

# Multijet Plastic Printers

Functional precision plastic parts with **Projet® MJP 3D** printers



**Projet MJP 3600**



**Projet MJP 3600 Max**

<b>Printing Modes</b>	HD - High Definition UHD - Ultra High Definition XHD - Xtreme High Definition	HD - High Definition UHD - Ultra High Definition XHD - Xtreme High Definition
<b>Net Build Volume (xyz)*</b>	HD Mode 11.75 x 7.3 x 8 in (298 x 185 x 203 mm) UHD Mode 8 x 7.3 x 8 in (203 x 185 x 203 mm) XHD Mode 8 x 7.3 x 8 in (203 x 185 x 203 mm)	HD Mode 11.75 x 7.3 x 8 in (298 x 185 x 203 mm) UHD Mode 11.2 x 7.3 x 8 in (284 x 185 x 203 mm) XHD Mode 11.2 x 7.3 x 8 in (284 x 185 x 203 mm)
<b>Resolution (xyz)</b>	HD Mode 375 x 450 x 790 DPI; 32 µ layers UHD Mode 750 x 750 x 890 DPI; 29 µ layers XHD Mode 750 x 750 x 1600 DPI; 16 µ layers	HD Mode 375 x 450 x 790 DPI; 32 µ layers UHD Mode 750 x 750 x 890 DPI; 29 µ layers XHD Mode 750 x 750 x 1600 DPI; 16 µ layers
<b>Accuracy (typical)</b>	±0.001-0.002 inch per inch (0.025-0.05 mm per 25.4 mm) of part dimension. Accuracy may vary depending on build parameters, part geometry and size, part orientation, and post-processing.	
<b>Build Materials</b>	Visijet M3-X – Rigid White Visijet M3 Crystal – Rigid Clear Visijet M3 Black – Rigid Black Visijet M3 Proplast – Rigid Natural Visijet M3 Navy – Rigid Blue Visijet M3 Techplast – Rigid Gray Visijet M3 Procast – Castable	Visijet M3-X – Rigid White Visijet M3 Crystal – Rigid Clear Visijet M3 Black – Rigid Black Visijet M3 Proplast – Rigid Natural Visijet M3 Navy – Rigid Blue Visijet M3 Techplast – Rigid Gray Visijet M3 Procast – Castable
<b>Support Material</b>	Visijet S300	Visijet S300
<b>Material Packaging</b>	Build and support materials in clean 4.41 lbs (2 kg) bottles (printer holds up to 2 of each with auto-switching)	
<b>Electrical</b>	100-127 VAC, 50/60 Hz, single-phase, 15A 200-240** VAC, 50 Hz, single-phase, 10A	
<b>Dimensions (WxDxH)</b>	3D Printer Crated 32.5 x 56.3 x 68.5 in (826 x 1430 x 1740 mm) 3D Printer Uncrated 29.5 x 47 x 59.5 in (749 x 1194 x 1511 mm)	3D Printer Crated 32.5 x 56.3 x 68.5 in (826 x 1430 x 1740 mm) 3D Printer Uncrated 29.5 x 47 x 59.5 in (749 x 1194 x 1511 mm)
<b>Weight</b>	3D Printer Crated 955 lbs (433 kg) 3D Printer Uncrated 659 lb (299 kg)	3D Printer Crated 955 lbs (433 kg) 3D Printer Uncrated 659 lb (299 kg)
<b>3D Sprint™ Software</b>	Easy build job set-up, submission and job queue management; Automatic part placement and build optimization tools; Part stacking and nesting capability; Extensive part editing tools; Automatic support generation; Job statistics reporting tools	
<b>E-mail Notice Capability</b>	Yes	Yes
<b>Internal Hard Drive Capacity</b>	500 Gb minimum	500 Gb minimum
<b>Connectivity</b>	Network ready with 10/100 Ethernet interface Front panel USB Port	
<b>Client Hardware Recommendation</b>	CPU: Multiple core processor. Hyper-threading and clock speeds above 3GHz can be beneficial but should be paired with a good balance of cores. RAM: 8 GB of more. HARD DISK: SSD. Multiple core processor. OTHER: Google Chrome or Internet Explorer	
<b>Client Operating System</b>	Windows® 7, 8 and 8.1 (service pack)	
<b>Input Data File Formats Supported</b>	STL, CTL, OBJ, PLY, ZPR, ZBD, AMF, WRL, 3DS, FBX, IGES, IGS, STEP, STP, MJPDDD	
<b>Post-Processing</b>	Projet Finisher for easy removal of eco-friendly wax supports (optional)	
<b>Operating Temperature Range</b>	64-82 °F (18-28 °C)	64-82 °F (18-28 °C)
<b>Operating Humidity</b>	30-70 % relative humidity	30-70 % relative humidity
<b>Noise</b>	< 65 dBa estimated (at medium fan setting)	
<b>5-Year Printhead Warranty</b>	Standard	Standard
<b>Certifications</b>	CE	CE

