

Fortus 450mc

Production System



**Flexible, fast, predictable
and simple to operate.
Manufacture Real Parts in a
wide range of engineering
thermoplastics**

The Fortus 450mc allows you to Manufacture Real Parts in-house with multiple production-grade thermoplastics, such as ABS-M30, PC, ULTEM 9085, ULTEM 1010, Nylon 12 and more.

Fortus 450mc is a user configurable high-performance workhorse, ideal for creating Real Parts for conceptual models, functional prototypes, manufacturing tools and end-use parts.

The Fortus 450mc coupled with Insight front-end processing software lets you quickly manufacture parts that match your mechanical, thermal, aesthetic and resolution needs. With the Fortus 450mc you can accurately manufacture Real Parts with complex geometries, that are strong enough not only for functional testing, but end-use as well.

REAL PRODUCTION



SYSTEM SPECIFICATIONS

BASE SYSTEM CONFIGURATION	
Build Envelope (XYZ)	406 x 355 x 406 mm (16 x 14 x 16 inches)
Material Delivery	Two (2) Build Material Canisters Two (2) Support Material Canisters Auto changeover between canisters
MATERIAL OPTION SOFTWARE CAPABILITY	
Standard Option ABS - M30 ABS - M30i ABS - ESD7 ASA	Food & Medical Certification - ISO 10993 Electro dissipative Ultra violet stability
Engineering Option PC - ISO PC NYLON 12	Biocompatible Certification - ISO 10993 High Impact strength
High Performance Option ULTEM 9085 ULTEM 1010	FST compliance Available 2015 : Biocompatible Certification - ISO 10993
<i>Highest heat and chemical resistance Fortus material</i>	
OTHER SPECIFICATIONS	
System Size / Weight	152.4x118.59x22.98 cm - 601 kg
Achievable Accuracy	Parts are produced within an accuracy of +/- .127mm or +/- .0015mm / mm which ever is greater.
Power Requirements	120 / 208 VAC 3 phase nominal 18A / rated
Software	All Fortus systems include Insight and Control Center job processing and management software

At the core: Advanced FDM Technology

Fortus Systems are based on Stratasys FDM - Fused Deposition Modeling - technology. FDM is the industry's leading additive manufacturing technology, and the only one that uses 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 Production System just about anywhere. No special venting is required because Fortus systems do not produce noxious fumes, chemicals or waste.

No special skills needed

Fortus 3D Production Systems are easy to operate and maintain compared to other additive fabrication systems because there are no messy powders or resins to handle and contain. They are so simple, an operator can be trained to operate a Fortus system in less than 30 minutes.



3D Solids
Additive Manufacturing Technology

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