stratasys

BROCHURE
DENTAL

TrueDent® Digital Dentures

True aesthetics made possible

Streamline production, reduce labor, and deliver premium aesthetics – all in one seamless digital workflow

Learn More

The TrueDent® Solution

TrueDent dentures are monolithic, full-color, 3D printed dentures produced with TrueDent FDA-cleared (Class II) and CE-marked (Class IIa) resin on the J5 DentaJet® 3D printer.

Traditional denture fabrication and other multi-material digital workflows are time-consuming, labor-intensive, and prone to inconsistencies.

TrueDent changes that - with scalable, low-touch production of highly aesthetic, accurate, repeatable dental appliances on a single mixed-part, high-capacity tray.

The TrueDent Difference

Monolithic Print

Full-color, single continuous print of both denture base and teeth together as one piece - no assembly or debondin.

Premium Aesthetics

Proprietary PolyJet 3D printing technology delivers natural looking, lifelike dentures with constantly expanding advanced shade and translucency options, all created digitally from the same 5 base resins.

True-to-Design Fidelity

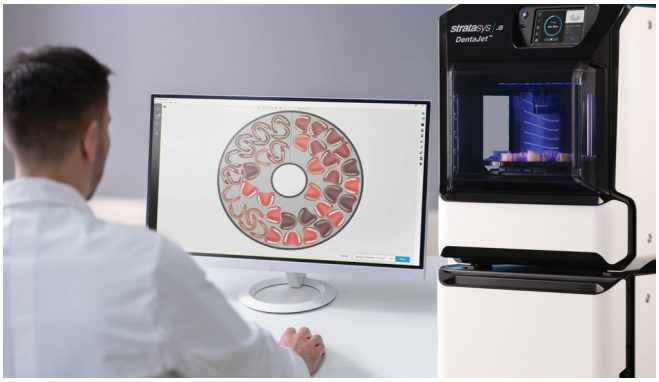
Repeatable true-to-design print produces a better fitting and functioning denture with superior accuracy, meaning fewer (if any) adjustments and patient appointments are needed.

Exact Reproducibility

Unique ability to create exact copy dentures – the only digital denture that can be perfectly reproduced.

TrueDent® Workflow – Production In Half the Time

Streamlined, scalable digital denture production with minimal manual intervention. This simplified, automated digital workflow eliminates time-consuming manual steps and allows you to produce large batches of mixed, multi-color dental appliances in a fraction of the time.



1-Click Nesting

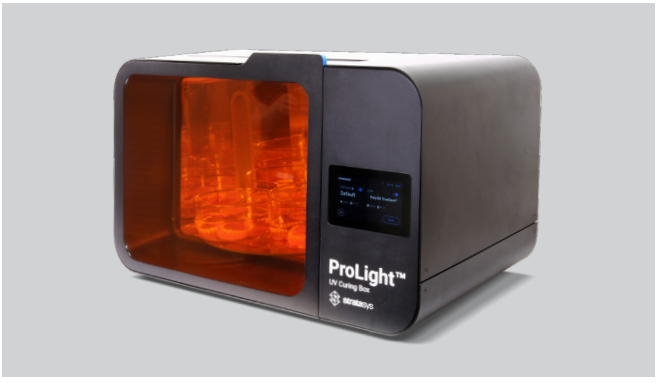
GrabCAD Print software automatically generates all supports and arranges up to 34 dentures per build to optimize tray capacity, material usage, and print time.

Unattended Print & Cure

Simultaneous printing and curing of polychromatic, monolithic parts simplifies the production process and increases efficiency, with no manual intervention needed.

Automated Wash

Water-based, large batch support removal without hazardous IPA means faster, safer production of finished parts.



Batch Thermal Treatment

Allows for processing large quantities of dentures simultaneously to set final properties.

What TrueDent Means For Your Dental Lab

Production Efficiency & Scalability

- 70% less labor time
- 5X capacity per print
- No manual assembly or risk of debonding
- No need to stock additional resins or teeth libraries
- Safer, faster post-processing & delivery

> [We] found that, between fabrication and post-insertion adjustments, digital fabrication saves us an average of 3.89 visits per denture (not including immediates) compared to conventional methods. When we extrapolate that data to our entire organization, that's a potential savings of about 147,000 hours of chair time annually…We've done over 2,700 arches now, and the consistency is remarkable."

