PRODUCT SPEC SHEET
FDM

F3300

High-throughput, next-level FDM technology for lower overall cost per part.

The F3300™ embodies new FDM® technology producing significant enhancements in speed, throughput, reliability and quality. Advancements include linear motors and encoders for fast, precise extruder movement, four extruders with a patented automatic tool (extruder) changer for multi-resolution printing and system redundancy, material dryers for optimal material characteristics, and autocalibration to reduce labor and operator input.

Four material bays and large 4,100 cm^3 (250 in^3) spools provide sufficient material capacity for uninterrupted longer build times.

Software includes GrabCAD Print™, GrabCAD Print Pro™, and Insight™ for a simple CAD-to-part workflow and detailed toolpath and print management. MTConnect is included for factory floor connectivity.

System Specifications

Build Tray Dimensions (XYZ)	600 x 600 x 800 mm (23.6 x 23.6 x 31.5 in.)
Material Delivery	4 material spool bays feeding 4 extruders; mix-and-match model or support; independently controlled onboard material dryers included (120 °C max temp)
Material Capacity	16,400 cm^3 total (1,000 in^3) comprised of four 4,100 cm^3 (250 in^3) spools <11 kg fully loaded (<25 lbs)

Material Options

Stratasys Preferred Materials

Material	Layer Thickness: 0.188 mm (0.007 in.)	0.25 mm (0.010 in.)	0.50 mm (0.020 in.)	Support Structure	Available Colors
ABS-ESD7		●		SR-35™ (soluble)	Black
Antero® 800NA CG		●		SUP8000B® (breakaway)	Natural
ASA	●	●	●	SR-35 (soluble)	Natural Red White Black Light Gray
FDM® Nylon 12CF*		●	●	SR-110™ (soluble)	Black
PC		●	●	SR-110 (soluble)	White
ULTEM™ 1010 resin		●		SUP9000B™ (breakaway)	Natural
ULTEM™ 9085 resin	●	●	●	SUP8500B™ (breakaway)	Natural Black
ULTEM™ 9085 CG resin		●		SUP8500B (breakaway)	Natural

Stratasys Validated Materials

Material	Layer Thickness: 0.188 mm (0.007 in.)	0.25 mm (0.010 in.)	0.50 mm (0.020 in.)	Support Structure	Available Colors
ABS Draft		●		SR-35 (soluble)	Gray

* Requires hardened hot end.

Other Specifications

System Size and Weight (uncrated) * see Installation Requirements below for crated specifications	Width: 203.2 cm (80 in.) Depth: 162.6 cm (64 in.) Height (with light tower): 236.2 cm (93 in.) Height (without light tower): 221.0 cm (87 in.) Weight: 1,360 kg (3,000 lbs)
Achievable Accuracy	**XY part accuracy:** ± 0.089 mm or ± 0.0015 mm/mm (± 0.0015 in. or ± 0.0015 in./in.) **Z part accuracy:** ± 0.200 mm or ± 0.002 mm/mm (± 0.008 in. or ± 0.002 in./in.), whichever is greater, plus one layer height. Accuracy is geometry and material dependent. Achievable accuracy specification derived from statistical data at 95% dimensional yield.
Software	GrabCAD Print, GrabCAD Print Pro[1], Insight, MTConnect enabled
Network Connectivity	10/100 Base T, Ethernet Protocol, RJ45 connector, IPv6
Operating Environment	System operating temperature shall be in the range of 15 °C to 30 °C (60 °F to 86 °F), with relative humidity range of 20% to 80% non-condensing.

Extruder Hot End Sizes
(tip size in mm, H = hardened)

Model Material	Support Material	Layer Thickness
N350 / N350H	N410 / N410SA	0.188 mm
N500 / N500H / N500SA / N500SAC	N410 / N410SA	0.250 mm
N750 / N750H	N750	0.50 mm

Noise Emission (Acoustic)	<65 dBA when idle and in operation
Onboard Cameras	Two (2) cameras – front-mounted showing extruder level and rear-mounted showing full chamber view
Regulatory Compliance	CE (Machinery Directive & EMC) 2006/42/EC, cTUVus, FCC Part B
Power Requirements	208V, 3 PH, 30A dedicated circuit, 50/60 Hz, 5-wire (L-L-L-N-G)
Facility Requirements	Compressed Air: 90-110 psi with 14 CFM minimum flow
Installation Requirements	Forklift required for uncrating, installation and movement. Crated Dimenions: Width: 243.8 cm (96 in.) Depth: 203.2 cm (64 in.) Height: 254.5 cm (100.2 in.) Crated Weight: 1,724 kg (3,800 lbs)

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

HOME OF 3D PRINTING

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PRODUCT SPEC SHEET
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