

3D-Metal Printing

The Selective Laser Melting (SLM) process enables the production of complete components layer by layer, starting from a bed of metal powder. The 3D CAD model of the component is sliced up into single layers and the component is printed afterwards layer by layer. This allows the printing of complex components in a single production process, which was not possible by traditional production methods before. The rapid prototyping process produces a workpiece without using a mold for casting or milling, exclusively on the base of the 3D CAD data.

LaserJob Rapid.3D – Ihr JobShop for 3D-Metal Printing

Since 2017 we have been dealing with the manufacturing of 3D components made of metals. We are specialized in the production of prototypes, samples and small series with short delivery times. As a complete service provider we support you with the data preparation, the construction and the finishing processes of the 3D component. Our particular strengths are components with very complex and filigree structures.

We mainly process stainless steel 1.4404, but we can process other stainless steel materials, as well, like stainless steel 1.4301. In addition, we offer steel alloys 1.2709, as well as titan or alumina. For the production of the 3D components we use state-of-the-art equipment by company Trumpf. With this SLM-system we can print components with a diameter of 100 mm and a height of 100 mm.

CAD Construction

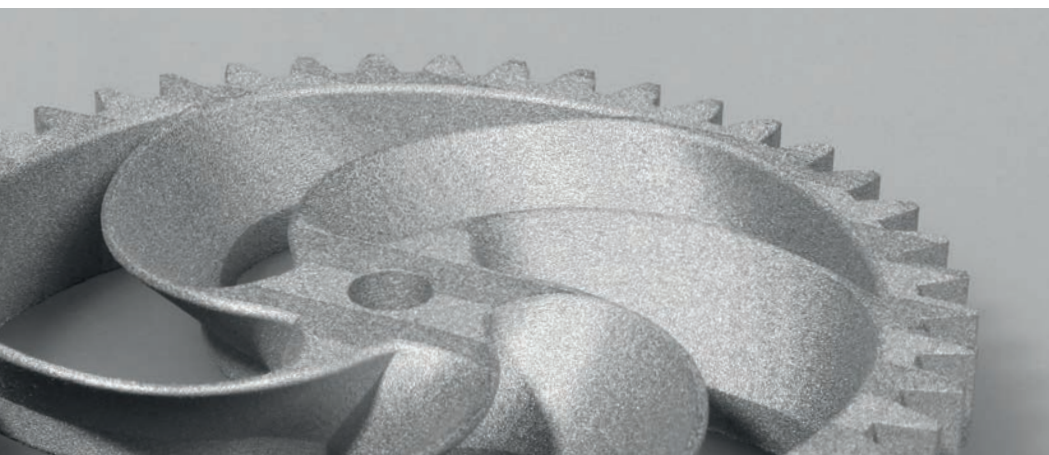
A successful 3D-metal printing process requires an ideal planning of the CAD construction. Ideally, we need the 3D drawing of the component in STL- or STP-format. If this is not possible, you can send us the drawing in a 2D format. We will gladly support you in every phase of the formation process of your component from the 3D data preparation right up to the construction process.

Surface Finishing

All pieces which are produced using a 3D-metal printing method show a characteristic surface, which can be traces of each single layer. To present you the piece according to your requirements, we offer post processing like polishing, grinding and coating.

Our strenghts – Your advantages:

- Production of prototypes and small series
- Complex component geometries and filigree structures
- Support with the 3D data preparation
- Support of surface finishing processes
- Short delivery time



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Laser Material Processing

In addition to the 3D-metal printing process we offer the classical laser material processing, like laser cutting, laser welding, laser drilling, laser labeling and laser ablation. The specialty of LaserJob is the treatment of very thin metallic foils of 0.010 mm with small tolerances of $\pm 0,005$ mm. For more information check www.laserjob.de

Service

LaserJob Rapid.3D supports you with a highly qualified and motivated team. Precise coordination with your requirements and project flexibility are trademarks of our service. We can deliver our products from single pieces up to series production within 10 days after order entry.

Wir offer additional

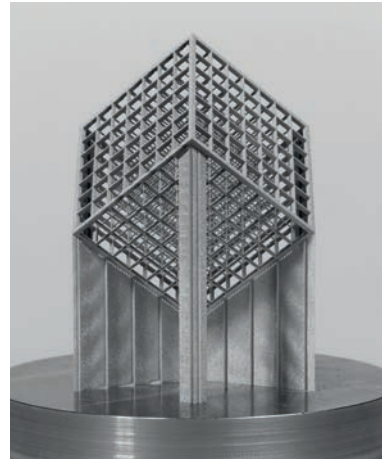
- Prototyping- and sample production
- Surface finishing
- CAD construction
- Data storage
- Inspection sheet or initial sample test report
- Complete execution

Order Process

For a complete and fast order processing, please send us the drawing of the parts with tolerances in a format: STP, STL, IGES, DXF, DWG. To guarantee fast handling of your order, send the purchase order via

- e-Mail: mail@laserjob.de
- fax: +49 (0) 8141 52778-60
- post

We are ISO 9001:2015 certified



LaserJob data sheets

- 1.0 SMD stencil
- 1.1 NanoWork®-stencil
- 1.2 PatchWork®-stencil
- 1.3 Tensioning system LJ 745
- 1.4 Frames and tensioning systems
- 1.5 Repair and Re-balling stencil
- 1.6 Wafer bumping-stencil
- 1.7 LTCC Via fill-stencil
- 2.0 Laser Material Processing
- 3.0 Additive Manufacturing

Auch in Deutsch erhältlich.

