

Semi-automatic Pick & Place System
LPKF ProtoPlace® S



LPKF ProtoPlace S

System for Precise SMT Assembly

- Precise fine-pitch component assembly
- Axes blocking and fine adjustment
- Controlled component placement
- Micro camera
- Multifunctional dispenser
- Motorized turntable



Reliable and precise pick & place system

The LPKF ProtoPlace S is a semi-automatic pick & place system for the professional assembly of complex SMD printed circuit board prototypes and small-batch projects. Mechanism, micro table and automated placement enable placing of fine-pitch components while the multifunctional dispenser increases functionality.

Precise fine-pitch component assembly

With ProtoPlace S it is possible to place various components including fine-pitch down to 0,4 mm (16 mil). Precise placing of fine-pitch components is ensured by a x/y/z locking mechanism, micro table fine adjustment and automated placing. Final placement is done automatically thus eliminating operator errors.



Micro camera for greater control and precision

The micro camera can be easily installed onto the system, providing greater control and accuracy. The camera is tilted for a side view of the components giving the operator a very clear view of the placement area.



Multifunctional dispenser

The removable dispenser provides precise dispensing of pastes or glues in manual or automatic modes. Air pressure regulation with time control and the non-drop vacuum function guarantee precise flow, quantity and timing of media dispensing. Using a micro camera and blocking system the most complex dispensing tasks are possible (as for 0201 pads).



User friendly interface

Ergonomic design and the simple menu-based navigation make operating the ProtoPlace S easy and handy. The arrow designed keyboard and LCD enable fast and easy setting of different operating modes and parameter values.

Feeding systems

The ProtoPlace S offers a wide variety of feeding possibilities such as the turntable, feeders and pallets. All are easily replaced for maximum flexibility. The feeder carrier supports tape and stick distribution systems in a modular way.

Motorised turntable

A great advantage of the ProtoPlace S system is its motorized turntable which contains 45, 75 or 90 antistatic bins for loose components. Table cover opens only one bin at a time.





Technical data: LDKF ProtoPlace S

Maximum circuit board size	297 × 420 mm (11.8" × 16.5")
Min. size of components	0201 chip components
Operating air pressure (dispensing)	0,1 – 4 bar (1.4 – 58 psi)
Pulse / Pause duration	0,1 - 9 s/0,1 - 2 s
Number of dosing points	up to 300/min
Dosing quantity	min. 0,2 mm ³
Vacuum	0 – 0,8 bar (0 – 0,8 × 10 ⁵ Pa)
Turntable position	Back
Feeders position	Left
Power supply	115/230 V, 50-60 Hz, 10 W
Compressed air supply	6 bar (6 × 10 ⁵ Pa), min. 10 L/min., oil free, water free
Dimensions of basic device (W x H x D)	760 × 250 × 760 mm
Dimensions (with options)	1000 × 500 × 900 mm (with feeders and turntable)
Weight	25 - 35 kg (with additional/optional equipment)
Ambient conditions	Temperature: 15 - 35 °C Humidity: 30 - 80 % General level of lighting: 500 lx

Options:

Movable micro CCD camera NTSC
Movable micro CCD camera PAL
Colour LCD monitor 17" AV input
LDKF SMT Vacuum Table
Accessory set for dispensing and placement (included in basic configuration)
Pedal switch with 2 m cable (included in basic configuration)
Magnetic edge support 4x
Air supply unit (air pressure regulator with 5 µm filter and water separator)

Turntables & Feeders:

Motorized Turntable with: - 45 antistatic component bins, - 75 antistatic component bins or - 90 antistatic component bins. Feeder-carrier for up to 12 feeders	Tape feeder 8 mm Tape feeder 12 mm Tape feeder 16 mm Stick feeder SO8 - SO28, SO8L - SO28L Stick feeder PLCC28 - PLCC44 Stick feeder PLCC52 - PLCC84
---	---

LDKF

Laser & Elektronika d.o.o.

Polica 33 4202 Naklo

SLOVENIA

Phone: +386 592 08 800

Fax: +386 592 08 820

e-mail: info@lpkf.si

web: www.lpkf.si

LDKF

Laser & Elektronics AG

Osteriede 7 30827 Garbsen

GERMANY

Phone: +49 5131 7095 0

Fax: +49 5131 7095 90

e-mail: info@lpkf.de

web: www.lpkf.com

Magyarországon forgalmazza:

PANNONCAD KFT.

1155 BUDAPEST, DEMBINSKY U. 1.
TEL.: 305-0250 FAX: 305-0249
www.pannoncad.hu