



Consumables for LPKF Circuit Board Plotters

LPKF offers only high-quality consumables. From copper-clad base materials to cleaning pads or custom adhesive tape, LPKF guarantees first-class product quality – because a high-quality end product starts with the basic raw material.


i Ordering info: See front sleeve.

Starter sets (for initial ProtoMat set-up)

LPKF starter sets include an extensive assortment of work materials, tools, and other accessories needed for quick set-up. We offer customized starter sets for each circuit board plotter.

LPKF ProtoMat S103

Part no.	Contents
122159	For use with vacuum table: 2 x Sinter backing plate white 315 mm x 239 mm x 5 mm (12.4" x 9.4" x 0.2")
Also included:	10 x Base material FR4, 229 mm x 305 mm (9" x 12"), 0/35 µm (predrilled) 5 x Base material FR4, 229 mm x 305 mm (9" x 12"), 35/35 µm (predrilled) 5 x Base material FR4, 229 mm x 305 mm (9" x 12"), 18/18 µm (predrilled) 5 x Micro cutter with 1/8" distance ring, 36 mm (1.4"), d = 0.1 – 0.15 mm (4 – 6 mil) 3 x End mill (RF) with 1/8" distance ring, 36 mm (1.4"), d = 0.15 mm (6 mil) 10 x End mill (RF) with 1/8" distance ring, 36 mm (1.4"), d = 0.25 mm (10 mil) 3 x End mill (RF) with 1/8" distance ring, 36 mm (1.4"), d = 0.40 mm (16 mil) 5 x End mill with 1/8" distance ring, 36 mm (1.4"), d = 1.00 (39 mil) 2 x End mill with 1/8" distance ring, 36 mm (1.4"), d = 2.00 (79 mil) 2 x End mill with 1/8" distance ring, 38 mm (1.5"), d = 2.00 (79 mil) 1 x Custom adhesive tape, 3 x board cleaning pad 1 x Tool set with 1/8" shaft and distance rings (Part no. 129103, see page 26 for contents)



LPKF ProtoMat S63

Part no.	Contents
115791	For use without vacuum table: 10 x Drill underlay material 229 x 305 mm (9" x 12"), d = 2 mm (0.08") (predrilled)
122157	For use with vacuum table: 2 x Sinter backing plate white 315 mm x 239 mm x 5 mm (12.4" x 9.4" x 0.2")
Also included in both sets:	10 x Base material FR4, 229 mm x 305 mm (9" x 12"), 0/35 µm (predrilled) 5 x Base material FR4, 229 mm x 305 mm (9" x 12"), 35/35 µm (predrilled) 5 x Base material FR4, 229 mm x 305 mm (9" x 12"), 18/18 µm (predrilled) 5 x Micro cutter with 1/8" distance ring, 36 mm (1.4"), d = 0.1 – 0.15 mm (4 – 6 mil) 5 x End mill (RF) with 1/8" distance ring, 36 mm (1.4"), d = 0.25 mm (10 mil) 1 x Custom adhesive tape, 3 x circuit board cleaning pad 1 x Tool set with 1/8" shaft and distance rings (Part no. 129103, see page 26 for contents)

LPKF ProtoMat S43

Part no.	Contents
117717	For use without vacuum table: 10 x Drill underlay material 229 x 305 mm (9" x 12"), d = 2 mm (0.08") (predrilled)
122158	For use with vacuum table: 2 x Sinter backing plate white 315 mm x 239 mm x 5 mm (12.4" x 9.4" x 0.2")
Also included in both sets:	10 x Base material FR4, 229 mm x 305 mm (9" x 12"), 0/35 µm (predrilled) 5 x Base material FR4, 229 mm x 305 mm (9" x 12"), 35/35 µm (predrilled) 1 x Custom-designed adhesive tape, 3 x board cleaning pad 1 x Tool set with 1/8" shaft and distance rings (Part no. 129103, see page 26 for contents)

