

ZRapid iSLM280 Ultimate Technical Specifications

LASER	
Type	Fiber Laser (IPG)
Wavelength	1064nm
Laser Power	500W (upgrade up to 2x500W)
RECOATING SYSTEM	
Process	Single or double side coating
Normal build style	0.05mm
Quick build style	0.05-0.15mm
Precision build style	0.02-0.05mm
OPTICAL & SCANNING	
Beam (diameter @ 1/e ²):	0.06~0.20 mm
Focus style	Scan Lab High-speed galvanometer
Reference Building rate	4~20 cm ³ /h
Blank Jumping Speed	10.0 m/s (recommended)
BUILD VOLUME	
Volume	Approx. 27.5L
XYZ platform	280mm(X)*280mm(Y)*400mm (Z) including building platform
Heating style	Precision resistance wire heating
Gas shielded	Nitrogen, argon
SOFTWARE	
Network	Windows 10 Pro, Ethernet, IEEE802.3
Control Software	iSLM ZRapid Software
Data Preparation Software	3D Layer, Materialise Software (optional)
Compatible formats:	SLC file, CLI file, STL file
INSTALLATION CONDITION	
Power	220-240VAC 50/60Hz, Single-phase, 16Amps
Ambient temperature	20-26°C
Relative humidity	Less than 40%, non-condensing
Machine Size	1.80m (W) x 1.40m (Y) x 2.30m (Z)
Machine Weight	Approx. 2000 Kg
WARRANTY	
Laser	5000 hours or 12months (whichever comes first)
Main Machine	one (1) year from the date of installation date



The 3D Printer Experts



ZRapid iSLM280 Ultimate

Selective Laser Melting System (SLM)

Industrial Additive Manufacturing Solution



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ZRapid iSLM280 Ultimate

Complete, High-Speed Affordable AM Solution

Technology: Selective Laser Melting

Build Size (XY): 280mm(X) x 280mm(Y)

Build Size (Z): 400mm(Z) including building platform

iSLM280 Ultimate Technical advantages

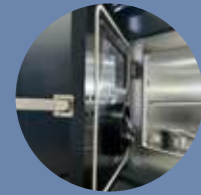
High Accuracy: Achieves up to 0.05mm, ensuring precise manufacturing.

Efficient Optical Scanning: High-speed scanning galvanometer with adjustable beam diameter (0.06~0.20 mm) enhances productivity.

Top Components: iSLM280 is manufactured with high quality components such as IPG Laser, Scanlab Galvos, Siemens PLCs, Omron sensors.

Open Parameters-Open Materials: more than 200 parameters are available to users

Open Software: GCode editing and custom parameters



Side Access Door

Easy access to the printer chamber without disturbing the atmosphere inside.



Glove Box Design Front Door

Allows daily maintenance without contact with powder material.



Extended Filter Change Intervals

Unique filter-cleaning automation reduces cost and labor.



Wide variety of Materials

Stainless Steel / Die Steel / Titanium Alloy / Aluminum Alloy / Co-Cr Alloy / Nickel Alloy / Cuprum, etc.



Laser Power Upgrade

Depending on the model, laser power can be up to 1kW (2x500W)



Single or double side recoating

1/2 material needed and 1/2 time saved



Powder recycling unit

The iSLM280 supports the AFS280 which can automatically screen and realize automatic powder recycling and reuse without manual sieving.



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