Zirkonzahn®

Human Zirconium Technology

PRETTAU® 2 DISPERSIVE® HYBRID RESTORATION

The Zirkonzahn Culture

Zirkonzahn®

HYBRID RESTORATION ON A ZIRCONIA BAR AND PRETTAU® 2 DISPERSIVE® CROWNS

Due to atrophy, the existing implants in the mandible had to be extracted and new implants had to be placed. During the healing phase, the patient was provided with a temporary restoration. The final restoration was intended to be a frictional hybrid resin restoration with a zirconia bar made of ICE Translucent and crowns made of Prettau® 2 Dispersive®. The zirconia bar was used for fixing the superstructure. The patient situation was digitised with the intraoral scanner and with the Face Hunter 3D facial scanner. The obtained data was then matched in the software with the individual patient planes captured with the help of the PlaneSystem® (Udo Plaster, MDT). This served as the basis for a first virtual tooth set-up. The set-up was provided with individual occlusion patterns and gingival areas using the virtual articulator. Based on this, the zirconia bar with titanium bases was manufactured. The parallelised zirconia bar on the model was digitised and used as the basis for creating a friction coping made from Tecno Med. In order to check function and aesthetics of the planned mandibular restoration in situ, an aesthetic resin prototype was fabricated first and anodised titanium bases were bonded into the zirconia bar. After the try-in, the digital situation was used for the fabrication of the final restoration. The final tertiary structure was designed with dies and adapted to the friction coping. The individual teeth have been designed fully anatomical on the basis of the tooth set-up. All components as well as the sealing screws for the screw channels of the bar could be milled in the M2 Dual Wet Heavy Metal milling unit. Then the finalised individual teeth made of pre-shaded Prettau® 2 Dispersive® and the friction coping were bonded to the resin structure made of Tecno Med Mineral Dentine and integrated with friction into the patient's mouth.

100 % MONOLITHIC DESIGN, VENEERED ONLY IN THE GINGIVAL AREA

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Zirkonzahn®

NEW! PRETTAU® 2 DISPERSIVE®

- *Pre-coloured zirconia with a natural colour gradient, optimal flexural strength and particularly high translucency*
- *No limitations! Ideal for monolithic full arch bridges, but also for single crowns, inlays, onlays, veneers, bars and multi-unit bridges (reduced or monolithic)*
- *No ceramic chipping (thanks to monolithic design), no abrasion of the antagonist*
- *Can be characterised individually for each patient with Colour Liquid Prettau® 2 Aquarell intensive colours, ICE Zirkon Ceramics and ICE Zirkon 3D Stains by Enrico Steger*

HUMAN ZIRCONIUM TECHNOLOGY

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NEW! M2 DUAL WET HEAVY METAL MILLING UNIT

FLEXIBLE TWO-CHAMBER MILLING UNIT FOR SEQUENTIAL WET AND DRY PROCESSING WITHOUT IN-BETWEEN CLEANING

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