

Zirkonzahn®

MOBILE LABORATORY

by Zirkonzahn

ENGLISH



PROTOTYPE

STEP-BY-STEP

*We have set up a fully equipped workbench for you in our mobile laboratory. As part of our four-hour **hands-on workshop**, you will receive step-by-step instructions for making a resin provisional denture as the basis for an ideal CAD/CAM workflow. Together with one of our experts, you will design and construct the provisional denture right on the spot!*

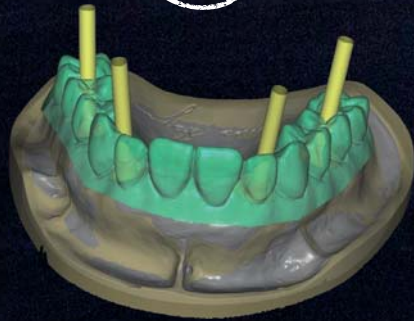
PLANNING

①



PROTOTYPE

②



PROTOTYPE 2

③



PRETTAU® BRIDGE

④





WE FORGE HEROES

James Steyer



WE FORGE HEROES

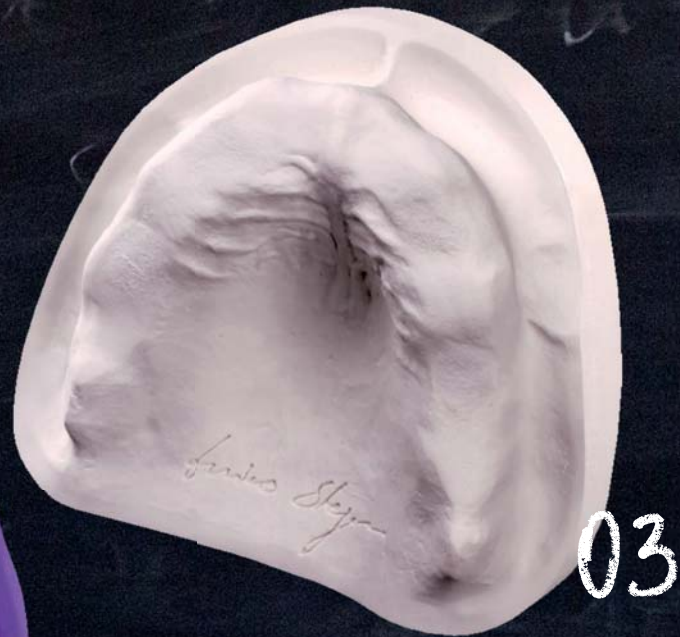


WE FORGE HEROES





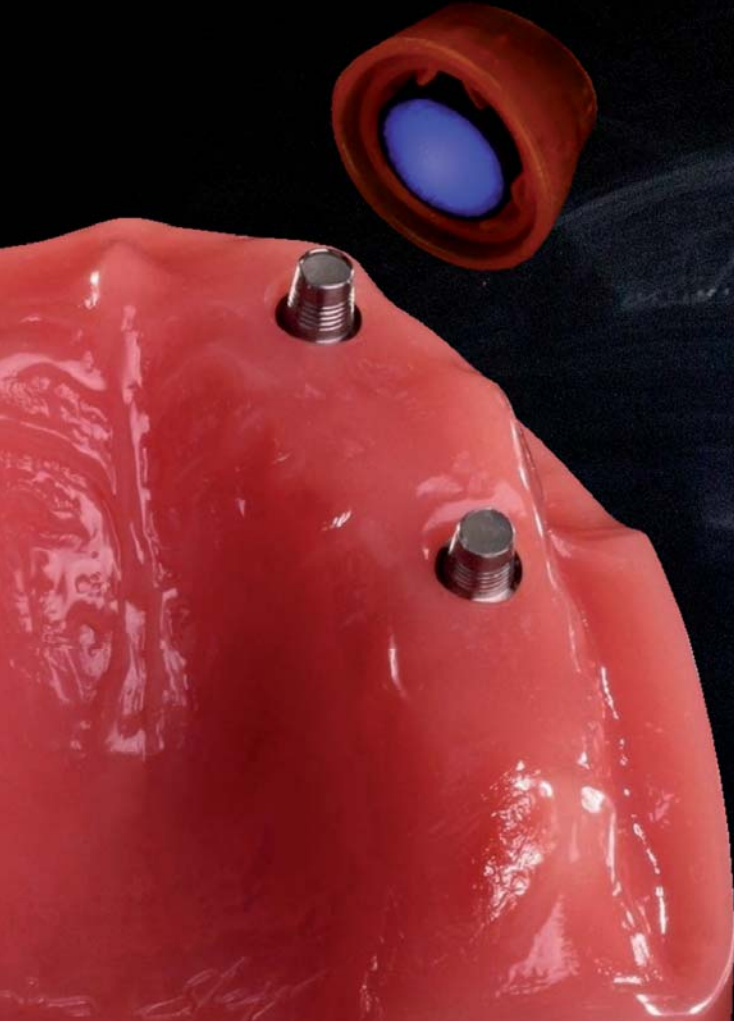
Mobile Laboratory in Vienna



- 1 Provisional denture
- 2 Relining with silicone
- 3 Plaster cast

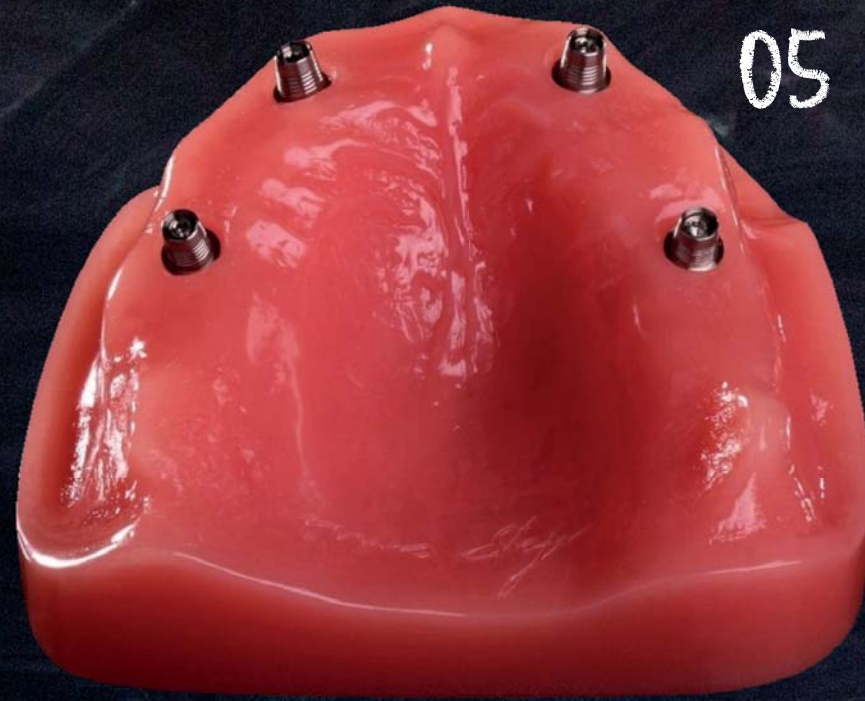
01

The four or more implants have healed.
We now reline the provisional denture with silicone.



04 Connecting the titanium base

05 Protecting the screw access canal



02

We connect tapered cemented titanium bases (non-hex) and protect them with light-curing resin or with cotton.

03



The alginate impression gives us the auxiliary implant cast in dental plaster.



06

*06 Alginate impression
07 Auxiliary implant cast*



07



Zirkonzahn Archiv

Client ID: 17
 Street name:
 CAB:
 City:
 Country:
 Language:
 E-mail:

Mobile Laboratory

Patient ID: 1

Tooth shades: A1

Scan mode: Registered jaw (without articulator)

Notes:

Select job for tooth 16

Solve / Laser: **Separate gingiva scan** (circled in red)

