



Accessible Large-Format FDM Printing

Industrial scale printing. Simplified.

Print big without the high capital investment of exclusive, large-format printers. The Stratasys F770™ 3D printer makes printing large, complex parts affordable, reliable and easy.

stratasys

Brochure



Print large or print many.

The F770 is designed with size in mind. Print one or several large parts or take advantage of the printer's generous capacity to make multiple parts for maximum productivity.

With the longest fully heated build chamber on the market, you can print a part that is 46 inches long on the diagonal. The spacious 13 cubic-foot build envelope opens up new opportunities for manufacturing, prototyping and production-part part applications that aren't available with smaller printers.

There's no need to sacrifice on part complexity either. The F770 uses soluble support material, which lets you design and print your parts free from design-for-manufacturability constraints or the limitations of printers with inferior support capability. The hands-free support removal process also minimizes post-processing, increasing your productivity.





Print-and-forget dependability.

Get accurate print results along with the repeatability and reliability that FDM Technology™ is known for. Stratasys FDM build chamber design is time-tested, ensuring precise thermal management across the build platen. This gives you consistent, successful print results, whether parts are big or small.

You can easily control the material density options. Print with full density when you need the strength or use a sparser fill to save material and print time, a valuable option for very large parts. Variable slice height capability also lets you optimize your part's appearance while minimizing print time.

The F770 embodies the same industrial-grade components and design philosophy that make FDM Technology a class leader for reliability and consistent performance. It is proven technology that simply works.



A printer anyone can operate.

3D printing with the F770 is straightforward and requires no specialized training. It's designed with plug-and-print simplicity so virtually anyone can print large, complex parts quickly and easily.

The user-friendly GrabCAD Print™ software offers advanced 3D slicer software. This enables you to prioritize parts, enhance details, and apply high-level geometrical changes. Before sending parts to the printer, you can easily access in-depth views of your model, tray, and slice preview. This ensures successful results when printing large parts and tools.

The upgraded version, GrabCAD Print Pro™, includes all of the benefits of the standard version as well as enhanced features that support high-performance end-use parts or prototypes utilized in process-controlled conditions. This includes labeling for traceability, automation, templates, part cost estimation, a sustainability calculator, and automatic model correct. With these tools, manufacturing at scale is easily achievable.

3D printing with the F770 is also a lights-out, 24/7 operation. There's no need to constantly monitor the printer while it's operating. Quick-change material canisters are equipped with 200 cubic inches of filament, enabling up to 140 hours of unattended printing. When you do want to check progress, the F770's built-in camera provides continually updated static images of print status, and GrabCAD Print's monitoring feature lets you check this remotely from your mobile device.

Print big for a not-so-big price.

Large-format printing doesn't have to break your budget. The F770 is designed to make reliable, large-scale printing more accessible, with an affordable price. That's possible because not all 3D printing applications require high-performance materials or all the capabilities engineered into large, more expensive printers.

Instead, the F770 gives you access to widely used engineering-grade thermoplastic materials and Stratasys FDM reliability. It does all this in a large-format, easy-to-use platform, for the best value available for 3D printing large, complex parts.



Unmatched support, when you need it.

Stratasys invented FDM Technology and we've been perfecting it for over 30 years. Our technicians and application engineers have the knowledge to make the most of your printer investment and address problems when they occur.

When you need help, our global support staff is here to assist, from professional installations to application guidance to on-site troubleshooting. Whether it's optimizing your print results, solving a problem or providing training, Stratasys service and support has the experience and reach to keep you operational.

To learn more about the Stratasys F770, see the specifications below. Or contact a Stratasys representative by visiting Stratasys.com/contact-us.



See
the specs.

F770 Printer and Material Specifications	
System Size and Weight	175 x 124 x 196 cm (69 x 49 x 77 in.) 658 kg (1450 lbs.)
Build Envelope	1000 x 610 x 610 mm / 372,000 cm^3 (39.4 x 24 x 24 in. / 22,677 in^3) Maximum length on the diagonal – 1,171 mm (46.1 in.)
Materials	ASA – Ivory, Red, White, Light Gray, Black, Blue, Yellow ABS-M30™ – Black SR-30™ soluble support material
Material Delivery	200 in^3 coil box (3277 cm^3)
Achievable Accuracy	XY part accuracy = +/- 0.254 mm (+/- 0.010 in.) or +/- 0.002 mm/mm (+/- 0.002 in./in.), whichever is greater Z part accuracy = +/- 0.200 mm (+/- 0.008 in.) or +/- 0.002 mm/mm (+/- 0.002 in./in.), plus 1 layer height
Software	GrabCAD Print, GrabCAD Print Pro, Insight, Control Center™, MTConnect enabled
Workstation Compatibility	Wired and wireless (with USB dongle) network interfaces using standard TCP/IP protocols at 100 MBPS minimum
Wireless Network Connectivity	IEEE 802.11n-2009 IEEE 802.11g-2003 IEEE 802.11b-1999
Operating Conditions	Operating temperature 15 °C to 30 °C (59 °F to 86 °F) Operating Humidity 30-70% - 39 in. clearance on each side of printer
Audible Noise/Acoustics	54 dBA
Power Requirements	3 phase, 208V, 30A, 5 wire, 47-63 Hz frequency
Regulatory Compliance	CE, cTUVus, RCM, EAC, FCC Part B
Facility Requirements	Double-door width for installation, vacuum pump within system – no shop air required, forklift uncrating and installation
Installation Requirements	Crate = 186.7 cm W x 146 cm D x 225.4 cm H (73.5 in. W x 57.5 in. D x 88.75 in. H) Crated weight = 907 kg (2000 lbs)



Stratasys Headquarters

7665 Commerce Way,
Eden Prairie, MN 55344
+1 800 801 6491 (US Toll Free)
+1 952 937-3000 (Intl)
+1 952 937-0070 (Fax)

1 Holtzman St., Science Park,
PO Box 2496
Rehovot 76124, Israel
+972 74 745 4000
+972 74 745 5000 (Fax)

stratasys.com
ISO 9001:2015 Certified

© 2023 Stratasys. All rights reserved. Stratasys, the Stratasys Signet logo and FDM are registered trademarks of Stratasys Inc. F770, ABS-M30, SR-30, GrabCAD Print, GrabCAD Print Pro, Insight and Control Center are trademarks of Stratasys, Inc. Red Hat is a registered trademark of Red Hat, Inc. in the United States and other countries. All other trademarks are the property of their respective owners, and Stratasys assumes no responsibility with regard to the selection, performance, or use of these non-Stratasys products. Product specifications subject to change without notice. BR_FDM_F770_0223a