

Zirkonzahn[®]

Human Zirconium Technology



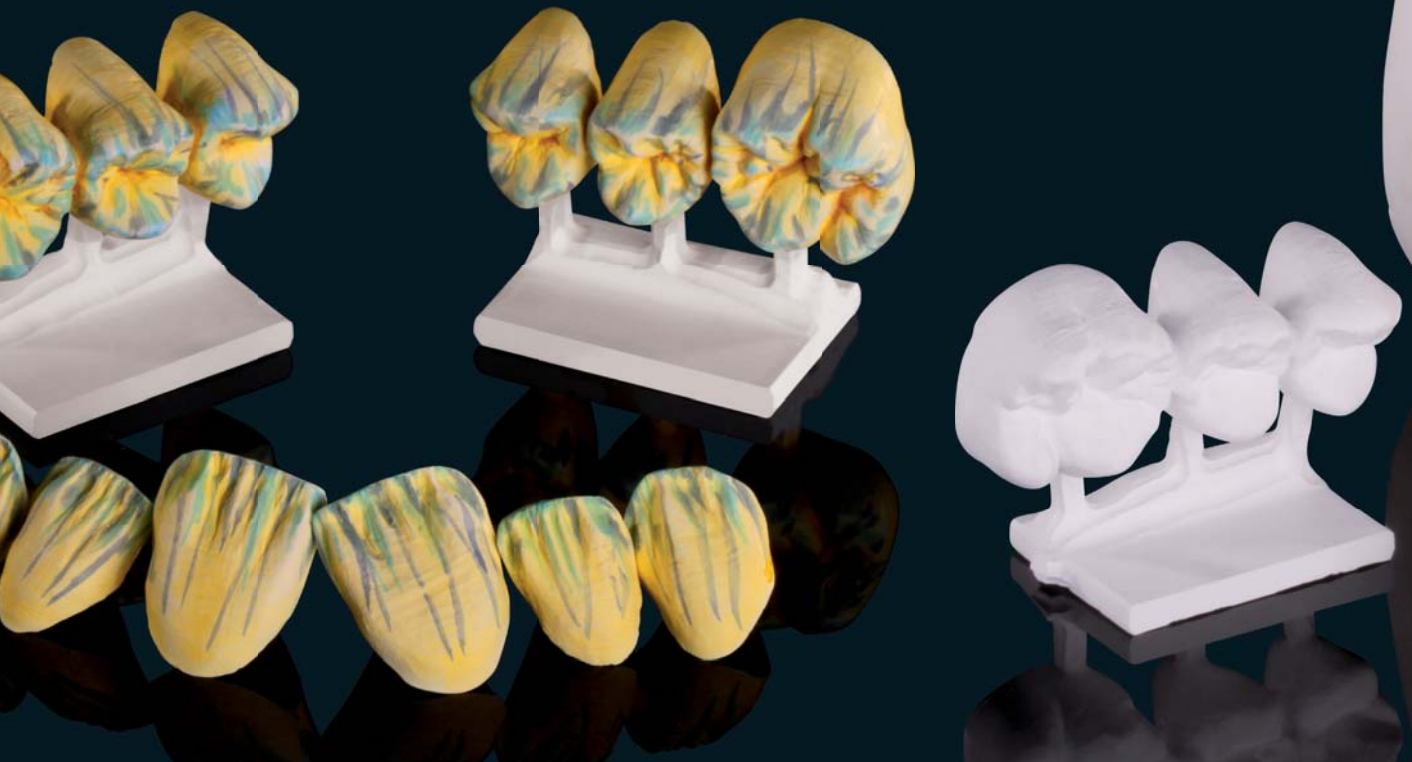
100% AESTHETICS – MADE BY CAD/CAM

“Perfection through perseverance” Enrico Steger

COMPLETE MAXILLARY ARCH REHABILITATION ON TELESCOPIC CROWNS

This case report describes the step-by-step production of a friction-retained maxillary arch on telescopic implant crowns. In the first step of the treatment, we scanned the model with Scanmarkers to determine the implant indexing. The subsequent working steps were dedicated to the creation of the telescopic crowns and friction copings. First, we digitally designed the four telescopic crowns in zirconia, which were then milled, sintered and bonded to anodised titanium bases. Then, we designed and milled friction copings in Tecno Med, calibrating the desired friction during the nesting phase. Once the friction copings were applied to the telescopic crowns, we scanned the model again to digitally plan and design reduced wax-ups in Tecno Med Mineral.

Next, we designed anatomic teeth using the AIDA tooth set from the Heroes Collection virtual library. For the six anteriors, we selected single crowns with the "FIRE" digital cut-back, while molars and pre-molars were splinted together using connectors. The teeth were milled using the highly translucent Prettau® 4 Anterior® zirconia, coloured with Colour Liquid Prettau® 4 Anterior® Aquarell and then sintered. After layering the reduced teeth with ceramics, we stained the teeth with ICE Zirkon 3D Stains by Enrico Steger and proceeded with the final firing. Subsequently, we cemented the bridges and the crowns on the Tecno Med Mineral structure and applied composites on the gingival area. Once the composite was carefully polished, we concluded our work with the cementation of the Tecno Med friction copings into the Tecno Med Mineral structure.



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