Screw retained (manual): Yes

Material: Metal, Sintermetal, Wax, zirconia

Gap thickness of cement: 0.350 mm

Distance to antagonists: 8 mm

margin width: 8 mm

Minimal thickness: 0.1 mm

Advanced parameters

Material: **Anatomic waxup**

COMP

Cancel Save

Select tooth

Click 'Save' to proceed

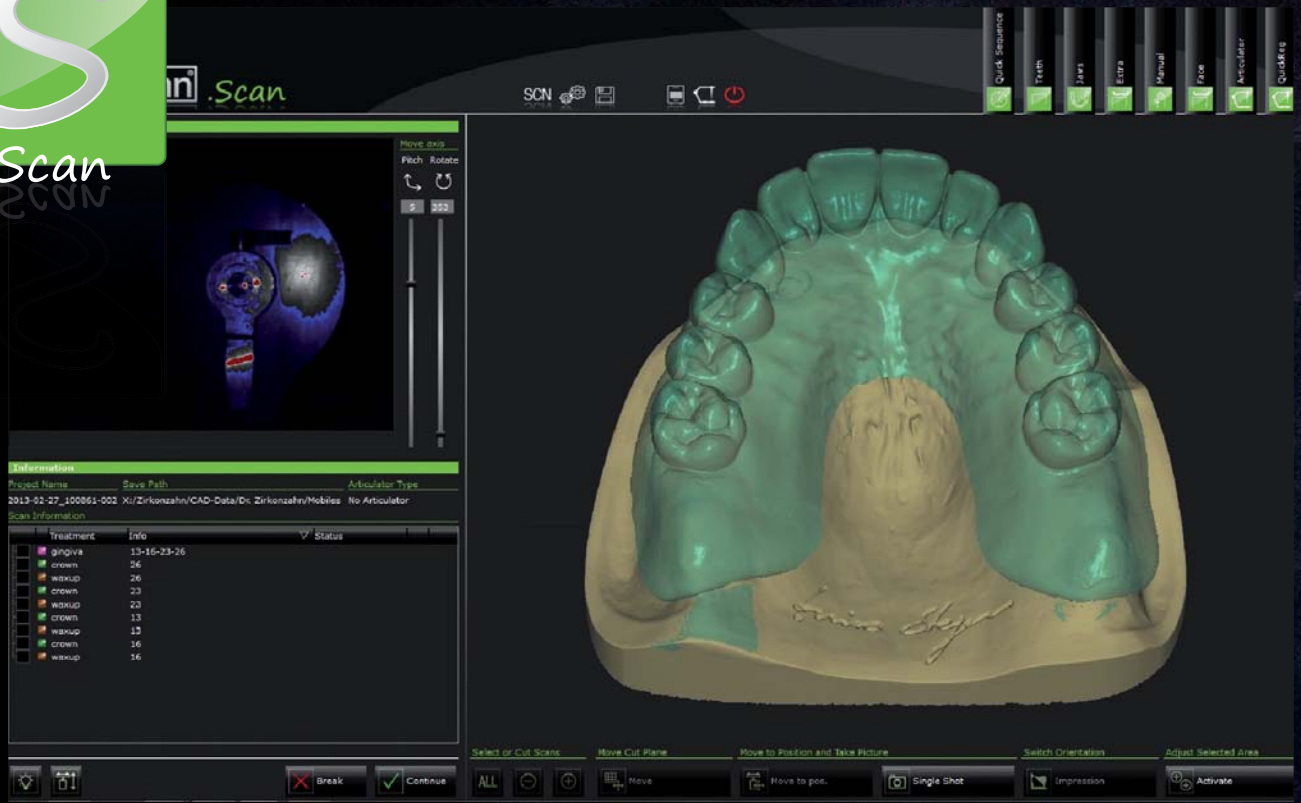
Anatomic waxup

044

In the Zirkonzahn.Archiv archive software we select "Wax-up", "occlusally screw-retained" and "Separate gingival scan".



.Scan

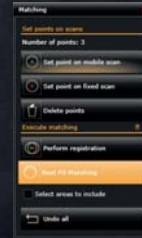
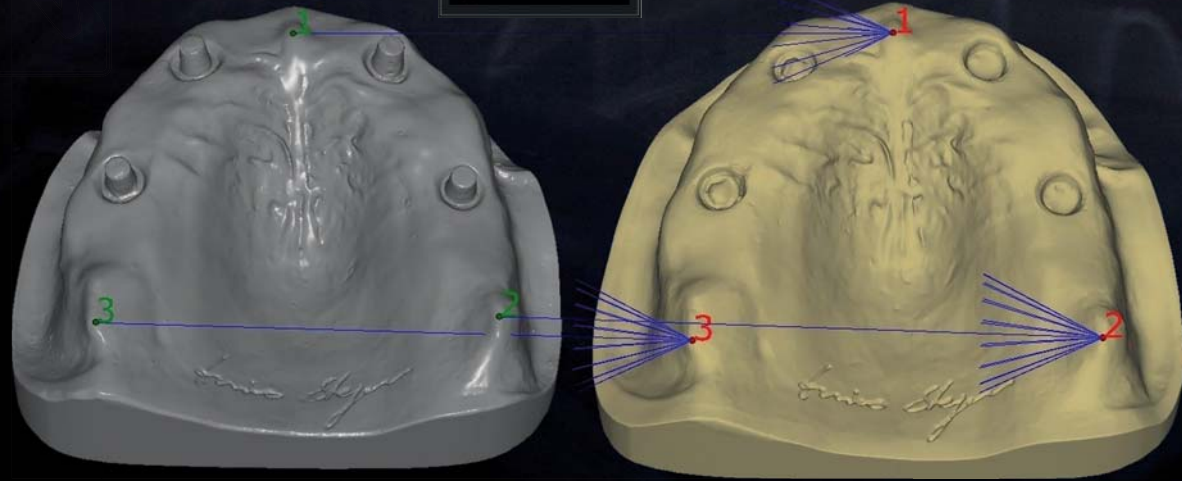


Treatment	Info	Status
gingiva	13-16-23-26	
crown	24	
waxup	26	
crown	23	
waxup	23	
crown	13	
waxup	13	
crown	16	
waxup	16	



05

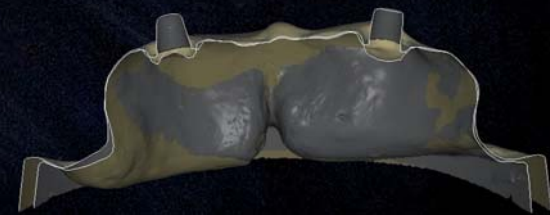
We then scan the wax-up, gingiva and auxiliary implant cast.

