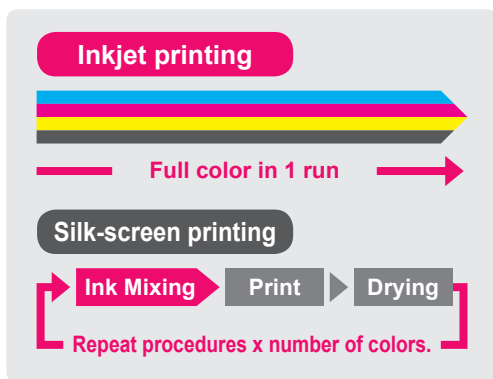


INKJET PRINTING



Full color digitally designed image can be printed in 1 run.
No cost difference regardless of the number of colors used.



Low printing cost
Full color print possible in small quantities

Inkjet printing	1 run only for full color print		
Printing cost Full color			
Silk-screen printing	Printing cost x number of colors		
Printing cost Color 1	Printing cost Color 2	Printing cost Color 3	Printing cost Color 4

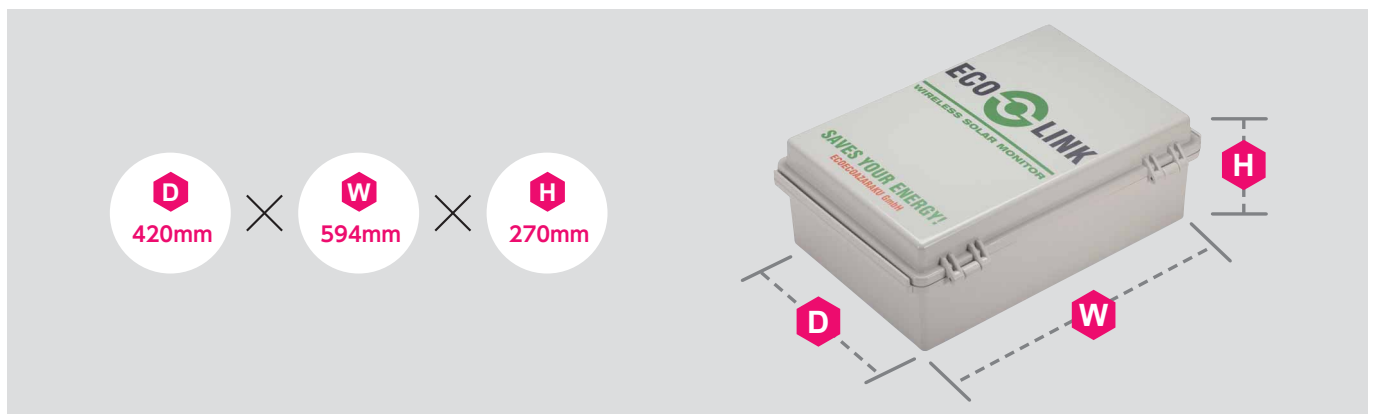
High quality printing of photo image and color gradation.

Print photo images in maximum 1,800 x 1,800 dpi quality.

Pictures, logos and unique designs with color gradation can be recreated in a high quality print.



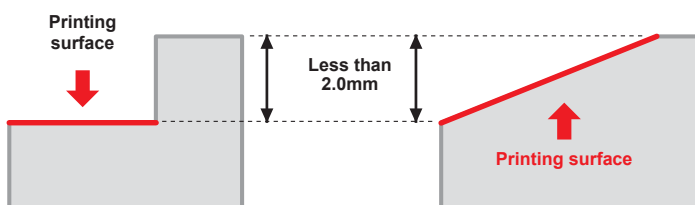
Maximum printable enclosure size



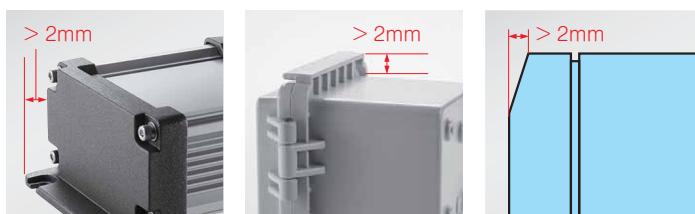
Printable on surfaces with height differential

Printing is possible on recessed, sloped and rounded sections.

Gap difference is less than 2.0mm.



*Not suitable if height difference is more than 2.0mm.



