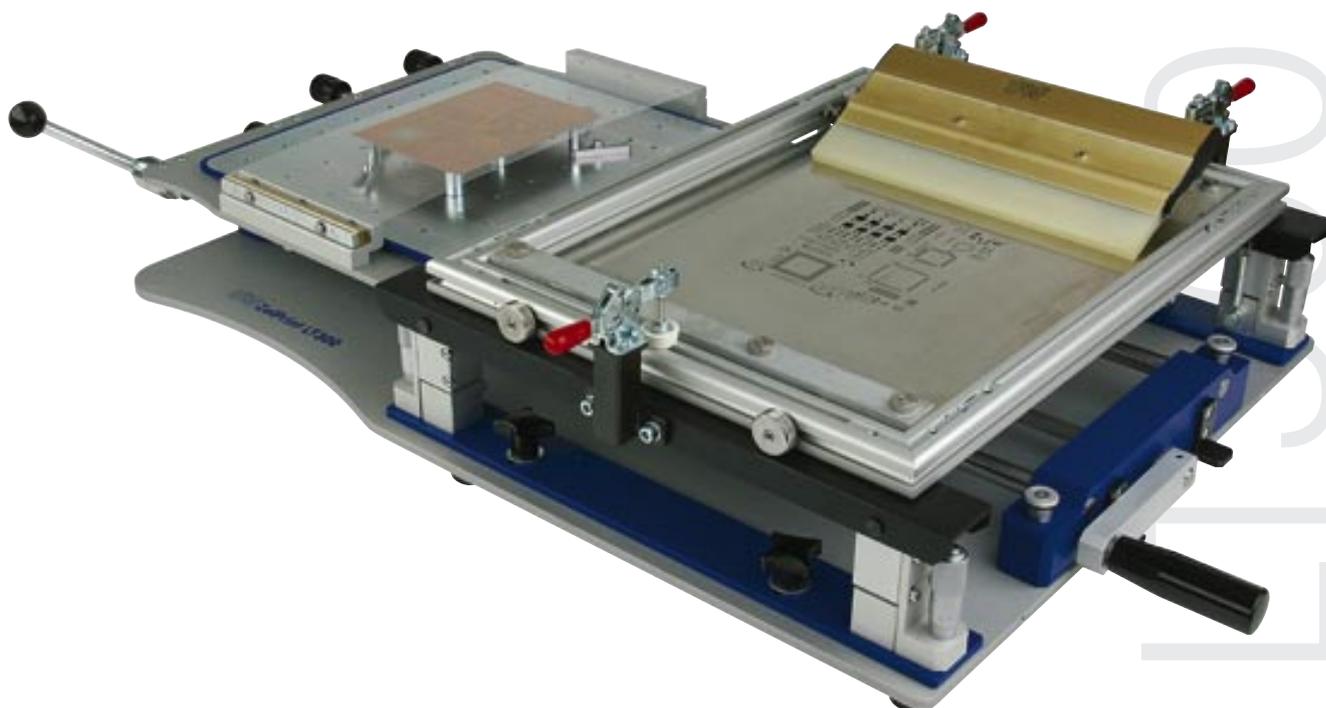


LPKF ZelPrint LT300

SMT solder paste printer

Item	LPKF ZelPrint LT300
Part #	107356
Order info	Inside front cover



The LPKF ZelPrint LT300 is a precision manual stencil printer. This tabletop model can be used for prototypes and for small batches of fine pitch SMT boards. On-contact fine-pitch printing, precise vertical separation between stencil and PCB, and slow snap-off provides superb printing results. This unique solution allows printing of 0.3 mm (12 mil) pitch (ultra-fine-pitch area).

The LPKF ZelPrint LT300 boasts high positioning accuracy, simple operation and the ability to use milled polymer stencils (limited to 0.65 mm [25 mil] pitch), reducing costs and increasing efficiency in the production of circuit board prototypes.

This printer is shipped with a ZelFlex quick-release stretching frame for stencils, but is also compatible with various other frames.

- On-contact fine-pitch printing
- Parallel stencil separation
- Printing populated double-sided boards
- Compatible with various stencil frames
- Test print screen included
- Screen printing
- Optional vacuum table for printing on flex and rigid PCBs

Plotters

Laser

Plating

Multilayer

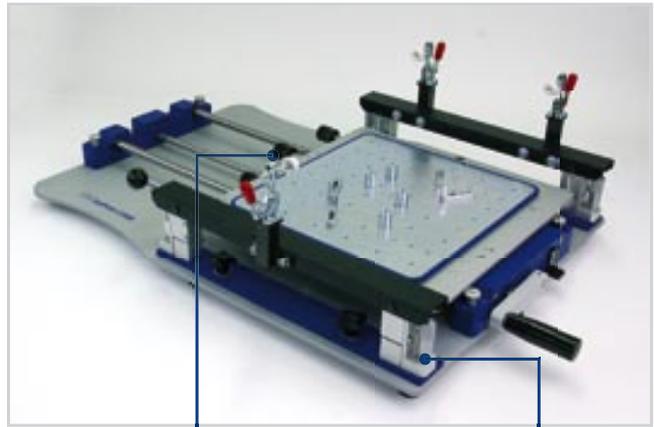
SMT/Finishing

Tech Guide

Index

Fine pitch printing

Precise three-dimensional (X, Y, theta and clearance) adjustment of the PCB and the stencil with micrometer screws is vital for superior printing results. Excellent positioning accuracy and a specially designed lever for speed controlled parallel separation makes ultra-fine-pitch printing possible. Micrometer screws easily and precisely adjust the PCB-screen gap.



