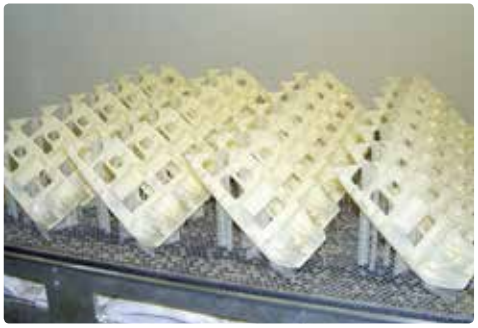
ProX™ 950

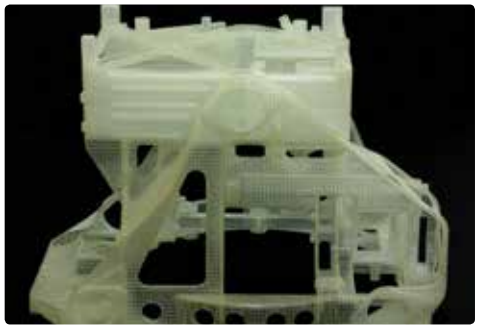
SLA® Production 3D Printer

Large parts and legendary SLA® precision are now faster than ever.

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 moulding. Boost your toolset with a level of accuracy and surface quality that tops other 3D printers, so you can confidently produce low- to medium-run products at a lower per-unit cost, and build highly detailed parts and patterns as large as 1.5 metres in width.

With the industry's widest array of SLA materials, the ProX 950 delivers a range of properties, from ABS-like toughness to polycarbonate-like clarity. You can even cast directly from printed patterns using QuickCast® technology.





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MANUFACTURING*THE*FUTURE

ProX™ 950

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ProX 950

SteadyPower™ Imager	
Type	Solid-state frequency tripled Nd: YVO_4
Wavelength	354.7 nm
Power (nominal) - at head	1450 mW (1000 mW at resin 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 blade
Adjustment	Self-levelling; self-correcting
Layer thickness	Min -0.05 mm (0.002 in); Max -0.15 mm (0.006 in)
ProScan™ Scanning System	
Border spot (diameter @ $1/e^2$)	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	
RDM 950 (Pro X 950)	1500 x 750 x 550 mm (59 x 30 x 22 in)
Maximum part weight	150 kg (330 lbs)
Electrical Requirements	200 - 240 VAC 50/60 Hz, single-phase, 50 amps
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 RDM 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	
Software tools	3DPrint™ and 3D Manage™ software
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 Centre 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:

- Two lasers work simultaneously
- Amazing speed - Print a full size dashboard in days not weeks
- Huge parts with highest detail, accuracy and edge definition in 3D printing
- No seams - Single-part durability
- Material efficient - All unused material stays in the system

Stereolithography (SLA®)

An additive manufacturing process which employs a vat of liquid, ultraviolet curable photopolymer resin 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 liquid resin. Exposure to the ultraviolet laser light cures and solidifies the pattern traced on the resin 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 resin-filled blade 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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