

DIGITAL DENTURES

by

MAVERICK
Dental Laboratories, LLC



*The Ultimate Guide
for Dentists*

Digital Dentures Reimagined

Introducing Maverick's digital dentures, a revolutionary solution that will transform the denture experience for you and your patients. Compared to analog dentures, Maverick's digital dentures solve many of the challenges faced by labs and clinicians. Imagine eliminating the headaches of 5+ appointments per patient, slow lab turnaround times, poor retentive qualities and difficult-to-please patients. With Maverick's digital offerings, dentures have never been easier.

Representing a new generation of digital dentures in the industry, Maverick's digital dentures are a culmination of 3D printed material advancements and rigorous in-lab design testing to improve try-in acceptance. This gives you a true end-to-end clinical upgrade compared to traditional analog dentures and previous generations of digital dentures.

- **Doubled Material Strength** – Breakthrough material advancements from Dentsply provide the same esthetics and reliability of Lucitone and IPN teeth, now in 3D printed resin form with proven 2x strength.
- **2-3 Appointment Workflow** – Finally, a solution to give your patients a new denture they will love as much as their old denture, with only 2-3 appointments.
- **Superior Fit and Predictability** – Digitally precise for fewer adjustments and more comfort. Eliminate inexact wax try-ins with Maverick's digital design and printing precision. These dentures fit so well, there is no need for a raised post-dam seal.
- **40% Faster Turnaround Times** – Get try-in and final dentures faster than ever before. See workflow chart below for details.
- **No Scanner? No Problem** – We convert your analog impressions into digital files for printing or we can get to work straight away from your scans. Just keep in mind that traditional border molding is still required.

Step	Traditional <i>Analog Denture</i>	Digital Denture <i>(Patient has no existing denture)</i>	Digital Denture Copy Workflow <i>(Patient has an existing denture)</i>
Custom Tray	5 Days	N/A	N/A
Wax Rim	7 Days	7 Days	N/A
Try-In	10 Days	5 Days	5 Days (if needed)
Finish	10 Days	7 Days	7 Days
Total In-Lab Days	32 Days	19 Days	12 Days
Total Appointments	5+ Appointments	4 Appointments	2-3 Appointments

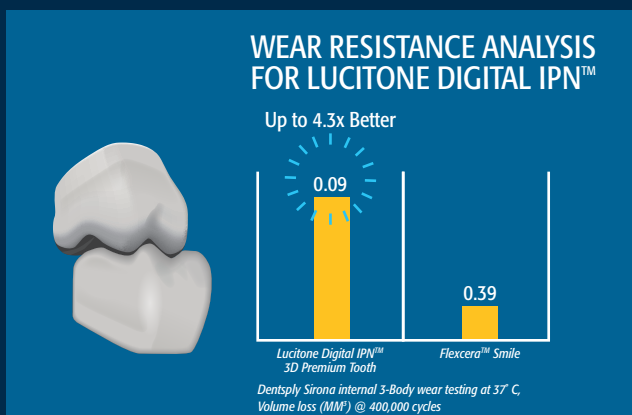
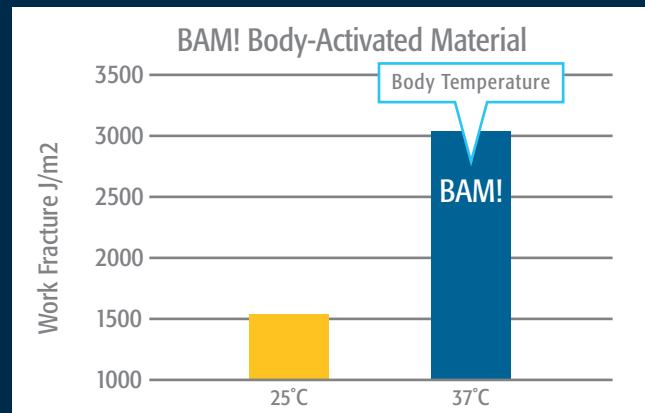
Upgrade your denture workflow today! Contact us to send your first case.

