



# Fortus 900mc

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

The Fortus 900mc™ is the most precise and powerful FDM system available. With the largest build size of any Fortus® system, the Fortus 900mc 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 Fortus 900mc 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 Fortus 900mc offers a streamlined workflow and easier job monitoring with an internal camera and GrabCAD Print™. Standard certifications are included and reduce workload to qualify 3D printers for a production floor.





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## At the core:

### Advanced FDM technology

Fortus systems are based on Stratasys® FDM technology. FDM builds parts in production-grade thermoplastics, enabling the most durable parts.

Fortus systems use a wide range of thermoplastics with advanced mechanical properties so your parts can endure high heat, caustic chemicals, sterilization and high-impact applications.

### No special facilities needed

You can install a Fortus 3D Production System just about anywhere. No special venting is required because Fortus systems produce no noxious fumes, chemicals or waste.

### No special skills needed

Compared to other additive fabrication systems, Fortus 3D Production Systems are easy to operate and maintain as there are no messy powders to handle and contain. They're so simple, an operator can be trained to operate a Fortus system in less than 30 minutes.

### Get your benchmark on the future of manufacturing

Fine details. Smooth surface finishes. Accuracy. Strength. The best way to see the advantages of a Fortus 3D Production System is to have your own part built on a Fortus system.

## System Specifications

### SYSTEM CONFIGURATION

<b>Build Envelope (XYZ)</b>	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
<b>Material Delivery</b>	Two build material canisters 1508 cc (92 in. <sup>3</sup> ) Two support material canisters 1508 cc (92 in. <sup>3</sup> ) 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™
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	
0.007 inch (0.178 mm)	X	X	X	X	X	X	X				X		
<b>Support Structure:</b>	Soluble	Soluble	Soluble	Soluble	Soluble	Break-away	Break-away, Soluble	Break-away	Break-away	Break-away	Soluble	Soluble	Break-away
<b>Available Colors:</b>	Black Dark Gray Light Gray White Ivory Dark Blue Blue Green Yellow Orange Red	Ivory White Black Red Blue Dark Grey	Ivory	Black	Black	Translucent Natural White	White	Tan Black	Natural	Tan	Black	Black	Natural

### OTHER SPECIFICATIONS

<b>System Size and Weight</b>	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.)
<b>Achievable Accuracy</b>	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). <sup>*</sup> Z part accuracy includes an additional tolerance of -0.000/+ slice height. <sup>+</sup> 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.
<b>Network Communication</b>	10/100 base T connection. Ethernet protocol.
<b>Operator Attendance</b>	Limited attendance for job start and stop required.
<b>Operating Environment<sup>1</sup></b>	Maximum room temperature of 85°F (29°C). Maximum room humidity of 80%.
<b>Power Requirements<sup>1</sup></b>	230 VAC (three phase) 50/60Hz, Voltage fluctuation +/- Current 40A
<b>Additional Requirements<sup>1</sup></b>	Compressed Air Required 90-120 psi with a minimum flow of 8 CFM
<b>Regulatory Compliance<sup>1</sup></b>	CE, NRTL Listed
<b>Software</b>	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.
<b>Operating System</b>	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

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studiofathom.com | oakland 510.281.9000 | seattle 206.582.1062