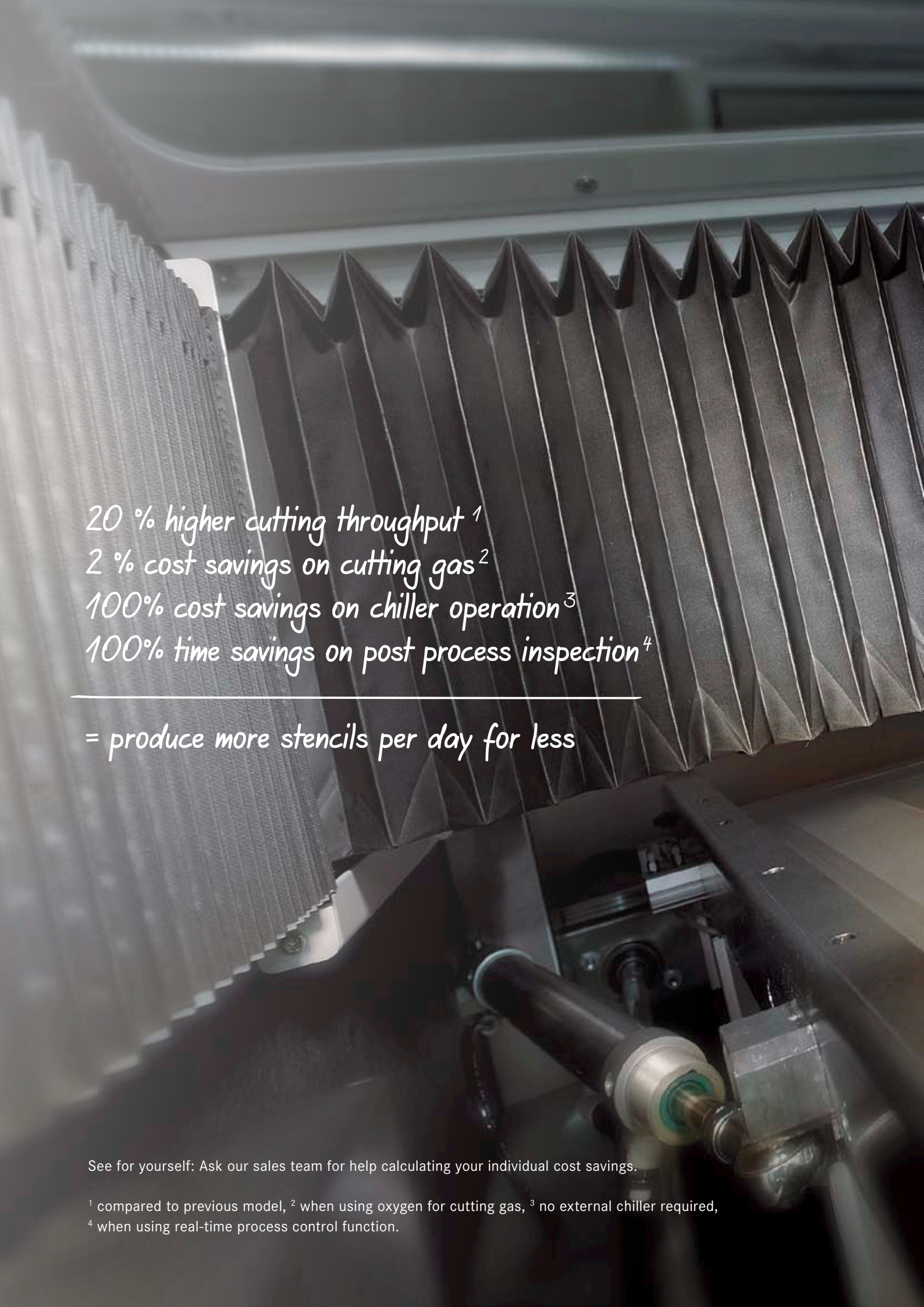


The Most Efficient SMT Solder Paste Stencil Cutter Available
LPKF StencilLaser G 6080, Model 2011



