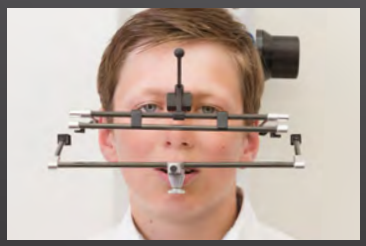
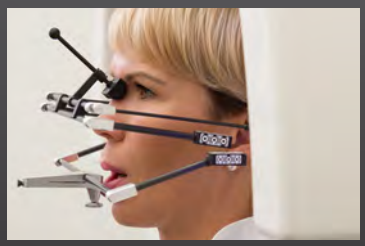
Freecorder® Nxt

Precision in function

Digital functional analysis

Easy recording of jaw relation and dynamic occlusion, flawless 3D planing and simulation





orangedental
premium innovations
DDI inside

Universally applicable in dentistry and with professional interface to dental technology

01 PROTHETICS

Custom-fit dentures with functional occlusal surfaces taking dynamic into account.

02 DENTAL LABS

Improved results in prothetic and orthodontic therapy as well as (new) customer loyalty via services.

03 ORTHODONTICS

Ensuring an anatomically-physiologically correct condylar position during and after orthodontic therapy

04 IMPLANTOLOGY

Increased safety due to the consideration of dynamic occlusion and the inclusion of Freecorder® Nxt data in "backward planning".

05 GNATHOLOGY

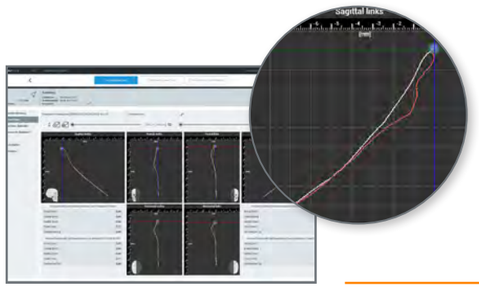
Reliable and fast diagnostics as well as support in the therapy of craniomandibular dysfunctions (CMD) with analog or digital 3D repositioning of the condyles and determination of the correct occlusal plane.

Simple, fast, precise results

Jaw relation recordings are always a special challenge for practitioners, whether in functional diagnostics or in the fabrication of prosthetic restorations.
The Freecorder® Nxt, an opto-electronic, patented recording device for recording the patient's individual jaw movements and the individual bite position, provides all the necessary information with high precision. Both movement and position data can be integrated into the workflow - analogue or digital - in XML format.

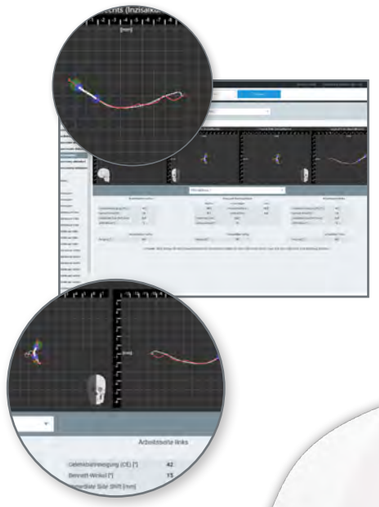
Use in the analogue work process

The software outputs the settings for the individual programming of common Arcon articulators and the Fast-Link® mounting table, which ensures the hinge-axis-related transfer of the models into the articulator, via a technical data sheet.



The new software byzz® Motion

- ... combines contemporary appealing optics with anintuitive user interface,
- ... shines through simplified patient management
- ... allows the export and import of data.



Joint space evaluation

The visualization of the 3D joint spaces and their therapeutic correction under real-time navigated screen control open up new dimensions in diagnostics and therapy.

Radiation-free

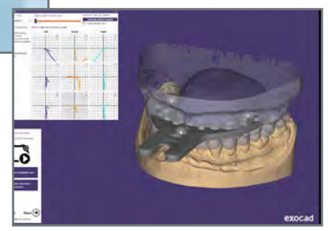
The Freecorder® Nxt records movements opto-electronically with the highest precision and does not use X-rays.

Perfect fit

Possible bite errors are corrected with the help of the computer-assisted repositioner (CAR).

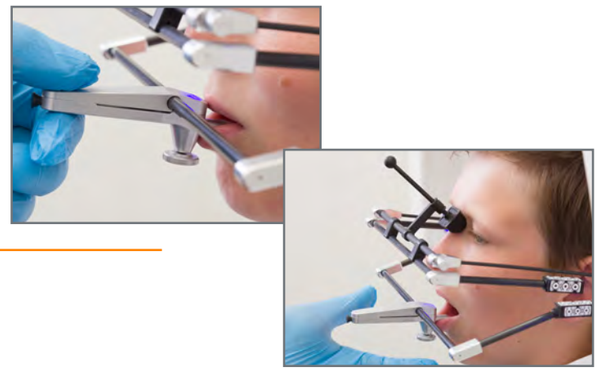
"Digilog"

Motion and position data can be used both in the analogue work process and in the digital workflow.



High-precision

Even fast movements such as jaw joint clicking are recorded accurately thanks to the high recording speed of 100 images per second.



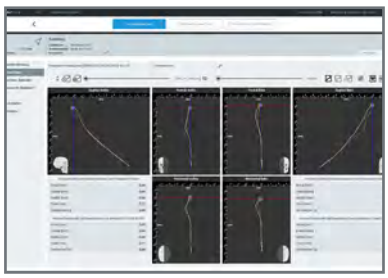
Comfortable

The ultra-light head-mounted reference frame made of carbon is quick and easy to put on like a spectacle frame. The low weight and the cranial fixation prevent neuro-muscular interferenc and thus falsified measurement results.

