

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 4100 cc (250 cu.in.) 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 cc total (1000 ci) comprised of four 4100 cc spools <11 kg fully loaded (<25 lbs)

Material Options					
Material	Layer Thickness			Support Structure	Available Colors
	0.188 mm (0.007 in.)	0.250 mm (0.010 in.)	0.500 mm (0.020 in.)		
ASA	●	●	●	SR-35™ (soluble)	Ivory Red White Black Light Gray
PC		●	●	SR-110™ (soluble)	White
FDM® Nylon 12CF		●	●	SR-110 (soluble)	Black
ULTEM™ 9085 resin		●	●	SUP8500B™ (breakaway)	Natural Black

* Hardened hot ends required for use with FDM Nylon 12CF.

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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): 218.4 cm (86 in.) Weight: 1360 kg (3000 lbs)		
Achievable Accuracy	+/- .067 mm or +/- .0015 mm per mm, whichever is greater (+/- .0026 in. or +/- .0015 in. per in., whichever is greater). Z part accuracy includes an additional tolerance of -0.000/+ slice height.		
Software	GrabCAD Print™, GrabCAD Print Pro™, 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)	<u>Model Material</u>	<u>Support Material</u>	<u>Layer Thickness</u>
	N350/N350H	N410	0.188 mm
	N500/N500H	N410	0.250 mm
	N750/N750H	N750	0.375 mm/0.500 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 13 CFM minimum flow		
Installation Requirements	Forklift required for uncrating, installation and movement. Crated Dimensions: Width: 243.8 cm (96 in.) Depth: 203.2 cm (64 in.) Height: 254.5 cm (100.2 in.) Crated Weight: 1724 kg (3800 lbs)		

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