



Fortus 380mc and 450mc

Get the latest FDM® technology for advanced prototyping and production.

Bring the speed, agility and design freedom of advanced additive manufacturing to your business while gaining the latest advances in FDM technology. The Fortus 380mc™ and Fortus 450mc™ 3D Production Systems build high-requirement prototypes, rugged jigs, fixtures and tooling, and custom production parts in familiar thermoplastics. And these 3D production systems are engineered for ease of use, including an all-new, intuitive touchscreen interface for smooth workflow. Both let you choose materials individually or in economical bundles.

Fortus 380mc:

Quickly build advanced prototypes and production aids as large as 355 x 305 x 305 mm (14 x 12 x 12 in.) in seven standard and engineering thermoplastics.

Fortus 450mc:

Get all the capabilities of the Fortus 380mc, plus a larger build envelope (406 x 355 x 406 mm [16 x 14 x 16 in.]) and the option to run high-performance thermoplastics for specialized production parts in demanding fields such as medical, aerospace, research and defense.



LEARN MORE ABOUT THE FORTUS 380MC AND 450MC AT STRATASYS.COM

stratasys®



THE 3D PRINTING SOLUTIONS COMPANY



Fortus 380mc and 450mc

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. Get your free part at: stratasys.com



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ISO 9001:2008 Certified

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System Specifications

SYSTEM CONFIGURATION

Build Envelope (XYZ)	380mc: 355 x 305 x 305 mm (14 x 12 x 12 in.) 450mc: 406 x 355 x 406 mm (16 x 14 x 16 in.)
Material Delivery	380mc: One bay each for material and support canisters 450mc: Two bays each for material and support canisters Auto changeover between canisters

MATERIAL OPTIONS

	ABS-ESD7™	ABS-M30™	ABS-M30i™	ASA	FDM Nylon 12™	PC	PC-ISO™	450mc only ULTEM® 9085 resin	450mc only ULTEM 1010 resin
Layer Thickness:									
0.330 mm (0.013 in.)		X	X	X	X	X	X	X	X
0.254 mm (0.010 in.)	X	X	X	X	X	X	X	X	X
0.178 mm (0.007 in.)	X	X	X	X	X	X	X		
0.127 mm (0.005 in.)		X	X	X		X			
Support Structure:	Soluble	Soluble	Soluble	Soluble	Soluble	Breakaway, Soluble	Breakaway	Breakaway	Breakaway
Available Colors:	■ Black	■ Ivory □ White ■ Black ■ Red ■ Blue ■ Dark Gray	■ Ivory	■ Ivory ■ Black	■ Black	□ White	■ Translucent Natural □ White	■ Tan ■ Black	■ Natural

OTHER SPECIFICATIONS

System Size and Weight	129.5 cm x 90.2 cm x 198.4 cm (51 x 35.5 x 78.1 in.) 601 kg (1325 lbs.)
Achievable Accuracy	Parts are produced within an accuracy of ± .127 mm (± .005 in.) or ± .0015 mm/mm (± .0015 in/in), whichever is greater. Note: Accuracy is geometry dependent. Achievable accuracy specification derived from statistical data at 95% dimensional yield.
Network Communication	10/100 base T connection. Ethernet protocol.
Operator Attendance	Limited attendance for job start and stop required.
Power Requirements	208VAC 3 phase, 50/60 Hz, consumes 18 Amps
Regulatory Compliance	CE
Software	All Fortus systems include Insight™ and Control Center™ job processing and management software.
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

HEADQUARTERS

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