

Zirkonzahn[®]

Human Zirconium Technology



100% PRETTAU[®] ZIRCONIA – MADE BY CAD/CAM

“Perfection through perseverance” Enrico Steger

Occlusally screw-retained Prettau® bridges on six maxillary titanium bases and four mandibular implants with a titanium bar

The patient situation was scanned by MDT Udo Plaster using the PlaneSystem® and replicated in an articulator. The first trial set-ups were sent, along with the casts, to Dentallabor Steger for implementation and scanned there. The try-ins were used as the diagnostic cast, and a titanium bar was designed as a reinforcement for the extended cantilevers. The titanium bar was milled in the M1, refined in the parallelometer and polished to a high lustre. After re-scanning the bar, the superstructure was adjusted based on the new situation and modelled. The maxilla, too, was modelled according to the situation and the occlusion tested against the mandibular situation. The work was milled in Prettau® Zirconia and then finished. Cutbacks were made at the front and in the gingival areas. The two Prettau® bridges were stained, dried and sintered in the Zirkonofen 700. Then the restorations were re-fitted on the model, and the occlusion was adjusted by removing premature contacts. The cutback areas on the labial surfaces of the anterior teeth and the gingiva were veneered with ICE Zirkon Ceramics. The final characterization was carried out by applying ICE Zirkon 3D Stains by Enrico Steger and glazing. To reduce their grey value, the titanium bar and bases were anodized to a golden colour using Titanium Spectral-Colouring Anodizer. Finally, the bonding surfaces of the zirconia structures were air-abraded, steam-cleaned, wetted with primer and bonded.



The Prettau® Bridge

Prof. Dr. Wael Att – University Medical Center Freiburg, Germany

MDT Udo Plaster – Plaster Dental-Technik GbR Nürnberg, Germany – Provisionalization and articulator set-up

MDT Georg Walcher – Zirkonzahn Education Center Brunico, South Tyrol (Italy)



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HUMAN ZIRCONIUM TECHNOLOGY

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Milled with the CAD/CAM System I-TEC Wet Heavy Metal



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All information is subject to change. Errors and omissions excepted. Version: 26/06/2015