



Real Production

Completely re-engineered for size, throughput, precision and repeatability.

The FDM 900mc™ was specifically designed for direct digital manufacturing. Not only has the build envelope dramatically increased in size, there are significant differences in its mechanical, electro-mechanical and electrical systems. Specifically, the head gantry is driven by ball screw technology resulting in improvements in predictability and repeatability. Additionally, the control software has been modified to leverage the system's hardware advancements. These features deliver greater throughput, accuracy, repeatability, and reliability.

Like all Fused Deposition Modeling® systems, the FDM 900mc uses stable thermoplastics that continue to outperform nearly all competing technologies in accuracy and repeatability. Proven FDM technology manufactures Real Parts™ in production-grade thermoplastics.

	FDM 900mc	Software		
Build Envelope (XYZ)	36 x 24 x 36 inch (914.4 x 609.6 x 914.4 mm) Platen supports two (2) build zones for either a small or large build sheet	FDM 900mc uses two key software tools called Insight™ and FDM Control Center.™ Insight software imports STL files, automatically slices and generates necessary support structures and material extrusion paths. Insight provides greater flexibility by allowing manual manipulation of model and support structures and tool paths.		
Material Delivery	Two (2) Model material canisters 92 in ³ (1510 cc) Two (2) Support material canisters 92 in ³ (1510 cc) Auto change over for Model and Support canisters	FDM Control Center™ enhances the user interface with Status, Pack and Administration functions. Users can assemble CMBs, create jobs, monitor status, and adjust part nesting using the part footprint (not just the bounding box). Users can also view multiple FDM machine queues in a single window.		
Modeling Material Layer Thickness		ABS-M30	PC	PPSF (PPSU)
0.013 inch (0.330 mm)		x	x	x
0.010 inch (0.254 mm)		x	x	x
0.007 inch (0.178 mm)		x	x	
Support Technology		Soluble Release	BASS	BASS

Network Communication

10/100 base T connection. Ethernet protocol

Operator Attendance

Limited attendance for job start and stop required

Operating Environment

Maximum room temperature of 85°F (29.4°C).

Maximum room humidity of 85% RH

Power Requirements

230 VAC (three phase) 50/60Hz, Voltage fluctuation +/- 10%

Current 40A

System Size (XYZ)

109.1 x 66.3 x 79.8 inches

(2772 x 1683 x 2027 mm)

System Size with manufacturing light tower (XYZ)

109.1 x 66.3 x 89.8 inches

(2772 x 1683 x 2281 mm)

Regulatory Compliance

CE

Additional Requirements

Compressed Air Required

For more information about Stratasys systems and materials, contact your representative at +1 888.480.3548 or visit www.stratasys.com

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