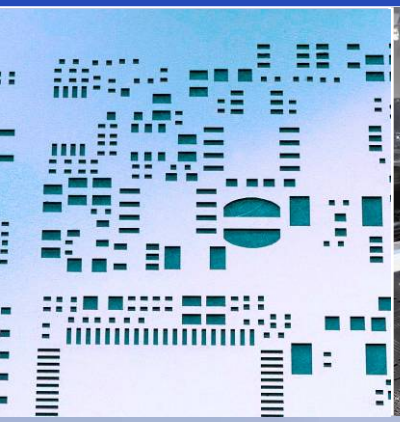
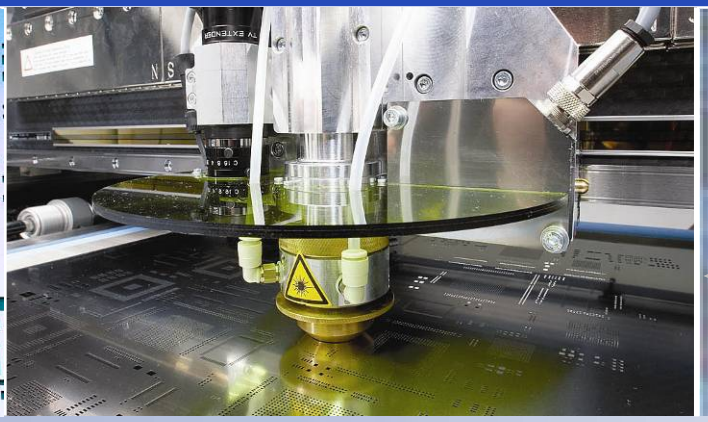
LPKF Laser & Electronics





LPKF CircuitCAM 6.1 Stencil

The New Software Interface for your LPKF StencilLaser

- **Higher speeds – greater efficiency**
  - **50% faster computing time**
  - **Optimized paths – 20% shorter distances between apertures**
- **New look – easy to follow and user friendly**

Windows XP & Vista

CircuitCAM 6.1 does everything easier, faster and more effectively: importing data from CAD programs, calculating production data, and controlling the StencilLaser.

LPKF CircuitCAM 6.1 – Productivity Counts

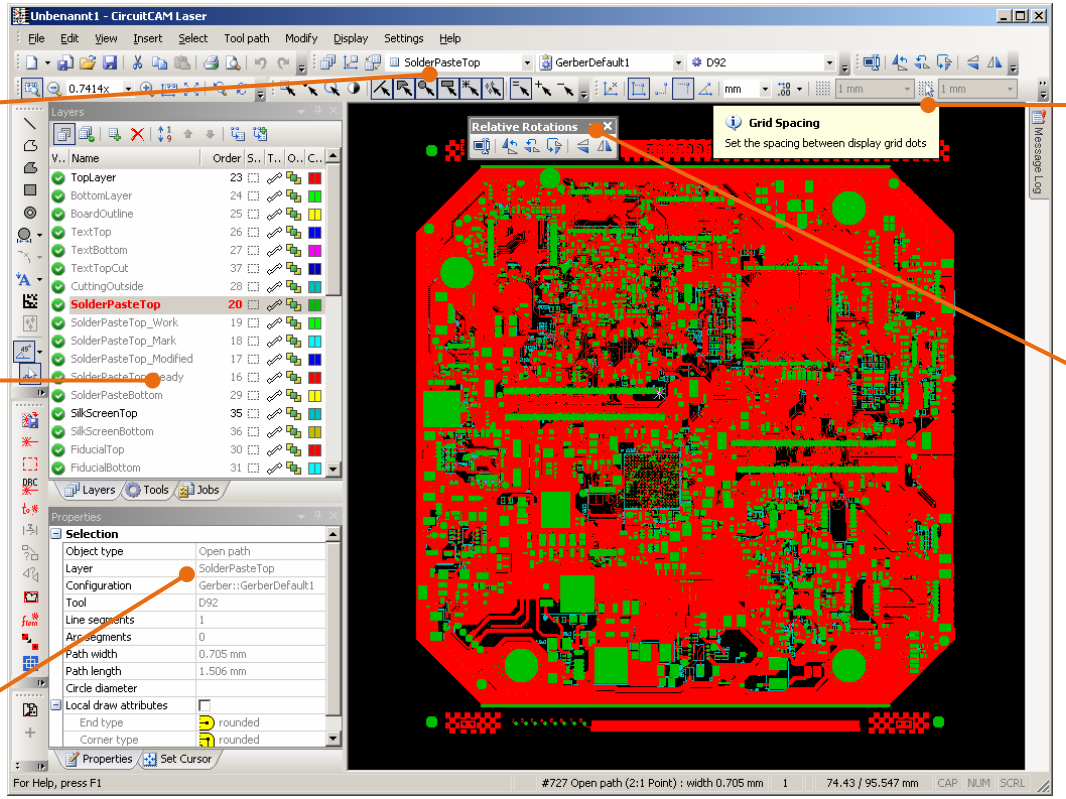
Short Learning Curves - Fast Results:

