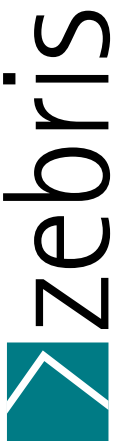


Simple and precise – the zebris
JMA⁺ *analyser* jaw registration system



JMA⁺
Analyser



Welcome to the world of functional dentistry



The zebris jaw registration system **JMA⁺analyser** records all degrees of the lower jaw's mobility contact-free according to the method of measuring the travel time of ultrasound impulses. The measuring range allows functional analytical examinations, the determination of neuromuscular jaw relation as well as the output of parameters for adjustment of mechanical and virtual articulators. The system is prepared for the export of all individual movement data for digital dentistry. The **JMA⁺analyser** is connected to the digital surface data of CAD/CAM or intraoral scanners via patented bite forks. The measuring system consists of a face bow with integrated receiver modules as well as an optimally balanced lower jaw sensor.

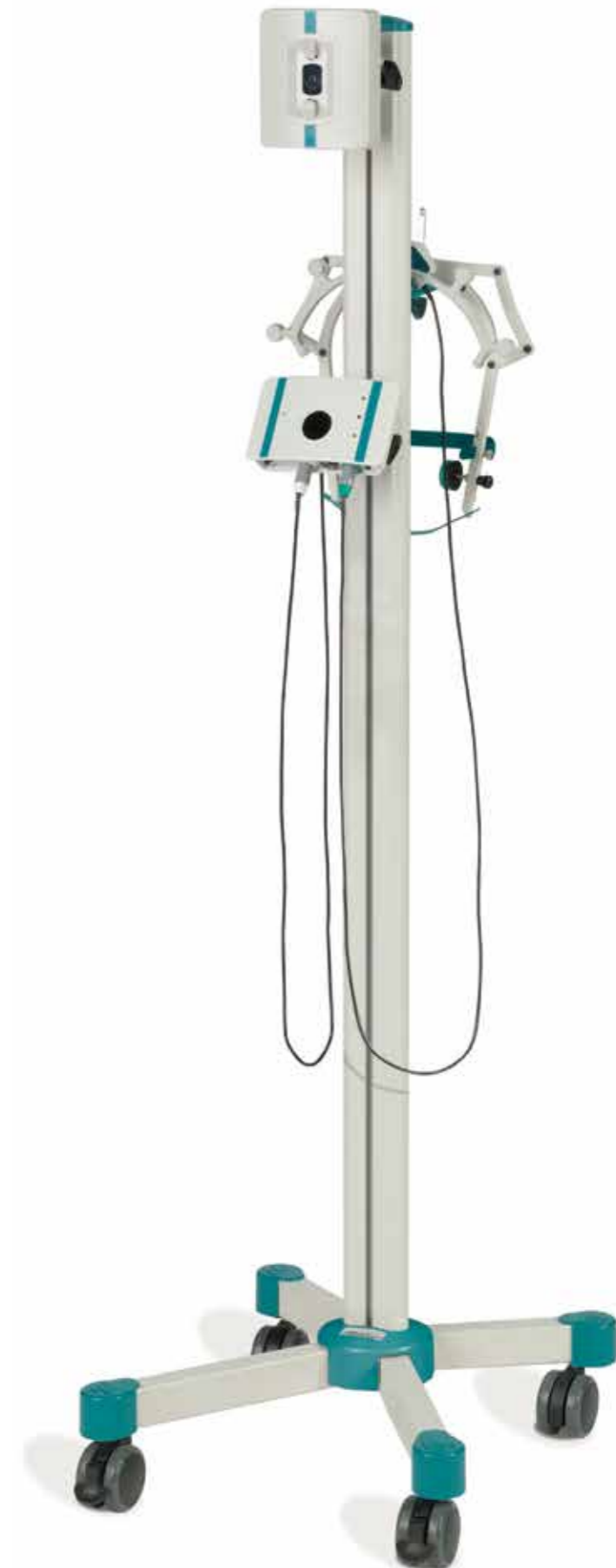


The tracer pin function enables the recording of facial profile or any random points in the joint region as well as on the occlusal surface.



Safe and comfortable – the face bow has cushioned support surfaces and a supporting band running over the head.

