Uniquely Designed Aluminium Case with distinctive features and easy-to-assemble structure!

Flat panels with a curved arc design creates a unique aesthetic appearance and allows both easy assembly and customization.

TKCETECH AL-R180S-ITX

USB

USB LAN LAN WiFi

HDMI

INPUT

DVI

OUTPUT

KEYBOARD

SOUND

EMBEDDED COMPUTER

Mini STX Drive

DC IN

RASPBERRY PI CASE

RaspberryPi

USB C micro HDMI AUDIO

USB 3.0 Ethernet

AUDIO AMPLIFIER

TK Audio Design Lab.

POWER

USB

PHONES

ANALOG

16~300 Ω

24k Ƭ

min Volume max

High performance 20bit 192kHz stereo USB DAC / ADC Recording Interface

POWER SUPPLY

COMPACT ENERGY SOLAR POWER STRAGE SYSTEM

W

表示 DC AC

ON/OFF ON/OFF

DC出力 AC出力

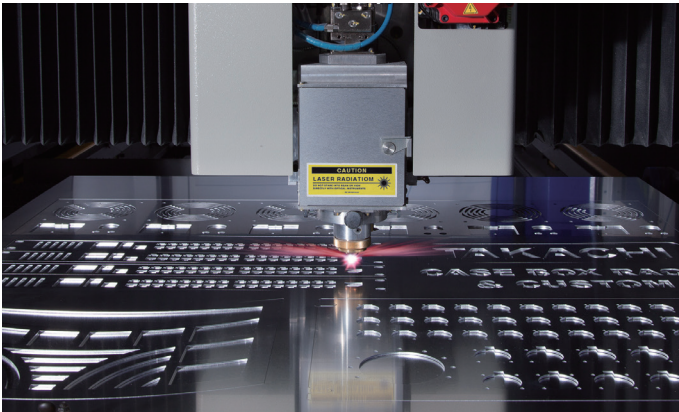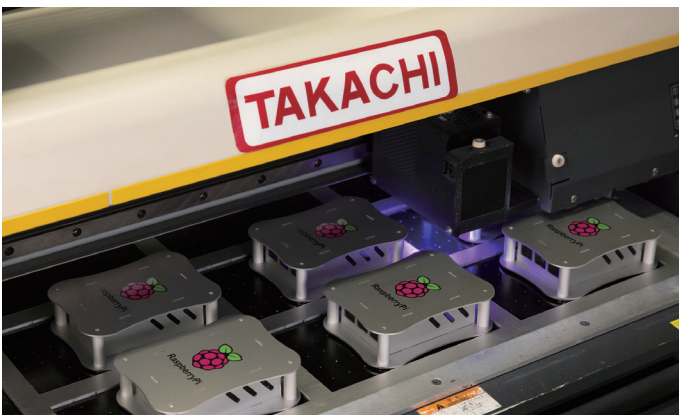**ALR-1**

Customization services available at TAKACHI

Fiber laser machine allows the processing of aluminium sheets with both high precision and speed.

Digital inkjet printing enables high quality full color printing with minimal tooling cost.
High resolution photo images and color gradation can also be printed with ease.

Installation of self-clinching standoffs and nuts are possible. TAKACHI has over 100 different types of clinching standoffs and nuts available, which can be installed with precision and speed.

CUSTOM COLOR ANODIZATION · CUSTOM COLOR PAINTING

ALR SERIES

# ARC DESIGN ALUMINIUM CASE 🌟🌟 NEW
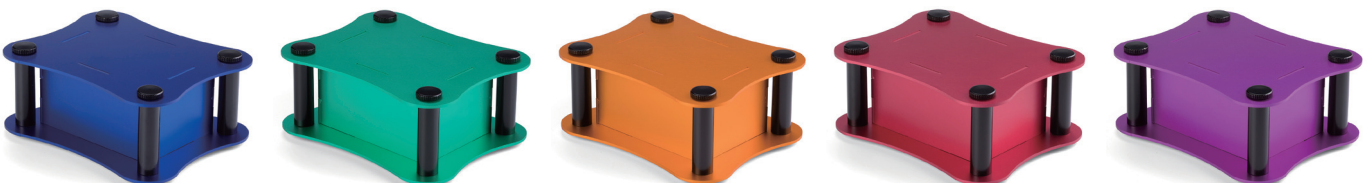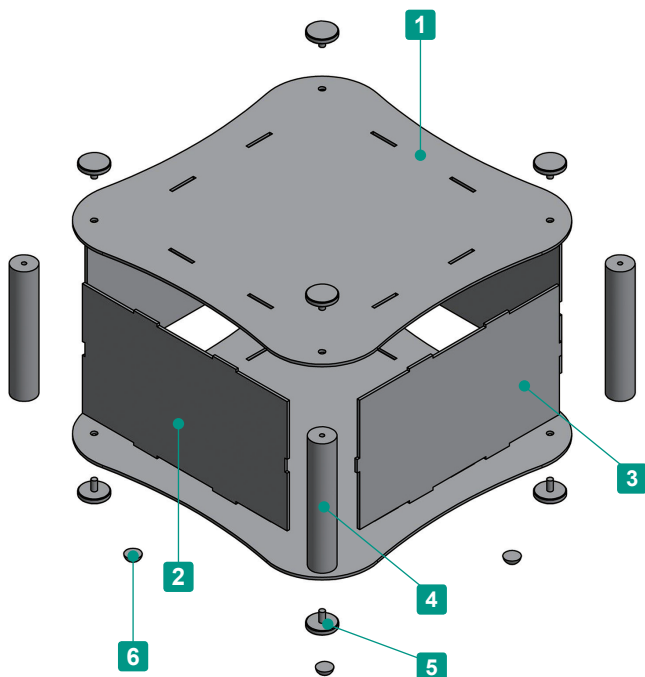
- Curved arc designed aluminium case with corner support columns.
- 6 different sizes are available.
- While elegantly designed, the flat panel structure allows for easy usage and customization.
- ALR11-5-17 and 11-8-17 models are compatible with the Euro Board. ALR18-7-18 and 18-10-18 models are compatible with the Mini ITX board.
- Possible to be used in a flat layout, or a standing layout.
- Knurled thumb screws for easy hand assembly.
- Custom sized case are available.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Top · bottom cover	1 each	Aluminium A1100P	Silver anodized
2	W panel	2	Aluminium A1100P	Silver anodized
3	D panel	2	Aluminium A1100P	Silver anodized
4	Pillar	4	Extruded aluminium A6063S-T5	Silver anodized
5	Knurled thumb screw	8	Brass	Nickel plated
6	Rubber feet	4	Polyurethane	Transparent

