

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 eight 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.

System Specifications

| | | |
|----------------------|---|---|
| Build Envelope (XYZ) | 380mc: 355 x 305 x 305 mm (14 x 12 x 12 in.) | 450mc: 406 x 355 x 406 mm (16 x 14 x 16 in.) |
| Material Delivery | 380mc: One bay each for material and support canisters | 450mc: Two bays each for material and support canisters. Auto changeover between canisters |

Material Options

| Material | Layer Thickness | | | | Support Structure | Available Colors | |
|--------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------|--|---|
| | 0.330 mm (0.013 in.) | 0.254 mm (0.010 in.) | 0.178 mm (0.007 in.) | 0.127 mm (0.005 in.) | | | |
| ABS-ESD7™ | ○ | ● | ● | ○ | Soluble | ■ Black | |
| ABS-M30™ | ● | ● | ○ | ● | Soluble | ■ Black ■ Blue | □ White ■ Red ■ Dark Gray |
| ABS-M30i™ | ● | ● | ● | ● | Soluble | ■ Ivory | |
| Antero™ 800NA* | ○ | ● | ○ | ○ | Breakaway | ■ Natural | |
| Antero 840CN03* | ○ | ● | ○ | ○ | Breakaway | ■ Natural | |
| ASA | ● | ● | ● | ● | Soluble | ■ Black ■ Dark Gray ■ Light Gray □ White ■ Ivory | ■ Dark Blue ■ Green ■ Yellow ■ Orange ■ Red |
| FDM Nylon 12™ | ● | ● | ● | ○ | Soluble | ■ Black | |
| FDM Nylon 12CF™* | ○ | ● | ○ | ○ | Soluble | ■ Black | |
| PC | ● | ● | ● | ● | Breakaway, Soluble | □ White | |
| PC-ABS | ● | ● | ● | ● | Soluble | ■ Black | |
| PC-ISO™ | ● | ● | ● | ○ | Breakaway | ■ Translucent Natural □ White | |
| ULTEM™ 9085 resin* | ● | ● | ○ | ○ | Breakaway | ■ Tan ■ Black | |
| ULTEM™ 1010 resin* | ● | ● | ○ | ○ | Breakaway | ■ Natural | |
| ST-130* | ● | ○ | ○ | ○ | Breakaway | ■ Tan | |

*Fortus 450mc only

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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 $\pm .127$ mm ($\pm .005$ in.) or $\pm .0015$ mm/mm ($\pm .0015$ in/in), 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. |
| 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, cTUVus, EAC, FCC Part B |
| 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 10 (Pro, Enterprise, Education), Microsoft Windows 8.1 and Windows 8 (Pro, Enterprise), Microsoft Windows 7 (Pro, Enterprise, Ultimate), Microsoft Windows Server 2012 R2. Insight software requires a 64-bit operating system. |

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