

# 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 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 cm <sup>3</sup><br>(39.4 x 24 x 24 in. / 22,677 in <sup>3</sup> )<br>Maximum length on the diagonal – 1,171 mm (46.1 in.) |
| Material Delivery    | 200 in <sup>3</sup> coil box (3277 cm <sup>3</sup> )                                                                                                     |

## Material Options

| Material | Layer Thickness         |                         |                         | Support Structure | Available Colors |
|----------|-------------------------|-------------------------|-------------------------|-------------------|------------------|
|          | 0.330 mm<br>(0.013 in.) | 0.254 mm<br>(0.010 in.) | 0.178 mm<br>(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.)<br>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<br>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<br>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<br>IEEE 802.11g-2003<br>IEEE 802.11b-1999                                                                                                                                                                |
| Operating Conditions          | Operating temperature 15 °C to 30 °C (59 °F to 86 °F)<br>Operating Humidity 30-70%<br>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)<br>Crated weight = 907 kg (2000 lbs.)                                                                                                   |



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