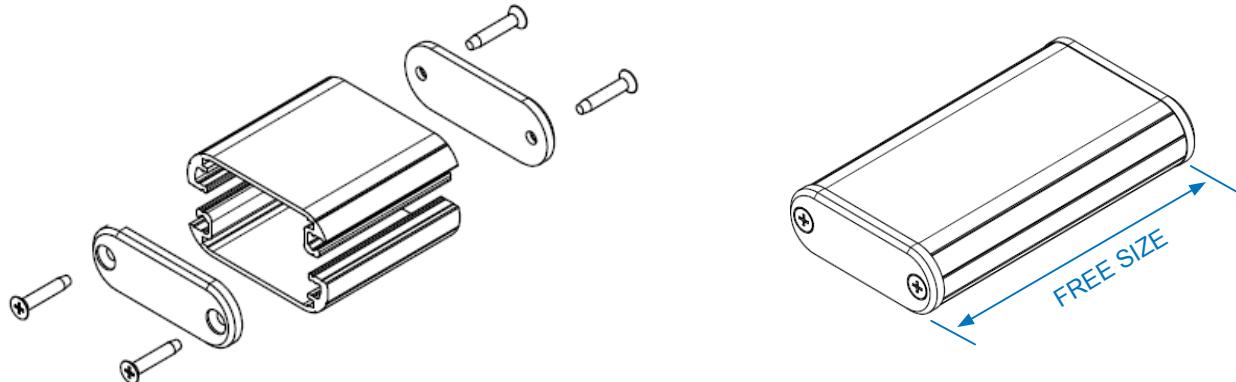


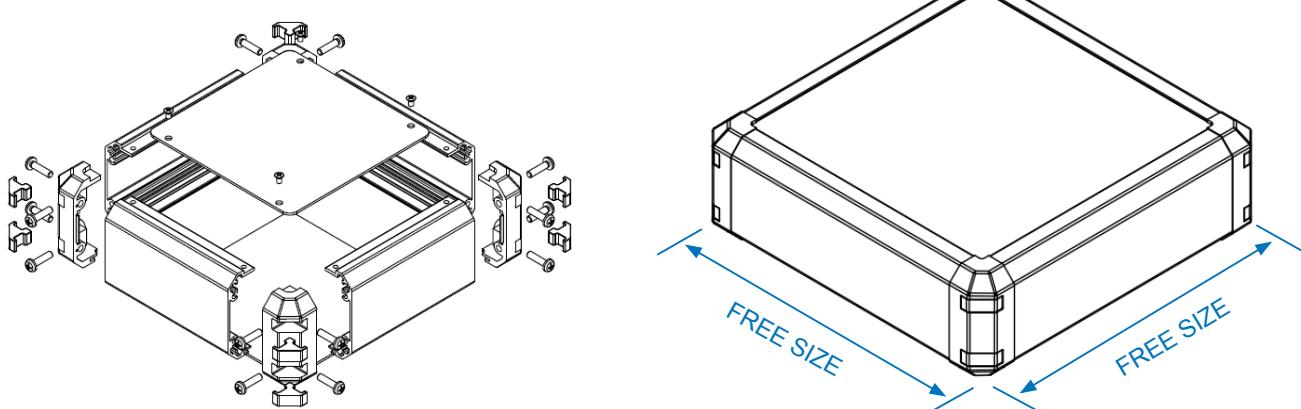
VARIETY OF CUSTOM SIZED ENCLOSURES

Extruded models are adjustable in extrusion length (depth) in 0.1mm or 1.0mm intervals.
Sheet-metal models are adjustable in W/D/H dimensions in 1.0mm intervals.

