

LASER MICRO CUT

HIGHEST PRECISION METAL PROTOTYPING



The features of our laser cutting systems allow to meet the most demanding needs in terms of both requested tolerance precision and delivery time.

Various types of metals can be worked such as carbon and inox steels series 300, 400, 11R51, 7C27Mo2...

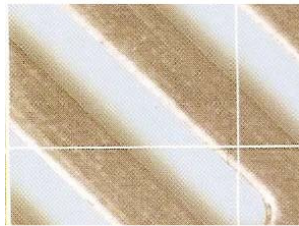
It is also possible to cut Molibdenum, Kovar, Titanium, Aluminium, and Nickel Alloys in general. Thicknesses range from 0,05mm to 0,8 mm.



Tolerances can reach +/- 10 micron and the features of the laser beam (kerf) allow to cut apertures as thin as 30 micron.

The machine allows to work over an area of 800X800 mm with a position tolerance of 5 micron.

The software includes a camera driver which allows to view and check all pieces built.



Major application areas include high precision mechanics and stencils for SMT.

**LEADER IN PHOTO CHEMICAL MILLING AND LASER CUTTING SERVICES, WE BUILD
PRECISION METAL PARTS FROM CUSTOMER'S DESIGN SUITED FOR VIRTUALLY
EVERY MARKET SEGMENT**

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LASER MICRO CUTTING

The process

Laser technology has quickly transitioned from research lab to industrial production. Several features of laser beam make this technology particularly attractive: among all extremely tight tolerances and excellent quality of cut edge like in the new LPKF model 800 we have recently acquired. The cut speed has also greatly improved so that we can now guarantee a fast and reliable delivery to our customers.

The tolerance of this system is as tight as 3 micron on the whole working area of 800X800 mm. This system is also equipped with a camera for continuous control of parts being cut.

With our new Laser Department we can offer the following benefits:

Speed:	5 days typical turnaround time, down to 24 hours for urgencies
Metals:	Carbon steels, inox steels seriee aisi300, aisi400, 11R51, 7C27mo2, etc
Thickness.	Generally from 0,05mm to 0,8mm
Precision:	Tolerances of +/-3 micron can be achieved
Minimum quantity:	onepiece
Requested doc:	mechanical drawing or sample

Areas of application

The main target fields for Laser micro cut are: very high precision mechanics, stencils for SMT, research labs and Universities, where the requested precision is in the area of below one hundredth of millimetre and where apertures as little as 10 micron are required

