



MULTIJET PLASTIC PRINTERS

Functional precision plastic parts with ProJet® MJP 3D printers



Make Your Ideas Matter

3D Systems' MultiJet Printing (MJP) process creates precise plastic parts that are ideal for functional prototyping, rapid tooling, and many other applications. Print rigid or flexible parts with ABS-like plastics and true elastomers for real functionality and performance. You can even create composite materials with tailored mechanical properties and print with multiple materials for complex parts with special features such as overmolding.

MJP offers exceptional resolution with layer thicknesses as low as 13 microns. Selectable print modes let you choose the best combination of resolution and print speed, so it's easy to find a combination that meets your needs. Parts have smooth finish and can achieve accuracies approaching SLA precision for many applications.



Shoe sole printed in a combination of flexible black elastomer and rigid white plastic

ACCELERATE TIME-TO-MARKET

MJP users around the world are bringing products to market faster. Validate designs, test performance and manufacturability, and align stakeholders quickly, with prototypes that precisely match design intent.

ENHANCE QUALITY

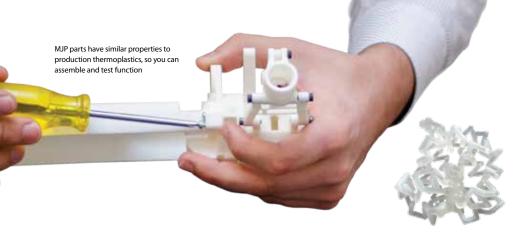
Conduct test and review cycles faster, so you can identify and fix design flaws early. Know that your products have been thoroughly tested before you commit to the cost of tooling.

ITERATE FASTER, INNOVATE BETTER

Empower your team to test more design concepts to yield better products. Creativity flourishes when it's this easy to try out and show new ideas.

REDUCE COSTS

Accurate prototypes improve communication with technicians and suppliers, reducing expensive rework. MJP is also used to make rapid tooling at a lower cost than traditional tools, jigs and fixtures.



Print objects that would be impossible to make any other way

Benefits of MultiJet Printing

The ProJet MJP 3600 series and 5500X employ MultiJet Printing technology to produce the highest fidelity, truest-to-CAD parts of any jetting 3D printing process.

RESULTS YOU CAN TRUST

Print accurate parts that maintain integrity over time, so you can make decisions with confidence.

EASY POST-PROCESSING

Finishing MJP parts is as easy as melting wax. No hand scraping, high-pressure water jets, caustic chemical baths, or special facilities requirements.

MICRO-FINE DETAIL RESOLUTION

The high resolution of MultiJet Printing means even tiny features come out right—and there's no risk of breaking small features during post-processing.

SHARP EDGES AND CORNERS

Go ahead and compare—MJP parts have the best defined geometry of any jetting 3D printer.

GREATER GEOMETRIC FREEDOM

With some printers, the inability to remove supports from tight spaces limits design freedom. MJP's wax supports just melt away from even the tightest spaces.

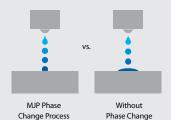
INDUSTRIAL GRADE PRINT HEADS

Every MJP printer comes with an industrial-grade print head designed for long life and high reliability.

PHASE CHANGE PROCESS

3D Systems MJP employs proprietary thermally-controlled materials for superior print definition. As each heated droplet of material is jetted, it immediately cools and holds its shape as it lands on the part or support surface.

- Printed material does not "ooze" over edges or pool in corners
- Edges are sharp, holes are round, corners are clean
- Ensures excellent sidewall quality



ProJet® MJP 3600 Series

High throughput for more productivity

The ProJet MJP 3600 and 3600 Max provide a high capacity build volume and exceptionally fast print speeds, so you can get more parts printed faster.

HIGH THROUGHPUT

With up to twice the print speed, you can print more parts and get them in your hands faster.

HIGH DEFINITION PARTS

When getting the finest details right matters, no other jetting printer beats the MJP 3600 series.

CLASS VI CAPABLE FOR HEALTHCARE APPLICATIONS

With biocompatible materials that have passed USP Class VI testing, you can print parts for medical devices and more.







MJP APPLICATIONS

Mechanical functional testing

Validate that designs perform correctly in the real world. Find and fix problems early, before committing to tooling.

Concept communication

Bring your ideas to life with realistic models for colleagues, customers and others.

Form and fit assembly testing

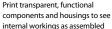
Check interactions and clearances between components to ensure proper assembly.

