LPKF milling, drilling and routing tools

Reliable tools for LPKF ProtoMat circuit board plotters

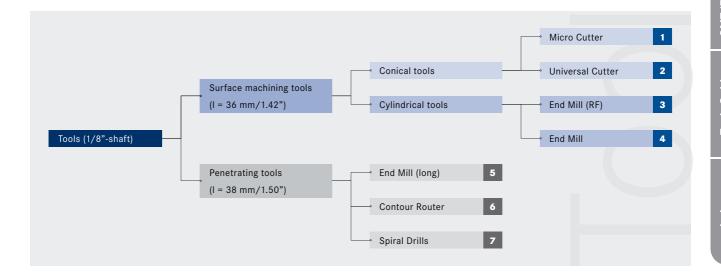
Order info

Inside front cover



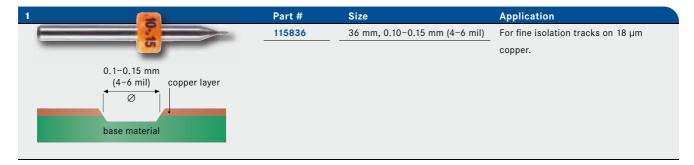
LPKF's committment to the highest-quality components extends to every piece of tooling. Custom-designed for LPKF, these milling, drilling, and routing bits are 100% top-quality carbide, resulting in the longest possible life, precise cuts, and reduced drill flex. Tools are divided

into two main groups – 36 mm (1.42") long tools for *surface* work (milling bits and endmills), and 38 mm (1.5") long bits that are intended to work *through* the material, such as contour routers, and drill bits.



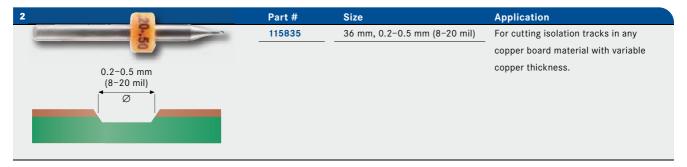
Micro Cutter/Fine-Line Milling Tool 1/8"

Conical custom-designed tool with orange distance ring.



Universal Cutter 1/8"

Conical custom-designed tool with orange distance ring.



End Mill (RF) 1/8"

Cylindrical custom-designed tool with blue distance ring.

3	Part #	Size	Application
	115832	36 mm, d=0.15 mm (6 mil)	For minimal substrate removal to cut
	115833	36 mm, d=0.25 mm (10 mil)	isolation tracks in RF applications.
0.15-0.4 mm	115834	36 mm, d=0.40 mm (16 mil)	
(6−16 mil) Ø			

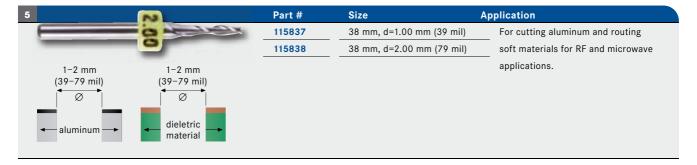
End Mill 1/8"

Cylindrical custom-designed tool with violet distance ring.



End Mill long 1/8"

Cylindrical custom-designed tool with light green distance ring.



Contour router

Cylindrical custom-designed tool with yellow distance ring.

38 mm, d=1.00 mm (39 mil)	For routing inner and outer board
38 mm, d=2.00 mm (79 mil)	contours and holes >2.4 mm (>94 mil).
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Spiral Drill

Cylindrical tool with green distance ring.

