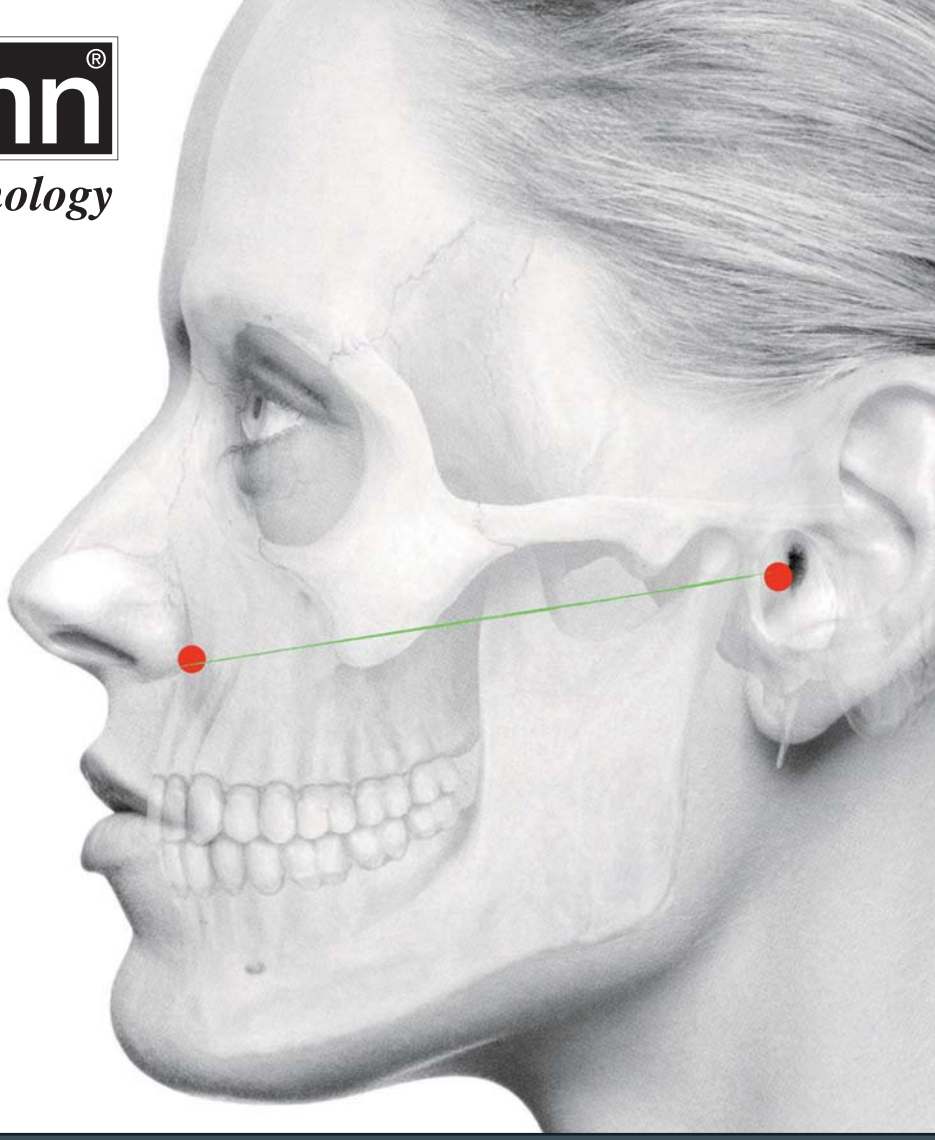
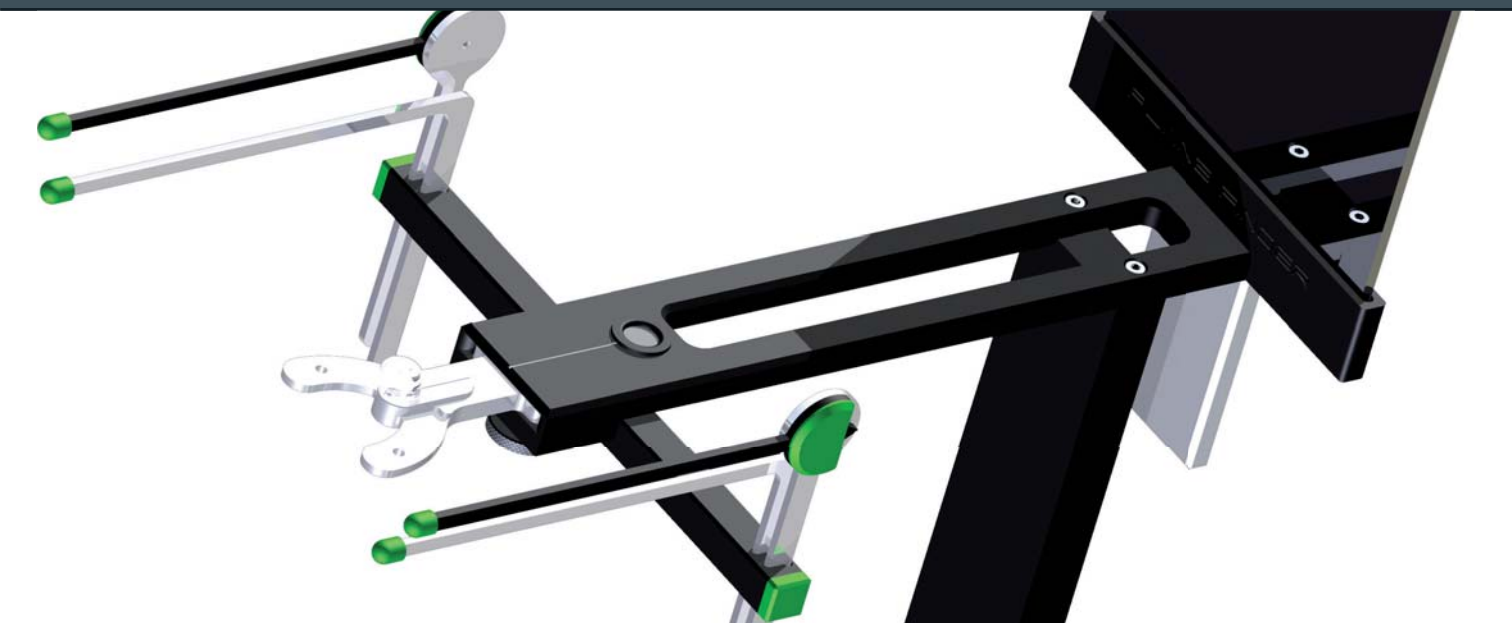
Zirkonzahn®

