

# STEREOLITHOGRAPHY PRINTERS

Prototypes, tools and production parts with  
ProJet<sup>®</sup> and ProX<sup>™</sup> SLA 3D printers



# The original, and most accurate, 3D printing technology, fine tuned for even greater speed and reliability

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3D Systems, the inventor of Stereolithography (SLA), brings you legendary precision in 3D printers, fine-tuned for cost-efficiency and unrivaled material availability. These advanced 3D printers produce exact plastic parts without the restrictions of CNC or injection molding. In addition to prototypes and end-use parts, these SLA printers create casting patterns, rapid tooling and fixtures. With speed, 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.



Print extra large parts with lengths up to 1500mm, like a car dash

## UNRIVALED ACCURACY AND PRECISION

True-to-design accuracy and surface finish.

## HIGHEST PRODUCTIVITY

Advance your part manufacturing workflow. The fastest print technology for large parts and production runs. With swappable material delivery modules, get 24/7 utilization.

## DOZENS OF HIGH-QUALITY MATERIALS

Get the mechanical specifications you need with a wide variety of differentiated materials.

## PRODUCTION QUALITY

High strength and good dimensional stability.

# ProJet® 6000 & 7000

## Step up to the gold standard in 3D printing with genuine SLA

The ProJet 6000 offers all the benefits of SLA in a smaller footprint, so you can print with fine feature detail in a wide choice of VisiJet® performance-engineered materials that match or exceed traditional plastic properties.

The ProJet 7000 offers the same SLA benefits of the ProJet 6000, with more than double the build volume so you can print even larger parts for prototyping, rapid tooling and end-use with fine-feature detail.



Microfluidic mixers printed in VisiJet SL Flex



Electrical connector prototypes printed in VisiJet SL Impact



QuickCast® pattern in VisiJet SL Clear, and aluminum casting

### FLEXIBLE THROUGHPUT

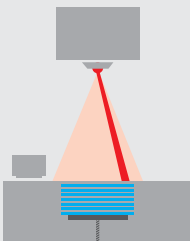
With flexible build volume options and easily swappable material delivery modules, print exactly what you need, exactly when you need it.

### ACCURATE, PRECISE DETAIL

Print parts with crisply defined features and precise geometry, so you can evaluate physical models of design concepts in their nearly finished state.

### EXCEPTIONAL PART QUALITY

Whether you need the clearest clear, the smoothest surfaces, or the best dimensional stability over your entire part, getting the exceptional part quality of 3D Systems SLA is more economical than ever.



### EXCEPTIONAL RESOLUTION

All 3D Systems SLA printers use precision mirror-driven lasers that can place a laser spot with a location resolution of 6.35  $\mu\text{m}$  on the print surface, which is equivalent to an incredible 4000 DPI.

# ProX™ 800 & 950

## Production SLA for the ultimate in speed, accuracy and operating economics

ProX 800 and ProX 950 SLA printers build parts with outstanding surface smoothness, feature resolution, edge definition and tolerances. Offering the broadest range of materials among all 3D printers, they are also highly efficient, with minimal waste. Combined with their exceptional productivity and reliability, it's no wonder that 3D Systems SLA printers are the #1 choice of professional service bureaus.

### TRULY PRODUCTION-READY

More than 20 million products are manufactured every year on 3D Systems SLA. Develop and produce products without the cost and time of CNC machining or injection molding.

### THINK BIG, PRINT BIG

Produce large, whole parts and cut both the time required for assembly and part weakness associated with attachment points.

### COMPELLING ECONOMICS

The ProX 800 and 950 are so efficient, part cost is up to 25x lower than other precision 3D print technologies.



Electronic housing prototype printed in Accura Xtreme



Helmet model printed in Accura Xtreme White 200

### FROM MICRO TO MACRO

SLA printers are able to print highly detailed, tiny parts just a few mm in size, all the way up to 1.5 m long parts—all at the same exceptional resolution and accuracy. Even large parts remain highly accurate from end-to-end, with virtually no part shrink or warping.



Toy prototype printed in Accura ABS Black

# Material Spotlight:

Parts made from SLA materials are the industry's "gold standard" for accuracy, providing excellent resolution, surface finish and dimensional tolerances. Accura materials run on the ProX series, and VisiJet materials run on the ProJet series.

