	4.4
MSN149-43-35 □	149	430	350	5.1
MSN149-43-45 □	149	430	450	6.3
MSN177-16-16 □	177	160	160	1.9
MSN177-16-23 □	177	160	230	2.4
MSN177-16-28 □	177	160	280	2.8
MSN177-21-16 □	177	210	160	2.2
MSN177-21-23 □	177	210	230	2.8
MSN177-21-28 □	177	210	280	3.2
MSN177-21-35 □	177	210	350	3.8
MSN177-26-23 □	177	260	230	3.2
MSN177-26-28 □	177	260	280	3.6
MSN177-26-35 □	177	260	350	4.2
MSN177-32-23 □	177	320	230	3.5
MSN177-32-28 □	177	320	280	4.0
MSN177-32-35 □	177	320	350	4.8
MSN177-32-45 □	177	320	450	5.8
MSN177-37-23 □	177	370	230	3.9
MSN177-37-28 □	177	370	280	4.4
MSN177-37-35 □	177	370	350	5.2
MSN177-37-45 □	177	370	450	6.1
MSN177-43-23 □	177	430	230	4.3
MSN177-43-28 □	177	430	280	4.9
MSN177-43-35 □	177	430	350	5.7
MSN177-43-45 □	177	430	450	7.0

Product no.	H	W	D	Weight (kg)
MSN199-16-16 □	199	160	160	2.0
MSN199-16-23 □	199	160	230	2.6
MSN199-16-28 □	199	160	280	2.9
MSN199-21-16 □	199	210	160	2.3
MSN199-21-23 □	199	210	230	2.9
MSN199-21-28 □	199	210	280	3.3
MSN199-21-35 □	199	210	350	3.9
MSN199-26-23 □	199	260	230	3.3
MSN199-26-28 □	199	260	280	3.7
MSN199-26-35 □	199	260	350	4.4
MSN199-32-23 □	199	320	230	3.7
MSN199-32-28 □	199	320	280	4.2
MSN199-32-35 □	199	320	350	4.9
MSN199-32-45 □	199	320	450	5.9
MSN199-37-23 □	199	370	230	4.0
MSN199-37-28 □	199	370	280	4.6
MSN199-37-35 □	199	370	350	5.4
MSN199-37-45 □	199	370	450	6.3
MSN199-43-23 □	199	430	230	4.5
MSN199-43-28 □	199	430	280	5.1
MSN199-43-35 □	199	430	350	5.9
MSN199-43-45 □	199	430	450	7.2
MSN222-16-16 □	222	160	160	2.2
MSN222-16-23 □	222	160	230	2.7
MSN222-16-28 □	222	160	280	3.0
MSN222-21-16 □	222	210	160	2.5
MSN222-21-23 □	222	210	230	3.0
MSN222-21-28 □	222	210	280	3.4
MSN222-21-35 □	222	210	350	4.1
MSN222-26-23 □	222	260	230	3.4
MSN222-26-28 □	222	260	280	3.8
MSN222-26-35 □	222	260	350	4.5
MSN222-32-23 □	222	320	230	3.8
MSN222-32-28 □	222	320	280	4.3
MSN222-32-35 □	222	320	350	5.1
MSN222-32-45 □	222	320	450	6.2
MSN222-37-23 □	222	370	230	4.2
MSN222-37-28 □	222	370	280	4.8
MSN222-37-35 □	222	370	350	5.6
MSN222-37-45 □	222	370	450	6.6
MSN222-43-23 □	222	430	230	4.7
MSN222-43-28 □	222	430	280	5.2
MSN222-43-35 □	222	430	350	6.1
MSN222-43-45 □	222	430	450	7.5



- Available in 3 different colors and 176 different sizes.
- Stand handle can be shifted and locked at 30° intervals. Maximum load support of 25kg.
- Lightweight system case with stand handle. Suitable for use as measuring instruments, etc.

Assembly drawings



Included screws
 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

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 • Bottom cover	1 each	Aluminium A1100P t=1.0	Light gray • Black / Painted	
7	Corner block	2	Diecast aluminium ADC12	Gray • Black / Painted	
8	Rear feet	2	ABS UL94V-0	Gray • Black	
9	Rubber feet	4	Polyurethane	Black	
10	Stand handle	Bracket	2	ABS UL94HB	Light gray • Black
11		Grip	1	Extruded aluminium A6063S-T5	Silver • Black

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

Accessories (Optional parts)



12 Mounting plate MSC series
See page MSC • MSCL-1



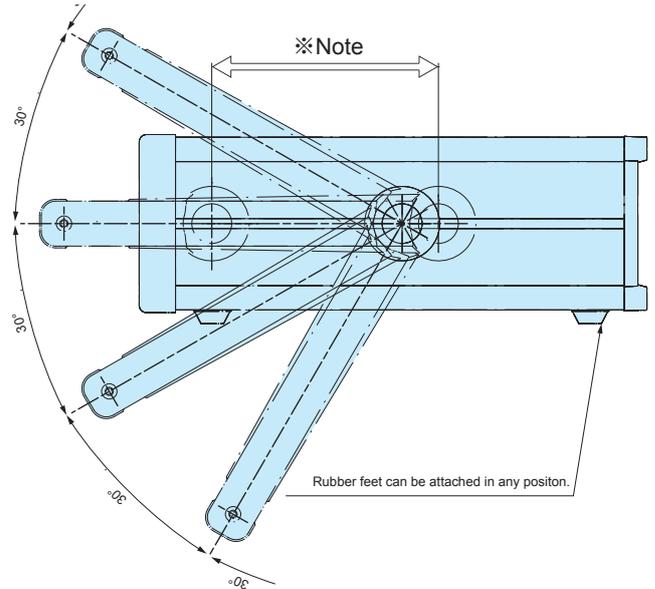
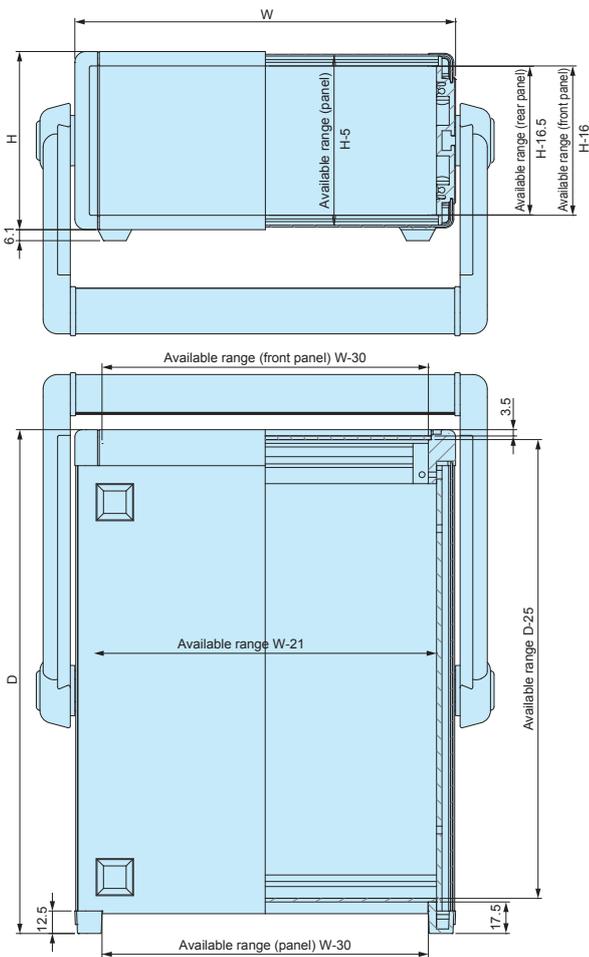
13 L-bracket MSCL series
See page MSC • MSCL-1



Cable hook CBF series
See page TL • CBF-1

MON dimensions

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



※Note
Stand handle location can be freely affixed within denoted range.

