

**Zirkonzahn<sup>®</sup>**

*Human Zirconium Technology*



**MOCK-UP**

*Made by CAD/CAM*

## THE MULTIFUNCTIONAL, AESTHETIC BITE SPLINT

**Initial situation:** The 42-year-old patient suffers from a severe case of bruxism. Enamel and dentine are severely abraded throughout the entire dental region, in the anterior region parts of the teeth have chipped off. Due to the pressure caused by the bruxism, the vertical tooth dimension has been reduced, thus causing a dysfunctional occlusion. The tooth structure did not present any pathological anomalies.

**Solution approach:** First of all, a multifunctional, aesthetic bite splint was planned for the stabilisation of the occlusion. The bite splint should combine several aspects: in addition to the relaxation of the masticatory muscles by eliminating the interfering contacts, the bite splint should also help to define the new occlusion and help the patient get used to it. Since the patient was suffering from poor dental aesthetics, he also wanted an aesthetic solution. That also served as an estimate for the final restoration. Intraoral and extraoral aesthetic characteristics as well as functional aspects like the natural occlusal plane, or the dental and skeletal midline, have been captured and transferred into the software in the correct position with the PlaneSystem® and the Face Hunter 3D facial scanner. Based on the determined new planes, the teeth have been selected from the Heroes Collection virtual tooth library and have been set up. Aesthetics and function of the bite splint have been checked in the virtual articulator by taking into account all available data (intraoral, Dicom, 3D scans). The multifunctional bite splint has been milled with the M5 Heavy Metal milling unit out of Multistratum® Flexible, a long-lasting high performance resin with natural colour gradient, and has been placed in the patient's mouth.



# 100% AESTHETICS

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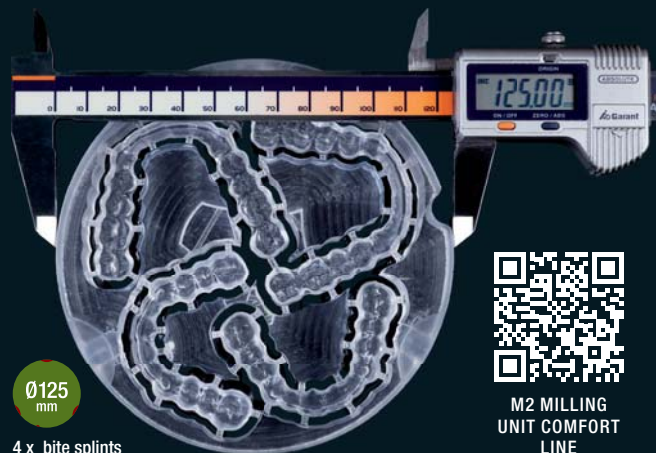
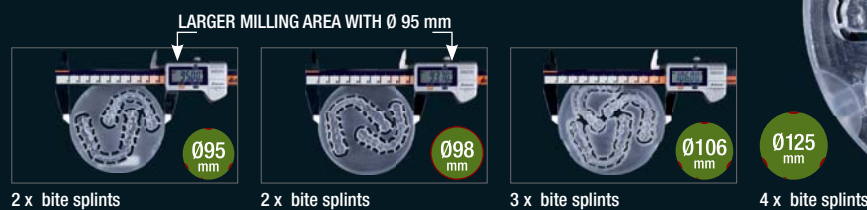


## HUMAN ZIRCONIUM TECHNOLOGY

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



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