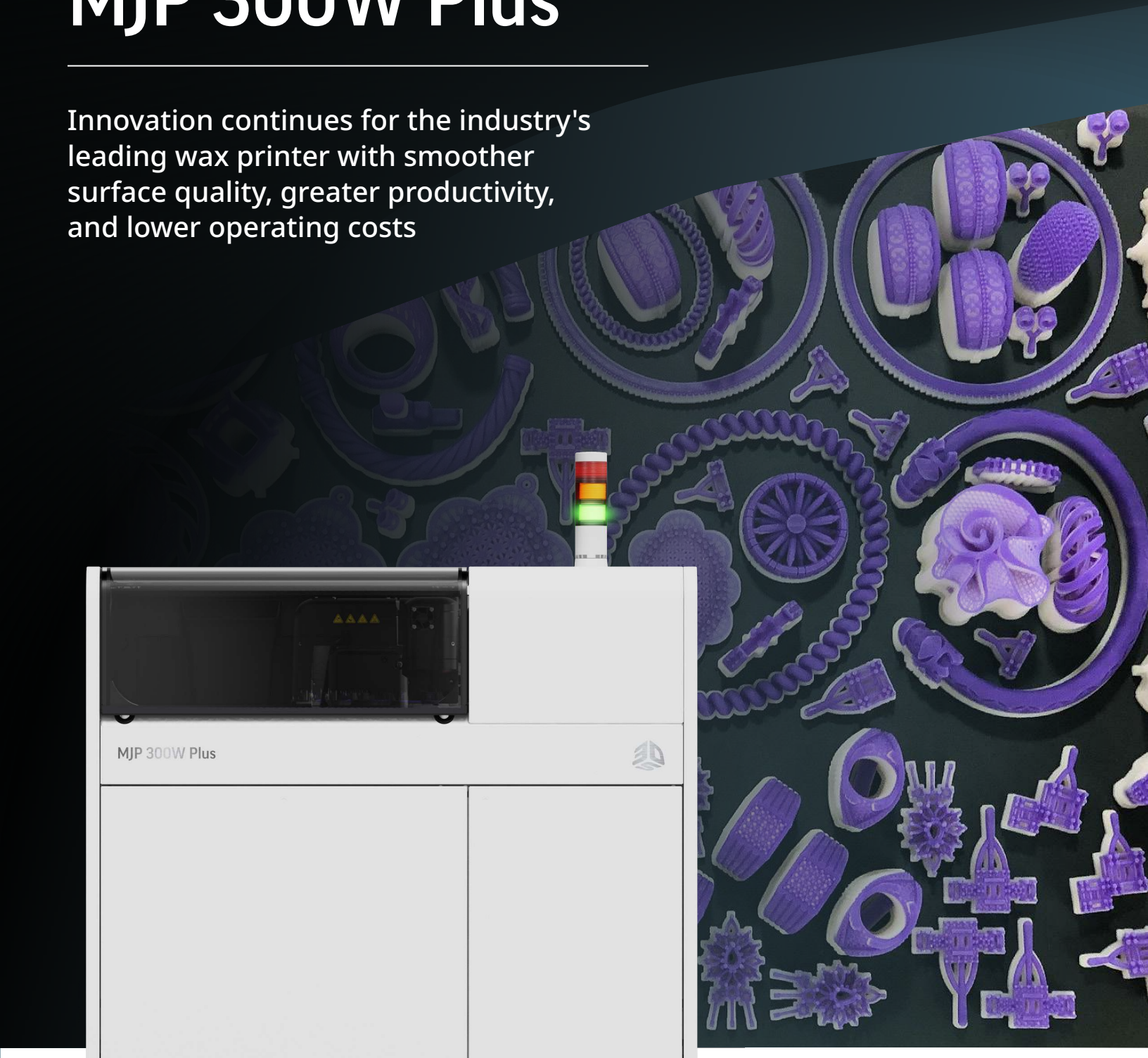
3D SYSTEMS

MJP 300W Plus

Innovation continues for the industry's leading wax printer with smoother surface quality, greater productivity, and lower operating costs



