



Stratasys F900

Designed and built for size, throughput, precision and repeatability.

The Stratasys F900™ 3D Printer is the most precise and powerful FDM system available. With the largest build size of any Fortus® system, the Stratasys F900 is designed to handle the most demanding manufacturing needs. The accuracy, repeatability and predictability are unmatched, and the control software leverages the system's hardware to deliver superior throughput and reliability.

The Stratasys F900 uses engineering-grade thermoplastics to build robust production parts, jigs, fixtures, factory tooling and functional prototypes. Large parts are printed fast with the standard, large T40A tip to help meet production demands with ease.

The Stratasys F900 offers a streamlined workflow and easier job monitoring with an internal camera, GrabCAD Print™ software and MTConnect readiness. Standard certifications are included and reduce workload to qualify 3D printers for a production floor.





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System Specifications

SYSTEM CONFIGURATION

Build Envelope (XYZ)	914.4 x 609.6 x 914.4 mm (36 x 24 x 36 in.) Platen supports two build zones for either a small or large build sheet
Material Delivery	Two build material canisters 1508 cc (92 in. ³), Two support material canisters 1508 cc (92 in. ³), Auto changeover between canisters

MATERIAL OPTIONS

Layer Thickness:	ASA	ABS-M30™	ABS-M30i™	ABS-ESD7™	PC-ABS	PC-ISO™	PC	ULTEM™ 9085 resin	ULTEM 1010 resin	PPSF	FDM Nylon 12™	FDM Nylon 6™	ST-130™	FDM Nylon 12CF™
0.020 inch (0.508 mm)	X								X					
0.013 inch (0.330 mm)	X	X	X		X	X	X	X	X		X	X	X	
0.010 inch (0.254 mm)	X	X	X	X	X	X	X	X	X	X	X	X		X
0.007 inch (0.178 mm)	X	X	X	X	X	X	X				X			
0.005 inch (0.127 mm)	X													
Support Structure:	Soluble	Soluble	Soluble	Soluble	Soluble	Breakaway	Breakaway, Soluble	Breakaway	Breakaway	Breakaway	Soluble	Soluble	Breakaway	Soluble
Available Colors:	<ul style="list-style-type: none"> ■ Black ■ Dark Gray ■ Gray ■ Light Gray □ White ■ Ivory ■ Dark Blue ■ Green ■ Yellow ■ Orange ■ Red 	<ul style="list-style-type: none"> ■ Ivory □ White ■ Black ■ Red ■ Blue ■ Dark Gray 	Ivory	Black	Black	<ul style="list-style-type: none"> ■ Translucent Natural □ White 	White	<ul style="list-style-type: none"> ■ Tan ■ Black 	Natural	Tan	Black	Black	Natural	Black

OTHER SPECIFICATIONS

System Size and Weight	2772 x 1683 x 2027 mm (109.1 x 66.3 x 78.1 in.); 2869 kg (6325 lbs.). With Manufacturing Light Tower: 2772 x 1683 x 2281 mm (109.1 x 66.3 x 89.8 in.)
Achievable Accuracy	Parts are produced within an accuracy of +/- .0035 in. or +/- .0015 in. per in. whichever is greater (+/- .089 mm or +/- .0015 mm per mm whichever is greater). Z part accuracy includes an additional tolerance of -0.000/+ slice height. Note: Accuracy is geometry dependent. Achievable accuracy specification derived from statistical data at 95% dimensional yield. See Fortus 900mc™ Accuracy Study white paper for more information.
Network Communication	10/100 base T connection. Ethernet protocol.
Operator Attendance	Limited attendance for job start and stop required.
Operating Environment¹	Maximum room temperature of 85°F (29°C). Maximum room humidity of 80%.
Power Requirements¹	230 VAC (three phase) 50/60Hz, Voltage fluctuation +/- Current 40A
Additional Requirements¹	Compressed Air Required 90-120 psi with a minimum flow of 20 SCFM
Regulatory Compliance¹	CE, NRTL Listed
Software	All Fortus systems include Insight™ and Control Center™ job processing and management software. Compatible with GrabCAD Print for use with job reports, scheduling and remote monitoring.
Operating System	Microsoft Windows 8.1 and Windows 8 (Pro, Enterprise), Microsoft Windows 7 (Pro, Enterprise, Ultimate), Microsoft Windows Vista (Business, Enterprise, Ultimate), Microsoft Windows Server 2008, Microsoft Windows Server 2003

¹See Stratasys F900mc Site Prep Guide for detailed power and environmental specs