ALR dimensions

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

Knurled thumb screw dimensions

M3 size

M4 size

Rubber feet dimensions
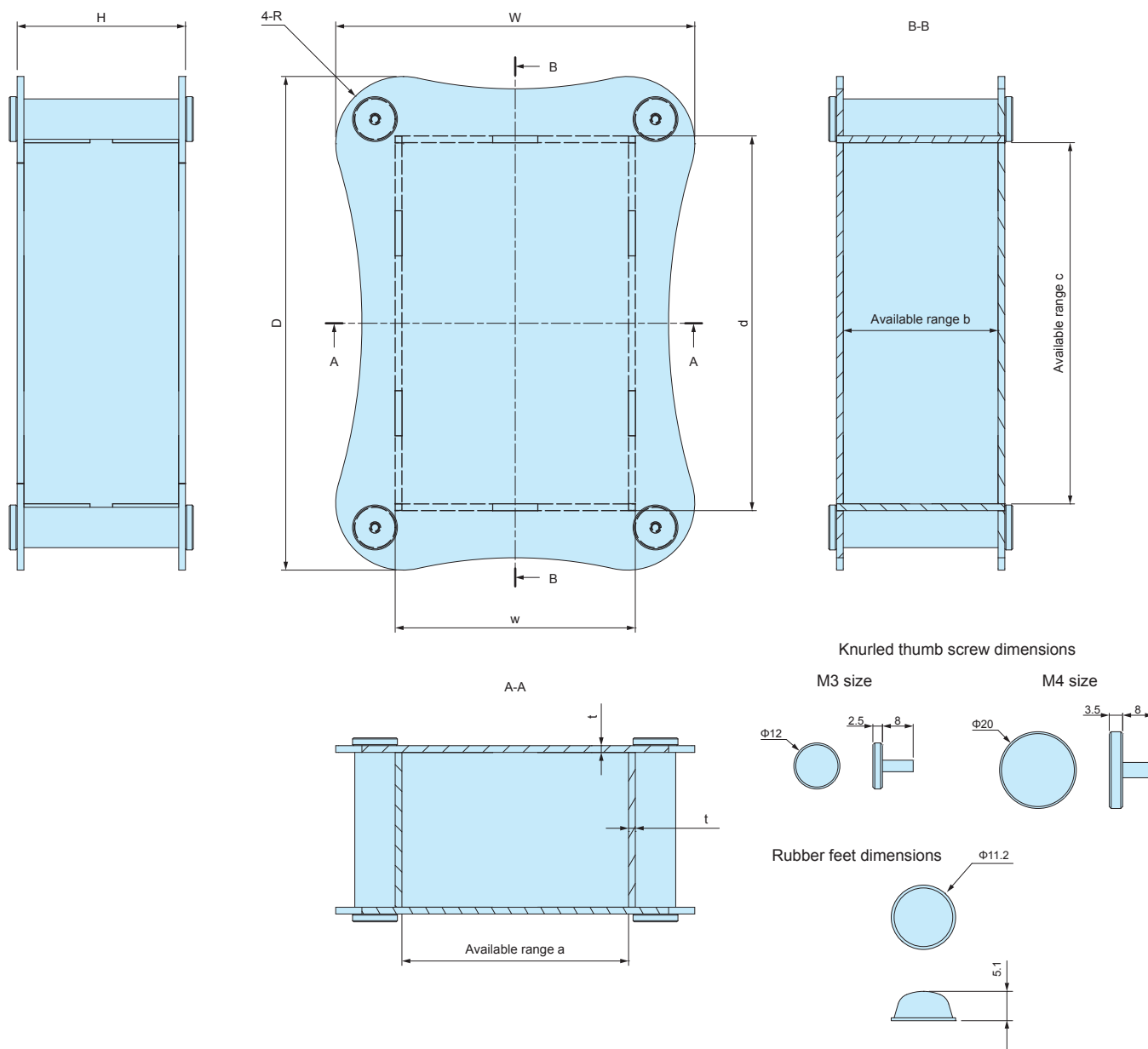
Product no. / Dimensions

