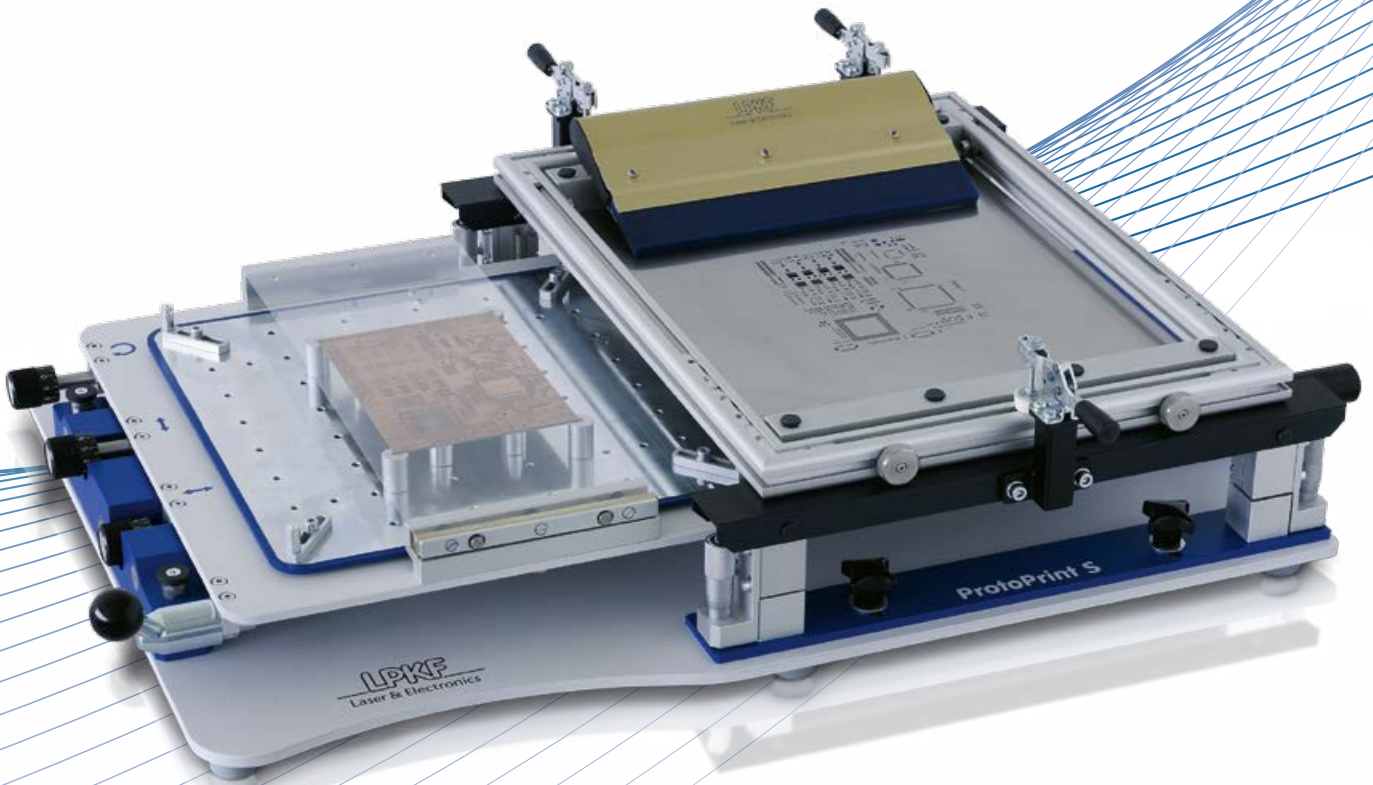


SMT Stencil Printers

LPKF ProtoPrint S and ProtoPrint S RP

- SMD fine-pitch printing down to 0.3 mm
- Screen printing, gluing, test film printing
- Printing of populated double-sided boards
- Parallel separation of stencil and board



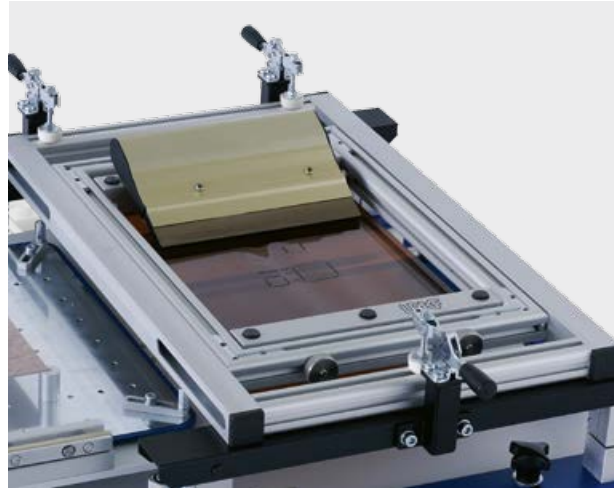
Reliable Solder Paste Printing

When mounting tiny SMD components on boards, the developer needs to be able to rely on precisely applied solder paste. A large number of solder deposits can be achieved reliably and rapidly with stencil printing.

With the ProtoPrint S, LPKF offers a precise manual stencil printer for SMT prototypes and small batches. The ProtoPrint S uses stainless steel stencils, whereas the ProtoPrint S RP has an integrated Zelflex clamping frame to allow the additional use of polyimide film. Polyimide film stencils can be manufactured easily with any LPKF ProtoMat.

The LPKF stencil printers offer high positioning accuracy, SMD fine-pitch printing, adjustable printing height, speed-controlled parallel separation of stencil and board, and easy tensioning of the stencil frames.

Before PCB production a print can be made on a test film – for easily checking the print result and fine-tuning with micrometer screw gauges.



LPKF ProtoPrint S with a polyimide stencil. Metal stencils can be used as well (cover picture).

	LPKF ProtoPrint S	ProtoPrint S RP
Frame dimensions	<ul style="list-style-type: none"> • Width to 430 mm (16.9") • Length adjustable from 420 mm to 520 mm (16.5" to 20.5") • Height adjustable from 20 mm to 40 mm (0.8" to 1.6") 	
Max. print area	260 mm x 330 mm (10.2" x 13")	164 mm x 230 mm (6.5" x 9.1")
Print type	Manual	
Print table adjustment	X and Y ± 10 mm (0.4"/400 mil), $\vartheta \pm 5^\circ$	
Max. PCB thickness	5 mm (0.2"), optionally thicker	
Frame type	Zelflex QR 362 mm x 480 mm (14.3" x 18.9")	Zelflex QR 266 mm x 380 mm with adapter (10.5" x 15")
Squeegee type	Hand squeegee, rubber, 260 mm (10.2")	Hand squeegee, metal, 180 mm (7")
Accuracy (machine)	± 20 µm (± 1 mil)	
Double-sided print	Max. component height 15 mm (0.59")	
Dimensions (W x H x D)	850 mm x 180 mm x 530 mm (33.4" x 7.1" x 20.9")	
Weight	30 kg (66 lbs)	
Operating conditions	Temperature: 15 – 35 °C (59 – 95 °F); humidity: 30 – 80 %	
Options and accessories	Stretching frame, squeegees	

