NYLON 3D PRINTER

PF-S400

ProtoFab™
BEYOND DIMENSIONS

ALLROUNDER

www.3dprotofab.com

| EFFICIENCY

Combining scan speed of up to 15.2 m/s with a high efficiency roller system and convenient removable powder cartridge system, the PF-S400 offers increased productivity and lower price per part.

| ACCURACY

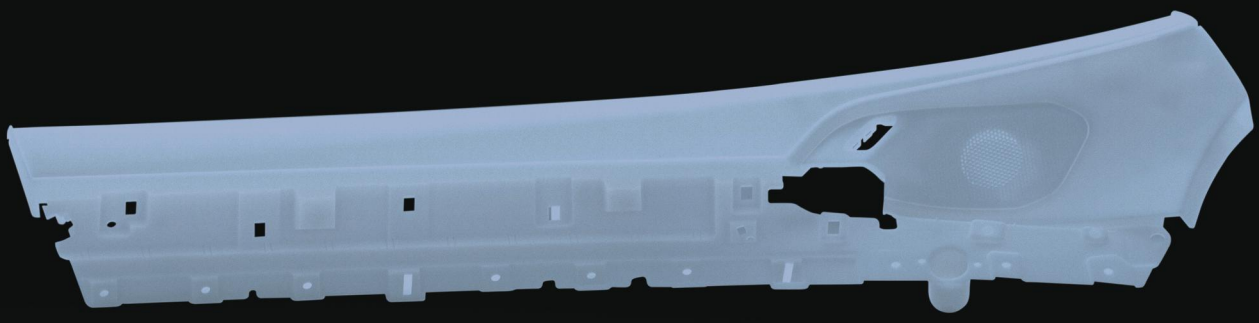
The PF-S400 series' powerful eight-zone heater & intelligent thermal control systems allows for best in class temperature regulation enabling less deformation and increased accuracy in final parts.

| HIGH TEMPERATURE

The PF-S400 series is offered in a high-temperature-capable configuration. Enhanced temperature shielding, laser power and thermal controls enable the PF-S400 to process high-performance materials, such as PA6, for direct-use applications.

| OPEN PLATFORM

ProtoFab is the laser sintering system producer that allows for complete freedom of operation of its machines. This means that machine parameters and powder choice are unlocked for the user allowing for previously-impossible levels of freedom and flexibility when it comes to PLS production.



PF S400 TECHNICAL DATA SHEET

Exterior Size(W*D*H)	2200 x 1650 x 2300 mm （86.61 x 64.96x 90.55 in）
Molding Cylinder Size(W*D*H)	458 x 458 x 600 mm（18.03 x 18.03 x 23.62 in）
Build Size(WD'H)	400 x 400 x 500 mm（15.75 x 15.75 x 19.68 in）
Volume Build Rate@0.12mm layer thickness	Up to 4 L/Hour
Scanning Speed	15.2m/s(598.42in/s)
Scan Spacing	0.15-0.30mm(0.006-0.012in)
Layer thickness(typical)	0.06-0.12mm(0.1mm)/0.002-0.004in(0.004in)
Precision optics	F-theta-lens
Laser Type	100W CO^2
Laser beam size	450μm
Laser Window	Removable,Easy to clean
Powder Feed Mode	Bi-directional powder feed system with two feed cylinder
Powder Delivery	Modular recoating system: precision counter-rotating roller (standard) or linear blade(optional)
Max Chamber Temperture	200℃（392℉）
Thermal Field Control	Tenindependent heaters with four IR sensor & intelligent temperature control systemss
Power Requirements	2.1kW 12kW Max
Data File Format	STL
Key Software Features	Slicing on the fly
Temperature Regulation	Continuous real-time build surface temperature monitoring & optimization
Compatible Materials	Nylon, carbon fiber composite nylon powder, glass fiber composite nylon powder, etc.

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Accuracy may vary depending on build parameters, part geometry and size, part orientation and post-processing methods.

By choosing a ProtoFab SLS machine, you also gain access to comprehensive training for 3D printing, post-processing and advanced industrial design assistance. We also provide you with free lifetime technical support to help your business optimize production and maximize profitability.

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