Zirkonzahn®

Human Zirconium Technology

PRETTAU® 2 ZIRCONIA – MADE BY CAD/CAM

"Zirconia needs heroes" ***Enrico Steger***

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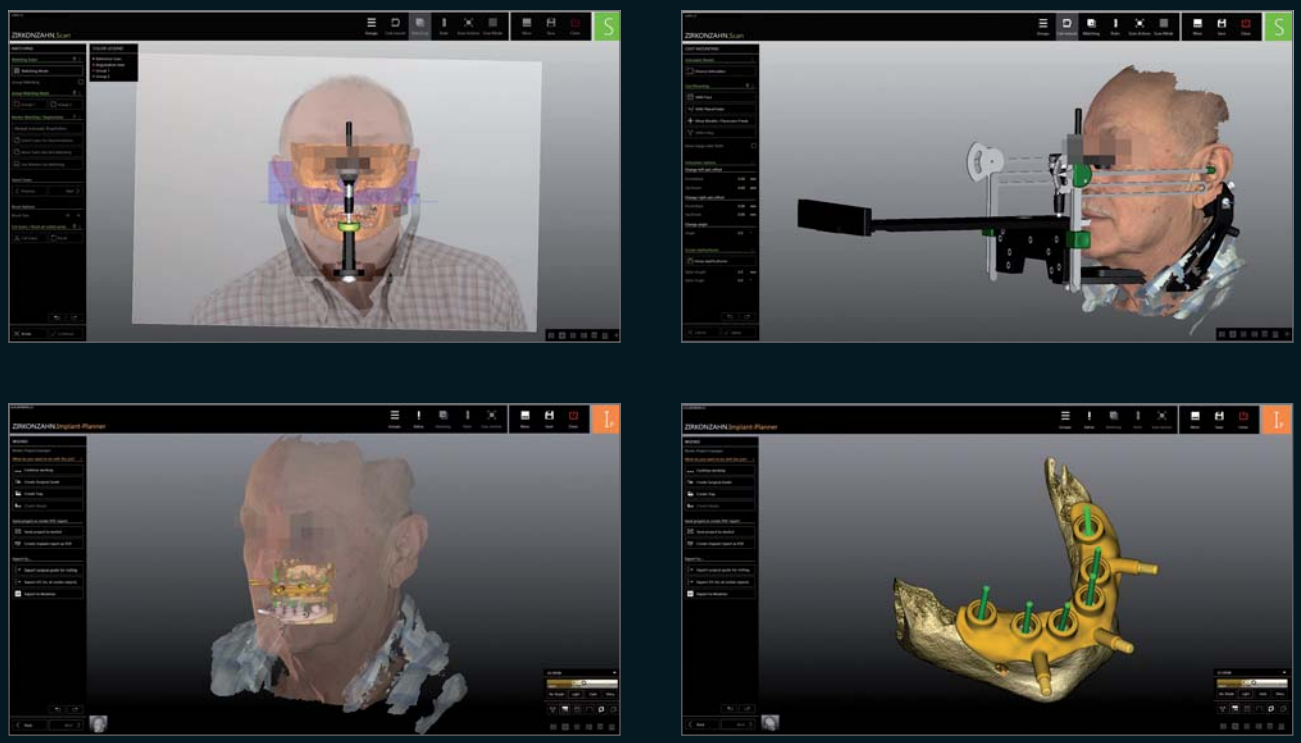
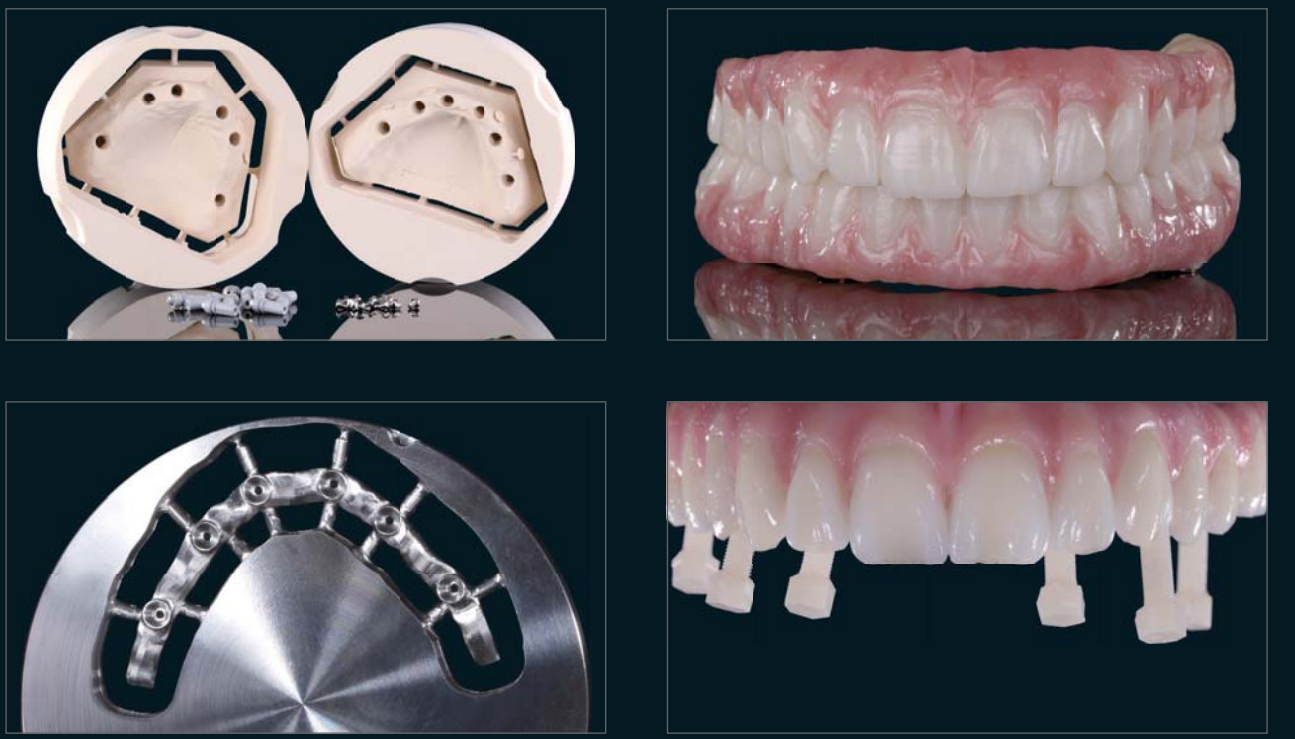
DIGITAL WORKFLOW: IMPLANT-SUPPORTED COMPLETE REHABILITATION USING PRETTAU® 2