CircuitCAM 6.1 makes life even easier for users: the enhanced program interface boosts user friendliness further: thanks to the intuitive user interface, draft layouts for SMT stencil can be modified easier than before. Create a more functional CircuitCAM workstation – to precisely satisfy your needs!

User-Defined Toolbar:
Symbol bars and toolbars can be customized to the needs of each user.

Matching Lists:
Show dockable lists for the tool, layer and job configurations.

Dockable Dialogs:
Dockable property dialogs for direct access to all project data.



Tool Tips:
Small windows in the graphic user interface simplify user orientation, and help identify functions.

Toolbar
For rotating and mirroring

Other Functions:

- Simple zooming via mouse wheel
- Invert selections

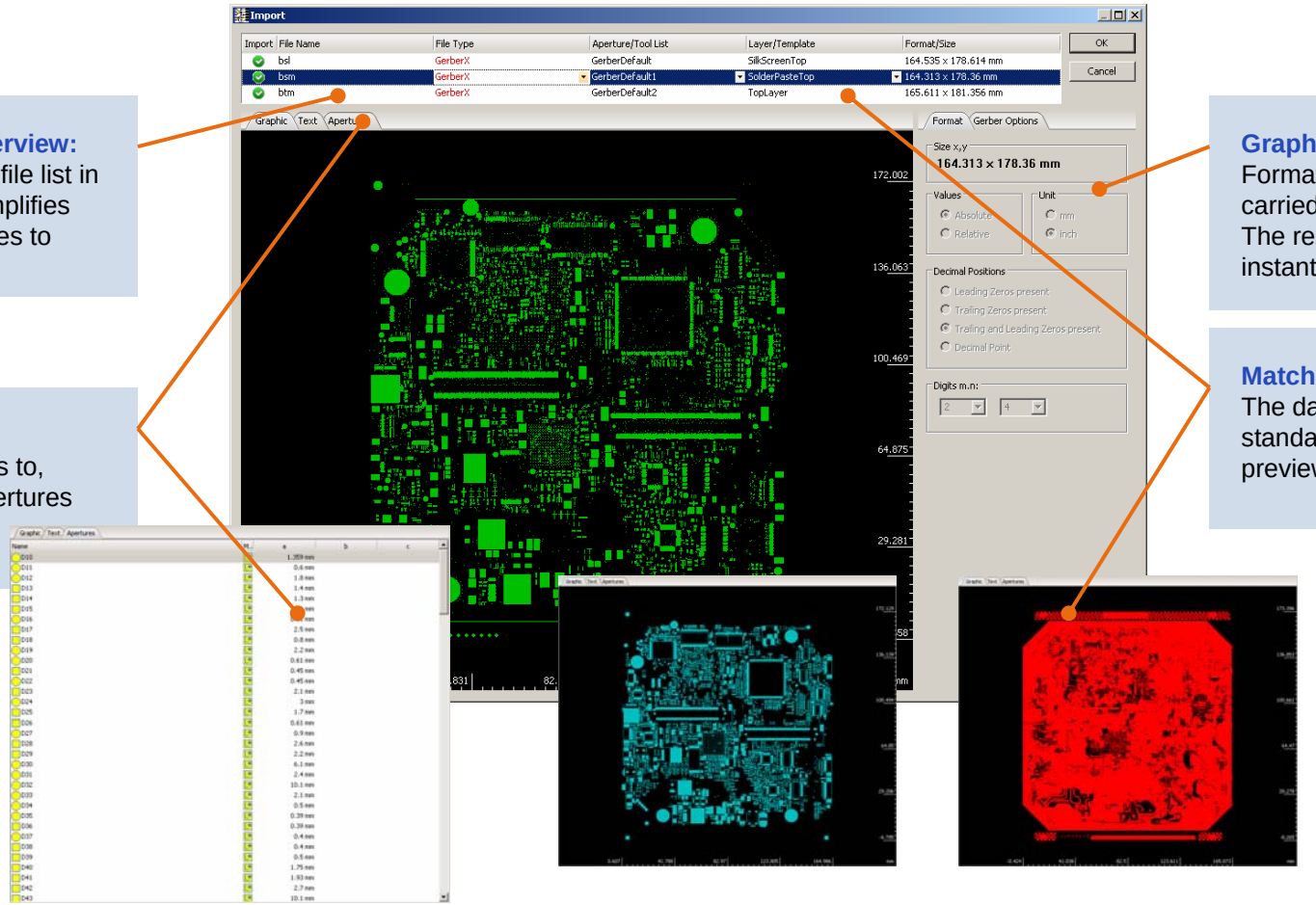
LPKF CircuitCAM 6.1 – Import Dialog

