

RSPro 2100

This innovative three laser scanning additive manufacturing system is perfectly suited for the industrial production of large, high quality finished parts as well as mass part production.



High precision parts with no visible joint lines.



Carbon fiber reinforced recoater system ensures non-deformation across 2100 mm length.



Closed loop control strategy for: Platform movement/Laser power/Material level/Temperature/Vacuum.



Granite recoater frame for enhanced recoating stability.



Automatic control of surface level and processing parameters.



Open design for freedom of choice of materials and software.

Technical Data

* Specifications are subject to change; consult with your sales representative for confirmation of current offering.

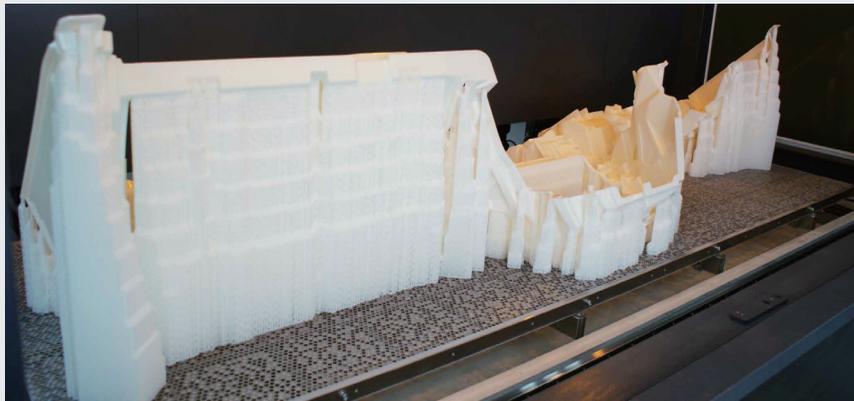
RSPro 2100	
Build Envelope Capacity	82.6 × 27.6 × 31.5 in (2100 × 700 × 800 mm)
Accuracy <small>*Accuracy may vary depending on parameters, part geometry and size, pre-processing or post-processing methods, materials and environment.</small>	L < 100 mm: ±0.2 mm L ≥ 100 mm: ±0.2% x L
Beam Size	0.0039 - 0.0055 in, 0.0295 - 0.0334 in (0.1 - 0.14 mm, 0.75 - 0.85mm)
Layer Thickness	0.004 in (0.1 mm) minimum; 0.01 in (0.25 mm) maximum
Weight	11795 lb (5,350 kg)
Machine Size (WxDxH)	163 × 107 × 109 in (4130 × 2720 × 2770 mm)
Laser	Solid-state frequency tripled Nd: YVO ₄
Wavelength	355 nm
Controller	UnionTech™ RSCON
Data Preparation Software	Polydevs Pro (.cli)
Operating Systems	Windows 7, Windows 10*
Input Data File Format	STL
Network Type and Protocol	Ethernet, IEEE 802.3 using TCP/IP and NFS
Electrical Requirements	200-240 VAC, 50/60 Hz, single phase
Warranty	12 months
Recoater Frame	Granite
Systems Control	Closed-loop
Power (nominal)	Typically 300 ~ 800mW (@100kHz) on the target surface of the material under nominal optical path condition

Operating Environment:

Temperature Range	72–79 °F (22–26 °C)
Maximum Change Rate	1 °C/hour
Relative Humidity	< 40 % non-condensing

Accessories :

Platform Change Carts	Manual offload cart (optional)
Processing and Finishing	Post-Curing Unit (optional)



UnionTech

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