

Expanding Opportunities in Stencil Cutting

LPKF StencilLaser G 6060





Efficient laser stencil cutting

The stencil business demands flexibility when it comes to equipment locations all over the world. The LPKF SL G 6060 is a new and desirable solution to implement state-of-the-art production equipment and achieve highly competitive production costs.

Everything under control: Budget, performance, quality

From the LongLife laser to a highly dynamic motion system, owners of the SL G 6060 benefit from the outstanding precision and reliability of the G-series architecture. A small foot print and compact design create ease-of-use. Intuitive interface and minimum maintenance requirements cut cost of ownership in a 24/7 environment; making the SL G 6060 the ideal system for both start-ups as well as established stencil manufacturers to increase profits.

Worldwide customer support

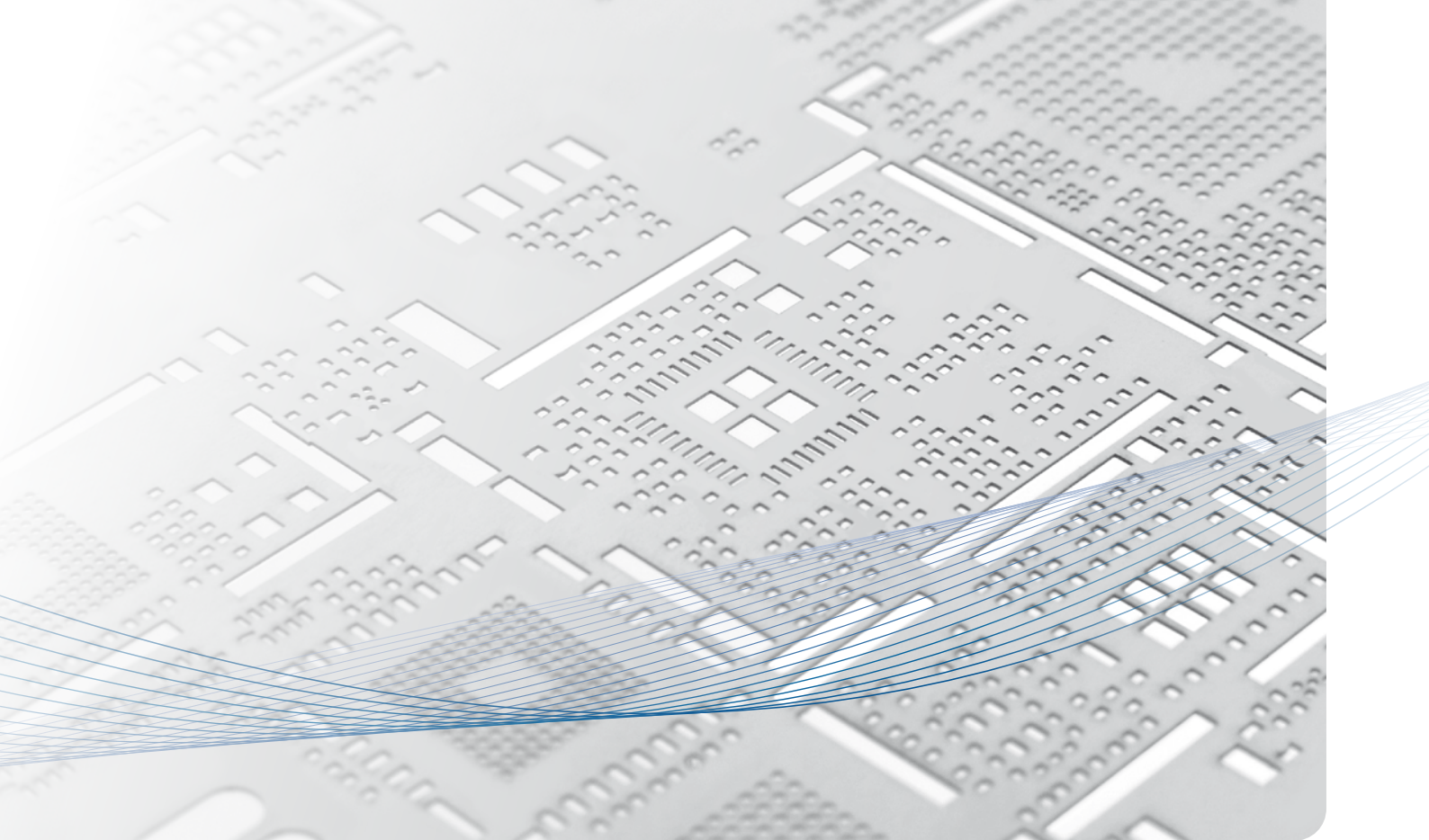
LPKF maintains a global service staff with hubs around the world. Our experienced and well-trained service personnel provide the most reliable support structure in the industry.