Precise Preparation - The New Import Dialog:

Get results faster: CircuitCAM 6.1 reduces the number of working steps in the new import dialog.
Visualising all the layers prior to import not only speeds up the preparation phase, it also increases transparency and flexibility.

Complete Data Overview:
The comprehensive file list in the import dialog simplifies the assignment of files to layers .

Open Layout View:
Rapid control; thanks to, graphic, text and apertures tool view



Graphic Preview:
Format corrections can be carried out prior to import. The result is displayed instantly in the preview zone

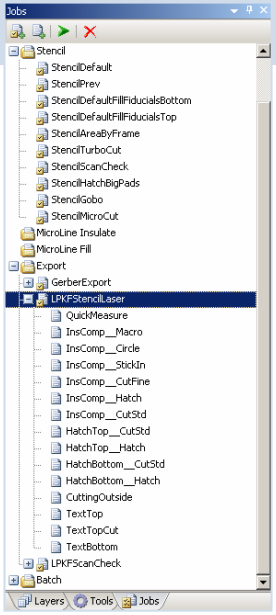
Matching Colors:
The data is shown in standard colors within the preview and in the program.

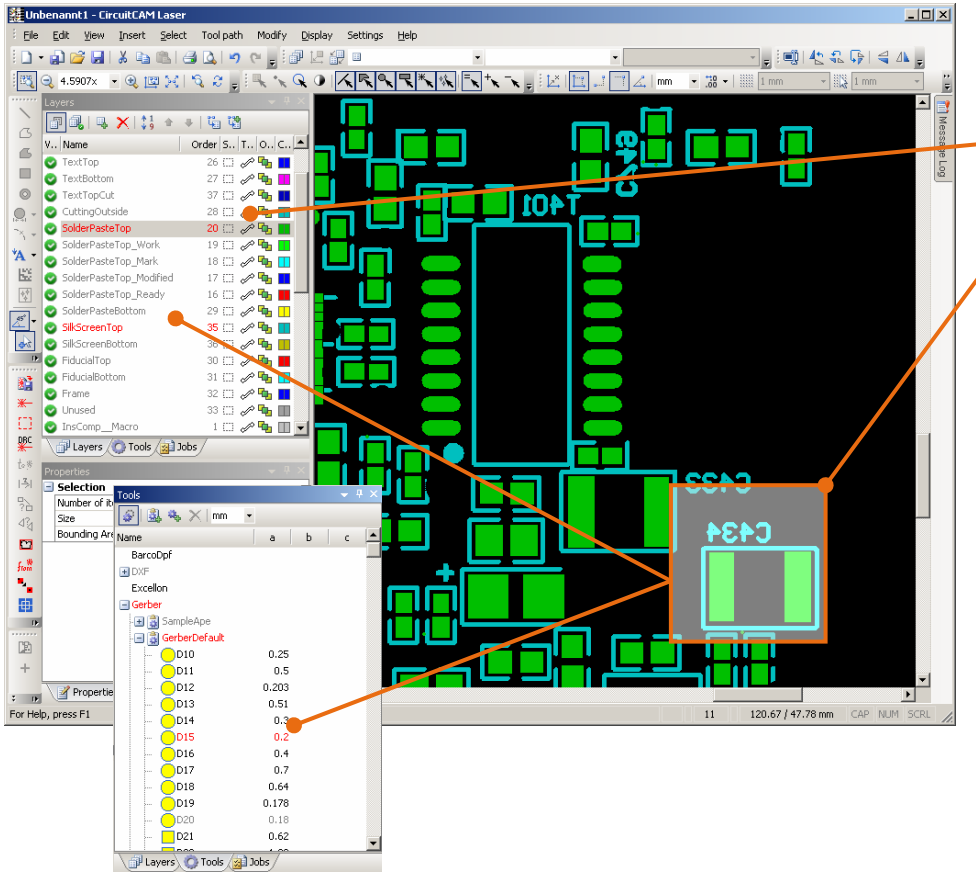
LPKF CircuitCAM 6.1 – Keeping Everything in Sight

