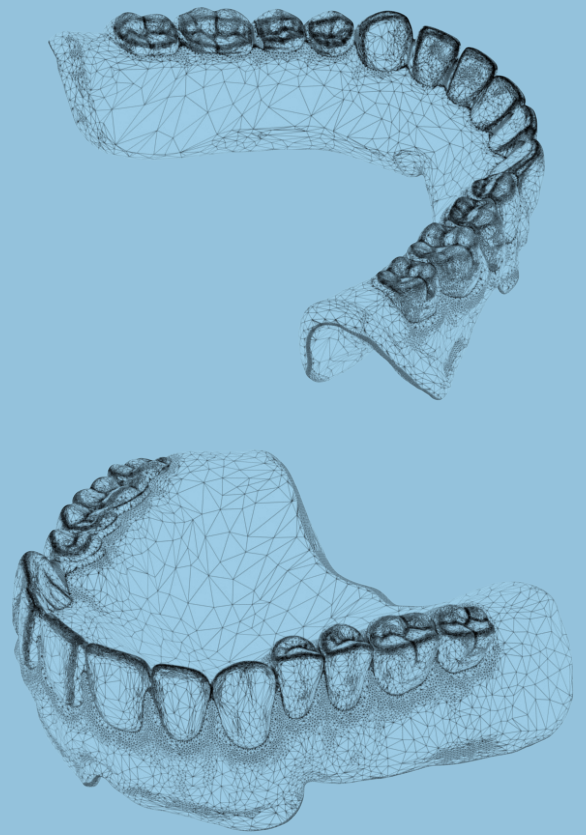




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a conversation with  
one of our experts.

# NextDent® Jetted Denture Solution

Transform Dental Care  
with the Industry's  
First Multi-Material,  
Monolithic Jetted  
Denture Solution



## 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 allow 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 Does the Solution Compare to Other Production Methods?

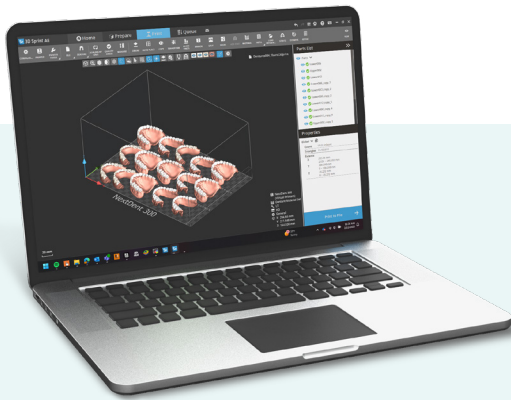
The Jetted Denture Solution provides a faster, more cost-effective and highly scalable alternative to traditional denture fabrication, enabling better business outcomes for labs and improved results for patients.



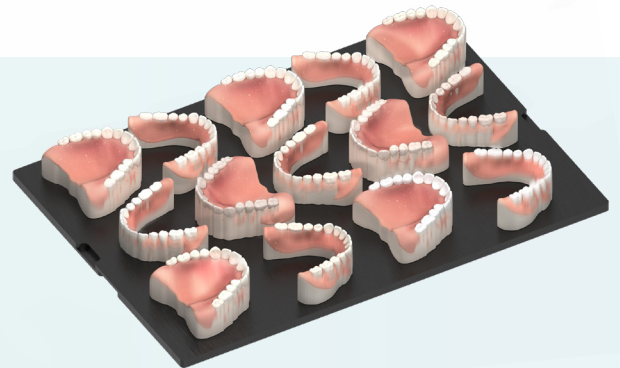
|                             | Jetted Denture Solution           | Projector-based 3D Printing                 | Milling                                | Analog Dentures                        |
|-----------------------------|-----------------------------------|---|--|--|
| Business Benefits           |                                   |   |  |  |
| Production speed            | Fast                              | Moderate                                    | Slow                                   | Long (manual)                          |
| Material waste              | Minimal                           | Moderate                                    | High (disc waste)                      | High (manual errors)                   |
| Labor requirements          | Low (automated)                   | Moderate                                    | High                                   | High                                   |
| Scalability                 | Easily scalable                   | Limited                                     | Not ideal for mass production          | No scalability                         |
| Cost per denture            | Low                               | Moderate                                    | High                                   | High                                   |
| Return on investment (ROI)  | High                              | Moderate                                    | Low                                    | Very low                               |
| User Benefits               |                                   |   |  |  |
| Fit accuracy                | High (due to monolithic nature)   | High, but bonding of teeth reduces accuracy | High, but tool wear affects accuracy   | Highly variable                        |
| Aesthetic quality           | Seamless color and translucency   | High, but limited shades                    | High, but labor-intensive              | Technician-dependent                   |
| Strength & durability       | High-strength monolithic dentures | Layer adhesion issues                       | Strong                                 | Variable (material-dependent)          |
| Customization & consistency | Fully digital and repeatable      | Digital, with manual teeth bonding          | Limited options                        | Highly manual, difficult to replicate  |
| Biocompatibility & safety   | Biocompatible, with minimal waste | Biocompatible, but fewer material options   | Biocompatible, but high material waste | Biocompatible, but high material waste |



