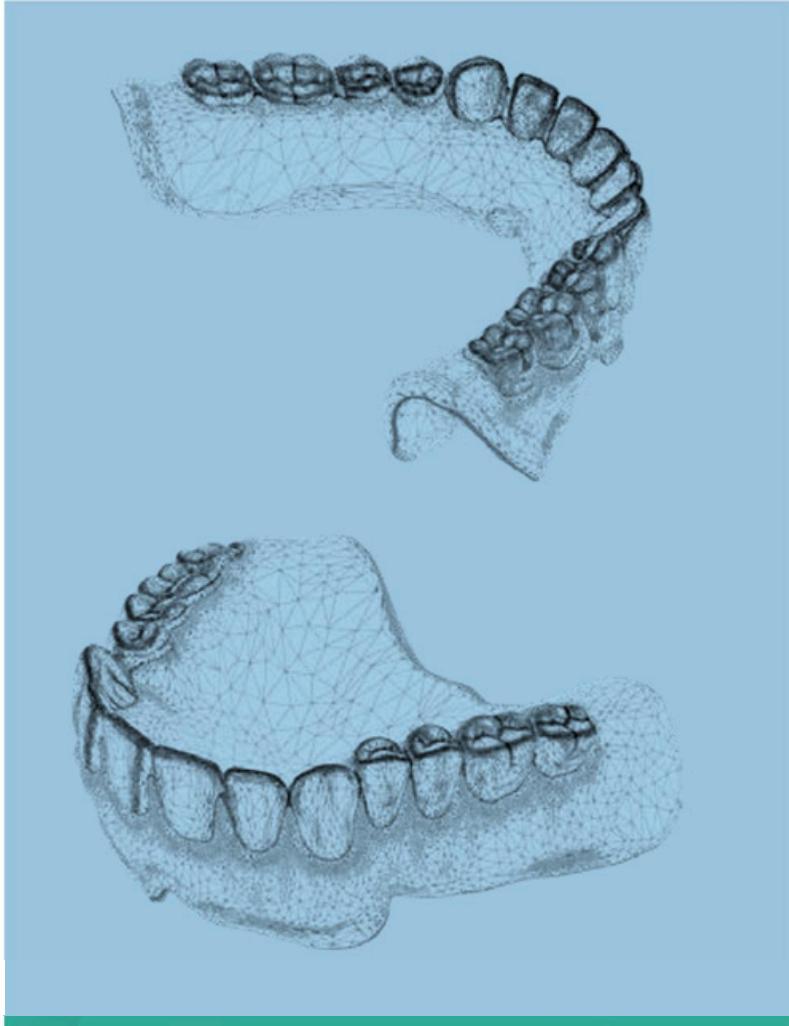
NextDent® Jetted Denture Solution

Transform Dental Care with the a Multi-Material, Monolithic Jetted Denture Solution



CAD BLU®
Additive Manufacturing Solutions

Solution Overview

NextDent Jetted Denture Solution sets a new benchmark in denture production. Using MultiJet Printing (MJP) technology, this solution delivers superior-quality dentures with fewer manual steps, streamlining production while reducing costs. This solution is designed to help labs scale production efficiently while delivering high-quality dentures that meet the growing demand for digital solutions.

Why Choose NextDent Jetted Denture Solution?

Unmatched Speed and Efficiency

Our cutting-edge, **multi-material jetting** technology and fully automated workflow allows labs to produce dentures in approximately 10 hours of total labor time without sacrificing quality.

Best in Class Fit, Strength and Aesthetics

The ability to print **monolithic dentures with a seamless integration of materials** provides natural aesthetics, superior strength, and a highly realistic appearance that enhances patient satisfaction.

Scalability and Digital Integration

The solution seamlessly integrates with **CAD/CAM workflows,** allowing for rapid customization and design iteration that **scales effortlessly from small batch to high-volume denture production.**

How It Works: 3 Simple Steps

1. Prepare Files

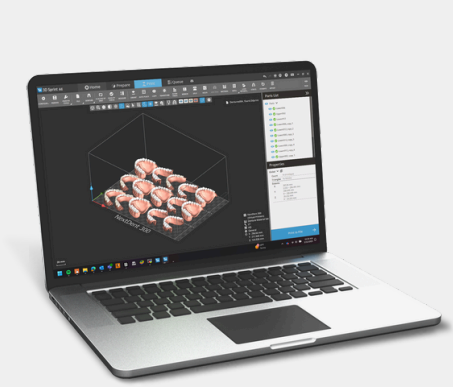
Prepare files using CAD software and import into 3D Sprint®, our proprietary software for preparing and optimizing files for print.

2. Print

Use the NextDent 300 MultiJet Printer to create highly accurate denture bases and teeth in a single print.

3. Post-Process and Deliver

Simple cleaning and polishing — minimizing the need for skilled labor.



Printer Properties

Dimensions (W x D x H)	1183 x 740 x 1077 mm (47 x 29 x 42 in)
Weight	247 kg (546 lbs)
Electrical requirements	100–127 VAC, 50/60 Hz, single-phase, 15AA 200–240 VAC, 50 Hz, single-phase, 10A
Internal hard drive	500 GB minimum
Operating temperature range	25° C (77° F)
Operating humidity	30–70% relative humidity
Noise	<65 dBa estimated (at medium fan setting)

Materials

Build material	NextDent Jet Teeth White NextDent Jet Teeth Yellow NextDent Jet Base LT
Support material	VisiJet® M2 SUP
Material packaging: Build material Support material	 1kg 1.4 kg
Auto switching bottle capacity	2 of each (build/support)

Printer Specifications

Max Build of Volume (xyz)[1]	294 x 211 x 144 mm (11.6 x 8.3 x 5.6 in)
Resolution	1600 x 900 x 1600 DPI; 32 µm layers

Software and Network

3D Sprint® 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
Client hardware minimum specifications	• Intel® or AMD® processor with a minimum of 2.0 GHz and 4 GB RAM • OpenGL 2.1 and GLSL 1.20 enabled graphics card; screen resolution 1280 x 960 • Dedicated graphics card: NVIDIA GeForce GTX 285, Quadro P1000, AMD Radeon HD 6450, or newer • 10 GB of available hard-disk space; additional space may be required for cache. • Temporary file cache requires about 3 GB free disk space for every 100 million points • Internet Explorer 9 or newer • Other: 3–button mouse with scroll, keyboard, Microsoft .NET Framework 4.8 installed with application
3D Connect™ capable	3D Connect Service provides a secure, cloud-based connection to 3D Systems service teams for support.Network-ready with 10/100/1000 base ethernet interface;
Connectivity	USB port
E-mail notice capability	Yes
Client operating system	Windows 8.1 ~ Windows 11 (64-bit)
Input data file formats supported	STL, CTL, OBJ, PLY, ZPR, ZBD, AMF, WRL, 3DS, FBX, IGES, IGS, STEP, STP, MJPDDD

[1] Maximum part size is dependent on geometry, among other factors.

* It is the responsibility of each customer to determine that its use of any VisiJet material is safe, lawful and technically suitable to the customer's intended applications. The values presented here are for reference only and may vary. Customers should conduct their own testing to ensure suitability for their intended application.

Scan the code to begin a conversation with one of our experts.

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