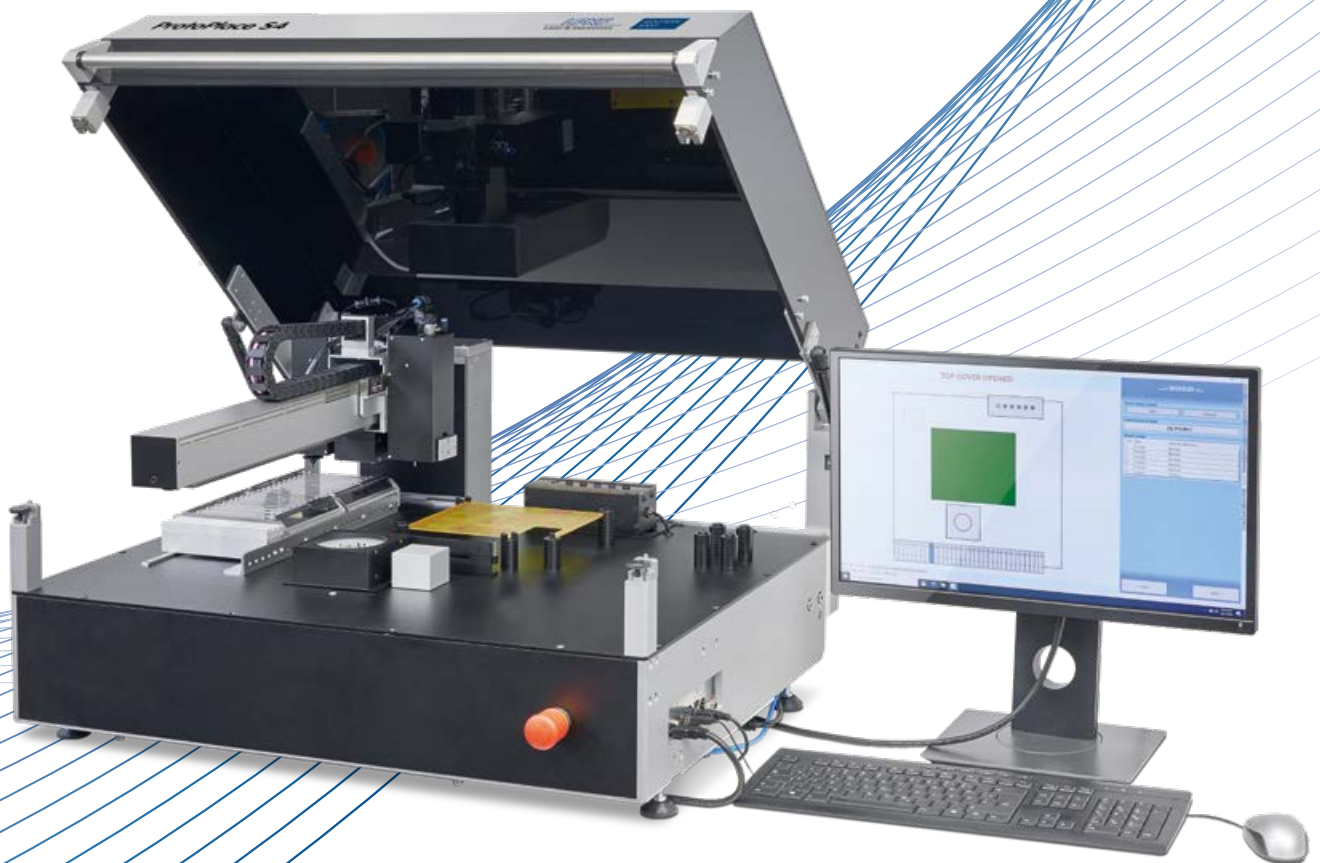


SMD Pick & Place Machine for PCB Prototypes and Low Volumes

LPKF ProtoPlace S4

- Pick & place machine with camera-supported precision
- For chip designs from 0201 to 40 x 80 mm
- Automatic nozzle changer with 6 nozzles
- Intuitive graphical user interface
- CAD editor for all CAD systems



SMD Pick & Place Machine for PCB Prototypes and Low Volumes

The LPKF SMT Edition pick & place machines feature easy operation and high precision. In all the different models, use of standard and fine-pitch SMD components and placement of SOIC, PLCC, BGA, μ BGA, CSP, QFN, and LEDs are possible.

Thanks to the intuitive software interface, setup times are short – even for occasional users. The software guides the user through each step in the process. After each process step, the user confirms the function and is automatically guided to the next step. This is controlled via the integrated PC, which thus assumes the tasks of data preparation and machine control. The work area for the material and the positions of individual machine components such as the bottom camera, the nozzle changer, or the component holder are shown in the graphical display.

Component holders for tapes, tubes, trays, and bulk parts can be placed on the work area which has maximum dimensions of 540 x 480 mm. Every pick & place system in the series has optical centering, a top camera for automatic fiducial correction, and a bottom camera for automatic component centering. The cameras can also be used for optical inspection of solder paste printing and component placement.

To supplement the basic LPKF ProtoPlace S4.1 machine, LPKF offers three other versions with different additional functions: A contactless dispensing head is available for application of defined amounts of solder paste or adhesives (ProtoPlace S4.10).

The “Smart Automatic Feeder” supports users with a higher throughput of PCBs, e.g., for processing low volumes (ProtoPlace S4.20). If both of these additional options are desired, then the ProtoPlace S4.30 is the system of choice.

Model	Item no.	Description
LPKF ProtoPlace S4.1	10110444	Precision SMT pick & place machine
LPKF ProtoPlace S4.10	10110498	Precision SMT pick & place machine with dispensing option
LPKF ProtoPlace S4.20	10110499	Precision SMT pick & place machine with feeder portal
LPKF ProtoPlace S4.30	10110500	Precision SMT pick & place machine with dispensing option and feeder portal

LPKF Edition SMT ProtoPlace S4

Work area	Max. placement area 480 mm x 540 mm (19" x 21")
Work area for systems with dispenser option	Max. placement area 500 mm x 480 mm (20" x 19")
Components	From 0201 to 40 x 80 mm
Min. pitch	0.4 mm (15.8 mil)
X/Y resolution	0.008 mm (0.3 mil)
Z resolution	0.02 mm (0.8 mil)
Rotation	0.01°
Positioning accuracy	±0.03 mm (1.2 mil)
Placement rate	Min. 1200 chips/h
Size	840 mm x 630 mm (700 mm with feeder option) x 430 mm (33.1" x 24.8 (27.6") x 17")
Weight	Approx. 90 kg (200 lbs)
Power supply	110 – 230 V / 50 – 60 Hz, 850 W
Air consumption	Min. 6 bar, 25 l/min (min. 90 PSI; 25 l/min)
Dispensing rate	Up to 6000 dots/h

