

Zirkonzahn[®]

Human Zirconium Technology

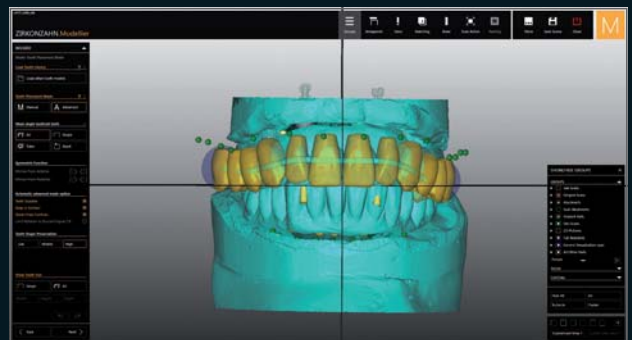
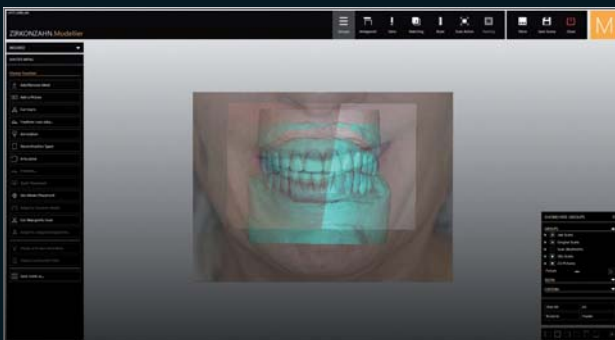


MULTISTRATUM[®] FLEXIBLE

Long-Term Provisional with Multicolor Shading

MAXILLARY AND MANDIBULAR MULTISTRATUM® FLEXIBLE TEMPORARY RESTORATIONS ON IMPLANTS

The following depicts a full-mouth temporary prepared for a U.S. Vietnam veteran (aged 69), who suffered from a deteriorating dental condition after his cancer treatment (pain, difficulty maintaining oral hygiene). A thorough analysis indicated the existing dentition was not worth preserving. The dentist extracted the remaining teeth and placed four implants in the upper and lower jaw of the patient. After the healing phase, our dental laboratory was entrusted with the task of providing the patient with two full-arch resin structures as temporary prosthetic restorations. The basis for fabricating these structures were 2D extraoral photographs, articulated implant models and a temporary situation prepared by the dentist. With the S900 ARTI scanner we digitized the models using Zirkonzahn scanmarkers to detect the implant position and axial inclination. During the subsequent virtual design in the Zirkonzahn.Modellier software, this data served as the basis for planning. After creating a virtual setup, the CAD design was nested in a block of Multistratum® Flexible. The thermoplastic Multistratum® Flexible resin is characterized by a multicolor shading to reproduce the color gradient of natural teeth. The incisal edges and occlusal surfaces were positioned higher in the disc towards the lighter layer, whereas the cervical area were kept in the darker layers. After milling the structure in the M4 Wet Heavy Metal milling unit, the provisionals were elaborated by hand. Due to the natural translucency gradient, only a few steps were required to achieve a natural aesthetic result: separation of the connectors, creation of a natural surface morphology, incorporation of retentions for gingiva layering and surface polishing.



AESTHETIC AND STABLE LONG-TERM RESTORATION

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MULTISTRATUM® FLEXIBLE

- *Highly flexible; low fracturing risk*
- *High durability*
- *Favorable processing qualities*
- *Bicompatibility; no residual monomers*
- *Unique aesthetic properties due to multicolor shading from dentine to enamel*
- *Ideal for manufacturing durable provisionals and prototypes*

HUMAN ZIRCONIUM TECHNOLOGY

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