



Fortus 450mc 3D Printer

Quick Reference Card

Factory Floor Ready Additive Manufacturing Solution

How is the Fortus 450mc different?

Create complex geometries

- Create low-volume production parts, high-quality custom tools and functional prototypes
- The large build platform has the capability to meet industrial application needs
- Hands-free soluble support materials reduce labor while aiding in complex designs
- Easy to operate and integrate into your factory floor

Wide range of materials

- 21 available materials - 14 Stratasys Preferred and 7 Validated Materials - to support a wide range of applications
- From the stiff strength of carbon fiber to the chemical resistance and ESD performance of Antero™ thermoplastics, there's a material to meet your needs
- OpenAM software available for tailoring a material's performance to meet application needs

Unparalleled consistency and precision

- Parts from the Fortus 450mc have a high degree of dimensional accuracy and precision, shown over months of tests across multiple printers with various builds
- A low variance combined with a high print success rate give you consistent, repeatable results

Materials	ABS-ESD7™, ABS-M30™, ABS-M30i™, Antero™ 800NA, Antero™ 840CN03, ASA, FDM® Nylon 12, FDM® Nylon 12CF, PC, PC-ABS, PC-ISO™, ULTEM™ 9085 resin, ULTEM™ 1010 resin, ST-130, FDM HIPS, Kimya PC-FR, ULTEM™ 9085 resin colors (6 colors), PC Colors (2 colors), PC-ABS, VICTREX AM™ 200, PC-ESD
Build envelope	406 x 355 x 406 mm (16 x 14 x 16 in.)
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
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.)
Software	GrabCAD Print™, Insight™, GrabCAD Print Pro, Streamline Pro, OpenAM technology
Power requirements	208 VAC (3 phase), 50/60 Hz, consumes 18 Amps

Common Industries

- Aerospace
- Automotive
- Government and military
- General manufacturing

User Applications

- Production parts
- Functional prototyping
- Manufacturing tooling
- Surrogate parts



Over 3,300 installations in
40+ countries in 10+ years



Lower Cost by
98%



Achieve
95%
Lead Time
Savings



Produce
75%
Lighter Tools

“

Our Fortus 450mc enables us to overcome the limitations of our CNC machinery when it comes to design complexity, customization and production speed.”

Antonio Enguix Lozano
**CEO, Construcciones
Mecánicas Mecoval**

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