



ZRapid



ZRapid iSLM420

Metal Additive Manufacturing Machine

Innovator of China 3D Printing Technologies



► Technical Parameters

Supporting materials	Steel Alloys, Aluminium Alloys, Titanium Alloys, Nickel-based Alloys, Cobalt-Chrome Alloys, Copper alloy, Precious Metals, etc.
Bulid Volume	420mm(X)*420mm(Y)*450mm
Maximum part weight	150KG
Laser Power	500WX2/500WX3/500WX4
Wave length	1060nm~1080nm
Layer Thickness	0.02mm~0.15mm/20µm~150µm
Scanning Speed	1.0 ~10.0 m/s
Beam (diameterΦ)	0.06mm-0.2mm
Recoating	Single/Double-direction
Oxygen Content	≤100 ppm(adjustable)
Gas Requirement	Nitrogen, Argon
Software	ZERO 4.0 PRESTO software, ZRapid 3D Layer, Magics
Supply Voltage	380V (±10%), Three-phases, 25Amps, ≤8 KW
External Dimensions	2.65m(W) X 1.45m(D) X 2.70m(H)
Machine Weight	Approx. 2800 kg



ZRapid



► The advantages of iSLM420

- 🖨 Premium Brand hardware with $\pm 0.01\text{mm}$ repeatability and fiber laser for precision manufacturing
- ✍ Dual printing modes (Quality/Fast) with fully open GCode parameters for flexible control
- 📁 Closed-loop feeding and automatic sieving ensure stability for large-scale production
- 📅 H13 filtration with real-time O_2 monitoring and powder-isolated operation
- 🏠 Compatible with 30+ metals and customizable Building Cylinder
- 🔧 Long-life filters (30000hrs) and smart powder management minimize operational costs
- ⚙ Full parameter logging and real-time monitoring meet aerospace-grade traceability
- 🌐 800+ global installations with CE/ISO/ATEX certification and complete training support

► iSLM420 Application Cases



Stainless steel

Aluminum alloy

Nickel base super alloy

Mold steel

► Automation Solutions



Vacuum oven

Sand blasting machine

Metal powder sieve

Optional Accessories