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 Printers build high-requirement prototypes, rugged jigs, fixtures and tooling, and custom production parts in familiar thermoplastics. And these 3D printers 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 eight 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 Printer 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 Printers 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 Printer is to have your own part built on a Fortus system.

Get your free part at: stratasys.com

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

	LAYER THICKNESS				SUPPORT STRUCTURE	AVAILABLE COLORS
	0.330 mm (0.013 in.)	0.254 mm (0.010 in.)	0.178 mm (0.007 in.)	0.127 mm (0.005 in.)		
ABS-ESD7™		X	X		Soluble	■ Black
ABS-M30™	X	X		X	Soluble	☐ Ivory ☐ White ■ Black ■ Red ■ Blue ■ Dark Gray
ABS-M30i™	X	X	X	X	Soluble	☐ Ivory
Antero™ 800NA (450mc only)		X			Breakaway	■ Natural
ASA	X	X	X	X	Soluble	■ Black ■ Dark Blue ■ Dark Gray ■ Green ■ Light Gray ■ Yellow ☐ White ■ Orange ☐ Ivory ■ Red
FDM Nylon 12™	X	X	X		Soluble	■ Black
FDM Nylon 12CF™ (450mc only)		X			Soluble	■ Black
PC	X	X	X	X	Breakaway, Soluble	☐ White
PC-ABS	X	X	X	X	Soluble	■ Black
PC-ISO™	X	X	X		Breakaway	■ Translucent Natural ☐ White
ULTEM® 9085 resin (450mc only)	X	X			Breakaway	■ Tan ■ Black
ULTEM 1010 resin (450mc only)	X	X			Breakaway	■ Natural
ST-130 (450mc only)		Only available in 0.330 mm (0.013 in.)			Breakaway	■ Tan

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). Z part accuracy includes an additional tolerance of -0.000/+slice height. 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. Compatible with GrabCAD Print for use with job reports, scheduling and remote monitoring.
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

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