

# Fortus<sup>®</sup> 900mc<sup>™</sup>



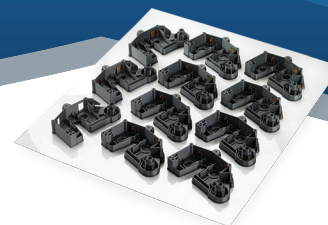
## **Designed and built for size, throughput, precision and repeatability.**

The Fortus 900mc, the most precise and largest of the Performance family, was specifically designed for digital manufacturing. Not only was the build envelope dramatically increased in size over previous Fortus systems, there are significant upgrades in its mechanical, electromechanical and electrical systems. Specifically, the head gantry is driven by ball-screw technology resulting in more accurate parts with improvements in predictability and repeatability. Additionally, the control software has been modified to leverage the system's hardware advancements. These features deliver greater throughput, accuracy, repeatability and reliability.

Like all Fortus 3D Production Systems, the Fortus 900mc uses stable thermoplastics that continue to outperform nearly all competing technologies in accuracy and repeatability. Proven FDM technology manufactures parts in production-grade thermoplastics that are ideal for conceptual modeling, functional prototyping, manufacturing tools and end-use parts.

**Learn more about the  
Fortus 900mc at  
[stratasys.com](http://stratasys.com)**

# Fortus 900mc



## System Specifications

BASE SYSTEM CONFIGURATION											
<b>Build Envelope (XYZ)</b>	36 x 24 x 36 inch (914.4 x 609.6 x 914.4 mm) Platen supports two build zones for either a small or large build sheet										
<b>Material Delivery</b>	Two build material canisters 92 in <sup>3</sup> (1508 cc) Two support material canisters 92 in <sup>3</sup> (1508 cc) Auto changeover between canisters										
MATERIAL OPTIONS											
<b>Layer Thickness:</b>	ASA	ABS <sup>TM</sup>	ABS-M30 <sup>TM</sup>	ABS-M30i <sup>TM</sup>	ABS-ESD7 <sup>TM</sup>	PC-ABS	PC-ISO <sup>TM</sup>	PC	ULTEM <sup>®</sup> 9085 resin	PPSF	NYLON 12
0.013 inch (0.330 mm)	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
0.007 inch (0.178 mm)	X	X	X	X	X	X		X			X
<b>Support Structure:</b>	Soluble	Soluble	Soluble	Soluble	Soluble	Soluble	BASS	BASS, Soluble	BASS	BASS	Soluble
<b>Available Colors:</b>	Ivory Black	Trans-lucent Natural Black Trans-lucent Amber Red Blue Trans-lucent Red Dark Grey	Ivory White Black	Ivory	Black	Black	Trans-lucent Natural White	White	Tan Black	Tan	Black
OTHER SPECIFICATIONS											
<b>System Size/Weight</b>	109.1 x 66.3 x 79.8 inches (2772 x 1683 x 2027 mm)										
<b>System Size with Manufacturing Light Tower</b>	109.1 x 66.3 x 89.8 inches (2772 x 1683 x 2281 mm)										
<b>Achievable Accuracy</b>	Parts are produced within an accuracy of +/- .0035 inch or +/- .0015 inch per inch whichever is greater (+/- .089 mm or +/- .0015 mm per mm whichever is greater)* <i>+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.</i>										
<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										
<b>Regulatory Compliance<sup>1</sup></b>	CE										
<b>Software</b>	All Fortus systems include Insight <sup>™</sup> and Control Center <sup>™</sup> job processing and management software.										

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

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### At the core: Advanced FDM<sup>®</sup> 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. Get your free part at: [stratasys.com](http://stratasys.com)