

# Z Rapid SLM I 50 Metal 3D Printer Specifications

Technology: Selective laser melting, additive layer manufacturing  
 Material Class: Metal Powder(stainless steel, die steel, nickel alloy, aluminium alloy, titanium alloy)

LASER SYSTEM	
Type	Fiber Laser (IPG)
Wavelength	1070nm
Laser power	200mW
RECOATING SYSTEM	
Process	Scraper recoating
Normal build style	0.04mm
Quick build style	0.04 ~ 0.1mm
Precision build style	0.02 ~ 0.04mm
OPTICAL & SCANNING	
Beam (diameter@1/e <sup>2</sup> )	0.05-0.15mm
Focus style	ScanLab
Part drawing speed	Recommended 2.0m/s
Beam jump speed	Recommended 10.0m/s
Vertical resolution	0.0002mm
Position repeatability	±0.01mm
Maximum part weight	5kg
RESIN VAT	
Volume	Approx. 4.5L
Build envelope	150mm(X)×200mm(Y)×200mm(Z)
Heated style	Precision resistance wire heating
Gas shielded	Nitrogen, argon
SOFTWARE	
Preparation software	3dMagics 3.0
Build software	ZERO 4.0 build software
CAD interface	3D design software, STL file format
INSTALLATION CONDITION	
Power	200-240VAC 50/60Hz, three-phase, 8Amps
Ambient temperature	20-26° C
Relative humidity	Less than 40%, non-condensing
Size	1290mm(W)×1020mm(D)×1750mm(H)
Weight	Approx.850kg
WARRANTY (Terms & conditions apply)	
Laser	5000 hours or 12 months (whichever comes first)
Main machine	12 months from installation date