Stratasys F900

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

The **Stratasys F900**® is one of the most precise and powerful **FDM**® systems available. With the largest build size of any Stratasys FDM 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 Stratasys Preferred and Validated thermoplastics to build robust production parts, jigs, fixtures, factory tooling and functional prototypes. Large parts are printed fast with slice heights 0.020 inches (0.508 mm) to help meet production demands with ease. OpenAM™ software enables the use of third-party open materials and lets users alter machine print parameters to optimize material capabilities and print results.

The F900 offers an internal camera for easier job monitoring and a streamlined workflow enabled by GrabCAD Print software and MTConnect readiness. Data security, including U.S. Department of Defense STIG compliance, is provided by Stratasys ProtectAM™ technology. Standard certifications are included and reduce workload to qualify 3D printers for a production floor.

System Specifications

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 model material canisters 1,508 cc (92 in.³); Two support material canisters 1,508 cc (92 in.³) Auto changeover between canisters

Material Options

Stratasys Preferred Materials

Material	Layer Thickness					Support Structure	Available Colors
	0.020 inch (0.508 mm)	0.013 in. (0.330 mm)	0.010 in. (0.254 mm)	0.007 in. (0.178 mm)	0.005 inch (0.127 mm)		
ASA	●	●	●	●	●	Soluble	Black, Dark Gray, Light Gray, White, Ivory, Dark Blue, Green, Yellow, Orange, Red
ABS-M30™	○	●	●	●	○	Soluble	Ivory, White, Black, Red, Blue, Dark Gray
ABS-M30i™	○	●	●	●	○	Soluble	Ivory
ABS-ESD7™	○	○	●	●	○	Soluble	Black
Antero™ 800NA	○	○	●	○	○	Breakaway	Natural
Antero™ 840CN03	○	○	●	○	○	Breakaway	Natural
PC-ABS	○	●	●	●	○	Soluble	Black
PC-ISO™	○	●	●	●	○	Breakaway	Translucent Natural, White
PC	○	●	●	●	○	Breakaway, Soluble	White
ULTEM™ 9085 resin	●	●	●	○	○	Breakaway	Tan, Black
ULTEM™ 1010 resin	●	●	●	○	○	Breakaway	Natural
PPSF	○	○	●	○	○	Breakaway	Tan
FDM® Nylon 12	○	●	●	●	○	Soluble	Black
FDM® Nylon 6	○	●	●	○	○	Soluble	Black
FDM® Nylon 12CF	●	○	●	○	○	Soluble	Black
ST-130™	○	●	○	○	○	Breakaway	Natural

Stratasys F900

Material Options

Stratasys Validated Materials

Material	Layer Thickness				Support Structure	Available Colors	
	0.013 in. (0.330 mm)	0.010 in. (0.254 mm)	0.007 in. (0.178 mm)	0.005 inch (0.127 mm)			
FDM HIPS	○	●	○	○	Breakaway	■ Light Gray	
Kimya PC-FR	○	●	○	○	Soluble	■ Light Gray	
ULTEM® 9085 Resin (colors)	○	●	○	○	Breakaway	■ Red □ White 7362 ■ Jana White ■ Gunship Gray ■ Dream Gray ■ Aircraft Gray	
PC (colors)	○	●	○	○	Soluble	■ Red	
PC-ABS (colors)	○	●	○	○	Soluble	■ Red	
VICTREX AM™ 200	○	●	○	○	Breakaway, Soluble	■ Natural	

Other Specifications

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System Size and Weight	2,772 x 1,683 x 2,027 mm (109.1 x 66.3 x 79.8 in); 2,869 kg (6,325 lbs.) With Manufacturing Light Tower: 2,772 x 1,683 x 2,281 mm (109.1 x 66.3 x 89.8 in.)
Achievable Accuracy	Parts are produced within an accuracy of +/- .089 mm or +/- .0015 mm per mm whichever is greater (+/- .0035 in. or +/-.0015 in. per in. 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 white paper for more information.
Network Communication	Wired: TCP/IPv6 protocols, 10/100 base T connection, Ethernet protocol.
Operator Attendance	Limited attendance for job start and stop required.
Operating Environment	Maximum room temperature of 29 °C (85 °F). Maximum room humidity of 80%.
Power Requirements	230 VAC (three phase) 50/60Hz, Voltage fluctuation +/- Current 40A
Additional Requirements	Compressed Air Required 90-120 psi with a minimum flow of 20 CFM
Regulatory Compliance	CE, cTUVus, RCM, EAC, FCC Part B
Software	All Fortus systems include Insight and Control Center™ job processing and management software. Compatible with GrabCAD Print and GrabCAD Streamline Pro™ for use with job reports, scheduling and remote monitoring. U.S. government agency STIG compliance via Stratasys ProtectAM technology is powered by Red Hat® Enterprise Linux® software. GrabCAD Print Pro is available with a paid subscription and OpenAM software is available with the purchase of an OpenAM license.
Operating System	Windows 10 and newer, Windows Server 2016 and newer. Only 64-bit versions of Windows are supported.

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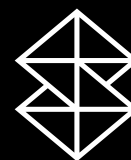
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Product Spec Sheet
FDM