Color Type

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



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

Product no. / Dimensions

Product no.	H	W	D	Weight (kg)
MON 66-16-16□	66	160	160	0.9
MON 66-16-23□	66	160	230	1.1
MON 66-16-28□	66	160	280	1.3
MON 66-21-16□	66	210	160	1.1
MON 66-21-23□	66	210	230	1.3
MON 66-21-28□	66	210	280	1.5
MON 66-21-35□	66	210	350	1.7
MON 66-26-23□	66	260	230	1.5
MON 66-26-28□	66	260	280	1.7
MON 66-26-35□	66	260	350	2.0
MON 66-32-23□	66	320	230	1.7
MON 66-32-28□	66	320	280	1.9
MON 66-32-35□	66	320	350	2.2
MON 66-32-45□	66	320	450	2.6
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MON 66-37-35□	66	370	350	2.4
MON 66-37-45□	66	370	450	2.8
MON 66-43-23□	66	430	230	2.1
MON 66-43-28□	66	430	280	2.4
MON 66-43-35□	66	430	350	2.7
MON 66-43-45□	66	430	450	3.2
MON 88-16-16□	88	160	160	1.0
MON 88-16-23□	88	160	230	1.3
MON 88-16-28□	88	160	280	1.5
MON 88-21-16□	88	210	160	1.2
MON 88-21-23□	88	210	230	1.5
MON 88-21-28□	88	210	280	1.7
MON 88-21-35□	88	210	350	1.9
MON 88-26-23□	88	260	230	1.7
MON 88-26-28□	88	260	280	1.9
MON 88-26-35□	88	260	350	2.2
MON 88-32-23□	88	320	230	1.9
MON 88-32-28□	88	320	280	2.1
MON 88-32-35□	88	320	350	2.5
MON 88-32-45□	88	320	450	2.9
MON 88-37-23□	88	370	230	2.1
MON 88-37-28□	88	370	280	2.3
MON 88-37-35□	88	370	350	2.7
MON 88-37-45□	88	370	450	3.1
MON 88-43-23□	88	430	230	2.3
MON 88-43-28□	88	430	280	2.6
MON 88-43-35□	88	430	350	3.0
MON 88-43-45□	88	430	450	3.5

Product no.	H	W	D	Weight (kg)
MON 99-16-16□	99	160	160	1.1
MON 99-16-23□	99	160	230	1.3
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MON 99-21-28□	99	210	280	1.7
MON 99-21-35□	99	210	350	2.0
MON 99-26-23□	99	260	230	1.7
MON 99-26-28□	99	260	280	2.0
MON 99-26-35□	99	260	350	2.3
MON 99-32-23□	99	320	230	2.0
MON 99-32-28□	99	320	280	2.2
MON 99-32-35□	99	320	350	2.6
MON 99-32-45□	99	320	450	3.0
MON 99-37-23□	99	370	230	2.1
MON 99-37-28□	99	370	280	2.4
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MON 99-37-45□	99	370	450	3.2
MON 99-43-23□	99	430	230	2.4
MON 99-43-28□	99	430	280	2.7
MON 99-43-35□	99	430	350	3.1
MON 99-43-45□	99	430	450	3.7
MON133-16-16□	132.5	160	160	1.3
MON133-16-23□	132.5	160	230	1.6
MON133-16-28□	132.5	160	280	1.8
MON133-21-16□	132.5	210	160	1.5
MON133-21-23□	132.5	210	230	1.8
MON133-21-28□	132.5	210	280	2.0
MON133-21-35□	132.5	210	350	2.3
MON133-26-23□	132.5	260	230	2.0
MON133-26-28□	132.5	260	280	2.3
MON133-26-35□	132.5	260	350	2.6
MON133-32-23□	132.5	320	230	2.3
MON133-32-28□	132.5	320	280	2.5
MON133-32-35□	132.5	320	350	2.9
MON133-32-45□	132.5	320	450	3.4
MON133-37-23□	132.5	370	230	2.5
MON133-37-28□	132.5	370	280	2.8
MON133-37-35□	132.5	370	350	3.2
MON133-37-45□	132.5	370	450	3.6
MON133-43-23□	132.5	430	230	2.7
MON133-43-28□	132.5	430	280	3.0
MON133-43-35□	132.5	430	350	3.5
MON133-43-45□	132.5	430	450	4.1

Product no. / Dimensions

Product no.	H	W	D	Weight (kg)
MON149-16-16□	149	160	160	1.3
MON149-16-23□	149	160	230	1.7
MON149-16-28□	149	160	280	1.9
MON149-21-16□	149	210	160	1.5
MON149-21-23□	149	210	230	1.9
MON149-21-28□	149	210	280	2.1
MON149-21-35□	149	210	350	2.4
MON149-26-23□	149	260	230	2.1
MON149-26-28□	149	260	280	2.4
MON149-26-35□	149	260	350	2.7
MON149-32-23□	149	320	230	2.4
MON149-32-28□	149	320	280	2.7
MON149-32-35□	149	320	350	3.1
MON149-32-45□	149	320	450	3.6
MON149-37-23□	149	370	230	2.6
MON149-37-28□	149	370	280	2.9
MON149-37-35□	149	370	350	3.3
MON149-37-45□	149	370	450	3.9
MON149-43-23□	149	430	230	2.9
MON149-43-28□	149	430	280	3.2
MON149-43-35□	149	430	350	3.6
MON149-43-45□	149	430	450	4.3
MON177-16-16□	177	160	160	1.6
MON177-16-23□	177	160	230	2.1
MON177-16-28□	177	160	280	2.3
MON177-21-16□	177	210	160	1.8
MON177-21-23□	177	210	230	2.3
MON177-21-28□	177	210	280	2.6
MON177-21-35□	177	210	350	3.0
MON177-26-23□	177	260	230	2.6
MON177-26-28□	177	260	280	2.9
MON177-26-35□	177	260	350	3.3
MON177-32-23□	177	320	230	2.8
MON177-32-28□	177	320	280	3.2
MON177-32-35□	177	320	350	3.7
MON177-32-45□	177	320	450	4.3
MON177-37-23□	177	370	230	3.1
MON177-37-28□	177	370	280	3.4
MON177-37-35□	177	370	350	3.9
MON177-37-45□	177	370	450	4.6
MON177-43-23□	177	430	230	3.4
MON177-43-28□	177	430	280	3.7
MON177-43-35□	177	430	350	4.3
MON177-43-45□	177	430	450	5.0

Product no.	H	W	D	Weight (kg)
MON199-16-16□	199	160	160	1.8
MON199-16-23□	199	160	230	2.2
MON199-16-28□	199	160	280	2.5
MON199-21-16□	199	210	160	2.0
MON199-21-23□	199	210	230	2.4
MON199-21-28□	199	210	280	2.7
MON199-21-35□	199	210	350	3.1
MON199-26-23□	199	260	230	2.7
MON199-26-28□	199	260	280	3.0
MON199-26-35□	199	260	350	3.4
MON199-32-23□	199	320	230	3.0
MON199-32-28□	199	320	280	3.3
MON199-32-35□	199	320	350	3.8
MON199-32-45□	199	320	450	4.5
MON199-37-23□	199	370	230	3.2
MON199-37-28□	199	370	280	3.6
MON199-37-35□	199	370	350	4.1
MON199-37-45□	199	370	450	4.7
MON199-43-23□	199	430	230	3.5
MON199-43-28□	199	430	280	3.9
MON199-43-35□	199	430	350	4.4
MON199-43-45□	199	430	450	5.2
MON222-16-16□	221.5	160	160	1.9
MON222-16-23□	221.5	160	230	2.3
MON222-16-28□	221.5	160	280	2.6
MON222-21-16□	221.5	210	160	2.1
MON222-21-23□	221.5	210	230	2.6
MON222-21-28□	221.5	210	280	2.9
MON222-21-35□	221.5	210	350	3.3
MON222-26-23□	221.5	260	230	2.9
MON222-26-28□	221.5	260	280	3.1
MON222-26-35□	221.5	260	350	3.6
MON222-32-23□	221.5	320	230	3.1
MON222-32-28□	221.5	320	280	3.5
MON222-32-35□	221.5	320	350	4.0
MON222-32-45□	221.5	320	450	4.8
MON222-37-23□	221.5	370	230	3.4
MON222-37-28□	221.5	370	280	3.8
MON222-37-35□	221.5	370	350	4.3
MON222-37-45□	221.5	370	450	5.0
MON222-43-23□	221.5	430	230	3.7
MON222-43-28□	221.5	430	280	4.1
MON222-43-35□	221.5	430	350	4.7
MON222-43-45□	221.5	430	450	5.5



■ Aluminium enclosure with tilt leg for measuring instrument use. Available in 30 different sizes and 16 different color combinations.

