Fortus 450mc





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.

OpenAM[™] software lets users alter print parameters to optimize material capabilities and print results. GrabCAD Print[™], GrabCAD Print 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/+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 [™] and GrabCAD Print 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, 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	Layer Thic 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	٠	•	0	Soluble	Black	
ABS-M30™	•	٠	٠	٠	Soluble	IvoryBlackBlue	WhiteRedDark Gray
ABS-M30i [™]		٠	•	•	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 	 Dark Blue Green Yellow Orange Red
FDM Nylon 12 [™]	0	٠	•	•	Soluble	Black	
FDM Nylon 12CF [™]	0	0	•	0	Soluble	Black	
PC		•	•	•	Breakaway, Soluble	White	
PC-ABS		•			Soluble	Black	
PC-ISO [™]	0				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

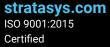
FDM HIPS	0	0	•	0	Breakaway	Light Gray	
Kimya PC-FR	0	0	۲	0	Soluble	Light Gray	
ULTEM [®] 9085 Resin (colors)	0	0	•	•	Breakaway	Red	
	0	0	۲	0	Breakaway	Jana White	
	0	0	۲	0	Breakaway	Dream Gray	
	0	0	•	0	Breakaway	White 7362	
	0	0	•	0	Breakaway	Gunship Gray	
	0	0	•	•	Breakaway	Aircraft Gray	
PC	0	0	•	0	Soluble	Red	Black
PC-ABS	0	0	•	0	Soluble	Red	
VICTREX AM [™] 200	0	0	٠	0	Breakaway, Soluble	Natural	
PC-ESD	0	0	•	0	Soluble	Black	



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