

# 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 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

<b>Build Tray Dimensions (XYZ)</b>	600 x 600 x 800 mm (23.6 x 23.6 x 31.5 in.)
<b>Material Delivery</b>	4 material spool bays feeding 4 extruders; mix-and-match model or support; independently controlled onboard material dryers included (120 °C max temp)
<b>Material Capacity</b>	16,400 cc total (1,000 ci) comprised of four 4,100 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.)		
<b>ASA</b>	●	●	●	SR-35™ (soluble)	<input type="checkbox"/> Ivory <input checked="" type="checkbox"/> Red <input type="checkbox"/> White <input checked="" type="checkbox"/> Black <input type="checkbox"/> Light Gray
<b>PC</b>		●	● <sup>1</sup>	SR-110™ (soluble)	<input type="checkbox"/> White
<b>FDM® Nylon 12CF*</b>		●	●	SR-110™ (soluble)	<input checked="" type="checkbox"/> Black
<b>ULTEM™ 1010 resin</b>		●		SUP9000B™ (breakaway)	<input type="checkbox"/> Natural
<b>ULTEM™ 9085 resin</b>	●	●	●	SUP8500B™ (breakaway)	<input type="checkbox"/> Natural <input checked="" type="checkbox"/> Black
<b>ULTEM™ 9085 CG resin</b>		●		SUP8500B™ (breakaway)	<input type="checkbox"/> Natural

<sup>1</sup> Coming soon

\* 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

+/- .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)

Model Material	Support Material	Layer Thickness
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 14 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 (3,800 lbs)



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PRODUCT SPEC SHEET  
FDM



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