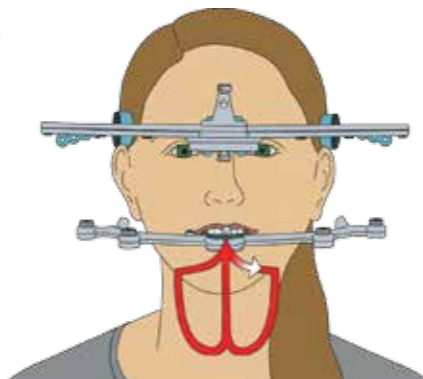
The **JMA⁺analyser** convinces through its simple operability and compact dimensions. The face bow can be put on with only a few movements of the hand. Time-consuming adjustment measures on the patient's head are completely omitted. The lower jaw sensor is fastened on the paraocclusal lower jaw attachment by means of a magnetic holder. The handy basic unit can be comfortably worn by the patient via a retaining strap on the body. The measurement data are transmitted to the evaluation computer cable-free by means of Bluetooth or USB interface. Alternatively, the basic unit can be attached to a system carrier together with an optionally available camera. As a result, the **JMA⁺analyser** is flexible and ready for use quickly.



Intuitively operable – WINJAW+ evaluation software

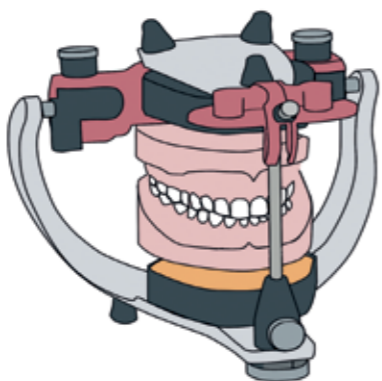
In addition to the database, the software pertinent to the system includes four basic measuring modules:

3D analysis of movement and function



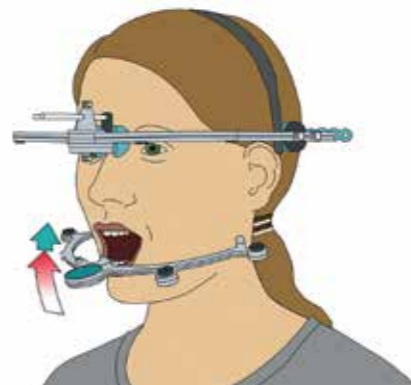
Discoordinations, motion sequence disorders, limitations of movement as well as hypermobilities in the temporomandibular joint and in the occlusal region can be analysed and documented during functional analytical examinations.

Calculating the setting values of fully adjustable articulators



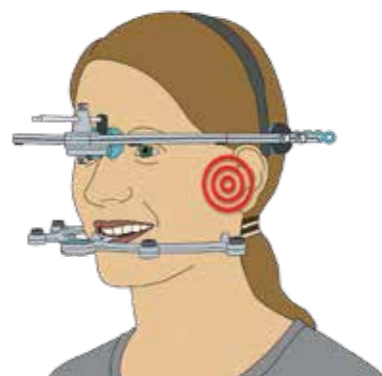
For determining the setting values on fully adjustable articulators, the lower jaw movements such as protrusion and laterotrusion are carried out in a specified measuring sequence. After that, the movement data are determined and the setting parameters are automatically displayed in the report.

Determining a neuromuscular lower jaw position



The system allows the determination of a therapeutic neuromuscular jaw position. In the process, the patient carries out rapid closing movements on a flat frontal plane. The calculated optimal position is navigated back and encoded with registration material.