Trusted Materials

The newest innovations of 3D printed denture materials used by Maverick provide the same patient comfort and aesthetics of traditional dentures, with improved strength and precision. By utilizing trusted brand-name materials like *Lucitone Digital Print™ IPN Teeth and Bases*, you can rest assured that your digital denture cases will keep your patients smiling for years to come.

Lucitone Digital Print™ Denture Base

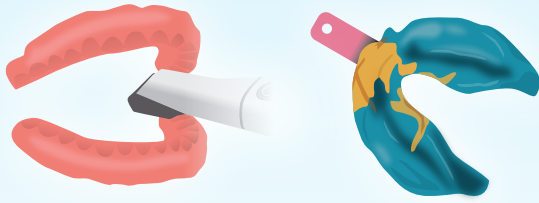
A high impact denture base material can resist the stress of chewing and the rigors of everyday patient handling without fracturing. Maverick's Lucitone Digital Print bases meet the criteria of a "high impact" denture base with a work fracture rating of 3047 J/m² at 37 degrees C and a fracture toughness of 2.5 MPa/m^{1/2}. Additionally, thanks to "BAM!" qualities (Body Activated Material), both the flexural strength and work fracture ratings more than double at body temperature.



Lucitone IPN Digital Print Teeth

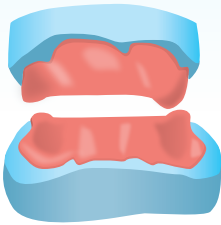
Progressive wear of occlusal surfaces of denture teeth results in insufficient tooth support, causing functional and esthetic impairments, thus reducing the longevity of the denture. In comprehensive studies, Lucitone Digital Print IPN teeth show a wear loss of only 0.09 mm³ compared to the market average wear loss of other commonly printed denture teeth.

New Denture Workflow



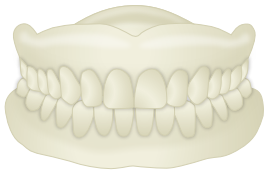
Appointment 1: Initial Impression

- Capture the preliminary impression(s) using scanner, alginate, or alginate alternative



Appointment 2: Wax Rims

- Border mold using VPS material
- Wash impression using VPS material
- Capture the plane of occlusion, lip support, vertical, and central incisor length
- Record measurement – “width on curve” or distance from distal-distal of canines and the midline
- Perform a extra-oral scan of all surfaces for upper and lower wax rims independently
- Capture bite relations with analog bite registration material
- Remove wax rims with bite registration and scan to send to the lab



Appointment 3: 3D Printed Monoblock Try-In

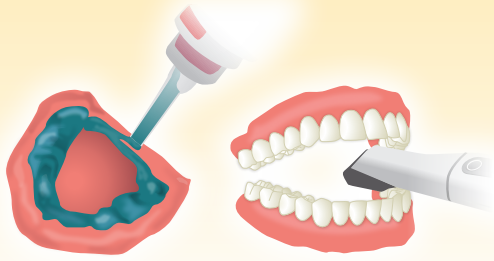
- Insert and evaluate the printed try-in
- Note any adjustments that need to be incorporated into the final denture on the RX
- Evaluate the retention – take a border/wash impression if necessary for better retention
- Adjust high spots on flange borders as needed to make fit ideal
- Evaluate the vertical, occlusion, midline, tooth length and record adjustments as needed
 - Make adjustments or demarcations with a carbide bur
- Capture the try-in bite registration
- Remove the denture, scan and send to the lab with detailed notes of any adjustments that need to be incorporated into the final denture
- Notable criteria for the re-printing the try-in denture or printing the final denture:
 - If the changes exceed 4mm, reprint the try-in with the new adjustments
 - If the changes are 4mm or less, print the final denture



