Fortus 900mc

Designed and built for size, throughput, precision and repeatability.

The Fortus 900mc™ is the most precise and powerful FDM system available. With the largest build size of any Fortus® system, the Fortus 900mc is designed to handle the most demanding manufacturing needs. The accuracy, repeatability and predictability are unmatched, and the control software leverages the system's hardware to deliver superior throughput and reliability.

The Fortus 900mc uses engineering-grade thermoplastics to build robust production parts, jigs, fixtures, factory tooling and functional prototypes. Large parts are printed fast with the standard, large T40A tip to help meet production demands with ease.

The Fortus 900mc offers a streamlined workflow and easier job monitoring with an internal camera and GrabCAD Print™. Standard certifications are included and reduce workload to qualify 3D printers for a production floor.

System Specifications

Build Envelope (XYZ)	914.4 x 609.6 x 914.4 mm (36 x 24 x 36 in.) Platen supports two build zones for either a small or large build sheet
Material Delivery	Two build material canisters 1508 cc (92 in.3) Two support material canisters 1508 cc (92 in.3) Auto changeover between canisters

Material Options

Material	Layer Thickness				Support Structure	Available Colors
	0.020 inch (0.508 mm)	0.013 inch (0.330 mm)	0.010 inch (0.254 mm)	0.007 inch (0.178 mm)		
ASA	●	●	●	●	Soluble	Black, Dark Gray, Light Gray, White, Ivory, Dark Blue, Green, Yellow, Orange, Red
ABS-M30™	○	●	●	●	Soluble	Ivory, White, Black, Red, Blue, Dark Gray
ABS-M30i™	○	●	●	●	Soluble	Ivory
ABS-ESD7™	○	○	●	●	Soluble	Black
PC-ABS	○	●	●	●	Soluble	Black
PC-ISO™	○	●	●	●	Breakaway	Translucent Natural, White
PC	○	●	●	●	Breakaway, Soluble	White
ULTEM™ 9085 resin	○	●	●	○	Breakaway	Tan, Black
ULTEM™ 1010 resin	●	●	●	○	Breakaway	Natural
PPSF	○	○	●	○	Breakaway	Tan
FDM Nylon 12™	○	●	●	●	Soluble	Black
FDM Nylon 6™	○	●	●	○	Soluble	Black
ST-130™	○	●	○	○	Breakaway	Natural
FDM Nylon 12CF™	○	○	●	○	Soluble	Black
Antero™ 840CN03	○	○	●	○	Breakaway	Black

Fortus 900mc

Other Specifications

System Size and Weight	2,772 x 1,683 x 2,027 mm (109.1 x 66.3 x 78.1 in); 2,869 kg (6,325 lbs.) With Manufacturing Light Tower: 2,772 x 1,683 x 2,281 mm (109.1 x 66.3 x 89.8 in.)
Achievable Accuracy	Parts are produced within an accuracy of +/- .0035 in. or +/-.0015 in. per in. whichever is greater (+/- .089 mm or +/- .0015 mm per mm 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. See Fortus 900mc accuracy white paper for more information.
Network Communication	10/100 base T connection. Ethernet protocol.
Operator Attendance	Limited attendance for job start and stop required.
Operating Environment[1]	Maximum room temperature of 85 °F (29 °C). Maximum room humidity of 80%.
Power Requirements[1]	230 VAC (three phase) 50/60Hz, Voltage fluctuation +/- Current 40A
Additional Requirements[1]	Compressed Air Required 90-120 psi with a minimum flow of 8 CFM
Regulatory Compliance[1]	CE, NRTL Listed
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 8.1 and Windows 8 (Pro, Enterprise), Microsoft Windows 7 (Pro, Enterprise, Ultimate), Microsoft Windows Vista (Business, Enterprise, Ultimate), Microsoft Windows Server 2008, Microsoft Windows Server 2003

[1] See Fortus 900mc Site Prep Guide for detailed power and environmental specs