Fortus 380mc and 450mc

Get the latest FDM® technology for advanced prototyping and production.
Bring the speed, agility and design freedom of advanced additive manufacturing to your business while gaining the latest advances in FDM technology. The Fortus 380mc™ and Fortus 450mc™ 3D Production Systems build high-requirement prototypes, rugged jigs, fixtures and tooling, and custom production parts in familiar thermoplastics. And these 3D production systems are engineered for ease of use, including an all-new, intuitive touchscreen interface for smooth workflow. Both let you choose materials individually or in economical bundles.

Fortus 380mc:
Quickly build advanced prototypes and production aids as large as 355 x 305 x 305 mm (14 x 12 x 12 in.) in seven standard and engineering thermoplastics.

Fortus 450mc:
Get all the capabilities of the Fortus 380mc, plus a larger build envelope (406 x 355 x 406 mm [16 x 14 x 16 in.]) and the option to run high-performance thermoplastics for specialized production parts in demanding fields such as medical, aerospace, research and defense.
Fortus 380mc and 450mc

At the core: Advanced FDM technology
Fortus® systems are based on Stratasys® FDM technology. FDM builds parts in 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 produce no noxious fumes, chemicals or waste.

No special skills needed
Compared to other additive fabrication systems, Fortus 3D Production Systems are easy to operate and maintain as there are no messy powders 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: stratasys.com

System Specifications

SYSTEM CONFIGURATION

<table>
<thead>
<tr>
<th>Build Envelope (XYZ)</th>
<th>380mc: 305 x 305 x 305 mm (12 x 12 x 12 in.)</th>
<th>450mc: 406 x 305 x 406 mm (16 x 12 x 16 in.)</th>
</tr>
</thead>
</table>

Material Delivery

<table>
<thead>
<tr>
<th>Material Delivery</th>
<th>380mc: One bay each for material and support canisters</th>
<th>450mc: Two bays each for material and support canisters</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Auto changeover between canisters</td>
<td>Auto changeover between canisters</td>
</tr>
</tbody>
</table>

MATERIAL OPTIONS

<table>
<thead>
<tr>
<th>Layer Thickness:</th>
<th>ABS-ESD7™</th>
<th>ABS-M30™</th>
<th>ASA</th>
<th>FDM Nylon 12™</th>
<th>PC</th>
<th>PC-ISOD™</th>
<th>ULTEM® 9085 resin</th>
<th>ULTEM® 1010 resin</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.330 mm (0.013 in.)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>0.254 mm (0.010 in.)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>0.178 mm (0.007 in.)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>0.127 mm (0.005 in.)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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</tr>
</tbody>
</table>

Support Structure:
Soluble Soluble Soluble Soluble Soluble Breakaway Breakaway Breakaway Breakaway

Available Colors:
- Black
- Ivory
- White
- Black
- Red
- Blue
- Dark Gray
- Translucent Natural
- White
- Tan
- Black
- Natural

OTHER SPECIFICATIONS

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.)

Achievable Accuracy
Parts are produced within an accuracy of ±0.127 mm (±.005 in.) or ±0.0015 mm/mm (±.0015 in/in), whichever is greater.
Note: Accuracy is geometry dependent. Achievable accuracy specification derived from statistical data at 95% dimensional yield.

Network Communication
10/100 base T connection. Ethernet protocol.

Operator Attendance
Limited attendance for job start and stop required.

Power Requirements
208VAC 3 phase, 50/60 Hz, consumes 18 Amps

Regulatory Compliance
CE

Software
All Fortus systems include Insight™ and Control Center™ job processing and management software.

Operating System
Microsoft Windows 8.1 and Windows 8 (Pro, Enterprise), Microsoft Windows 7 (Pro, Enterprise, Ultimate), Microsoft Windows Vista (Business, Enterprise, Ultimate),

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