Optimal integration into the digital workflow

Green X
Endo & Speed Master

EVALUATION



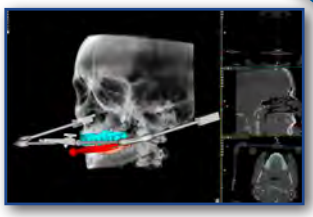
The new software byzz® Motion

3D X-RAY

Thanks to their high geometric precision and the open DICOM interface, the orangedental 3D X-ray units facilitate diagnostics and therapy planning and increase patient compliance.

MOTION DETECTION

The Freecorder® Nxt can be used to digitally record patient-specific movement and position data of the mandible as well as the 3D geometry of the joint spaces. The XML data collected in this way can also be exported via an open interface. (Exocad Jaw Motion)



byzz® Nxt+ byzz® Ez3D-i

enable the fusion of DICOM and STL data as well as the export to open CAD/CAM systems and 3D printers.

freeSCAN Pro

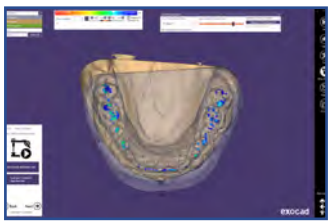
3D-MODELLSCAN

The freeSCAN Pro is an optical model scanner and, thanks to its open interface, enables the anatomically correct bite position to be transferred to the 3D software in the form of STL data.

FUSSEN
by orangedental

INTRAORAL-SCANNER

Attractive, handy, versatile, fast and precise. The Fussen S6000 by orangedental offers a very wide range of clinical indications and impresses with its comfort and handling. It is user-friendly, is convenient for the patient, has compact dimensions, a small handpiece and scan head. Fast scan times and flexible scan protocols make it an indispensable tool when entering the digital workflow.

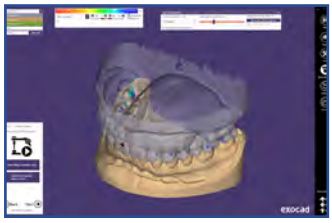


PERFECT FIT

- Prostethic restaurations
- Orthodontic splints
- CMD splints
- Drilling templates
- Paraocclusal temples

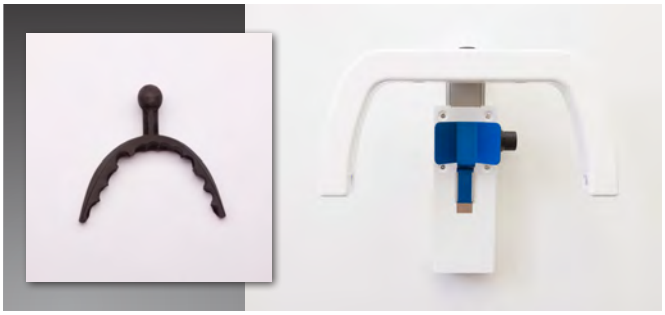
OPEN INTERFACES

- CAD/CAM
- 3D printing
- Laser-Sintering
- Milling
- Stereolithography

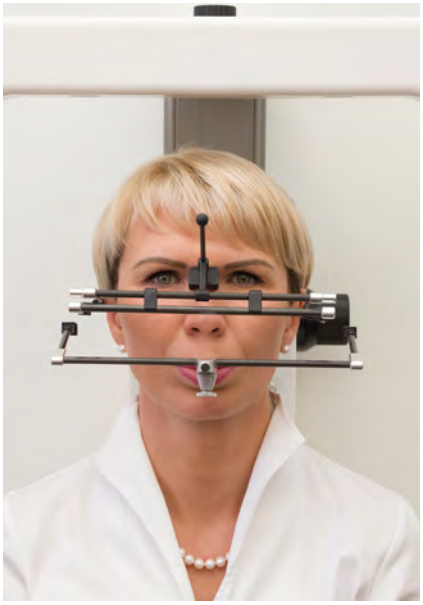


Your benefits

The Freecorder® Nxt registration system allows uncomplicated and rapid recording of patient-specific jaw movements, the individual bite position and the 3D geometry of the joint spaces. The software-supported evaluation of patient-specific values can be used in a variety of ways - in the analogue work process as well as in the digital workflow - for precision-fit restorations, treatments in orthodontics, implantology and prosthetics as well as CMD therapy.



- Minimal preparation time due to simple attachment of the carbon stirrups to the patient - by indidually milled/printed splints or steel bow and silicon fastening
- No radiation exposure due to the use of LED lighting technology
- Simple, fast and precise measurements (e.g.: hinge axis, protrusion, medio trusion) by means an optoelectronical measurement at the condyle region
- High frame rate of 100 Hz (100 frames per second) to capture fast movements such as jaw clicking
- Workflow-based protocols for screening, digital and analog articulator programming, and functional analysis and mastication
- Avoidance of bite taking errors by correct assignment of the upper jaw to the lower jaw by means of the Computer-Assisted-Repositioner (CAR).
- Hinge-axis transfer of the mandible into an Arcon articulator using the FastLink® mounting table
- Fusion of motion data with scan data (STL) and/or optionally with 3D X-ray data (DICOM) and their transfer into CAD software systems such as exocad Jaw Motion



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