Printed example






PRINT FILE REQUIREMENTS

Recommended data formats

Guidelines for Print File

.ai	.eps	.pdf (1:1 scale)
		

	<ul style="list-style-type: none"> • All text should be outlined. • Color profile in CMYK mode. • Color should be specified in CMYK mode. • Add enclosure print face outline to specify print position.
	<ul style="list-style-type: none"> • All text should be outlined. • Color profile in CMYK mode. • Color should be adjusted accordingly. • Add enclosure print face outline to specify print position. • Transparent effects etc cannot be printed. • Adobe Illustrator software is recommended for editing .eps file.
	<ul style="list-style-type: none"> • All text should be outlined. • Color profile in CMYK mode. • Color should be adjusted accordingly. • Add enclosure print face outline to specify print position. • Ensure that the aspect ratio is correct. • Print data may be distorted if edited using CAD software, or other non-graphics specialized software. • Adobe Illustrator software is recommended for editing .pdf file.

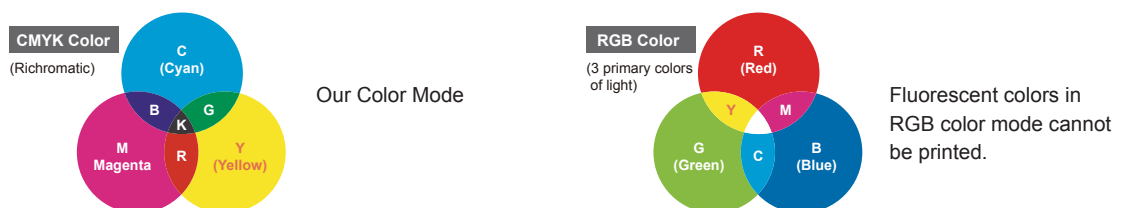
OUTLINING TEXT

"Outlining is a method where normal font/texts are converted to vector graphics. If a typeface that TAKACHI does not have installed is used, the data may be incorrectly printed. Ensure that all text are properly outlined; if not, a similar installed typeface will be randomly chosen."



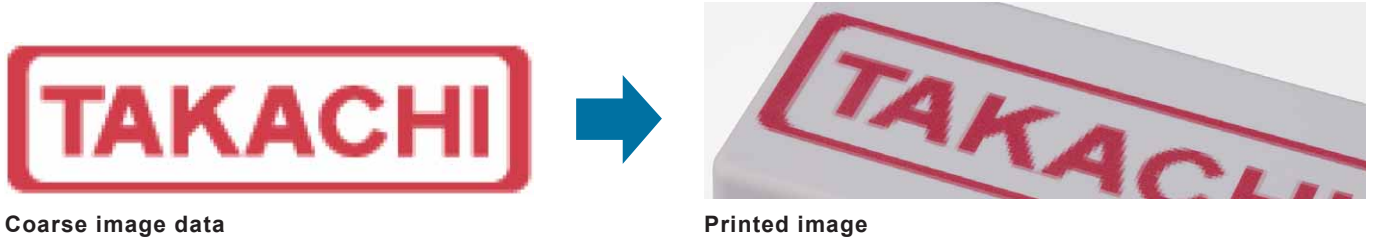
CMYK COLOR MODE

Printing is processed in CMYK + W color mode. Create your print file in CMYK color mode. If RGB color mode is used, print may be darker than actual specified color when converted to CMYK color mode.

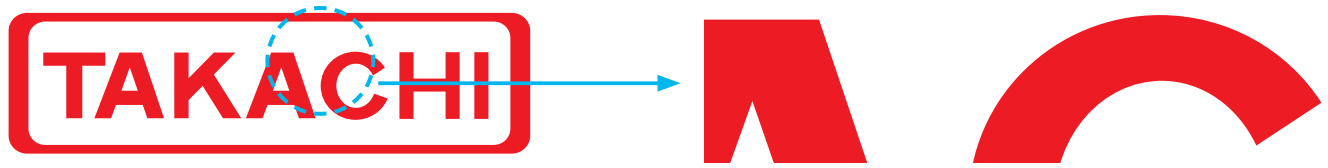


● LOGO and MARKS

Images which are cut and pasted will be pixelated when magnified, or printed.
 To avoid pixelated images, ensure that the data is created with a vector software.
 Additional fees for data creation may be required if print data is not suitable to be used for printing.



[Vector Data] Image clarity remains unchanged even when magnified.



[Raster Data] Image clarity worsens (pixels become visible) when magnified.



