



Partials with Lucitone Digital Print Denture™ System

Innovative Technology

Digital 3D printed dentures are delivering a paradigm shift in the laboratory with the ability to design and accurately produce full-arch restorations. While polymer resins do not have the same mechanical properties as alloys, they do have benefits including natural gingiva esthetics and strength to address the concerns of denture breakage from dropping or chewing.

Lucitone Digital Print™ 3D Denture Base is created with our high-impact BAM! smart polymer technology - a **Body-Activated Material that doubles its resistance to fracturing upon reaching body temperature.**

WORK OF FRACTURE



ROOM
Temperature: 25 °C



BODY
Temperature: 37 °C

Lucitone Digital Print 3D Denture Base for Partials

New trends in the dental laboratory industry support the use of 3D printing to provide alternative methods to produce partial dentures. 3D printing utilizes medical device materials specifically indicated for use for partial denture appliances. The use of 3D materials, such as Lucitone Digital Print, presents a unique set of benefits and trade-offs in comparison to conventional appliances.



- Fast, digital design process
- Simplified, repeatable fabrication process

Laboratory

- Rapid digital replacement process
- Improved esthetics

Dentist

- Replacement of teeth for a complete esthetic smile
- Greater retention of appliance during mastication

Patient

Increasing Capacity, Throughput & Simplicity

Lucitone Digital Print Denture™ (LDPD) System provides an easy-to-operate, cost-effective way for any lab with a Carbon® M-Series, Asiga MAX™ UV, or Asiga PRO 4K™ printer to scale up production and drive profitability, without sacrificing the material standards established with traditional products.

With an average of 76% labor time saved, LDPD solutions maximize throughput and help manage growing volume demands.

Continuous Growth

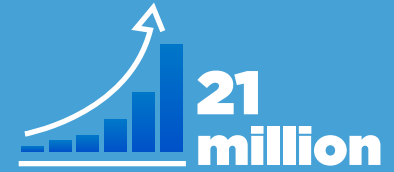
The partial market will continue to grow due to:

- Growth in the elderly population
- Increases in the average lifespan
- Improved oral healthcare

The flexibles subsegment is expected to grow in place of cast metal partials due to patient demand for improved esthetics and a low-cost solution.



of the total denture market (full versus partial) is made up of partial dentures*



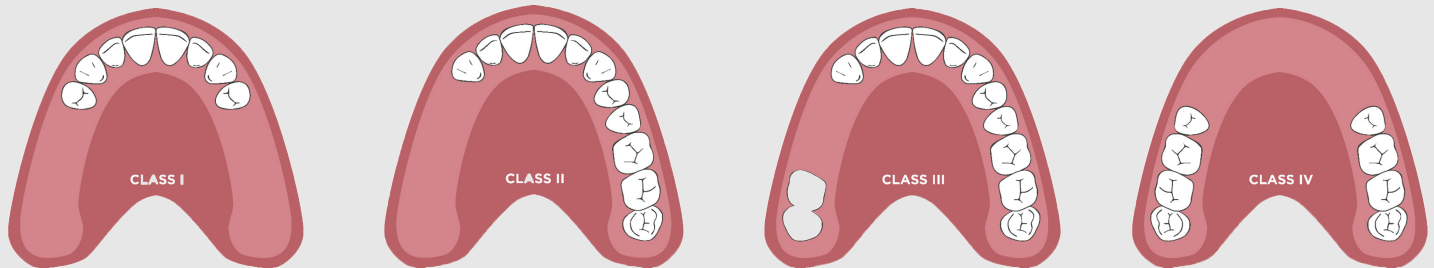
removable partial dentures (RPD) appliances are produced globally each year*



of labor time saved with LDPD solutions

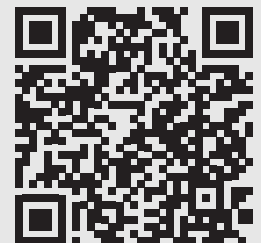
Kennedy Classification System

RPD's are clinically categorized by the Kennedy Classification System (Type 1 - 4). Each of these classifications' present challenges in terms of design, retention, and clasping.



Design Guide for Partial

This laboratory guide can help technicians understand the process steps using 3Shape CAD software for fabricating RPD's utilizing the LDPD system. It's important that laboratories and clinicians engage in dialogue relating to specific case requirements, design approaches, and discover together how 3D printing can unlock capacity, throughput, and simplicity in the lab to meet patient needs.



*U.S. Market Report Suite for Overdentures and Implant Bridges, iData Research, June 2018:29.

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