

LPKF Presents New PCB Systems

New circuit board plotters and through-hole plating solutions to be shown at embedded world

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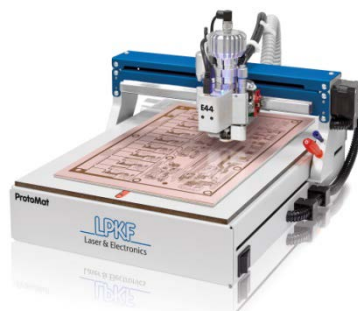
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Breaking news from the development department of prototyping specialist LPKF Laser & Electronics: The company will present two new circuit board plotters and an optimized laboratory system for reliable galvanic through-hole plating at the embedded world trade fair.

Getting you from idea to printed circuit board in just one day – LPKF provides laboratory solutions for everything from board structuring to assembled single-sided, double-sided, and multilayer PCBs. The application specialists will present these processes as well as the latest developments in the field at Booth 519 in Hall 1.

Circuit Board Structuring with ProtoMat E34 and ProtoMat E44

LPKF's two circuit board plotters ProtoMat E34 and ProtoMat E44 are low-cost systems for the mechanical milling and drilling of circuit boards out of fully coated base substrates. Both systems have been designed for training purposes or occasional use. The ProtoMat E44 features an increased spindle speed and a camera for read-in of the material position. This enables production of double-sided PCBs with micron-level precision and exact control of the milling channel width. The two circuit board plotters require only a power outlet and a dust extraction unit for operation.



ProtoMat E34 and ProtoMat E44: LPKF quality at an entry-level price

Homogeneous Galvanic Through-hole Plating with the LPKF Contac S4

For double-sided and multilayer PCBs, through-hole plating is indispensable. LPKF offers a riveting system, paste-based through-hole plating with the use of a vacuum table, and a compact galvanic laboratory system.

The latter was adapted to meet continuously rising demands on PCBs and extended to include an additional bath. The LPKF Contac S4 also enables reliable through-hole plating on a laboratory scale, thanks to a cleaning step for microvias. The compact station, which can be equipped with up to six baths, generates through holes with aspect ratios of up to 1:10, even on multilayer boards with up to eight layers. The tolerance in layer buildup is a mere ± 2 microns. An additional tin-plating step improves solderability. A new, highly intuitive operating concept improves the user-friendliness and guides the user safely through the process.



The LPKF Contac S4 combines six baths into a single compact system for reliable through-hole plating.

Expanded Process Window Through Green Laser Light Source

With the ProtoLaser S4, LPKF presents the state of the art in laboratory lasers for PCB processing. This laser system is equipped with a laser source in the green part of the light spectrum for improved control of the structuring process for fully coated base materials. With a camera system and new system software, these laser systems offer a wider range of applications as well as greater ease of operation and better performance. The ProtoLaser S4 can generate precise structures in the ultrafine conductor range with a pitch of just 65 microns (trace/space of 50 microns/15 microns).

Thanks to the homogeneous galvanic through-hole plating provided by the LPKF Contac S4, processing of double-sided boards has become much easier.



The LPKF ProtoLaser S4 is designed for structuring PCB prototypes.

Visit LPKF at Hall 1, Booth 519, to get an overview of the latest and most powerful form of environmentally friendly PCB prototyping.