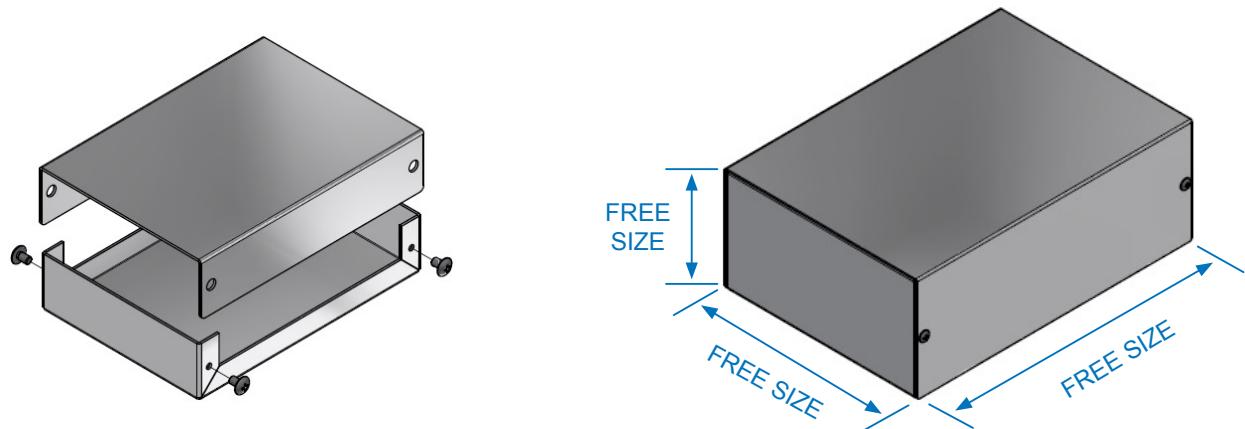
EXTRUDED ALUMINIUM MODEL



4 SIDE-EXTRUDED ALUMINIUM MODEL



SHEET METAL MODEL



More custom sized models are available.

https://www.takachi-enclosure.com/cat/flexible_size

INQUIRING CUSTOM SIZED ENCLOSURES

1 Navigate to the free-size product page you wish to inquire on our website and click on the button indicated by the ➔ arrow.



Custom sized shock-proof design Instrument enclosure.
Corner guards are designed to be both aesthetically pleasing, and Impact resistant.

Selectable 22 different Width/Height profiles and specified length (depth) from 40 to 500mm in 1mm intervals.
16 different color combinations can be specified.



CUSTOM SIZE WEB QUOTATION

3D View - Silver/Navy

3D View - 16 color types

3D View - With tilt legs

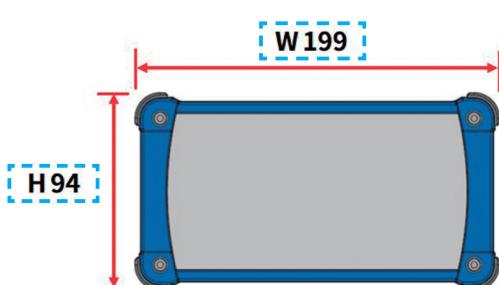
Exploded view

Color code

- If there is no "WEB QUOTATION" click button, please send us your inquiry from the "INQUIRY FORM" on the CONTACT tab on our website.

2 Go to the CUSTOM SIZE WEB QUOTATION page and enter your preferred dimensions.

STEP1 Select required width / height.



| Select | W | H |
|--------------------------|-----|----|
| <input type="checkbox"/> | 69 | 34 |
| <input type="checkbox"/> | 69 | 44 |
| <input type="checkbox"/> | 69 | 59 |
| <input type="checkbox"/> | 89 | 39 |
| <input type="checkbox"/> | 89 | 49 |
| <input type="checkbox"/> | 89 | 64 |
| <input type="checkbox"/> | 116 | 41 |
| <input type="checkbox"/> | 116 | 56 |
| <input type="checkbox"/> | 116 | 71 |
| <input type="checkbox"/> | 151 | 46 |
| <input type="checkbox"/> | 151 | 61 |

| Select | W | H |
|-------------------------------------|-----|-----|
| <input type="checkbox"/> | 151 | 81 |
| <input type="checkbox"/> | 151 | 101 |
| <input type="checkbox"/> | 199 | 56 |
| <input type="checkbox"/> | 199 | 74 |
| <input checked="" type="checkbox"/> | 199 | 94 |
| <input type="checkbox"/> | 199 | 119 |
| <input type="checkbox"/> | 244 | 64 |
| <input type="checkbox"/> | 244 | 89 |
| <input type="checkbox"/> | 244 | 114 |
| <input type="checkbox"/> | 300 | 90 |
| <input type="checkbox"/> | 300 | 140 |

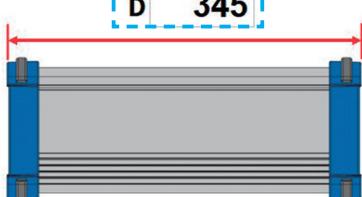
STEP2 Specify size D(depth) ... Enter dimensions in 1mm intervals.

Available from 40 to 500mm

*NOTE: Specified size D(depth) =/ available internal dimension

Available internal dimension = **D dimension - 20mm**

Please take caution when calculating required D dimension.



3 After entering the quantity, click on the button indicated by the  arrow to generate a Product No.

STEP4 **Quantity** ※Quantity can be specified up to 5 slots.

| | |
|----|-----|
| 10 | pcs |
|----|-----|

[▶ Add quantity](#)

  **GENERATE PRODUCT NO.**

Product No. **EXPS199-94-345SN** ※Please use this model number when ordering.

4 After entering your details and the message in our INQUIRY FORM, click on the CONFIRM button.

STEP5 INQUIRY FORM

Fill out the inquiry form and send it. We will give you quotation by Email.
Inquiry from the country where the distributor is located will be answered by the distributor.

