

SLA 7000 SPECIFICATIONS

Standards and Regulations: This SLA product conforms to Federal Performance Standard CFR21 Subchapter J Class I laser product on normal operation, Class IV during field service. The SLA 7000 complies with CE requirements.

Laser	Type Wavelength Power at vat @ 5000 hrs Warranty	Solid state frequency tripled Nd:YVO ₄ 354.7 nm 800 mW 5000 hours or 18 months whichever comes first
Recoating System	Process * Minimum build layer * Exact * QuickCast * Fast * Tooling style *	Zephyr recoater 0.0254 mm 0.001 in 0.0762 mm 0.003 in 0.1 mm 0.004 in 0.127 mm 0.005 in 0.0254 mm 0.001 in
Optical and Scanning	Beam diameter Maximum part drawing speed	Small Spot 0.23 - 0.28 mm 0.009 - 0.011 in Large Spot 0.685 - 0.838 mm 0.027 - 0.033 in Small Spot 2.54 m/s 100 ips Large Spot 9.52 m/s 375 ips
Elevator	Vertical resolution Position repeatability Maximum part weight	0.00125 mm 0.00004 in +/-0.001 mm +/-0.00004 in 68.04 kg 150 lb
Vat Capacity	Volume Maximum build envelope Other vat sizes available	253.6 L 67 U.S. gal 508 x 508 x 600 mm XYZ 20 x 20 x 23.62 in Yes
Software	3D Lightyear file preparation software Buildstation 5.0 bundled with 3D Lightyear Operating system Input data file format Network type and protocol	Windows NT 4.0 .stl and .slc Ethernet, IEEE 802.3 10/100BASE-T
Power	200-240 VAC 50/60 Hz, Single phase, 20 amps	
Ambient Temperature	Temperature range Maximum change rate Relative humidity	20 - 26°C 68 - 79°F 1°C/hour 1.8°F/hour 10% - 50% non-condensing
Size	Crated process module Accessory kit Uncrated process module	W2.10 x D1.55 x H2.36 m W83 x D61 x H93 in W1.12 x D1.22 x H1.02 m W44 x D48 x H40 in W1.88 x D1.22 x H2.36 m W74 x D48 x H80 in
Weight	Crated process module Accessory kit Uncrated process module	1455 kg 3200 lb 182 - 205 kg 400 - 450 lb 1196 kg 2630 lb
Options	Additional interchangeable vats Additional platforms Post Curing Apparatus PCAs	
Warranty	One 1 year from installation date. Includes parts, labor, and 3D Lightyear software upgrades. Laser under separate warranty.	

*Geometry, build material and parameter dependent. May not be achievable in all cases.

3D Systems 26081 Avenue Hall, Valencia, CA 91355 USA
1.888.337.9786 www.3dsystems.com Fax: 661.257.1200

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France
Tel: 011 (+33) 1.69.35.17.17

Italy
Tel: 011 (+390) 39 6890400

Germany
Tel: 011 (+49) 06151.357.303

UK
Tel: 011 (+44) 1442.282600

Hong Kong
Tel: 011 852 2923 5022

USA
Tel: 001 (661) 295.5600



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