

## MBFZ toolcraft GmbH

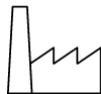
www.toolcraft.de

toolcraft is a trailblazer in pioneering technologies such as 3D printing in metal and the construction of individual turnkey robot solutions. Here, the company provides the entire process chain in-house – from the idea and production, right up to the qualified part in the areas of CNC machining, 3D printing in metal, as well as injection molding, electrical discharge machining, and mold making. Customers include market leaders from the fields of semi-conductor technology, aviation and aerospace, medical technology, the optics industry, specialist mechanical engineering, as well as motorsport and automotive technology. The medium-sized family company based in Georgensmünd and Spalt, Germany, was founded in 1989 by Bernd Krebs.



**NUMBER OF EMPLOYEES**

403



**INDUSTRY**

Manufacture of precision components along with automation solutions



**SALES**

EUR 39.5 million

**APPLICATIONS**

- 3D printing in metal (Laser Metal Fusion, Laser Metal Deposition) laser marking

**TRUMPF PRODUCTS**

- TruPrint 3000 TruLaser Cell 3000 TruMark Station 7000

toolcraft is a pioneer in new manufacturing technologies, such as 3D printing in metal, and the construction of customized turnkey robot solutions. Their customers come from the aviation and aerospace industry, the semiconductor industry, medical technology, as well as the automotive and energy sectors. A close, partner-like cooperation with the development departments of customers, research institutes, and universities is an integral part of the company philosophy. Here toolcraft always aims to be directly involved in the development of new trend technologies, and to be able to offer the best complete solution on the market together with their partners. From the idea, to production, right up to the qualified part – the company covers the entire process chain in-house. **Challenges** Around seven years ago, the management board of toolcraft made a landmark decision: 3D printing using metal was to be the next innovative production technology that the company was going to invest all of its efforts in. The high-tech company looked for a partner on the same wavelength to introduce a complete solution – a partner that you could deliver top performance with. To this end, the company tested systems from different manufacturers of additive manufacturing systems on the market.



"TRUMPF has a clear advantage in that they develop the laser themselves, and know how to handle the medium. In conjunction with the highest standards for their own machines, for us, the company is the perfect partner in the field of 3D printing with metal."

**CHRISTOPH HAUCK**  
MANAGING DIRECTOR OF TOOLCRAFT



**Solution** As a customer in the field of laser marking systems, toolcraft was already familiar with and had held TRUMPF in high regard for many years as an expert and pioneer in the field of laser processing. As they were a satisfied customer, the company also included TRUMPF as a manufacturer of 3D printers for industrial manufacturing in the selection process. Above all, toolcraft was impressed with TRUMPF's overall concept, comprising of sophisticated machines, external industrial part and powder management, intelligent monitoring solutions, as well as comprehensive services and digitalization solutions – and they made the decision to invest in several TRUMPF machines. toolcraft was also delighted by the high machine utilization rate. This is due to the fact that the build and supply cylinders can be changed quickly and safely for work parallel to production, meaning that downtimes are reduced to a minimum.

**Implementation** toolcraft invested in the construction of a new additive manufacturing facility. When fitting it out with machines, toolcraft decided on several TruPrint 3000 systems, as these are "fully integrated solutions" and have optimal peripheral solutions before and after the LMF process. The specialists were particularly impressed by the fact that, compared to other systems, the industrial part and powder management process is much better and can be integrated easier. In addition, the intelligent monitoring solutions ensure optimal transparency over the LMF process. Another advantage was that the system and the laser come from the same company, and are perfectly coordinated with each other.

**Outlook** toolcraft has since invested in their fifth TruPrint 3000 system. Together with TRUMPF, the company would like to continue shaping the additive manufacturing process in an even more cost-effective manner, and to further improve performance and component quality in regards to the parameters. Both toolcraft and TRUMPF are convinced that both companies can continue to benefit from the cooperative exchange in the future, and they can advance additive manufacturing technology with combined efforts.