Fields marked with **★** are required

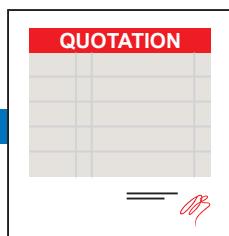
| | | | |
|---|--|-------------------|-----------------------------------|
| Product No. | EXPS199-94-345SN | Quantity ★ | 10 |
| E-mail ★ | <input type="text" value="jiro@takachi-el.co.jp"/> | | |
| Company ★ | <input type="text" value="TAKACHI ELECTRONICS ENCLOSURE CO., LTD."/> | | |
| Your name ★ | <input type="radio"/> Mr. <input checked="" type="radio"/> Ms. | First name | <input type="text" value="Jiro"/> |
| Country ★ | <input type="text"/> | | |
| <p>I would like a quote for 10 pieces of EXPS199-94-345SN.</p> <p>Message</p> | | | |



 **CONFIRM**

Our privacy policy have been designed to ensure that personal information is not misused or used for purposes other than it is intended for.
[PRIVACY POLICY](#)

5 A TAKACHI sales representative will get in touch with you with a quote via e-mail.

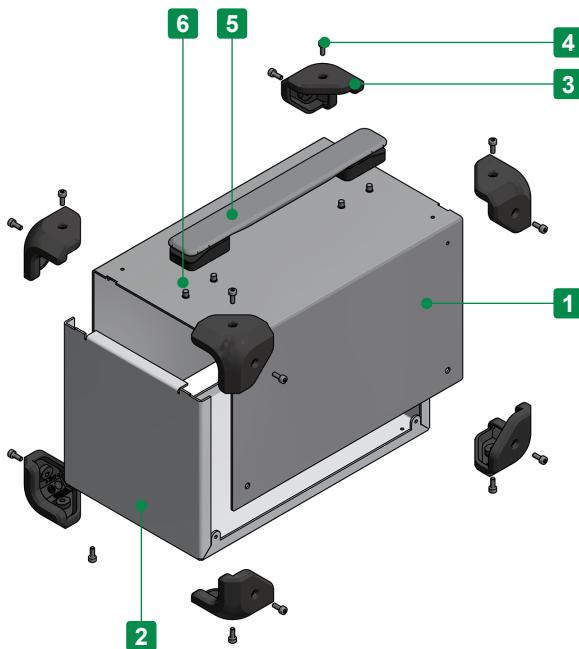


MCGF SERIES

CUSTOM SIZED ALUMINIUM CASE with CORNER GUARD

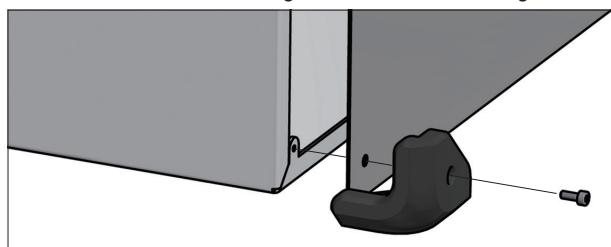


Conductive



- Custom sized aluminium case with shockproof and anti-slip elastomer corner guards.
- Adjustable sizes available in 1mm intervals, with W dimension from 150 ~ 500mm, D dimension from 150 ~ 400mm, and H dimension from 80 ~ 250mm.
- Corner guards are available in 4 different color variations.
- Customizable with, and without carrying handles.
- A conductive coating is applied onto the internal surface, allowing it to be conductive.

■ Aluminium case and corner guard with screw fastening.



Components

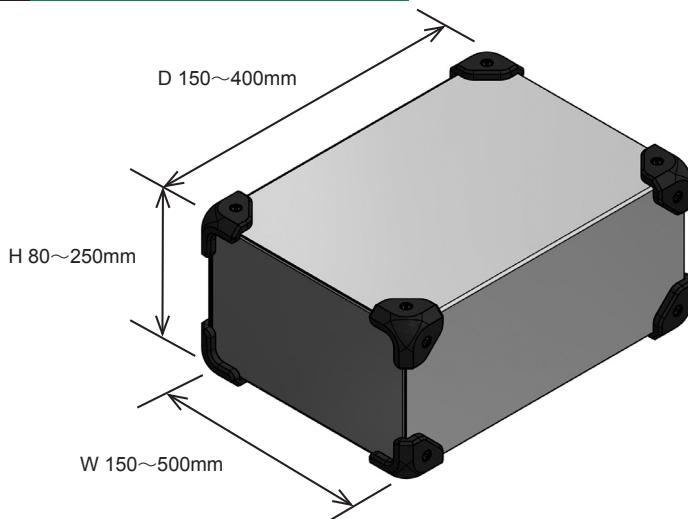
| No. | Part name | Pcs | Material | Color / Finish |
|-----|--|----------|------------------------|--|
| 1 | Top Cover | 1 | Aluminium A1100P t=1.5 | Metallic silver / Painted : Conductive coated internal surface |
| 2 | Base | 1 | Aluminium A1100P t=1.5 | Metallic silver / Painted : Conductive coated internal surface |
| 3 | Corner guard | 8 | TPE | Black • Gray • Navy • Red |
| 4 | Case / Corner guard screw (Hexagonal M4-8) | 16/18/20 | Steel | Black trivalent chromate |
| 5 | Carrying handle | 1 | PU • PA6 • ABS • Steel | Black • Gray |
| 6 | Carrying handle screw (M5-8) | 4 | Steel | Trivalent chromate |

