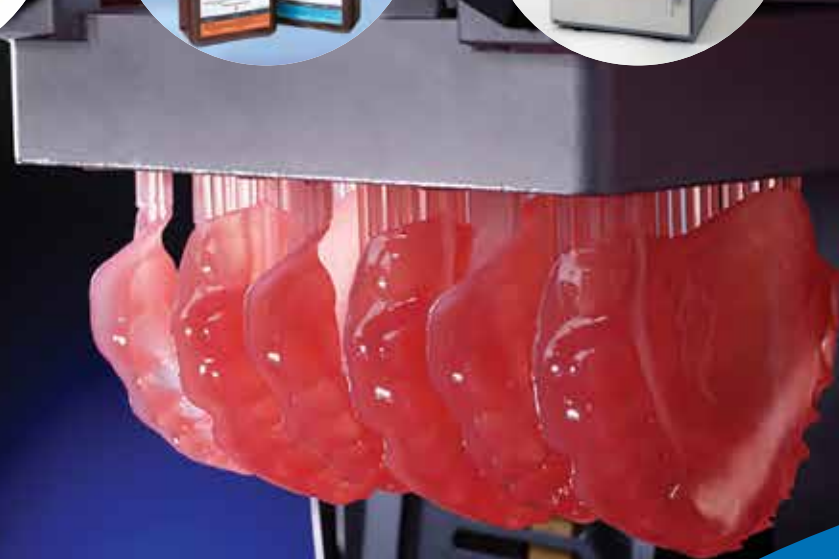


PRINTED DIGITAL DENTURES WITH OPEN SOURCE TECHNOLOGY

Whip Mix brings you a validated process using Dentca resins (the first FDA-cleared printed denture materials), the ASIGA 3D printer and the UViTRON UV curing unit.



DENTAL TECHNOLOGY SOLUTIONS



HOW DIGITAL DENTURES ARE MADE

DATA CAPTURE

The dentist takes a full mouth digitally-scanned impression and sends it to the lab. But, if the dentist prefers a more conventional approach, they can take conventional impressions, determine the vertical, the CR and the mid-line, all using bite rims. It's a short first appointment.

DESIGN/TREATMENT PLAN

Using 3Shape (or other) CAD design software, the denture is designed, the teeth are placed into occlusion in the denture base and an .STL file is made.

PRINT TRY-IN

The teeth and the base are printed separately with the Asiga Max or Pro Series printers at 385nm, then post-processed. The teeth are affixed to the denture bases using the same resin they were made from.

RESCAN TRY-IN AND DIGITALLY ADJUST

The denture can be digitally designed and printed in one piece with the bio-compatible Ivory try-in resin. If adjustments are necessary, the dentist can grind on the material, or add composite resin to modify the try-in. The try-in denture would then be scanned, modified, and printed.

PRINT DENTURE BASE AND TEETH

The teeth and the base are printed separately with the Asiga Max or Pro Series printers. The dentures can also be produced in one single print using a tooth-colored resin. Customized shading of the gingiva can then be accomplished by using one of several available light-cured shading materials.

POST-PROCESS AND BOND

Follow the instructions for post-processing and affix the teeth to the base using the same resin they were made from.

DENTCA RESINS

The Dentca materials' physical properties and biocompatibilities have passed the FDA requirements and are similar to conventional denture bases and acrylic teeth. The 3D denture material is a type of acrylic similar to PMMA with the same properties as conventional acrylic. Add to that the convenience of curing through UV light instead of temperature.



DENTCA 3D PRINTABLE RESINS

- Dentca Try-in Resin (Ivory)
- Dentca Denture Teeth Resin in Vita shades A1, A2, A3, A3.5, B1 & B2
- Denture Base II Resin in Original Pink, Light Pink, Reddish Pink & Dark Pink shades.

Denture Teeth Resin — 1 Kg	Denture Base II Resin — 1 Kg	Try-In Resin
71120 A1	71110 Original Pink	71150 Ivory
71121 A2	71111 Light Pink	
71122 A3	71112 Reddish Pink	
71123 A3.5	71113 Dark Pink	
71124 B1		
71125 B2		

ASIGA 3D PRINTERS

VALIDATED TO WORK WITH DENTCA RESINS

Fast, accurate, and affordable, Asiga 3D printers operate in an open system that allows labs to use virtually any resin material. Designed for both desktop precision and large scale production, the open system printers efficiently produce dental models, surgical guides, splints, casting/pressing patterns, partial denture frameworks and custom impression trays with virtually any printing resin.

They are all affordably priced and feature the same high level of detail and extreme accuracy. They all also come with free nesting software.

The Asiga Pro 2 and the Asiga MAX offer:

- open material source 3D printing
- patented "Slide and Separate"
- low maintenance
- single point calibration
- Wifi connectivity
- lifetime technical support guarantee
- touchscreen interface
- automated support generation proven manufacturing reliability.



PRO2

MAX



UVITRON CURING UNIT

The UVITRON INTELLIRAY 600 and Rayven chamber is a UV light curing system that cures denture materials in 20 minutes.

- Wide range of light (320-390nm)
- Long-life 600-Watt metal halide-type lamp
- High capacity (8"×6" curing area) — cure up to 8 dentures
- Built-in timer with audible beep
- Cooling system to ensure high reliability of the unit components Integrated exposure shutter for highest protection from UV radiation

Item # 71270 — UViTRON UV Curing Unit

WHY 3D PRINT YOUR DENTURES?

- Faster
- Fewer patient visits
- Less chair time
- Reprintable
- Easier technique
- Predictable fit

**CONTACT OUR SALES TEAM AT WHIP MIX TO LEARN HOW
DIGITAL 3D PRINTING CAN STREAMLINE YOUR DENTURE FABRICATION
WORKFLOWS AND REQUEST A FREE PRINTED SAMPLE.**



DENTAL TECHNOLOGY SOLUTIONS

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