F770

stratasys

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 13 cubic feet 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.

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. Data security, including U.S. Department of Defense STIG compliance, is provided by Stratasys ProtectAM™ technology.

System Specifications

Build Envelope (XYZ)	1,000 x 610 x 610 mm / 372,000 cm³ (39.4 x 24 x 24 in. / 22,677 in³) Maximum length on the diagonal – 1,171 mm (46.1 in.)
Material Delivery	200 in³ coil box (3277 cm³)

Material Options

Material	Layer Thickness			Support Structure	Available Colors
	0.330 mm (0.013 in.)	0.254 mm (0.010 in.)	0.178 mm (0.007 in.)		
ASA	●	●	●	SR-30™ (soluble)	▪ Ivory
ABS-M30™	●	●	●	SR-30 (soluble)	▪ Black

Other Specifications

System Size and Weight	175 x 124 x 196 cm (69 x 49 x 77 in.) 658 kg (1450 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, Insight, Control Center™, MTConnect enabled
	U.S. government agency STIG compliance via Stratasys ProtectAM technology is powered by Red Hat® Enterprise Linux® software.
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 (2000 lbs.)

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