

RSPro450 Stereolithography



SYSTEM FEATURE

- Scanning speed can reach 12m/s.
- Key components are of international top brands, Panasonic of Japan, Spectra-Physics of Germany, Scanlab of Germany.
- Automatic control of surface level and processing parameters.
- Marble recoating platform frame contributes to excellent surface quality and layer thickness of 0.05mm.
- Closed loop control strategy for: Platform movement/Laser power/Resin level resin temperature/Negative pressure
- CE certification.
- Convenient assembly and disassembly of platform.
- Telecontrol system for remote control and order processing.

APPLICATION



RSPro450 TECHNICAL DATA

Build Envelope Capacity	450X450X400mm (Full Vat)
Maximum Part Weight	50 kg
Accuracy	±0.1mm (Part size < 100mm) / ±0.1% (Part size ≥ 100mm) Accuracy may vary depending on parameters, part geometry and size, pre-processing or post-processing methods, materials and environment.
Laser	Solid-state frequency tripled Nd: YVO ₄
Wavelength	354.7 nm
Beam Size	Nominal 0.08-0.12 mm
Scanning Speed	12m/s (Maximum) ; 6-10m/s (Typical)
Controller	RSCON of Union-Tech
Part Preparation	Magics of Materialise
Operating Systems	Windows XP/Windows 7
Input Data File Format	STL
Network Type and Protocol	Ethernet, IEEE 802.3 using TCP/IP and NFS
Layer Thickness	0.05 mm (Min) ; 0.25 mm (Max)
Electrical Requirements	200 - 240 VAC 50/60 Hz, single-phase, 20 amps
Laser Warranty	10,000 hours or 18 months (whichever comes first)
Base Plate	Marble
Pressure Adjustment	Closed-Loop
Weight	1545 kg (with 150Kg initial fill inside)
Power (nominal)	At head 800 mW (typical 300 mW at material surface under nominal optical path condition)

Operating Environment :

Temperature Range	22-26 °C
Maximum Change Rate	1 °C/hour
Relative Humidity	< 40 % non-condensing
Space Requirements Size (WxDxH)	1350X1379X2282mm

Accessories :

Platform Change Carts	Manual offload cart optional
Processing and Finishing	Post-Curing Unit
System Warranty	One-year warranty, under Union-Tech's Purchase Terms and Conditions

