

## **Company Profile**

3D Laser BW GmbH & Co. KG, Company Profile, Status 2025

### **3D Laser BW GmbH & Co. KG at a Glance**

Precision in Every Layer

3D Laser BW GmbH & Co. KG, headquartered in Kirchheim unter Teck, Germany, is a leading specialist in the additive manufacturing of metal components, using Selective Laser Melting (SLM) also known as Laser Powder Bed Fusion (LPBF). For over a decade, the company has been developing customized manufacturing solutions for demanding industries such as automotive, aerospace, motorsports, defense technology, special machinery and tool and tool making.

3D Laser BW positions itself as a full-service development partner: from project management and engineering to additive manufacturing, CNC-post-processing, surface finishing and assembly – all services are provided from a single source. As part of the BENSELER group, customers also benefit from access to a broad range of coating and deburring technologies.

### **Portfolio**

The service portfolio of 3D Laser BW covers the entire process chain of additive metal manufacturing:

- Additive manufacturing using Selective Laser Melting (SLM) for complex geometries and function-integrated components
- 5-axis CNC machining for precise fits, defined surfaces, and complex contours
- Design and topology optimization for weight reduction and functional integration
- Complementary processes from the BENSELER Group such as e-coating (KTL), PVD coating, powder coating, and various deburring technologies

### **Technological Expertise**

In the field of additive manufacturing, 3D Laser BW utilizes state-of-the-art SLM systems and processes materials such as aluminum, stainless steel, titanium, and high-performance alloys (e.g., Inconel). The layer-by-layer construction from metal powder enables the production of dense, high-strength components with excellent dimensional accuracy. CNC post-processing is carried out on high-precision 5-axis machining centers, supported by CAM-based manufacturing planning.

## **Quality**

3D Laser BW ensures the highest quality through comprehensive quality assurance—from material testing and machine calibration to component validation using 3D measurement technology. Processes are designed for maximum reproducibility, dimensional accuracy, and functional reliability. All relevant production steps are fully documented.

## **History**

- 2011 – Founded with a focus on additive manufacturing using LPBF technology
- 2014 – Expansion of the machine park with an EOS M 290
- 2015 – Investment in a 5-axis Hermle C 400 machining center and introduction of Hypermill
- 2018 – Integration into the BENSELER Group
- 2019 – Expansion of AM capacity and introduction of 3D Expert
- 2023 – Rebranding and expansion of manufacturing capacities
- 2024 – Growth to 7 employees and establishment of a fully integrated process chain
- 2025 – Website relaunch with a comprehensive service and information offering

## **Responsibility & Sustainability**

As part of the BENSELER Group, 3D Laser BW follows a sustainable and responsible approach to production and corporate management. Resource efficiency, environmentally friendly processes, and collaborative partnerships with customers, employees, and suppliers are at the core of its activities.