

DMP MACHINE SERIES

3D Printing Systems for Industrial Production of Micro Metal Parts

Unique Detail Resolution and Highest Process Accuracy





DMP MACHINE SERIES

The DMP machine solutions are designed for flexible series production of complex metal components using micro laser sintering.

The DMP systems are the perfect solution to achieve:

- Superior detail resolution
- Highest surface quality
- Unrivalled accuracy
- Very high part density

They offer high flexibility, low operating costs, and user-friendliness. The systems include a zero-point clamping system for easy post-processing at the highest accuracy-level and inert gas atmosphere including gas purifying based on industry standards.

The DMP systems are able to process nonreactive and reactive materials, e.g. stainless steel, molybdenum, tungsten, titanium, gold, and other materials.

SYSTEM CONFIGURATION

Build volume (L x W x H)	60 mm x 60 mm x 30 mm
Build rate	330 mm ³ /h (typical)
Laser source	Fiber laser 50 W (optionally 200 W)
Precision optics	High speed galvo scanner
Layer thickness	≤ 5 µm
Lateral resolution	Down to 30 µm
Surface roughness	Down to 2 µm (R _a)
Laser spot diameter	< 30 µm
Process atmosphere	Argon: < 1 ppm (O ₂ ; H ₂ O)
Inert gas consumption	< 30 l/h Argon
System dimensions	2,494 mm x 1,452 mm x 2,506 mm (L x W x H) Weight: approx. 1,800 kg