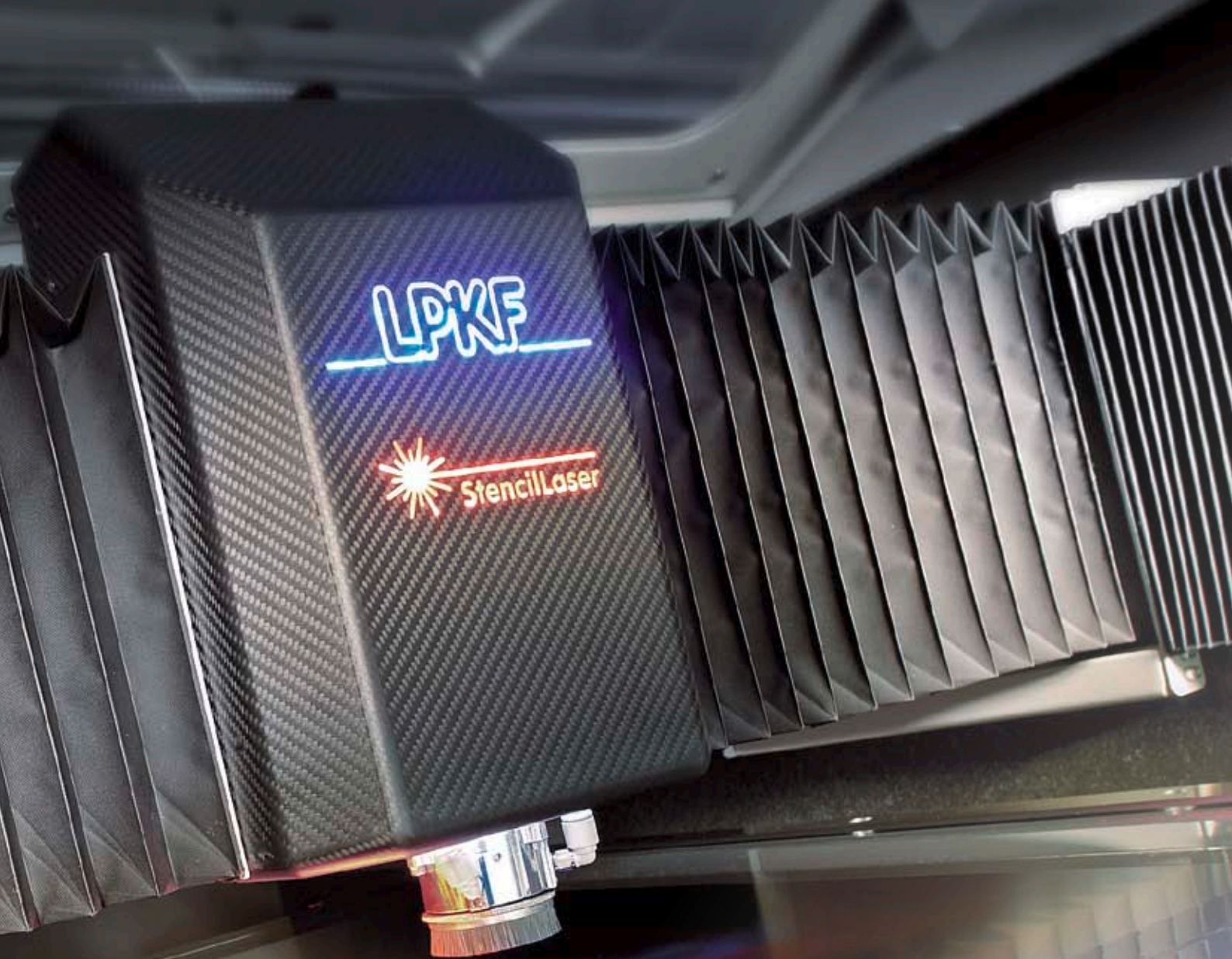


*20 % higher cutting throughput¹
2 % cost savings on cutting gas²
100% cost savings on chiller operation³
100% time savings on post process inspection⁴*

