Because there's only one way to get your product to market: First.

SLA™ 7000

The power to reduce product development cycles. The flexibility to innovate. The capacity to draw more of your best minds into the development process. With its breakthrough technology and performance, 3D Systems' SLA 7000 delivers all this and more.

BRING PRODUCTS TO MARKET FASTER – MUCH FASTER. The SLA 7000 is up to four times as fast as the next fastest solid imaging system from 3D Systems.* But raw speed is just the beginning. SLA 7000's .001-inch (0.0254 mm) layer thickness* yields a smooth finish that results in far less post-processing time. And its highly reliable, fifth-generation design — including fewer parts, a low vibration optical system, and revolutionary dual-spot laser technology—reduces downtime and errors that cost you time, money and opportunity.

MAKE LIMITED PRODUCTION RUNS A PRACTICAL REALITY. Use the SLA 7000 to quickly produce parts you can use, with minimal post-processing, directly in many working assemblies.

TEST MORE OPTIONS AND EXPLORE NEW POSSIBILITIES. Because you can create multiple design iterations in a fraction of the time.

IMPROVE THE PRODUCTIVITY OF YOUR ENTIRE DEPARTMENT. Built for maximum throughput, the SLA 7000 can support your whole department, at top speed and resolution, without bottlenecks. And 3D Systems' Windows NT-compatible 3D Lightyear™ software comes bundled with the system. Connect as many workstations as you need, without additional software cost.
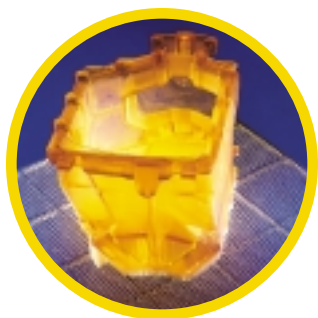
Only SLA 7000 covers the full range of solid imaging applications:

- » limited production runs
- » rapid tooling
- » prototyping
- » master patterns for casting
- » form, fit, and function testing
- » concept communication modeling

Dependent upon part geometry, build parameters and material.

"Past process improvements were in the range of 10 to 25%, so 300% is tremendous. We believe the SLA 7000's speed and surface finish improvements will permit Hasbro to shorten product development lead times and reduce project costs."

— Steve Deak
   Manager of Rapid Prototyping
   Hasbro, Inc.

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	Solid state frequency tripled Nd:YVO$_4$
Wavelength	354.7 nm
Power at vat @ 5000 hrs	800 mW
Warranty	5000 hours or 18 months (whichever comes first)

RECOATING SYSTEM

Process *	Zephyr recoater
Minimum build layer *	0.0254 mm (0.001 in)
Exact *	0.0762 mm (0.003 in)
QuickCast *	0.1 mm (0.004 in)
Fast *	0.127 mm (0.005 in)
Tooling style *	0.0254 mm (0.001 in)

OPTICAL AND SCANNING

Beam diameter	Small Spot 0.23 - 0.28 mm (0.009 - 0.011 in) Large Spot 0.685 - 0.838 mm (0.027 - 0.033 in)
Maximum part drawing speed	Small Spot 2.54 m/s (140 ips) Large Spot 9.52 m/s (525 ips)

ELEVATOR

Vertical resolution	0.001 mm (0.00004 in)
Position repeatability	+/-0.001 mm (+/-0.00004 in)
Maximum part weight	68.04 kg (150 lb)

VAT CAPACITY

Volume	253.6 L (67 U.S. gal)
Maximum build envelope	508 x 508 x 600 mm xyz (20 x 20 x 23.62 in)
Interchangeable vat	Yes

SOFTWARE

3D Lightyear file preparation software – Buildstation 5.0 (bundled with 3D Lightyear)

Operating system	Windows NT 4.0
Input data file format	.stl and .slc
Network type and protocol	Ethernet, IEEE 802.3 10/100BASE-T

POWER

200-240 VAC 50/60 Hz, Single phase, 20 amps

AMBIENT TEMPERATURE

Temperature range	20 - 26°C (68 - 79°F)
Maximum change rate	1°C/hour (1.8°F/hour)
Relative humidity	10% - 50% non-condensing

SIZE

Crated process module	W2.10 x D1.55 x H2.36 m (W83 x D61 x H93 in)
Accessory kit	W1.12 x D1.22 x H1.02 m (W44 x D48 x H40 in)
Uncrated process module	W1.88 x D1.63 x H2.03 m (W74 x D64 x H80 in)

WEIGHT

Crated process module	1455 kg (3200 lb)
Accessory kit	182 - 205 kg (400 - 450 lb)
Uncrated process module	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.

*Dependent upon part geometry, build parameters and material.

SYSTEMS

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