



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	Other Product Details		
System Size	109.1 x 66.3 x 79.8 inches (2772 x 1683 x 2027 mm)	Achievable Accuracy Parts are produced within an accuracy of +/- .005 inch or +/- .0015 inch per inch whichever is greater (+/- .127 mm or +/- .0015 mm per mm). <i>Note: 99% confidence. Accuracy is geometry dependent.</i>		
	System Size with manufacturing light tower (XYZ) 109.1 x 66.3 x 89.8 inches (2772 x 1683 x 2281 mm)			
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	Network Communication 10/100 base T connection. Ethernet protocol		
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	Operator Attendance Limited attendance for job start and stop required		
Material Options		Operating Environment Maximum room temperature of 85°F (29.4°C). Maximum room humidity of 85% RH		
Layer Thickness		Power Requirements 230 VAC (three phase) 50/60Hz, Voltage fluctuation +/- Current 40A		
0.013 inch (0.330 mm)	ABS-M30	PC	PPSF (PPSU)	Regulatory Compliance CE
0.010 inch (0.254 mm)	X	X	X	
0.007 inch (0.178 mm)	X	X		
Support Structure	Soluble Supports	BASS	BASS	Additional Requirements Compressed Air Required

Software*

Insight™

Insight software prepares 3D digital part files (output as an STL) to be manufactured on an FDM system by automatically slicing and generating support structures and material extrusion paths. If necessary, users can override Insight's defaults to manually edit parameters that control the look, strength and precision of parts as well as the time, throughput, expense and efficiency of the FDM process.

FDM Control Center™

FDM Control Center software communicates between the user workstation(s) and the FDM system(s), managing jobs and monitoring the production status of FDM systems. This software application provides the control to maximize efficiency, throughput and utilization while minimizing response time. Control Center is included with Insight software.

FDM TEAM™

FDM TEAM software is designed for the management and control of multi-user and/or multi-system FDM operations. A client/server application, FDM TEAM enables planning, scheduling, monitoring and reporting when managing a multiple FDM system enterprise. FDM TEAM is sold as a stand alone software package.

*Insight and FDM Control Center are included with every FDM system. Visit www.stratasys.com/software for more information.

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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