= produce more stencils per day for less

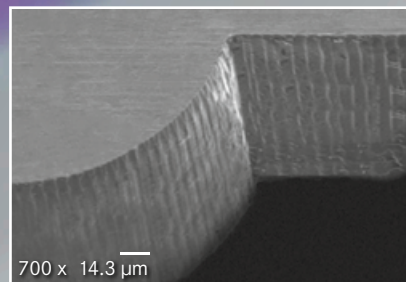
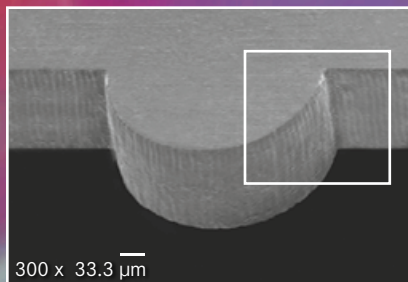
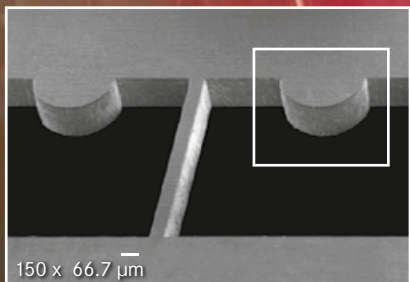
See for yourself: Ask our sales team for help calculating your individual cost savings.

¹ compared to previous model, ² when using oxygen for cutting gas, ³ no external chiller required, ⁴ when using real-time process control function.



Optimum Results

Exact geometries for each and every stencil aperture are essential to achieving perfect printing results. The LPKF StencilLaser G 6080 cuts materials from 20 to 1,000 μm (0.8 to 40 mil) with highest precision at unparalleled speed.



Accurate geometries. Smooth, vertical sidewalls.

100% assured LPKF quality!



Innovation Drives Revenue

The StencilLaser G 6080 Model 2011 represents everything LPKF is renowned for:

Worldwide leadership in designing highly sophisticated products, inspired by customers. The second generation StencilLaser G 6080 is designed to rapidly produce assured quality at minimum cost.

By specifically combining customers' in-depth process knowledge with quality assurance tools and in-house micro-machining expertise, LPKF helps increase efficiency and effectiveness beyond expectation.

The new LPKF StencilLaser G 6080 improves the stencil business with a comprehensive feature set, resulting in:

- increased overall performance
- reduced ownership costs
- simplified operation
- integrated quality control
- maximum up-time
- maximum production flexibility

The LPKF StencilLaser G 6080 helps LPKF customers stay ahead of the competition by utilizing the industry's most advanced technology. Purchasing a StencilLaser G 6080 adds greater flexibility, faster reaction cycles and a higher throughput to your portfolio.

Engineered for Safety

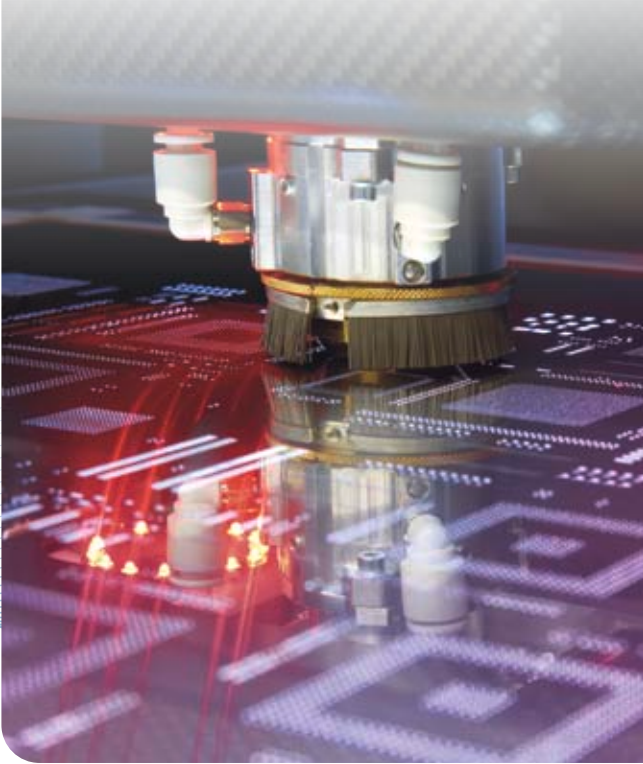
All LPKF StencilLaser systems are compliant with Class 1 laser safety guidelines. They feature easy access architecture, state-of-the-art fume extraction and simplified material handling. The systems meet or exceed the most stringent industry regulations and recommendations for a safe work environment and environmentally-friendly production.