Appointment 4: Final Denture Delivery

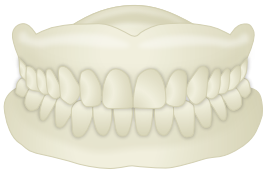
- Insert and evaluate the final denture
- Verify the fit, vertical, occlusion, midline, and tooth length

Copy/Reference Denture Workflow



Appointment 1: Assessment and Scan of Existing Denture

- Evaluate the patient and existing prosthesis
- Border mold using VPS material
- Wash impression using VPS material
- Perform an extra-oral 360 degree scan of all surfaces of the upper and lower denture. For difficult to scan areas, spraying with indicating spray and continue scanning
- Scan the bite relations and send to the lab
- Indicate on RX if the new denture is to be a copy of the original denture or if there are needed alterations using the original denture as a reference (VDO, midline, fit, etc.)



Appointment 2: 3D Printed Monoblock Try-In

- Insert and evaluate the printed try-in
- Evaluate the vertical, occlusion, midline, tooth length and record adjustments as needed
- Evaluate the fit – take a wash impression if necessary
- Capture the try-in bite registration
- Scan the adjusted try-in denture (including intaglio)
- Notate criteria for re-printing the try-in denture or printing the final denture:
 - If changes exceed 4mm, reprint the try-in with the new adjustments
 - If changes are 4mm or less, print the final denture



Appointment 3: Final Denture Delivery

- Insert and evaluate the final denture
- Verify the fit, vertical, occlusion, midline, and tooth length

Digital Dentures FAQ

Everything you need to know about digital dentures by Maverick.

1. Can I still use analog impressions, or do I need an intraoral scanner?

You can use either! We accept analog impressions, which we digitize, or digital scans from intraoral scanners. Having a digital impression system is the key to unlocking the 2-3 appointment copy/reference denture workflow.

2. Why are there still analog impression steps required for digital dentures?

Digital dentistry has come a long way in the past 10 years. However, when it comes to treating edentulous patients, wax rims and pvs border molding still remain the most effective ways to convey spatial information including VDO, midline, lip position, bite relations and soft tissue capture.

3. What defines a digital denture?

Digital dentures are not defined by the use of a digital impression system. Rather, they are defined as an entire workflow where the lab digitally designs and 3D prints (or mills) the try-in and final denture. Benefits are increased precision, faster turnaround times, fewer appointments and a stronger, more durable final denture.

4. What materials are used for digital dentures?

Materials have come a long way since the launch of digital dentures. Maverick uses printable Lucitone by Dentsply, which is more than 2x stronger than traditional dental acrylic. It actually gets stronger and more fracture resistant at body temperature, providing superior durability and esthetics.

5. How can I do immediate dentures via the digital denture workflow?

This is easy! Simply take an upper, lower and bite scan before extractions. Send Maverick the scan with instructions for a digital immediate denture. Make sure to specify in the digital RX notes any requests for VDO, midline shift, etc., compared to the dentate impression. From there, our designers will virtually extract the teeth from the model and will print a final immediate denture that is 'straight to finish'.

6. Can digital dentures be repaired or relined?

Yes! While digital dentures are highly durable, they can still be relined or repaired with traditional reline material. Plus, with digital records, we can easily remake a denture if needed.

7. What is the warranty for digital dentures?

Like all of Maverick's removable partials and dentures, Maverick's digital dentures have a 1-year warranty that covers any defect or needed repair after successful delivery of the case.

8. What happens if a patient loses their digital denture?

Because we store the digital file, we can produce an exact replica without needing new impressions or scans, saving time and hassle.

9. How do I submit a case for a digital denture?

Visit maverickdental.com/send-case/ to submit online. Send traditional impressions or digital scans. We'll handle the digital design and production, ensuring a perfect fit.

Want to Learn More?

Visit Maverick's online digital denture education hub for step-by-step instructional videos, material information and more to master digital dentures in your practice.

maverickdental.com/digitaldentures



Contact us today!

maverickdental.com | 866-294-7444