FORTUS 900mc™



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

The Fortus® 900mc 3D Production System was specifically designed for direct digital manufacturing. Not only does it boast the largest build envelope; there are significant differences in its mechanical, electromechanical and electrical systems. 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 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

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FORTUS 900mc™



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:	ABSi	ABS-M30	ABS-M30i	ABS-ESD7	PC-ABS	PC-ISO	PC	ULTEM™ 9085	PPSF	NYLON 12
0.013 inch (0.330 mm)	X	X	X		X	X	X	X		X
0.010 inch (0.254 mm)	X	X	X	X	X	X	X	X	X	X
0.007 inch (0.178 mm)	X	X	X	X	X		X			X
Support Structure:	Soluble	Soluble	Soluble	Soluble	Soluble	BASS	BASS, Soluble	BASS	BASS	Soluble
Available Colors:	Trans-lucent Natural Trans-lucent Amber Trans-lucent Red	Ivory White Black Red Blue Dark Grey	Ivory	Black	Black	Trans-lucent Natural White	White	Tan Black	Tan	Black

OTHER SPECIFICATIONS	
System Size/Weight **System Size with manufacturing light tower**	109.1 x 66.3 x 79.8 inches (2772 x 1683 x 2027 mm) 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)* **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[1]	Maximum room temperature of 85°F (29°C). Maximum room humidity of 80%
Power Requirements[1]	230 VAC (three phase) 50/60Hz, Voltage fluctuation +/- Current 40A
Additional Requirements[1]	Compressed Air Required
Regulatory Compliance[1]	CE
Software	All Fortus systems include Insight™ and Control Center™ job processing and management software.

[1]See Fortus 900mc Site Prep Guide for detailed power and environmental specs

At the core: Advanced FDM Technology™

Fortus 3D Production Systems are powered by Fused Deposition Modeling™ (FDM) technology. FDM is the industry's leading additive manufacturing 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. 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

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