■ Hexagonal wrench included.

■ No. 5 and 6 are available for carrying handle types only.

1 Specify Dimensions

Specify dimensions in 1mm intervals.



Caution

- W / H / D dimensions are external dimensions of stainless steel case only.
(Exclude corner guard dimensions)
- Refer to the chart on page MCGF-3 for available dimensions.
- Carrying handle is set to the center of top face.
(Carrying handle is not available for D length of 224mm and smaller.)

2 Select Color Type

| Code | S B Silver / Black | S G Silver / Gray | S N Silver / Navy | S R Silver / Red |
|-------|--------------------|-------------------|-------------------|------------------|
| Color | | | | |

3 Select Handle Type

- Carrying handle model is not available for D length of 224mm and smaller.

Black handle [B]



Gray handle [G]



No handle [N]



Confirm Product No.

Confirm an assigned product number in the following order format as below.

Product no. MCGF

□ - □ - □ □□ - □
W H D Color code Handle Type

Example : W = 186 mm, H = 152 mm, D = 245 mm, Silver / Navy color, with Gray handle

MCGF 186 - 152 - 245 S N - G

Lead time

Custom Size Only
Custom Size + Hole Milling

7 business days (1 ~ 3 pcs)
10 business days (1 ~ 3 pcs)

Order Inquiry

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

MCGF Size Chart

Refer to the below chart for available sizes.

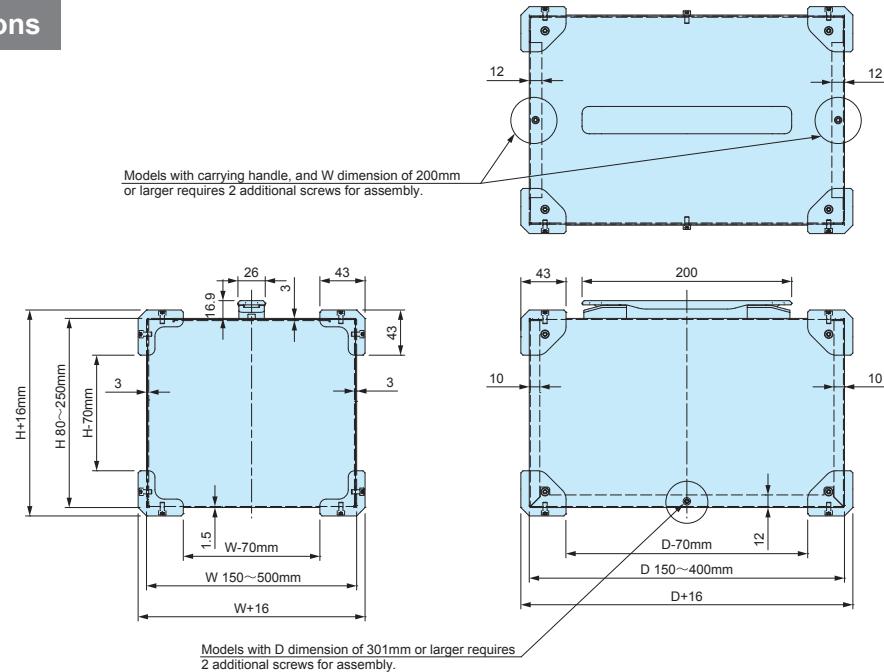
■ [—] sizes are not available.

