

SELECTIVE LASER SINTERING PRINTERS

Production thermoplastic parts with ProX™
and sPro™ SLS printers



Limitless possibilities with tool-less manufacturing

ELIMINATE TIME AND EXPENSE OF TOOLING

Direct manufacturing from a 3D CAD file eliminates cost and time involved in tooling and fixtures.

DESIGN FOR FUNCTION

SLS technology frees designers from the restrictions of traditional manufacturing. Complete assemblies can be printed as one part, improving functionality, reducing cost and increasing reliability.

STREAMLINE YOUR WORKFLOW

Eliminates extensive programming and fixturing, freeing up your machinists. Drastically reduce assembly times by reducing total part count.

INCREASE MANUFACTURING AGILITY

Additive manufacturing requires no tooling, reducing overhead and increasing economies of scope.

SLS APPLICATIONS INCLUDE:



HOUSINGS

Manufactured in small to medium lot sizes, often bridging the time until final tool is manufactured.



MACHINERY COMPONENTS

Integrate functionality and replace complex assemblies.



FUNCTIONAL TESTING

Test your prototypes for functionality—such as heat run cycle tests.



JIGS AND FIXTURES

Print complex assembly aids and free up CNC time for other projects.



DUCTING

Optimize flow and fit within tight space envelopes with the freedom to print ductwork that is impossible to mold.



CONSUMER GOODS

High-speed production for small lots and custom products.



TecSol3D

sPro™ 60, 140 & 230

Accurate, tough production parts

The sPro SLS systems share a common architecture to produce high-resolution, durable thermoplastic parts available in medium to large build volumes.



Sander tool housing printed in DuraForm PA material



Back cover of vacuum cleaner printed in DuraForm EX Black

TOUGH AND DURABLE PARTS

Industrial-grade technology relied on for the toughest applications, year after year.

EXCELLENT PART RESOLUTION, SURFACE FINISH AND EDGE DEFINITION

Print small to large parts with fine detail and sharp edges.

FLEXIBILITY THROUGH UPGRADE OPTIONS

Upgradeable with the flexibility to increase speed and resolution to match your needs now and in the future.

OPEN MATERIAL ARCHITECTURE

Broad choice of materials through flexible print parameters.



sPro™ 60

sPro™ 230

TECHNOLOGY LEADERSHIP

3D Systems' patented Precision Counter Rotating Roller system spreads and compacts each layer of powder materials to create strong dense parts with very smooth surfaces.

ProX™ SLS 500

The economical path to lot production

The newest generation in SLS printers, creating the smoothest surfaces and highest resolution thermoplastic parts.

UNIFORM PROPERTIES

Tough and durable parts with uniform 3D mechanical properties: machine on machine, print after print, independent of part orientation.

UNPRECEDENTED - UP TO 95% MATERIAL EFFICIENCY

Of every kilogram of material you buy, up to 950 grams are turned into parts. Economical and environmentally friendly.

STREAMLINE YOUR WORKFLOW

Automated production tools, powder handling and recycling functions, and mobile production controls allow you to accelerate your time to part.

UNMATCHED PART QUALITY

Best resolution, surface finish and edge definition of any 3D sintering technology.

MAXIMIZE YOUR INVESTMENT

Lower your cost of ownership with automated production tools, remarkably high throughput, material efficiency and repeatability.



Manifold printed in
DuraForm ProX PA



Housing for a laser
sensor printed in
DuraForm ProX PA



Wrist brace printed in
DuraForm ProX PA

MATERIAL QUALITY CONTROL SYSTEM (MQC)

Engineered specifically for the ProX SLS 500, the MQC ensures excellent parts and efficient use of material. It automatically collects, recycles and blends material, letting the printer run 24/7 for maximum productivity.



Thermoplastics and elastomers for robust parts

Select from a wide range of DuraForm® materials and match the material performance required for your specific application.