Components

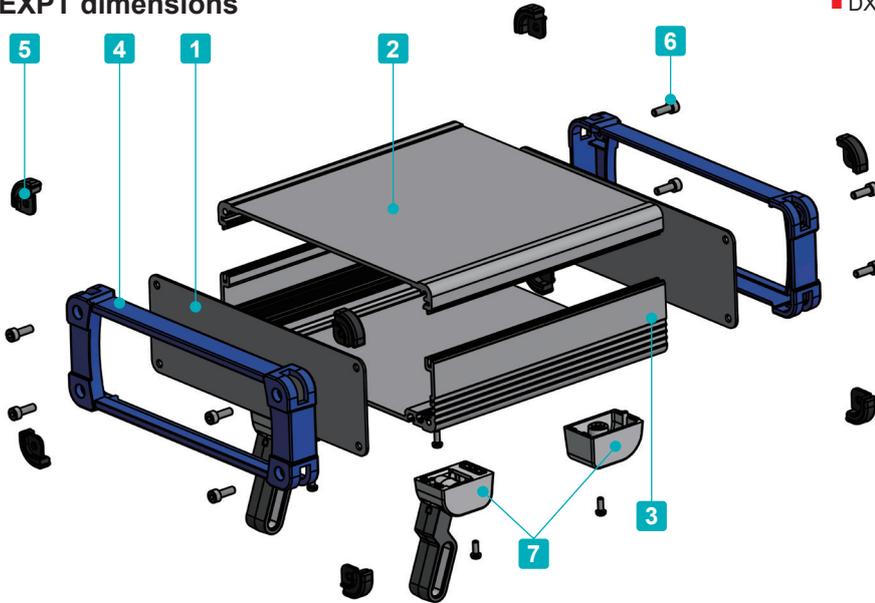
No.	Part name	Pcs	Material	Color / Finish
1	Panel	2	Aluminium A1100P	Silver / Anodized • Black / Painted
2	Top cover	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
3	Bottom cover	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
4	Exterior frame	2	PC+ABS Flame-resistant	Black • Gray / Unpainted Indigo • Navy • Lime • Yellow • Orange • Red / Painted
5	Corner guard	8	Silicone	Dark gray • Black
6	Screw (Hexagonal)	8	Stainless steel	Unfinished
7	Tilt leg	1 set	PC+ABS UL94V-0, TPE	Black & Black • Navy & Gray • Light gray & Gray

Color Type

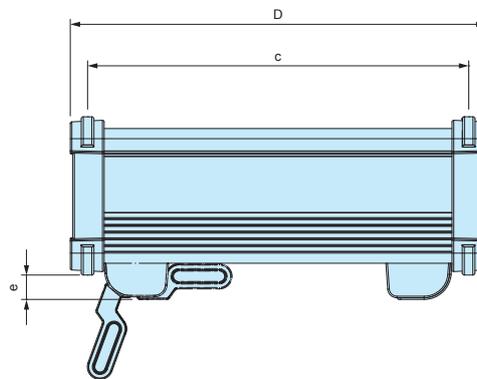
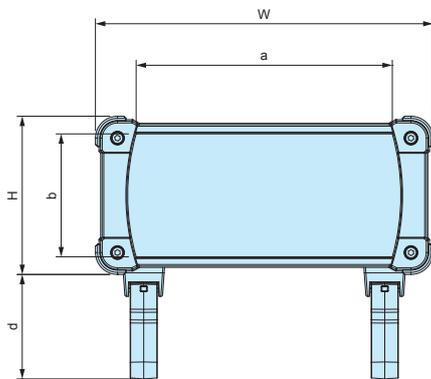
Code	[S][B] Silver / Black	[S][G] Silver / Gray	[S][I] Silver / Indigo	[S][N] Silver / Navy
Color				
Code	[S][L] Silver / Lime	[S][Y] Silver / Yellow	[S][O] Silver / Orange	[S][R] Silver / Red
Color				
Code	[B][B] Black / Black	[B][G] Black / Gray	[B][I] Black / Indigo	[B][N] Black / Navy
Color				
Code	[B][L] Black / Lime	[B][Y] Black / Yellow	[B][O] Black / Orange	[B][R] Black / Red
Color				

EXPT dimensions

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



Included screws
 EXPT20-□ models : M4-12 x 8 pcs
 EXPT24-□, 30-□ models : M5-12 x 8 pcs
 ※Hexagonal wrench included



※c = Top / Bottom cover length.

Product no. / Details

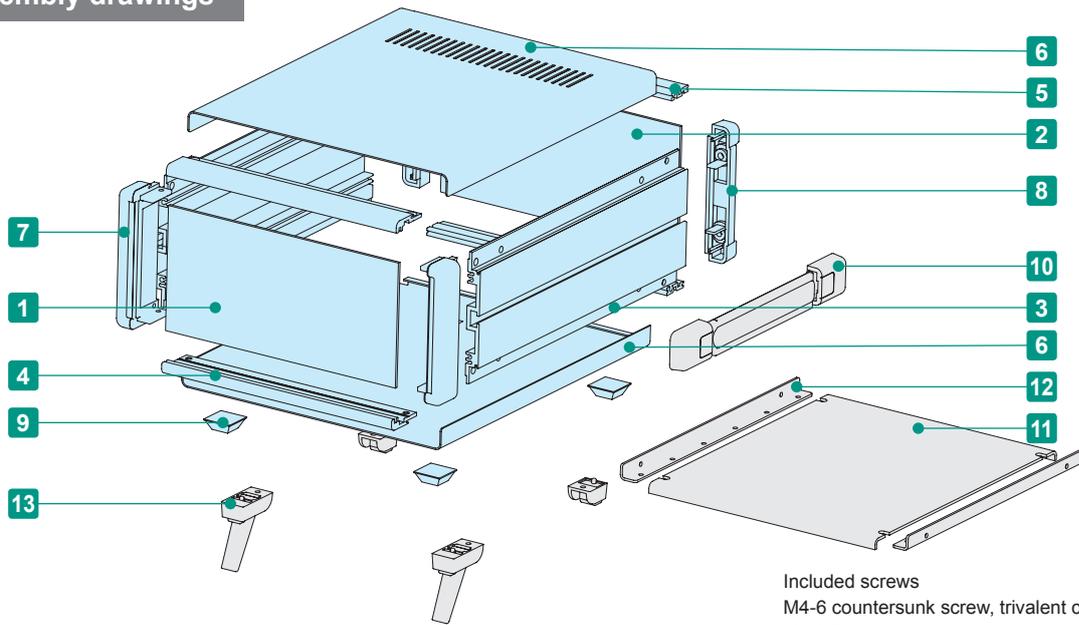
■ Please suffix color code at the end of the product number.

