

# Stratasys F900

## Designed and built for size, throughput, precision and repeatability.

The [Stratasys F900™](#) is one of the most precise and powerful [FDM®](#) systems available. With the largest build size of any Stratasys FDM system, the Stratasys F900 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 Stratasys F900 uses Stratasys Preferred and Validated thermoplastics to build robust production parts, jigs, fixtures, factory tooling and functional prototypes. Large parts are printed fast with slice heights up to 0.020 inches to help meet production demands with ease.

The Stratasys F900 offers a streamlined workflow and easier job monitoring with an internal camera, [GrabCAD Print™ software](#), Insight™ and MTConnect readiness. Data security, including U.S. Department of Defense STIG compliance, is provided by Stratasys ProtectAM™ technology. 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 model material canisters 1,508 cc (92 in. <sup>3</sup> )<br>Two support material canisters 1,508 cc (92 in. <sup>3</sup> )<br>Auto changeover between canisters |

### Material Options

#### Stratasys Preferred Materials

| 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) | 0.005 inch<br>(0.127 mm) |                                  |   |
| <a href="#">ASA</a>               | ●                        | ●                        | ●                        | ●                        | ●                        | 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> |
| <a href="#">ABS-M30™</a>          | ○                        | ●                        | ●                        | ●                        | ○                        | 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>   |
| <a href="#">ABS-M30i™</a>         | ○                        | ●                        | ●                        | ●                        | ○                        | Soluble                          | <ul style="list-style-type: none"> <li>■ Ivory</li> </ul>   |
| <a href="#">ABS-ESD7™</a>         | ○                        | ○                        | ●                        | ●                        | ○                        | Soluble                          | <ul style="list-style-type: none"> <li>■ Black</li> </ul>   |
| <a href="#">Antero™ 800NA</a>     | ○                        | ○                        | ●                        | ○                        | ○                        | Breakaway<br>(support structure) | <ul style="list-style-type: none"> <li>■ Natural</li> </ul>   |
| <a href="#">Antero™ 840CN03</a>   | ○                        | ○                        | ●                        | ○                        | ○                        | Breakaway<br>(support structure) | <ul style="list-style-type: none"> <li>■ Natural</li> </ul>   |
| <a href="#">PC-ABS</a>            | ○                        | ●                        | ●                        | ●                        | ○                        | Soluble                          | <ul style="list-style-type: none"> <li>■ Black</li> </ul>   |
| <a href="#">PC-ISO™</a>           | ○                        | ●                        | ●                        | ●                        | ○                        | Breakaway                        | <ul style="list-style-type: none"> <li>■ Translucent Natural</li> <li>□ White</li> </ul>  |
| <a href="#">PC</a>                | ○                        | ●                        | ●                        | ●                        | ○                        | Breakaway,<br>Soluble            | <ul style="list-style-type: none"> <li>□ White</li> </ul>   |
| <a href="#">ULTEM™ 9085 resin</a> | ○                        | ●                        | ●                        | ○                        | ○                        | Breakaway                        | <ul style="list-style-type: none"> <li>■ Tan</li> <li>■ Black</li> </ul>  |
| <a href="#">ULTEM™ 1010 resin</a> | ●                        | ●                        | ●                        | ○                        | ○                        | Breakaway                        | <ul style="list-style-type: none"> <li>■ Natural</li> </ul>   |
| <a href="#">PPSF</a>              | ○                        | ○                        | ●                        | ○                        | ○                        | Breakaway                        | <ul style="list-style-type: none"> <li>■ Tan</li> </ul>   |
| <a href="#">FDM® Nylon 12</a>     | ○                        | ●                        | ●                        | ●                        | ○                        | Soluble                          | <ul style="list-style-type: none"> <li>■ Black</li> </ul>   |
| <a href="#">FDM® Nylon 6</a>      | ○                        | ●                        | ●                        | ○                        | ○                        | Soluble                          | <ul style="list-style-type: none"> <li>■ Black</li> </ul>   |
| <a href="#">FDM® Nylon 12CF</a>   | ○                        | ○                        | ●                        | ○                        | ○                        | Soluble                          | <ul style="list-style-type: none"> <li>■ Black</li> </ul>   |
| <a href="#">ST-130™</a>           | ○                        | ●                        | ○                        | ○                        | ○                        | Breakaway                        | <ul style="list-style-type: none"> <li>■ Natural</li> </ul>   |

# Stratasys F900

## Material Options

### Stratasys Validated Materials

| Material                            | Layer Thickness         |                         |                         |                         | Support Structure | Available Colors                      |   |
|-------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------|---------------------------------------|---|
|                                     | 0.330 mm<br>(0.013 in.) | 0.254 mm<br>(0.010 in.) | 0.178 mm<br>(0.007 in.) | 0.127 mm<br>(0.005 in.) |                   |                                       |   |
| FDM HIPS                            | ○                       | ●                       | ○                       | ○                       | Breakaway         | ■ Light Gray                          |   |
| Kimya PC-FR                         | ○                       | ●                       | ○                       | ○                       | Soluble           | ■ Light Gray                          |   |
| ULTEM® 9085 Resin<br>(colored)      | ○                       | ●                       | ○                       | ○                       | Breakaway         | ■ Red<br>■ Jana White<br>■ Dream Gray | □ White 7362<br>■ Gunship Gray<br>■ Aircraft Gray |
| PC (polycarbonate)                  | ○                       | ●                       | ○                       | ○                       | Soluble           | ■ Red                                 |   |
| PC-ABS<br>(polycarbonate/ABS blend) | ○                       | ●                       | ○                       | ○                       | Soluble           | ■ Red                                 |   |

## 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 +/- .089 mm or +/- .0015 mm per mm whichever is greater (+/- .0035 in. or +/- .0015 in. per 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. 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   | Maximum room temperature of 29 °C (85 °F). Maximum room humidity of 80%.  |
| Power Requirements      | 230 VAC (three phase) 50/60Hz, Voltage fluctuation +/- Current 40A  |
| Additional Requirements | Compressed Air Required 90-120 psi with a minimum flow of 20 CFM  |
| Regulatory Compliance   | CE, cTUVus, RCM, 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. U.S. government agency STIG compliance via Stratasys ProtectAM technology is powered by Red Hat® Enterprise Linux® software.   |
| 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  |



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