Fortus 380mc Carbon Fiber Edition

Advanced prototyping and production with carbon fiber-reinforced nylon material.

The Fortus 380mc™ Carbon Fiber Edition 3D Printer prints exclusively with FDM Nylon 12CF™ Carbon Fiber and ASA materials. It fills the gap between capability-limited desktop printers and more costly production-level printers enabled with carbon fiber-reinforced materials. The heated build chamber is the same size as the standard Fortus 380mc, preventing warp and curl for consistent part production regardless of size. Soluble support provides complete design freedom for complex shapes that include voids and undercuts.

GrabCAD Print™ software provides an easy CAD-to-print workflow. However, Insight™ and Control Center™ software are also included for job management and production status.

The Fortus 380mc Carbon Fiber Edition is a standalone system. There is no upgrade availability to this configuration from a standard Fortus 380mc.

System Specifications	
System Configuration	
Build Envelope (XYZ)	355 x 305 x 305 mm (14 x 12 x 12 in.)
Material Delivery	One bay each for material and support 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.)		
ASA	●	●	●	●	Soluble	■ Black, ■ Dark Gray, ■ Light Gray, □ White, ■ Ivory, ■ Dark Blue, ■ Green, ■ Yellow, ■ Orange, ■ Red
FDM Nylon 12CF		●			Soluble	■ Black

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 (1,325 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, 18 Amps
Regulatory Compliance	CE, cTUVus, 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.

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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.

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