

Zirkonzahn[®]

Human Zirconium Technology



PRETTAU[®] 3 DISPERSIVE[®]

The Zirkonzahn Culture

PRETTAU® 3 DISPERSIVE® ZIRCONIA STRUCTURE ON ANODISED TITANIUM BAR

Available data:

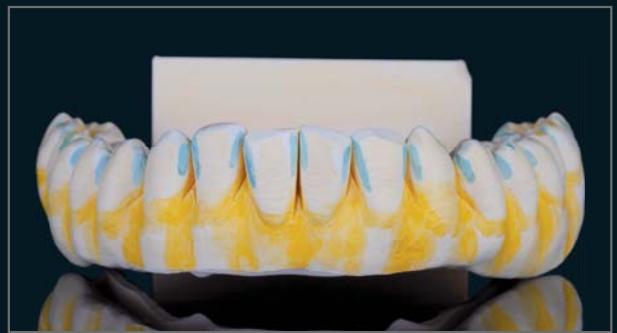
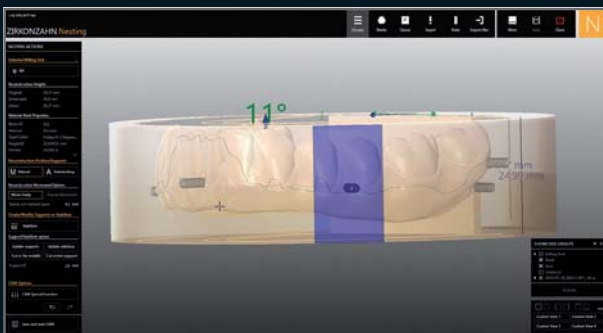
Photos, 3D facial scan data, digital oral situation, digitised master models

Planned restoration:

Full arch bridge for the mandible made of Prettau® 3 Dispersive® zirconia on anodised titanium bar

Realisation:

- *Digital mounting of the oral situation with Face Hunter 3D facial scanner and PlaneSystem®*
- *Initial virtual tooth set-up with Zirkonzahn.Modifier, individualisation of tooth shapes with selection from Heroes Collection virtual tooth library*
- *Titanium bar design in the Zirkonzahn.Modellier software using the planned restoration as a situ scan; milling and digitisation of the titanium bar, adaptation of the planned lower jaw zirconia structure*
- *Positioning of the structure in Zirkonzahn.Nesting: the colour gradient visualisation of the Prettau® 3 Dispersive® Gradual-Triplex-Technology provides an optimal alignment of the incisal aspect in the highly translucent blank area and the cervical area in the high strength region*
- *Milling of the Prettau® Bridge in the M2 Dual Teleskoper milling unit and sintering at 1500°C*
- *Glazing with 3D Base Glaze and characterisation with ICE Stains 3D by Enrico Steger*
- *Minimal veneering of the gingiva (0.4–0.5 mm) with Fresco Gingiva ceramic pastes; firing at 790°C in the ceramic furnace; slight polishing*
- *Anodisation and cementation of the titanium bar in the zirconia structure; final colour check with the Zirkonzahn Individual Shade Guide Tooth 11*



100 % MONOLITHIC DESIGN, VENEERED ONLY IN THE GINGIVAL AREA

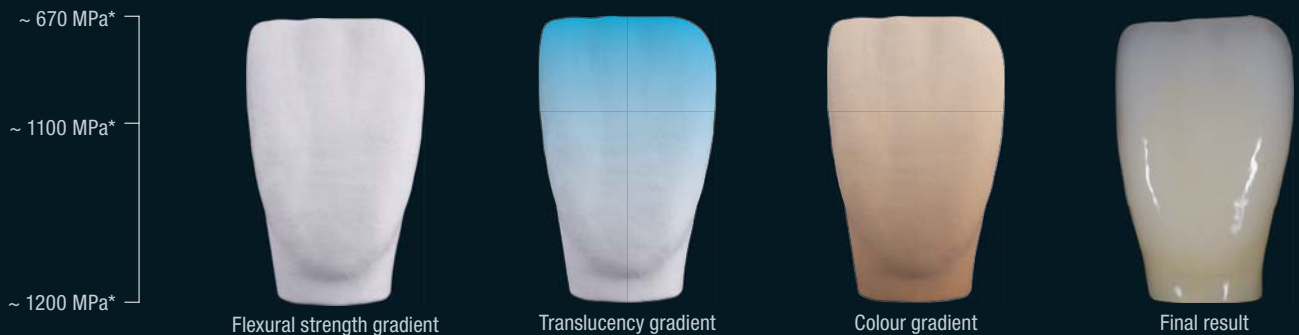
DT Alexander Lichtmannegger – Zirkonzahn Education Center Brunico, South Tyrol, Italy





NEW! PRETTAU® 3 DISPERSIVE® WITH GRADUAL-TRIPLEX-TECHNOLOGY

- Already during the manufacture of the material are worked into colour, translucency and flexural strength:
 1. Cervically increasing flexural strength; extremely high flexural strength at the neck of the tooth
 2. Incisally increasing translucency; highly translucent incisal edge
 3. Natural colour gradient from dentine to enamel
- Indicated for reduced or monolithic single crowns, inlays, onlays, veneers and bar-supported multi-unit bridges; especially suitable for monolithic design
- No ceramic chipping (thanks to monolithic design); fast sintering of single crowns possible
- Can be characterised individually for each patient with Colour Liquid Prettau® Aquarell Intensive, ICE Ceramics, Fresco Ceramics and ICE 3D Stains by Enrico Steger



* Average value of the biaxial flexural strength from several test series

HUMAN ZIRCONIUM TECHNOLOGY

Zirkonzahn Worldwide – Tel +39 0474 066 680 – info@zirkonzahn.com – www.zirkonzahn.com

NEW! 1 ORBIT – 4 DIAMETERS 125, 106, 98 AND 95 mm

M2 MILLING UNIT COMFORT LINE, WITH EXTRA LARGE TELESKOPER ORBIT. FULLY AUTOMATIC, FLEXIBLE, VIBRATION-FREE