\* Maximum part size is dependent on geometry, among other factors.

\*\* Requires small external transformer supplied by 3D Systems in the provided country kit.

# Visijet® M3 Advanced Plastics

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Properties	Condition	Visijet M3-X	Visijet M3 Black	Visijet M3 Crystal	Visijet M3 Proplast	Visijet M3 Navy	Visijet M3 Techplast	Visijet M3 Procast	Visijet S300	
Composition			UV Curable Plastic							Wax Support Material
Color		White	Black	Natural	Natural	Blue	Gray	Dark Blue	White	
Bottle Quantity		2 kg	2 kg	2 kg	2 kg	2 kg	2 kg	2 kg	2 kg	
Density @ 80 °C (liquid)		1.04 g/cm <sup>3</sup>	1.02 g/cm <sup>3</sup>	1.02 g/cm <sup>3</sup>	1.02 g/cm <sup>3</sup>	1.02 g/cm <sup>3</sup>	1.02 g/cm <sup>3</sup>	1.02 g/cm <sup>3</sup>	N/A	
Tensile Strength	ASTM D638	49 MPa	35.2 MPa	42.4 MPa	26.2 MPa	20.5 MPa	22.1 MPa	32 MPa	N/A	
Tensile Modulus	ASTM D638	2168 MPa	1594 MPa	1463 MPa	1108 MPa	735 MPa	866 MPa	1724 MPa	N/A	
Elongation at Break	ASTM D638	8.3 %	19.7 %	6.83 %	8.97 %	8 %	6.1 %	12.3 %	N/A	
Flexural Strength	ASTM D790	65 MPa	44.5 MPa	49 MPa	26.6 MPa	28.1 MPa	28.1 MPa	45 MPa	N/A	
Heat Distortion Temperature	ASTM D648 @ 0.45 MPa	88 °C	57 °C	56 °C	46 °C	46 °C	46 °C	N/A	N/A	
Ash Content		N/A	N/A	N/A	0.01 %	0.01 %	0.01 %	0.01 %	N/A	
Melting Point		N/A	N/A	N/A	N/A	N/A	N/A	N/A	60 °C	
Softening Point		N/A	N/A	N/A	N/A	N/A	N/A	N/A	40 °C	
USP Class VI Certified*		No	No	Yes	No	No	No	No	N/A	
Description		ABS-like Plastic	High strength and flexibility plastic	Tough Plastic, Translucent	Plastic, Natural	Plastic, Blue	Plastic, Gray	Castable Plastic	Non-toxic wax material for hands-free melt-away supports	

\* DISCLAIMER: Material is capable of meeting the requirements of USP Class VI testing. It is the responsibility of each customer to determine that its use of any Visijet material is safe, lawful and technically suitable to the customer's intended applications. The values presented here are for reference only and may vary. Customers should conduct their own testing to ensure suitability for their intended application.

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