ProJet® 3500 DP & MP

Professional 3D Printers

Precise dental and medical modeling at the speed of 3D printing

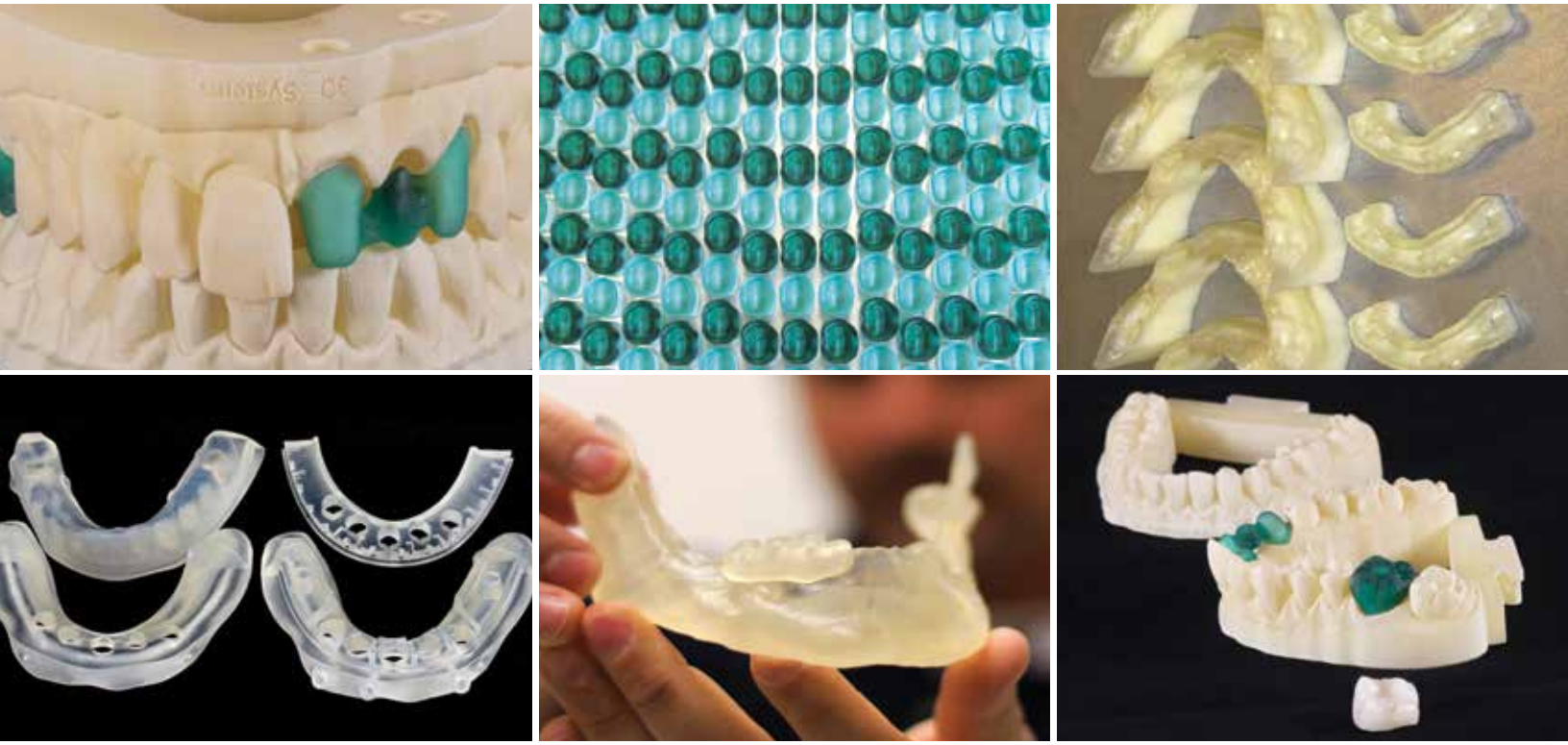
Engineered specifically for dental lab use, the highly productive, easy-to-use ProJet 3510 DP and ProJet 3510 MP 3D printers will take your productivity to the next level. The ProJet 3510 DP prints accurate wax-ups for production of prosthetic devices such as copings, crowns, bridges and partial denture frameworks. The ProJet 3510 MP manufactures precision working models, including crown and bridge, orthodontic, partial denture and jaw models in a hard stone-like material, as well as drill guides in durable plastic material.

Using 3D Systems' MultiJet Printing (MJP) technology, these printers provide round-the-clock, high-quality customized models for immediate casting, pressing, patient education and testing. With a choice of materials that fit into existing production workflows, including USP Class VI-certified VisiJet® Stoneplast, the ProJet 3510 DP and MP make accepted production methods faster, easier and more effective. The large build volume means more models in less time, and accuracy of .001- .002 inches per inch (0.025-0.05 mm per 25.4 mm) of part dimension means better results and happier clients. Efficient material use, low-maintenance operation and a five-year print head warranty means you can print with confidence and keep costs down.

www.3dsystems.com

MANUFACTURING*THE*FUTURE

Productive, high-capacity ProJet® 3500 professional printers



Perfect fit for every application range: crowns and bridges, guides, partials and jaw models

Easy connectivity and high productivity with high resolution and accuracy

ProJet 3510 DP

The ProJet 3510 DP accurately, consistently and economically manufactures precision wax-ups for dental labs.