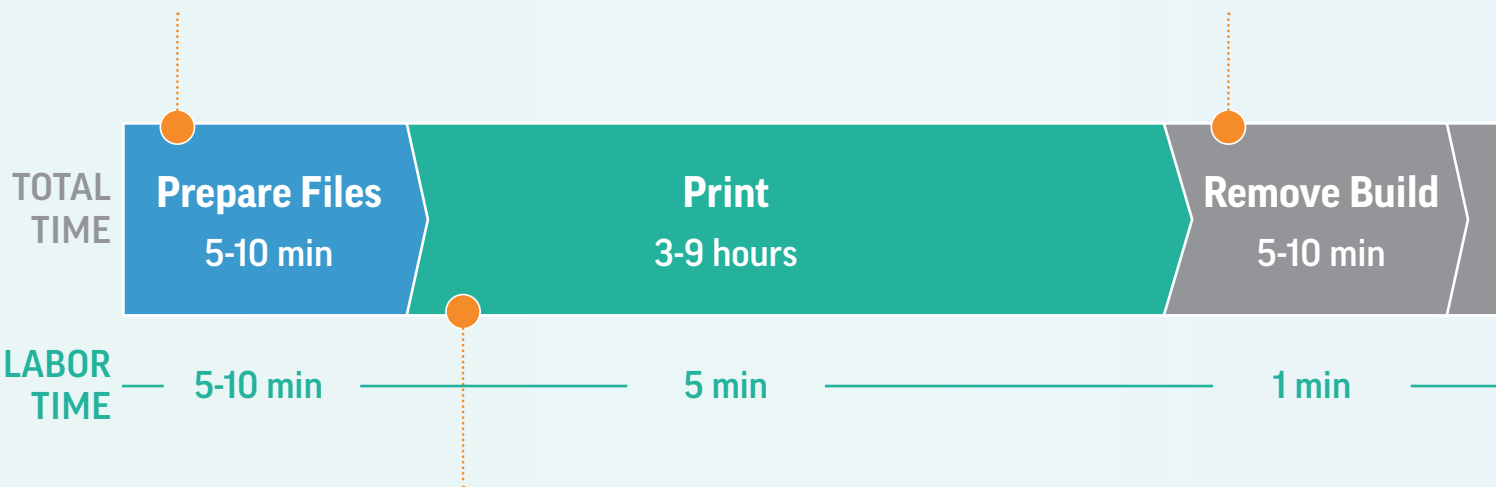
# NextDent Jetted Denture Solution – Complete Workflow



Create CAD files and import into 3D Sprint. Indicate shades, auto-position & support, and send to printer



Remove platform and place onto hotplate or into freezer for adequate time

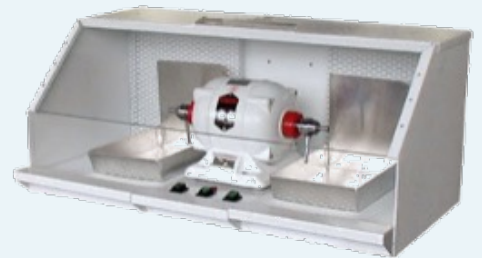


Verify printer is ready, check materials & waste bin; print time varies on part count





Transfer parts to wet bead blast cabinet for treatment



Pre-polish then final-polish part with lathe buffing wheel

**Bulk Wax Removal**  
120 min

**Fine Wax Removal**  
20 min

**Wet Bead Blast**  
3 min/part

**Polish**  
3 min/art

2 min

2 min

3 min/part

3 min/part

**TOTAL LABOR TIME: ~20 min**

**TOTAL TIME: ~12 hours**

Place parts in forced air oven at 65-70°C until majority of wax supports melt away

Place parts in mineral oil sonic bath. Transfer to hot soapy water bath, rinse





### NextDent 300 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<br>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<br>NextDent Jet Teeth Yellow<br>NextDent Jet Base LT |
| Support material               | VisiJet® M2 SUP   |
| Material packaging:            | Build material 1 kg<br>Support material 1.4 kg                                |
| Auto switching bottle capacity | 2 of each (build/support)   |

### Printer Specifications

|  |  |
|--|--|
| Max build of volume (xyz) <sup>1</sup> | 294 x 211 x 144 mm (11.6 x 8.3 x 5.6 in) |
| Resolution                             | 800 x 900 x 800 DPI; 32 µm layers        |

## What Dental Labs and Clinicians Are Saying

"The quality of a monolithic denture with different material properties is unique and has a huge advantage for our customers due to the high quality and strength in combination with the best possible aesthetics."

Germen Versteeg, Denturist and Owner of Denticien

| 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 | <ul style="list-style-type: none"><li>• Intel® or AMD® processor with a minimum of 2.0 GHz and 4 GB RAM</li><li>• OpenGL 2.1 and GLSL 1.20 enabled graphics card; screen resolution 1280 x 960</li><li>• Dedicated graphics card: NVIDIA GeForce GTX 285, Quadro P1000, AMD Radeon HD 6450, or newer</li><li>• 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</li><li>• Internet Explorer 9 or newer</li><li>• Other: 3-button mouse with scroll, keyboard, Microsoft .NET Framework 4.8 installed with application</li></ul> |
| 3D Connect™ capable                    | 3D Connect Service provides a secure, cloud-based connection to 3D Systems service teams for support   |
| Connectivity                           | Network-ready with 10/100/1000 base ethernet interface; 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   |

<sup>1</sup> 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.