ProJet® 5000

Professional 3D Printer

3DSYSTEMS®

Large build size for your high-resolution plastic parts.

Featuring the largest build size in 3D Systems' line of high-definition MultiJet 3D printers, the ProJet® 5000 professional printer is designed to deliver maximum productivity and absolute design freedom in the factory or office. A unique combination of size, precision and ease-of-use makes the ProJet 5000 ideal for consistent, high-resolution parts of all sizes. This high-throughput workhorse can even print two times faster using the high-speed mode.

Choose from 3D Systems' line of VisiJet® M5 plastic materials, which includes high-elongation, durable plastic; high-strength PP-like black plastic; or stiff, brilliant white plastic with high-temperature resistance. Whatever your material choice, the ProJet 5000 has the unique ability to produce large or small injection molded-like plastic parts with superior feature quality and detail.

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MANUFACTURING*THE* FUTURE

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Net Build Volume (xyz)	21 x 15 x 11.8 in (533 x 381 x 300 mm)

Resolution (xyz)
   HS Mode (High Speed)
   HD Mode (High Definition)
   UHD Mode (Ultra High Definition)
	
	375 x 375 x 395 DPI; 64µ (0.0025 in) layers
	375 x 375 x 790 DPI; 32µ (0.0012 in) layers
	750 x 750 x 890 DPI; 32µ (0.0011 in) layers

Accuracy	0.001-0.002 inch (0.025-0.05 mm) per inch of part dimension. Accuracy may vary depending on build parameters, part geometry and size, part orientation, and post-processing.
E-mail notice capability	Yes
Tablet/Smartphone Connectivity	Yes
5 year printhead warranty	Yes
Material Packaging	In clean 2.0 kg cartridges. Printer can hold up to eight cartridges with additional material bays (optional)
Electrical	115-240 VAC, 50/60 Hz, single-phase, 1200 W

Dimensions (WxDxH)
   3D Printer Crated
   3D Printer Uncrated
	
	72 x 45.5 x 78 in (1828 x 1155 x 1981 mm)
	60.3 x 35.7 x 57.1 in (1531 x 908 x 1450 mm)

Weight
   3D Printer Crated
   3D Printer Uncrated
	
	1555 lbs (708 kg)*
	1180 lbs (538 kg)*

ProJet Accelerator Software	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.
Network Compatibility	Network ready with 10/100 Ethernet interface
Client Hardware Recommendation	1.8 GHz with 1GB RAM (OpenGL support 64 MB video RAM) or higher
Client Operating System	Windows® XP Professional, Windows® Vista or Windows® 7
Input Data File Formats Supported	STL, SLC
Operating Temperature Range	18 - 28 °C (64-82 °F)
Noise	< 65 dBa estimated (at medium fan setting)
Certification	CE

* Weight based on standard configuration with 4 MDMs (material delivery modules). Add 60 lb (28 kg) for each additional pair of MDMs.

VisiJet Build Materials	Condition	VisiJet M5-X	VisiJet M5-Black	VisiJet M5-MX
Color		White	Black	Clear Amber
Density @ 80 °C (liquid)	ASTM D 4164	1.02 g/cm^3	1.02 g/cm^3	1.02 g/cm^3
Tensile Strength	ASTM D 638	39.4 MPa	32.8 MPa	31 MPa
Tensile Modulus	ASTM D 638	1925 MPa	1555 MPa	1267 MPa
Elongation at Break	ASTM D 638	7.8 %	15.4 %	20 %
Flexural Strength	ASTM D 790	51.4 MPa	43.8 MPa	39 MPa
Heat Distortion Temp	ASTM D 648 @ 66 PSI	65 °C	54 °C	39 °C
Description		High stiffness, hybrid ABS/ PP like	High strength & flexibility, PP like	High durability and strength

High throughput and micro-fine plastic parts

- **Upgrade productivity** – With the largest build size in its class, the ProJet 5000 prints bigger parts and more parts in high definition with the most affordable cost/build size ratio.
- **Increase part quality** – Produce parts with high precision, as well as remarkable micro-fine details, exceptional sidewall quality, unmatched surface smoothness, and sharp edges and corners.
- **Choose the material that fits your requirements** – The material selection includes stiff/white and tough/ black injection moulded-like plastic, and highly durable transparent plastic.
- **Maximize productivity** – With its high-throughput print head and high-speed print mode, the ProJet 5000 creates parts up to two times faster.
- **Optimize your time** – Remote monitoring and control, unattended operation, and fast and easy hands-free post-processing make the ProJet 5000 a time-saving addition to your workflow.

Features:

- Largest build size in class: 533 x 381 x 300 mm (21 x 15 x 11.8 in)
- Exceptional precision, sidewall quality and surface smoothness
- High-speed mode and high-throughput print head
- Tablet and smartphone connectivity
- 5-year print head warranty

MultiJet Printing (MJP)

MultiJet 3D Printers (MJP) print thin layers of UV-curable liquid plastic onto a flat platform, using wax to create supports that brace the part during production. UV lamps cure each layer, and the build platform lowers for the next layer. This process continues layer by layer until the part is complete.

VisiJet S300 Support Material

This non-toxic wax support material easily melts away without the need for chemicals or high-pressure water.