Product no.	External dimensions			Case dimensions		Available range			R	t	Screw size	Weight (g)
	W	H	D	w	d	a	b	c				
ALR10- 5-10	140	50	140	104	104	101	47	101	25	1.5	M3	274
ALR11- 5-17	163	45	223	105	165	101	41	161	25	2	M4	653
ALR11- 8-17	163	75	223	105	165	101	71	161	25	2	M4	816.5
ALR18- 7-18	237	65	237	175	175	171	61	171	40	2	M4	1,004
ALR18-10-18	237	100	237	175	175	171	96	171	40	2	M4	1,225
ALR30- 7-20	362	70	264	300	200	296	66	196	40	2	M4	1,536

■ Similar transparent type design, as well as custom sizes are also available.
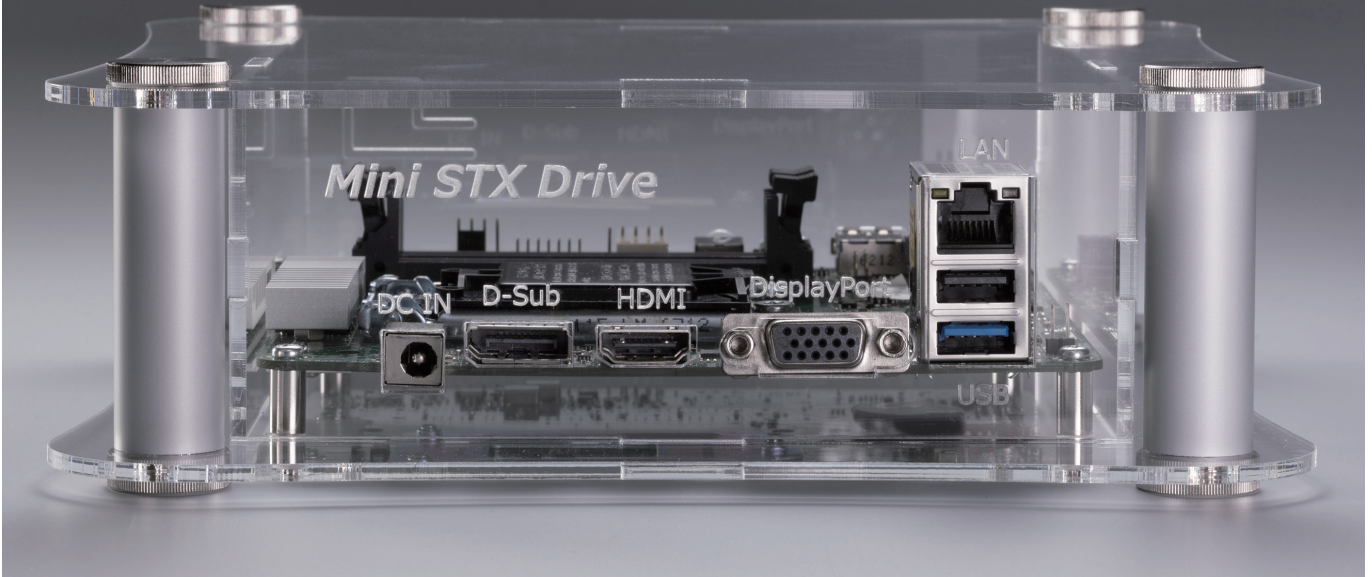

Skeleton case SKL series
See page SKL-1 〜 SKL-2

Custom sized skeleton case SKLF series
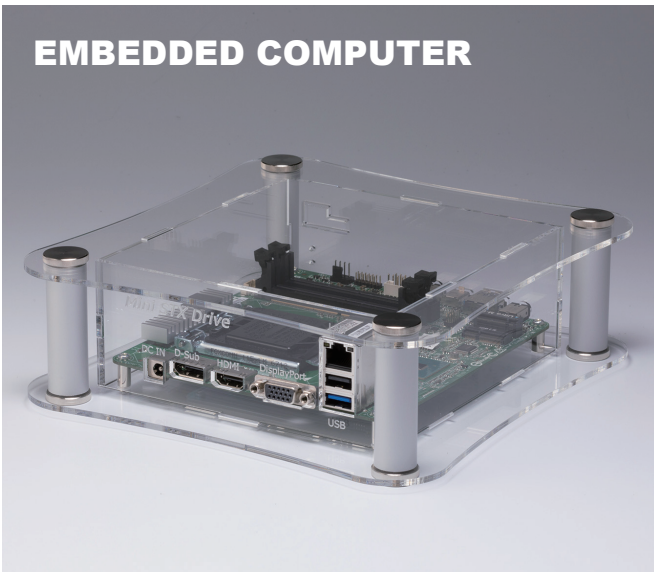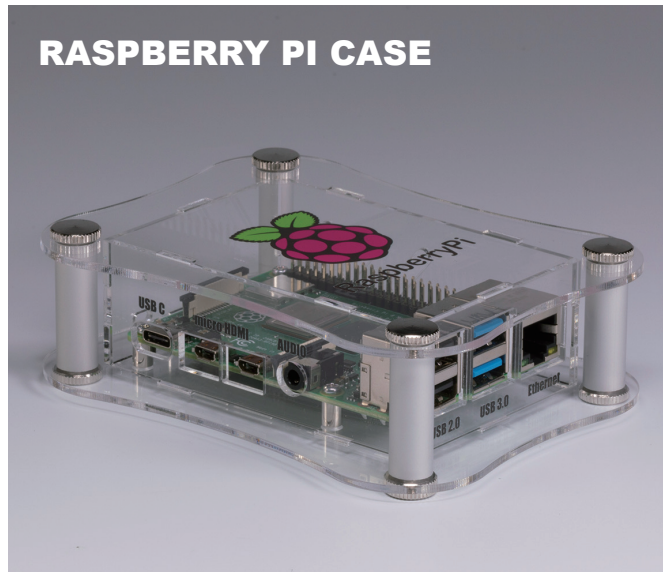See page SKLF-1 〜 SKLF-4

