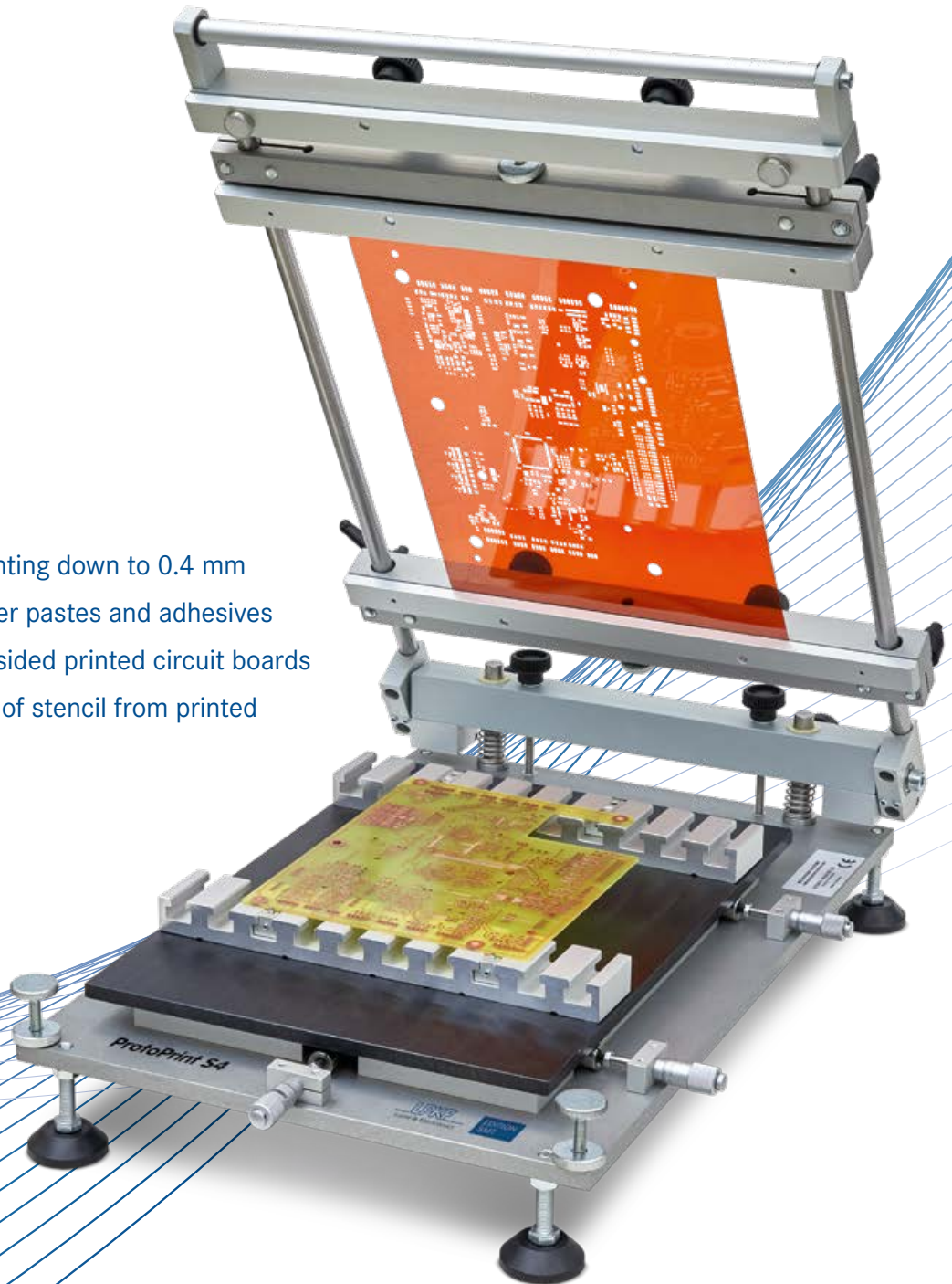


SMT Stencil Printer for PCB Prototypes

LPKF ProtoPrint S4

- SMD fine-pitch printing down to 0.4 mm
- Application of solder pastes and adhesives
- Printing of double-sided printed circuit boards
- Parallel separation of stencil from printed circuit board



SMT Stencil Printer for PCB Prototypes

Reproducible Solder Paste Printing in the Lab

For populating PCBs with tiny SMD components, developers depend on precise application of solder paste. With stencil printing, a large number of widely varying solder deposits can be produced reliably and quickly in a single pass.

The ProtoPrint S4 from LPKF offers a manual stencil printer for achieving precise printing results. The device is suitable for single-sided and double-sided printing of PCB prototypes and low volumes. The ProtoPrint S4 uses stainless steel stencils. Thanks to the integrated clamping frame the ProtoPrint S4 uses stencils made of polyimide film or stainless steel. The squeegee material is defined according to the given stencil material.

LPKF stencil printers offer high positioning accuracy, SMD fine-pitch printing, adjustable print height, and quick clamping of the stencil frames. The flat base plate offers adequate space for accommodating magnetic PCB holders. Fine-positioning of the PCB is accomplished via three micrometer screws on the plate for X, Y, and theta axis control.

The LPKF CircuitPro software can be used to generate optimized data for a perforated polyimide film stencil from the PCB layout data. An LPKF ProtoMat conveniently mills out the stencil, and after a few short minutes the solder paste can be printed.



LPKF ProtoPrint S4	
Max. print area	300 mm x 240 mm (11.8" x 9.4")
Max. material size	250 mm x 250 mm (9.8" x 9.8")
Max. stencil size	395 mm x 280 mm (15.5" x 11")
Min. stencil size	100 mm x 100 mm (3.9" x 3.9")
Height (Z) adjustment	0 mm - 22 mm (0" - 0.86")
Squeegee	Manually operated (metal or rubber)
Print table adjustment X/Y, theta	±7 mm; ±2° (±0.27"; ±2°)
Device accuracy	±10 µm (±0.4 mil)
Dimensions	530 mm x 370 mm x 130 mm (20.8" x 14.6" x 5.1")
Weight	20 kg (44 lbs)