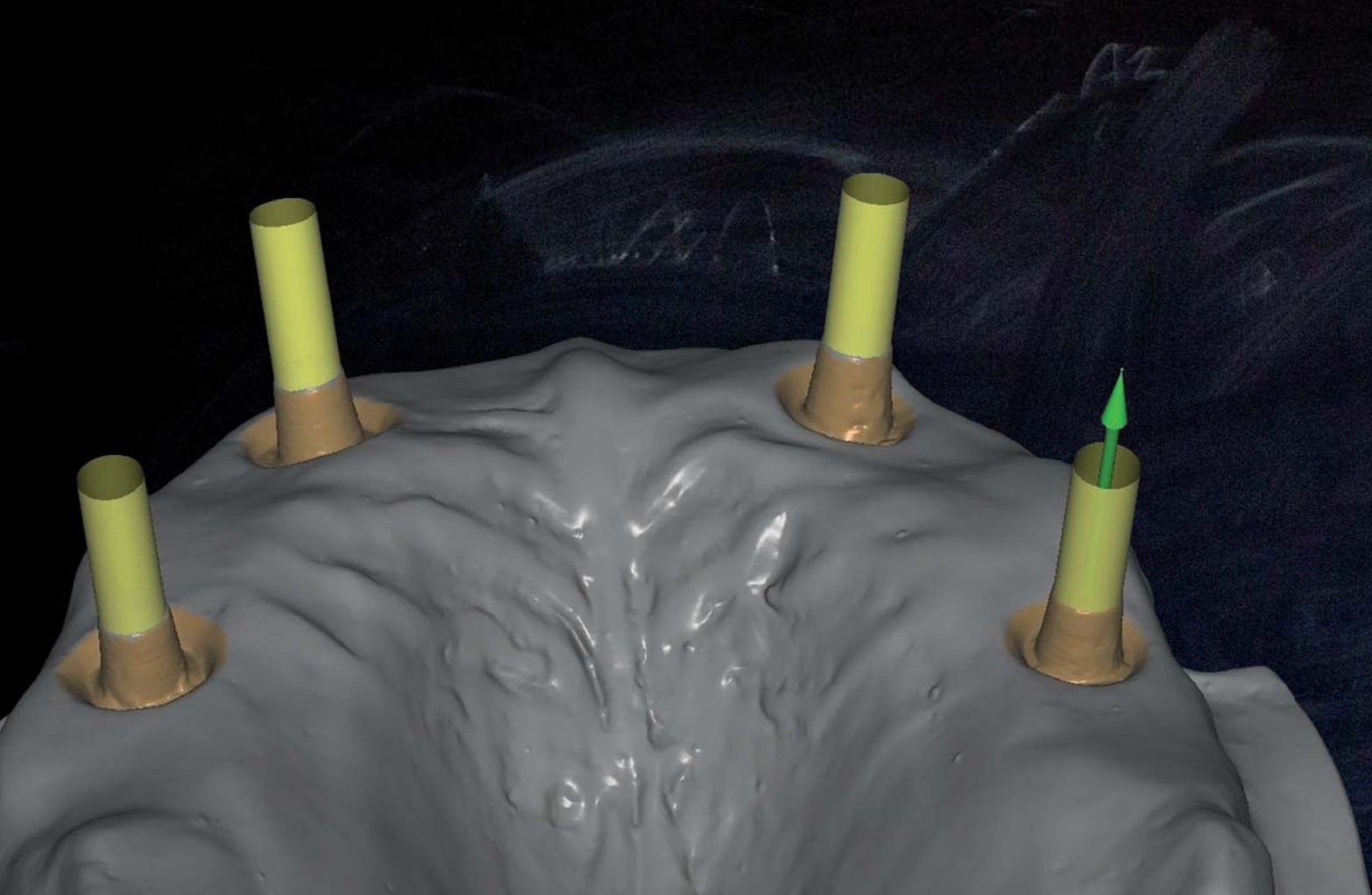


Using the “Best fit adjustment” function, we move the auxiliary implant cast onto the gingival scan and ensure a perfect fit.



Next, we check that the two structures are exactly superimposed.

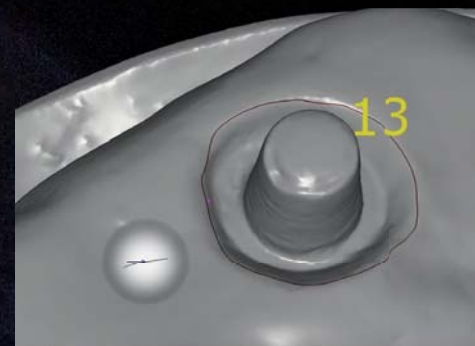


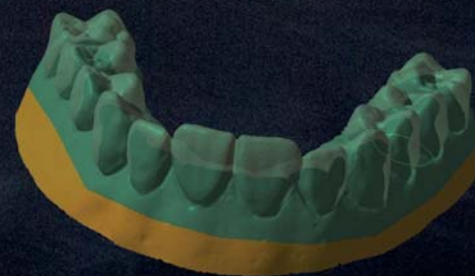
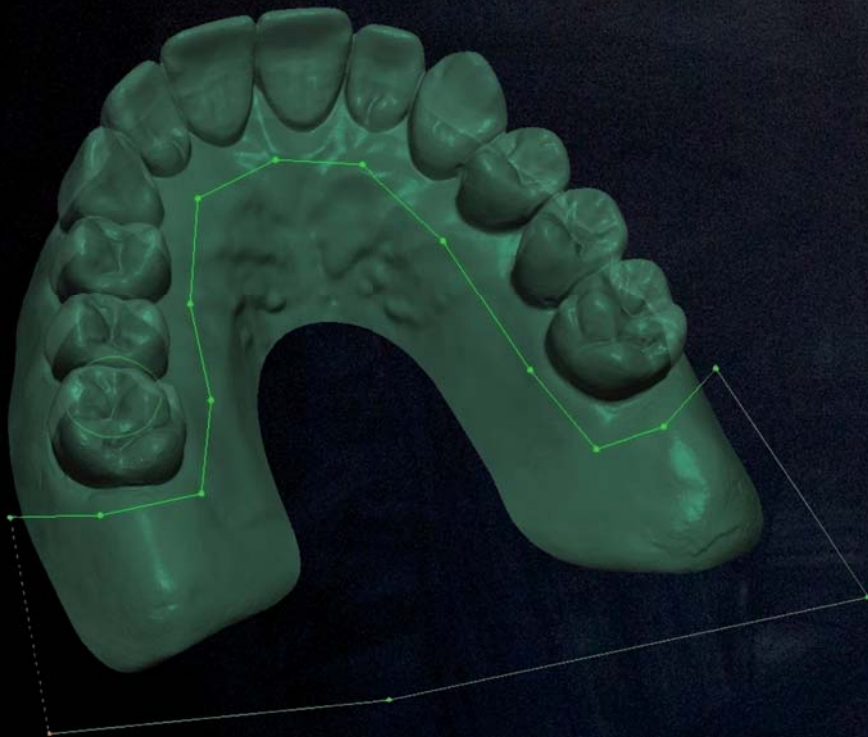