Product no.	External dimensions			Internal dimensions				
	W	H	D	a	b	c	d	e
EXPT20- 6-19□□	199	56	192	131	35	172	62	14.5
EXPT20- 6-25□□	199	56	245	131	35	225	62	14.5
EXPT20- 6-30□□	199	56	300	131	35	280	62	14.5
EXPT20- 7-19□□	199	74	192	131	53	172	62	14.5
EXPT20- 7-25□□	199	74	245	131	53	225	62	14.5
EXPT20- 7-30□□	199	74	300	131	53	280	62	14.5
EXPT20- 9-19□□	199	94	192	131	73	172	62	14.5
EXPT20- 9-25□□	199	94	245	131	73	225	62	14.5
EXPT20- 9-30□□	199	94	300	131	73	280	62	14.5
EXPT20-12-19□□	199	119	192	131	98	172	62	14.5
EXPT20-12-25□□	199	119	245	131	98	225	62	14.5
EXPT20-12-30□□	199	119	300	131	98	280	62	14.5
EXPT24- 6-17□□	244	64	170	176	43	147	62	14.5
EXPT24- 6-23□□	244	64	230	176	43	207	62	14.5
EXPT24- 6-29□□	244	64	290	176	43	267	62	14.5
EXPT24- 6-35□□	244	64	350	176	43	327	62	14.5
EXPT24- 9-17□□	244	89	170	176	68	147	62	14.5
EXPT24- 9-23□□	244	89	230	176	68	207	62	14.5
EXPT24- 9-29□□	244	89	290	176	68	267	62	14.5
EXPT24- 9-35□□	244	89	350	176	68	327	62	14.5
EXPT24-11-17□□	244	114	170	176	93	147	62	14.5
EXPT24-11-23□□	244	114	230	176	93	207	62	14.5
EXPT24-11-29□□	244	114	290	176	93	267	62	14.5
EXPT24-11-35□□	244	114	350	176	93	327	62	14.5
EXPT30- 9-25□□	300	90	250	230	68	228	61.5	14
EXPT30- 9-32□□	300	90	320	230	68	298	61.5	14
EXPT30- 9-40□□	300	90	400	230	68	378	61.5	14
EXPT30-14-25□□	300	140	250	230	118	228	61.5	14
EXPT30-14-32□□	300	140	320	230	118	298	61.5	14
EXPT30-14-40□□	300	140	400	230	118	378	61.5	14



- Available in 3 different colors and 160 different sizes.
- Maximum load support of 20kg.

Assembly drawings



Included screws
 M4-6 countersunk screw, trivalent chromate x 4 pcs
 M4-8 Pan head screw, trivalent chromate x 8 pcs
 M4-10 Binding head screw, black trivalent chromate x 4 pcs

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 • Bottom cover	1 each	Steel SPCC t=1.0	Light gray • Black / Painted
7	Corner block	2	Diecast aluminium ADC12	Gray • Black / Painted
8	Rear feet	2	ABS UL94V-0	Gray • Black
9	Rubber feet	4	Polyurethane	Black
10	Carrying handle	1	PP + Elastomer	Gray • Black

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

Accessories (Optional parts)



11 Mounting plate MSC series
See page MSC • MSCL-1



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



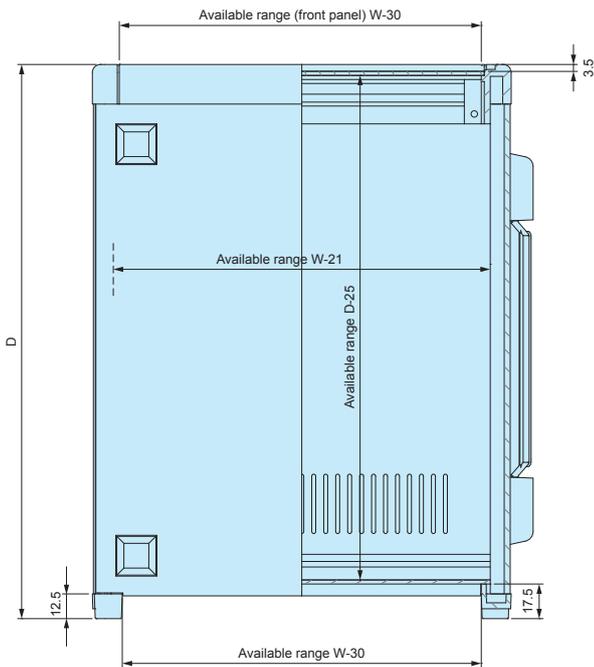
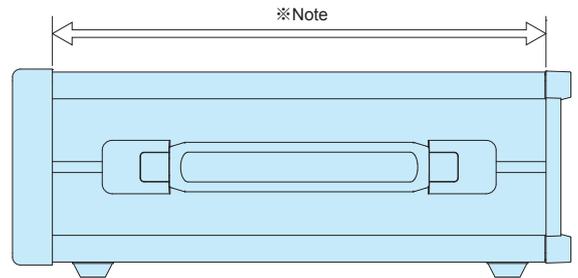
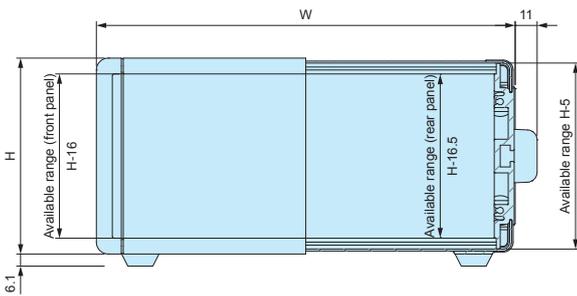
13 Tilt leg TL series
See page TL • CBF-1



Cable hook CBF series
See page TL • CBF-1

MSY dimensions

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



※ Note
Carrying handle location can be freely affixed within denoted range.

■ Top • Bottom cover of sizes 160×230, 160×280 do not have ventilation holes.

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)
MSY 66-16-23 □	66	160	230	1.4
MSY 66-16-28 □	66	160	280	1.6
MSY 66-21-23 □	66	210	230	1.6
MSY 66-21-28 □	66	210	280	1.9
MSY 66-21-35 □	66	210	350	2.3
MSY 66-26-23 □	66	260	230	1.9
MSY 66-26-28 □	66	260	280	2.2
MSY 66-26-35 □	66	260	350	2.7
MSY 66-32-23 □	66	320	230	2.2
MSY 66-32-28 □	66	320	280	2.6
MSY 66-32-35 □	66	320	350	3.1
MSY 66-32-45 □	66	320	450	3.9
MSY 66-37-23 □	66	370	230	2.5
MSY 66-37-28 □	66	370	280	2.9
MSY 66-37-35 □	66	370	350	3.5
MSY 66-37-45 □	66	370	450	4.2
MSY 66-43-23 □	66	430	230	2.8
MSY 66-43-28 □	66	430	280	3.3
MSY 66-43-35 □	66	430	350	3.9
MSY 66-43-45 □	66	430	450	4.9
MSY 88-16-23 □	88	160	230	1.5
MSY 88-16-28 □	88	160	280	1.8
MSY 88-21-23 □	88	210	230	1.8
MSY 88-21-28 □	88	210	280	2.1
MSY 88-21-35 □	88	210	350	2.5
MSY 88-26-23 □	88	260	230	2.1
MSY 88-26-28 □	88	260	280	2.4
MSY 88-26-35 □	88	260	350	2.9
MSY 88-32-23 □	88	320	230	2.4
MSY 88-32-28 □	88	320	280	2.8
MSY 88-32-35 □	88	320	350	3.4
MSY 88-32-45 □	88	320	450	4.2
MSY 88-37-23 □	88	370	230	2.7
MSY 88-37-28 □	88	370	280	3.1
MSY 88-37-35 □	88	370	350	3.7
MSY 88-37-45 □	88	370	450	4.5
MSY 88-43-23 □	88	430	230	3.0
MSY 88-43-28 □	88	430	280	3.5
MSY 88-43-35 □	88	430	350	4.2
MSY 88-43-45 □	88	430	450	5.2

