

**Zirkonzahn®**



## **X-RAY SPHERE**

*Radiopaque zirconia spheres for the precise production of surgical guides*

## RADIOPAQUE ZIRCONIA SPHERES FOR THE PRECISE PRODUCTION OF SURGICAL GUIDES

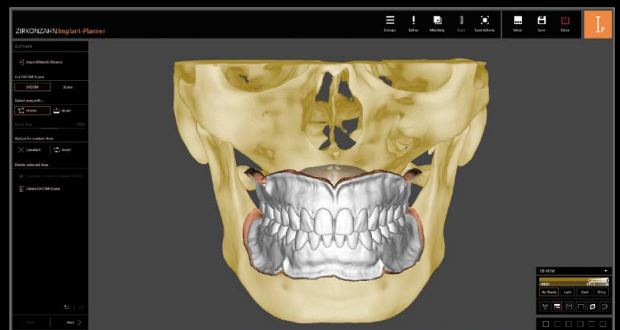
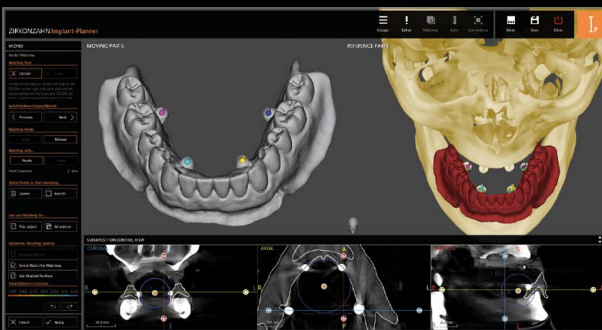
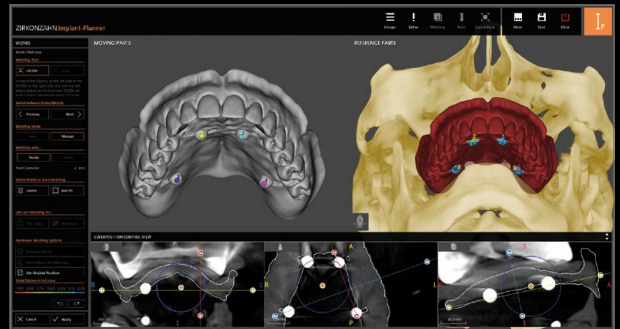
*When treating edentulous patients, precisely identifying soft and hard tissues for producing surgical guides is usually difficult. To solve this problem, the X-Ray Spheres have been conceived: radiopaque zirconia spheres used as reference objects in X-rays.*



# WORKFLOW

After receiving impressions or scans from the dentist, the technician produces a temporary restoration onto which the zirconia spheres are glued. The temporary prosthesis is then handed over to the dentist who inserts it into the patient's mouth and takes CBCT scans. The recorded data and the digitally designed prosthesis with the spheres are transferred into an implant planning software where the matching between the prosthesis and the CBCT scans, on which the spheres are visible as well, is carried out to ensure hard and soft tissues are in the correct relationship. This provides a reliable reference for a correct implant placement in relation to the existing dentition, ensuring the production of precisely fitting surgical guides.

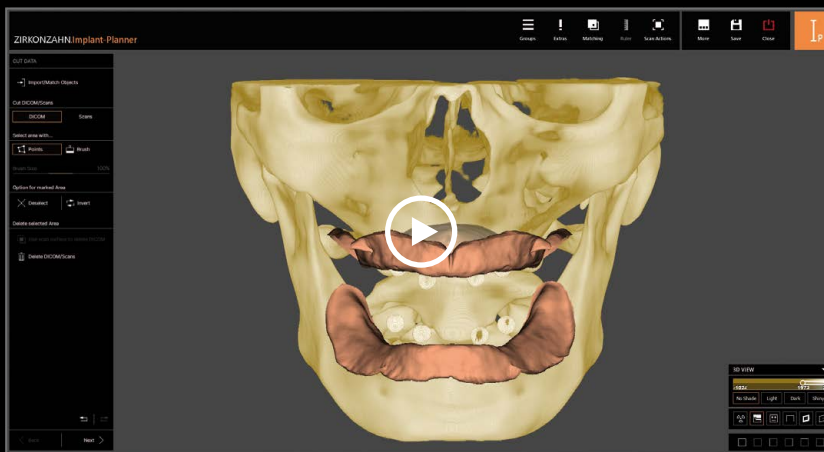
The X-Ray Spheres on the previously produced prosthesis can be removed by the dentist and sealed with resin, allowing the patient to wear the prosthesis until the implant placement.





## BONE DOCTOR SOFTWARE MODULE IN ZIRKONZAHN.MODIFIER

*The Bone Doctor is a module of the Zirkonzahn.Modifier software which enables the user to analyse different skull bones by importing patients' DICOM data and to obtain 3D files out of them. Based on artificial intelligence, the software divides into segments the desired anatomical bone parts in a completely autonomous way, saving the user a lot of time. The segmentation can include any part of the skull, such as the lower jaw, the mandibular nerves, the individual teeth, the maxillary sinuses and other anatomical parts.*

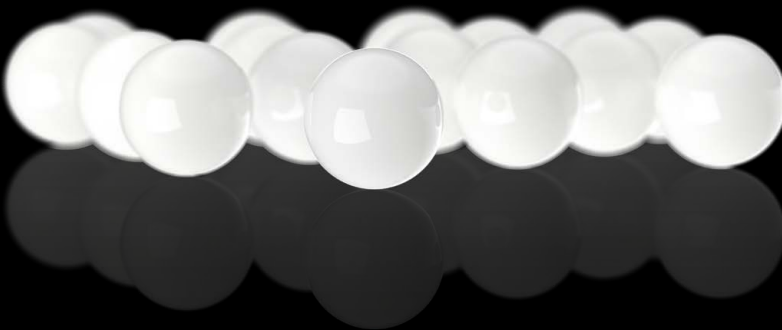


r.zirkonzahn.com/kmq

**WATCH THE VIDEO  
X-RAY SPHERE AND  
BONE DOCTOR IN THE  
ZIRKONZAHN.SOFTWARE**

## HUMAN ZIRCONIUM TECHNOLOGY

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### **NEW! X-RAY SPHERE 5 mm**

*Content: 10 pieces*

*Radiopaque zirconia spheres for a precise identification of soft and hard tissues when producing surgical guides for edentulous patients.*

*Item number: ZBAB0101*



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