

The LPKF MultiCut family: a profitable SMT stencil-cutting solution

With the new LPKF MultiCut StencilLaser systems you can improve production by reducing cutting time, reducing operating costs, and increasing speed and aperture density. This 100% in-house production solution is ready for current and future stencil-cutting challenges.

Always at your service

LPKF maintains a global service staff of employees with hubs on three continents. Our experienced and well-trained service personnel provide the most reliable support structure in the industry.

Financing solutions

LPKF has partnered with industry leading financial partners to be able to offer custom finance packages. These tailored packages are designed to fit a variety of cash flow needs and produce an even quicker return on investment.

Open up new business perspectives

In addition to the ever-growing stencil market, micromachining of mechanical parts has emerged as yet another lucrative application for the LPKF MultiCut system.

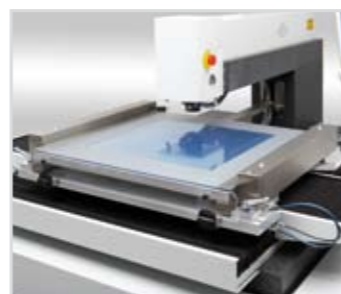
The LPKF MultiCut is capable of cutting metal sheets up to 600 µm thick with superior precision. The extraordinary features of the MultiCut system combine both high performance stencil cutting and micromachining in one single system. Take advantage of the new business opportunities that the LPKF MultiCut can provide you.



LPKF SL AutoClamp – the pneumatic clamping system



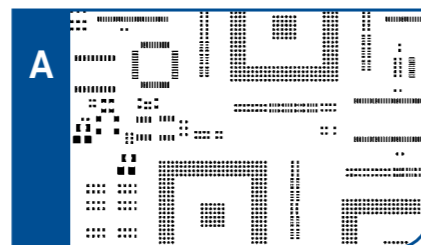
The LPKF SL AutoClamp S holds loose stencil sheets using a pneumatic uniform tensioning system.



The LPKF SL AutoClamp F assures framed stencils remain in the optimal focal point of the laser beam.

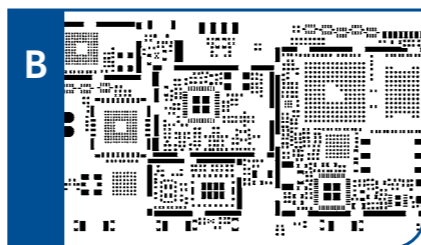
Technical Data	
Speed	Please refer to: Fast fact reference layouts
Cutting range	600 x 600 mm (23.6" x 23.6")
Maximum sheet size	850 x 750 mm (33.5" x 29.5")
Material thickness	Up to 600 µm (23.6 mil)
Laser repetition rate	Up to 45 kHz
Axial precision	±2 µm
Right-angle precision	4 angular seconds
Repeatability	±2 µm
Power consumption	Max. 2,500 W over all
Dimension System (LxWxH)	2,050 x 1,700 x 1,400 mm (81" x 67" x 51")
Weight	Less than 2,000 kg (4,400 lb.)

Fast fact reference layouts



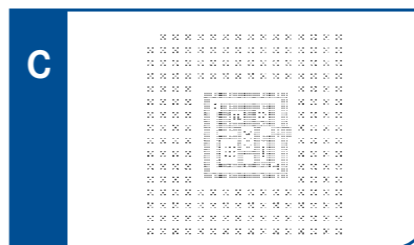
Reference layout A:

- Stainless steel, 150 µm (6 mil) thick, 14,157 apertures
- Speed: 12,300 apertures per hour without FastCut option
- Speed: 13,500 apertures per hour with FastCut option



Reference layout B:

- Stainless steel, 100 µm (4 mil) thick, 11,676 apertures
- Speed: 16,000 apertures per hour without FastCut option
- Speed: 22,100 apertures per hour with FastCut option



Reference layout C:

- Stencil material: Stainless steel, 40 µm (1.6 mil) thick
- Number of apertures: 18,000
- Speed: 46,200 apertures per hour with FastCut option

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LPKF maintains a network with 47 branches and representatives world-wide. Find your local supplier at www.lpkf.com.



Made in Germany

LPKF STENCIL TECHNOLOGY



The new LPKF MultiCut family Accelerate your stencil business

- Manufacture more stencils per shift
- Reduce cost of ownership
- Increased profit from high reliability

Specifications and features are subject to modifications without notice. Pictures may show optional equipment.

LPKF AG, 120031-0707-EN

Improving the Bottom Line

As stencil designs become more complex, demanding greater density and speed in a cutting system, LPKF meets the demands of the industry with the new LPKF MultiCut StencilLaser, a leap ahead in stencil cutting technology.



→ Picture shows LPKF MultiCut PL with automatic clamping system LPKF SL AutoClamp for stencil sheets. (Automatic clamping is also available for framed stencils.)

LPKF MultiCut PL



Everything the LPKF MultiCut has plus FastCut technology. The first choice, especially with high density SMT stencils.

LPKF MultiCut



Outstanding productivity for the SMT stencil cutting business; Includes SL AutoClamp S, LPKF Vision System and more.

LPKF MultiCut S



Profiting from the LPKF MultiCut platform, the S-model performs with exceptionally high cutting speed, quality of cut, and reliability.



Superior cutting performance

LPKF's FastCut is a specially designed beam delivery method that allows the MultiCut system to cut apertures as fast as 46,200 apertures per hour – without ever moving the table – and much more densely than before. This kind of performance meets or exceeds industry demands.



Streamlined data preparation

LPKF's EasyEdit software, designed exclusively for stencil manufacturing, makes the customizing process easier, allowing for global editing of aperture dimensions, quicker changing of information in much less time, and practically unlimited customization.

EasyEdit includes features such as:

- One-click aperture modification
- Full scalability of aperture dimensions
- Custom libraries for automated aperture modifications
- One-click data matrix generation

Benefit from high performance software developed with the help of industry experts, many of which are some of LPKF's best customers.



Reduced operating costs

2-year warranty on the laser source

The new LPKF LongLife Laser gives you thousands of hours of operation in "hands off" mode. This means no more downtime for adjustment or replacement of laser lamps.

The LPKF LongLife laser also saves money by:

- Reducing energy consumption by nearly 85%
- Using ordinary compressed air or oxygen for cutting gas
- Reducing personnel and administrative costs

→ Complete flexibility

It is your choice: The LPKF LongLife Laser is available as water-cooled or air-cooled system for the same price.

Choice of options: All MultiCut models can be equipped with

- EasyEdit Software Package
- FastCut Technology
- LPKF Vision System (Fiducial Camera)
- Digital MicroMeter
- Pneumatic sheet or frame clamping LPKF SL AutoClamp

Our sales engineers would be happy to help you in your decision-making.