MJP 300W Plus: Built on proven perfomance, powered by new innovation

Building on the industry-leading MJP 300W wax 3D printer, this most advanced and versatile of 3D Systems' wax 3D printers provides jewelers the freedom to tackle their manufacturing workflow with even greater efficiency and higher-quality results. The MJP 300W Plus prints intricate wax patterns, removing the delays, expenses, and design limitations of traditional processes. Its combination of exceptional resolution and dissolvable supports enables precise surface quality thus reducing the need for extensive finishing labor and costly polishing of precious metals.

Superior Resolution and Surface Finish

The new Surface Enhance™ feature improves surface finishes to reduce polish time and gold loss. The three print modes Hi Res-QHD, Premium-ZHD, and Standard-XHD lead to 30% productivity increases, 20% lower overall material usage, and allow for high-quality delicate details to be created while balancing print speeds.

Improved Production Speeds

3D Systems' comprehensive MultiJet Printing solution for jewelry casting combines the MJP 300W Plus 3D Printer, 3D Sprint® software, and industry-leading VisiJet® materials to deliver more than 30% improvement in wax pattern production speed over the MJP 300W. This is combined with a 60% reduction of time in post-processing of very minimal supports for the fastest jewelry wax patterns in the industry.

Reduction in Material Costs

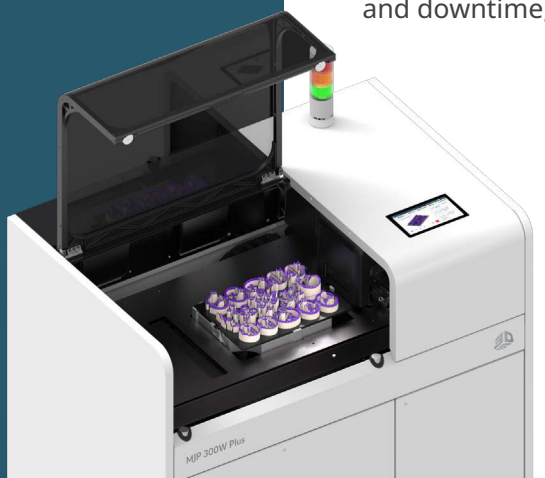
3D Systems' engineers have facilitated the novel use of minimal break-away supports that reduce required post-processing times by up to 60%, decrease material waste by up to 50%, and decrease cleaning solvents usage such as IPA over 50% with no loss of resolution and surface finish.

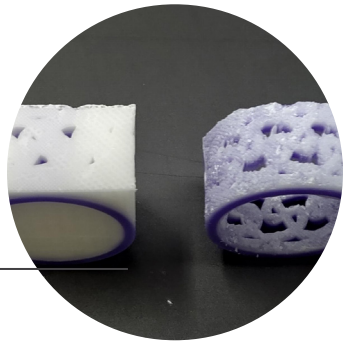
Enhanced Cybersecurity and Data Protection

New cybersecurity features integrated with 3D Sprint® software safeguard intellectual property, product quality, and business operations, designed to conform to cybersecurity standards IEC 62443-1, -3-2, -3-3 and CMMC Security Level 2. In addition, customers' data is managed locally, not in the cloud, for improved security.

Improved Reliability and Optimized Maintenance Costs

With our commitment to continuous improvement, 3D Systems has focused on delivering enhanced reliability, streamlined operations, and expanded capabilities through significant hardware enhancements. Supported by a worldwide partner network, jewelers benefit from reduced maintenance costs and downtime, while gaining greater system reliability.





New breakaway support structure

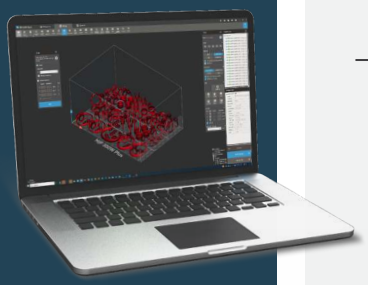
The MJP 300W Plus is the latest-generation 100% wax pattern 3D printer that adjusts to your workflow, delivering capability for both, several short run batches a day and overnight for larger builds. These highly accurate, fine wax patterns are directly printed, without the time, costs and geometric limitations of tooling.