Worldwide Customer Support

LPKF maintains a global service staff with hubs located around the world. The experienced and well-trained service personnel provide the most reliable support structure in the industry. Furthermore LPKF's service staff can remotely service your system from anywhere in the world.

Financing Options

LPKF partners with industry leading financial specialists to offer custom financing options. These tailored packages are designed to fit a variety of cash flow needs and produce an even quicker return on investment.



- Up to 20% faster than any other stencil laser on the market
- Best cost-performance ratio
- Easy operation
- Integrated quality control

Maximum Efficiency Benefits

Having out-performed every commercially available laser system used in stencil production for the last years LPKF continues to expand its innovation. Focusing R&D efforts on the highly dynamic motion systems allowed us to improve the StencilLaser G 6080's cutting throughput by 20% compared to its predecessor. This combination of heightened performance and cutting quality with increased system uptime directly adds greater flexibility, higher throughput and faster delivery.



Top Performance, Top Profits

LPKF's well-known carbon fiber gantry technology was revised to yield even higher performance. The heart of the

StencilLaser G 6080 is defined by an LPKF designed motion system. All of the parts in this system work together like high-end clockwork, providing maximum precision and performance. This improved dynamic design results in impressive benefits:

- Higher throughput through optimized motion control
- Enhanced stiffness of the gantry system to maintain accuracy
- Minimal preventative maintenance requirements

The StencilLaser G 6080 handles different speeds and cutting parameters, depending on the pattern. The EasyEdit software is rich in features and allows users to assign specific cutting parameters to various groups of apertures automatically.

An Easy Way to Perfect Stencils

Using the LPKF StencilLaser G 6080 is simple. Select a frame from the customized library, load the stencil, select the cutting job and push start. Easy to understand touch-screen menus guide the operator. A multi-level user architecture of the machine operation software allows extensive customization for managers and administrators, without compromising safe and simple operation.



LPKF's EasyEdit software is the most powerful stencil editor on the industry.

It streamlines the customization process by applying modifications in aperture shape and dimensions either globally or individually. EasyEdit features include:

- One-click aperture modification
- Full scalability of aperture dimensions
- Custom libraries for automated aperture modifications
- Special cutting routines
- One-click data matrix code or barcode generation for stencil marking

LPKF StencilLaser G 6080



Fast Setup: Loose Foils and Framed Stencils

The LPKF StencilLaser G 6080 automatically adjusts to fit stencil size up to 740 x 950 mm (29.1" x 37.4"). Loose metal sheets can be cut in a reusable clamping and stretching frame that does not require any tools to load and mount of the material. The StencilLaser G 6080 does not require any adaptors to handle sheets and stencils of various sizes.



The latest feature in LPKF StencilLaser systems is their capability to be integrated into an automatic handling process. The StencilLaser G 6080 model year 2011 is equipped with a handling interface according to SMEMA standard, enabling the system to be connected to any auto-loading device. The automatic width adjustment allows the operation of a mix of stencil frames and even loose sheets without requiring any changeover or process stoppage.



Micromachining Capability

The LPKF StencilLaser G 6080 offers power and efficiencies well-suited to a variety of applications. In addition to the ever-growing stencil market, micromachining of mechanical parts is another lucrative application for the LPKF StencilLaser G 6080 system. The system is capable of cutting metal sheets up to 1,000 μm (40 mil) thick with superior precision.

