

# ProX™ 950

SLA® Production 3D Printer

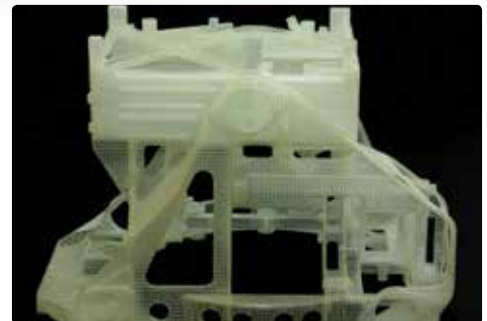


3DSYSTEMS®

## Print big parts with legendary SLA® precision faster than ever before.

Take on more projects faster with 3D Systems' ProX™ 950 Stereolithography (SLA®) Production Printer—the revolutionary new way to quickly manufacture precise plastic parts and forgo the design limitations of CNC or injection molding. New PolyRay™ print head technology helps you manufacture your real parts at up to 10 times the speed of other 3D printers. Transform your development and manufacturing processes with ultra-accurate printed parts at a low per-unit cost, without compromising quality, size or speed.

With the industry's widest choice of proven high-performance engineered materials, the ProX 950 delivers a range of properties: from ABS-like toughness to polycarbonate-like clarity. You can even cast directly from patterns printed with QuickCast® build style.



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**MANUFACTURING** *THE* **FUTURE**

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## ProX 950

### PolyRay Print Technology

Lasers	Solid-state frequency tripled Nd:YVO <sub>4</sub> with SteadyPower™
Wavelength	354.7 nm
Power (nominal) - at head	1450 mW (1000 mW at material surface under nominal optical path condition)
Laser Warranty	10,000 hours or 18 months (whichever comes first), replacement at 800 mW

### Zephyr™ Recoating System

Process	Removable applicator
Adjustment	Self-leveling; self-correcting
Layer thickness	Min -0.05 mm (0.002 in); Max -0.15 mm (0.006 in)

### ProScan™ Scanning System

Border spot (diameter @ 1/e <sup>2</sup> )	0.13 mm (0.005 in)
Large hatch spot	Nominal 0.76 mm (0.030 in)
Maximum part drawing speed*	
Border spot	3.5 m/sec (150 ips)
Large hatch spot	25 m/sec (1000 ips)

### Build Envelope Capacity

MDM 950 (ProX 950)	1500 x 750 x 550 mm (59 x 30 x 22 in)
Maximum part weight	150 kg (330 lbs)

<b>Electrical Requirements</b>	200 - 240 VAC 50/60 Hz, single-phase, 50 amps
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### Operating Environment\*\*

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

### Space Requirements

Size (WxDxH)	220 x 160 x 226 cm (86.6 x 63 x 89 in)
Weight, crated no MDM module	2404 kg (5300 lbs)

### Accessories

Platform change carts	Manual offload cart optional
Processing and finishing	ProCure™ 1500 UV Finisher
System Warranty	One-year warranty, under 3D Systems' Purchase Terms and Conditions

### Control System & Software

Controller and Part Preparation Software	Print3D Pro and 3D Manage™
Operating Systems	Windows® 7 or Windows® 8
Input data file format	.stl, .slc
Network type and protocol	Ethernet, IEEE 802.3 using TCP/IP and NFS

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

Standards and Regulations: This SLA Center 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.

\*\* For detailed recommendation, refer to 3D Systems' ProX 950 Facility Requirements Guide (FRG).



## High accuracy and unmatched materials choice, from the inventors of SLA.

- **Go big without the seams** – Build up to 1.5 m (5 ft) wide in one piece, no gluing or assembly required.
- **Fast production** – Create a full-size dashboard in two days.
- **Be exact** – The ProX 950 delivers the highest end-to-end accuracy and detail, even on huge parts.
- **Use the material that meets your requirements** – The Accura® line of SLA production materials offers the right properties for your application, including QuickCast pattern technology.
- **Print efficiently** – Highly efficient material use means unused material stays in the system, resulting in minimal waste.

### Features:

- New PolyRay technology for unprecedented speed, size and accuracy
- Speeds up to 10 times faster than other 3D printers
- Minimal-waste printing process is green and economical
- Huge build envelope for the biggest, most accurate parts

### Stereolithography (SLA®)

An additive manufacturing process which employs a container of liquid, ultraviolet curable material and an ultraviolet laser to build part layers one at a time. For each layer, the laser beam traces a cross section of the part pattern on the surface of the material. Exposure to the ultraviolet laser light cures and solidifies the pattern traced on the material and joins it to the layer below.

After the pattern has been traced, the SLA's elevator platform descends by a distance equal to the thickness of a single layer. A material applicator sweeps across the cross section of the part, re-coating it with fresh material. On this new liquid surface, the subsequent layer pattern is traced, joining the previous layer. A complete 3D part is formed by this process.



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