

Semi-Automatic Pick & Place System

LPKF ProtoPlace S

- Precise mounting of fine-pitch components
- Optional feeders and component turntable
- Pneumatic component placement
- Dispensing function
- Microprocessor controlled
- Optional camera system and vacuum table



Easy SMT Assembly

The LPKF ProtoPlace S manual pick & place system picks up SMD components via a vacuum from the component tray or from a feeder.

Following initial manual positioning fine adjustment is performed using micrometer screw gauges. The component is then safely and accurately lowered by a pneumatic mechanism. In addition to assembly, the ProtoPlace S also works as a dispenser for solder paste, glue, and auxiliary materials.

An LCD display and menu-based navigation make operation easy. The optional camera system with color monitor supports the user in precise positioning of high-pin-count components.

Accessories

The ProtoPlace S can be upgraded with a vacuum table, a component turntable with up to 90 component trays, and a feeder carrier with stick and roller feeders. The microcamera and an LCD monitor are a great help in fine-pitch component assembly, and a compressor and an air pressure controller provide for the necessary pressure for the dispensing function.



The vacuum needle places the component exactly in the desired location

LPKF ProtoPlace S	
Max. PCB size	297 mm x 420 mm (11.8" x 16.5")
Min. component size	0201 chip components
Pulse/pause duration	0.1 – 9 s / 0.1 – 2 s
Dosing quantity (Dispenser)	Min. 0.2 µl
Component turntable position	Rear
Feeder position	Left
Adjustable air pressure	0.1 – 4 bar (1.4 – 58 psi)
Vacuum	Max. 0.8 bar (11.6 psi)
Weight	29 kg (64 lbs) depending on accessories
Dimensions (W x H x D) (with all feeders and turntable)	1000 mm x 500 mm x 900 mm (40" x 20" x 35")
Dimensions (W x H x D) (machine only)	760 mm x 250 mm x 760 mm (30" x 10" x 30")
Operating conditions	Temperature: 15 – 35 °C, (59 – 95 °F); humidity: 30 – 80%
Compressed air supply	8 bar (116 psi), min. 50 L/min (1.76 cfm), unlubricated, waterless
Power supply	115/230 V, 50 – 60 Hz, 10 W
Options and accessories	Vacuum table, component turntable, feeder carrier (stick/roller feeders), microcamera, LCD monitor, compressor, and air pressure regulator

