

PRECISION TO PERFECTION

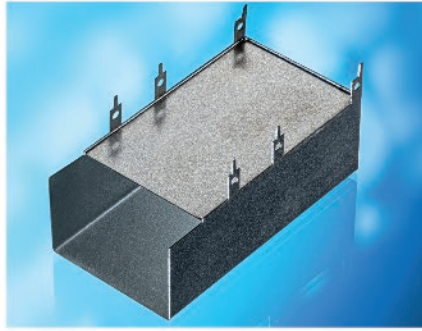
**30 YEARS
KNOW-HOW**



Laser Job Shop

Contract Manufacturing For Laser Micromachining





- Machinery of more than **20 laser systems**
- **Fiber- , Ultra-Short Pulse Laser** or Nd:YAG
- Design & manufacturing of **customized fixtures and devices**
- **Manual** and fully **automated** production
- „**Extended workbench**“: Ramp-up, Batch production, Production peaks

Contract manufacturing with state-of-the-art laser technology is one of the main businesses of LLT Applikation. Whether prototypes, single units or large series, we provide the equipment and the know-how to manufacture your products in quality and on time. If required, we already support you developing the production-ready design of your components.

Portfolio

Laser Job Shop

Component Dimensions

2D: up to 500 mm * 500 mm
3D: up to 200 mm * 300 mm * 300 mm
Tube: Length: up to 5 m, Ø: 0,3 mm - 16 mm

Material thickness: 5 µm - 3 mm

Further dimensions on request

Applications

Cutting, Welding, Drilling, Ablating
 Tube cutting: Radial and Off-Axis

Materials

Metals, Stainless steel, Nitinol, Titanium, Phynox, Platinum-Iridium, Cobalt-Chrome, Magnesium, Brass, Copper, PEEK, Polymers, Ceramics, Glass, Polycrystalline diamonds, Semiconductor materials (e. g. Silicon), PCB materials (e. g. FR4), Further materials on request

Production Batch

Prototypes & single parts
 Small & high volume batch

Positioning Accuracy

Up to $\pm 3 \mu\text{m}$

Machinery & Equipment

20 laser systems (Fiber & Femtosecond)
 Application laboratory
 Fixed optics or scanner
 2D & 3D microscopy
 Grey room area
 Cleaning laboratory

Services

Customized fixtures and devices
 Material sourcing and post-treatment



Certified:

The quality management of our contract manufacturing is certified according to DIN EN ISO 9001:2015.



Sourcing & storage:

Our warehouse stocks a wide range of materials and special materials for 2D, 3D or tubular precision products.



Post-treatment:

With chemical, mechanical or laser treatment we offer several methods to get the perfect finish of laser manufactured precision products.



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