

# Stratasys F900

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

The [Stratasys F900™](#) 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 slice heights up to 0.020 inches 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](#), Insight™ and MTCConnect readiness. 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 build material canisters 1,508 cc (92 in. <sup>3</sup> ) Two support material canisters 1,508 cc (92 in. <sup>3</sup> ) Auto changeover between canisters The system includes two model material canister bays and support material canister bays

## Material Options

Material	Layer Thickness					Support Structure	Available Colors
	0.020 inch (0.508 mm)	0.013 inch (0.330 mm)	0.010 inch (0.254 mm)	0.007 inch (0.178 mm)	0.005 inch (0.127 mm)		
<a href="#">ASA</a>	●	●	●	●	●	Soluble	<ul style="list-style-type: none"> <li>■ Black</li> <li>■ Dark Gray</li> <li>■ Light Gray</li> <li>□ White</li> <li>■ Ivory</li> <li>■ Dark Blue</li> <li>■ Green</li> <li>■ Yellow</li> <li>■ Orange</li> <li>■ Red</li> </ul>
<a href="#">ABS-M30™</a>	○	●	●	●	○	Soluble	<ul style="list-style-type: none"> <li>■ Ivory</li> <li>□ White</li> <li>■ Black</li> <li>■ Red</li> <li>■ Blue</li> <li>■ Dark Gray</li> </ul>
<a href="#">ABS-M30i™</a>	○	●	●	●	○	Soluble	<ul style="list-style-type: none"> <li>■ Ivory</li> </ul>
<a href="#">ABS-ESD7™</a>	○	○	●	●	○	Soluble	<ul style="list-style-type: none"> <li>■ Black</li> </ul>
<a href="#">Antero™ 800NA</a>	○	○	●	○	○	Breakaway (support structure)	<ul style="list-style-type: none"> <li>■ Natural</li> </ul>
<a href="#">PC-ABS</a>	○	●	●	●	○	Soluble	<ul style="list-style-type: none"> <li>■ Black</li> </ul>
<a href="#">PC-ISO™</a>	○	●	●	●	○	Breakaway	<ul style="list-style-type: none"> <li>■ Translucent Natural</li> <li>□ White</li> </ul>
<a href="#">PC</a>	○	●	●	●	○	Breakaway, Soluble	<ul style="list-style-type: none"> <li>□ White</li> </ul>
<a href="#">ULTEM™ 9085 resin</a>	○	●	●	○	○	Breakaway	<ul style="list-style-type: none"> <li>■ Tan</li> <li>■ Black</li> </ul>
<a href="#">ULTEM 1010 resin</a>	●	●	●	○	○	Breakaway	<ul style="list-style-type: none"> <li>■ Natural</li> </ul>
<a href="#">PPSE</a>	○	○	●	○	○	Breakaway	<ul style="list-style-type: none"> <li>■ Tan</li> </ul>
<a href="#">FDM Nylon 12™</a>	○	●	●	●	○	Soluble	<ul style="list-style-type: none"> <li>■ Black</li> </ul>
<a href="#">FDM Nylon 6™</a>	○	●	●	○	○	Soluble	<ul style="list-style-type: none"> <li>■ Black</li> </ul>
<a href="#">ST-130™</a>	○	●	○	○	○	Breakaway	<ul style="list-style-type: none"> <li>■ Natural</li> </ul>

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## 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 +/- .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	10/100 base T connection. Ethernet protocol.
Operator Attendance	Limited attendance for job start and stop required.
Operating Environment <sup>1</sup>	Maximum room temperature of 29 °C (85 °F). Maximum room humidity of 80%.
Power Requirements <sup>1</sup>	230 VAC (three phase) 50/60Hz, Voltage fluctuation +/- Current 40A
Additional Requirements <sup>1</sup>	Compressed Air Required 90-120 psi with a minimum flow of 20 CFM
Regulatory Compliance <sup>1</sup>	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

<sup>1</sup> See Fortus 900mc Site Prep Guide for detailed power and environmental specs

### Stratasys Headquarters

7665 Commerce Way,  
Eden Prairie, MN 55344  
+1 800 801 6491 (US Toll Free)  
+1 952 937-3000 (Intl)  
+1 952 937-0070 (Fax)

stratasys.com  
ISO 9001:2008 Certified

1 Holtzman St., Science Park,  
PO Box 2496  
Rehovot 76124, Israel  
+972 74 745 4000  
+972 74 745 5000 (Fax)