Highest Wax Print Resolution and Speed

The MJP 300W Plus delivers industry-leading print resolution and surface finish from three print options managed by 3D Sprint® software.

- **QHD** mode maintains its functionality to deliver the highest level of quality and resolution (2400x1800x1800 dpi in XYZ) at higher speed with 20% lower material consumption than other available systems
- High fidelity patterns with upward facing contours produced effectively with **ZHD** mode at 8µm layer thickness
- **XHD** mode provides the optimal blend of speed and quality to quickly deliver a larger number of patterns for high volume jewelry manufacturers

Expertise At Your Fingertips with 3D Sprint® software



Driven by 3D Sprint® software, your workflows become secure, productive and refined.

- Use a single software application from CAD
- Increase efficiency with optimized and secure data management
- Streamline time to print and finished parts with a single, easy-to-use interface
- Improve productivity and reduce downtime with printer management and monitoring tools

The MJP 300W Plus represents the next generation of our MJP wax technology, designed to build on the strengths of the existing machine while incorporating the latest advancements in quality, speed, precision, and efficiency.

VisiJet® 100% Wax Materials Deliver Best Casting Reliability

The MJP 300W Plus utilizes VisiJet® 100% wax materials to produce flexible and durable, high-quality jewelry patterns. These materials are designed to ensure reliable performance and consistent results when used with existing lost-wax casting processes and equipment.

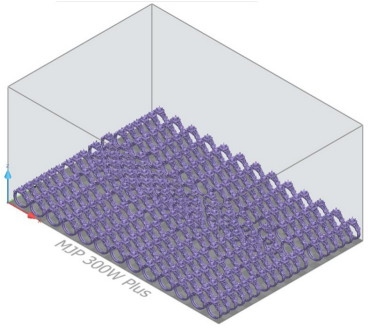
VisiJet® M2 CAST: Ideal for the sharp edges and smooth surfaces required for larger, bolder designs, melts like standard casting waxes, with zero ash content for defect free castings.

VisiJet® Wax Jewel Red: a more visible material made for the production of the most intricate designs, especially for features such as lightweight filigree and thin wire mesh designs.

VisiJet® Wax Jewel Ruby: A medium hardness wax, stable in high ambient temperatures and better for presetting stones.



PRINTING MODES		Hi Res XHD	Premium ZHD	Standard QHD
Single Lane	Rings per hour	33	16	15
	Time (hr)	2.4	4.8	5.2
	Rings total	78	78	78
Two Lane	Rings per hour	25	13	13
	Time (hr)	5.9	11.8	11.5
	Rings total	150	150	150
Three Lane	Rings per hour	23	12	12
	Time (hr)	9.5	19.1	18
	Rings total	222	222	222



* Rings / hour calculates the number of rings and build over the full build time

Key Facts about MJP 300W Plus



Accuracy	±0.0508 mm/25.4 mm (±0.002 in/in) of part dimension typical for any single printer ±0.1016 mm/25.4 mm (±0.004 in/in) of part dimension across printer population
Layer thicknesses	QHD: 14.1 µm ZHD: 8 µm XHD: 16 µm
Speed	Up to a one-inch tall full build plate in 9.5 hours
Build size	309 x 211 x 144 mm (12.1 x 8.3 x 5.6 in)
Software	Industry-leading 3D Sprint® print management software
EU Cyber Security	Designed to conform to cybersecurity standards IEC 62443-1, -3-2, -3-3
US Cyber Security	Achieves CMMC Security Level 2

Note: Not all products and materials are available in all countries – please consult your local sales representative for availability.

Warranty/Disclaimer: 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. Printer specifications are based upon the use of 3D Systems authorized materials. Printer warranty and support may be limited if unauthorized materials are used on the printer.

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