ALR-4

Show inside for visual appeal with our transparent case.

Mini STX Drive
DC IN D-Sub HDMI DisplayPort LAN USB

EMBEDDED COMPUTER

RASPBERRY PI CASE

DISPLAY CASE

THERMOSTAT
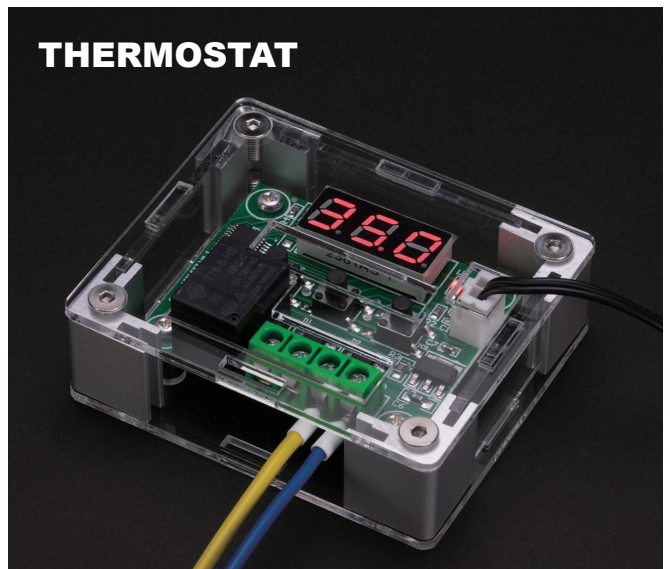
CUSTOMIZATION POSSIBILITIES

Inkjet Printing · Engraving

Print your logo, letters via inkjet printing with low initial cost from just 1 piece.
Engraving is also possible!
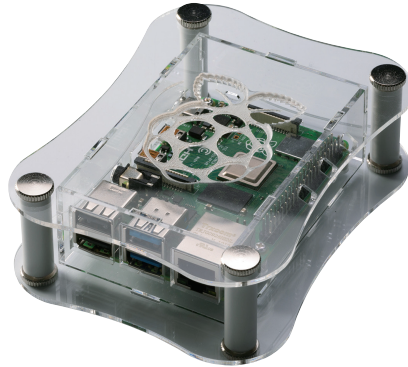
Developed Idea by using acrylic panels

Aluminium panels can be exchanged for an acrylic panel for display of internal components. Perfect for use as showcase models or product demonstrations. (Example: FC series)

Used as a visually appealing decorative front panel placing on a standard aluminium panel. (Example: AWA series)

COLOR VARIATION

Available in different color types, as well as smoked / tinted shades.

SKL SERIES

SKELETON CASE

NEW
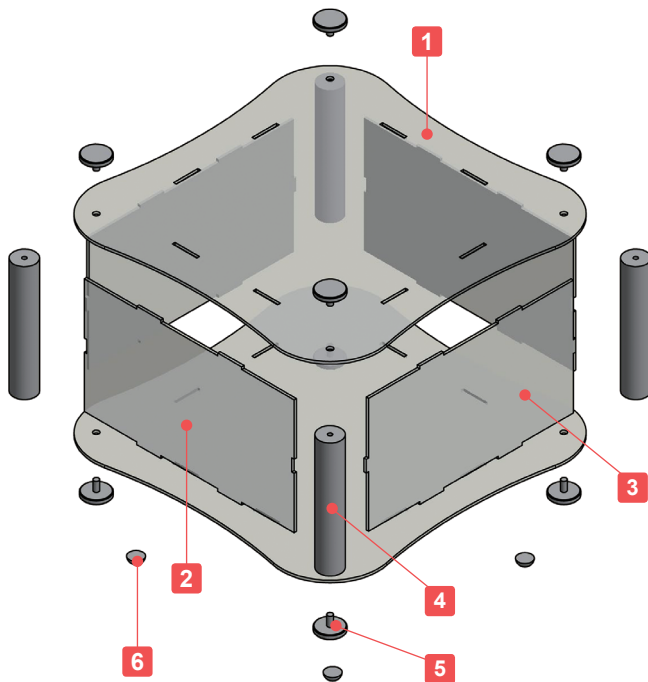
- Curved transparent acrylic case with corner support columns.
- 5 different sizes are available.
- Usable as a display enclosure for a unique and luxurious outlook.
- SKL11-5-17 and 11-8-17 models are compatible with the Euro Board.