■ Models with carrying handle, and W dimension of 200mm or larger requires 2 additional screws for assembly.

| W | H | D | 16 screw fixing points | | | | | | 18 screw fixing points | | | |
|---------|---------|---|------------------------|---------|---------|---------|---------|---------|------------------------|---------|---------|---------|
| | | | 150~174 | 175~199 | 200~224 | 225~249 | 250~274 | 275~299 | 300~324 | 325~349 | 350~374 | 375~400 |
| 150~199 | 80~99 | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 100~124 | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 200~249 | 80~99 | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 100~124 | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 125~149 | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 150~174 | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 175~199 | — | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 250~299 | 80~99 | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 100~124 | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 125~149 | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 150~174 | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 175~199 | — | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 200~224 | — | — | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ |
| 300~349 | 80~99 | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 100~124 | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 125~149 | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 150~174 | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 175~199 | — | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 200~224 | — | — | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ |
| 350~399 | 80~99 | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 100~124 | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 125~149 | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 150~174 | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 175~199 | — | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 200~224 | — | — | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ |
| 400~449 | 80~99 | — | — | — | — | — | — | — | — | — | — | — |
| | 100~124 | — | — | — | — | — | — | — | — | — | — | — |
| | 125~149 | — | — | — | — | — | — | — | — | — | — | — |
| | 150~174 | — | — | — | — | — | — | — | — | — | — | — |
| | 175~199 | — | — | — | — | — | — | — | — | — | — | — |
| | 200~224 | — | — | — | — | — | — | — | — | — | — | — |
| 450~500 | 80~99 | — | — | — | — | — | — | — | — | — | — | — |
| | 100~124 | — | — | — | — | — | — | — | — | — | — | — |
| | 125~149 | — | — | — | — | — | — | — | — | — | — | — |
| | 150~174 | — | — | — | — | — | — | — | — | — | — | — |
| | 175~199 | — | — | — | — | — | — | — | — | — | — | — |
| | 200~224 | — | — | — | — | — | — | — | — | — | — | — |
| 225~250 | 80~99 | — | — | — | — | — | — | — | — | — | — | — |
| | 100~124 | — | — | — | — | — | — | — | — | — | — | — |
| | 125~149 | — | — | — | — | — | — | — | — | — | — | — |
| | 150~174 | — | — | — | — | — | — | — | — | — | — | — |
| | 175~199 | — | — | — | — | — | — | — | — | — | — | — |
| | 200~224 | — | — | — | — | — | — | — | — | — | — | — |

■ Carrying handle model is not available for D length of 224mm and smaller.

MCGF dimensions

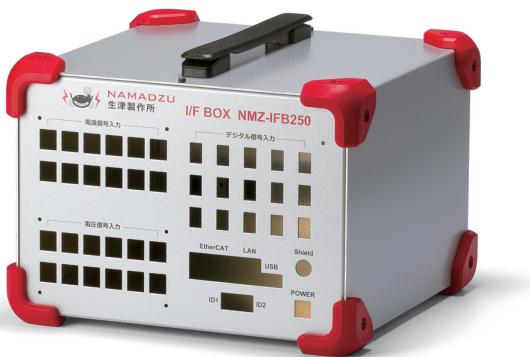


CUSTOMIZATION EXAMPLE

PUNCH PRESS



INKJET PRINTING

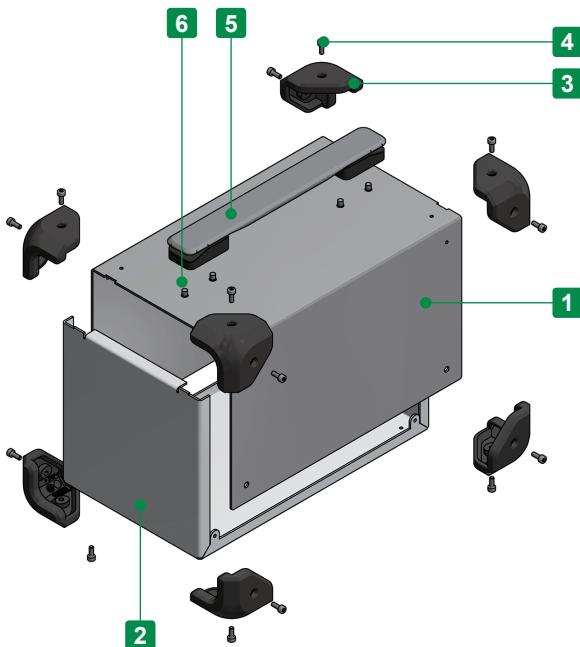


SELF CLINCHING STANOFF

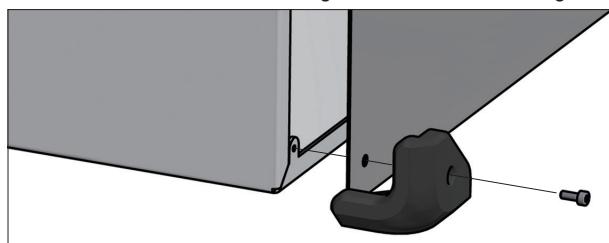


MCGS SERIES

CUSTOM SIZED STAINLESS STEEL CASE with CORNER GUARD



- Adjustable sizes available in 1mm intervals, with W dimension from 150 ~ 500mm, D dimension from 150 ~ 400mm, and H dimension from 80 ~ 250mm.
- Custom sized stainless steel case with shockproof and anti-slip elastomer corner guards.
- Corner guards are available in 4 different color variations.
- Customizable with, and without carrying handles.
- SUS304 stainless steel allows the enclosure to be conductive.
- Stainless steel case and corner guard with screw fastening.