## TOUGH, DURABLE POLYPROPYLENE-LIKE

Excellent general purpose prototyping and production materials for most applications, including snap fit.

- Accura 25
- Accura PP White
- Accura Xtreme
- Accura Xtreme White 200
- VisiJet SL Flex
- VisiJet SL Tough
- VisiJet SL Impact

## ABS-LIKE

Rigid plastics that offer similar aesthetics and properties to injection-molded ABS.

- Accura 55
- Accura ABS White
- Accura ABS Black
- VisiJet SL Black

## JEWELRY AND DENTAL

Specialty materials for high-quality jewelry casting, stone dental models, and biocompatible Class VI capable surgical guides.

- Accura Amethyst
- Accura Sapphire
- Accura eStone
- VisiJet SL Jewel
- VisiJet SL eStone

## CLEAR AND CASTABLE

SLA creates the clearest 3D printed parts, making it ideal for printing bottles, light covers, housings and other items where clarity is crucial. These materials are also ideal for printing sacrificial casting patterns.

- Accura ClearVue Free
- Accura ClearVue
- Accura 60
- Accura CastPro
- Accura CastPro Free
- VisiJet SL Clear

## HIGH TEMPERATURE AND COMPOSITE MATERIALS

With heat deflection temperatures ranging from 65° C to over 215° C, these materials offer exceptional performance under extreme conditions.

- Accura 48 HTR
- Accura SL 5530
- Accura PEAK
- Accura CeraMAX
- Accura Bluestone
- VisiJet SL HiTemp

Print transparent, functional components and housings to see internal workings as assembled



## SLA IS IDEAL FOR:

- Aerospace
- Medical devices
- Precision casting
- Automotive
- Electronics
- Orthodontics and dental
- Turbine production
- Consumer goods
- Packaging
- Rapid tooling
- Assembly jigs and fixtures
- Wind tunnel models

	ProJet 6000	ProJet 7000	ProX 800	ProX 950
<b>Max Build Envelope Capacity</b> (W x D x H)	10 x 10 x 10 in (250 x 250 x 250 mm)	15 x 15 x 10 in (380 x 380 x 250 mm)	25.6 x 29.5 x 21.65 in (650 x 750 x 550 mm)	59 x 30 x 22 in (1500 x 750 x 550 mm)
<b>Build Material</b>	VisiJet SL Flex VisiJet SL Tough VisiJet SL Clear VisiJet SL Black VisiJet SL Impact VisiJet SL HiTemp VisiJet SL e-Stone™ VisiJet SL Jewel	VisiJet SL Flex VisiJet SL Tough VisiJet SL Clear VisiJet SL Black VisiJet SL Impact VisiJet SL HiTemp VisiJet SL e-Stone™ VisiJet SL Jewel	Accura 25 Accura 48 HTR Accura 55 Accura 60 Accura ABS Black Accura ABS White Accura Amethyst Accura Bluestone Accura CastPro Accura CastPro Free Accura CeraMAX Accura ClearVue Accura ClearVue Free Accura eStone Accura PEAK Accura PP White Accura PEAK Accura PP White Accura Sapphire Accura SL 5530 Accura Xtreme Xtreme White 200	Accura 25 Accura 48 HTR Accura 55 Accura 60 Accura ABS Black Accura ABS White Accura Amethyst Accura CastPro Accura CastPro Free Accura ClearVue Accura ClearVue Free Accura eStone Accura PEAK Accura PP White Accura Sapphire Accura SL 5530 Accura Xtreme Xtreme White 200
<b>Accuracy</b>	————— 0.001-0.002 inch per inch (0.025-0.05 mm per 25.4 mm) of part dimension —————			
<b>Max resolution</b>	4000 DPI *	4000 DPI *	4000 DPI *	4000 DPI *

\* Equivalent DPI based on laser spot location resolution of 0.00635 mm in 3DS testing

Production batch of 40 automotive interior components printed on the ProX 800.



Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, material combined with, or with end use. 3D Systems makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use.

## MANUFACTURING *THE* FUTURE™



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