Product no.	H	W	D	Weight (kg)
MSY 99-16-23 □	99	160	230	1.6
MSY 99-16-28 □	99	160	280	1.8
MSY 99-21-23 □	99	210	230	1.8
MSY 99-21-28 □	99	210	280	2.1
MSY 99-21-35 □	99	210	350	2.6
MSY 99-26-23 □	99	260	230	2.2
MSY 99-26-28 □	99	260	280	2.5
MSY 99-26-35 □	99	260	350	3.0
MSY 99-32-23 □	99	320	230	2.5
MSY 99-32-28 □	99	320	280	2.9
MSY 99-32-35 □	99	320	350	3.5
MSY 99-32-45 □	99	320	450	4.3
MSY 99-37-23 □	99	370	230	2.7
MSY 99-37-28 □	99	370	280	3.2
MSY 99-37-35 □	99	370	350	3.8
MSY 99-37-45 □	99	370	450	4.6
MSY 99-43-23 □	99	430	230	3.1
MSY 99-43-28 □	99	430	280	3.6
MSY 99-43-35 □	99	430	350	4.3
MSY 99-43-45 □	99	430	450	5.3
MSY133-16-23 □	133	160	230	1.8
MSY133-16-28 □	133	160	280	2.1
MSY133-21-23 □	133	210	230	2.1
MSY133-21-28 □	133	210	280	2.4
MSY133-21-35 □	133	210	350	2.9
MSY133-26-23 □	133	260	230	2.4
MSY133-26-28 □	133	260	280	2.8
MSY133-26-35 □	133	260	350	3.3
MSY133-32-23 □	133	320	230	2.7
MSY133-32-28 □	133	320	280	3.2
MSY133-32-35 □	133	320	350	3.8
MSY133-32-45 □	133	320	450	4.6
MSY133-37-23 □	133	370	230	3.0
MSY133-37-28 □	133	370	280	3.5
MSY133-37-35 □	133	370	350	4.2
MSY133-37-45 □	133	370	450	5.0
MSY133-43-23 □	133	430	230	3.4
MSY133-43-28 □	133	430	280	3.9
MSY133-43-35 □	133	430	350	4.7
MSY133-43-45 □	133	430	450	5.8

Product no. / Dimensions

Product no.	H	W	D	Weight (kg)
MSY149-16-23 □	149	160	230	1.9
MSY149-16-28 □	149	160	280	2.2
MSY149-21-23 □	149	210	230	2.2
MSY149-21-28 □	149	210	280	2.5
MSY149-21-35 □	149	210	350	3.0
MSY149-26-23 □	149	260	230	2.5
MSY149-26-28 □	149	260	280	2.9
MSY149-26-35 □	149	260	350	3.4
MSY149-32-23 □	149	320	230	2.9
MSY149-32-28 □	149	320	280	3.3
MSY149-32-35 □	149	320	350	4.0
MSY149-32-45 □	149	320	450	4.9
MSY149-37-23 □	149	370	230	3.2
MSY149-37-28 □	149	370	280	3.7
MSY149-37-35 □	149	370	350	4.3
MSY149-37-45 □	149	370	450	5.2
MSY149-43-23 □	149	430	230	3.6
MSY149-43-28 □	149	430	280	4.1
MSY149-43-35 □	149	430	350	4.8
MSY149-43-45 □	149	430	450	6.0
MSY177-16-23 □	177	160	230	2.3
MSY177-16-28 □	177	160	280	2.6
MSY177-21-23 □	177	210	230	2.6
MSY177-21-28 □	177	210	280	3.0
MSY177-21-35 □	177	210	350	3.6
MSY177-26-23 □	177	260	230	3.0
MSY177-26-28 □	177	260	280	3.4
MSY177-26-35 □	177	260	350	4.0
MSY177-32-23 □	177	320	230	3.3
MSY177-32-28 □	177	320	280	3.8
MSY177-32-35 □	177	320	350	4.6
MSY177-32-45 □	177	320	450	5.6
MSY177-37-23 □	177	370	230	3.6
MSY177-37-28 □	177	370	280	4.2
MSY177-37-35 □	177	370	350	5.0
MSY177-37-45 □	177	370	450	5.9
MSY177-43-23 □	177	430	230	4.0
MSY177-43-28 □	177	430	280	4.6
MSY177-43-35 □	177	430	350	5.5
MSY177-43-45 □	177	430	450	6.7

Product no.	H	W	D	Weight (kg)
MSY199-16-23 □	199	160	230	2.4
MSY199-16-28 □	199	160	280	2.8
MSY199-21-23 □	199	210	230	2.7
MSY199-21-28 □	199	210	280	3.1
MSY199-21-35 □	199	210	350	3.7
MSY199-26-23 □	199	260	230	3.1
MSY199-26-28 □	199	260	280	3.5
MSY199-26-35 □	199	260	350	4.2
MSY199-32-23 □	199	320	230	3.5
MSY199-32-28 □	199	320	280	4.0
MSY199-32-35 □	199	320	350	4.7
MSY199-32-45 □	199	320	450	5.7
MSY199-37-23 □	199	370	230	3.8
MSY199-37-28 □	199	370	280	4.4
MSY199-37-35 □	199	370	350	5.1
MSY199-37-45 □	199	370	450	6.1
MSY199-43-23 □	199	430	230	4.2
MSY199-43-28 □	199	430	280	4.8
MSY199-43-35 □	199	430	350	5.6
MSY199-43-45 □	199	430	450	6.9
MSY222-16-23 □	222	160	230	2.5
MSY222-16-28 □	222	160	280	2.9
MSY222-21-23 □	222	210	230	2.9
MSY222-21-28 □	222	210	280	3.3
MSY222-21-35 □	222	210	350	3.9
MSY222-26-23 □	222	260	230	3.3
MSY222-26-28 □	222	260	280	3.7
MSY222-26-35 □	222	260	350	4.4
MSY222-32-23 □	222	320	230	3.6
MSY222-32-28 □	222	320	280	4.1
MSY222-32-35 □	222	320	350	4.9
MSY222-32-45 □	222	320	450	6.0
MSY222-37-23 □	222	370	230	4.0
MSY222-37-28 □	222	370	280	4.5
MSY222-37-35 □	222	370	350	5.3
MSY222-37-45 □	222	370	450	6.4
MSY222-43-23 □	222	430	230	4.4
MSY222-43-28 □	222	430	280	5.0
MSY222-43-35 □	222	430	350	5.9
MSY222-43-45 □	222	430	450	7.2



- Available in 3 different colors and 176 different sizes.
- Screws are hidden out of view for a sophisticated and elegant look.
- Suitable for use as measuring instruments, testing equipment, power supply controller, etc.



MSN series
Tip-Up Handle Model



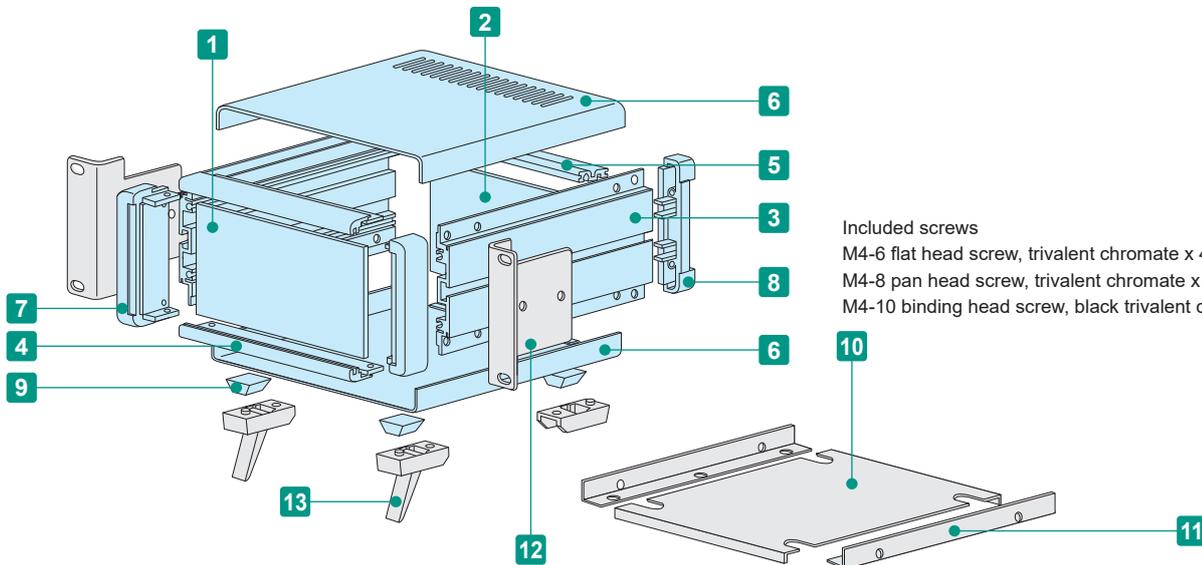
MSY series
Carrying Handle Model



MSR series
19" Rack Mount Model

Variations of MS series, MSN, MSY and MSR series are also available. See website for more details.

