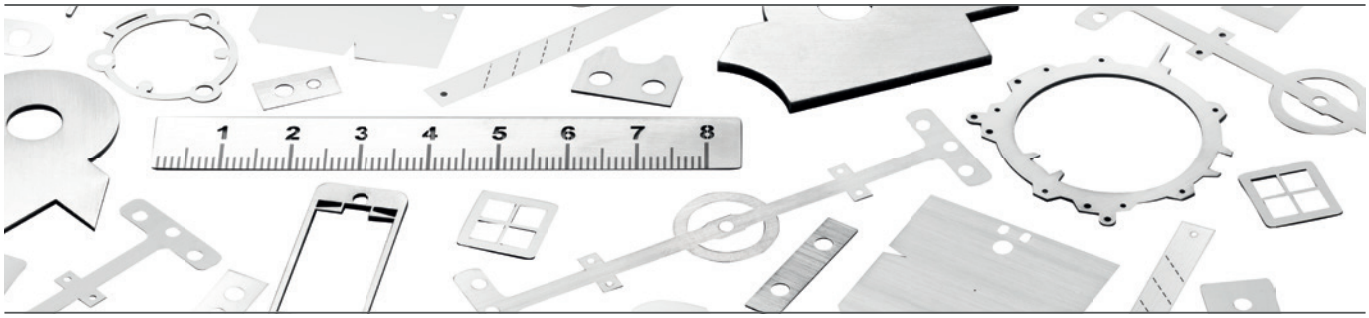
LaserJob

Laser cutting



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

adept knowledge
Benefit from the extensive knowledge and expertise of our professionals and receive personalized guidance.

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.

Laser cutting

We cut in micro dimensions – with the utmost precision, care for the material, and strict adherence to your specifications. Using our in-house developed high-performance fiber lasers, we process areas up to 600 × 2000 mm or 1000 × 1000 mm and create even the most delicate geometries from metallic foils as thin as 0.010 mm. Our micro-precise laser processing minimizes distortion, preserves material properties, and delivers flawless edge quality.

From single components and prototypes to full-scale series production, we cut, weld, ablate, and mark with unmatched precision. Upon request, our trusted external partners can also handle mechanical post-processing such as bending, countersinking, milling, and drilling. With decades of experience, continuous innovation, and a passion for perfection, we are a reliable partner to the automotive industry, medical technology, precision engineering, electronics manufacturing, and aerospace sectors.

Benefits of our laser manufacturing:

- Exactly according to your specifications
- With minimal edge roughness and burr formation
- Virtually distortion-free
- With technical understanding for your project
- From a quantity of 1

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

As standard, we process the metals and alloys listed in the table within the specified thickness ranges. Our experts are always available to advise you on additional materials, and you are welcome to provide your preferred material at any time.

When working with ultra-thin materials between 0.010 and 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.

Material	sheet thickness from [mm]	sheet thickness to [mm]
Stainless steel	0,010	3,0
Aluminum AlMg³	0,010	3,0
Aluminum anodized	0,010	3,0
Copper Cu/ E-Copper	0,010	0,8
Bronze CuSn	0,025	0,8
Brass CuZn	0,010	1,0
Nickel	0,10	1,0
Titanium	0,10	2,0
Invar36	0,050	3,0
Tinplate	0,010	2,0
Nickel silver	0,10	1,0
Silver	0,10	0,8
Tantalum	0,10	1,0
Gold Au	0,20	0,8

Post-processing techniques

Our precise cutting technology enables us to deliver components with minimal or no burrs as standard.
The following post-processing methods are available for special requirements:

- **Brushing**
  We use a CNC-controlled brushing process to remove cutting burrs on the laser exit side. The brush head moves in a meandering pattern in four directions across the surface to ensure uniform processing.
- **Polishing and manual deburring (grinding)**
  For delicate parts with a material thickness of less than 0.2 mm, we recommend manual deburring. This method ensures maximum precision and protects sensitive workpieces.
- **Vibratory finishing (barrel finishing)**
  This process is suitable for parts with a material thickness of 0.5 mm or more and a maximum size of 50 x 50 mm. In drums with a capacity of 5 or 10 liters, the workpieces are processed by friction with abrasive media, which rounds the edges and improves the surface quality.

Through our extended workbench, we can offer you a wide range of surface treatments, such as:

Technical surface treatments such as electroplating, passivation, black oxide finish, gold plating, sandblasting, electropolishing, and anodizing

Machining such as turning, milling, countersinking, bending, grinding, reaming, and other machining operations

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

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