LPKF CircuitPro PM

Software Suite for All Circuit Board Plotters of the S- and D-Line

All LPKF circuit board plotters include powerful system software for converting layout data into actual printed circuit boards: it takes the data from the design software, edits it for production, breaks it down into individual process steps and guides the user, step-by-step, through the manufacturing process.

LPKF CircuitPro will import all data exchange formats, offers extensive editing options and controls the circuit board plotters. In addition the software produces stencils for solder resist masks and assembly prints. LPKF CircuitPro Lite is a simpler version of LPKF CircuitPro for entry level LPKF circuit board plotters.

Powerful yet user friendly: LPKF CircuitPro

Powerful yet user friendly: these two attributes were at the top of the list of requirements for developing the new LPKF CircuitPro system software. Even less experienced users can fabricate complex circuit board prototypes with the well-thought-out user interaction and helpful wizards. The sophisticated functions for calculating control commands are hidden behind a simple control concept.

The software processes precisely the data required by circuit board manufacturers.CircuitPro automatically imports aperture tables and tool lists, Gerber and NC data. The wizard controls LPKF CircuitPro according to the data entered and suggests the most efficient production method. For example galvanized throughplating requires the structuring process to be carried out after the PCB has been galvanized – which the wizard considers.

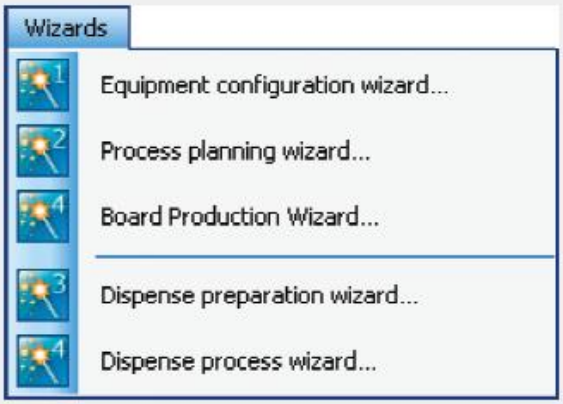
Once jobs have been defined they can be saved and quickly be opened again for additional production runs. A 30 day trial version of the LPKF CircuitPro software is available upon request.

LPKF CircuitPro: Technical Data

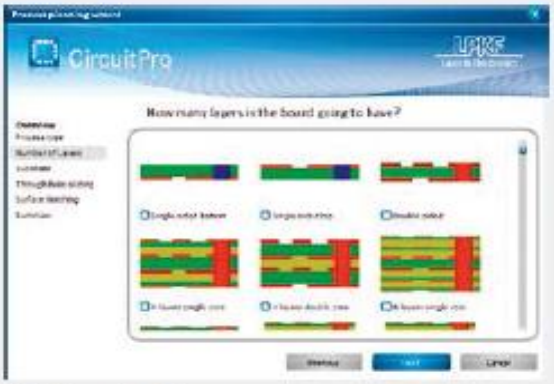
Import formats	Gerber Standard (RS-274-D), Extended Gerber (RS-274-X), Excellon NC Drill (Version 1 and 2), Sieb & Meier NC Drill, HP-GL™, DPF, Auto-CAD™ DXF, ODB ++R
Supported shapes	Circle, square, rectangle (also rounded or angled), octagon, oval, step, special (arbitrary definable)
Export formats	LMD
Editing functions	Original modification, relocating, duplicating, rotating, mirroring, erasing, extending/severing lines, line/ path extension/shortening, line path/segment parallel shifting, line path/object polygon conversion (Fill), curve linking/closing
Special functions	Routing path generator with breakout tabs, joining/ separating objects, step & repeat (multiple PCB), polygon cut-out, ground plane generation with defined clearance
Display functions	Zoom window (freely definable), zoom in/out, overview, redraw, individual layers selectable/visible, panning (keyboard), layer in solid/outline/center line display, 16 pre-set colors (up to 16 million freely available), different colors for tracks and pads of the same layer, different colors for insulation tools
Marker functions	Single element, total layer, all layers, pad groups, selection and limiting to specific layers possible for lines/ polygons/ circles/ rectangles/ pads/holes (multiple choice and restriction to specific layers possible)
Graphic functions	Lines (open/closed), circle, polygon, rectangle, pad, hole, text (TTF, TTC)
Control functions	Measuring, design rule check
Insulation methods	Single, insulation method, additional multiple insulation of pads, removal of residual copper spikes (spike option), milling out of large insulation areas (rub-out), concentric or in serpentines maintaining minimum insulation spaces, inverse insulation
Insulation tools	all
Languages	English, German, French, Spanish, Japanese and Chinese
Hard-/software requirements	Microsoft® Windows® 2000 or higher, 1,2 GHz Prozessor or better, min. 512 MB RAM, screen resolution. min. XGA
Supplied with	LPKF ProtoMat S63, S103, D104

Intelligent assistants

The LPKF CircuitPro wizards will confidently and quickly guide even occasional users through the entire process. They help with preparing data and show required user interaction. This reduces training time and yields quick results.



Process wizard guides you through the production of multilayer PCBs:



1. Select number of layers

2. Select substrate

3. Set throughplating method

4. Select solder resist mask and assembly print

The wizard controls LPKF CircuitPro according to the data entered and suggests the most efficient production method. For example galvanized throughplating requires the structuring process to be carried out after the PCB has been galvanized – which the wizard considers.