Assembly drawings



- Included screws
 M4-6 flat head screw, trivalent chromate x 4 pcs
 M4-8 pan head screw, trivalent chromate x 8 pcs
 M4-10 binding head screw, black trivalent chromate x 4 pcs

Components

No.	Part name	Pcs	Material	Color / Finish
1	Front panel	1	Aluminium A1100P t=2.0	Silver • Black / Anodized
2	Rear panel	1	Aluminium A1100P 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 • Bottom cover	1 each	Steel SPCC t=1.0	Light gray • Black / Painted
7	Corner block	2	Diecast aluminium ADC12	Gray • Black / Painted
8	Rear feet	2	ABS UL94V-0	Gray • Black
9	Rubber feet	4	Polyurethane	Black

■ Front • Rear panels are covered with a protective film on one side.

Accessories (Optional parts)



10 Mounting plate MSC series
See page 309



11 L-bracket MSCL series
See page 309



12 Rack mounting MSM series
See website

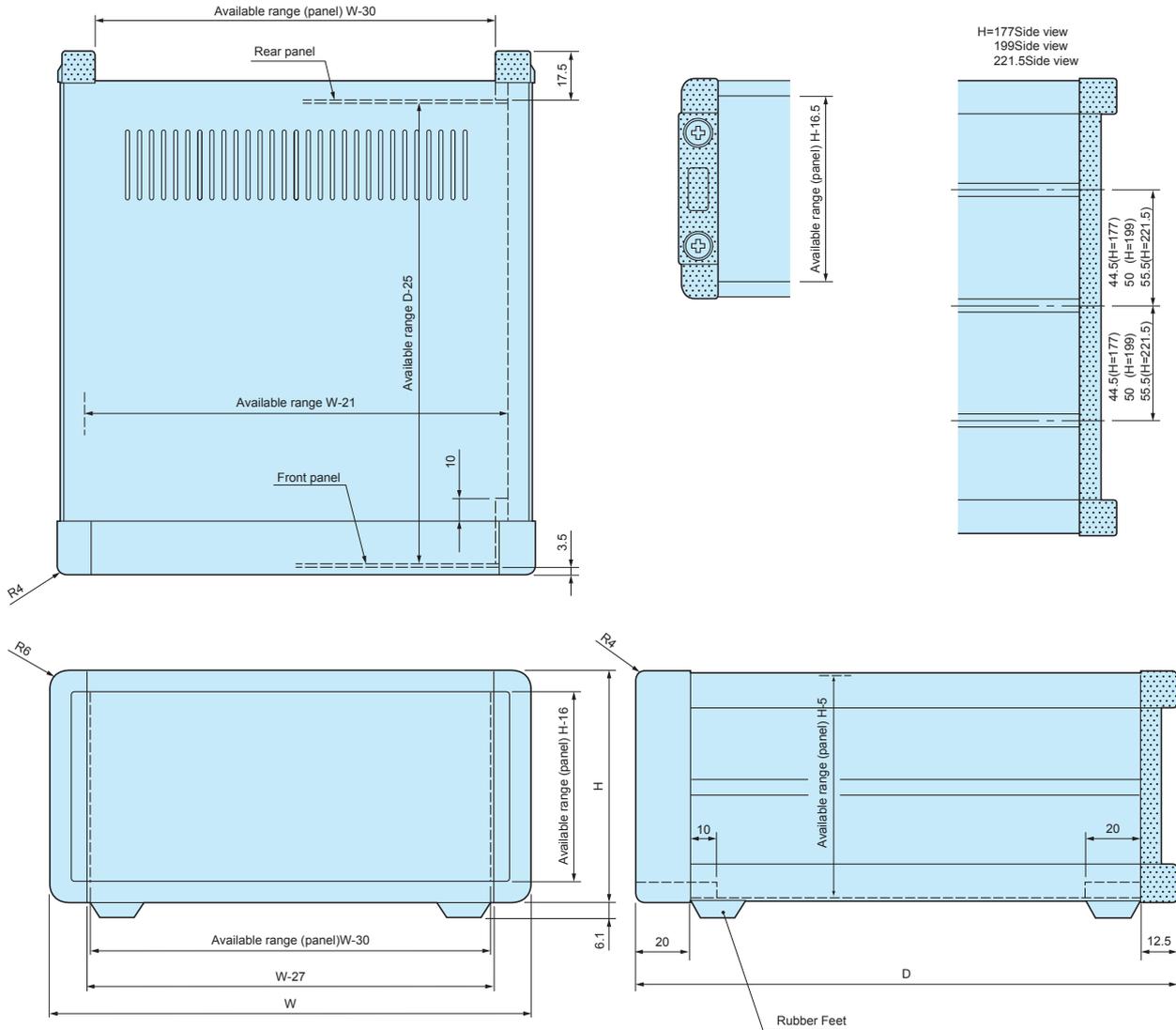


13 Tilt leg TL series
See page 310

Cable hook CBF series
See page 310

MS dimensions

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



Top • Bottom cover of sizes 160x160, 160x230, 160x280, 210x160 do not have ventilation holes.

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. / Details

Product no.	H	W	D	Weight (kg)
MS 66-16-16□	66	160	160	1.0
MS 66-16-23□	66	160	230	1.3
MS 66-16-28□	66	160	280	1.6
MS 66-21-16□	66	210	160	1.2
MS 66-21-23□	66	210	230	1.6
MS 66-21-28□	66	210	280	1.8
MS 66-21-35□	66	210	350	2.2
MS 66-26-23□	66	260	230	1.8
MS 66-26-28□	66	260	280	2.1
MS 66-26-35□	66	260	350	2.6
MS 66-32-23□	66	320	230	2.1
MS 66-32-28□	66	320	280	2.5
MS 66-32-35□	66	320	350	3.0
MS 66-32-45□	66	320	450	3.7
MS 66-37-23□	66	370	230	2.4
MS 66-37-28□	66	370	280	2.8
MS 66-37-35□	66	370	350	3.3
MS 66-37-45□	66	370	450	4.1
MS 66-43-23□	66	430	230	2.7
MS 66-43-28□	66	430	280	3.1
MS 66-43-35□	66	430	350	3.7
MS 66-43-45□	66	430	450	4.6
MS 88-16-16□	88	160	160	1.1
MS 88-16-23□	88	160	230	1.5
MS 88-16-28□	88	160	280	1.7
MS 88-21-16□	88	210	160	1.3
MS 88-21-23□	88	210	230	1.8
MS 88-21-28□	88	210	280	2.1
MS 88-21-35□	88	210	350	2.5
MS 88-26-23□	88	260	230	2.0
MS 88-26-28□	88	260	280	2.5
MS 88-26-35□	88	260	350	2.8
MS 88-32-23□	88	320	230	2.3
MS 88-32-28□	88	320	280	2.8
MS 88-32-35□	88	320	350	3.2
MS 88-32-45□	88	320	450	4.0
MS 88-37-23□	88	370	230	2.6
MS 88-37-28□	88	370	280	3.0
MS 88-37-35□	88	370	350	3.6
MS 88-37-45□	88	370	450	4.4
MS 88-43-23□	88	430	230	2.9
MS 88-43-28□	88	430	280	3.4
MS 88-43-35□	88	430	350	4.0
MS 88-43-45□	88	430	450	5.0

