

Zirkonzahn[®]

Human Zirconium Technology

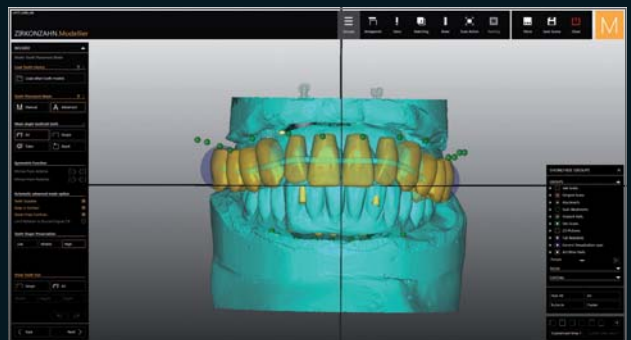
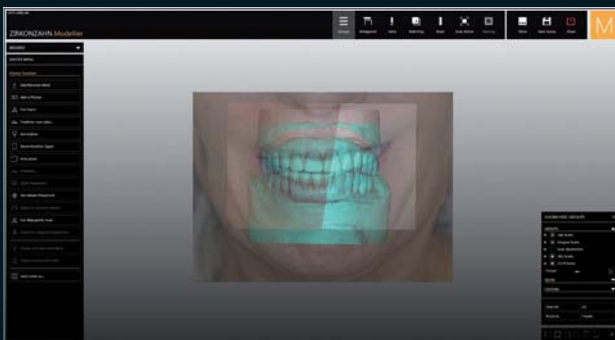


MULTISTRATUM[®] FLEXIBLE

Provisional with multicolour shading

RESTORATION MADE OF MULTISTRATUM® FLEXIBLE ON UPPER AND LOWER JAW IMPLANTS

In the following, the case of a US Vietnam veteran (aged 69) is described who suffered from a deteriorating dental condition after his cancer treatment (pain, difficulty maintaining oral hygiene). After a thorough analysis, the dentist decided that the teeth were not worth preserving and he extracted the whole dentition. The dentist placed four implants in the upper and lower jaws of the patient. After the healing phase of the implants, 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 the fabrication of these structures were 2D patient photographs, the implant models in the articulator and a temporary restoration prepared by the dentist. In the S900 ARTI scanner the digitisation of the model was carried out; Zirkonzahn scanmarkers were used to detect the implant position and the axial inclination. During the subsequent virtual modelling of the two full arch bridges in the Zirkonzahn.Modellier software, these data served as the basis for planning. After completion of the planning phase, the 3D design was virtually nested in a material block made of Multistratum® Flexible. As the thermoplastic Multistratum® Flexible resin is composed of many layers of material that reproduce the natural tooth colours, the incisal edges and occlusal surfaces were positioned in the area of the lightest material layer during nesting, while the contact surfaces with the gingiva were positioned in the darkest one. After milling the structure in the M4 Wet Heavy Metal milling unit, it was elaborated manually. Due to the natural colouring of the teeth, 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 polishing of all surfaces.



AESTHETIC AND STABLE LONG-TERM RESTORATION

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MULTISTRATUM® FLEXIBLE

- *Highly flexible, the risk of fracturing is greatly reduced*
- *High durability*
- *Favourable processing qualities*
- *Biocompatible, without residual monomers*
- *Unique aesthetics thanks to the multicolour shading from dentine to enamel*
- *Ideal for the manufacturing of long-term provisionals and prototypes*
- *With up to 10 years of oral durability*

HUMAN ZIRCONIUM TECHNOLOGY

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