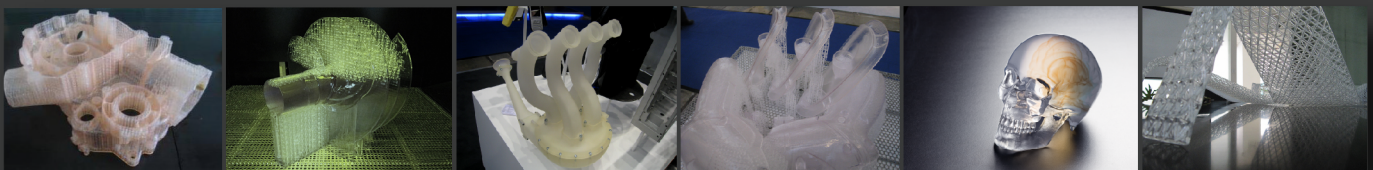# RSPro800 Stereolithography

SYSTEM FEATURE

- Scanning speed can reach 15m/s

- Key components are of international top brands, Panasonic of Japan, Spectra-Physics of Germany, CTI of USA.

- Automatically controlled the surface level and processing parameters

- Marble recoating substrate can realize 0.08mm layer thickness stably to get excellent surface quality.

- Closed-loop control strategy is applied in platform moving, laser power controlling, resin level controlling, resin temperature controlling and negative pressure controlling to ensure accuracy and stability.

- CE certification guarantees the stability and safety of the machine.

- Convenient to assembly and disassembly platform.

- Telecontrol system can realize remote controlling and order-processing.

APPLICATION

RSPro800 TECHNICAL DATA

Build Envelope Capacity	800X800X550mm (Full Vat)
	800X800X300mm (Half Vat)
Maximum Part Weight	150 kg
Accuracy	±0.15mm (Part size < 100mm) / ±0.15% (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: YVO₄
Wavelength	354.7 nm
Beam Size	Nominal 0.12-0.20 mm
Scanning Speed	15m/s (Maximum) ; 6-10m/s (Typical)
Controller	RSCON of Union-Tech
Part Preparation	Magics of Materialise
Operating Systems	Windows® 7
Input Data File Format	Stl, Slc
Network Type and Protocol	Ethernet, IEEE 802.3 using TCP/IP and NFS
Layer Thickness	0.08 mm (Min) ; 0.25 mm (Max)
Electrical Requirements	200 - 240 VAC 50/60 Hz, single-phase, 30 amps
Laser Warranty	10,000 hours or 18 months (whichever comes first)
Base Plate	Marble
Pressure Adjustment	Closed-Loop
Weight	2000 kg (with 520Kg 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 ℃
Maximum Change Rate	1 ℃/hour
Relative Humidity	< 40 % non-condensing
Space Requirements Size (WxDxH)	166x153x212cm

Accessories :	
Platform Change Carts	Manual offload cart optional
Processing and Finishing	PCU-100 Post-Curing Unit
System Warranty	One-year warranty, under Union-Tech's Purchase Terms and Conditions