

Metal 3D Printer Specifications

Z Rapid iDent 160

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	1080nm
Laser power	200W
RECOATING SYSTEM	
Process	2-way Scraper recoating
Normal build style	0.03mm
Quick build style	0.04 ~ 0.1 mm
Precision build style	0.02 ~ 0.03mm
OPTICAL & SCANNING	
Beam (diameter@1/e ²)	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	±
Maximum part weight	10kg
RESIN VAT	
Volume	Approx. 2.6L
Build envelope	160mm(X)× 160mm(Y)× 100mm(Z)
Heated style	Precision resistance wire heating
Gas shielded	Nitrogen, argon
SOFTWARE	
Preparation software	3DLayer 3.0
Build software	iSLM 4.0
CAD interface	3D design software, STL file format
INSTALLATION CONDITION	
Power	200-240VAC 50/60Hz, 16Amps
Ambient temperature	20-26° C
Relative humidity	Less than 40%, non-condensing
Size	1.10 m(W)×1.28m(D)×1.85 m(H)
Weight	Approx.850 Kg
WARRANTY (Terms & conditions apply)	
Laser	5000 hours or 12 months (whichever comes first)
Main machine	12 months from installation date