LPKF ProtoMat D104

Part no.	Contents
10035172	For use with vacuum table: 1 x Sinter backing plate white 315 mm x 239 mm x 5 mm (12.4" x 9.4" x 0.2")
Also included:	5 x Base material FR4, 229 mm x 305 mm (9" x 12"), 18/18 µm (predrilled) 5 x Base material FR4, 229 mm x 305 mm (9" x 12"), 35/35 µm (predrilled) 5 x Micro cutter with 1/8" distance ring, 36 mm (1.4"), d = 0.1 – 0.15 mm (4 – 6 mil) 3 x End mill (RF) with 1/8" distance ring, 36 mm (1.4"), d = 0.15 mm (6 mil) 10 x End mill (RF) with 1/8" distance ring, 36 mm (1.4"), d = 0.25 mm (10 mil) 3 x End mill (RF) with 1/8" distance ring, 36 mm (1.4"), d = 0.40 mm (16 mil) 5 x End mill with 1/8" distance ring, 36 mm (1.4"), d = 1.00 (39 mil) 2 x End mill with 1/8" distance ring, 36 mm (1.4"), d = 2.00 (79 mil) 2 x End mill with 1/8" distance ring, 38 mm (1.5"), d = 2.00 (79 mil) 1 x Custom adhesive tape, 3 x board cleaning pad 1 x Tool set with 1/8" shaft and distance rings (Part no. 129103, see page 26 for contents)

LPKF ProtoMat X60: Upon request


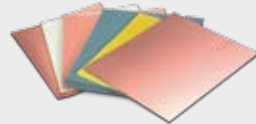
Please note: tool set contents may vary by country. Please contact your local distributor for details (see page 134). All specifications are subject to technical modifications.

LPKF ProtoMat E33

Part no.	Contents
127696	10 x Drill underlay material, 229 mm x 305 mm x 305 mm, (9" x 12"), d = 2 mm (predrilled) 10 x Base material, 229 mm x 305 mm, (9" x 12"), 0/35 µm (predrilled) 5 x Base material FR4, 229 mm x 305 mm, (9" x 12"), 35/35 µm (predrilled) 1 x Custom adhesive tape 3 x Board cleaning pad 1 x Tool set with 1/8" shaft and distance rings (Part no. 129103, see page 26 for contents)

Multilayer sets for multilayer PCB production

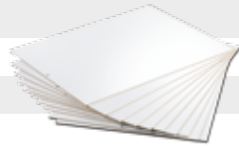
The LPKF multilayer starter sets include all the materials necessary for producing high-quality multilayers using an LPKF circuit board plotter and a MultiPress S.

Part no.	Description	Contents
121103	4-layer multilayer set for MultiPress S, S series/electroplating 	Material size: 229 mm x 305 mm (9" x 12") Base and auxiliary material for 10 multilayers consisting of: 20 x Laminate multilayer 0/5 µm, (229 mm x 305 mm x 0.2 mm) with protective foil 40 x Prepreg (200 mm x 275 mm x 0.1 mm) 5 x Pressing cardboard cushion (229 mm x 305 mm) 10 x Base material FR4 18/18 µm, (229 mm x 305 mm x 1 mm) 1 Pack seal rings
121102	4-layer multilayer set for MultiPress S, S series/chemical-free through-hole plating	Material size: 229 mm x 305 mm (9" x 12") Base and auxiliary material for 10 multilayers consisting of: 20 x Laminate multilayer 0/18 µm, (229 mm x 305 mm x 0.2 mm) without protective foil 40 x Prepreg (200 mm x 275 mm x 0.1 mm) 5 x Pressing cardboard cushion (229 mm x 305 mm) 10 x Base material FR4 18/18 µm (229 mm x 305 mm x 1 mm) 1 Pack seal rings
121093	6-layer multilayer set for MultiPress S, S series/electroplating 	Material size: 229 mm x 305 mm (9" x 12") Base and auxiliary material for 10 multilayers consisting of: 20 x Laminate multilayer 0/5 µm (229 mm x 305 mm x 0.2 mm) with protective foil 60 x Prepreg (200 mm x 275 mm x 0.1 mm) 5 x Pressing cardboard cushion (229 mm x 305 mm) 20 x Base material FR4 18/18 µm (229 mm x 305 mm x 0.36 mm) 1 Pack seal rings
124481	8-layer multilayer set for MultiPress S, S series/electroplating	Material size: 229 mm x 305 mm (9" x 12") Base and auxiliary material for 10 multilayers consisting of: 20 x laminate multilayer 0/5 µm (229 mm x 305 mm x 0.2 mm) with protective foil 80 x Prepreg (200 mm x 275 mm x 0.1 mm) 5 x Pressing cardboard cushion (229 mm x 305 mm) 30 x Base material FR4 18/18 µm (229 mm x 305 mm x 0.36 mm) 4 x Set screw with slot, Ø 13 mm 1 x Package reinforcing rings