08

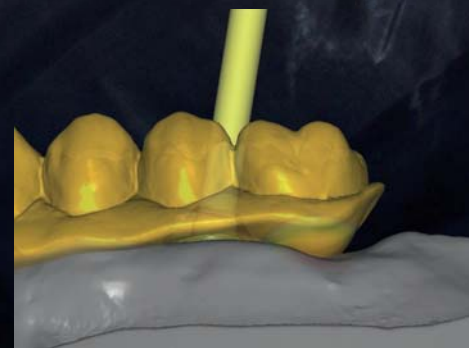
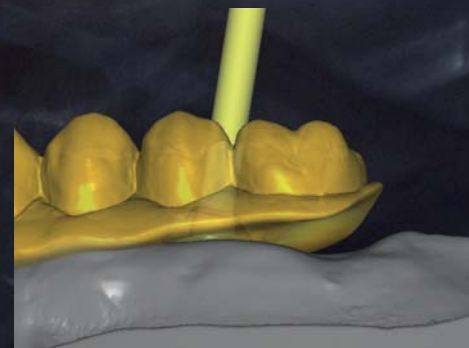
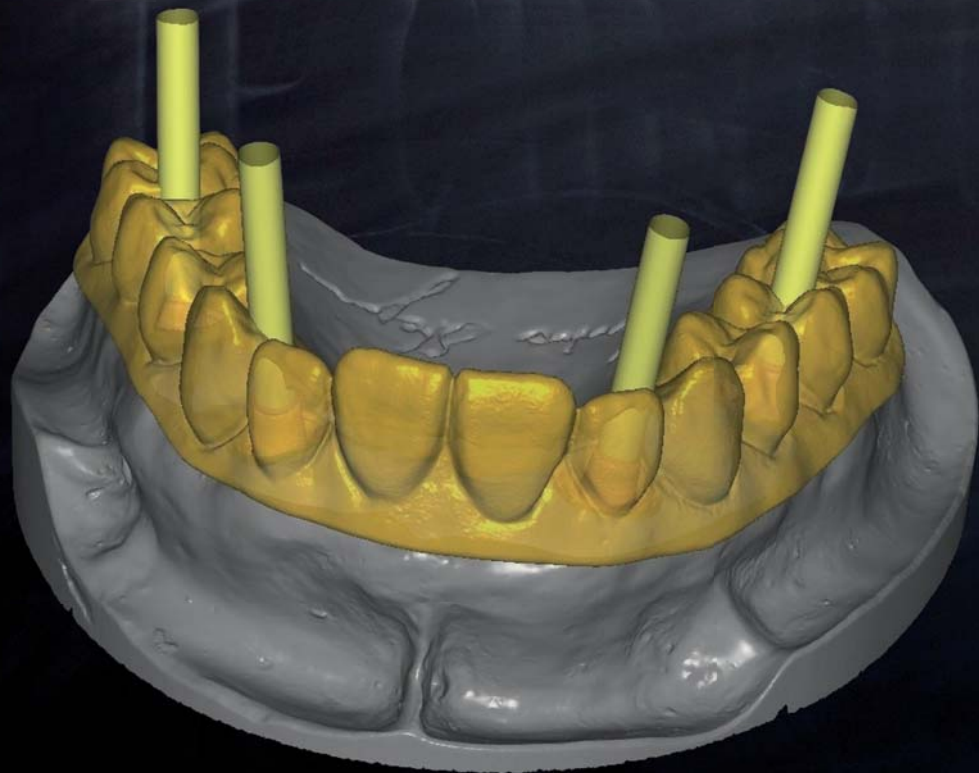


We also define the preparation margins and the axes of the screw canals, providing for a generous diameter of 3 mm.





We "trim" the old denture digitally on the palatal and vestibular aspects ...