  SKL18-7-18 and 18-10-18 models are compatible with the Mini ITX board.
- Possible to be used in a flat layout, or a standing layout.
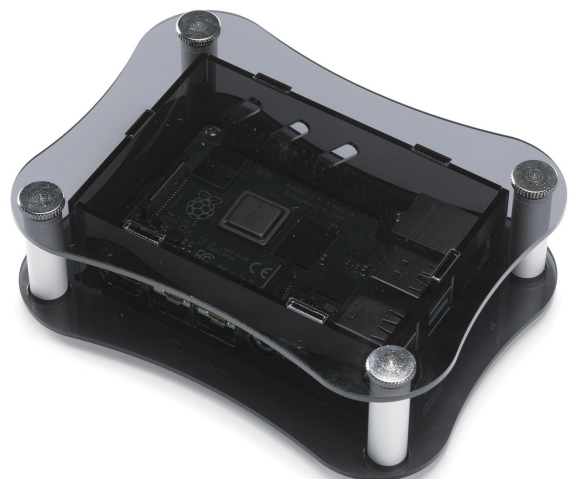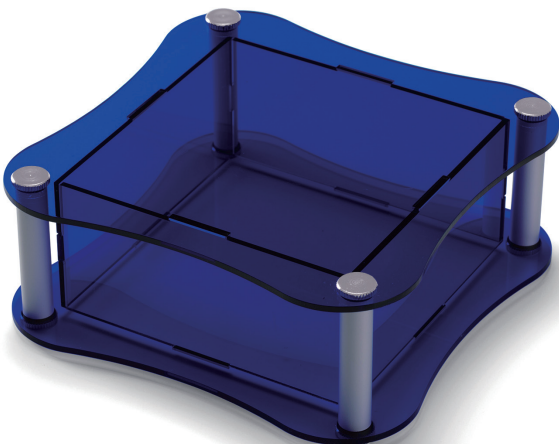- Knurled thumb screws for easy hand assembly.

- Custom sized case are avaialble. See SKLF series catalog pages.

※Ethanol or other alcoholic solvents may cause the acrylic panel to crack. Use a neutral cleaner or specialized acrylic cleaning solvent for cleaning.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Top · Bottom cover	1 each	Acrylic	Transparent
2	W panel	2	Acrylic	Transparent
3	D panel	2	Acrylic	Transparent
4	Pillar	4	Extruded aluminium A6063S-T5	Silver anodized
5	Knurled thumb screw	8	Brass	Nickel plated
6	Rubber feet	4	Polyurethane	Transparent

SKL dimensions

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

H

4-R

W

B

B-B

D

d

A

A

Available range c

Available range b

w

B

Knurled thumb screw dimensions

M3 size

M4 size

Φ12

2.5

8

Φ20

3.5

8

A-A

t

t

Rubber feet dimensions

Φ11.2

Available range a

5.1

Product no. / Dimensions

Product no.	External dimensions			Case dimensions		Available range			R	t	Screw size	Weight (g)
	W	H	D	w	d	a	b	c				
SKL10- 5-10	141	51	141	105	105	101	47	101	25	2	M3	191.5
SKL11- 5-17	165	47	225	107	167	101	41	161	25	3	M4	507
SKL11- 8-17	165	77	225	107	167	101	71	161	25	3	M4	643
SKL18- 7-18	239	67	239	177	177	171	61	171	40	3	M4	762
SKL18-10-18	239	102	239	177	177	171	96	171	40	3	M4	940.5

■ Similar aluminium type design, as well as custom sizes are also available.

Custom sized skeleton case SKLF series
See page SKLF-1 〜 SKLF-4
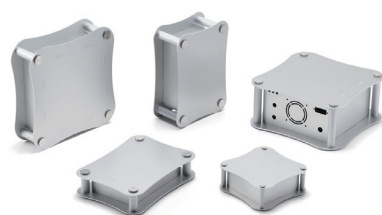
Arc design aluminium case ALR series
See page ALR-1 〜 ALR-4