EXCLUSIVE TO THE PROX SLS 500:

DuraForm ProX PA

(Exclusive to the ProX SLS 500)

Extra strong thermoplastic with superior mechanical properties and finest surface quality.

DuraForm PA

Durable engineering plastic with balanced mechanical properties and fine-feature surface resolution.

DuraForm EX Black/Natural

Impact-resistant thermoplastic with the toughness of injection-molded polypropylene (PP) and ABS.

DuraForm GF

A glass-filled engineering plastic with high stiffness, elevated temperature resistance, and isotropic properties.

DuraForm Flex TPU

An elastomeric, thermoplastic polyurethane with high elongation and enhanced durability.

DuraForm HST Composite

A fiber-reinforced thermoplastic with excellent stiffness, strength and temperature resistance.

* Availability varies by printer model (see details on the last page).



Production running shoe
with midsole printed in
DuraForm Flex TPU



Complex ducting for
optimized air flow printed
in DuraForm EX Black



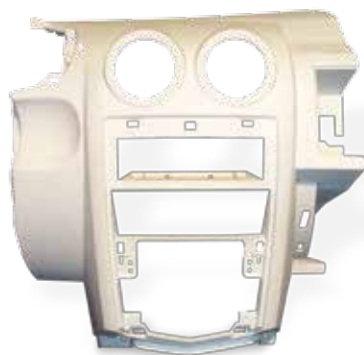
Electronic component printed
in DuraForm ProX PA

SLS TECHNOLOGY FROM 3D SYSTEMS

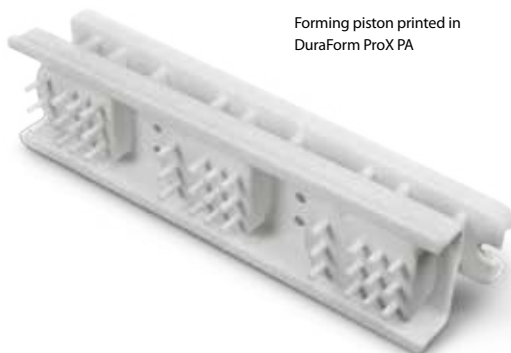
SLS production 3D printers are the proven industry standard. You benefit from 3D Systems' experience with our truly global product support team, offering dedicated service and application engineers, to meet your rigorous quality requirements at facilities around the world.



Max Build Envelope Capacity (X x Y x Z)	15 x 13 x 18 in (381 x 330 x 460 mm)	15 x 13 x 18 in (381 x 330 x 460 mm)	22 x 22 x 18 in (550 x 550 x 460 mm)	22 x 22 x 30 in (550 x 550 x 750 mm)
Build Material	DuraForm ProX PA <i>Additional materials coming soon</i>	DuraForm PA DuraForm GF DuraForm EX DuraForm HST DuraForm Flex CastForm PS <i>Coming soon: Duraform Flex TPU</i>	DuraForm PA DuraForm GF DuraForm EX DuraForm HST DuraForm Flex CastForm PS	DuraForm PA DuraForm GF DuraForm EX DuraForm HST DuraForm Flex CastForm PS
Layer thickness range (typical)	0.003 – 0.006 in (0.08 – 0.15 mm) (0.004 in, 0.10 mm)	0.003 – 0.006 in (0.08 – 0.15 mm) (0.004 in; 0.10 mm)	0.003 – 0.006 in (0.08 – 0.15 mm) (0.004 in, 0.10 mm)	0.003 – 0.006 in (0.08 – 0.15 mm) (0.004 in, 0.10 mm)
Volume build rate	1.8 l/hr	1.8 l/hr	3.0 l/hr	3.0 l/hr
Powder recycling and handling	Fully automatic	Manual	Automatic	Automatic



DuraForm PA Dashboard



Forming piston printed in
DuraForm ProX PA

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.

MANUFACTURINGTHE FUTURE™



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