Human Zirconium Technology



PLANESYSTEM®

The functional and esthetic analysis of the patient



Zirkonzahn®

ACCURACY AND EFFICIENCY

When planning and manufacturing a dental restoration, the PlaneSystem® allows to determine the patient's maxilla position and to transfer the data into the articulator. State-of-the-art technologies offer extraordinary possibilities in this field, permitting the registration of the patient's complete oral situation, validated through defined parameters. In this way, the communication between patient, dentist, orthodontist and dental technician is also greatly simplified.

PlaneSystem® – developed by MDT Udo Plaster, in cooperation with Zirkonzahn

THE NATURAL HEAD POSITION (NHP)

The Natural Head Position is a reproducible orientation that a person assumes using the eyes, neck muscles and vestibular system, that implies that the visual axis is horizontal. This position can be reproduced at any time, for example just by looking at oneself in a mirror.

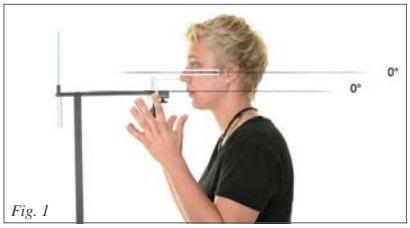


Fig. 1


Fig. 2

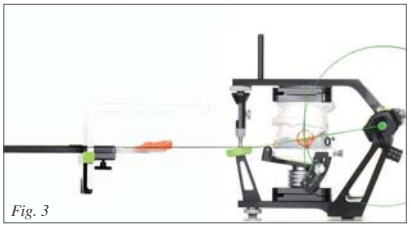


Fig. 3

OCCLUSAL PLANE

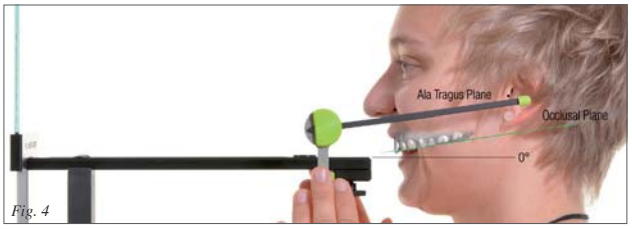


Fig. 4

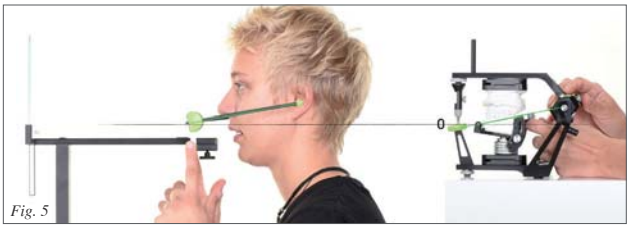


Fig. 5

INDIVIDUAL REFERENCE PLANES AND ZIRKONZAHN.MODELLIER / ZIRKONZAHN.MODIFIER

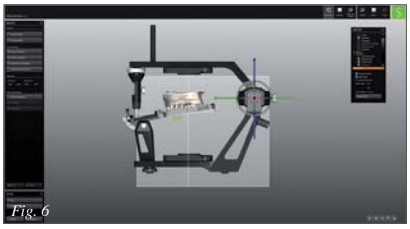


Fig. 6

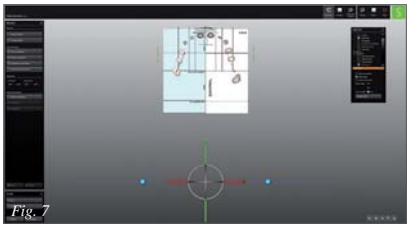


Fig. 7

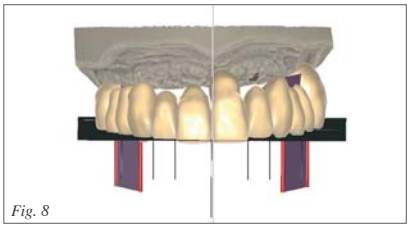


Fig. 8

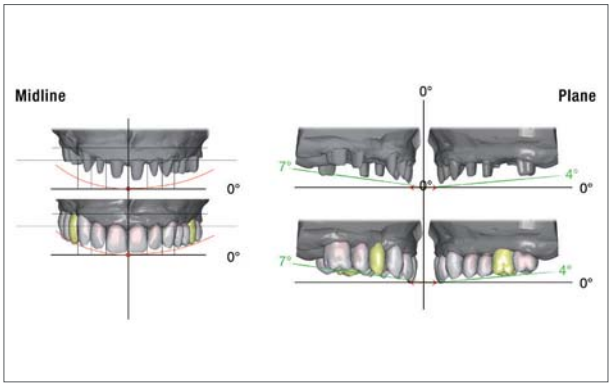
THE COMPONENTS

PLANEFINDER®

The PlaneFinder® is capable of identifying a reference level (zero-degree line), regardless of any asymmetries of the skull (Fig. 1). Based on this reference level, it is possible to register the natural position of the maxilla in NHP and to measure the angle of inclination of the occlusal plane with reference to the ala-tragus line (Fig. 5). The PlaneFinder® is also used for the photographic documentation of the initial clinical situation and its subsequent developments.

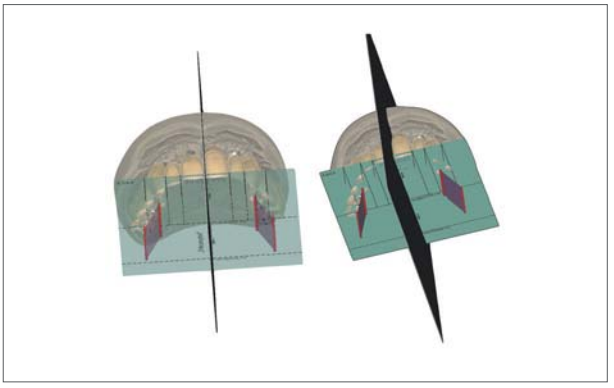
PLANEPOSITIONER® AND PS1 ARTICULATOR

