



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

The Fortus 900mc™ was specifically designed for direct digital manufacturing. Not only has the build envelope dramatically increased in size over previous Fortus systems, there are significant differences in its mechanical, electromechanical and electrical systems. Specifically, the head gantry is driven by ball-screw technology resulting in more accurate parts with improvements in predictability and repeatability. Additionally, the control software has been modified to leverage the system's hardware advancements. These features deliver greater throughput, accuracy, repeatability, and reliability.

Like all Fortus 3D Production Systems, the Fortus 900mc uses stable thermoplastics that continue to outperform nearly all competing technologies in accuracy and repeatability. Proven FDM (Fused Deposition Modeling) technology manufactures Real Parts™ in production-grade thermoplastics that are ideal for conceptual modeling, functional prototyping, manufacturing tools, and end-use parts.



SYSTEM SPECIFICATIONS

| BASE SYSTEM CONFIGURATION | | | | | | | | | |
|---|--|---|---|---|---|---|---|--|---|
| Build Envelope (XYZ) | 36 x 24 x 36 inch (914.4 x 609.6 x 914.4 mm) Platen supports two (2) build zones for either a small or large build sheet | | | | | | | | |
| Material Delivery | Two (2) Build material canisters 92 in ³ (1508 cc) Two (2) Support material canisters 92 in ³ (1508 cc) Auto changeover between canisters | | | | | | | | |
| MATERIAL OPTIONS | | | | | | | | | |
| Layer Thickness: | ABSi | ABS-M30 | ABS-M30i | ABS-ESD7 | PC-ABS | PC-ISO | PC | ULTEM* 9085 | PPSF |
| 0.013 inch (0.330 mm) | X | X | X | | X | X | X | X | |
| 0.010 inch (0.254 mm) | X | X | X | X | X | X | X | X | X |
| 0.007 inch (0.178 mm) | X | X | X | X | X | | X | | |
| Support Structure: | Soluble | Soluble | Soluble | Soluble | Soluble | BASS | BASS, Soluble | BASS | BASS |
| Available Colors: | <ul style="list-style-type: none"> ■ Trans-lucent Natural ■ Trans-lucent Amber ■ Trans-lucent Red | <ul style="list-style-type: none"> ■ Ivory ■ White ■ Black ■ Red ■ Blue ■ Dark Grey | <ul style="list-style-type: none"> ■ Ivory | <ul style="list-style-type: none"> ■ Black | <ul style="list-style-type: none"> ■ Black | <ul style="list-style-type: none"> ■ Trans-lucent Natural ■ White | <ul style="list-style-type: none"> ■ White | <ul style="list-style-type: none"> ■ Tan ■ Black | <ul style="list-style-type: none"> ■ Tan |
| OTHER SPECIFICATIONS | | | | | | | | | |
| System Size/Weight | 109.1 x 66.3 x 79.8 inches (2772 x 1683 x 2027 mm) | | | | | | | | |
| System Size with manufacturing light tower | 109.1 x 66.3 x 89.8 inches (2772 x 1683 x 2281 mm) | | | | | | | | |
| Achievable Accuracy | Parts are produced within an accuracy of +/- .0035 inch or +/- .0015 inch per inch whichever is greater (+/- .089 mm or +/- .0015 mm per mm whichever is greater)* *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 Environment¹ | Maximum room temperature of 85°F (29°C). Maximum room humidity of 80% | | | | | | | | |
| Power Requirements¹ | 230 VAC (three phase) 50/60Hz, Voltage fluctuation +/- Current 40A | | | | | | | | |
| Additional Requirements¹ | Compressed Air Required | | | | | | | | |
| Regulatory Compliance¹ | CE | | | | | | | | |
| Software | All Fortus systems include Insight™ and Control Center™ job processing and management software. | | | | | | | | |

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

For more information about Fortus systems, materials and applications, call **888.480.3548** or visit www.fortus.com

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ISO 9001:2008 Certified

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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 don't 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'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 Production System is to have your own part built on a Fortus system. Get your free part at: www.fortus.com/benchmark

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 3D PRODUCTION SYSTEMS