

Z Rapid SLM280 Metal 3D Printer Specifications

Technology: Selective laser melting, additive layer manufacturing Material

Material Class: Metal Powder(stainless steel, die steel, nickel alloy,
aluminium alloy, titanium alloy)

LASER SYSTEM	
Type	Fiber Laser
Wavelength	1064nm
Laser power	500W
RECOATING SYSTEM	
Process	2-way Scraper recoating
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)	0.06-0.20mm
Focus style	ScanLab
Part drawing speed	Recommended 1.0-4.0m/s
Beam jump speed	Recommended 10.0m/s
Vertical resolution	0.02mm
Position repeatability	±0.01mm
Maximum part weight	50kg
RESIN VAT	
Volume	Approx. 25L
Build envelope	280mm(X)×280mm(Y)×350mm(Z)
Heated style	Precision resistance wire heating
Gas shielded	Nitrogen, argon
SOFTWARE	
Preparation software	3dLayer
Build software	Presto SLM build software
CAD interface	3D design software, STL file format
INSTALLATION CONDITION	
Power	200-240VAC 50/60Hz, single-phase, 25Amps
Ambient temperature	20-26° C
Relative humidity	Less than 40%, non-condensing
Size	1.70m(W)×1.40m(D)×2.20m(H)
Weight	Approx. 1500kg
WARRANTY (Terms & conditions apply)	
Laser	5000 hours or 12 months (whichever comes first)
Main machine	24 months from installation date