

Stratasys F123 Series



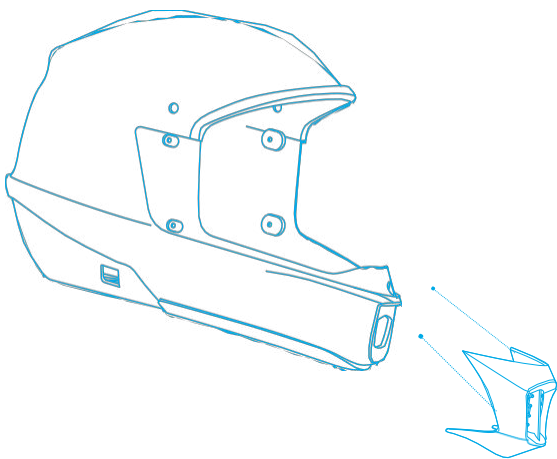
Reliable. Repeatable. Exceptional.



F123

Precision 3D printing. Easy as F123.

More reliable, more affordable,
more productive rapid prototyping
and manufacturing than ever before.



More speed. More productivity.

F123 Series 3D printers give designers, engineers and educators access to affordable, industrial-grade 3D printing. Work faster through concept iterations and component verification. Make jigs, fixtures and manufacturing tools faster, with strong, stiff materials. Increase productivity and reach your goals sooner with repeatable results.



Smoother workflow. Quieter workspace.

F123 3D printers are designed for supreme ease of use and a more streamlined workflow, working seamlessly with the design-to-print GrabCAD Print™ software. They provide the reliability and simplicity needed in a 3D printing platform to refine designs. This can be done within the work space, thanks to clean, quiet, safety-certified printers.



Data protection. When you need it.

Safeguard your 3D printing data with Stratasys ProtectAM™. Available on the F370, ProtectAM technology provides data security, including U.S. Department of Defense STIG compliance, for ongoing security of information processing.

Elastomer

Print large, complex elastomer parts with the F170™, F270™ and F370™ printers.



30 years of expertise.
100,000 hours of testing.
Only one F123 Series.

For companies and schools new to 3D printing and established users alike, Stratasys F123 3D printers are the game-changing choice, with the highest levels of plug-and-print reliability and repeatable accuracy.



More choices. More possibilities.

From the affordable F170™ through the versatile F370, the choices available with F123 Series printers are unmatched. Work with a wide range of materials including carbon fiber ABS and elastomer. Achieve complex geometries and interlocking components with our unique soluble support material. However intricate the part, the soluble support dissolves to leave a pristine finish, requiring no hands-on removal.



Want to know more?

View the full specifications of our F123 Series below or contact us for a recommendation on the right system for you at [Stratasys.com](https://www.stratasys.com).



PRODUCT SPECIFICATIONS

| System Size and Weight | F170, F270, F370: 1,626 x 864 x 711 mm (64 x 34 x 28 in.), 227 kg (500 lbs) with consumables | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--|-------|-------|-------|-------|-------|-------|-------------------|----|-------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Noise Specification | 46 dB maximum during build , 35 dB when idle | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Layer Thickness | <table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>in.)</th> <th>mm</th> <th>in.)</th> <th>mm</th> <th>in.)</th> <th>mm</th> <th>in.)¹</th> </tr> </thead> <tbody> <tr> <td>PLA</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> </tr> <tr> <td>ABS-M30</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> </tr> <tr> <td>ABS-CF10</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> </tr> <tr> <td>ASA</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> </tr> <tr> <td>PC-ABS</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> </tr> <tr> <td>ABS-ESD7™</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> </tr> <tr> <td>Diran™ 410MF07</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> </tr> <tr> <td>FDM™ TPU 92A</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> <td>0.125</td> <td>0.005</td> </tr> </tbody> </table> | | mm | in.) | mm | in.) | mm | in.) | mm | in.) ¹ | PLA | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | ABS-M30 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | ABS-CF10 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | ASA | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | PC-ABS | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | ABS-ESD7™ | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | Diran™ 410MF07 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | FDM™ TPU 92A | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 |
| | mm | in.) | mm | in.) | mm | in.) | mm | in.) ¹ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PLA | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ABS-M30 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ABS-CF10 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ASA | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PC-ABS | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ABS-ESD7™ | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diran™ 410MF07 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FDM™ TPU 92A | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | 0.125 | 0.005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accuracy ¹ | Parts are produced within an accuracy of +/- .200 mm (.008 in), or +/- .002 mm/mm (.002 in/in), whichever is greater. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Network Connectivity | Wired: TCP/IP protocols at 100 Mbps minimum 100 base T, Ethernet protocol, RJ45 connector Wireless-ready: IEEE 802.11n, g, or b; Authentication: WPA2-PSK, 802.1x EAP; Encryption: CCMP, TKIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| System Requirements | Windows 7, 8, 8.1 and 10 (64 bit only) with a minimum of 4GB RAM (8 GB or more recommended) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operating Environment | Operating: Temperature: 59 – 86 °F (15 – 30 °C), Humidity: 30 – 70% RH Storage: Temperature: 32 – 95 °F (0 – 35 °C), Humidity: 20 – 90% RH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power Requirements | 100–132V/15A or 200 – 240V/7A. 50/60 Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Regulatory Compliance | CE (low-voltage and EMC directive), FCC, EAC, cTUVus, FCC, KC, RoHs, WEEE, Reach | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | F170 | F270 | F370 |
|----------------------|--|--|---|
| Available material | PLA ² , ABS-M30, ABS-CF10, ASA, TPU 92A, QSR Support material | PLA ² , ABS-M30, ABS-CF10, ASA, TPU 92A, QSR Support material | PLA ² , ABS-ESD7, ABS-M30, ABS-CF10, ASA, Diran 410MF07 ² , FDM TPU 92A, PC-ABS, QSR Support material |
| Build tray dimension | 254 x 254 x 254 mm (10 x 10 x 10 in.) | 305 x 254 x 305 mm (12 x 10 x 12 in.) | 355 x 254 x 355 mm (14 x 10 x 14 in.) |
| Material Bays | 2 total 1 model / 1 support | 4 total 2 model / 2 support | 4 total 2 model / 2 support |
| Software | GrabCAD Print | GrabCAD Print | GrabCAD Print Insight™ ProtectAM ³ |

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ISO 9001:2015 Certified

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¹ Accuracy is geometry-dependent. Achievable accuracy specification derived from statistical data at 95% dimensional yield. Z part accuracy includes an additional tolerance of -0.000/+slice height.

² PLA and Diran 410MF07 do not utilize soluble support material. The supports are made of breakaway PLA.

³ U.S. government agency STIG compliance via Stratasys ProtectAM technology is powered by Red Hat® Enterprise Linux® software.