Assured Quality

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

Easy Rework

The integrated LPKF vision system allows stencils to be re-worked with easy setup and high accuracy.



The new LPKF Real-Time Process Control (patent pending) monitors the cutting process for every aperture. If an undesired cutting result is detected,

the LPKF Real-Time Process Control automatically optimizes the cutting parameters without wasting production time. This real-time process is significantly faster than a post-process visual scan. This feature allows skipping a tedious and time consuming post-process inspection of a stencil.

The G 6080's reliable production schedule and assured quality control is a highly desirable benefit for every solder paste stencil production. 100% quality does not have to be an illusion any longer. The LPKF StencilLaser G 6080 makes it a reality.

Designed for 24/7 Use

The LPKF StencilLaser G 6080 is designed for permanent and professional use with minimal maintenance requirements. In addition the following features help to save money.

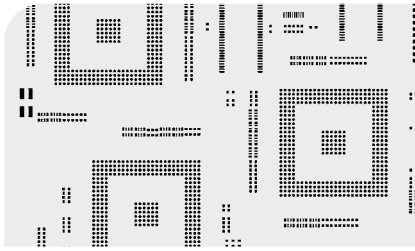


The proven LPKF LongLife fiber laser technology is now even more efficient, featuring 100% air-cooling. This reduces the system's total power consumption by about 30% while eliminating service and maintenance downtime for any external chiller system.



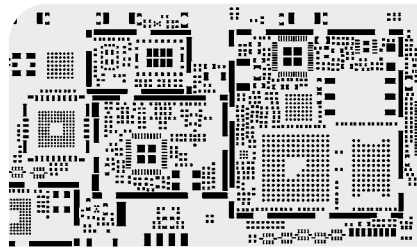
The StencilLaser G 6080 can use either compressed air or oxygen for cutting gas. In fact, it can even be operated with two different cutting gases in the same job. The selection of the gas type, as well as pressure adjustment and monitoring is done fully automatic. The setup is cutting tool dependent, allowing the operator to use the most appropriate gas type for the job at hand. As part of the parameter set, cutting gas is controlled for every single aperture type. This feature helps saving cost on more expensive cutting gases, such as oxygen, while also delivering the highest possible cutting quality where it really counts.

Fast fact reference layouts



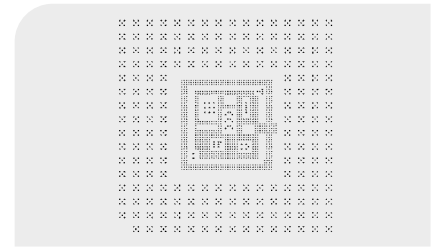
Reference layout A:

Stainless steel, 150 µm (6 mil) thick
 Number of apertures: 14,157
 Speed: Up to 23,400 apertures per hour



Reference layout B:

Stainless steel, 100 µm (4 mil) thick
 Number of apertures: 11,676
 Speed: Up to 30,200 apertures per hour



Reference layout C:

Stainless steel, 40 µm (1.6 mil) thick
 Number of apertures: 18,000
 Speed: Up to 51,200 apertures per hour

Technical Data: StencilLaser G 6080

Speed	Please refer to: Fast fact reference layouts
Cutting range (X/Y)	600 mm x 800 mm (23.6" x 31.5")
Maximum frame size (X/Y)	740 mm x 950 mm x 40 mm (29.1" x 37.4" x 1.6")
Maximum loose sheet size (X/Y)	650 mm x 850 mm (25.6" x 33.5")
Material thickness	Up to 1 mm (0.04")
Laser repetition rate	Max. 45 kHz
Axial precision	±2 µm
Right-angle precision	4 angular seconds
Repeatability	±2 µm
Power consumption	Max. 2,800 VA over all
Dimension System (W x H x D)	1,575 mm x 1,920 mm x 1,820 mm (62" x 75" x 72")
Weight	Less than 2,000 kg (4,400 lbs)

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