## Fortus 450mc





## The Fortus 450mc is a factory floor ready additive manufacturing tooling solution. Industrial FDM technology with an open material ecosystem for advanced prototyping, tool production and end-use parts.

Bring the speed, agility and design freedom of advanced additive manufacturing to your business while gaining the latest advances in FDM® technology. The Fortus 450mc™ 3D printer builds high-requirement functional prototypes, rugged manufacturing tooling and custom production parts in its large 406 x 355 x 406 mm (16 x 14 x 16 in.) build envelope. Fourteen Stratasys Preferred Materials, multiple Stratasys Validated Materials and soluble support address a wide variety of applications.

Additionally, the Fortus 450mc can be paired with the optional Fortus FDC™ material delivery and drying cabinet to extend printing times. This add-on feature can deliver up to 500 ci of model material and dries the spools of filament so that moisture is never a concern.

OpenAM™ software lets users alter print parameters to optimize material capabilities and print results. GrabCAD Print™, GrabCAD Print Pro™, Streamline Pro, and Insight™ software provide an easy CAD-to-print workflow and in-depth print processing control. MTConnect and Stratasys Software Development Kits let you integrate the Fortus 450mc into your connected factory floor.

## System Specifications Build Envelope (XYZ) 406 x 355 x 406 mm (16 x 14 x 16 in.) Material Delivery Two bays each for model and support canisters. Auto changeover between canisters

Product 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 $\pm$ .127 mm ( $\pm$ .005 in.) or $\pm$ .0015 mm/mm ( $\pm$ .0015 in/in), whichever is greater). Z part accuracy includes an additional tolerance of -0.000/ $\pm$ 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. Wired: TCP/IPv6 protocols				
Operator Attendance	Limited attendance for job start and stop required				
Power Requirements	208VAC 3 phase, 50/60 Hz, consumes 18 Amps				
Regulatory Compliance	CE, cTUVus, RCM, EAC, FCC Part B				
Software	All Fortus systems include Insight™ and Control Center™ job processing and management software. Compatible with GrabCAD Print™, GrabCAD Print Pro™ and Streamline Pro for use with part processing, job reports, scheduling and remote monitoring. OpenAM software is available through the purchase of an OpenAM License.				
Operating System	Insight: Microsoft Windows 11, Microsoft Windows 10, or Microsoft Windows Server 2012 R2 GrabCAD Print, GrabCAD Print Pro, Streamline Pro, and OpenAM: Windows 10 and newer, Windows Server 2016 and newer. Only 64-bit versions of Windows are supported.				

Material Options											
Stratasys Preferred Materials											
Material	<b>Layer Thic</b> 0.127 mm (0.005 in.)	kness 0.178 mm (0.007 in.)	0.254 mm (0.010 in.)	0.330 mm (0.013 in.)	Support Structure	Available Colors					
ABS-ESD7™	0	•	•	0	Soluble	■ Black					
ABS-M30™	•	•	•	•	Soluble	<ul><li>Ivory</li><li>■ Black</li><li>■ Blue</li></ul>	□ White ■ Red ■ Dark Gray				
ABS-M30i™	•	•	•	•	Soluble	Ivory					
Antero™ 800NA	0	0		0	Breakaway	Natural					
Antero 840CN03	0	0		0	Breakaway	Natural					
ASA	•	•	•	•	Soluble	■ Black ■ Dark Gray ■ Light Gray □ White ■ Ivory	<ul><li>Dark Blue</li><li>Green</li><li>Yellow</li><li>Orange</li><li>Red</li></ul>				
FDM Nylon 12™	0	•	•	•	Soluble	■ Black					
FDM Nylon 12CF™	0	0	•	0	Soluble	■ Black					
PC				•	Breakaway, Soluble	☐ White					
PC-ABS					Soluble	■ Black					
PC-ISO™	$\circ$				Breakaway	Translucent Natural	□ White				
ULTEM™ 9085 resin	0	0			Breakaway	■ Tan	■ Black				
ULTEM™ 1010 resin	0	0			Breakaway	Natural					
ST-130	0	0	0		Breakaway	■ Tan					

Stratasys Validated Materials								
Material			0.330 mm (0.013 in.)	Support Structure	Available Colors			
FDM HIPS	0	0	•	0	Breakaway	■ Light Gray		
Kimya PC-FR	0	0	•	0	Soluble	■ Light Gray		
ULTEM® 9085 Resin (colors)	0	0	•	•	Breakaway	■ Red		
	0	0	•	0	Breakaway	Jana White		
	0	0	•	0	Breakaway	■ Dream Gray		
	0	0	•	0	Breakaway	☐ White 7362		
	0	0	•	0	Breakaway	■ Gunship Gray		
	0	0	•	•	Breakaway	■ Aircraft Gray		
PC	0	0	•	0	Soluble	■ Red	■ Black	
PC-ABS	0	0	•	0	Soluble	■ Red		
VICTREX AM™ 200	0	0	•	0	Breakaway, Soluble	■ Natural		
PC-ESD	0	0	•	0	Soluble	■ Black		

HOME OF PRINTING

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