

Stereolithography 3D Printers (SLA)

Versatile Series - Technical Specs


SLA450

SLA600

SLA800

SLA1100(Coming Soon)

LASER SYSTEM				
Type	Diode-pumped solid-state laser Nd:YVO4			
Wavelength	354.7nm			
Power	250-350mw at Vat depending on material selected, Max 1000mw			
RECOATING SYSTEM				
Process	Intelligent reduced vacuum press recoater			
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	108L (122 KGS)	219L (250 KGS)	295L (330 KGS)	504L (570 KGS)
Max Build Size (xyz)'	450 x 450 x300 mm	600 x 600 x 400 mm	800 x 600 x 400 mm	1100 x 600 x 450 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	880 x 1230 x 1890mm	1630 x 1240 x 1920mm	1900 x 1450 x 2000mm	1940 x 1550 x 2190 mm
Machine Weight	625 KGS	1150 KGS	1600 KGS	2100 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			