

# SLA<sup>®</sup> Production Series

Production 3D Printers

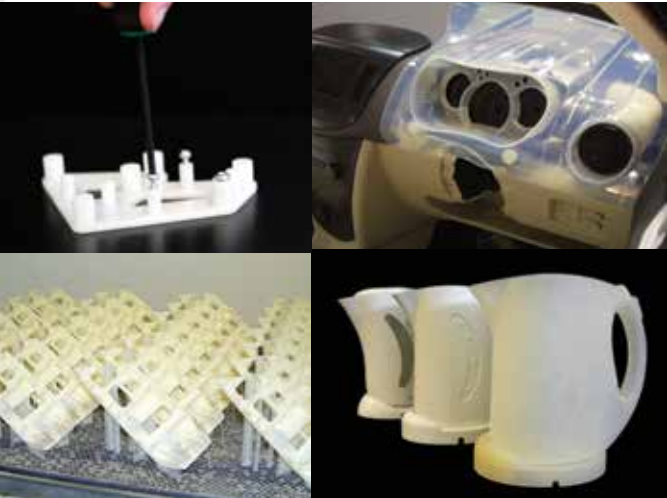


3DSYSTEMS<sup>®</sup>

## Genuine SLA for the ultimate in accuracy and economy

3D Systems, the inventor of Stereolithography, brings you legendary SLA<sup>®</sup> precision in production 3D printers fine-tuned for cost-efficiency and unrivalled material availability.

These advanced 3D printers produce exact plastic and composite material parts without the restrictions of CNC or injection moulding. With accuracy and surface quality of this level, you can produce low- to medium-run parts at a lower per-unit cost and build massive, highly detailed pieces faster.



[www.3dsystems.com](http://www.3dsystems.com)

**MANUFACTURING *THE* FUTURE**

# Advance your part manufacturing workflow

## 3D Systems SLA production printers transform the process of creating casting patterns, moulds, end-use parts and functional prototypes.

- Develop and produce products without the hefty cost and time of CNC machining or injection moulding.
- Reduce per-unit costs on low- to medium-sized runs.
- Match your exact mechanical and optical specifications with the broadest range of materials available.
- Cut finishing time and enjoy the best surface quality available from any 3D printer.
- Identify design flaws early with true-to-design accuracy and surface finish.
- Produce large, whole parts and cut both the time required for assembly and part weakness associated with attachment points.
- Streamline the path from CAD or scan to final part production.



## A range of SLA 3D printers to fit your exact requirements

iPro™ 8000 and ProX™ 950 SLA printers build parts with outstanding surface smoothness, feature resolution, edge definition and tolerances. Models come in the following build volumes:

650 x 350 x 300 mm (25.6 x 13.7 x 11.8 in)  
650 x 750 x 50 mm (25.6 x 29.5 x 1.97 in)  
650 x 750 x 275 mm (25.6 x 29.5 x 10.8 in)  
650 x 750 x 550 mm (25.6 x 29.5 x 21.65 in)  
1500 x 750 x 550 mm (59 x 29.5 x 21.65 in)

### ProX 950

- 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

### Other Features include:

- One-year warranty
- Controlled by 3DPrint™ software for optimal operations and expertly integrated system elements, sophisticated systems sequencing and real-time controls and monitoring

*A 3D Systems SLA printer allows Brammo to create new parts from CAD design to installation in less than two weeks.*

# Dozens of high-quality materials to choose from.

## Material Spotlight:

**Accura® Xtreme** – Tough grey plastic to replace CNC-machined polypropylene and ABS articles.

**Accura® CeraMax™ Composite** – Composite material for manufacturing stable, high-stiffness and abrasion resistant parts.

**Accura® Peak** – Stiff plastic material for heat-resistant components.

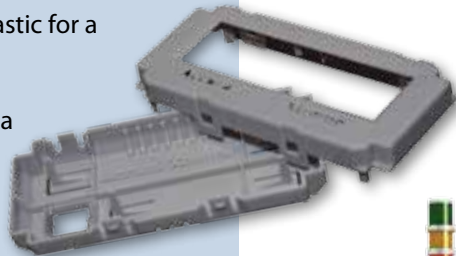
**Accura® CastPro** – Highly accurate material for stable investment casting patterns using QuickCast™ technology.