Micrometer screws

PCB clamping

The LPKF ZelPrint LT300 features freely adjustable, high-clearance PCB nesting pins that allow boards populated on one side to be printed on the other. Frames, such as the LPKF ZelFlex, easily mount on adjustable supports and clamp with height and length adjustable fixing clamps. The LPKF ZelPrint LT300 includes a test print screen for fast set-up of new print jobs.

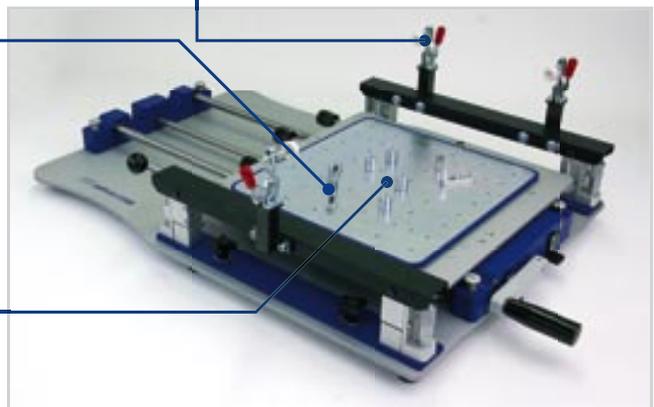
Fixing clamps



PCB nesting pins

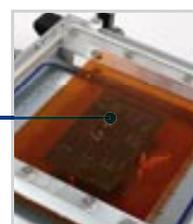
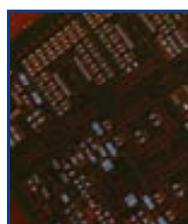


Test print screen

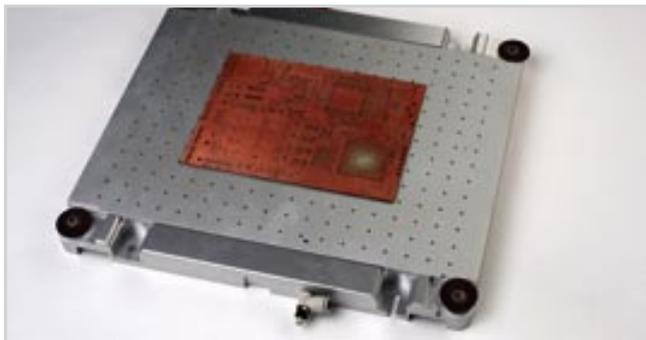


Plastic stencil for rapid PCB prototyping

The ability to use milled polymer stencils (limited to 0.625 mm/25 mil pitch) reduces costs and increases efficiency in the production of circuit board prototypes.



Options



Vacuum table

Vacuum table for printing on flex and rigid PCBs as well as for fast clamping of rigid PCBs is available as an option. Flex and rigid boards can be easily moved to the LPKF ProtoPlace together with a vacuum table as 100% compatibility is ensured. The table can be easily and freely moved from one device to another without disconnection or interruption of vacuum.

Part # **119684**

Accessories

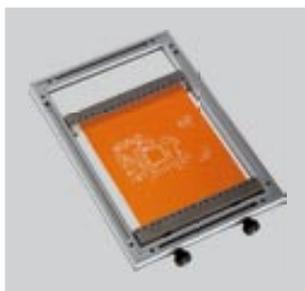


Accessories

ZelFlex Frames for LPKF ZelPrint LT300

Mechanical stretching frame

Insert plastic or metal stencils into double-sided LPKF ZelFlex ZR frames. The fast exchange and patented stretching system optimizes tensioning and easy handling.



ZelFlex ZR 362x480*	
Part #	101321
Type	2-sided mechanical
Print area	260 x 330 mm (10.2" x 13")
Foil size	Up to 310 x 410 mm (12.2" x 16.1")
Squeegee max.	280 mm (11")

* Included in delivery Specifications subject to change.

Pneumatic stretching frame

Professional quick-release stencil frame with pneumatic 4-side action: Ideal for high-volume environments. Frame maintains tension even after air is disconnected.



ZelFlex Z4P 406x508	
Part #	115629
Type	4-sided pneumatic
Print area	286 x 388 mm (11.3" x 15.3")
Foil size	368 x 470 mm (14.5" x 18.5")
Squeegee max.	290 mm (11.4")

Specifications subject to change.

Squeegees

LPKF offers different types of squeegees for the application of solder paste.



Squeegees		
Part #	Type	Size
101330	Rubber	250 mm (9.8")
101331	Rubber	350 mm (13.8")
101325	Hand squeegee, rubber	150 mm (5.9")
108140	Hand squeegee, rubber	260 mm (10.2")

Specifications subject to change.

Test print frame TR350

Part # **106957**



Specification table

LPKF ZelPrint LT300	
Part #	107356
Frame dimensions	Width up to 430 mm (16.92") Length adjustable from 420 to 520 mm (16.54" to 20.47") Height adjustable from 20 to 40 mm (0.78" to 1.57")
Maximum printing area	300 x 300 mm (11.8" x 11.8")
Print stroke	Manual
Print table adjustment	X and Y ±10 mm (0.4"/400 mil), θ±5°
Max. PCB thickness	5 mm (0.2"), optionally more
Squeegee type	Rubber (optionally metal)
Accuracy (machine)	±0.025mm (±1 mil)
Print weight	±0.04 mm (±1.57 mil)
Double-side printing	Max. height of components 15 mm (0.59")
Dimensions (W/H/D)	740 x 180 x 530 mm (29.1" x 7.1" x 20.9")
Weight	30 kg (66 lb)
Ambient conditions	Temperature: 20–35 °C Humidity: 30–95%
Specifications subject to change.	

- Plotters
- Laser
- Plating
- Multilayer
- SMT/Finishing
- Tech Guide
- Index