Dr. Todd Davis
Heartland Dental

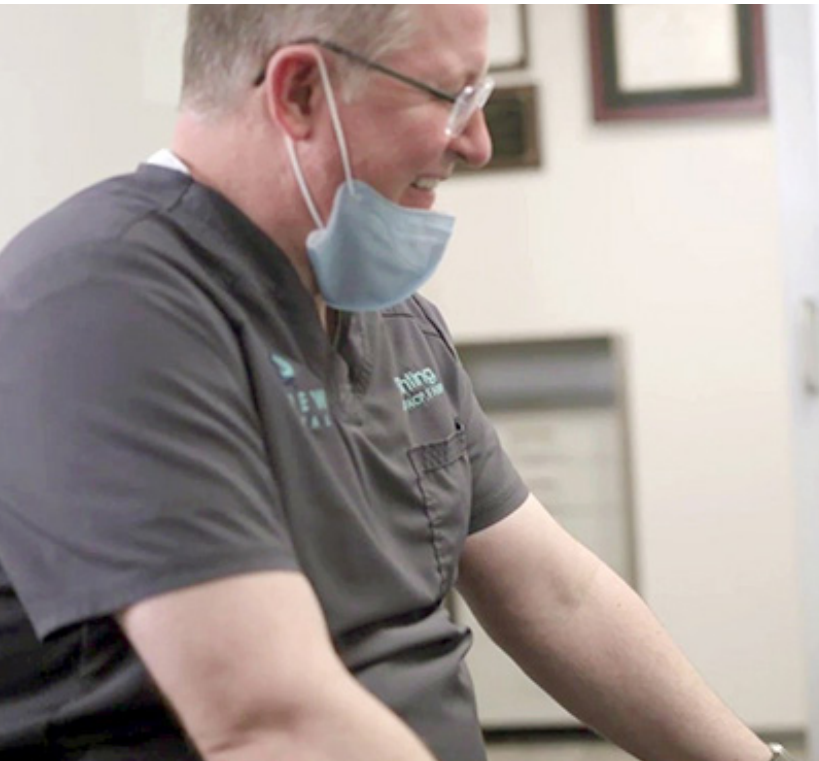
Increased Dentist & Patient Satisfaction

- 2 appointment workflow
- Less chair time
- Excellent fit, form & function
- Exact copies & replacements
- Affordable for the patient, profitable for the dentist

[Read the Renew Dental Case Study]

> This solution is better for everybody in terms of time and cost. It takes less time to create the outcome we are looking for due to the streamlined digital workflow on the lab side....we are also saving on chair time thanks to better accuracy which results in better fit and fewer (if any!) adjustment appointments needed."
>
> **Dr. Douglas Benting**
> Renew Dental

> These absolutely fit wonderfully. I can eat on both sides of my mouth. The feel in my mouth is incredible. It's been nothing but a positive experience for me."
>
> **Candice Baier-Gregory**
> TrueDent patient



Indications for Use

Stratasys TrueDent® is a light-curable resin indicated for the fabrication of dental appliances including removable full and partial dentures, denture bases, denture teeth, bridges, crowns, inlays, onlays, and veneers in dental laboratories. The material is an alternative to traditional heat-curable and auto polymerizing resins.

TrueDent is intended exclusively for professional dental work. Fabrication of dental appliances with TrueDent requires a computer-aided design and manufacturing (CAD/CAM) system that includes the following components: digital dental files based on a digital impression, a Stratasys J5 DentaJet® 3D printer, and a TrueDent Curebox or ProLight™ thermal chamber.

Regulatory Clearances: FDA-cleared (Class II), CE-marked (Class IIa)

J5 DentaJet / TrueDent Specifications

Materials	☒ TrueDent® Clear	OBJ-09164
	■ TrueDent® Cyan	OBJ-09165
	■ TrueDent® Magenta	OBJ-09166
	▦ TrueDent® Support	OBJ-09167
	□ TrueDent® White	OBJ-09168
	■ TrueDent® Yellow	OBJ-09169
Cartridge Size	1.1 kg	
Shade Presets	All teeth and base shades are created digitally using only the base resins above. The presets are continually expanding via regular software updates.	
Batch Size	Full tray ~34 dentures (case dependent)	

Material Properties

Property	Requirement	TrueDent Value	Compliance Standard
Ultimate Flexural Strength	≥65 MPa / ≥50 MPa	≥85 / ≥94 MPa	ISO 20795-1:2013 / ISO 10477:2020
Flexural Modulus	≥2000 MPa	≥2300 MPa	ISO 20795-1:2013
Water Sorption	≤32 / ≤40 µg/mm^3	≤32 / ≤28 µg/mm^3	ISO 20795-1:2013 / ISO 10477:2020
Solubility	≤1.1 µg/mm^3	≥85 ≤1.1 µg/mm^3	ISO 20795-1:2013

TrueDent exceeds industry standards for strength, durability, and biocompatibility.

System Requirements

Software

GrabCAD Print (included, compatible with all dental CAD platforms)

Post-Processing Equipment

- Water-based automated washing system* or water jet
  * Soft Relax HTM by Effegi Brega (USA OBJ-21000) (validated recommendation)
- Thermal treatment chamber: TrueDent Cure (OBJ-09940) or ProLight chamber (OBJ-09960, OBJ-09970)
- Standard dental lab finishing/polishing tools

Facility Requirements

- Standard dental laboratory environment
- Room temperature:18ºC-25ºC (64.5ºF-77ºF)
- Relative humidity: 30%-70% non-condensing
- Room ventilation system should change the air at least 4 times per hour
- 2 electrical outlets behind the printer & one outlet near the air extractor unit
- Uninterrupted Power Supply (UPS) Requirements

Output Voltage (single-phase; 50/60 Hz)	Power	Power Factor (Defined as the input-to-output ration of the UPS)	Bridging Time	Topology
100-240 VAC	1000 W	0.9	15 minutes	Double conversion online

Installation, training and technical support included.

Getting Started with TrueDent

Transform Your Denture Production Today

Ready to streamline your workflow and deliver superior aesthetics and fit? Our team is here to help you implement TrueDent® in your lab.

Contact Us:

1-800-801-6491

dental@stratasys.com

stratasys.com/dental

linkedin.com/showcase/stratasysdental

Get the Complete Guide to TrueDent

Request a TrueDent Sample

Talk to a Dental Expert

> “This efficiency is proving invaluable to our dental team”
>
> **Justan Koch**
> Artisan Dental Laboratory

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ISO 9001:2015
ISO 13485:2016

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