

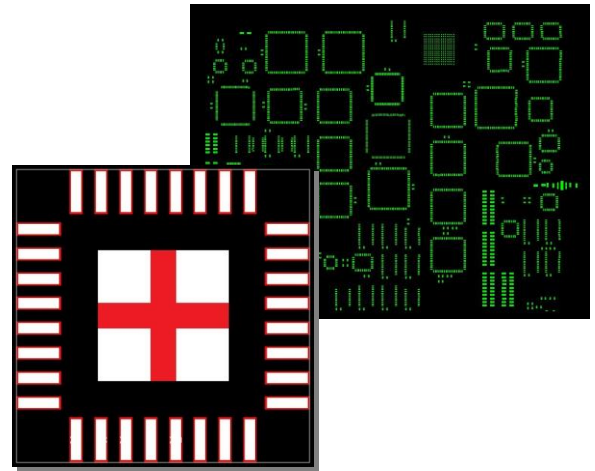
ConvertPLUS STENCIL™

Automated Stencil File Generator

WHAT IS ConvertPLUS STENCIL?

ConvertPLUS STENCIL is a dedicated intelligent Stencil Paste data creation tool. It is designed to complement ScanCAD's family of scanner-based inspection products.

A custom menu and toolbar layout are provided along with all features needed for complete control of solder paste & glue stencil data creation, modification, verification and reporting. Automatic detection and conversion of components using Footprint Libraries and Shape Sets. ConvertPLUS STENCIL is flexible enough to handle unusual data to give you complete control of stencil data generation.



FEATURE HIGHLIGHTS

Master Footprint Libraries

Create Footprint Libraries, Load & Save Footprint Library to use on multiple jobs with optional Password capability

Powerful Paste Shape Editor

Create Shape Sets, Load & Save Shape Sets to use on multiple jobs

Built-in Shapes

Home Plate, Inverted Home Plate, MELF, Bullet, Snub Nose, Dog Bone, Round, Square, Rectangle, Oblong, Ellipse, Triangle, Diamond, Array, Original

Automated Component Footprint Identification

Use one or more of the provided methods:

- **Footprint Library**
Identify by Footprint Library with just one click
- **Package Definitions**
1350+ pre-defined packages and paste shapes
- **Select Footprints**
All like-parts (same Footprint) are automatically found
- **Centroid file**
Centroid converter included

Quick Convert

Quickly modify a shape

Stencil Data Generation

Quickly generate your Paste and/or Glue Layer

Stencil Library Report

Interactive Library Shape Report

Stencil Layer Report

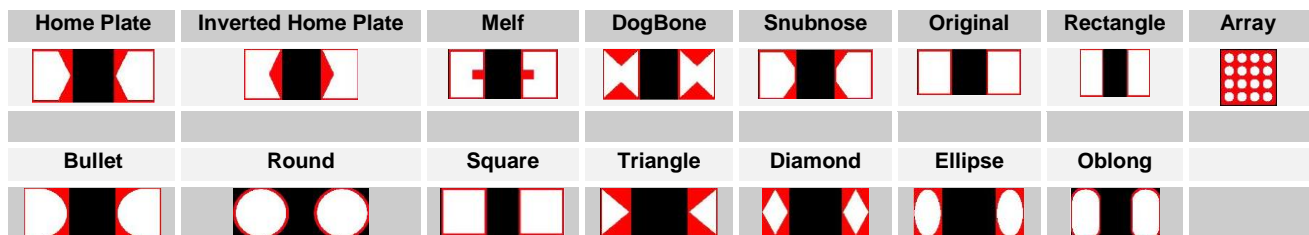
Interactive Paste Layer Report

INFORMATION FEATURES

- **Query Data**
Parts, Layer Features, D-Codes
- **Measure Data**
Point-to-Point, Center-to-Center, Volume, Edge-to-Edge
- **Reports**
Analysis, Apertures, Library Shape Set, Paste Layer Report
- **Redlines/Notes**
Add Notes, Point out problem areas, Markup SMT Paste shapes and much more

Basic File Support	
Import/Export	Import only
Gerber 274D & 274X	GerbTool
IPC2581	PADS ASCII
ODB++	CAM350
DXF	
HPGL/HPGL2	Export only
GenCAD	Postscript
Barco DPG	BMP
MDA Autoplot	Integrated Printing
ASCII Centroid File	

BUILT-IN BASIC SHAPES



POWERFUL MACRO EDITOR

Automation is the ultimate goal in almost any production environment. ConvertPLUS STENCIL comes complete with a full Macro Developer for quick and easy scripting. ConvertPLUS STENCIL offers traditional macro records and playbacks plus full drag-and-drop features that allows anyone to produce high quality macros with ease. The Macro Developer even comes complete with a built-in debugger.

