

# 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.)<br>Platen supports two build zones for either a small or large build sheet                  |
| Material Delivery    | Two build material canisters 1508 cc (92 in.3)<br>Two support material canisters 1508 cc (92 in.3)<br>Auto changeover between canisters |

## Material Options

| Material          | Layer Thickness          |                          |                          |                          | Support Structure  | Available Colors  |
|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------|---|
|                   | 0.020 inch<br>(0.508 mm) | 0.013 inch<br>(0.330 mm) | 0.010 inch<br>(0.254 mm) | 0.007 inch<br>(0.178 mm) |                    |   |
| ASA               | ●                        | ●                        | ●                        | ●                        | Soluble            | <ul style="list-style-type: none"> <li>■ Black</li> <li>■ Dark Gray</li> <li>■ Light Gray</li> <li>□ White</li> <li>■ Ivory</li> <li>■ Dark Blue</li> <li>■ Green</li> <li>■ Yellow</li> <li>■ Orange</li> <li>■ Red</li> </ul> |
| ABS-M30™          | ○                        | ●                        | ●                        | ●                        | Soluble            | <ul style="list-style-type: none"> <li>■ Ivory</li> <li>□ White</li> <li>■ Black</li> <li>■ Red</li> <li>■ Blue</li> <li>■ Dark Gray</li> </ul>   |
| ABS-M30i™         | ○                        | ●                        | ●                        | ●                        | Soluble            | <ul style="list-style-type: none"> <li>■ Ivory</li> </ul>   |
| ABS-ESD7™         | ○                        | ○                        | ●                        | ●                        | Soluble            | <ul style="list-style-type: none"> <li>■ Black</li> </ul>   |
| PC-ABS            | ○                        | ●                        | ●                        | ●                        | Soluble            | <ul style="list-style-type: none"> <li>■ Black</li> </ul>   |
| PC-ISO™           | ○                        | ●                        | ●                        | ●                        | Breakaway          | <ul style="list-style-type: none"> <li>■ Translucent Natural</li> <li>□ White</li> </ul>  |
| PC                | ○                        | ●                        | ●                        | ●                        | Breakaway, Soluble | <ul style="list-style-type: none"> <li>□ White</li> </ul>   |
| ULTEM™ 9085 resin | ○                        | ●                        | ●                        | ○                        | Breakaway          | <ul style="list-style-type: none"> <li>■ Tan</li> <li>■ Black</li> </ul>  |
| ULTEM™ 1010 resin | ●                        | ●                        | ●                        | ○                        | Breakaway          | <ul style="list-style-type: none"> <li>■ Natural</li> </ul>   |
| PPSF              | ○                        | ○                        | ●                        | ○                        | Breakaway          | <ul style="list-style-type: none"> <li>■ Tan</li> </ul>   |
| FDM Nylon 12™     | ○                        | ●                        | ●                        | ●                        | Soluble            | <ul style="list-style-type: none"> <li>■ Black</li> </ul>   |
| FDM Nylon 6™      | ○                        | ●                        | ●                        | ○                        | Soluble            | <ul style="list-style-type: none"> <li>■ Black</li> </ul>   |
| ST-130™           | ○                        | ●                        | ○                        | ○                        | Breakaway          | <ul style="list-style-type: none"> <li>■ Natural</li> </ul>   |
| FDM Nylon 12CF™   | ○                        | ○                        | ●                        | ○                        | Soluble            | <ul style="list-style-type: none"> <li>■ Black</li> </ul>   |
| Antero™ 840CN03   | ○                        | ○                        | ●                        | ○                        | Breakaway          | <ul style="list-style-type: none"> <li>■ Black</li> </ul>   |

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## 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.)<br>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 <sup>1</sup>   | Maximum room temperature of 85 °F (29 °C). Maximum room humidity of 80%.  |
| Power Requirements <sup>1</sup>      | 230 VAC (three phase) 50/60Hz, Voltage fluctuation +/- Current 40A  |
| Additional Requirements <sup>1</sup> | Compressed Air Required 90-120 psi with a minimum flow of 8 CFM   |
| Regulatory Compliance <sup>1</sup>   | 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  |

<sup>1</sup> See Fortus 900mc Site Prep Guide for detailed power and environmental specs

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