

ProX™ 500

SLS® Production 3D Printer

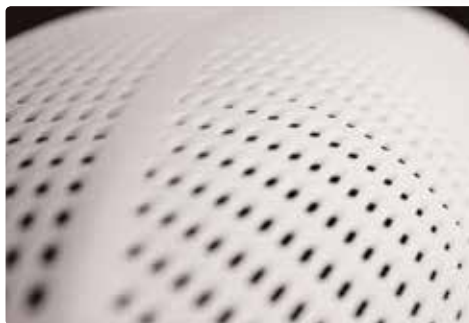


3DSYSTEMS®

The production-ready 3D printer for tough plastic parts.

The ProX™ 500, the new cutting-edge Selective Laser Sintering (SLS®) production 3D printer from 3D Systems, takes SLS toughness, part quality and manufacturing economics to the next level. Designed for smooth integration with your manufacturing workflow, the ProX 500 produces parts for a variety of end-use and functional prototyping applications in aerospace, medical, industrial design and more. Use the ProX 500 and DuraForm® plastic materials to produce parts with superior mechanical properties, resolution, surface finish and edge definition compared to other processes.

Ensure repeatable, consistent, tool-free manufacturing and produce durable functional parts faster with this mid-size production 3D printer. Additionally, the ProX 500 is equipped with mature production automation, mobile production control and material recycling functions, so it pays you back faster.



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MANUFACTURING *THE* FUTURE

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ProX 500

Print Envelope Capacity	381 x 330 x 457 mm (15 x 13 x 18 in)
Powder Layout	Variable Speed Counter Rotating Roller
Layer Thickness Range (typical)	0.08 – 0.15 mm (0.10 mm)
Imaging System	ProScan™ DX Digital High Speed
Scanning Speed (actual)	Fill - 12.7 m/s (500 in/s) Outline - 5 m/s (200 in/s)
Laser Power/Type	100 W / CO2
Volume Build Rate	2 L/hr
Electrical Requirements	
System	208 VAC/7.5 kVA, 50/60 Hz, 3 PH
MHS	100-240 VAC, 50/60 Hz, 1 PH
Accessory	ProX MQC for automated material handling and recycling

Selective Laser Sintering (SLS)

An additive manufacturing layer technology, SLS involves the use of a high power laser (for example, a carbon dioxide laser) to fuse small particles of plastic, metal (direct metal laser sintering), ceramic, or glass powders into a three-dimensional part. The laser selectively fuses powdered material by scanning cross sections generated from a 3D digital description of the part (for example from a CAD file or scan data) on the surface of a powder bed. After each cross section is scanned, the powder bed is lowered by one layer thickness, a new layer of material is applied on top, and the process is repeated until the part is completed.

Real, precise thermoplastic parts. High throughput. Process reliability.

- **Manufacture strong end-use parts and functional prototypes faster** – The ProX 500 combines exceptional 3D mechanical properties with additive manufacturing speeds.
- **Be confident in your process and results** – Manufactured parts from the ProX 500 show outstanding resolution, surface finish and edge definition.
- **Streamline your workflow** – Automated production tools, powder handling and recycling functions, and mobile production controls allow you to get the most from every second.
- **Maximize your investment** – With remarkably high throughput, material efficiency and process consistency, the ProX 500 lowers your total cost of ownership.
- **Take advantage of complete design freedom** – The ProX 500 makes it easy to directly produce low runs of complex products or one-off customized products.

Features:

- Strong parts with excellent mechanical properties
- Consistent mechanical properties independent of build position
- Smooth surface finish, with the highest resolution and edge definition of any SLS system
- More economical and environmentally friendly, with up to 80% recycled material
- Streamlined production control, including automated powder handling
- Lower Total Cost of Ownership (TCO)
- DuraForm® ProX – Extra strong and durable engineered production plastic
- Fast build speed and high throughput with 3D part nesting



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