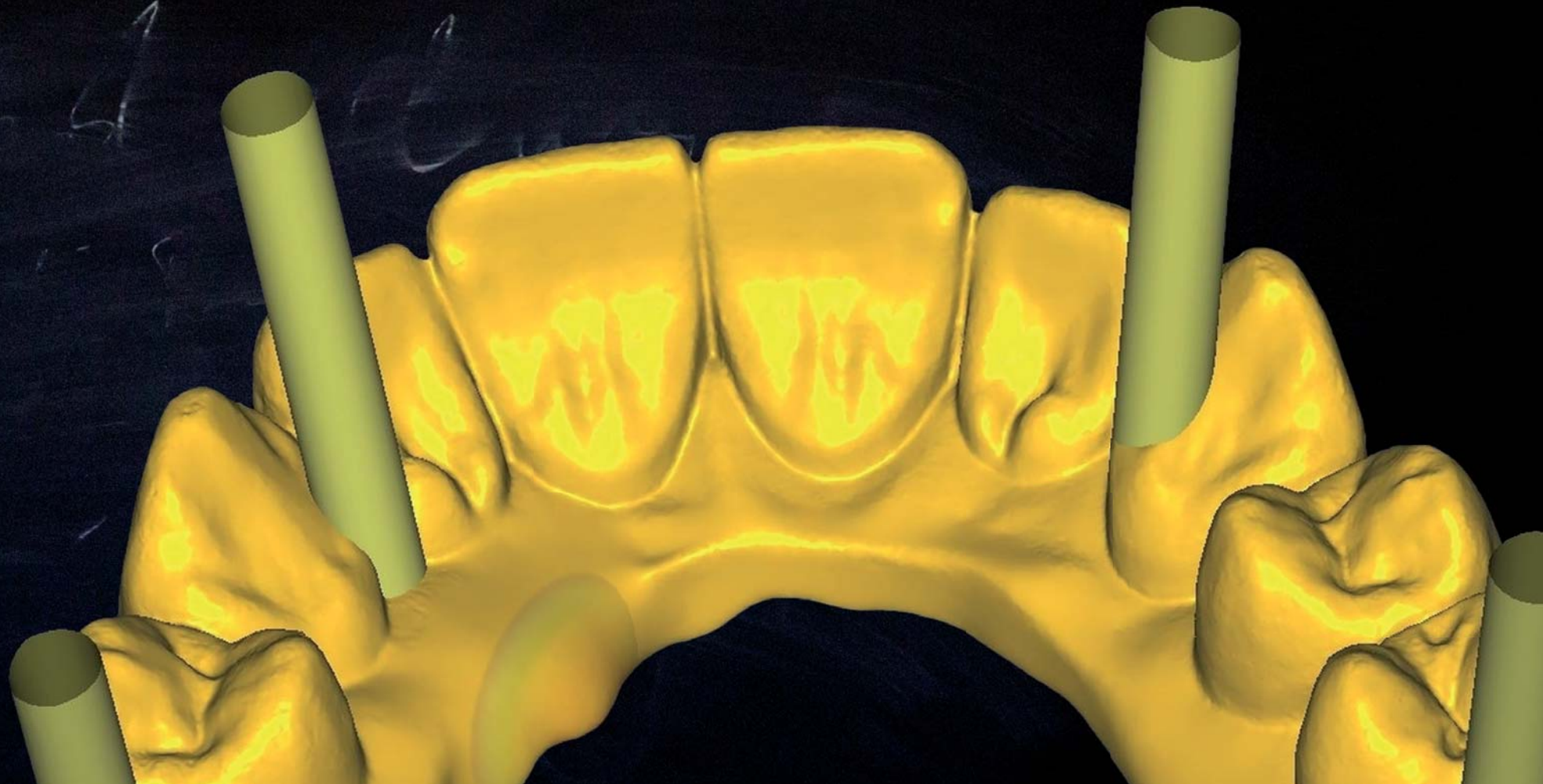


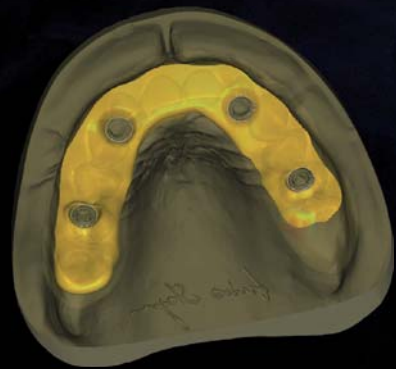
10

... and fit the wax-up automatically onto the titanium bases.

11

Using digital tools we finalize the anatomy and reduce the basal extension for better oral hygiene.