LayerPrepforStencil

This macro should be run prior to using any of the Stencil tools to clean up your data. Removes Stacked Pads, Converts Drawn Pads to Flashes and Converts Custom Apertures to Intrinsic all in one step

Glue_Stencil

Convert the stencil openings designed for paste into openings designed for glue & adhesive printing

QuickText

Assist in the automatic mark-up of SMT pad shapes for stencil design communication & documentation purposes

QuickPanel

Quickly panelize your data for step and repeat patterns

OTHER FEATURES

Undersize and/or round corners

Quickly undersize and/or Round Corners of all pads by layer makes editing very easy.

Quick Convert

Sometimes it just doesn't make sense to create a Footprint for certain data. With Quick Convert you can quickly modify a shape by Area Percentage, Amount or Absolute. Add Corner Radius, Window Pane. Select Destination Layer for the modified data and choose whether to delete original or keep data. Custom Apertures can also be easily modified with Quick Convert.

ANALYSIS

ConvertPLUS STENCIL's Analysis includes Layer Compare, Design Compare, Find Duplicates, Copper Area, Find Non-part Pads, Find Stacked Pads and Pad to Pad Spacing.

POWERFUL PASTE SHAPE EDITOR

Complete control of your paste shapes using the Paste Shape Library.

- Define a shape using one of the standard shapes available.
- Set size by Area Percentage, Amount or Percent
- Increase/Decrease Height/Width, Inset/Protrusion Length, Inset Width, Corner Radius
- Reverse Direction
- Justify the Replacement Shape to Inner/Outer Edges with Offset
- Add Window Pane with control of Gap Size, count Horizontal or Vertical, Gap Angle and add Diagonal Gaps.
- Load & Save Shape Sets to use on multiple jobs.

INTERACTIVE REPORTS

Use the Interactive Report option to help complete your design with full control and knowledge of your process.

With the Library or Paste Layer Report, you can now interactively set the shapes and easily see which parts do not have shapes assigned.

Benefit from the on-the-fly Pitch Rule Testing with color-coded pass or fail per your Pitch Rules.

For easy documentation: Print directly from the Layer Report or Library Report and select which information to include in the output.

DCo...	Shape	X-Size	Y-Size	Pitch	Volume	Area Ratio	Aspect Ratio	Pass	Device
D324	Rectangle	0.007870	0.026570	0.019680	0.000001	0.607165	1.574016	No	Device_123
D597	Rectangle	0.021650	0.010010	0.019690	0.000001	0.684505	2.001969	Yes	RD_SMD16_11
D644	Rectangle	0.021650	0.010010	0.019690	0.000001	0.684505	2.001969	Yes	RD_SMD16_11
D645	Rectangle	0.011050	0.043020	0.019690	0.000002	0.879177	2.210000	Yes	Device_123
D595	Rectangle	0.012950	0.051180	0.025590	0.000003	1.033496	2.590000	Yes	Device_111
D501	Rectangle	0.012990	0.012990	0.031490	0.000001	0.687964	2.598031	Yes	RD_THD96_3
D643	Rectangle	0.012990	0.012990	0.031490	0.000001	0.687964	2.598031	Yes	RD_THD96_3
D759	Rectangle	0.017990	0.053150	0.031490	0.000005	1.344075	3.598031	Yes	RD_SMD40_5
D761	Rectangle	0.017990	0.064960	0.031490	0.000006	1.408846	3.598031	Yes	RD_SMD40_5
D46	Rectangle	0.021650	0.035430	0.037400	0.000004	1.343831	4.330000	Yes	RD_SMD6_10
D46	Rectangle	0.021650	0.035430	0.037400	0.000004	1.343831	4.330000	Yes	RD_SMD5_4
D11	Square	0.017720	0.017720	0.039370	0.000002	0.886004	3.544016	Yes	RD_THD2_3

Layer: 5 Area Ratio Limit: 0.66 Aspect Ratio Limit: 1.50 Thickness: 0.005000

Save... Print Quick Convert... Pitch Table... Pitch Check: Ignore 2 pin parts Close

All specifications and designs subject to change without notice.

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