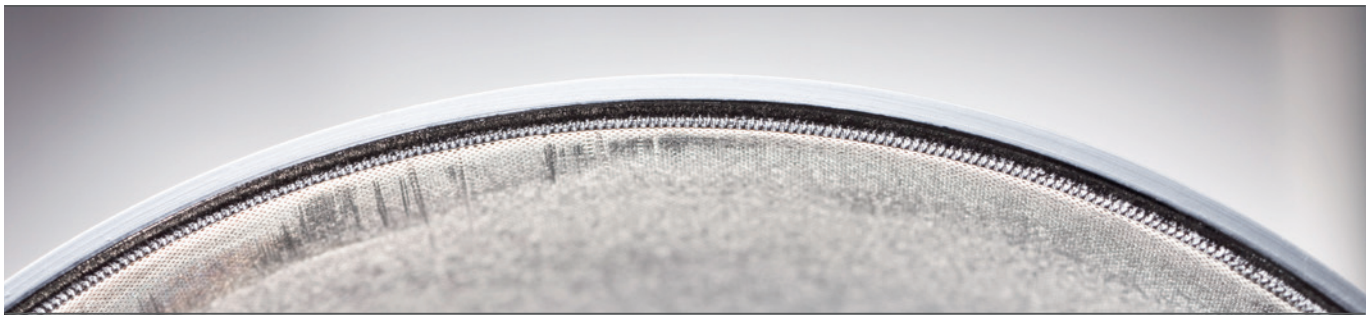
Laser welding



adept knowledge
For process-reliable design, LaserJob supports you right from the planning stage of your components – and with our specialists, this collaboration results in true top quality: individual, precise, and at the highest level.

stable and sealed
For the highest demands: our micro welds offer long-term stability and, if required, are reliably tested for leak tightness.

no matter the quantity
Whether one piece or a full series, we manufacture with precision – perfectly suited for prototypes and customized solutions.

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

Laser welding at LaserJob – precision connections with system

LaserJob offers high-precision **laser welding** and **micro welding** for demanding metal joints – durable, stable, and with minimal thermal influence. Whether fine micro connections or complex geometries in stainless steel, our advanced laser technology, many years of experience, and **strong commitment to quality** ensure manufacturing exactly to your specifications – process-reliable from quantity 1. We understand the challenges of complex projects and stand by your side as a personal and **solution-oriented partner.**

Advantages of our laser manufacturing

- Variable welding depth up to 2.5 mm
- Minimal heat-affected zone
- Visually clean weld seam
- From a quantity of 1

Laser-compatible design

The quality and strength of a laser weld depend largely on the materials used and the way individual parts are joined. LaserJob supports you during the planning and development stages to ensure a reliable and stable process. Our specialists are happy to provide expert advice tailored to your application

Leak testing

We use three recognized methods to test the leak tightness of welded joints:

- Water bath test
- Vacuum test
- Pressure drop test

Each of these methods has specific advantages and areas of application. We are happy to assist you in achieving perfect results.

Materials

The following materials are suitable for optimal welding results:

- Stainless steel
- All chrome-nickel steels
- Nickel
- Invar
- Pure aluminum (99%)
- Copper
- Copper alloys such as brass, bronze, and high-performance alloys such as Ampcoloy
- Silver

These materials enable precise, low-distortion, and stable weld seams.

For all projects, care must be taken to use batch-pure materials to ensure consistently high quality.

Metal alloys containing sulfur, lead, zinc, or high carbon content can only be welded to a limited extent. Individual welding tests are required in these cases.

We have an extensive stock of filler materials in the form of wires or rods for a wide range of applications in thicknesses from 0.2 to 1.0 mm.

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

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, 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

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, step to **mail@laserjob.de**

Please note that the parts to be processed must be clean and free of oil and grease. An adjustment or release sample would also be ideal.

If you supply the material, we always require some additional material to set and fine-tune the optimal welding parameters.

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