

RAPLAS



RPS
hd+ Resolution as Standard

RAPLAS RPS Resin Production System

Rigid Frame Construction with aesthetic design, large easy access doors and integrated touchscreen operation.

Granite Build Frame for excellent repeatability, accuracy and thermal stability.

SCANLAB IntelliSCAN Dynamic Focusing 3 Axis Scanning System for accuracy, speed, stability and optimum productivity.

HD+ Resolution across the whole build area (0.0008mm) produce accurate small parts anywhere on the platform.

Stainless Steel Build Area & Covers lift-off for easy access and cleaning.

RAPLAS RPL 1W 100kHz Air-cooled Laser for high productivity and low running costs.

RAPLAS Production Systems Flexibility of user specification with many custom and third-party options available without lengthy customer lock-in policies. This creates a flexible SLA system with low on-going operation and maintenance costs with regional support from our professionals with many years experience in applications and service in the RP/AM Industry.



RAPLAS Powered by Materialise

RAPLAS 'Powered by Materialise' Free Customer Site License provides our system customers with the Magics tools for efficient workflow and productivity.

Dedicated file format and machine integration ensures part data integrity and accuracy is maintained with the latest industry standard fix, slice, hatch, build algorithms and protocols.



RAPLAS RPU Resin Post-Curing Unit (optional)

RAPLAS RPU for post-curing SLA & UV models.

Glass Rotational Table for easy cleaning and good light transmission.

Automatic Timer for length of exposure.

Variable power, speed and time controls.

Fast Curing of models for optimum productivity.



RPS 700 HD+ Parameters

Laser		
Wavelength	354.7	nm
Type	Solid State	ND: YVO4
Frequency	100	KHz
Cooling Method	Air	
Max Power (approx)	1w@100kHz, 2w@60kHz	Watts
Dynamic Power Adjustment	Yes	
Recommended Layer Thickness		
Precision	0.05	mm
Rapid	0.1-0.15	mm
Standard	0.1	mm
Optical & Scanning		
Beam Diameter at Vat	0.08 - 0.8	mm Dynamic
Focus Method	Dynamic	
HD+ Resolution (approx)	0.0008	mm
Max Scanning Speed (approx)	20000	mm/s
Elevator		
Vertical resolution	0.0002	mm
Positional Repeatability (+/-)	0.01	mm
Removable Platform	Yes	Standard
No of Build Platforms supplied	2	Standard
Vat Capacity		
Volume (approx)	310	L
Max Build envelope	700x700x400	mm
Interchangeable Vat	Option	
Software		
Control	RAPLAS Z	
Input Data File Format	RPS	
Network Type and protocol	Ethernet, IEEE 802.3	
Power		
Voltage	220-240v 50/60Hz	Single-phase
Power (approx)	20	Amps
Working Environment		
Ambient Temp Range	20-26	Deg C
Humidity Range	Less than 50%	Non-condensing
Size & Weight		
LxWxH (installed)	1.680x1.250x1.985	m
Weight (approx)	1300	kg
Warranty		
	12 months from installation	

Specification subject to change. The above information for guidance purposes only.

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