ProJet® 3510 DP*Pro*

Dental 3D Printer

Precise wax-up and dental model production at the speed of 3D printing

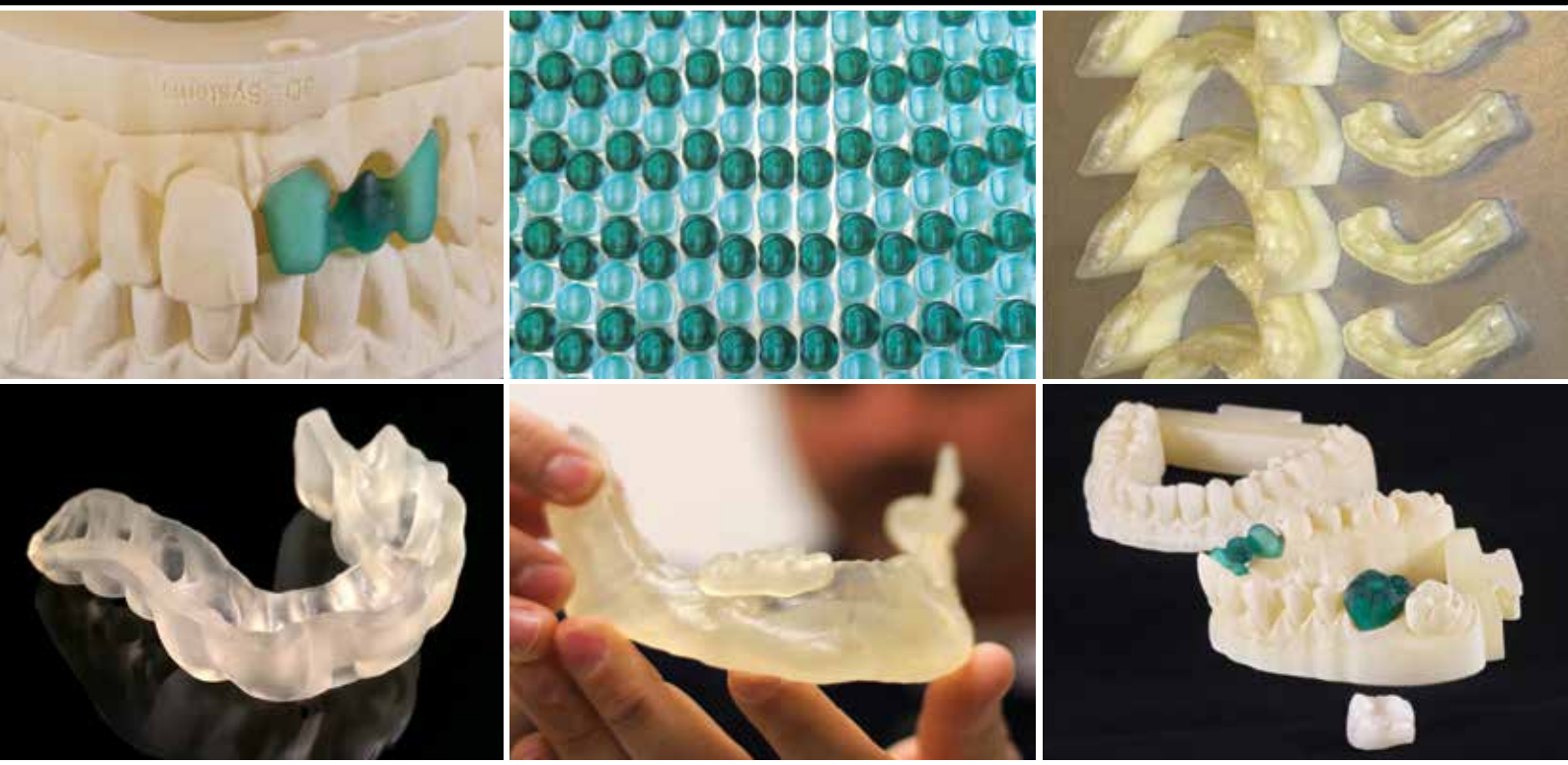
Engineered specifically for dental lab use, the high-capacity ProJet 3510 DP*Pro* 3D printer will take your productivity to the next level. With round-the-clock operation and same-day cycle times, this dental CAD/CAM printer dramatically reduces lead times and costs. The ProJet 3510 DP*Pro* quickly prints accurate wax-ups for the production of prosthetic devices, manufactures precision working models in a stone-like material, and produces drill guides in durable plastic material.

Using 3D Systems' MultiJet Printing (MJP) technology, this printer provides 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-capable VisiJet® Stoneplast, the ProJet 3510 DP*Pro* makes accepted production methods faster, easier and more effective. The large build volume means more wax-ups and models in less time, and the high accuracy 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® 3510 DP*Pro* dental printer



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

Easy connectivity and high productivity with high resolution and accuracy

High Quality

The ProJet 3510 DP*Pro* accurately, consistently and economically manufactures precision wax-ups and dental models in dental laboratories. Verified accuracy for dental applications ensures you can get the perfect fit every time.

With extremely smooth surface finish and uniformly thin walls, ProJet 3510 DP*Pro* users enjoy an average of 20% savings on alloy consumption and 50% savings on framework finishing time.

Highest Capacity

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

The printer can generate hundreds of units per cycle that are ready for conventional casting and pressing, and it 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 printer can produce up to 24 quad cases in a single build and up to 18 partial frameworks in around five hours.

VisiJet® M3 Materials for ProJet 3510 DP*Pro* Printer

The VisiJet M3 line of materials meets a variety of commercial applications. 3D Systems' ProJet 3510 DP*Pro* 3D printer uses 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 @ 0.45 MPa	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 Capable*		No	No	Yes	N/A
Printing Modes Compatibility		UHD, HDX, HDP	HDX, HDP	HDX, HDP	UHD, HDX, HDP
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 USP Class VI-capable 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 open STL-compatible intraoral, plaster or impression scanner

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Dental 3D Printer

Extend Innovation. Extend Production. Extend Choices.

ProJet 3510 DP*Pro*

Printing Modes	
UHD Mode	Ultra High Definition
HDX Mode	High Definition Smooth (drill guides, jaw models and orthodontic thermoforming models)
HDP Mode	High Definition Plaster (plaster-like appearance for crown and bridge, partial denture and orthodontic models)
Net Build Volume (xyz)	11.75 x 7.3 x 8 inches (298 x 185 x 203 mm)
Resolution	
UHD Mode	750 x 750 x 890 DPI (xyz); 29µ layers
HDX Mode	375 x 375 x 790 DPI (xyz); 32µ layers
HDP Mode	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
Tablet/Smartphone connectivity	Yes
5 Year Printhead Warranty	Standard
Build Materials	
UHD Mode	VisiJet M3 Dentcast
HDX Mode	VisiJet M3 Dentcast, VisiJet M3 Stoneplast, VisiJet M3 PearlStone
HDP Mode	VisiJet M3 Dentcast, VisiJet M3 Stoneplast, VisiJet M3 PearlStone
Support Material	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)
3D Printer Uncrated	29.5 x 47 x 59.5 inches (749 x 1194 x 1511 mm)
Weight	
3D Printer Crated	955 lbs (434 kg)
3D Printer Uncrated	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
Operating Temperature Range	64-82 °F (18-28 °C)
Noise	< 65 dBa estimated (at medium fan setting)
Certifications	CE

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

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