

ProJet® 3500 CP & CPX

Professional 3D Printers



3DSYSTEMS®

Superior wax casting patterns, unmatched throughput

Imagine going from a 3D design idea to a cast part in the metal of your choice. Imagine printing wax patterns of unlimited complexity with the ProJet® 3500 series of high-productivity, precise wax 3D printers. This versatile range of workhorse printers is easy to use, with fast print times and easy post-processing. Wax patterns made on ProJet 3500s are beautifully precise, with sharp edges and true-to-CAD fidelity. Efficient material use, low-maintenance operation and a five-year print head warranty means you can print with confidence and keep costs down.

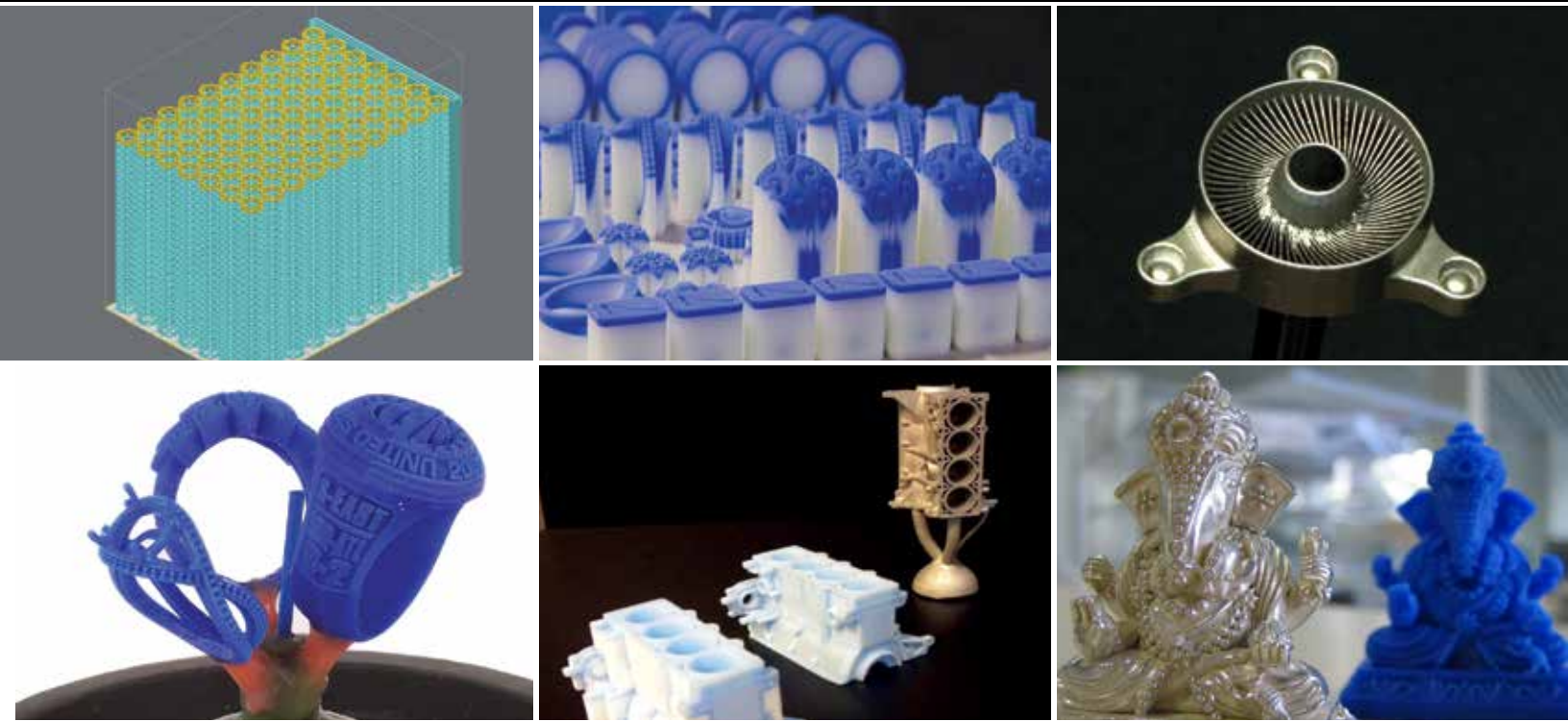
Using 3D Systems' MultiJet Printing (MJP) technology and VisiJet® M3 performance engineered materials, ProJet 3500 casting pattern printers make ultra-precise 100% RealWax™ patterns to suit your requirements, whether it's for general foundry applications, high-quality jewelry, or detailed components so complex they cannot be manufactured any other way.