The edentulous patient wearing conventional, removable prostheses presented himself to the dentist with the request for a fixed, high-quality dental restoration. The treatment team agreed on an implant-supported maxillary and mandibular restoration made of Prettau® 2 zirconia with a stabilising titanium bar in the mandible. The ideal solution in such cases is backward-planning which takes the final restoration into account already during the implant planning phase. First, the individual patient data (NHP with PlaneSystem®, intraoral scanner) and the patient's jaw movements (Plane Analyser) were detected and transferred into the software together with the 3D face scans (Face Hunter). The worn prostheses were provided with radiopaque spheres for CT images. Based on all digitally assembled data and taking the bone structure into account, the dentist determined the optimal implant position in the Zirkonzahn.Implant-Planner software. Surgical guides, models with analogues and temporary restorations were then designed and milled in resin in the dental lab. After the healing phase, the patient situation for the fabrication of resin prototypes, which later served as reference for the design of the final restoration, was digitised again with the intraoral scanner. In order to check the intraoral scans, aluminium bars and prototypes have been milled and tested using the virtual set-ups. After obtaining a positive result, temporary restorations made of high-performance Multistratum® Flexible resin have been fabricated and veneered with Gingiva-Composites. The natural tooth set "AIDA" from the Heroes Collection virtual tooth library has been selected for the aesthetic design of the teeth. After a longer wearing period, the temporary restorations were used as a reference for the final restorations made of Prettau® 2. These were milled in the M1 Wet Heavy Metal milling unit, like the titanium bar for the mandibular. Prettau® 2 zirconia combines extraordinary flexural strength with excellent translucency. Therefore, apart from the anterior region, ceramic layering could be completely avoided. Before inserting the restoration in the patient's mouth, the titanium elements were anodised in colour and bonded with the Prettau® 2 zirconia structures.

Everything individual: patient-specific colouring thanks to the manual colouring with Colour Liquids Prettau® 2 Aquarell



Everything digital: measurement and articulation of the patient as well as planning of the implant positions



Everything CAD/CAM milled: models, prototype, titanium bar, zirconia structure with threaded screw channels and sealing screws

Everything ready: Prettau® 2 structures with bonded anodised titanium elements

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DIGITALLY MANUFACTURED

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NEW! PRETTAU® 2

- *Particularly highly translucent zirconia with an excellent flexural strength*
- *No limitations! Especially suitable for full arch restorations (full anatomical or reduced for ceramic veneering), but also for single crowns, inlays, onlays, veneers, bars and multi-unit bridges*
- *No ceramic chipping (thanks to the fully anatomical design), no abrasion of the antagonist*
- *Can be characterised individually for each patient with Colour Liquids Prettau® 2 Aquarell, ICE Ceramics and ICE Stains 3D by Enrico Steger*
- *Available in a polychromatic version, with natural colour transition (Prettau® 2 Dispersive®)*

HUMAN ZIRCONIUM TECHNOLOGY

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PRETTAU®	PRETTAU® 2	PRETTAU® 3	PRETTAU® 4 ANTERIOR®
T1	T2	T3	T4
COLOUR LIQUID	DISPERSIVE®	DISPERSIVE®	DISPERSIVE®

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