ProJet® 3500 CP & CPX
Professional 3D Printers Series

Precision
Productivity
Direct Casting

Projet 3500 CPXMax

Highest **Quality**	**RealWax**™	**Casting** Patterns

3DSYSTEMS®
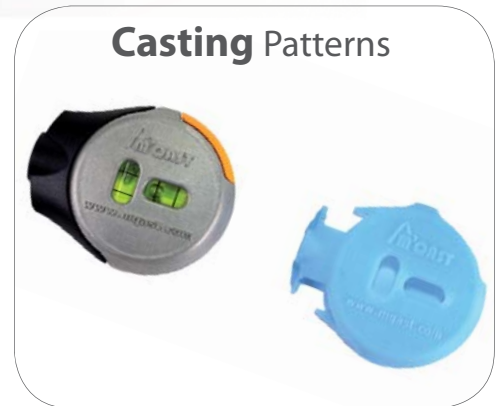
Most productive, highest capacity
ProJet® 3500 Professional Printers Series

ProJet® 3510 CP

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

HIGH QUALITY • PRODUCTIVITY • RAPID FOUNDRY

ProJet® 3510 CPXPlus

The ProJet® 3510 CPXPlus offers the flexibility to choose between 4 resolution modes to mass produce 100% RealWax™ casting patterns, supporting unlimited applications capabilities. Casting yields mirror standard casting waxes. Just connect to the printer to produce extremely finely featured patterns with a greater output.

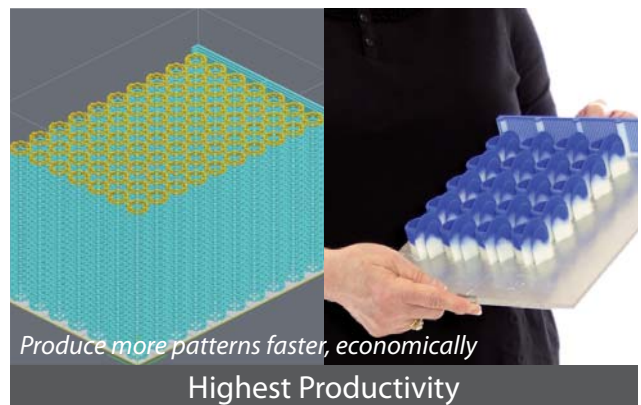PATTERNS Plus • RESOLUTION Plus • FLEXIBILITY Plus

ProJet® 3510 CPX

Mass produce 100% wax micro-detail patterns with smooth surface quality, extreme fine detail and exceptional precision to enable rapid workflow, mass customization and improved casting room efficiencies and productivity. RealWax™ ProJet® CPX patterns are ideal for casting jewelry, apparel, microdetail medical devices, medical implants, electrical components, figurines, replicas, collectables and more.

PRECISION • HIGH DEFINITION • INVESTMENT CASTING

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. Benefit of the increased throughput and part size with feature detail and surface quality only possible with ProJet® printers.

Max THROUGHPUT • Max DEFINITION • Max VOLUME

Tablet & Smartphone remote connectivity

Easiest Connectivity

Produce more patterns faster, economically

Highest Productivity

With sharp edges, crisp details and smooth surfaces

High Resolution & Accuracy

Using standard lost-wax casting processes & equipment

100% RealWax™ Patterns

VisiJet® Materials for ProJet® CP & CPX Printers

The VisiJet® line of RealWax™ materials offers numerous capabilities to meet a variety of casting applications. Using the Multi-Jet-Modeling (MJM) Technology, 3D Systems' ProJet® 3D Printers use VisiJet® Materials to build accurate, high-definition wax patterns for direct investment casting, for transportation, energy, consumer products, recreation, healthcare, education and other vertical markets.

Properties	Condition	VisiJet® Prowax	VisiJet® 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/cm³	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® Prowax

VisiJet® Hi-Cast

VISIJET® 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

VisiJet® Wax Materials for ProJet® CP & CPX

ProJet® 3500 CP & CPX
Professional 3D Printers Series

Extend Innovation. Extend Production. Extend Choices.

	ProJet® 3510 CP	ProJet® 3510 CPX	ProJet® 3510 CPX*Plus*	ProJet® 3500 CPX*Max*
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
  HDHiQ Mode
  UHD Mode
  XHD 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)
		-
		5 x 7 x 6" (127 x 178 x 152 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)
			8 x 7 x 6" (203 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)
				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)

Resolution
  HD Mode
  HDHiQ Mode
  UHD Mode
  XHD 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
		-
		694 x 750 x 1600 DPI (xyz); 16µ layers
			375 x 375 x 775 DPI (xyz); 33µ layers
			375 x 375 x 775 DPI (xyz); 33µ layers
			694 x 750 x 1300 DPI (xyz); 20µ layers
			694 x 750 x 1600 DPI (xyz); 16µ layers
				375 x 375 x 775 DPI (xyz); 33µ layers
				375 x 375 x 775 DPI (xyz); 33µ layers
				694 x 750 x 1300 DPI (xyz); 20µ layers
				694 x 750 x 1600 DPI (xyz); 16µ layers

Accuracy (typical)	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	Yes	Yes	Yes
Tablet/Smartphone connectivity	Yes	Yes	Yes	Yes
5 Year Printhead Warranty	Standard	Standard	Standard	Standard
Build Materials	VisiJet® Prowax	VisiJet® Hi-Cast	VisiJet® Hi-Cast	VisiJet® Hi-Cast
Support Material	VisiJet® S400	VisiJet® S400	VisiJet® S400	VisiJet® S400

Material Packaging
  Build materials
  Support materials
	In clean 3.86 lbs (1.75 kg) bottles (machine holds up to 2 with auto-switching)
	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
 	
  3D Printer Uncrated
	32.5 x 56.25 x 68.5"
	(826 x 1429 x 1740 mm)
	29.5 x 47 x 59.5"
	(749 x 1194 x 1511 mm)
		32.5 x 56.25 x 68.5"
		(826 x 1429 x 1740 mm)
		29.5 x 47 x 59.5"
		(749 x 1194 x 1511 mm)
			32.5 x 56.25 x 68.5"
			(826 x 1429 x 1740 mm)
			29.5 x 47 x 59.5"
			(749 x 1194 x 1511 mm)
				32.5 x 56.25 x 68.5"
				(826 x 1429 x 1740 mm)
				29.5 x 47 x 59.5"
				(749 x 1194 x 1511 mm)

Weight
  3D Printer Crated
  3D Printer Uncrated
	955 lbs, 434 kg
	711 lbs, 323 kg
		955 lbs, 434 kg
		711 lbs, 323 kg
			955 lbs, 434 kg
			711 lbs, 323 kg
				955 lbs, 434 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 (except ProJet CP) ; 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 ºF (18-28 ºC)	64-82 ºF (18-28 ºC)	64-82 ºF (18-28 ºC)	64-82 ºF (18-28 ºC)
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.