In accordance with the position registered by the PlaneFinder® (Fig. 2), the maxillary model is placed on the PlanePositioner® whereby the natural position of the maxilla is reproduced. Subsequently, the PlanePositioner® is transferred to the physical PS1 articulator (Fig. 3). On the PlanePositioner® it is then possible to represent the individual position and inclination of the occlusal plane determined with the PlaneFinder® (Fig. 5).



INDIVIDUAL REFERENCE PLANES

Through the individual functional planes, it is possible to carry out a functional-esthetic analysis of the patient and the models for the digital design. The software allows for the different inclinations of the occlusal plane to be registered (Fig. 6), to choose the suitable set-up aid for positioning and proportioning of the design (Plaster-planes, Fig. 7) and to register pictures and STL data (Fig. overleaf).



ZIRKONZAHN.MODELLIER / ZIRKONZAHN.MODIFIER

In both design software the maxilla is represented in relation to the recorded NHP and the teeth are aligned automatically with the identified occlusal plane (Fig. 8). With Zirkonzahn.Modifier, both jaws can be made proportional and positioned in appropriate relation according to the patient's anatomical planes, keeping the correct occlusal relation. Based on available images, the teeth can be adjusted to esthetic requirements (Fig. overleaf).

Zirkonzahn®

S900 ARTI SCANNER

- *Fully automated optical structured-light scanner with three high-resolution high-speed cameras*
- *Particularly high scan data density and less rescanning; high scanning precision: ≤ 10 µm*
- *Large scanning area (16:9) for articulator scans and the capture of the entire model in a single scanning process; every kind of lab articulator can be measured and stored in the software*
- *Patient-specific information captured with the PlaneSystem® and with the PlaneAnalyser II, can be 100 % digitized and implemented into the Zirkonzahn.Software*

HUMAN ZIRCONIUM TECHNOLOGY

Zirkonzahn USA Inc. – Phone +1 800 989 8931 – Fax +1 800 699 1813 – infousa@zirkonzahn.com
Zirkonzahn Worldwide – Phone +39 0474 066 680 – info@zirkonzahn.com – www.zirkonzahn.com

FACE HUNTER

- *Scanner for photo-realistic 3D digitalisation of faces as a working basis for the manufacture of individualized dental prostheses*
- *Fast scans*
- *Intuitive operation: one-click scanning*
- *Adaptation of the dental restoration to esthetic requirements*