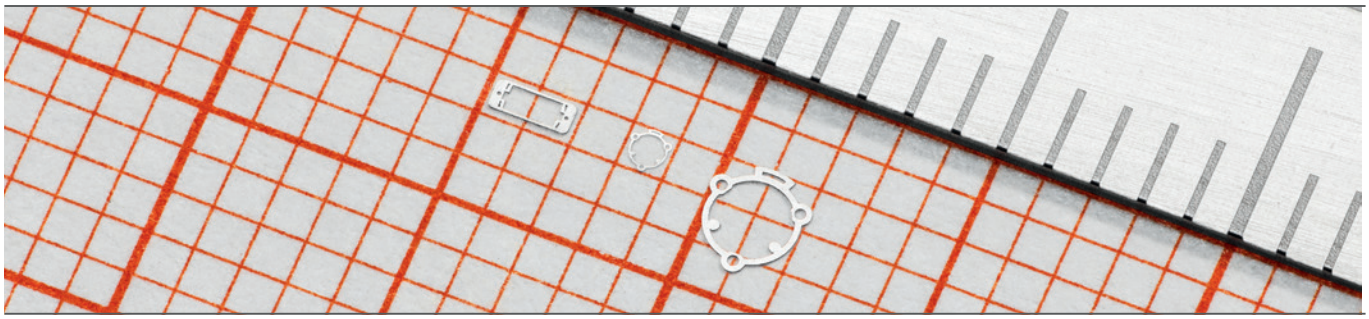
LaserJob

Micro laser cutting



high accuracy
You can rely on our passion for precision: we meet your requirements with millimeter accuracy.

direct contact
Your immediate access to us: Personal contact – fast, easy, and reliable.

no matter the quantity
We create products with precision, whether it's a single piece or a series, perfectly suited for prototypes and custom-made solutions.

reliable shipping times
Benefit from our fast delivery times – thanks to our flexible service, even urgent projects always stay on schedule.

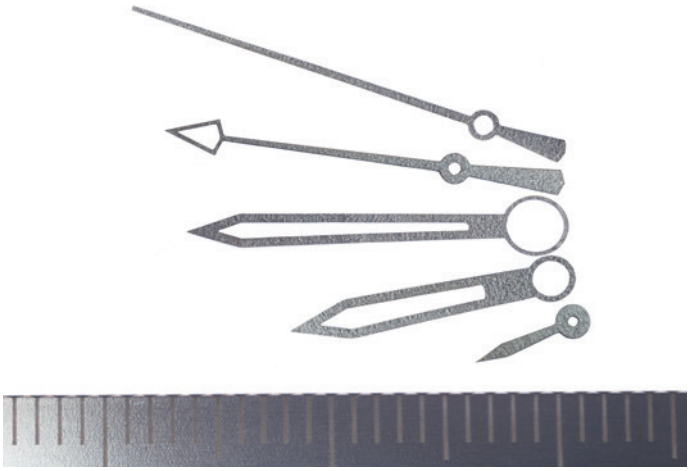
Micro laser cutting – Precise components from 10 µm – for the highest demands

Ultrashort pulse laser (USP) technology enables accurate cuts, complex structures, and fine contours in metallic foils from 0.010 to 0.050 mm. The extremely short pulse duration causes direct material sublimation with virtually no thermal influence, producing burr-free edges and high-quality surfaces.

USP laser processing — also known as "cold ablation" — is ideal for applications requiring maximum precision, such as electronics, medical technology, mechanical engineering, and prototype or small-series production.