Engineered for safety

LPKF puts the safety of the operator first. All LPKF Stencil-Laser systems are compliant with Class I laser safety. They feature easy access architecture, state-of-the-art exhaust technology and simplified material handling. The systems meet or exceed the most stringent industry regulations and recommendations for a safe work environment and environmentally-friendly production.

Financing solutions

LPKF has partnered with industry leading financial specialists in order 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.



- High cutting quality – superior accuracy
- High throughput – more stencils per shift
- Easy operation – designed for optimum return

Stencil cutting for perfect replication of board features

SMT stencils cut with the LPKF StencilLaser G 6060 system deliver accurate paste deposit and optimal release characteristics. The system guarantees excellence in stencil manufacturing with:

- Precise sizes and dimensions
- Sharply defined edges
- Smooth sidewalls
- Splash-free PCB contact sides
- Perfect surfaces

The LPKF SL G 6060 is capable of precisely cutting stainless steel stencils and those of nickel, molybdenum or titanium.

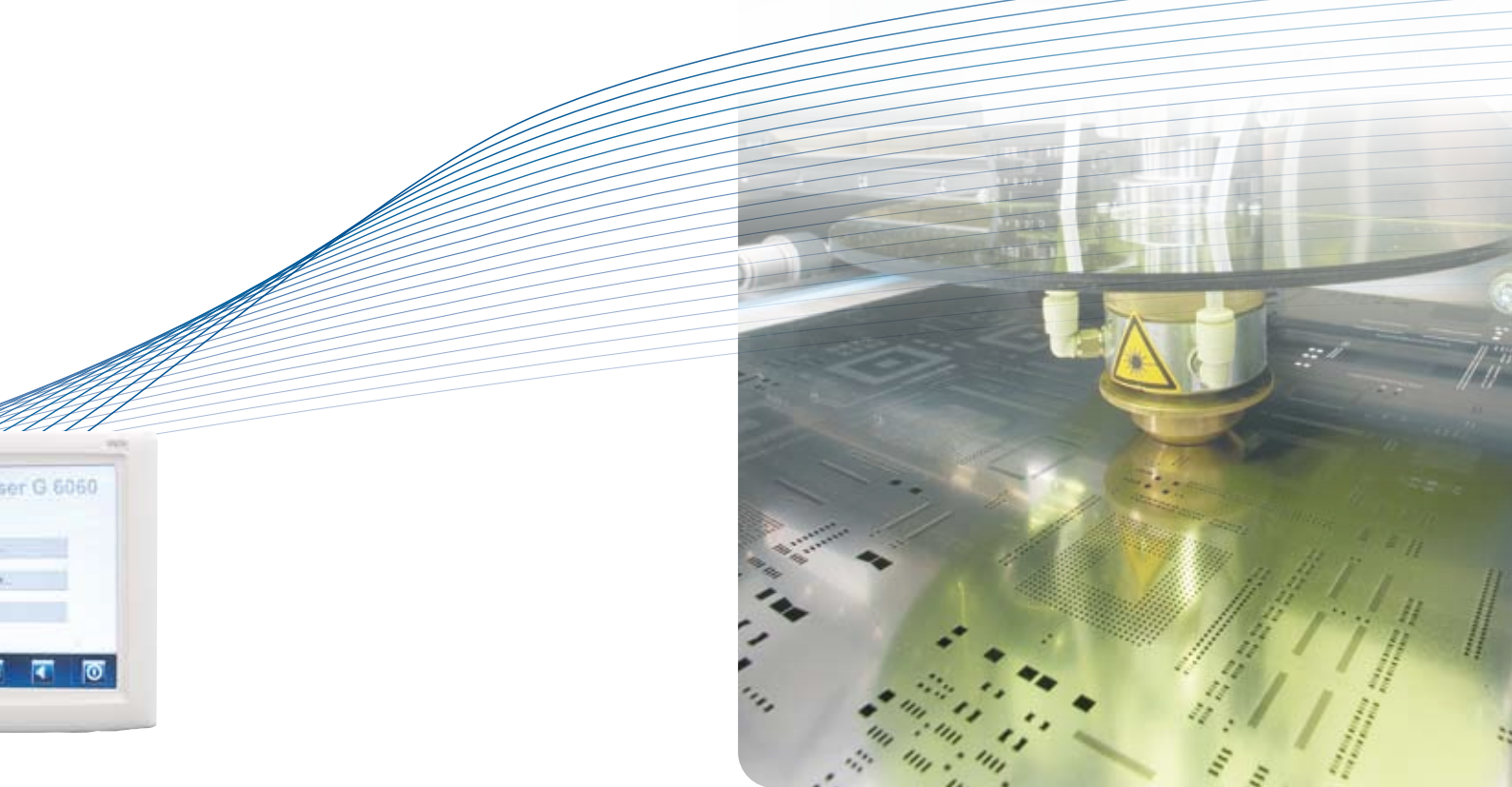
Cutting of precision parts

In addition to the ever-growing stencil market, cutting of microparts is another lucrative application for the LPKF SL G 6060. This system can be used to cut any contours with superior accuracy. Reproducible quality is guaranteed every time. The system cuts metal sheets up to 600 μm (23.6 mil) thick.



LPKF StencilLaser G 6060





Reduced operating cost

The durable, low-power-consumption laser minimizes operating costs and virtually eliminates maintenance costs.



Streamlined data preparation

LPKF's EasyEdit software makes the customizing process even easier, allowing for global editing of aperture dimensions, quicker change of information in a shorter

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 code generation for stencil marking

It is your choice

Complete flexibility: The LPKF LongLife Laser is available as a water-cooled or air-cooled laser source, at no extra cost, in order to meet individual needs and preferences.



