



LPKF®
 Laser & Electronics **SL 740**



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The LPKF SL 740 is the newest system in the LPKF Stencil Laser family. It is designed for start-ups, limited use in-house stencil users and those who need a slightly larger format but do not need the speed of an LPKF SL 800 or Turbo Cut. The compromise with the SL740 is speed but not cut quality; the reward for this compromise is lower price. The LPKF laser source is the same as other LPKF metal cutting system (except MicroCut) but the system uses a steel bearing support system instead of the air bearing systems used on other, faster LPKF systems. This bearing system is bolted to a granite table and has a span of approximately one meter; thereby avoiding the errors inherent in other systems which use a narrow support system. The drive is provided by the same proven lead screw and servo motor system used in the original LPKF SL 600.

The SL 740 also features the standard LPKF focus system which eliminates the unreliable and unstable auto-focus system and is supplied with a programmable beam expander which allows for programmable taper (including zero taper).

Cutting Performance	max. 3,000 aperture per hour*
Cutting performance with TurboCut LF III	n/a
Smallest aperture	40µm (1.5 mil)
Cutting area	29.1" x 29.1" (740mm x 740mm)
Maximum sheet size	35.5" x 34.3" (900mm x 870mm)
Maximum cutting thickness	23mil (600µm)
Positioning speed	max. 3.15" per second (80mm/s)
Laser pulse frequency	max. 5kHz
Laser wavelength	1064nm
Angular precision	< 6 arc seconds
Repeatability	+/- 2.5µm
Overall positioning accuracy	+/- 8µm @ 68°F +/- 1°F
Control system	Windows® PC
Software	CAM processing: LPKF CircuitCAM Laser Machine driver: LPKF StencilMaster
X/Y table dimensions (L/W/H)	99"/79"/59" (2,500mm/2,000mm/1,500mm)
Controller cabinet dimensions (L/W/H)	38"/24"/75" (950mm/600mm/1,900mm)
Overall weight	7,710 lb. (3,500 kg)
	*LPKF benchmark test pattern

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