

Fortus 450mc

Get the latest FDM technology for advanced prototyping, tooling 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 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 thermoplastics including soluble support material are available to address a variety of applications.

GrabCAD Print 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 material and support canisters. Auto changeover between canisters

Material Options

Material	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™	○	●	●	○	Soluble	■ Black
ABS-M30™	●	●	○	●	Soluble	■ Ivory ■ Black ■ Blue □ White ■ Red ■ Dark Gray
ABS-M30i™	●	●	●	●	Soluble	■ Ivory
Antero™ 800NA	○	●	○	○	Breakaway	■ Natural
Antero 840CN03	○	●	○	○	Breakaway	■ Natural
ASA	●	●	●	●	Soluble	■ Black ■ Dark Gray ■ Light Gray □ White ■ Ivory ■ Dark Blue ■ Green ■ Yellow ■ Orange ■ Red
FDM Nylon 12™	●	●	●	○	Soluble	■ Black
FDM Nylon 12CF™	○	●	○	○	Soluble	■ Black
PC	●	●	●	●	Breakaway, Soluble	□ 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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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 $\pm .127$ 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.
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 for use with job reports, scheduling and remote monitoring.
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.



VARINEX Zrt.

1106 Budapest, Fehér út 10.
+361 432 0248
3DP@varinex.hu
varinex.hu

stratasys.com

ISO 9001:2015 Certified



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