Components

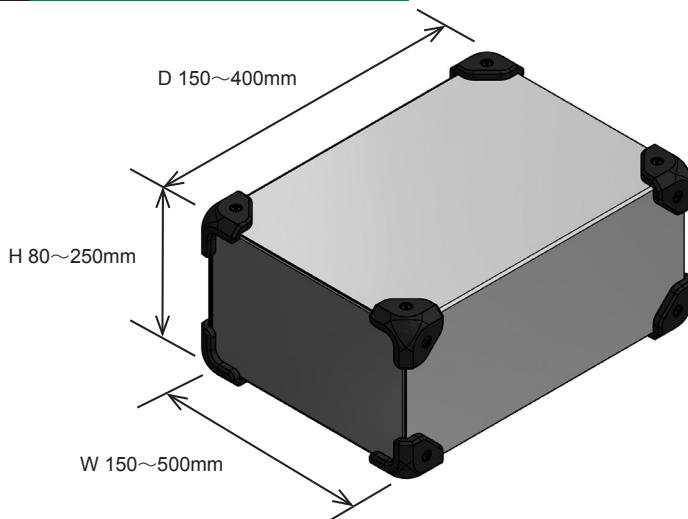
| No. | Part name | Pcs | Material | Color / Finish |
|-----|--|--------------|------------------------|---------------------------|
| 1 | Top Cover | 1 | Stainless steel SUS304 | Bright annealed (BA) |
| 2 | Base | 1 | Stainless steel SUS304 | Bright annealed (BA) |
| 3 | Corner guard | 8 | TPE | Black • Gray • Navy • Red |
| 4 | Case / Corner guard screw (Hexagonal M4-8) | 16 / 18 / 20 | Stainless steel | Unfinished |
| 5 | Carrying handle | 1 | PU • PA6 • ABS • Steel | Black • Gray |
| 6 | Carrying handle screw (M5-8) | 4 | Steel | Trivalent chromate |

■ Hexagonal wrench included.

■ No. 5 and 6 are available for carrying handle types only.

1 Specify Dimensions

Specify dimensions in 1mm intervals.



Caution

- W, H and D dimensions are external dimensions of stainless steel case only.
(Exclude corner guard dimensions)
- Refer to the chart on page MCGS-3 for available dimensions.
- Carrying handle is set to the center of top face.
(Carrying handle is not available for D length of 224mm and smaller.)

2 Select Color Type

| Code | <input checked="" type="checkbox"/> Black | <input type="checkbox"/> Gray | <input type="checkbox"/> Navy | <input type="checkbox"/> Red |
|-------|---|-------------------------------|-------------------------------|------------------------------|
| Color | | | | |

3 Select Handle Type

- Carrying handle model is not available for D length of 224mm and smaller.

Black handle



Gray handle



No handle



Confirm Product No.

Confirm an assigned product number in the following order format as below.

Product no. MCGS

- - -
W H D Color code Handle Type

Example : W = 222 mm, H = 111 mm, D = 333 mm, Red color Corner Guard with Black handle

MCGS 222 - 111 - 333 R - B

Lead time

Custom Size Only
Custom Size + Hole Milling

9 business days (1 ~ 10 pcs)
10 business days (1 ~ 10 pcs)

Order Inquiry

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

MCGS Size Chart

Refer to the below chart for available sizes.