SKLF SERIES · CUSTOM SIZED SKELETON CASE

NEW ★★
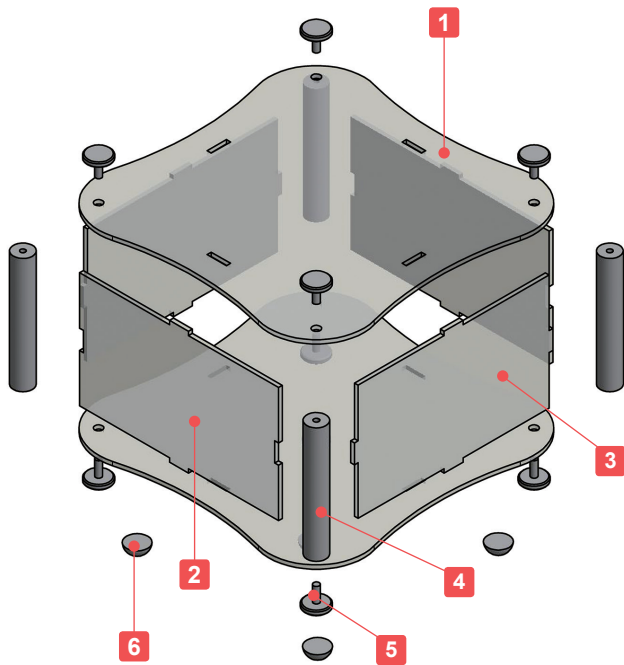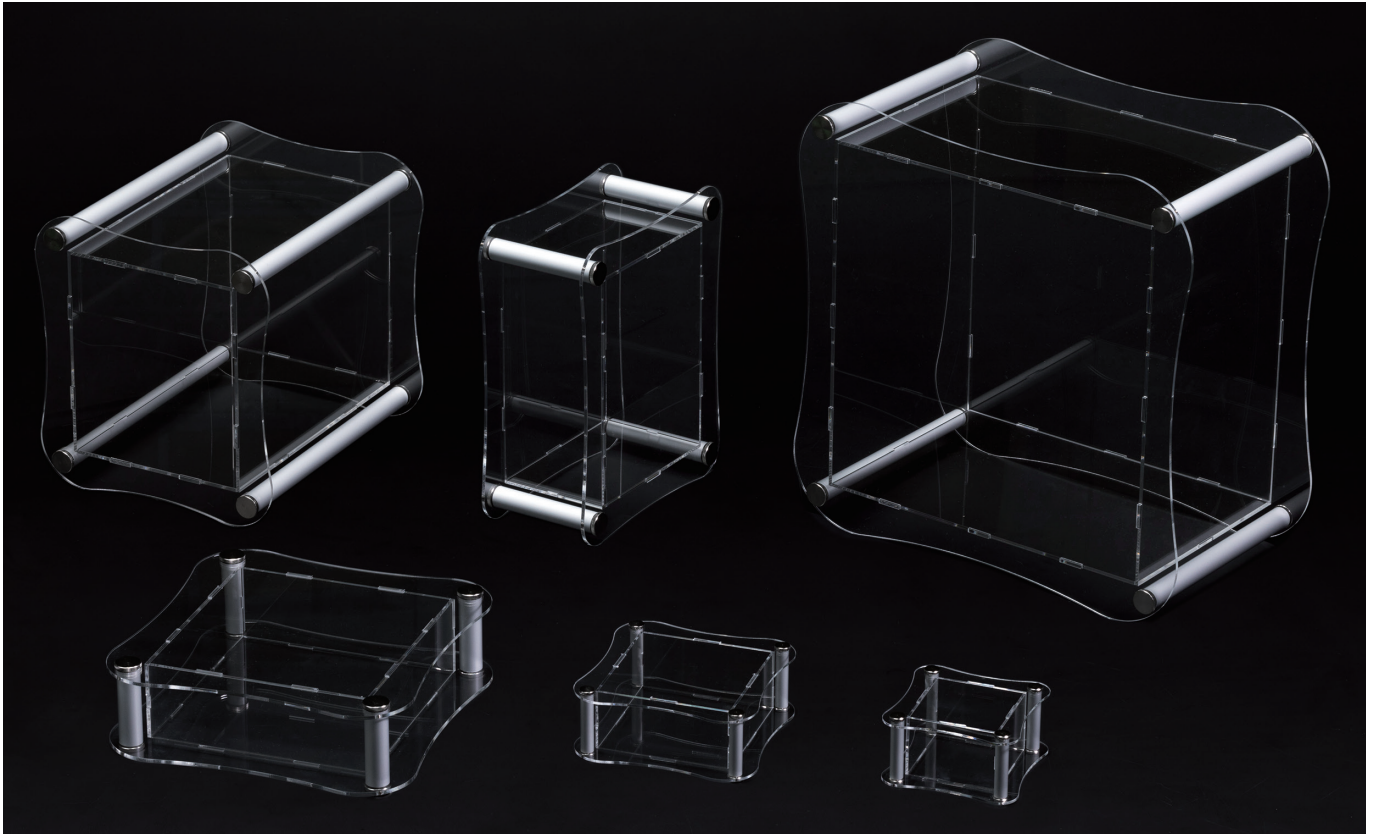
- Adjustable sizes available in 1mm intervals, with W and D dimensions from 50 ~ 500mm, and H dimensions from 30 ~ 500mm.

- Rubber feet can be provided if required in S (Φ11.2mm) or L (Φ15.7mm) sizes.

- Knurled thumb screws for easy hand assembly.