www.3dsystems.com

MANUFACTURING THE FUTURE

Productive, high-capacity ProJet® 3500 professional printers



Sharp edges, crisp details and smooth surfaces from 100% RealWax™ patterns

Easy connectivity and high productivity with high resolution and accuracy

ProJet 3510 CP

The ProJet 3510 CP is transforming 3D printing of complex direct investment casting patterns. This 3D printer produces superior 100% RealWax patterns that are ideal for general foundry casting applications such as medium- to large-sized mechanical parts, pneumatics, aerospace, energy, custom manufacturing equipment, restorations and other heavy equipment.

HIGH QUALITY • PRODUCTIVITY • RAPID FOUNDRY

ProJet 3500 CPXMax

The high-capacity ProJet 3500 CPXMax offers larger high-definition prints and greater productivity. The RealWax pattern performance rivals injected wax patterns in existing lost-wax casting processes and equipment. Users everywhere can benefit from a level of increased throughput and part size, feature detail, and surface quality only possible with ProJet printers.

Max THROUGHPUT • Max DEFINITION • Max VOLUME

ProJet 3510 CPXPlus

The ProJet 3510 CPXPlus offers the flexibility to choose between four resolution modes to mass produce 100% RealWax casting patterns, supporting unlimited applications capabilities. Casting yields from ProJet 3500 patterns mirror those from standard casting waxes. Just connect to the printer and you can produce extremely fine-featured patterns with a greater level of output.

PATTERNS *Plus* • RESOLUTION *Plus* • FLEXIBILITY *Plus*

ProJet 3510 CPX

Mass produce micro-detailed 100% wax patterns with smooth surface finish, extremely fine detail and exceptional precision. The ProJet 3510 CPX enables a faster workflow, mass customization, improved casting room efficiencies, and higher productivity for a variety of applications.

PRECISION • HIGH DEFINITION • INVESTMENT CASTING

VisiJet® M3 Materials for ProJet CP & CPX Printers

The VisiJet M3 line of RealWax materials offers numerous capabilities to meet a variety of casting applications. 3D Systems' ProJet 3500 3D printers use VisiJet M3 materials to build accurate, high-definition wax patterns for direct investment casting in transportation, energy, consumer products, recreation, healthcare, education and other vertical markets.

Properties	Condition	VisiJet M3 Prowax	VisiJet M3 Hi-Cast	VisiJet S400
Composition		100% Wax	100% Wax	Wax Support Material
Color		Light Blue	Navy Blue	White
Bottle Quantity (kg)		1.75	1.75	1.75
Density @ 80 °C (liquid), g/cm ³	ASTM D4164	0.81	0.81	0.87
Melting Point, °C		70	70	55-65
Softening Point, °C		52-62	52-62	N/A
Volumetric Shrinkage, from 40 °C to RT, %		2.24	2.24	N/A
Linear Shrinkage, from 40 °C to RT, %		0.75	0.75	N/A
ProJet Compatibility		CP	CPX	CP, CPX
Description		General Foundry Casting	High Resolution Micro-Casting	Non-toxic wax support material with dissolvable hands-free removal

VisiJet M3 Prowax



VisiJet M3 Hi-Cast



VisiJet M3 RealWax Materials Benefits

- Address a wide range of casting applications
- Produce high-definition parts with crisp details and smooth surface finish
- Castable in a wide range of casting processes
- Support material offers easy post-processing and preserves delicate features

ProJet® 3500 CP & CPX

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3DSYSTEMS®

Extend Innovation. Extend Production. Extend Choices.