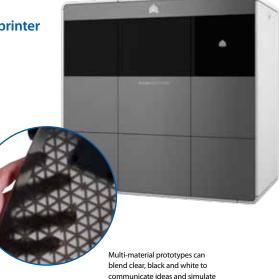
ProJet® MJP 5500X



Your products are made of multiple materials—and now your prototypes and concept models can be printed in multiple materials, giving your 3D prints more realistic mechanical properties and differentiated colors.







DOZENS OF MATERIAL CHOICES

This ingenuous printer and material system simultaneously prints and blends together flexible and rigid photopolymers, layer-by-layer at the pixel level, to achieve superior mechanical properties.

EXTENSIVE BUILD ENVELOPE

With a whopping 60% larger build volume than the closest competitor, you can print larger parts and more parts in a single build.

EXCEPTIONALLY HIGH THROUGHPUT

finished products

The MJP 5500X is fast when printing composite materials, and even faster when printing single materials at a time.

EXCEPTIONAL ELASTOMERIC PERFORMANCE

VisiJet composite materials are engineered for performance. The MJP 5500X can print elastomeric parts with amazing 650% elongation and complete elastic recovery.

Rapid tooling

Print injection molds, hydroforming dies and other short-run tooling for concept and bridge production.

Ergonomic studies

There's no replacement for holding a part in hand and exploring it from all angles. MJP parts are smooth, beautiful and accurate for ergonomic testing.

Jigs & fixtures

3D print jigs and fixtures quickly and free up CNC equipment for production.

	110500	110300	110500
	MJP 3600	MJP 3600 Max	MJP 5500X
Max Build Envelope Capacity (W x D x H)	HD Mode: 11.75 x 7.3 x 8 in (298 x 185 x 203 mm) UHD & XHD Modes: 8 x 7 x 6 in (203 x 178 x 152 mm)	11.75 x 7.3 x 8 in (298 x 185 x 203 mm)	20.4 x 15 x 11.6 in (518 x 381 x 295 mm)
Resolution (xyz)	<u>HD Mode</u> : 375 x 375 x 790 DPI (xyz); 32 μ layers <u>UHD Mode</u> : 750 x 750 x 890 DPI (xyz); 29 μ layers <u>XHD Mode</u> : 750 x 750 x 1600 DPI (xyz); 16 μ layers		HD Mode: 375 x 375 x 1000 DPI; 25 μ layer UHD & UHDS Modes: 600 x 600 x 1600 DPI; 16 μ layer XHD & XHDS Modes: 750 x 750 x 2000 DPI; 13 μ layer
Typical Accuracy	±0.001-0.002 in per in (±0.025-0.05 mm per 25.4 mm) of part dimension	±0.001-0.002 in per in (±0.025-0.05 mm per 25.4 mm) of part dimension	±0.001-0.002 in per in (±0.025-0.05 mm per 25.4 mm) of part dimension
Build Material	VisiJet M3-X – Rigid White	VisiJet M3-X – Rigid White	Base materials:
	VisiJet M3 Crystal – Rigid Clear	VisiJet M3 Crystal – Rigid Clear	VisiJet CR-WT – Rigid White
	VisiJet M3 Black – Rigid Black	VisiJet M3 Black – Rigid Black	VisiJet CR-CL – Rigid Clear
	VisiJet M3 Proplast – Rigid Natural	VisiJet M3 Proplast – Rigid Natural	VisiJet CE-BK – Elastomeric Black
	VisiJet M3 Navy – Rigid Blue	VisiJet M3 Navy – Rigid Blue	VisiJet CE-NT – Elastomeric Natural
	VisiJet M3 Techplast – Rigid Gray	VisiJet M3 Techplast – Rigid Gray	Plus more than 100 composite combinations
	VisiJet M3 Procast – Castable	VisiJet M3 Procast – Castable	
/isiJet Support Material	Eco friendly, easily removable wax		
Post-processing			
ncluded Software	ProJet Accelerator 3DSPRINT 3DSPRINT 3DSPRINT		
Standard Warranty	1 year parts & labor 5 year printhead	1 year parts & labor 5 year printhead	1 year parts & labor 5 year printhead

ProJet

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Accuracy may vary depending on build parameters, part geometry and size, part orientation, and post-processing. The performance characteristics of these products may vary according to product application, operating conditions, material combined with, or with end use. 3D Systems makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use.

MANUFACTURINGTHE FUTURE







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