

Media Release

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Fast, monolithic, predictable

Digital Denture: esthetic complete dentures milled from two discs

Users can now avail themselves of a quick and reliable digital method to create monolithic dentures that are both esthetic and of high quality. Two material discs are at the heart of the process.

Digital Denture is a manufacturing process for the rapid digital production of removable dentures. The process integrates the treatment steps in the dental practice with the digital manufacturing processes in the lab. Exclusive design software and coordinated materials, combined with well-designed manufacturing strategies and the cutting-edge PrograMill milling equipment platform, provide predictable and consistent results.

Successful results with two discs

SR Vivodent CAD is a material for the digital production of teeth and tooth segments. Individual teeth and dental arches can be milled from these DCL discs. The material features a translucent shading and natural fluorescence. Highly esthetic results can be achieved due to the low opacity, combined with an anatomical shape and natural surface design. This discs are available in many different shades.

IvoBase CAD is a denture base material. This PMMA material is known to offer high fracture resistance, durability and a homogeneous quality free of porosities or air bubbles. The denture base is milled from the disc in a single step using digital equipment. IvoBase CAD discs are available in four basic shades. The shade concept is matched to the denture base materials of Ivoclar Vivadent and covers the most popular shades.

Saving valuable time

Digital Denture helps users save time compared with conventional denture fabrication methods. They benefit from shorter manufacturing times, fewer manual working steps and fewer interruptions in the workflow than with conventional procedures. In addition, the need for creating and articulating stone casts is eliminated. Model analysis and tooth setup can be completed in considerably less time than with conventional methods. Digital Denture covers the following indications: complete dentures (upper and lower jaw), single-arch complete dentures (upper or lower jaw), duplicate complete dentures and immediate complete dentures.

Simple, innovative workflow

The denture base and the dental arch are milled using digital technology. An innovative procedure is used for this purpose: In a first step an oversize dental arch is milled. Only the basal surfaces show a precise fit from the very start. Once the dental arch has been bonded to the denture base quickly and easily, the denture is milled to its final dimensions using precision milling. Excess bonding material is removed in the process. A patent application has been filed for this procedure.

Predictable and efficient

All manufacturing steps are coordinated with each other. The user is guided through the entire process. Since the process is validated, sources of error can be virtually ruled out. This leads to increased process reliability, stable, predictable and controllable results and

standardized quality. Satisfied users and patients are the likely outcome. The dentures are extremely fracture resistant and easy to clean as they are free of interdental gaps.

Basic or premium version?

In addition to the basic version, an upgrade to the premium version Digital Denture Professional is offered. This option allows users to create dentures with especially high quality attributes, for instance by using prefabricated artificial teeth.

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Captions:

(Digital_Denture1.jpg)

Fig. 1: Digital Denture: esthetic complete dentures milled from two discs

(Digital_Denture2e.png)

Fig. 2: Fast process: complete dentures in only five steps.

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