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	**F120:** 889 x 870 x 721 mm (35 x 35 x 29 in.), 124 kg (275 lbs) **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
Accuracy[1]	Parts are produced within an accuracy of +/- .200 mm (.008 in), or +/- .002 mm/mm (.002 in/in), whichever is greater.
Material Delivery Options	**Stratasys F120:** 2 material coil boxes, 1 for model, 1 for support located external to printer **Stratasys F170:** 2 material spool bays, 1 for model, 1 for support located in a drawer on the front of the unit **Stratasys F270/F370:** 4 material spool bays, 2 for model, 2 for support located in a drawer on the front of the unit
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
Software	**GrabCAD Print (download):** Stratasys F120, F170, F270 and F370 **Insight software license:** 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	**Operating:** Temperature: 15 – 30 ºC (59 – 86 ºF), Humidity: 30 – 70% RH **Storage:** Temperature: 0 – 35 ºC (32 – 95 ºF), 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, RCM

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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[2], ABS-M30, ASA, FDM TPU 92A, ABS-CF10, QSR™ Support material
Stratasys F270	305 x 254 x 305 mm (12 x 10 x 12 in.)	PLA[2], ABS-M30, ASA, FDM TPU 92A, ABS-CF10, QSR Support material
Stratasys F370	355 x 254 x 355 mm (14 x 10 x 14 in.)	PLA[2], ABS-ESD7™, ABS-M30, ASA, Diran™ 410MF07[2], FDM TPU 92A, PC-ABS, ABS-CF10, 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)[3]**
PLA	○	●	○	○
ABS	●	●	●	●
ASA	●	●	●	●
PC-ABS	●	●	●	●
ABS-ESD7	○	●	○	○
Diran 410MF07	●	●	●	○
FDM TPU 92A	○	●	○	○
ABS-CF10[3]	●	●	●	○

[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] Not available on the F120.

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