

# The Stratasys F123 Series

The Stratasys [F120™, F170™, F270™ and F370™ 3D printers](#) combine dependable [FDM® technology](#) with design-to-print [GrabCAD Print™ software](#) for accurate, professional 3D printing results.

F123 Series printers are designed for ease of use, so you don't need special 3D printing expertise. True plug-and-play capability, auto-calibration and fast, easy material swaps mean more time printing, maximizing your productivity. Super-quiet, clean operation makes any of these printers right at home in an office or classroom environment.

Fast-draft mode prints initial design concepts quickly and economically, while consuming half the material on average. Hands-free soluble support removal enables the creation of complex parts without compromising accuracy or detail. Remote monitoring lets you easily manage your print jobs from outside the office.

## Product Specifications

System Size and Weight	<b>F120:</b> 889 x 870 x 721 mm (35 x 35 x 29 in.), 124 kg (275 lbs) <b>F170, F270, F370:</b> 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
Accuracy <sup>1</sup>	Parts are produced within an accuracy of +/- .200 mm (.008 in), or +/- .002 mm/mm (.002 in/in), whichever is greater.
Material Delivery Options	<b>Stratasys F120:</b> 2 material coil boxes, 1 for model, 1 for support located external to printer <b>Stratasys F170:</b> 2 material spool bays, 1 for model, 1 for support located in a drawer on the front of the unit <b>Stratasys F270/F370:</b> 4 material spool bays, 2 for model, 2 for support located in a drawer on the front of the unit
Network Connectivity	<b>Wired:</b> TCP/IP protocols at 100 Mbps minimum 100 base T, Ethernet protocol, RJ45 connector <b>Wireless-ready:</b> IEEE 802.11n, g, or b; Authentication: WPA2-PSK, 802.1x EAP <b>Encryption:</b> CCMP, TKIP
Software	<b>GrabCAD Print (download):</b> Stratasys F120, F170, F270 and F370 <b>Insight software license:</b> Stratasys F370 only
System Requirements	Windows 7, 8, 8.1 and 10 (64bit only) with a minimum of 4GB RAM (8GB or more recommended)
Operating Environment	<b>Operating:</b> Temperature: 15 – 30 °C (59 – 86 °F), Humidity: 30 – 70% RH <b>Storage:</b> Temperature: 0 – 35 °C (32 – 95 °F), 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

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## Model Capabilities

Printer	Maximum Build Size (XYZ)	Model Materials
Stratasys F120	254 x 254 x 254 mm (10 x 10 x 10 in.)	ABS-M30™, ASA, SR-30 Support material
Stratasys F170	254 x 254 x 254 mm (10 x 10 x 10 in.)	PLA <sup>2</sup> , ABS-M30, ASA, FDM TPU 92A, QSR™ Support material
Stratasys F270	305 x 254 x 305 mm (12 x 10 x 12 in.)	PLA <sup>2</sup> , ABS-M30, ASA, FDM TPU 92A, QSR Support material
Stratasys F370	355 x 254 x 355 mm (14 x 10 x 14 in.)	PLA <sup>2</sup> , ABS-M30, ASA, FDM TPU 92A, PC-ABS, QSR Support material

## Layer Thickness

Material	0.013 in. (0.330 mm)	0.010 in. (0.254 mm)	0.007 in. (0.178 mm)	0.005 in. (0.127 mm) <sup>3</sup>
<a href="#">PLA</a>	○	●	○	○
<a href="#">ABS</a>	●	●	●	●
<a href="#">ASA</a>	●	●	●	●
<a href="#">PC-ABS</a>	●	●	●	●
<a href="#">TPU 92A</a>	○	●	○	○

<sup>1</sup> 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.

<sup>2</sup> PLA does not utilize soluble support material. The supports are made of breakaway PLA.

<sup>3</sup> Not available on the F120.

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