The system can generate hundreds of units per cycle, each with extremely smooth surface finish, that are ready for conventional casting and pressing. ProJet 3510 DP users enjoy an average of 20% savings on alloy consumption and 50% savings on framework finishing time.

ACCURACY • CAPACITY • COMPATIBILITY

ProJet 3510 MP

The ProJet 3510 MP is designed for 24/7 use, allowing laboratories to boast same-day cycle times, reduced lead times and diminished costs.

The ProJet 3510 MP is capable of producing any size model in a choice of two materials and two print modes: smooth and matte. The height of productivity, this system can produce up to 24 quad cases in a single build.

PRECISION • PRODUCTIVITY • COMPATIBILITY

VisiJet® M3 Materials for ProJet DP & MP Printers

The VisiJet M3 line of materials meets a variety of commercial applications. 3D Systems' ProJet 3510 DP and MP 3D printers use VisiJet M3 materials to consistently and economically manufacture accurate, uniformly thin wax-ups and precision dental models, including crown and bridge, orthodontic and partial denture models, drill guides and medical models.

Properties	Condition	VisiJet M3 Dentcast	VisiJet M3 PearlStone	VisiJet M3 Stoneplast	VisiJet S300
Composition		---------- UV Curable Plastic ----------			Wax Support Material
Color		Dark Green	White	Natural	White
Bottle Quantity (kg)		2	2	2	2
Density @ 80 °C (liquid), g/cm^3	ASTM D4164	1.02	1.04	1.02	N/A
Tensile Strength, MPa	ASTM D638	32	40	41	N/A
Tensile Modulus, MPa	ASTM D638	1724	1794	1850	N/A
Elongation at Break, %	ASTM D638	12.3	7.7	17	N/A
Flexural Strength, MPa	ASTM D790	45	N/A	51	N/A
Heat Distortion Temperature, °C	D648 @ 0.45MPa	N/A	88	56	N/A
Ash Content, %		0.01	N/A	N/A	N/A
Melting Point, °C		N/A	N/A	N/A	60
Softening Point, °C		N/A	N/A	N/A	40
USP Class VI Certified*		No	No	Yes	N/A
ProJet Compatibility		DP	MP	MP	DP, MP
Description		Wax-up castable material	Solid stone appearance	Transparent, clear or stone finish**	Non-toxic wax material for hands-free melt-away supports

** DISCLAIMER: It is the responsibility of each customer to determine that its use of any Class VI certified VisiJet® material is safe, lawful and technically suitable to the customer's intended applications. Customers should conduct their own testing to ensure that this is the case.*

*** Choice of finish requires additional post processing.*

Works with any compatible intraoral, plaster or impression scanner

ProJet® 3500 DP & MP

Professional 3D Printers

Extend Innovation. Extend Production. Extend Choices.

	ProJet 3510 DP	**ProJet 3510 MP**
Printing Modes	HD - High Definition UHD - Ultra High Definition	HDX - High Definition Smooth (drill guides, jaw models and orthodontic thermoforming models) HDP - High Definition Plaster (plaster-like appearance for crown and bridge, partial denture and orthodontic models)
Net Build Volume (xyz)		
HD Mode	11.75 x 7.3 x 8 inches (298 x 185 x 203 mm)	-
UHD Mode	8 x 7 x 6 inches (203 x 178 x 152 mm)	-
HDX and HDP Modes	-	11.75 x 7.3 x 8 " (298 x 185 x 203 mm)
Resolution		
HD Mode	375 x 375 x 790 DPI (xyz); 32µ layers	-
UHD Mode	750 x 750 x 890 DPI (xyz); 29µ layers	-
HDX and HDP Modes	-	375 x 375 x 790 DPI (xyz): 32µ 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
Tablet/Smartphone connectivity	Yes	Yes
5 Year Printhead Warranty	Standard	Standard
Build Materials	VisiJet M3 Dentcast	VisiJet M3 PearlStone VisiJet M3 Stoneplast
Support Material	VisiJet S300	VisiJet S300
Material Packaging		
Build and support materials	In clean 4.41 lbs (2 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 inches (826 x 1429 x 1740 mm)	32.5 x 56.25 x 68.5 inches (826 x 1429 x 1740 mm)
3D Printer Uncrated	29.5 x 47 x 59.5 inches (749 x 1194 x 1511 mm)	29.5 x 47 x 59.5 inches (749 x 1194 x 1511 mm)
Weight		
3D Printer Crated	955 lbs, 434 kg	955 lbs, 434 kg
3D Printer Uncrated	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 and SLC	STL and SLC
Operating Temperature Range	64-82 ºF (18-28 ºC)	64-82 ºF (18-28 ºC)
Noise	< 65 dBa estimated (at medium fan setting)	< 65 dBa estimated (at medium fan setting)
Certifications	CE	CE

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