ProJet 3510 CP

ProJet 3510 CPX

ProJet 3510 CPXPlus

ProJet 3500 CPXMax

	ProJet 3510 CP	ProJet 3510 CPX	ProJet 3510 CPXPlus	ProJet 3500 CPXMax
Printing Modes	HD - High Definition HDHiQ - High Definition/High Quality - -	HD - High Definition HDHiQ - High Definition/High Quality - XHD - Xtreme High Definition	HD - High Definition HDHiQ - High Definition/High Quality UHD - Ultra High Definition XHD - Xtreme High Definition	HD - High Definition HDHiQ - High Definition/High Quality UHD - Ultra High Definition XHD - Xtreme High Definition
Net Build Volume (xyz)				
HD Mode	11.75 x 7.3 x 8" (298 x 185 x 203 mm)	11.75 x 7.3 x 8" (298 x 185 x 203 mm)	11.75 x 7.3 x 8" (298 x 185 x 203 mm)	11.75 x 7.3 x 8" (298 x 185 x 203 mm)
HDHiQ Mode	11.75 x 7.3 x 8" (298 x 185 x 203 mm)	11.75 x 7.3 x 8" (298 x 185 x 203 mm)	11.75 x 7.3 x 8" (298 x 185 x 203 mm)	11.75 x 7.3 x 8" (298 x 185 x 203 mm)
UHD Mode	-	-	8 x 7 x 6" (203 x 178 x 152 mm)	11.75 x 7.3 x 8" (298 x 185 x 203 mm)
XHD Mode	-	5 x 7 x 6" (127 x 178 x 152 mm)	8 x 7 x 6" (203 x 178 x 152 mm)	11.75 x 7.3 x 8" (298 x 185 x 203 mm)
Resolution				
HD Mode	375 x 375 x 775 DPI (xyz); 33µ layers	375 x 375 x 775 DPI (xyz); 33µ layers	375 x 375 x 775 DPI (xyz); 33µ layers	375 x 375 x 775 DPI (xyz); 33µ layers
HDHiQ Mode	375 x 375 x 775 DPI (xyz); 33µ layers	375 x 375 x 775 DPI (xyz); 33µ layers	375 x 375 x 775 DPI (xyz); 33µ layers	375 x 375 x 775 DPI (xyz); 33µ layers
UHD Mode	-	-	694 x 750 x 1300 DPI (xyz); 20µ layers	694 x 750 x 1300 DPI (xyz); 20µ layers
XHD Mode	-	694 x 750 x 1600 DPI (xyz); 16µ layers	694 x 750 x 1600 DPI (xyz); 16µ layers	694 x 750 x 1600 DPI (xyz); 16µ layers
Accuracy (typical)	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.			
E-mail Notice Capability	Yes	Yes	Yes	Yes
Tablet/Smartphone connectivity	Yes	Yes	Yes	Yes
5 Year Printhead Warranty	Standard	Standard	Standard	Standard
Build Materials	VisiJet M3 Prowax	VisiJet M3 Hi-Cast	VisiJet M3 Hi-Cast	VisiJet M3 Hi-Cast
Support Material	VisiJet S400	VisiJet S400	VisiJet S400	VisiJet S400
Material Packaging				
Build materials	In clean 3.86 lbs (1.75 kg) bottles (machine holds up to 2 with auto-switching)			
Support materials	In clean 3.86 lbs (1.75 kg) bottles (machine holds up to 2 with auto-switching)			
Electrical	100-127 VAC, 50/60 Hz, single-phase, 15A; 200-240* VAC, 50 Hz, single-phase, 10A			
Dimensions (WxDxH)				
3D Printer Crated	32.5 x 56.25 x 68.5" (826 x 1429 x 1740 mm)	32.5 x 56.25 x 68.5" (826 x 1429 x 1740 mm)	32.5 x 56.25 x 68.5" (826 x 1429 x 1740 mm)	32.5 x 56.25 x 68.5" (826 x 1429 x 1740 mm)
3D Printer Uncrated	29.5 x 47 x 59.5" (749 x 1194 x 1511 mm)	29.5 x 47 x 59.5" (749 x 1194 x 1511 mm)	29.5 x 47 x 59.5" (749 x 1194 x 1511 mm)	29.5 x 47 x 59.5" (749 x 1194 x 1511 mm)
Weight				
3D Printer Crated	955 lbs, 434 kg	955 lbs, 434 kg	955 lbs, 434 kg	955 lbs, 434 kg
3D Printer Uncrated	711 lbs, 323 kg	711 lbs, 323 kg	711 lbs, 323 kg	711 lbs, 323 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			
Print3D App	Remote monitoring and control from tablet, computers and smartphones			
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, Windows 7			
Input Data File Formats Supported	STL	STL and SLC	STL and SLC	STL and SLC
Operating Temperature Range	64-82 °F (18-28 °C)	64-82 °F (18-28 °C)	64-82 °F (18-28 °C)	64-82 °F (18-28 °C)
Noise	< 65 dBA estimated (at medium fan setting)			
Certifications	CE	CE	CE	CE

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



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