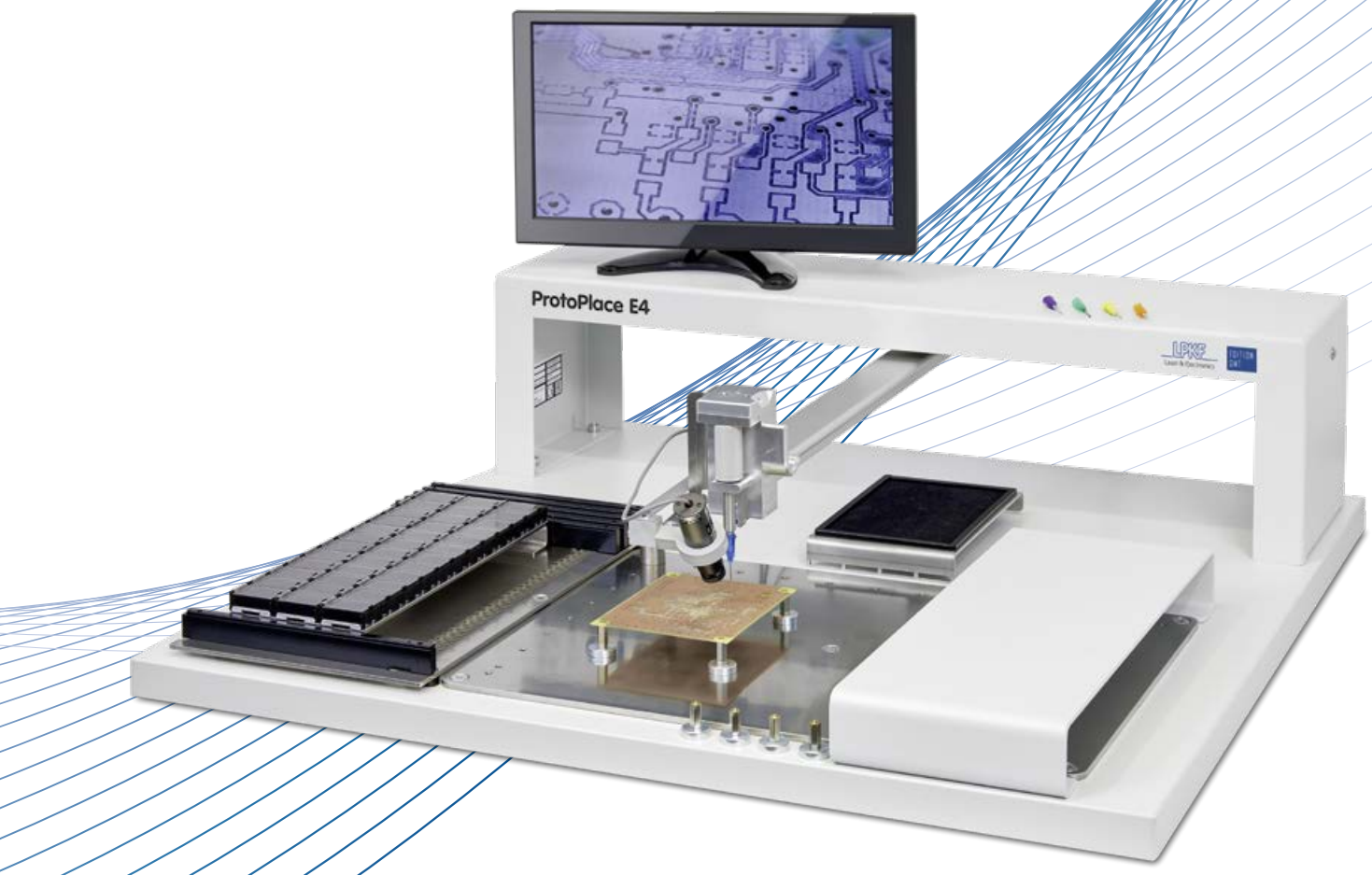
Fast and Easy Positioning

LPKF ProtoPlace E4

- Exact component placement by camera support
- Ergonomic one-hand operation
- Flexible work area via magnetic PCB holders
- Ready to use immediately – no additional installation required



LPKF
Laser & Electronics

Fast and Easy Positioning

Manual Pick & Place System for PCB Prototypes

For populating PCBs with tiny SMD components, the support of a pick and place system is required. With the LPKF ProtoPlace E4 manual pick & place system, the components are safely removed from the component trays or integrated tape feeders via vacuum needle. The ergonomically formed placement head is guided to the appropriate point above the circuit board, the component is placed, and the vacuum is deactivated – all very easily with just one hand. Precise work is supported by the integrated camera, the monitor right above the work surface, and the smooth motion of the axes.

Multiple needle diameters are required to hold a wide variety of components securely. Common needle diameters are included with the system to make the ProtoPlace E4 immediately ready for use.

For components to be placed with the ProtoPlace E4, solder paste must first be deposited onto the corresponding pads on the circuit boards. This is ideally done with the dispensing function of an LPKF ProtoMat or via stencil printing with the LPKF ProtoPrint S4.

LPKF ProtoPlace E4	
Max. PCB size	340 mm x 170 mm (13.4” x 6.7”)
Min. PCB size	8 mm x 8 mm (0.3” x 0.3”)
Max. placement area	270 mm x 170 mm (10.6” x 6.7”)
Max. PCB thickness	10 mm (0.4”)
Height below the PCB	18 mm (0.7”)
Placement head stroke	Max. 25 mm (0.98”)
Min. component size	0402 – 70 x 70 mm (2.8” x 2.8”)
Component trays / tape feeder	36/5
Dimensions (W x D x H)	600 mm x 600 mm (840 mm) x 200 mm (23.6” x 23.6” (33.1”) x 7.9”)
Weight	15 kg (33 lbs)
Ambient conditions	15 °C – 30 °C (59 °F – 86 °F) / 50 – 75 %
Compressed air	Integrated
Power supply	220 – 240 V, 5 VA

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www.lpkf.com/protoplace-e4

Photos may also show optional accessories.

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