**Accura® ClearVue** – High clarity plastic for a multitude of applications.

**Accura® Xtreme™ White 200** – Ultra tough white plastic to replace CNC machined polypropylene and ABS articles.

**Accura® 25** – Flexible plastic to simulate and replace CNC machined white polypropylene articles.

Visit [www.3dsystems.com](http://www.3dsystems.com) for more materials.



3D Systems SLA 3D printers enable manufacturers and engineers in a variety of industries to swiftly integrate new manufacturing processes and produce the parts they need more efficiently.

## Applications:

- Aerospace
- Medical devices
- Manufacturing master patterns
- Automotive
- Electronics
- Orthodontics and dental
- Turbine production



## Print XL Parts

Printing length up to 1500mm



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3DSYSTEMS<sup>™</sup>

Extend Innovation. Extend Production. Extend Choices.



	iPro 8000	ProX 950
<b>SteadyPower™ Imager</b>		
Type	Solid-state frequency tripled Nd:YVO <sub>4</sub>	
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	
<b>Zephyr™ Recoating System</b>		
Process	Removable blade	
Adjustment	Self-levelling; self-correcting	
Layer thickness*	Minimum -0.05 mm (0.002 in); Maximum -0.15 mm (0.006 in)	
<b>ProScan™ Scanning System</b>		
Border spot (diameter @ 1/e <sup>2</sup> )	Standard mode nominal 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)	
<b>Build Envelope Capacity</b>		
	Interchangeable quick change RDMs with integrated elevator and recoater blade	
RDM 650M	650 x 350 x 300 mm (25.6 x 13.7 x 11.8 in); 148 l (39.1 U.S. gal)	n/a
RDM 750SH	650 x 750 x 50 mm (25.6 x 29.5 x 1.97 in); 95 l (25.09 U.S. gal)	n/a
RDM 750H	650 x 750 x 275 mm (25.6 x 29.5 x 10.8 in); 272 l (39.1 U.S. gal)	n/a
RDM 750F	650 x 750 x 550 mm (25.6 x 29.5 x 21.65 in); 414 l (109.3 U.S. gal)	n/a
RDM 950 (Pro X™ 950)	n/a	1500 x 750 x 550 mm (59 x 30 x 22 in)
Maximum part weight	75 kg (165 lbs)	150 kg (330 lbs)
	Resin Delivery Modules (RDMs), Size Options show maximum build envelope capacity (WxDxH); then fill volume	
<b>Electrical Requirements</b>		
With singled RDM	200 - 240 VAC 50/60 Hz, single-phase, 30 amps	n/a
With dual RDM	200 - 240 VAC 50/60 Hz, single-phase, 50 amps	
<b>Operating Environment**</b>		
Temperature range	20-26 °C (68-79 °F)	
Maximum change rate	1 °C/hour (1.8 °F/hour)	
Relative humidity	20-50 % non-condensing	
<b>Space Requirements</b>		
Size (WxDxH)	126 x 220 x 228 cm (50 x 86 x 89 in)	220 x 160 x 226 cm (86.6 x 63 x 89 in)
Weight, crated no RDM module	1590 kg (3500 lbs)	2404 kg (5300 lbs)
<b>Accessories</b>		
Four interchangeable RDMs	4 options (see capacity section)	
Platform change carts	Manual offload cart optional	
Processing and finishing	ProCure™ 750 UV Finisher	ProCure™ 1500 UV Finisher
System Warranty	One-year warranty, under 3D Systems' Purchase Terms and Conditions	
<b>Control System &amp; Software</b>		
Software tools	3DPrint™ and 3DManage™ Controller and Part Preparation Software	
Operating Systems	Windows® XP Professional (SP2)	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<sup>®</sup> 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' iPro 9000 and ProX 950 Facility Requirements Guide (FRG).

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