Advantages Micro laser cutting

- High-precision cutting from 10 µm feature size
- Minimal heat influence, no material deformation
- Burr-free edges, no post-processing required
- Reliable process control and repeatability
- Suitable for sensitive materials



Micro laser cutting

In-house CAD design

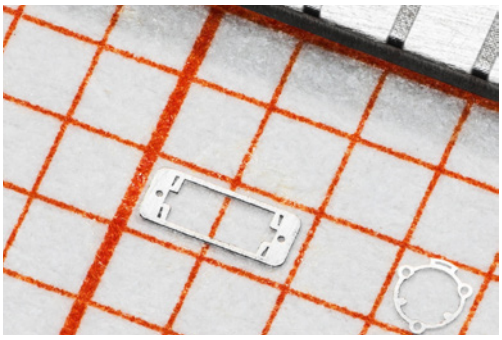
Our team expertly converts a wide range of file formats – including DXF, DWG, IGES/STEP, and all common 2D and 3D data – into precise production files that fully match your specifications. We also handle image files such as JPEG, TIFF, and Photoshop documents. Even from your drawings – whether meticulously designed or hand-sketched – we can create highly accurate cutting data for our lasers, ensuring flawless results down to the finest detail.

Materials for micro laser cutting

- **Metals and metal alloys**
  From aluminum and copper to precision alloys – the process is suitable for a wide variety of metals. When processing extremely thin materials with thicknesses of 0.010–0.020 mm, we recommend the use of a specially adapted fixture, which we can design and manufacture in-house to meet your exact requirements.
- **Plastics**
  Even technically demanding or temperature-sensitive plastics can be processed precisely without deformation.
- **Special materials: glass, ceramics, diamond, sapphire**
  Likewise, extremely hard or brittle materials such as glass, ceramics, sapphires, and diamonds can be cut without contact, gently and precisely. This opens up innovative possibilities for high technology, optics, and medicine.

Quality & manufacturing conditions

- Air-conditioned manufacturing environment for process stability
- In-house developed special machines
- Machinery with 20 systems & redundant capacities
- In-house design & CAD data preparation
- Fast turnaround times
- Minimal reworking thanks to the highest cutting quality



Our Service Offer

Fast, reliable, and flexible order processing

When it comes to laser material processing, it is almost impossible to give general delivery time estimates. The requirements and projects are too varied. We do everything in our power to fulfil your wishes—personally, flexibly, and reliably. Contact us if you need something done particularly quickly!

Comprehensive consulting

At LaserJob, we place great importance on personal support and individual consulting—from the initial idea to series production. Our many years of experience and comprehensive expertise make us your strong partner in all matters relating to manufacturing and design.

Transparent quality assurance and documentation

- ISO 9001:2015 certified quality management
- Individual measurements and tests possible
- Complete documentation (material certificates, initial sample test reports, CoC, serial number management, etc.)

We also offer:

- In-house CAD design
- In-house fixture construction including 3D printing
- Sample production
- Data archiving
- Customer material storage
- Test reports/initial sample test reports
- Material certificates
- Complete processing
- Multi-shift operation
- Redundant machinery
- Data security
- Maximum flexibility

Extensive material warehouse

LaserJob maintains a large in-house stock of stainless steel and various other metal sheets and foils, ensuring consistent material availability and short lead times. Material test certificates (e.g. according to EN standards) can be provided upon request. Stainless steels with special properties — such as increased tensile strength, fine-grain structure, or specific surface finishes — can also be procured at short notice if required.

Shipping and packaging

Shipping

Daily shipping: We ship your orders daily with DHL Express.

Custom shipping options: Upon request, we may also use UPS, FedEx, DPD, or other shipping providers of your choice.

Diverse transportation options: We also offer direct deliveries and courier services with experienced partner companies. This allows us to respond flexibly to your requirements and delivery dates.

Packaging

Securely packaged: To prevent damage, all products are carefully packaged in a manner appropriate to the material – we are also happy to follow your individual specifications.

Special solutions for stencils: We offer special storage bags for our stencils in the tensioning system, which ensure optimum protection and convenient handling.

Customer-specific return packaging: Would you like to use your own packaging solutions? No problem! We are happy to support you in the development and integration of customer-specific return packaging into our shipping process.

Order

To ensure prompt processing of your inquiry or order, please send us your order and a drawing in the following format: DXF, DWG, IGES/step, or other common 2D/3D formats to **mail@laserjob.de**

Kontakt

LaserJob GmbH
Liebigstrasse 14
82256 Fürstenfeldbruck

Telefon: +49 (0) 8141/ 52778 - 0
Email: info@laserjob.de
Requests and orders: mail@laserjob.de

www.laserjob.de