

Additive Manufacturing



Benefits of Additive Manufacturing

- Freedom of design: Integrate functionality without assembly.
- Cost advantages: Efficient for small series runs.
- Customization: Design to specification.
- Faster time to market: Quick feasibility feedback for your proof of concept.

Materials

- Metals: Stainless steel 316L, Molybdenum, Tungsten, Titanium
- Ceramics: Alumina, Zirconia

Micro Laser Sintering

- Accuracy $\pm 5 \mu\text{m}$ up to 10 mm
- $>32 \mu\text{m}$ wall thickness
- Small size holes $\varnothing < 100 \mu\text{m}$
- Surface roughness without post processing: $R_a 2,0 \mu\text{m}$; $R_z 13 \mu\text{m}$
- Surface roughness after post processing: $R_a 0,7 \mu\text{m}$; $R_z 2,7 \mu\text{m}$

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