Drill underlay material and parts for vacuum table

Drill underlay materials line the base material and prevent damage to the machine table. The honeycomb or anchoring plates safely secure the base material to the vacuum table and can be changed individually.

Part no.	Description	Plates per package
116148	Vacuum table honeycomb plates for ProConduct and ProtoMat S series, 5 mm thick, Ø 3.5 mm	4
116099	Vacuum table sinter backing plates for ProtoMat S series	4
SET-10-1086	Drill underlay material, DIN A4, d = 2 mm	10
106389	Drill underlay material, DIN A3, d = 2 mm	10
SET-10-1052	Drill underlay material (predrilled), 229 mm x 305 mm (9" x 12"), d = 2	10



Copper-clad FR4 board material

(1.5 mm thick)

Part no.	Description	Plates per package
SET-10-1053	Base material FR4, 229 mm x 305 mm (9" x 12"), 5/5 µm with protective film, predrilled with 3 mm registration holes	10
115968	Base material FR4, 229 mm x 305 mm (9" x 12"), 0/18 µm with protective film, predrilled with 3 mm registration holes	10
115967	Base material FR4, 229 mm x 305 mm (9" x 12"), 18/18 µm, predrilled with 3 mm registration holes	10
SET-10-1001	Base material FR4, 229 mm x 305 mm (9" x 12"), 0/35 µm, predrilled with 3 mm registration holes	10
SET-10-1000	Base material FR4, 229 mm x 305 mm (9" x 12"), 35/35 µm, predrilled with 3 mm registration holes	10
112059	Base material FR4, DIN A3, 5/5 µm with protective film	10
106398	Base material FR4, DIN A3, 18/18 µm	10
106400	Base material FR4, DIN A3, 0/35 µm	10
106401	Base material FR4, DIN A3, 35/35 µm	10



Multilayer material

Part no.	Description	Plates per package
119574	Base material FR4 18/18 µm, 229 mm x 305 mm (k) x 1 mm (9" x 12" x 0.04")	1
119575	Base material 104 ML, 18/18 µm, 229 mm x 305 mm (k) x 0.36 mm (9" x 12" x 0.01")	1
119571	Thin laminate 104 ML, 0/5 µm, 229 mm x 305 mm (k) x 0.2 mm (9" x 12" x 0.008") with protective film for electroplating multilayer set	1
119818	Thin laminate 104 ML, 0/18 µm, 229 x 305 (k) x 0.2 mm (9" x 12" x 0.008") without protective film for ProConduct multilayer set	1
119572	Prepreg type 2125, 275 mm (k) x 200 mm x 0.1 mm (10.8" x 7.9" x 0.004") for multilayer	2
120999	Pressing pad for MultiPress S, 229 mm x 305 mm x 1.7 mm (9" x 12" x 0.067") with alignment pin holes	1
120345	Pressing metal sheet for MultiPress S, 229 mm x 305 mm x 1.6 mm (9" x 12" x 0.063") with alignment pin holes	1

Cleaning pads

Part no.	Description	Pads per package
106403	The metal-free, ultra fine board cleaning pads remove oxidation from the copper surface of a work piece.	10



Custom adhesive tape

Part no.	Description
106373	The custom adhesive tape secures the base material flat to the work surface and ensures it can be removed without leaving residue.