

# SLA<sup>®</sup> 5000 SYSTEM

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Technology:	Stereolithography, SLA
Material Class:	Liquid; Photo Reactive

### Bring industrial-strength performance and part quality to your organisation.

Tested and proven in some of the world's most successful organisations, the SLA 5000 system delivers the performance, part quality, and flexibility your organisation needs to compete at the highest level.

**Build more parts in less time.** The SLA 5000 system's patented SmartSweep technology eliminates unnecessary sweeper motion, resulting in the fastest possible build times; its 0.05 mm build layer\* creates a smooth finish that requires far less post-processing time. Use its large 508 x 508 x 584 mm build envelope to build larger single parts, or more smaller parts at once. And SLA 5000 system's solid-state laser technology will deliver up to 35% more power over the SLA 3500.

**Tackle a full range of solid imaging applications.** The SLA 5000 system is compatible with a range of 3D Systems' stereolithography Accura materials.

**Get economy and reliability that protect your investment.** The SLA 5000 system's long-life solid-state laser and low power requirements ensure a predictable performance and low cost of ownership. Its automatic material dispensing system maintains the vat for you – so you spend less time on maintenance and build preparation, and more time up and running.

**Invest in a proven solution.** A mainstay at companies like GM, AlliedSignal, and Daimler Chrysler, the SLA 5000 system is built to handle mission-critical solid imaging workloads. Depend on it to help you innovate, cut costs, and beat your competition to market with the highest-quality products you've ever produced.

**Count on a total solution.** Every SLA 5000 system includes easy-to-use 3D Lightyear file preparation software. Every system works with a variety of our specially formulated materials, covering a broad range of modelling and prototyping applications. And every system is backed by 3D Systems' Global Support, which you can tailor to meet your production needs and your budget. Turn to 3D Systems' Educational Services for expert hands-on training in the latest solid imaging methodologies and techniques. Tap the resources of the 3D Systems' Technology Center for demos, benchmarks or for additional modelmaking capacity. 3D Systems offers a complete solid imaging solution you won't find anywhere else.



### Use the SLA 5000 system for:

- Plastic Prototypes for design verification and testing
- Precision patterns for casting and moulding
- Tools for pre-production tooling
- Parts for manufacturing aids, vendor solicitation and limited production runs

\* Dependent upon part geometry, build parameters and material.



**SYSTEMS**

the solid imaging company

# SLA 5000 System Specifications

This SLA system conforms to Federal Laser Product Performance Standards 21CFR1040.10 Class I laser in normal operation. During field service emission levels can correspond to Class IV laser product. The SLA 5000 system complies with CE requirements.



**SYSTEMS**

*the solid imaging company*

LASER	
Type	Solid state frequency tripled Nd:YVO4
Wavelength	354.7 nm
Power at vat at 5000 hours	216 mW
Warranty	5000 hours or 18 months (whichever comes first)
RECOATING SYSTEM	
Process	Zephyr recoater
ACES build style	0.075 mm *
QuickCast build style	0.1 mm *
Tooling build style	0.05 mm *
OPTICAL & SCANNING	
Beam (diameter @ 1/e2)	0.20 – 0.30 mm
Maximum recommended part drawing speed	5.0 m/sec
ELEVATOR	
Vertical resolution	0.00177 mm
Position repeatability	± 0.013 mm
Maximum part weight	68.04 kg
VAT CAPACITY	
(Note: Other vat sizes available)	
Volume	253.6 L
Maximum build envelope	508 x 508 x 584 mm XYZ
Interchangeable vat	Yes
SOFTWARE	
3D Lightyear file preparation and Buildstation build software	
Operating system	Windows NT
Network type and protocol	Ethernet, IEEE 802.3 using TCP/IP and NFS
POWER	
200 – 240 VAC 50/60 Hz, single phase, 15 amps	
AMBIENT TEMPERATURE	
Temperature range	20 – 26°C
Maximum change rate	1°C/hour
Relative humidity	Less than 50%, non-condensing
SIZE	
Crated:	
Process module	W1.55 x D2.10 x H2.36 m
Accessory kit	W1.22 x D1.22 x H1.35 m
Uncrated:	
Process module	W1.88 x D1.19 x H2.02 m
Accessory kit	n/a
WEIGHT	
Crated:	
Process module	1363 kg
Accessory kit	322 kg
Uncrated:	
Process module	1318 kg
Accessory kit	284 kg
OPTIONS	
Additional interchangeable vats and depths	
Additional platforms	
WARRANTY	
One (1) year from installation date.	
Includes parts, labor and buildstation software upgrades.	
Laser under separate warranty.	

\* Dependent upon part geometry, build parameters and material.

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