※Ethanol or other alcoholic solvents may cause the acrylic panel to crack. Use a neutral cleaner or specialized acrylic cleaning solvent for cleaning.
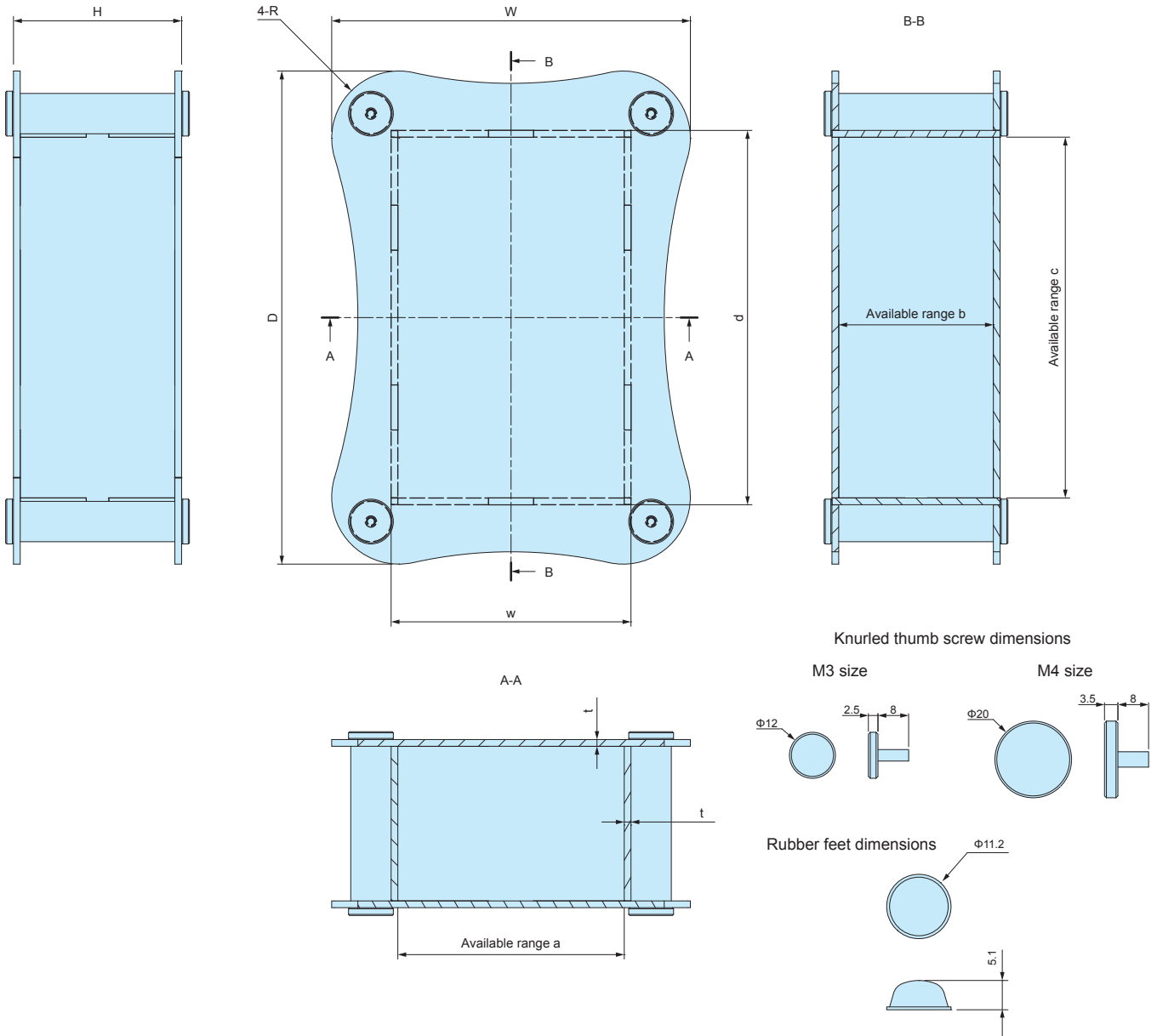
■ Caution

· On larger sized cases, the top cover may come loose if the middle part is held without support.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Top · Bottom cover	1 each	Acrylic	Transparent
2	W panel	2	Acrylic	Transparent
3	D panel	2	Acrylic	Transparent
4	Pillar	4	Extruded aluminium A6063S-T5	Silver anodized
5	Knurled thumb screw	8	Brass	Nickel plated
6	Rubber feet	0 or 5	Polyurethane	Transparent

1 Specify Dimensions

Specify dimensions in 1mm intervals.

※Specify rectangular case dimensions, not external dimensions.
Include panel thickness in H dimension.

W 50~500mm

D 50~500mm

H 30~500mm

■ Panel thickness, knurled thumb screw sizes, and pillar types vary by W / D dimensions.

【S10】Type

Dimension : W & D = refer to chart
Panel thickness : t = 2.0mm
Knurled thumb screw size : M3
Pillar : Φ10.0 (external diameter)

Φ10

【S18】Type

Dimension : W & D = refer to chart
Panel thickness : t = 3.0mm
Knurled thumb screw size : M4
Pillar : Φ18.0 (external diameter)

Φ18

2 Select Rubber Feet

Code	A	H	Pack of
N (None)	—	—	—
S	11.2	5.1	5
L	15.7	7.9	5

Confirm Product No.

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

Product no. SKLF ☐ – ☐ – ☐ ☐ ☐

W **H** **D** **S10 or S18** **Rubber feet**

Example : W = 250 mm, H = 150 mm, D = 300 mm with L type rubber feet.