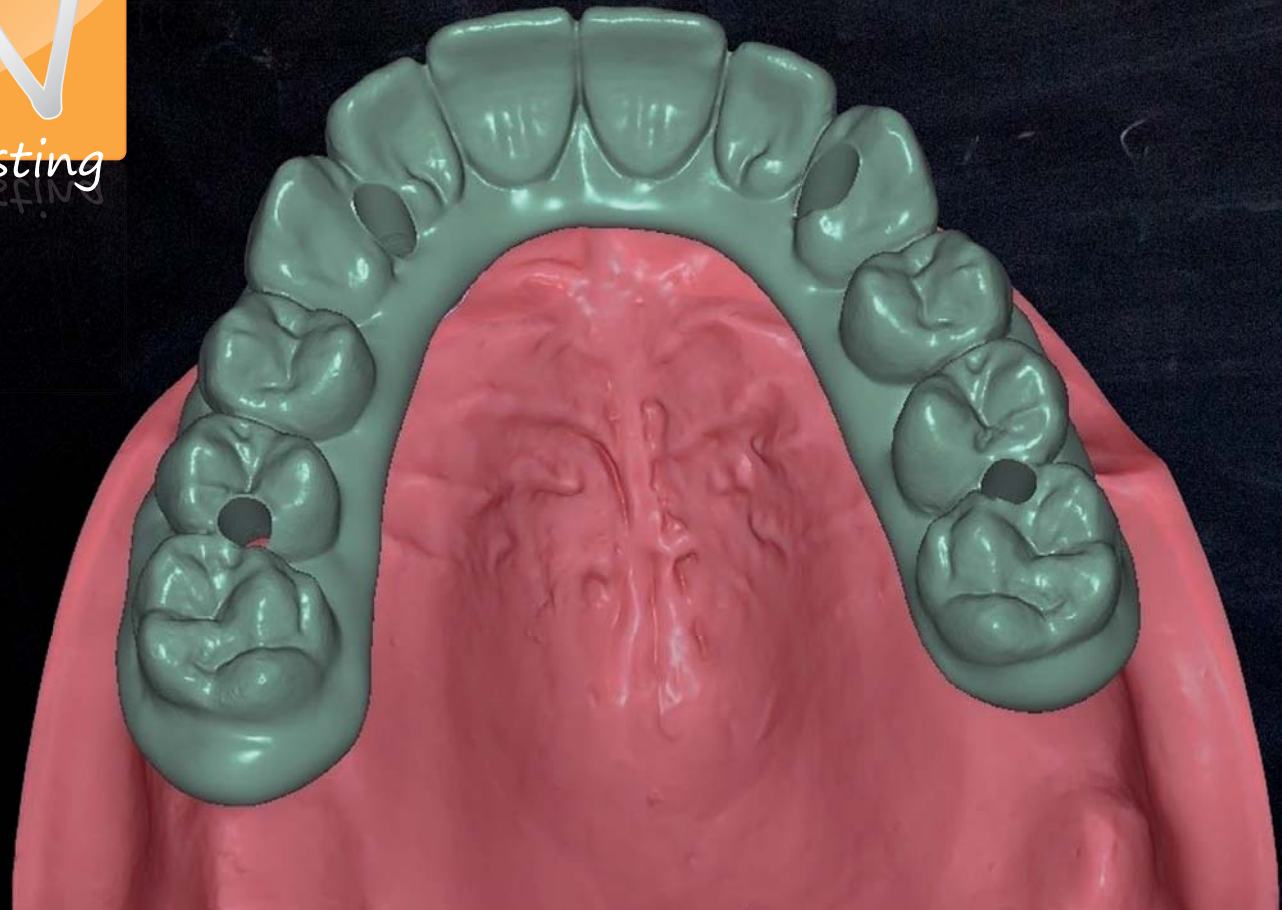




12

To prepare for the intraoral relining, we adjust the wax using the “Match to