● PDF Data

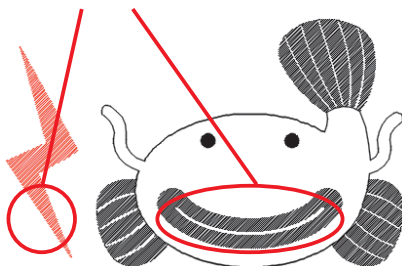
Images on scanned pdf cannot be used for printing.
 Text, shapes etc. have to be embedded in the print file.



If the text has not been embedded properly, the font may be randomly converted.

When converting from a DWG to PDF file, the print quality will be the same as viewing a pdf file on a PC.
 Utilizing Adobe Acrobat (or Acrobat Reader) to convert the data will also yield a similar result.

Created as filled areas, but have white lines through-out.



This will be printed as-is based on received pdf file.



Blurred and jagged contour lines when using acrobat conversion software.

Digital Printed Overlay

Layers

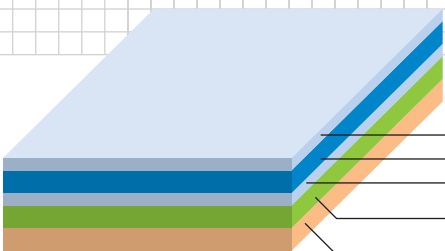
Embossing for buttons can be formed.

Digital full color printed film layer

Laminated film layer

Double-sided tape layer
Standard type
Waterproof type
(Equivalent to IP67)

Waterproof type is equivalent to IP67 protection class. **IP67**



Layer details

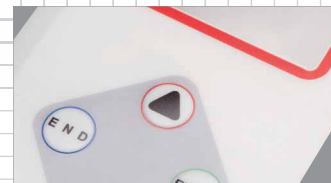
Layer	Material	Thickness	
Protective layer	Polypropylene	0.040mm	
Printed film layer	PET	0.198mm	
Laminated film layer	PET	0.016mm	
Double-sided tape layer	Standard	Acrylic	0.17mm
	Waterproof	Acrylic	0.15mm
Paper liner	Paper	-	

Transparent windows can be made.

Surface finish



Glossy type



Matte type

Glossy type is recommended if transparent window is required.

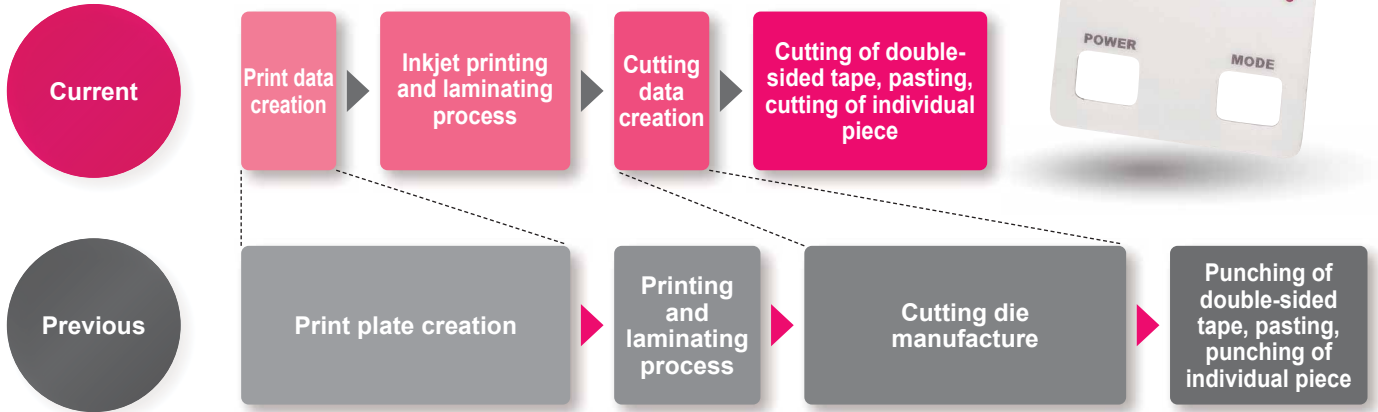
Overview

Advantages

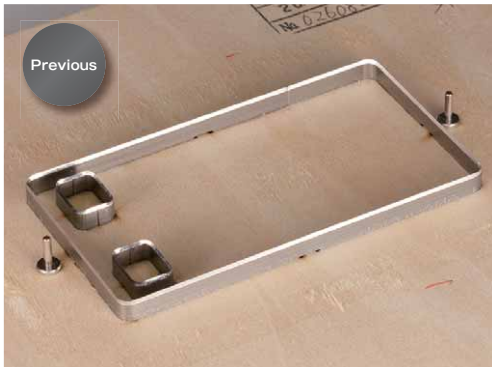


Feature 1 Punch die and print plates can be eliminated.

