

Stratasys 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 Materials¹, multiple Stratasys Validated Materials² and soluble support address a wide variety of applications.



Fortus 450mc Specifications

Build Tray Dimensions 406 x 355 x 406 mm (16 x 14 x 16 in.)

Material Delivery Two bays each for material and support canisters. Auto changeover between canisters

Materials

Stratasys Preferred Materials

Model Material	Layer Thickness				Support Structure	Available Colours
	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		●	●		Soluble	■ Black
ABS-M30	●	●		●	Soluble	■ Ivory □ White ■ Black ■ Red ■ Blue ■ Dark Grey
ABS-M30i	●	●	●	●	Soluble	■ Ivory
Antero 800NA		●			Breakaway	■ Natural
Antero 840CN03		●			Breakaway	■ Natural
ASA	●	●	●	●	Soluble	■ Black ■ Dark Blue ■ Dark Grey ■ Green ■ Light Grey ■ Yellow □ White ■ Orange ■ Ivory ■ Red
FDM Nylon 12	●	●	●		Soluble	■ Black
FDM Nylon 12CF		●			Soluble	■ Black
PC	●	●	●	●	Breakaway, Soluable	□ White
PC-ABS	●	●	●	●	Soluble	■ Black
PC-ISO	●	●	●		Breakaway	■ Translucent Natural □ White
ULTEM™ 9085 resin	●	●			Breakaway	■ Tan ■ Black
ULTEM™ 1010 resin	●	●			Breakaway	■ Natural
ST-130	●				Breakaway	■ Tan

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Materials

Stratasys Validated Materials

Model Material	Layer Thickness				Support Structure	Available Colours
	0.330 mm (0.013 in.)	0.254 mm (0.010 in.)	0.178 mm (0.007 in)	0.127 mm (0.005 in)		
FDM HIPS		●			Breakaway	■ Light Grey
Addigy® PA6/66- GF20 FR LS		●			Breakaway	■ Black
Victrex AM™ 200		●			Soluble	■ Natural
Kimya Kepstan® PEKK-SC		●			Breakaway	■ Natural
Kimya PC-FR		●			Soluble	■ Light Grey
ULTEM® 9085 Resin (colored)		●			Breakaway	□ White 7362 ■ Red ■ JanaWhite ■ Gunship Grey ■ Dream Grey ■ Aircraft Grey
PC (polycarbonate)		●			Soluble	■ Red ■ Black
PC-ABS		●			Soluble	■ Red
PC-ESD		●			Soluble	■ Black

Other specifications

System Size / 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.
Network Connectivity	10/100 base T connection. Ethernet protocol
Operator Attendance	Limited attendance for job start and stop required
Software	GrabCAD Print software, Insight Software, Control Center
Operating Environment	Maximum room temperature of 29 °C (85 °F). Maximum room humidity of 80%.
Power Requirements	208VAC 3 phase, 50/60 Hz, consumes 18 Amps
Regulatory Compliance	CE, cTUVus, RCM, EAC, FCC Part B
Operating System	Microsoft Windows 10 (Pro, Enterprise, Education), Microsoft Windows 8.1 and Windows 8 (Pro, Enterprise), Microsoft Windows 7 (Pro, Enterprise, Ultimate), Microsoft Windows Server 2012 R2. Insight software requires a 64-bit operating system.

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