The Stratasys
F770

Reliable large-scale printing in a user-friendly, affordable system.

The F770™ offers one of the largest print volumes among Stratasys FDM® systems. With over 0.37m³ (13 ft³) of build volume and the widest build chamber (X direction) of any Stratasys FDM printer, the F770 provides the capability to build large parts or sizable assortments of smaller parts.

The F770 features industrial-grade technology for consistent, reliable performance and accurate results. Available model materials include two industry standard thermoplastics available in three layer thicknesses (slice heights). Soluble support material enables complex designs and hands-free post-processing. Standard (T14) and optional high speed (T25) heads available. Boost your F770's print speed by 2x+ faster with the T25 head—an easy, plug-in upgrade designed for faster part production, in all seven ASA colors.

GrabCAD Print™ software powers a streamlined workflow by printing directly from CAD files. Insight™ software is also included for more in-depth print file adjustment. The F770 is equipped with MTConnect, a manufacturing communications protocol, for factory-floor connectivity. GrabCAD Print Pro is a paid upgrade to GrabCAD Print and provides additional workflow and productivity enhancements.

System Specifications

Build Envelope (XYZ)	1,000 x 610 x 610 mm / 372,000 cm³ (39.4 x 24 x 24 in. / 22,677 in.³) Maximum length on the diagonal – 1,171 mm (46.1 in.)
Material Delivery	3,277 cm³ box (200 in.³)

Product Specifications

Stratasys Preferred Materials

Material	Layer Thickness			Support Structure	Available Colors
	0.178 mm (0.007 in.)	0.254 mm (0.010 in.)	0.330 mm (0.013 in.)		
ASA	●	●	●[1]	Soluble	⬜ Ivory ⬛ Black 🟥 Red 🟦 Blue ⬜ White 🟨 Yellow ⬜ Light Gray
ABS-M30™	●	●	●	Soluble	⬛ Black

[1] The T25 head is only compatible with 0.330 mm (0.013 in.) layer height.

Other Specifications

System Size and Weight	175 x 124 x 196 cm (69 x 49 x 77 in.) 658 kg (1,450 lbs.)
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[1], 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% 99 cm (39 in.) clearance on each side of printer
Audible Noise/Acoustics	54 dBA
Power Requirements	3 phase, 208V, 30A, 5 wire, 47-63Hz 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 (2,000 lbs.)

[1] GrabCAD Print Pro is available on a subscription basis.

PRODUCT SPEC SHEET
FDM