● Comparison of current and previous manufacturing methods



● Digital cutting plotter machine for sheet cutting

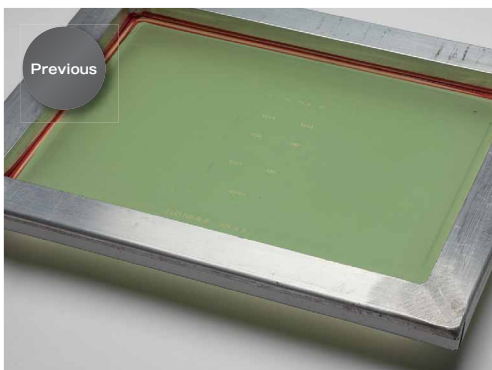


Significant cost is incurred in the preparation and manufacture of the cutting die.

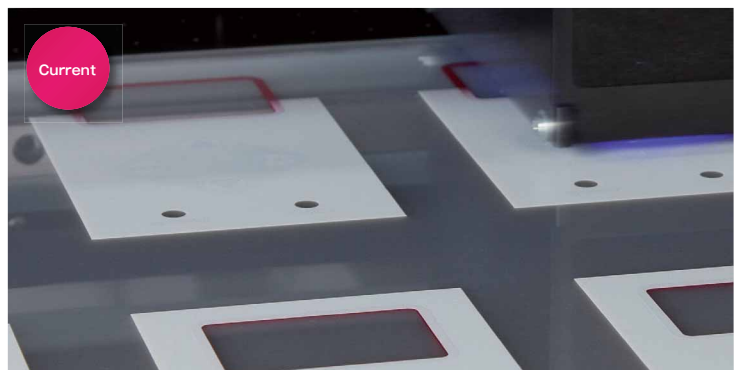


Cutting the sheet to size is made possible via our cutting plotter machine, thus cutting die manufacture process can be eliminated.

● By utilizing inkjet printing, huge initial cost for plate making can be reduced.



Silk-screen plate for each color is required for printing.



Digital inkjet printer can eliminate the print plate creation. No cost difference regardless of print being single, or multi color.

Feature 2 Why are the initial costs low?

3 reasons for low initial costs

Reason 1



Cutting process



Avoiding the cost for cutting die manufacturing via our in-house cutting plotter.

Reason 2

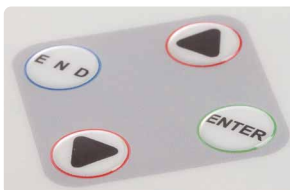


Printing process



Saving the cost for print plates via utilization of our in-house digital inkjet printer.

Reason 3



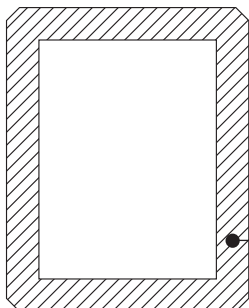
Embossing process



Reducing the cost for the embossing die via our new die manufacturing process.

Feature 3 Waterproof type

Waterproof double-sided tape layer is available.



Conditions : Enclosure must be waterproof type.

Example : WH145-25-N-M2

10mm spacing around the edge is required.

Waterproof type is equivalent to IP67 protection class.

IP67



Recessed top

Recess machining can be done for overlay sheet fitting.



Flat surface



Recess machining



Attaching the overlay sheet.

OVERLAY SHEET EXAMPLES



IP67 HAND-HELD ENCLOSURE
WH SERIES



PLASTIC ENCLOSURE with SILICONE PROTECTOR
TWS SERIES



HAND-HELD CASE with SHOCK-PROOF SILICONE COVER
LCT SERIES



IP67 NETWORK PLASTIC BOX
WP SERIES



PORTABLE PLASTIC CASE
PS SERIES

OVERLAY SHEET EXAMPLES



ALUMINIUM PANEL CASE with CORNER GUARD
EXP SERIES



IP67 ALUMINIUM ENCLOSURE with SILICONE PROTECTOR
AWP SERIES



HIGH-END DESIGN ALUMINIUM CASE
HD SERIES



IP67 FLANGED ALUMINIUM ENCLOSURE
AW SERIES



WATERPROOF PORTABLE CASE
NANO SERIES



DESKTOP ENCLOSURE with STAND HANDLE
MSN SERIES