Product no.	H	W	D	Weight (kg)
MS 99-16-16□	99	160	160	1.1
MS 99-16-23□	99	160	230	1.5
MS 99-16-28□	99	160	280	1.8
MS 99-21-16□	99	210	160	1.4
MS 99-21-23□	99	210	230	1.8
MS 99-21-28□	99	210	280	2.1
MS 99-21-35□	99	210	350	2.5
MS 99-26-23□	99	260	230	2.0
MS 99-26-28□	99	260	280	2.4
MS 99-26-35□	99	260	350	2.8
MS 99-32-23□	99	320	230	2.4
MS 99-32-28□	99	320	280	2.8
MS 99-32-35□	99	320	350	3.3
MS 99-32-45□	99	320	450	4.0
MS 99-37-23□	99	370	230	2.6
MS 99-37-28□	99	370	280	3.0
MS 99-37-35□	99	370	350	3.6
MS 99-37-45□	99	370	450	4.5
MS 99-43-23□	99	430	230	3.0
MS 99-43-28□	99	430	280	3.4
MS 99-43-35□	99	430	350	4.1
MS 99-43-45□	99	430	450	5.0
MS133-16-16□	132.5	160	160	1.3
MS133-16-23□	132.5	160	230	1.7
MS133-16-28□	132.5	160	280	2.0
MS133-21-16□	132.5	210	160	1.6
MS133-21-23□	132.5	210	230	2.1
MS133-21-28□	132.5	210	280	2.4
MS133-21-35□	132.5	210	350	2.9
MS133-26-23□	132.5	260	230	2.4
MS133-26-28□	132.5	260	280	2.8
MS133-26-35□	132.5	260	350	3.3
MS133-32-23□	132.5	320	230	2.7
MS133-32-28□	132.5	320	280	3.2
MS133-32-35□	132.5	320	350	3.7
MS133-32-45□	132.5	320	450	4.5
MS133-37-23□	132.5	370	230	3.0
MS133-37-28□	132.5	370	280	3.5
MS133-37-35□	132.5	370	350	4.1
MS133-37-45□	132.5	370	450	5.0
MS133-43-23□	132.5	430	230	3.4
MS133-43-28□	132.5	430	280	3.9
MS133-43-35□	132.5	430	350	4.6
MS133-43-45□	132.5	430	450	5.6

Product no. / Details

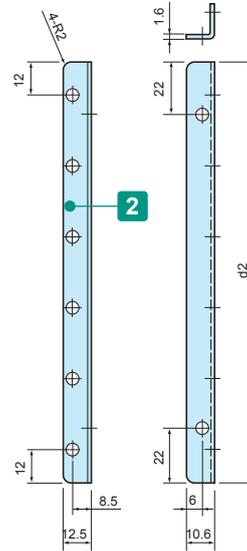
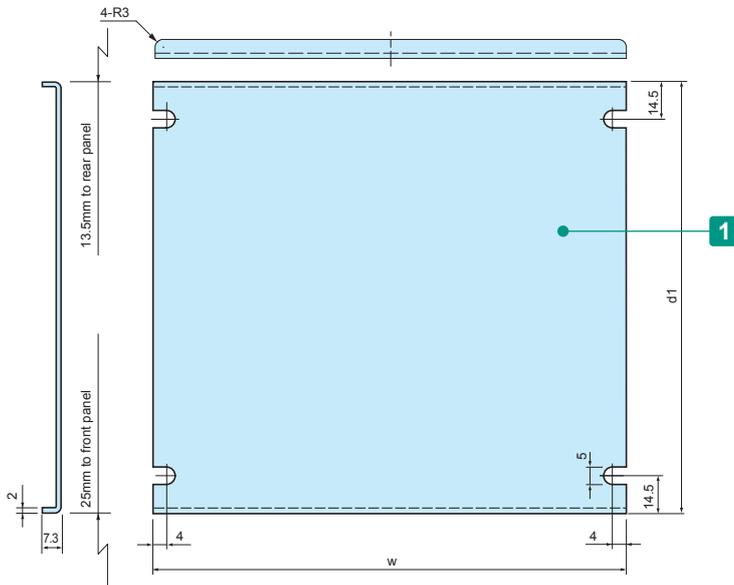
Product no.	H	W	D	Weight (kg)
MS149-16-16□	149	160	160	1.4
MS149-16-23□	149	160	230	1.8
MS149-16-28□	149	160	280	2.1
MS149-21-16□	149	210	160	1.6
MS149-21-23□	149	210	230	2.1
MS149-21-28□	149	210	280	2.4
MS149-21-35□	149	210	350	2.9
MS149-26-23□	149	260	230	2.4
MS149-26-28□	149	260	280	2.8
MS149-26-35□	149	260	350	3.3
MS149-32-23□	149	320	230	2.7
MS149-32-28□	149	320	280	3.2
MS149-32-35□	149	320	350	3.8
MS149-32-45□	149	320	450	4.6
MS149-37-23□	149	370	230	3.0
MS149-37-28□	149	370	280	3.5
MS149-37-35□	149	370	350	4.1
MS149-37-45□	149	370	450	5.1
MS149-43-23□	149	430	230	3.4
MS149-43-28□	149	430	280	3.9
MS149-43-35□	149	430	350	4.6
MS149-43-45□	149	430	450	5.6
MS177-16-16□	177	160	160	1.6
MS177-16-23□	177	160	230	2.2
MS177-16-28□	177	160	280	2.5
MS177-21-16□	177	210	160	1.9
MS177-21-23□	177	210	230	2.7
MS177-21-28□	177	210	280	3.1
MS177-21-35□	177	210	350	3.6
MS177-26-23□	177	260	230	3.0
MS177-26-28□	177	260	280	3.4
MS177-26-35□	177	260	350	4.0
MS177-32-23□	177	320	230	3.3
MS177-32-28□	177	320	280	3.9
MS177-32-35□	177	320	350	4.5
MS177-32-45□	177	320	450	5.5
MS177-37-23□	177	370	230	3.6
MS177-37-28□	177	370	280	4.2
MS177-37-35□	177	370	350	4.9
MS177-37-45□	177	370	450	6.0
MS177-43-23□	177	430	230	4.0
MS177-43-28□	177	430	280	4.6
MS177-43-35□	177	430	350	5.4
MS177-43-45□	177	430	450	6.6

Product no.	H	W	D	Weight (kg)
MS199-16-16□	199	160	160	1.9
MS199-16-23□	199	160	230	2.4
MS199-16-28□	199	160	280	2.7
MS199-21-16□	199	210	160	2.1
MS199-21-23□	199	210	230	2.7
MS199-21-28□	199	210	280	3.1
MS199-21-35□	199	210	350	3.7
MS199-26-23□	199	260	230	3.1
MS199-26-28□	199	260	280	3.5
MS199-26-35□	199	260	350	4.1
MS199-32-23□	199	320	230	3.4
MS199-32-28□	199	320	280	3.9
MS199-32-35□	199	320	350	4.7
MS199-32-45□	199	320	450	5.7
MS199-37-23□	199	370	230	3.8
MS199-37-28□	199	370	280	4.3
MS199-37-35□	199	370	350	5.1
MS199-37-45□	199	370	450	6.0
MS199-43-23□	199	430	230	4.2
MS199-43-28□	199	430	280	4.8
MS199-43-35□	199	430	350	5.6
MS199-43-45□	199	430	450	6.9
MS222-16-16□	222	160	160	2.0
MS222-16-23□	222	160	230	2.5
MS222-16-28□	222	160	280	2.8
MS222-21-16□	222	210	160	2.2
MS222-21-23□	222	210	230	2.8
MS222-21-28□	222	210	280	3.2
MS222-21-35□	222	210	350	3.8
MS222-26-23□	222	260	230	3.2
MS222-26-28□	222	260	280	3.6
MS222-26-35□	222	260	350	4.3
MS222-32-23□	222	320	230	3.6
MS222-32-28□	222	320	280	4.1
MS222-32-35□	222	320	350	4.9
MS222-32-45□	222	320	450	6.0
MS222-37-23□	222	370	230	3.9
MS222-37-28□	222	370	280	4.5
MS222-37-35□	222	370	350	5.3
MS222-37-45□	222	370	450	6.4
MS222-43-23□	222	430	230	4.4
MS222-43-28□	222	430	280	5.0
MS222-43-35□	222	430	350	5.9
MS222-43-45□	222	430	450	7.2

