The Stratasys F123 Series

SMARTER PROTOTYPING FOR BUSINESS

The Stratasys F123 series is the ultimate, all-in-one rapid prototyping solution.

Smarter prototyping for your entire office.

Now there's a more capable, more affordable professional rapid prototyping solution for your entire office — from the leader in 3D printing. The Stratasys F123 series combines powerful FDM technology with design-to-print GrabCAD software for the most versatile and intelligent solution available. Produce fast, effective prototypes for concept development, as well as highly accurate and robust parts for design validation and functional performance. Share projects between multiple users. Get your new product designs to market faster. And do it all without the need for dedicated expert staffing. It's just one more way we shape what's next.

User-Friendly, Office-Friendly

The new Stratasys F123 series is easy to operate and maintain for all levels of experience. And, it's adept at every prototyping stage, from concept verification to design validation to functional performance.

A variety of the most commonly used CAD file formats can be imported directly into the software. The three printers in the platform, the Stratasys F170™, F270™ and Stratasys F370™, support a broad range of capabilities and budgets for every stage of prototyping.

Minimal setup means you can simply plug and play to give your entire office access to professional 3D printing.

Auto-calibration ensures you spend less time troubleshooting and more time prototyping.

Fast and easy material swaps to help maximize your design team's productivity.

Smarter Software

GrabCAD Print™ software simplifies the entire 3D printing process with an intuitive CAD-like application anyone on your team can use. And with features like detailed reporting and remote monitoring, you can easily manage your print jobs from outside the office. Combined with the ability to seamlessly shareprojects between users, it all adds up to a more streamlined, efficient workflow.
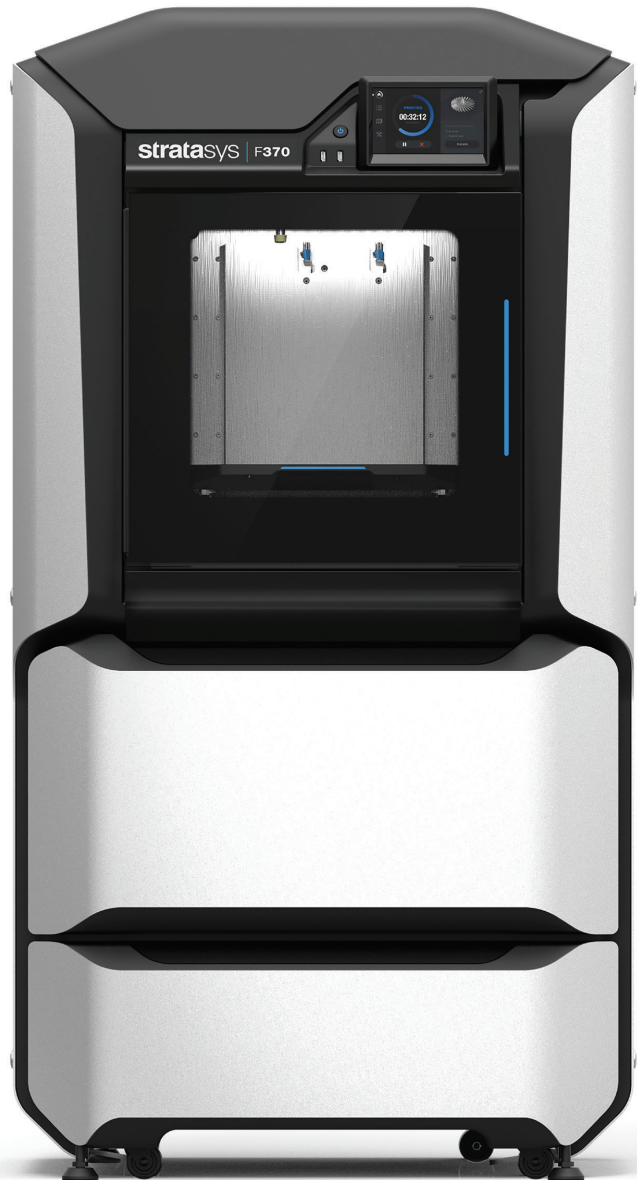
Versatility and Performance

The Stratasys F123 series lets you print everything from fast, low-cost concept models to durable assemblies. And the Stratasys F123 series gives the option of up to four different materials, along with our easy-to-remove soluble support material.* Create complex parts and assemblies with no compromise on accuracy, detail and repeatability. Even for your earliest design iterations, you can expect Stratasys quality and dependability.

More Efficiency

The Stratasys F123 series also features the all-new fast-draft mode to produce initial design concepts quickly and economically. Now you can print twice as fast as standard build mode while consuming just a third of the material on average. For even more efficiency and savings, choose PLA. A thermoplastic made from renewable resources, PLA gives you the speed of fast-draft mode while keeping material expenses down. Spend less, create more. That's smarter 3D printing.

Exceptional Value

The all-in-one power of the Stratasys F123 series gives you value all around — with expanded capabilities and unprecedented accessibility. New and improved features save time and material. Incredible ease of use with both the hardware and the software means you don't need special 3D printing expertise. Super quiet and office friendly. Reliable, consistent printing ensures less waste. Designed for the way you work, it's a smart business move.

PRODUCT SPECIFICATIONS

System Size and Weight	1626 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			

Model Capabilities

		Stratasys F170	Stratasys F270	Stratasys F370
Model Capabilities	Maximum Build Size (XYZ)	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.)
	Model Materials	PLA*, ABS-M30™, ASA, QSR support material	PLA*, ABS-M30, ASA, QSR support material	PLA*, ABS-M30, ASA, PC-ABS, QSR support material

Layer Thickness

		0.013 in. (0.330 mm)	0.010 in. (0.254 mm)	0.007 in. (0.178 mm)	0.005 in. (0.127 mm)
Layer Thickness	PLA		X		
	ABS	X	X	X	X
	ASA	X	X	X	X
	PC-ABS	X	X	X	X

Accuracy	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 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: IEEE 802.11n, g, or b; Authentication: WPA2-PSK, 802.1x EAP; Encryption: CCMP, TKIP
Software	GrabCAD Print (download): Stratasys 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: 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, FCC, EAC, EMC (low-voltage directive), TUV, FCC, RC, RCM, RoHs, WEEE, Reach

PLA does not utilize soluble support material. The supports are made of breakaway PLA.