

Stratasys F900



stratasys



alphacam
SOLUTIONS FOR A 3D WORLD

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.

There is a material delivery and drying cabinet, the Fortus FDC™, that pairs with the F900 to extend printing times. This add-on feature can deliver up to 500 ci of model material. The cabinet also dries the spools of filament and maintains the environment so that moisture is never a concern - even when printing with moisture sensitive materials. The larger volume of material on the spools coupled with the drying capability improve reliability, print performance, uptime, and can reduce labor required to reload material.

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. Fortus FDC™ allows for two model material canisters 4,097 cc (250 in(3)) each.

Other Specifications

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	Insight: Microsoft Windows 11, Microsoft Windows 10, or Microsoft Windows Server 2012 R2 GrabCAD Print, GrabCAD Print Pro, and OpenAM: Windows 10 and newer, Windows Server 2016 and newer. Only 64-bit versions of Windows are supported.

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	<ul style="list-style-type: none"> ■ Black ■ Dark Gray ■ Light Gray □ White ■ Ivory 	<ul style="list-style-type: none"> ■ Dark Blue ■ Green ■ Yellow ■ Orange ■ Red
ABS-M30™	○	●	●	●	○	Soluble	<ul style="list-style-type: none"> ■ Ivory □ White ■ Black 	<ul style="list-style-type: none"> ■ Red ■ Blue ■ Dark Gray
ABS-M30i™	○	●	●	●	○	Soluble	<ul style="list-style-type: none"> ■ Ivory 	
ABS-ESD7™	○	○	●	●	○	Soluble	<ul style="list-style-type: none"> ■ Black 	
Antero™ 800NA	○	○	●	○	○	Breakaway	<ul style="list-style-type: none"> ■ Natural 	
Antero™ 840CN03	○	○	●	○	○	Breakaway	<ul style="list-style-type: none"> ■ Natural 	
PC-ABS	○	●	●	●	○	Soluble	<ul style="list-style-type: none"> ■ Black 	
PC-ISO™	○	●	●	●	○	Breakaway	<ul style="list-style-type: none"> ■ Translucent Natural □ White 	
PC	○	●	●	●	○	Breakaway, Soluble	<ul style="list-style-type: none"> □ White 	
ULTEM™ 9085 resin	●	●	●	○	○	Breakaway	<ul style="list-style-type: none"> ■ Tan ■ Black 	
ULTEM™ 1010 resin	●	●	●	○	○	Breakaway	<ul style="list-style-type: none"> ■ Natural 	
PPSF	○	○	●	○	○	Breakaway	<ul style="list-style-type: none"> ■ Tan 	
FDM® Nylon 12	○	●	●	●	○	Soluble	<ul style="list-style-type: none"> ■ Black 	
FDM® Nylon 6	○	●	●	○	○	Soluble	<ul style="list-style-type: none"> ■ Black 	
FDM® Nylon 12CF	●	○	●	○	○	Soluble	<ul style="list-style-type: none"> ■ Black 	
ST-130™	○	●	○	○	○	Breakaway	<ul style="list-style-type: none"> ■ Natural 	

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	<ul style="list-style-type: none"> ■ Light Gray
Kimya PC-FR	○	●	○	○	Soluble	<ul style="list-style-type: none"> ■ Light Gray
ULTEM® 9085 Resin (colors)	●	●	○	○	Breakaway	<ul style="list-style-type: none"> ■ Red
	○	●	○	○	Breakaway	<ul style="list-style-type: none"> ■ Jana White
	○	●	○	○	Breakaway	<ul style="list-style-type: none"> ■ Dream Gray
	○	●	○	○	Breakaway	<ul style="list-style-type: none"> □ White 7362
	○	●	○	○	Breakaway	<ul style="list-style-type: none"> ■ Gunship Gray
	●	●	○	○	Breakaway	<ul style="list-style-type: none"> ■ Aircraft Gray
PC (colors)	○	●	○	○	Soluble	<ul style="list-style-type: none"> ■ Red
PC-ABS (colors)	○	●	○	○	Soluble	<ul style="list-style-type: none"> ■ Red
VICTREX AM™ 200	○	●	○	○	Breakaway, Soluble	<ul style="list-style-type: none"> ■ Natural
PC-ESD	○	●	○	○	Soluble	<ul style="list-style-type: none"> ■ Black



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PRODUCT SPEC SHEET
FDM

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