gingiva” function, keeping a 1 mm distance from the gingiva.



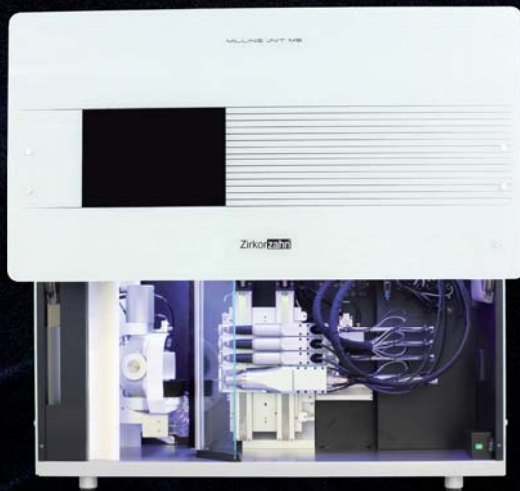
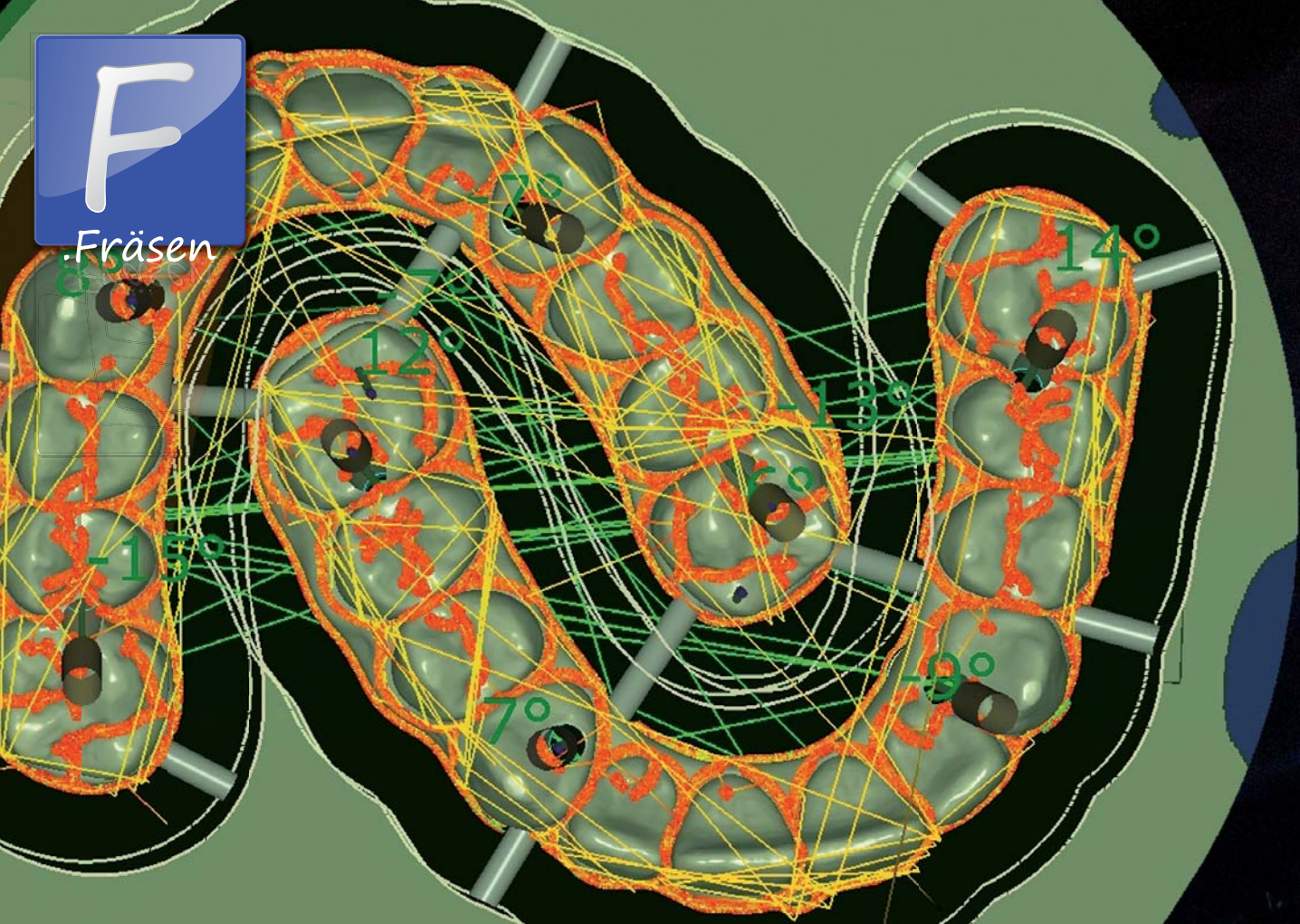


