

Stratasys Fortus 450mc

Industrial FDM technology with an open material ecosystem for advanced prototyping, tool production and end-use parts.

Bring the speed, agility and design freedom of advanced additive manufacturing to your business while gaining the latest advances in FDM® technology. The Fortus 450mc™ 3D printer builds high-requirement functional prototypes, rugged manufacturing tooling and custom production parts in its large 406 x 355 x 406 mm (16 x 14 x 16 in.) build envelope. Fourteen Stratasys Preferred Materials¹, multiple Stratasys Validated Materials² and soluble support address a wide variety of applications.



Fortus 450mc Specifications

Build Tray Dimensions 406 x 355 x 406 mm (16 x 14 x 16 in.)

Material Delivery Two bays each for material and support canisters. Auto changeover between canisters

Materials

Stratasys Preferred Materials

| Model Material | Layer Thickness | | | | Support Structure | Available Colours |
|-------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------|---|
| | 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 | ■ Ivory ■ Black ■ Blue □ White ■ Red ■ Dark Grey |
| ABS-M30i | ● | ● | ● | ● | Soluble | ■ Ivory |
| Antero 800NA | | ● | | | Breakaway | ■ Natural |
| Antero 840CN03 | | ● | | | Breakaway | ■ Natural |
| ASA | ● | ● | ● | ● | Soluble | ■ Black ■ Dark Grey ■ Light Grey □ White ■ Ivory ■ Dark Blue ■ Green ■ Yellow ■ Orange ■ Red |
| FDM Nylon 12 | ● | ● | ● | | Soluble | ■ Black |
| FDM Nylon 12CF | | ● | | | Soluble | ■ Black |
| PC | ● | ● | ● | ● | Breakaway, Soluable | □ 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 |

Stratasys Fortus 450mc

Materials

Stratasys Validated Materials

| Model Material | Layer Thickness | | | | Support Structure | Available Colours |
|--------------------------------|-------------------------|-------------------------|------------------------|------------------------|-------------------|--|
| | 0.330 mm (0.013 in.) | 0.254 mm (0.010 in.) | 0.178 mm (0.007 in) | 0.127 mm (0.005 in) | | |
| FDM HIPS | | ● | | | Breakaway | ■ Light Grey |
| Addigy® PA6/66- GF20 FR LS | | ● | | | Breakaway | ■ Black |
| Victrax AM™ 200 | | ● | | | Soluble | ■ Natural |
| Kimya Kepstan® PEKK-SC | | ● | | | Breakaway | ■ Natural |
| Kimya PC-FR | | ● | | | Soluble | ■ Light Grey |
| ULTEM® 9085 Resin (colored) | | ● | | | Breakaway | □ White 7362 ■ Red ■ JanaWhite ■ Gunship Grey ■ Dream Grey ■ Aircraft Grey |
| PC (polycarbonate) | | ● | | | Soluble | ■ Red ■ Black |
| PC-ABS | | ● | | | Soluble | ■ Red |

Other specifications

| | |
|------------------------------|---|
| System Size / 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 ± .127 mm (± .005 in.) or ± .0015 mm/mm (± .0015 in/in), whichever is greater). Z part accuracy includes an additional tolerance of -0.000/+slice height. |
| Network Connectivity | 10/100 base T connection. Ethernet protocol |
| Operator Attendance | Limited attendance for job start and stop required |
| Software | GrabCAD Print software, Insight Software, Control Center |
| Operating Environment | Maximum room temperature of 29 °C (85 °F). Maximum room humidity of 80%. |
| Power Requirements | 208VAC 3 phase, 50/60 Hz, consumes 18 Amps |
| Regulatory Compliance | CE, cTUVus, RCM, EAC, FCC Part B |
| 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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