Electronic position analysis (EPA) of condyles



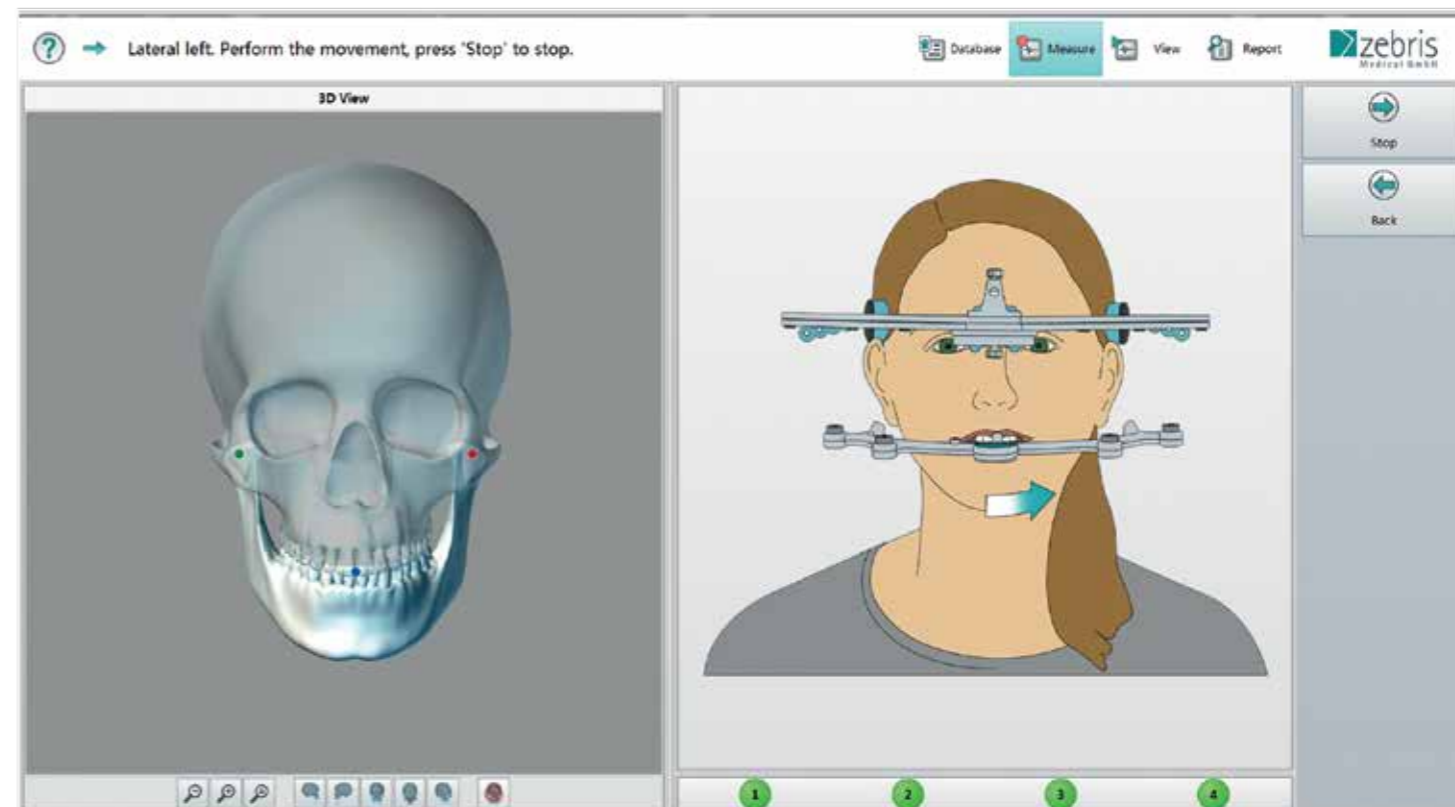
The electronic position analysis of the condyles allows analysis of occlusal positions in the region of the temporomandibular joint. For instance, the influence of occlusal splints can be validated as a result.

The interface to digital dentistry



To create a functional dental prosthesis the system calculates the setting values of virtual articulators and provides these as an XML export file for CAD/CAM systems.

The software includes a three-dimensional model that is animated on the basis of the patient's individual movement data. Consequently, motion disorders can be clearly explained.



The simple to operate evaluation software leads users through the individual examination steps by means of clear symbols. Operation occurs comfortably with the aid of a cordless footswitch or computer keyboard. Every movement can be tracked in real time on the screen and repeated at any time.

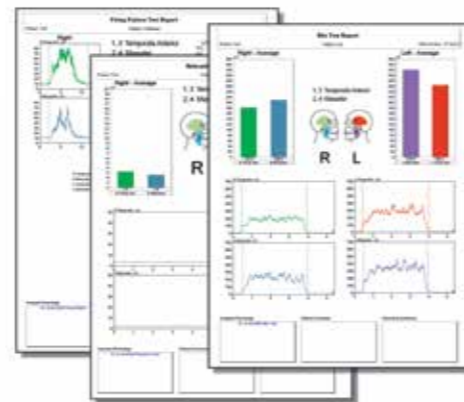
EMG – analysing muscular function

Compact and portable – the **JMA⁺analyser** complete system



The optionally available 4-channel EMG module allows the analysis of muscular action potentials by means of bipolar skin surface electrodes. The system enables functional tests of the muscle groups anterior temporalis and masseter. Conduction occurs on both sides via electrode cables with integrated measuring amplifiers. The EMG activity can be detected precisely and reliably without any cable artefacts.

The EMG module includes the **JMA⁺analyser** upgrade with 4 analog channels, 4 EMG amplifier cables as well as the software extension.



- The **JMA⁺analyser** system includes:
- Basic unit with power supply
 - Face bow with receiver modules
 - Lower jaw/pointer sensor
 - Footswitch (cordless)
 - Attachment
 - zebis Dental Software WINJAW+
 - User manual
 - Transport case

- Can be supplied as an option:
- Software extension modules
 - 4 channel EMG module
 - System carrier

Operation occurs via a commercially available PC with Windows 7/8, 32/64 bit.



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