7	Part #	Size	Application
	115846	38 mm, d=0.20 mm (8 mil)	For drilling holes <2.4 mm (<94 mil).
	115847	38 mm, d=0.30 mm (12 mil)	
	115848	38 mm, d=0.40 mm (16 mil)	
	115849	38 mm, d=0.50 mm (20 mil)	
	115850	38 mm, d=0.60 mm (24 mil)	
	115851	38 mm, d=0.70 mm (28 mil)	
tetetatete a co	115852	38 mm, d=0.80 mm (31 mil)	
	115853	38 mm, d=0.85 mm (33 mil)	
	115854	38 mm, d=0.90 mm (35 mil)	
	115855	38 mm, d=1.00 mm (39 mil)	
	115856	38 mm, d=1.10 mm (43 mil)	
_	115857	38 mm, d=1.20 mm (47 mil)	
	115858	38 mm, d=1.30 mm (51 mil)	
	115859	38 mm, d=1.40 mm (55 mil)	
CI SUNS	115860	38 mm, d=1.50 mm (59 mil)	
	115861	38 mm, d=1.60 mm (63 mil)	
_	115862	38 mm, d=1.70 mm (67 mil)	
	115863	38 mm, d=1.80 mm (71 mil)	
	115864	38 mm, d=1.90 mm (75 mil)	
	115865	38 mm, d=2.00 mm (79 mil)	
min. 0.2 mm max. 3.0 mm	115866	38 mm, d=2.10 mm (83 mil)	
(8 mil) (118 mil)	115867	38 mm, d=2.20 mm (87 mil)	
Ø	115868	38 mm, d=2.30 mm (91 mil)	
	115869	38 mm, d=2.40 mm (94 mil)	
	115870	38 mm, d=2.95 mm (116 mil)	
	115871	38 mm, d=3.00 mm (118 mil)	

Tool set with 1/8" shaft and distance rings

For all LPKF ProtoMat models. Includes tools with pressed-on distance rings.

Part #	Content	
115909	5x Spiral Drill 1/8", 38 mm (1.5"), d=0.60 (24 mil)	
	5x Spiral Drill 1/8", 38 mm (1.5"), d=0.70 (278 mil)	
	5x Spiral Drill 1/8", 38 mm (1.5"), d=0.80 (31 mil)	
	5x Spiral Drill 1/8", 38 mm (1.5"), d=0.90 (35 mil)	
	5x Spiral Drill 1/8", 38 mm (1.5"), d=1.00 (39 mil)	Pro B
	2x Spiral Drill 1/8", 38 mm (1.5"), d=1.10 (43 mil)	
	2x Spiral Drill 1/8", 38 mm (1.5"), d=1.30 (51 mil)	
	2x Spiral Drill 1/8", 38 mm (1.5"), d=1.50 (59 mil)	433333333333
	2x Spiral Drill 1/8", 38 mm (1.5"), d=3.00 (118 mil)	
	1x Contour Router 1/8", 38 mm (1.5"), d=1.00 (39 mil)	
	1x Contour Router 1/8", 38 mm (1.5"), d=2.00 (79 mil)	
	2x End Mill 1/8", 36 mm (1.4"), d=1.00 mm (39 mil)	
	1x End Mill 1/8", 36 mm (1.4"), d=2.00 (79 mil)	
	2x End Mill (RF) 1/8", 36 mm (1.4"), d=0.40 (16 mil)	
	10x Universal Cutter 1/8", 36 mm (1.4"), 0.2-0.5 mm (8-20 mil)	

RF and Microwave Set with distance rings

Part #	Contents		
116394	Tools with distance rings:		
	5x End Mill (RF) 1/8", 36 mm, d=0.25 mm (10 mil)		
	3x End Mill (RF) 1/8", 36 mm, d=0.40 mm (16 mil)		
	3x End Mill (RF) 1/8", 36 mm, d=0.15 mm (6 mil)		
	5x End Mill 1/8", 36 mm, d=1.00 mm (39 mil)		
	2x End Mill 1/8", 36 mm, d=2.00 mm (79 mil)		
	2x End Mill 1/8", 38 mm, d=2.00 mm (79 mil)		

The tool sets may differ depending on your country of origin. Please contact your local representative for details (page 124).

LPKF recommends only tools manufactured by LPKF and assumes no liability for machine damage or work quality when non-LPKF tooling is used.