



REAL PRODUCTION

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

The Fortus 900mc™ was specifically designed for direct digital manufacturing. Not only has the build envelope dramatically increased in size over previous Fortus systems, there are significant differences 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 (Fused Deposition Modeling) technology manufactures Real Parts™ in production-grade thermoplastics that are ideal for conceptual modeling, functional prototyping, manufacturing tools, and end-use parts.



SYSTEM SPECIFICATIONS

BASE SYSTEM CONFIGURATION							
Build Envelope (XYZ)	36 x 24 x 36 inch (914.4 x 609.6 x 914.4 mm) Platen supports two (2) build zones for either a small or large build sheet						
Material Delivery	Two (2) Build material canisters 92 in ³ (1508 cc) Two (2) Support material canisters 92 in ³ (1508 cc) Auto changeover between canisters						
MATERIAL OPTIONS							
Layer Thickness:	ABS-M30	ABS-M30i ¹	PC-ABS ¹	PC-ISO ¹	PC	ULTEM* 9085 ¹	PPSF
0.013 inch (0.330 mm)	X	X	X	X	X		
0.010 inch (0.254 mm)	X	X	X	X	X	X	X
0.007 inch (0.178 mm)	X	X	X	X	X		
Support Structure:	Soluble	Soluble	Soluble	BASS	BASS	BASS	BASS
Available Colors:	<input type="checkbox"/> Ivory <input type="checkbox"/> White <input type="checkbox"/> Black <input type="checkbox"/> Red <input type="checkbox"/> Blue <input type="checkbox"/> Dark Grey	<input type="checkbox"/> Ivory	<input type="checkbox"/> Black	<input type="checkbox"/> Trans-lucent Natural <input type="checkbox"/> White	<input type="checkbox"/> White	<input type="checkbox"/> Tan	<input type="checkbox"/> Tan
OTHER SPECIFICATIONS							
System Size/Weight	109.1 x 66.3 x 79.8 inches (2772 x 1683 x 2027 mm)			With crate: 7247 lbs. (3287 kg) Without crate: 6325 lbs. (2869 kg)			
System Size with manufacturing light tower	109.1 x 66.3 x 89.8 inches (2772 x 1683 x 2281 mm)						
Achievable Accuracy	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>						
Network Communication	10/100 base T connection. Ethernet protocol.						
Operator Attendance	Limited attendance for job start and stop required.						
Operating Environment²	Maximum room temperature of 85°F (29°C). Maximum room humidity of 80%						
Power Requirements²	230 VAC (three phase) 50/60Hz, Voltage fluctuation +/- Current 40A						
Additional Requirements²	Compressed Air Required						
Regulatory Compliance²	CE						
Software	All Fortus systems include Insight™ and Control Center™ job processing and management software. FDM TEAM™ software for multi-system and/or multi-user operations is sold separately. Visit www.fortus.com/software for more information.						

¹ABS-M30i, PC-ABS, PC-ISO, and ULTEM* 9085 available for Fortus 900mc Q3 2009.

²See Fortus 900mc Site Prep Guide for detailed power and environmental specs

For more information about Fortus systems, materials and applications, call **888.480.3548** or visit www.fortus.com

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At the core: Advanced FDM[®] technology

Fortus systems are based on patented Stratasys FDM — Fused Deposition Modeling — technology. FDM is the industry's leading additive fabrication technology, and the only one that uses 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 don't produce noxious fumes, chemicals, or waste.

No special skills needed

Fortus 3D Production Systems are easy to operate and maintain compared to other additive fabrication systems because there are no messy powders or resins 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: www.fortus.com/benchmark.