Clear Color Coding

Enhances legibility and avoids confusion – ensuring fast and safe progress. When multiple objects are selected CircuitCAM highlights the layers and tools involved.

Everything at a Glance:
The jobs list view speeds up access to job configurations.





Seeing What You are Doing:
CircuitCAM also highlights all of the layers and tools involved with the marked items in the list window.

Identical colors ensure rapid identification of the tools and items with the relevant layers.

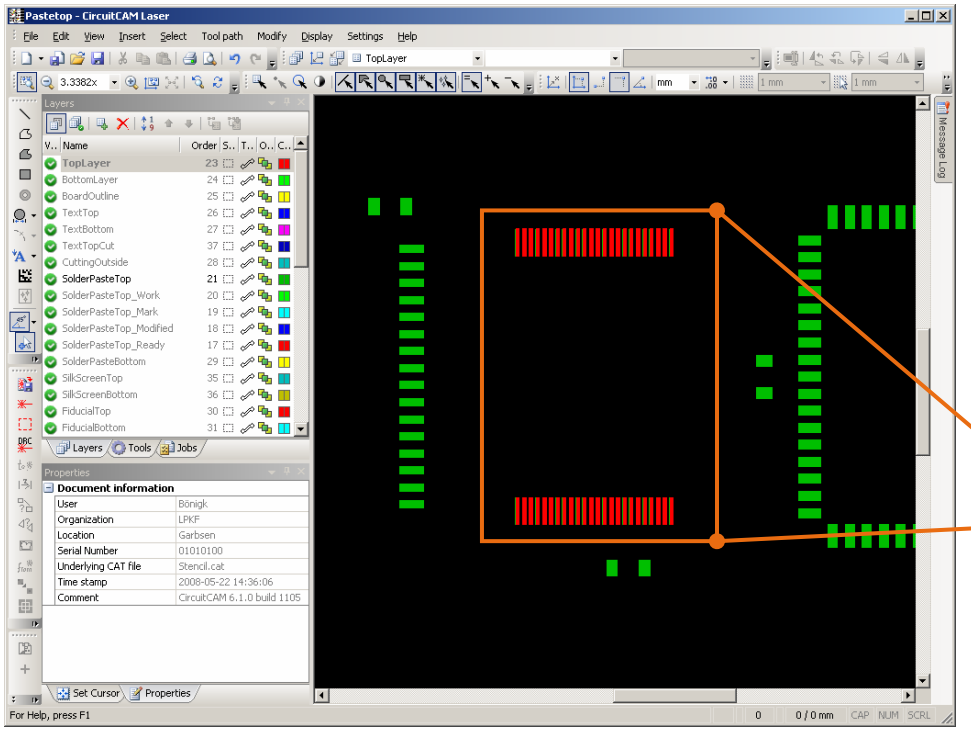
New Functions:

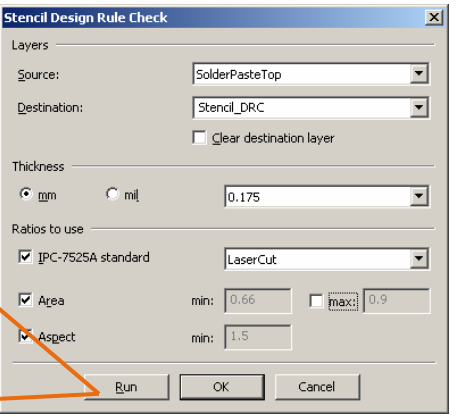
- The layer being worked on is always in view
- Several layers can be selected at the same time
- Masking out layers
- Fast shifting between separate layers
- Move items between layers with a click of the mouse

Quality – Ensure Good Paste Release

You Define the Design Rules

CircuitCAM will highlight the critical apertures.

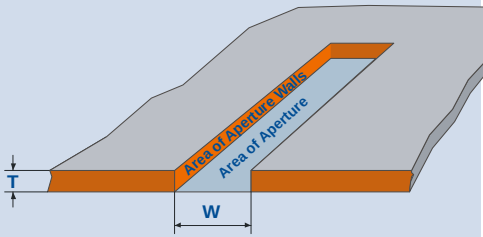




Design Rule Check for Stencils

Follow the IPC-7525A Stencil Design Guidelines or define your own rules

- **Check Area Ratio**
  Area of Aperture / Area of Aperture Walls
- **Check Aspect Ratio**
  Width of Aperture / Thickness



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Specifications LPKF CircuitCAM 6.1

Variant	LPKF CircuitCAM Edit	LPKF CircuitCAM Laser
Import formats	Gerber Standard (RS-247-D), Gerber Extended (RS-247-X), Excellon, Sieb&Meyer, HPGL, Barco DPF, DXF, ODB++	
Supported shapes	Circle, square, rectangle, rounded rectangle, beveled rectangle, oblong, octagon, marker, IEC 61182 (1000-1030) including thermal reliefs, fiducials etc., special (arbitrary definable).	
Export formats	Gerber Standard (RS-247-D), Gerber Extended (RS-247-X), Excellon, HPGL, DXF	LPKF StencilMaster (LMD), Gerber Standard (RS-247-D), Gerber Extended Gerber (RS-247-X), Excellon, HPGL, DXF
Editing functions	Move, duplicate, rotate (any angle), mirror, delete, extend/sever lines, expand/shrink lines, parallel shifting lines/segments, line/path conversion to polygon (filled), polygon conversion to line/path (outline), close/link open paths	
Special functions	Geometry Manipulation Center: Library based editing apertures in shape and size for stencil solder printing, Contour routing path generator with breakout tabs, volume operations, joining/separating objects, Draw to Flash, Step & Repeat (multiple PCB), polygon cut-out, ground plane generation with defined clearance, batch functions, programmable hot keys	
Display functions	Zoom window (freely definable), zoom in/out (mouse wheel/keyboard), overview, redraw, individual layers selectable/visible, panning (keyboard), layer objects in solid/outline/center line, display, 16 pre-set colors (up to 16 million available), different color for pads and track of the same layer, individual colors for different tools	
Selection functions	Single object, groups of objects, objects by layer, objects by tool, all objects, objects by type: line, rectangle, circle, polygon, flash (multiple choice and restriction to specific layer possible), objects by pitch, invert selection.	
Graphic functions	Create line, open/closed path, polygon, rectangle, circle, pad/hole (flash), text (TTF and TTC), data matrix code	
Control functions	Measuring, Design Rule Check for stencils according IPC 7525A, determine pitch	
Tool path methods		Generates tool path inside or outside of objects with tool compensation, freely definable length and location of lead in, XY parallel/concentric hatching/filling of objects
Languages	English, German, French, Spanish	
Hardware and soft-ware requirements	Microsoft Windows 2000/XP/Vista, P4-processor or better, min. 512 MB RAM, screen resolution min 1280 x 1024 pixel or better.	