



# MULTIJET PLASTIC PRINTERS

Functional precision plastic and elastomeric 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**

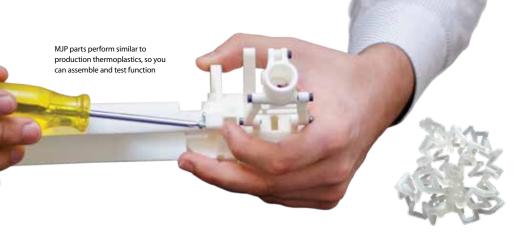
Conduct test and review cycles faster, so you can identify and fix design flaws early. Know that your products have been thoroughly tested before you commit to the cost of tooling.

# 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 2500 series, 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**

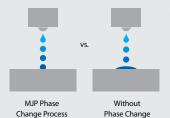
Every MJP printer comes with an industrial-grade print head designed for long life and high reliability.



# 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 2500 Series

# Print precision parts in your office

The newest members of the ProJet family, the MJP 2500 and 2500 Plus are the most affordable MJP printers, yet still offer higher fidelity and more accurate prints than other printers costing up to ten times more.

# PROFESSIONAL PRODUCTIVITY

Step up from desktop 3D printers to 24/7 usability and higher production capacity.

# AFFORDABLE PRICE

MJP quality has never been so accessible. You no longer have to compromise on part fidelity to get an affordable 3D printer for your office.

# ADVANCED PLASTIC AND ELASTOMERIC MATERIALS

Engineered for performance, VisiJet® M2 materials deliver durable white, black or clear plastic parts, and elastomeric parts with outstanding elongation and full elastic recovery.



Accurate models let you check fit on complex shapes

TecSol3D

# PROFESSIONAL OUALITY

Make sure your prototypes look, feel and perform like finished products. Get professional quality in your own office.

# To the second se

Functional filter prototype printed in clear, white and black rigid plastics

# ProJet® MJP 3600 Series

# High throughput for more productivity

The ProJet MJP 3600 and 3600 Max provide a larger 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.

# HIGH PERFORMANCE PLASTICS, VERSATILE APPLICATIONS

VisiJet M3 materials line delivers toughness, durability, stability, high temperature resistance, watertightness, biocompatibility and castability.



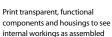


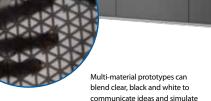


Your products are made of multiple materials—and now your prototypes and concept models can be printed in multiple materials, giving your 3D prints more realistic mechanical properties and differentiated colors.









# DOZENS OF MATERIAL CHOICES

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

## **EXTENSIVE BUILD ENVELOPE**

With an over 50% larger build volume than the closest competitor, you can print larger parts and more parts in a single build.

# **EXCEPTIONALLY HIGH THROUGHPUT**

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

# **EXCEPTIONAL ELASTOMERIC PERFORMANCE**

finished products

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

# 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.

# Rapid tooling

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

# Form and fit assembly testing

Check interactions and clearances between components to ensure proper assembly.

# **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.

### Jias & fixtures

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

	MJP 2500	MJP 2500 Plus	MJP 3600	MJP 3600 Max	MJP 5500X
Max Build Envelope Capacity (W x D x H)	11.6 x 8.3 x 5.6 in (295 x 211 x 142 mm)		HD Mode: 11.75 x 7.2 x 8 in (298 x 183 x 203 mm) UHD & XHD Modes: 8 x 7 x 8 in (203 x 178 x 203 mm)	All Modes: 11.75 x 7.2 x 8 in (298 x 183 x 203 mm)	All Modes: 20.4 x 15 x 11.8 in (518 x 381 x 300 mm)
Resolution (xyz)	800 x 900 x 790 DPI, 32 μ layers		<u>HD Mode</u> : 375 x 450 x 790 DPI; 32 μ layers <u>UHD Mode</u> : 750 x 750 x 890 DPI; 29 μ layers <u>XHD Mode</u> :		HD Mode: 375 x 375 x 1000 DPI; 25 μ layers UHD & UHDS Modes: 600 x 600 x 1600 DPI; 16 μ layers XHD & XHDS Modes:
			750 x 750 x 1600	DPI; 16 µ layers	750 x 750 x 2000 DPI; 13 μ layers
Typical Accuracy	$\pm 0.004$ in per in ( $\pm 0.1016$ mm per 25.4 mm) of part dimension		$\pm 0.001$ -0.002 in per in ( $\pm 0.025$ -0.05 m) of part dimension		m per 25.4 mm)
Build Materials	VisiJet M2 RWT – Rigid White VisiJet M2 RBK – Rigid Black	VisiJet M2 RWT – Rigid White VisiJet M2 RCL – Rigid Clear VisiJet M2 RBK – Rigid Black VisiJet M2 EBK – Elastomeric Black VisiJet M2 ENT- Elastomeric Natural	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	Base materials: VisiJet CR-WT – Rigid White VisiJet CR-CL – Rigid Clear VisiJet CE-BK – Elastomeric Black VisiJet CE-NT – Elastomeric Natural Plus more than 100 composite combinations
VisiJet Support Material	Eco-friendly, easily removable wax —				
Post-processing	——— MJP EasyClean System ———		ProJet Finisher		ProJet Finisher XL
Included Software	3DSPRINT		ProJet Accelerator		3DSPRINT
Standard Warranty	1 year parts & labor	1 year parts & labor	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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# MJP EasyClean System

**ProJet** 

ProJet

There's no manual support removal needed with MultiJet Printers. The MJP EasyClean System is a new, incredibly simple way to remove supports from MJP parts in under 30 minutes. Two warmer units use steam and soy-based oil to melt wax supports away, without manual labor and without damaging your printed parts.

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.

# MANUFACTURING THE FUTURE

Tecnologías y Soluciones Tridimensionales S.A. de C.V.

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