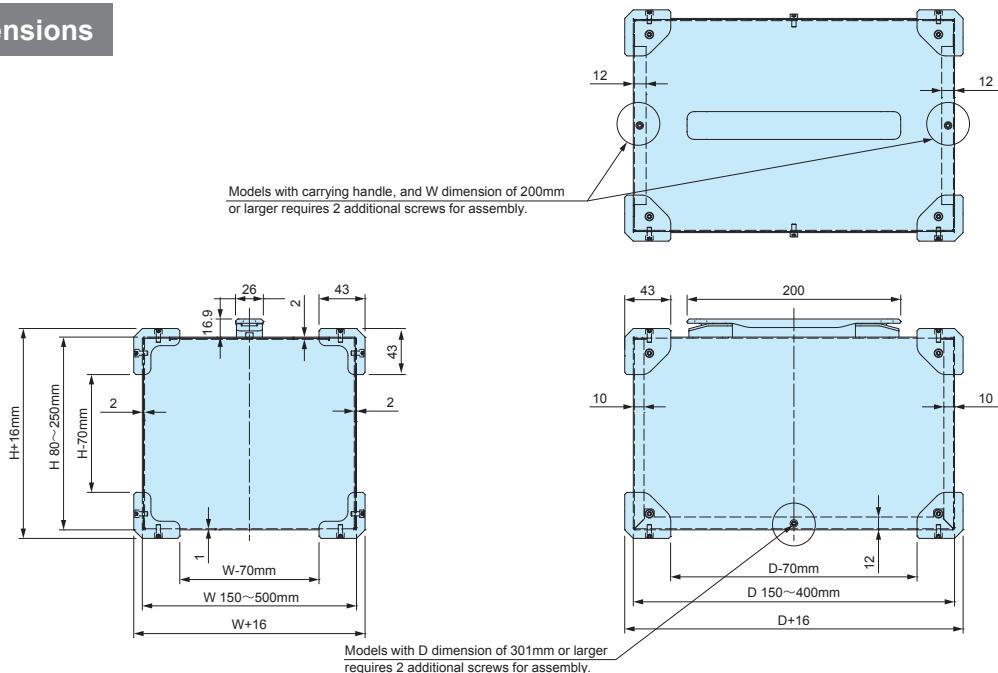
■ [—] sizes are not available.

■ Models with carrying handle, and W dimension of 200mm or larger requires 2 additional screws for assembly.

| W | H | D | 16 screw fixing points | | | | | | 18 screw fixing points | | | |
|---------|---------|---|------------------------|---------|---------|---------|---------|---------|------------------------|---------|---------|---------|
| | | | 150～174 | 175～199 | 200～224 | 225～249 | 250～274 | 275～299 | 300～324 | 325～349 | 350～374 | 375～400 |
| 150～199 | 80～99 | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 100～124 | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 200～249 | 80～99 | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 100～124 | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 125～149 | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 150～174 | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 175～199 | — | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 250～299 | 80～99 | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 100～124 | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 125～149 | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 150～174 | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 175～199 | — | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 200～224 | — | — | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ |
| 300～349 | 80～99 | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 100～124 | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 125～149 | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 150～174 | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 175～199 | — | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 200～224 | — | — | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ |
| 350～399 | 80～99 | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 100～124 | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 125～149 | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 150～174 | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 175～199 | — | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 200～224 | — | — | — | — | — | ○ | ○ | ○ | ○ | ○ | ○ |
| 400～449 | 80～99 | — | — | — | — | — | — | — | — | — | — | — |
| | 100～124 | — | — | — | — | — | — | — | — | — | — | — |
| | 125～149 | — | — | — | — | — | — | — | — | — | — | — |
| | 150～174 | — | — | — | — | — | — | — | — | — | — | — |
| | 175～199 | — | — | — | — | — | — | — | — | — | — | — |
| | 200～224 | — | — | — | — | — | — | — | — | — | — | — |
| 450～500 | 80～99 | — | — | — | — | — | — | — | — | — | — | — |
| | 100～124 | — | — | — | — | — | — | — | — | — | — | — |
| | 125～149 | — | — | — | — | — | — | — | — | — | — | — |
| | 150～174 | — | — | — | — | — | — | — | — | — | — | — |
| | 175～199 | — | — | — | — | — | — | — | — | — | — | — |
| | 200～224 | — | — | — | — | — | — | — | — | — | — | — |
| 225～250 | 80～99 | — | — | — | — | — | — | — | — | — | — | — |
| | 100～124 | — | — | — | — | — | — | — | — | — | — | — |
| | 125～149 | — | — | — | — | — | — | — | — | — | — | — |
| | 150～174 | — | — | — | — | — | — | — | — | — | — | — |
| | 175～199 | — | — | — | — | — | — | — | — | — | — | — |
| | 200～224 | — | — | — | — | — | — | — | — | — | — | — |

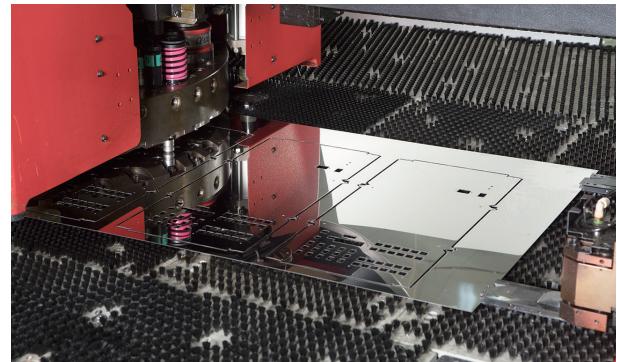
■ Carrying handle model is not available for D length of 224mm and smaller.

