Create printed circuit boards easily in-house

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LPKF shows at Embedded World 2018, Nuremberg, how this can be realized

Many developers dream of having a finished printed circuit board in their hands just a few hours after the first idea. At Embedded World 2018 in Nuremberg, the laser technology specialist LPKF Laser & Electronics will be demonstrating how quick and easy in-house prototyping can be implemented.

The prototyping of printed circuit boards is usually carried out in three steps: The circuit design with the transfer to a printed circuit board layout is followed by the production of the printed circuit board with the circuit diagram. The third step is the assembly. A compact LPKF production line makes it possible to go through all these steps without chemical etching.

Using this production line, PCB prototypes or small series can be produced directly on site. It is therefore no longer necessary to place an order with an external service provider. This saves time - and gives more freedom to react flexibly to new ideas.

The **LPKF ProtoMat S103** circuit board plotter, for example, can be used to create the circuit boards. If required, it performs further processing steps such as drilling holes for through-plating of double-sided circuit boards or multilayer boards. The machine also separates individual PCBs from printed circuit boards or mills the front panels for high-quality housings. This saves a lot of time.

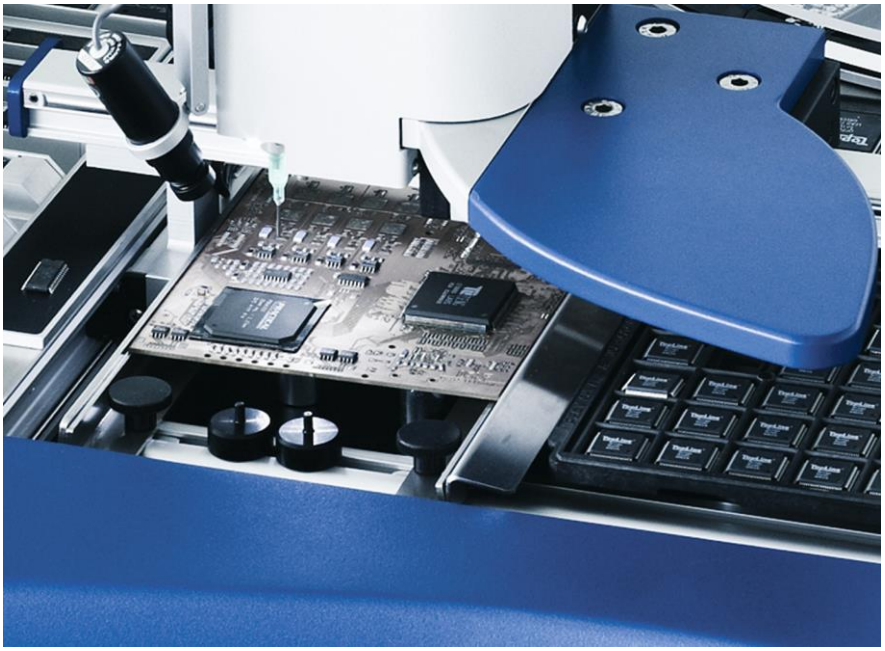
The structuring may also be carried out by using laser technology. The **LPKF ProtoLaser S4** structures printed circuit boards easily, fast and very precisely. The machine processes rigid or flexible substrates - and even galvanically plated boards with greater copper inhomogeneity.

LPKF also offers systems for the subsequent assembly of printed circuit boards so that PCB production can be completed on site. The stencils produced with ProtoMat or ProtoLaser are held precisely in position by the stencil printer **ProtoPrint S** when printing solder paste. The semi-automatic pick & place system **LPKF ProtoPlace S** supports the assembly process. The user is guided through the individual working and setting phases via a LCD display. A camera system enables convenient position-

ing control. The final reflow soldering is done with the **LPKF ProtoFlow S**.

The **LPKF CircuitPro** software, which combines data preparation with system control, ensures consistent, transparent processes and precise results.

Figure 1:



The assembly of the finished printed circuit board is carried out with the help of the LPKF ProtoPlace S.

About LPKF

LPKF Laser & Electronics AG manufactures machines and laser systems used in electronics fabrication, medical technology, the automotive sector, and the production of solar cells. Around 20 percent of the workforce is engaged in research and development.