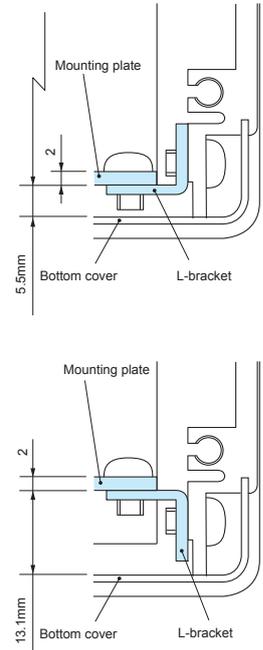
MSC series MOUNTING PLATE for MS

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

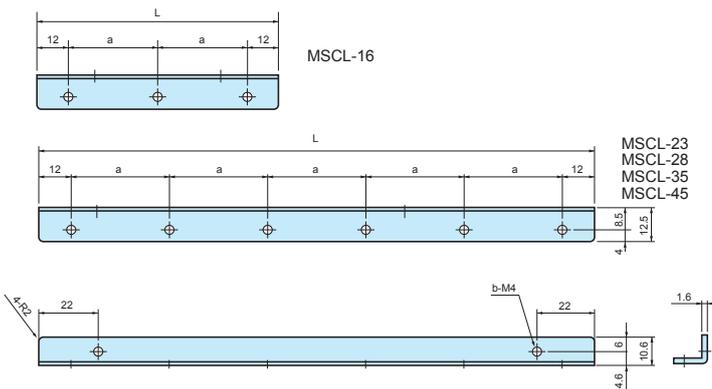
Included screws: M4-6 pan head, trivalent chromate x8

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

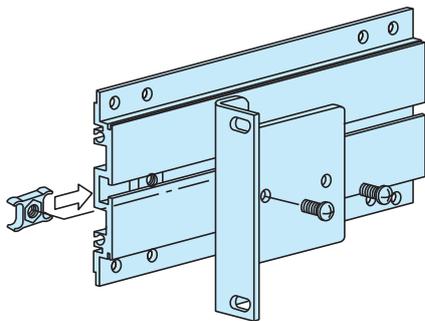
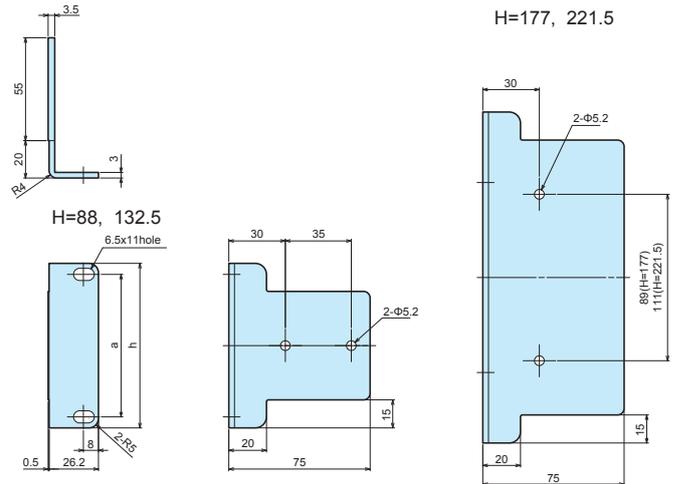
Color Type

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

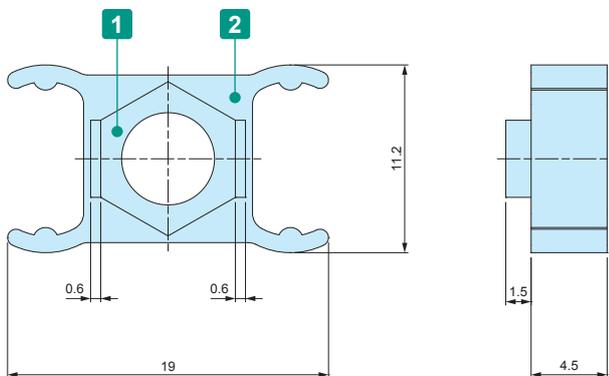
■ Please suffix color code at the end of the product number.



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

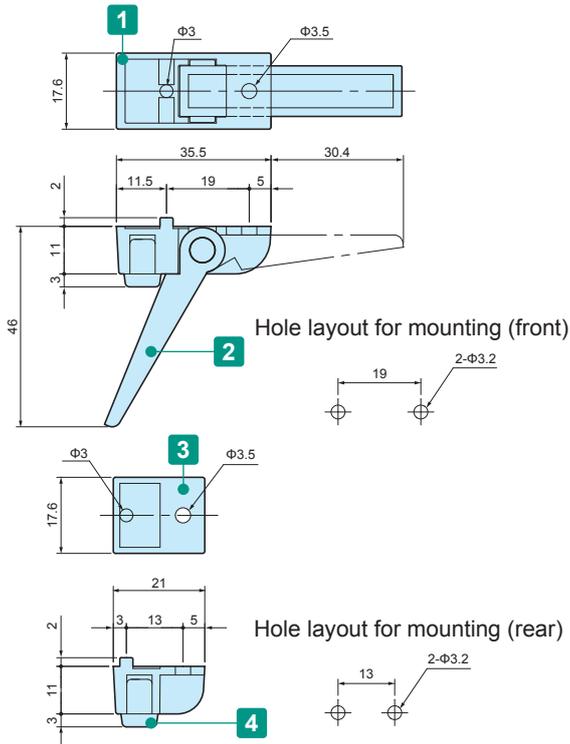
Product no. / Feature

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

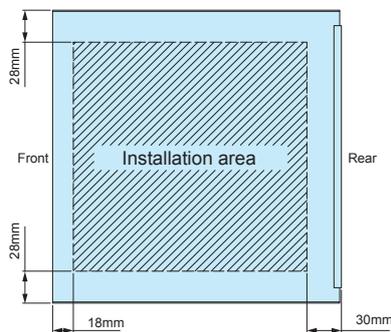
Included screws: M3-8 and M3 nut (with washer) set.

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

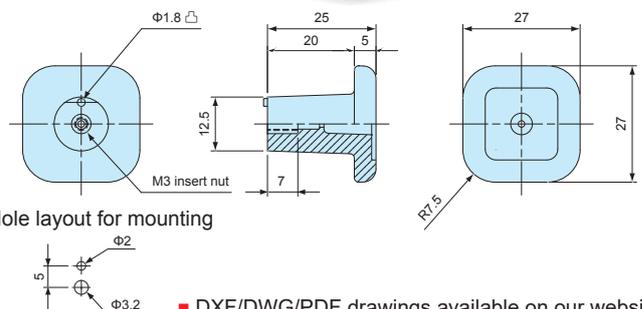
Product no.	Material	Color	Pack of
CBF-1G	ABS UL94HB	Gray	4

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



CBF dimensions

APPLICATION EXAMPLE



DXF/DWG/PDF drawings available on our website.