

# FORTUS 250mc <sup>TM</sup>



REAL AFFORDABILITY

Get the reliability and flexibility of a professional-grade 3D production system at an affordable price.

With the Fortus 250mc you can produce durable prototypes, manufacturing tools and end-use parts using ABS plus P-430, a production-grade thermoplastic used in real manufacturing applications. Built on a proven Stratasys platform for reliable operation, the Fortus 250mc features a 10 x 10 x 12 inch (254 x 254 x 305 mm) build envelope and three layer thicknesses: .007, .010 and .013 inches (.178, .254 and .330 mm).

The Fortus 250mc is powered by Insight™ job processing and management software which offers users the flexibility to edit standard parameters that control the look, strength and precision of parts, as well as the time, throughput and efficiency of the build process. Like all Fortus 3D Production Systems, the Fortus 250mc utilizes Stratasys Fused Deposition Modeling™ (FDM®) technology to build parts from the bottom up with precisely deposited layers of modeling and support material.

The Fortus 250mc delivers reliable, flexible part production for prototyping and direct digital manufacturing – all at an affordable price.

REAL PRODUCTION-CLASS SYSTEM

**PROTO3000**  
3D Engineering Solutions



## SYSTEM SPECIFICATIONS

| SYSTEM CONFIGURATION  |   |  |   |  |   |  |               |   |   |  |   |   |  |
|---|---|--|---|--|---|--|---------------|---|---|--|---|---|--|
| Build Envelope (XYZ)  | 10 x 10 x 12 inches (254 x 254 x 305 mm)  |  |   |  |   |  |               |   |   |  |   |   |  |
| Material Delivery   | One (1) Build material cartridge: 56.3 in <sup>3</sup> (923 cc)<br>One (1) Support material cartridge: 56.3 in <sup>3</sup> (923 cc)  |  |   |  |   |  |               |   |   |  |   |   |  |
| MATERIAL OPTIONS  |   |  |   |  |   |  |               |   |   |  |   |   |  |
| Layer Thickness:  | ABS plus-P430   |  |   |  |   |  |               |   |   |  |   |   |  |
| 0.013 inch (0.330 mm)   | X   |  |   |  |   |  |               |   |   |  |   |   |  |
| 0.010 inch (0.254 mm)   | X   |  |   |  |   |  |               |   |   |  |   |   |  |
| 0.007 inch (0.178 mm)   | X   |  |   |  |   |  |               |   |   |  |   |   |  |
| Support Structure:  | Soluble   |  |   |  |   |  |               |   |   |  |   |   |  |
| Available Colors:   | <table border="0"> <tr> <td><span style="display: inline-block; width: 10px; height: 10px; background-color: #d9ead3; border: 1px solid #000; margin-right: 5px;"></span> Ivory</td> <td><span style="display: inline-block; width: 10px; height: 10px; background-color: #d9534f; border: 1px solid #000; margin-right: 5px;"></span> Red</td> <td><span style="display: inline-block; width: 10px; height: 10px; background-color: #ffff00; border: 1px solid #000; margin-right: 5px;"></span> Fluorescent Yellow</td> </tr> <tr> <td><span style="display: inline-block; width: 10px; height: 10px; background-color: #ffffff; border: 1px solid #000; margin-right: 5px;"></span> White</td> <td><span style="display: inline-block; width: 10px; height: 10px; background-color: #4f81bd; border: 1px solid #000; margin-right: 5px;"></span> Blue</td> <td>Custom Colors</td> </tr> <tr> <td><span style="display: inline-block; width: 10px; height: 10px; background-color: #333333; border: 1px solid #000; margin-right: 5px;"></span> Black</td> <td><span style="display: inline-block; width: 10px; height: 10px; background-color: #6aa84f; border: 1px solid #000; margin-right: 5px;"></span> Olive Green</td> <td></td> </tr> <tr> <td><span style="display: inline-block; width: 10px; height: 10px; background-color: #808080; border: 1px solid #000; margin-right: 5px;"></span> Dark Grey</td> <td><span style="display: inline-block; width: 10px; height: 10px; background-color: #ff7f0e; border: 1px solid #000; margin-right: 5px;"></span> Nectarine</td> <td></td> </tr> </table> | <span style="display: inline-block; width: 10px; height: 10px; background-color: #d9ead3; border: 1px solid #000; margin-right: 5px;"></span> Ivory              | <span style="display: inline-block; width: 10px; height: 10px; background-color: #d9534f; border: 1px solid #000; margin-right: 5px;"></span> Red | <span style="display: inline-block; width: 10px; height: 10px; background-color: #ffff00; border: 1px solid #000; margin-right: 5px;"></span> Fluorescent Yellow | <span style="display: inline-block; width: 10px; height: 10px; background-color: #ffffff; border: 1px solid #000; margin-right: 5px;"></span> White | <span style="display: inline-block; width: 10px; height: 10px; background-color: #4f81bd; border: 1px solid #000; margin-right: 5px;"></span> Blue | Custom Colors | <span style="display: inline-block; width: 10px; height: 10px; background-color: #333333; border: 1px solid #000; margin-right: 5px;"></span> Black | <span style="display: inline-block; width: 10px; height: 10px; background-color: #6aa84f; border: 1px solid #000; margin-right: 5px;"></span> Olive Green |  | <span style="display: inline-block; width: 10px; height: 10px; background-color: #808080; border: 1px solid #000; margin-right: 5px;"></span> Dark Grey | <span style="display: inline-block; width: 10px; height: 10px; background-color: #ff7f0e; border: 1px solid #000; margin-right: 5px;"></span> Nectarine |  |
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| OTHER SPECIFICATIONS  |   |  |   |  |   |  |               |   |   |  |   |   |  |
| System Size/Weight  | 33 x 29 x 45 inches (838 x 737 x 1143 mm)      With crate: 409 lbs. (186 kg)<br>Without crate: 326 lbs. (148 kg)  |  |   |  |   |  |               |   |   |  |   |   |  |
| Achievable Accuracy   | Parts are produced within an accuracy of +/- .005 inch or +/- .0015 inch per inch whichever is greater (+/- .127 mm or +/- .0015 mm per mm whichever is greater) +<br>*Note: Accuracy is geometry dependent. Achievable accuracy specification derived from statistical data at 95% dimensional yield. See Fortus 400mc/360mc 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   | Maximum room temperature of 86°F (30°C).<br>Relative humidity range: 30 to 70 percent, non condensing   |  |   |  |   |  |               |   |   |  |   |   |  |
| Power Requirements  | 110–120 VAC, 60 Hz, minimum 15A dedicated circuit; or 220–240 VAC 50/60 Hz, minimum 7A dedicated circuit.   |  |   |  |   |  |               |   |   |  |   |   |  |
| Regulatory Compliance   | CE / ETL  |  |   |  |   |  |               |   |   |  |   |   |  |
| 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 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.