SKLF | 250 | – | 150 | – | 300 | S18 | L

Order Inquiry

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

SKLF Type Chart

Refer to the below chart for S10 or S18 type selection by W & D dimensions.

【S10】type : t = 2.0mm · M3 screw · Φ10.0 pillar	【S18】type : t = 3.0mm · M4 screw · Φ18.0 pillar

| W	H	D	50〜100	101〜150	151〜200	201〜250	251〜300	301〜350	351〜400	401〜450	451〜500
50〜100	30〜100										
	101〜200										
	201〜300										
	301〜400										
	401〜500		【S10】 type								
101〜150	30〜100										
	101〜200										
	201〜300										
	301〜400										
	401〜500										
151〜200	30〜100										
	101〜200										
	201〜300										
	301〜400										
	401〜500										
201〜250	30〜100										
	101〜200										
	201〜300										
	301〜400										
	401〜500										
251〜300	30〜100										
	101〜200										
	201〜300				【S18】 type						
	301〜400										
	401〜500										
301〜350	30〜100										
	101〜200										
	201〜300										
	301〜400										
	401〜500										
351〜400	30〜100										
	101〜200										
	201〜300										
	301〜400										
	401〜500										
401〜450	30〜100										
	101〜200										
	201〜300										
	301〜400										
	401〜500										
451〜500	30〜100										
	101〜200										
	201〜300										
	301〜400										
	401〜500										

SKLF dimensions
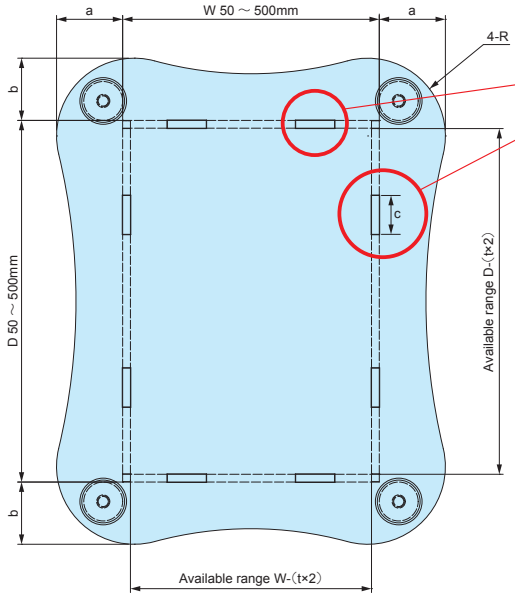
Number of joints vary by specified W / D dimensions.
Refer to the below chart for more information.

W dimension	Joints (one side)
50～150	1
151～200	2
201～300	3
301～400	4
401～500	5

D dimension	Joints (one side)
50～150	1
151～200	2
201～300	3
301～400	4
401～500	5

Joint c dimension = 20.0mm
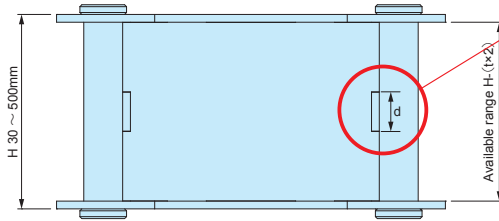
Number of joints vary by specified H dimensions.
Refer to the below chart for more information.

H dimension	Joint d dimension	Joints (one side)
30～100	10mm	1
101～200	20mm	1
201～300	20mm	2
301～400	20mm	3
401～500	20mm	4

D dimension → W dimension ↓	50～100			101～150			151～200			201～250			251～300		
	a	b	R	a	b	R	a	b	R	a	b	R	a	b	R
50～100	17	17	15	17	17	15	29	28	15	29	28	15	30	28	15
101～150	17	17	15	18	18	25	29	29	25	30	29	25	30	29	25
151～200	28	29	15	29	29	25	31	31	40	31	31	40	32	31	40
201～250	28	29	15	29	30	25	31	31	40	33	33	50	33	33	50
251～300	28	30	15	29	30	25	31	32	40	33	33	50	35	35	60
301～350	35	37	15	36	38	25	38	39	40	40	41	50	42	42	60
351～400	35	38	15	36	38	25	38	40	40	40	41	50	42	43	60
401～450	35	38	15	36	39	25	38	40	40	40	42	50	42	43	60
451～500	35	39	15	36	39	25	38	41	40	40	42	50	42	44	60

D dimension → W dimension ↓	301～350			351～400			401～450			451～500		
	a	b	R	a	b	R	a	b	R	a	b	R
50～100	37	35	15	38	35	15	38	35	15	39	35	15
101～150	38	36	25	38	36	25	39	36	25	39	36	25
151～200	39	38	40	40	38	40	40	38	40	41	38	40
201～250	41	40	50	41	40	50	42	40	50	42	40	50
251～300	42	42	60	43	42	60	43	42	60	44	42	60
301～350	44	44	70	44	44	70	45	44	70	45	44	70
351～400	44	44	70	46	46	80	46	46	80	47	46	80
401～450	44	45	70	46	46	80	48	48	90	48	48	90
451～500	44	45	70	46	47	80	48	48	90	50	50	100

SKLF-4