MCGS dimensions

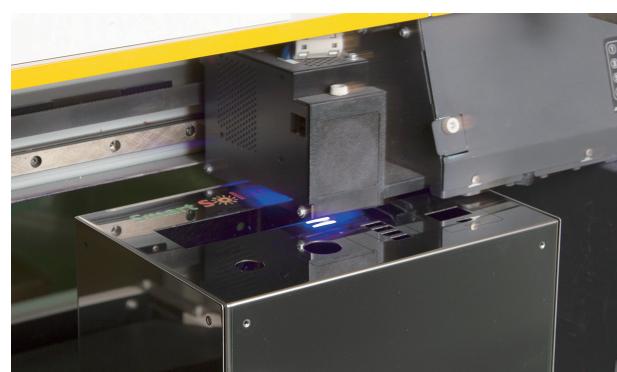


CUSTOMIZATION EXAMPLE

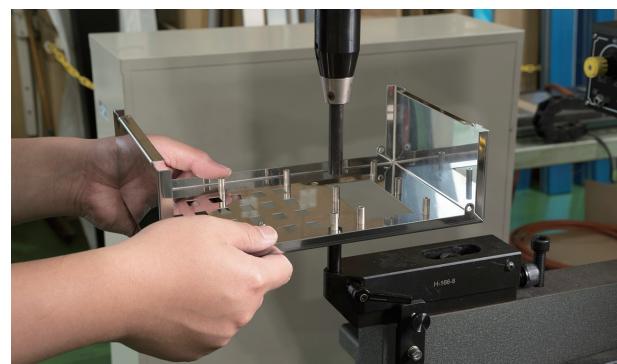
PUNCH PRESS



INKJET PRINTING



SELF CLINCHING STANOFF



SELF-CLINCHING STANDOFF / STUD / NUT



Easy attaching of self-clinching fasteners into simple through-holes.

A specialized press machine for clinching is utilized to ensure that the standoffs / studs / nuts are securely attached.

117 different kinds of standoffs / studs / nuts are available, in addition to a non-through hole concealed-head type.

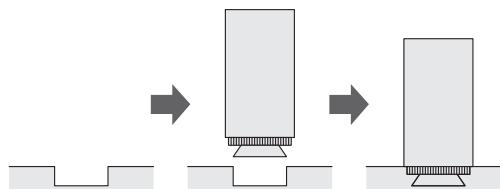
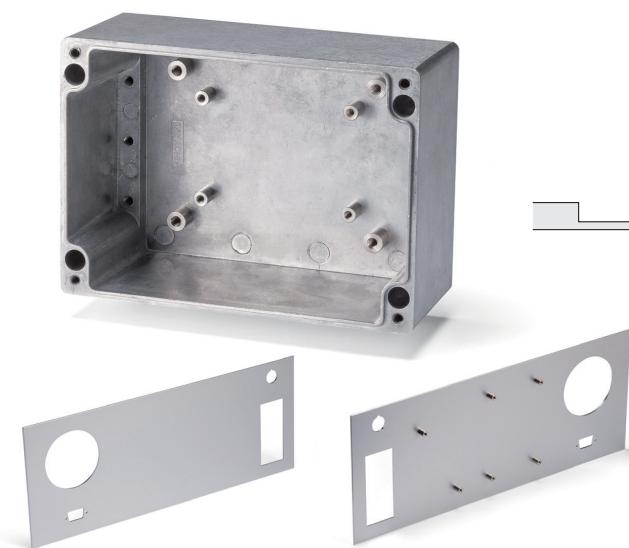


CONCEALED-HEAD SELF-CLINCHING STANDOFFS

Installed into recessed pockets so that one side of the panel remains unmarked.

Standoffs can be mounted onto 1.5mm or thicker material without requiring a through-hole to be milled.

Concealed-head standoffs/studs ensure that the IP rating (for waterproof type enclosure) is maintained.



Concealed-head standoffs/studs give an aesthetically better finish on the enclosure.

A recess cut is made on the internal side, and the standoffs are press-inserted in.

Mounting Mark Visibility

| Thickness | Mark visibility | |
|-----------|-----------------|----|
| | M3 | M4 |
| 1.5mm | △ | × |
| 2.0mm | ○ | ○ |
| 2.5mm | ○ | ○ |
| 3.0mm ~ | ○ | ○ |

- Almost invisible
- Barely visible
- △ Somewhat visible
- × Very visible



Example : Clinching M4 standoff on 1.5mm thick material.

Mounting is possible on 1.5mm thick material.

Mounting mark would be almost invisible on 2.5mm or thicker material.

STUD WELDING

Welded fasteners on aluminium objects. Standoffs and studs with minimal surface weld marks can be produced. Welding process is available on raw aluminium material only (not available for painted or anodized aluminium) as welding requires the material to be conductive.

