

Stereolithography 3D Printers (SLA)

Compact Series - Technical Specs



SLA100



SLA150



SLA200



SLA300

LASER SYSTEM

Type / Wavelength	Diode-pumped solid-state laser Nd:YVO4 / 354.7nm
Wavelength	354.7nm
Power	250-350mw at Vat depending on material selected, Max 1000mw

RECOATING SYSTEM

Process	Intelligent reduced vacuum press recoater
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OPTICAL & SCANNING SYSTEM

Brand	SCANLAB (Germany)
Beam (Diameter Ø)	0.10-0.18mm
Part Drawing Speed	Recommended 6.0m/s
Beam Jump Speed	Recommended 10.0m/s
Printing Speed	50-100g/h
Accuracy	Part size < 3.9 in (100 mm): ±0.004 in (±0.1 mm), Part size ≥ 3.9 in (100 mm): ±0.1% x L Accuracy may vary depending on build parameters, part geometry and size, part orientation and post-processing methods.

ELEVATOR

Layer Thickness	0.05mm (High Precision Build Mode) / 0.075mm (Precision Build Mode) / 0.1mm (Standard Build Mode) / 0.125mm (Quick Build Mode)			
Vertical Resolution	0.0002mm	0.0002mm	0.0002mm	0.0002mm
Position Repeatability	±0.01mm	±0.01mm	±0.01mm	±0.01mm

RESIN VAT

Volume	2.65L (3 KGS)	11.0L (12.5 KGS)	23L (26 KGS)	56L (64 KGS)
Max Build Size (xyz)*	100 x 100 x 100 mm	150 x 150 x 150 mm	200 x 200 x 200 mm	300 x 300 x 300 mm
Resin heated style	Air or Plate Heating			

SOFTWARE

Operating System	Windows 7, Ethernet, IEEE802.3, TCP/IP
Build Software	Materialise Magic or Autodesk Netfabb
CAD Interface	STL File Format

INSTALLATION CONDITION

Power	200~240VAC 50/60Hz Single Phase 6A			
Ambient Temperature	21-25°C	21-25°C	21-25°C	21-25°C
Relative Humidity	Less than 40%			
Machine Size W x D x H	850 x 1100 x 1800mm	850 x 1100 x 1800mm	850 x 1100 x 1800mm	880 x 1230 x 1890mm
Machine Weight	400 KGS	450 KGS	500 KGS	590 KGS
Tool Set	UV Curing Furnace, Parts Washer			

WARRANTY

Laser	5000 hours or 24 months (whichever comes first)
Main Machine	Two(2) year from installation