Reliable efficiency
Engineered for safety
User-friendly
Eco-friendly

Fast setup

The LPKF StencilLaser G 6060 adjusts to fit any stencil size up to 600 x 600 mm (23.6" x 23.6"). Fully automatic adjustment no longer interrupts time from the valuable production schedule.

Simple changeover from loose sheets to framed stencils

A new LPKF clamping device eliminates change-over time. Without any tools, a loose metal sheet can be prepared in a reusable frame that then can be loaded and unloaded into the system just like a framed stencil.

Intuitive operation

It is as simple as this: Select a frame from the library, load the stencil, select the cutting job and push start. Easy to understand menus on a state-of-the-art touch screen guide the operator. A multilevel-user concept allows customization to the specific administrator's needs.

Always in focus

The fully automatic loading routine assures stencils remain in the optimal focal point. This routine enables the system to cut or engrave stencils from both sides. Manual calibration is not required.

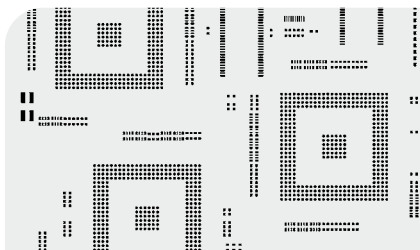
Easy rework

The LPKF Vision System integrates reworking stencils with easy setup and high accuracy.

Remote Maintenance

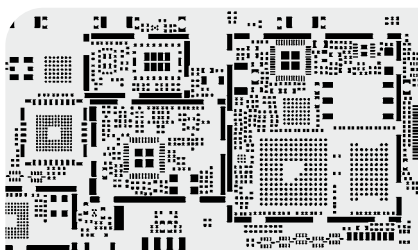
LPKF's service staff can remotely service the system from anywhere in the world using the internet.

Fast fact reference layouts



Reference layout A:

Stainless steel, 150 µm (6 mil) thick
 Number of apertures: 14,157
 Speed: Up to 13,600 apertures per hour



Reference layout B:

Stainless steel, 100 µm (4 mil) thick
 Number of apertures: 11,676
 Speed: Up to 17,400 apertures per hour

Technical Data: StencilLaser G 6060

Speed	Please refer to: Fast fact reference layouts
Cutting area (X/Y)	600 x 600 mm (23.6" x 23.6")
Maximum frame size (X/Y/Z)	740 x 950 x 40 mm (29.1" x 37.4" x 1.6")
Maximum loose sheet size (X/Y)	650 x 850 mm (25.6" x 33.5")
Maximum material thickness	600 µm (23.6 mil)
Laser repetition rate	Max. 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 (L x W x H)	1,400 x 1,400 x 1,550 mm (55" x 55" x 61")
Weight	Less than 1,800 kg (3,970 lb.)

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