

Zirkonzahn®

Human Zirconium Technology

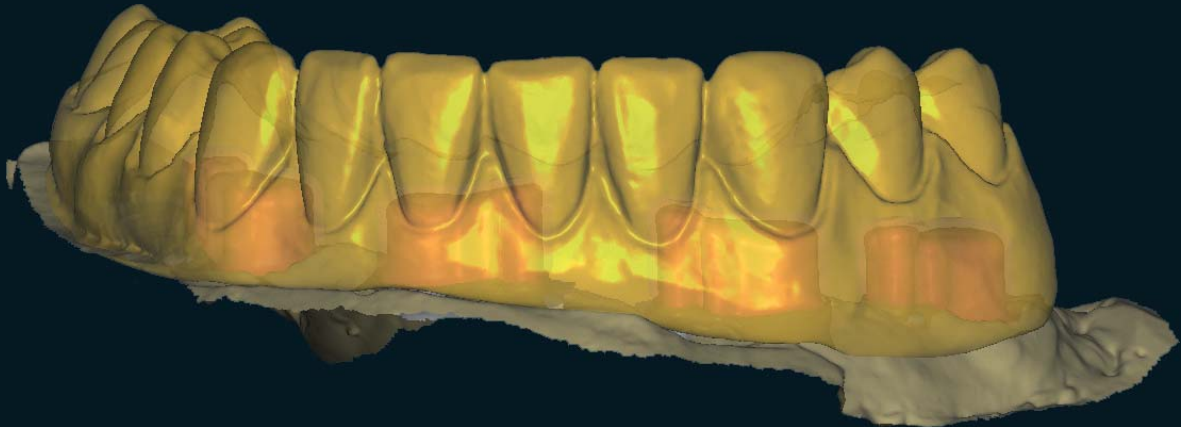


NEAT*

100 % Prettau® Zirconia

This mandibular restoration in Prettau® Zirconia was mounted on 4 Straumann RN implants in areas 44, 41, 32 and 35. Using the libraries contained in the software module Telescopic crowns and attachments, several telescopic crowns were built and then coupled with titanium bases, complete with mesially and distally positioned attachments; the resulting virtual model was milled out of Prettau® Zirconia. After sintering, the telescopic crowns were milled using 2° and 0° diamond burs with the aid of a parallelometer and ultimately mirror-polished. The assembly consisting of telescopic crowns and attachments is thus the ideal combination for distributing the masticatory and thrust loads, and is also an interchangeable friction element. Subsequently, the milled telescopic crowns and attachments were scanned using the wax-up/situ/mirror imaging software module which enables the user to correctly position the virtual surface of the previously scanned secondary anatomic structure. After the secondary structure was fitted to the primary structure, it was milled out of Prettau® Zirconia using an M5 five-axes milling machine. Throughout this complex process, the only manual procedure performed by the dental technician was layering the area around the front teeth and the gums with ceramic. Finally, the entire structure (including the base area) was mirror-polished using diamond-silicone rubber polishers.

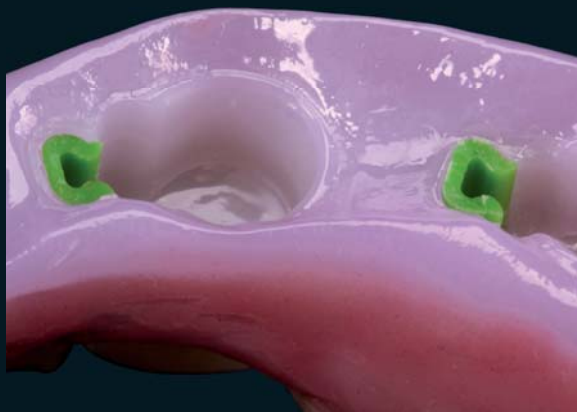
Software modules used: occlusally screwed bridges, telescopic crowns, wax-up/situ/mirror imaging, abutment, Prettau® (full anatomic), attachments



The Prettau® Bridge

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Zirkonzahn®



HUMAN ZIRCONIUM TECHNOLOGY

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Milled with Zirkonzahn CAD/CAM System 5-TEC