## **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







#### Maximum printable enclosure dimensions



### **Printable on irregular surfaces**

Printing is possible on recessed, sloped and rounded sections. Print can also be performed on surfaces with a height difference of up to 3.5mm.





#### ATTENTION

The larger the height difference required for printing, the coarser the image quality will become. Image quality may also vary in the same print lot.

Silkscreen printing or laser marking is recommended for height differences exceeding 3.5mm.

#### [A] Without height difference



#### [B] With height difference



Height difference - [within 3.5mm]

Image quality is maintained.



Image quality becomes coarser.





### Non-printable cases

Printing is not possible on silicone covers, rubber products, or with a height difference exceeding 3.5mm.



\*Silkscreen printing, laser marking or engraving is recommended for surfaces where the height difference exceeds 3.5mm.

### • Print • Marking method comparison chart

Methods			Inkjet	Laser marking	Silkscreen	Engraving
Design	Color gradation		0	×	×	×
	Photo image		0	×	×	×
	Multi color		O	×	0	
	Color switch		O	×	×	×
	Fonts		Regular fonts	Regular fonts	Regular fonts	Regular fonts
	Smallest font size		1mm	1.5mm	1.5mm	2mm
Size • Shape	Recessed		0	O		0
	Rounded		O	O	×	×
	Sloped		O	O		0
	Max print area	3D	W594 × D420 × H270	W750 × D750 × H500	W1000 × D1000 × H1000	W560 × D560 × H180
		2D	W594 × D420	W750 × D750	W1000 × D1000	W1000 × D700
Cost	1 pc		0	0		0
	~ 10 pcs		0	0	▲	▲
	~ 50 pcs		0	<b></b>	0	▲
	More than 50 pcs	Mono color	<b>A</b>		O	
		Multi color	0	×	<b></b>	
Quality	Weather resistance		0	0	0	0
	Abrasion resistance		0	0	0	0
Lead time (Subject to change by quantity/details)			10 business days 1	10 business days	14 business days (Initial order)	10 business days
					11 business days (Repeat order)	

 $\bigcirc$  : Very good  $\bigcirc$  : Good  $\blacktriangle$  : Fair  $\bigtriangleup$  : Poor  $\times$  : Not printable

# PRINT FILE REQUIREMENTS

**Guidelines for Print File** 

#### Recommended data formats



Ai	<ul> <li>All text should be outlined.</li> <li>Color profile in CMYK mode.</li> <li>Color should be specified in CMYK mode.</li> <li>Add enclosure print face outline to specify print position.</li> </ul>
EPS	<ul> <li>All text should be outlined.</li> <li>Color profile in CMYK mode.</li> <li>Color should be adjusted accordingly.</li> <li>Add enclosure print face outline to specify print position.</li> <li>Transparent effects etc cannot be printed.</li> <li>Adobe Illustrator software is recommended for editing .eps file.</li> </ul>
PDF	<ul> <li>All text should be outlined.</li> <li>Color profile in CMYK mode.</li> <li>Color should be adjusted accordingly.</li> <li>Add enclosure print face outline to specify print position.</li> <li>Ensure that the aspect ratio is correct.</li> <li>Print data may be distorted if edited using CAD software, or other non-graphics specialized software.</li> <li>Adobe Illustrator software is recommended for editing .pdf file.</li> </ul>

### **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."



Text (Not outlined)



Outlined

### **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.



**Print File-1** 



### 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.



Coarse image data

TAKACH

**Printed image** 

[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.

#### **Print File-2**

# **Digital Printed Overlay**





#### 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.



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.

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

### Feature 2 Why are the initial costs low?

#### 3 reasons for low initial costs



### 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.







#### **Overlay-3**

# **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





PORTABLE PLASTIC CASE PS SERIES

IP67 NETWORK PLASTIC BOX WP SERIES

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TAKACHI
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# **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





WATERPROOF PORTABLE CASE NANO SERIES



DESKTOP ENCLOSURE with STAND HANDLE MSN SERIES