13

The manually positioned screw access canals are automatically added in the right place by the software. Then we save the restoration as an STL file, ready for milling.



Fräsen



14

Using the M5 simultaneous milling unit with 5 + 1 axes, we mill the prototype in acrylic resin, using precision finishing with the extra-fine 0.3 mm cutter.



OUR TIP!

When veneered with gingival-shade composite, the resin prototype can also be worn as a resin provisional.



15

We cut the holding pins and check the denture for passive seating on the auxiliary implant cast. Then we send the resin prototype to the dentist for the intraoral try-in.



16



In the dental office, the titanium bases are screwed onto the live implants, and the prototype is tried in.

17

IMPORTANT!

*The re-sealed titanium bases
are now passively and adhesively connected to the
prototype in the patient's mouth.*



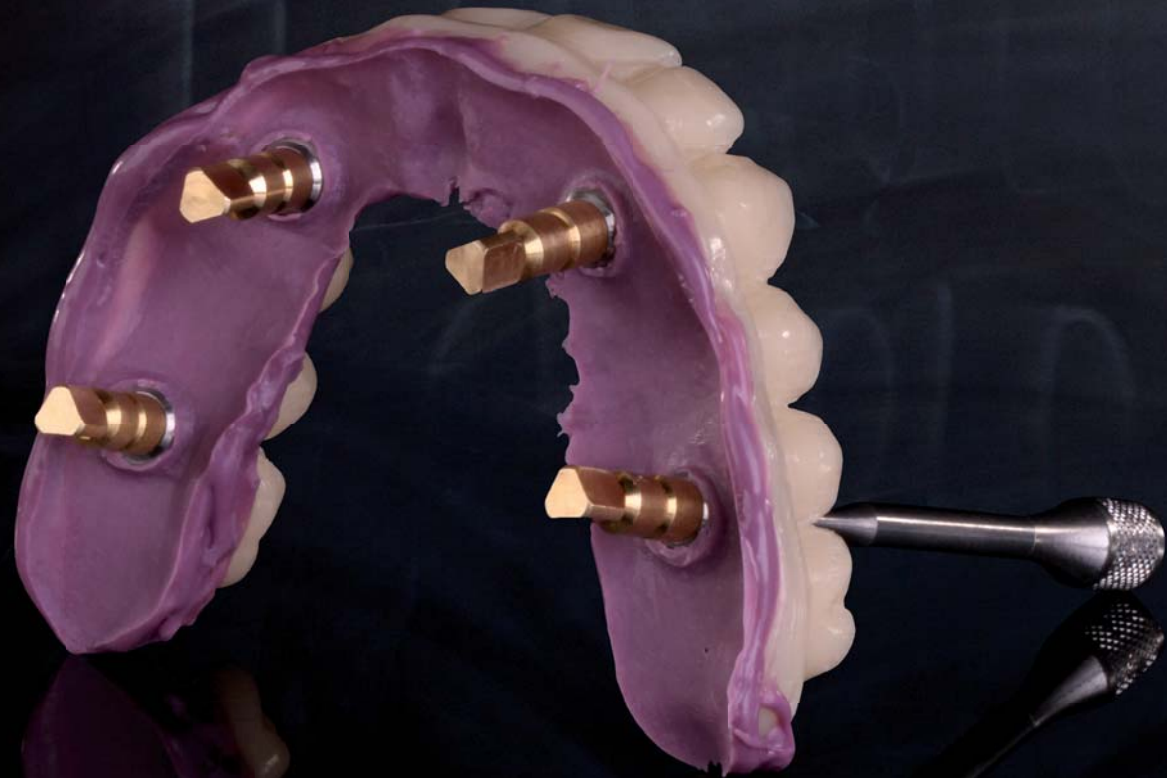


18

The function, aesthetics, phonetics and cleanability of the prototype are examined.



The adhesion sites are checked for strength, and the denture is relined with silicone (Impregum™).



20

The key to good teamwork is the prototype that has been worn by the patient and that has been customized to his or her wishes.

OUR TIP!

An optional overimpression can capture additional footprint (e.g. tuber region, median raphe, neighbouring teeth).



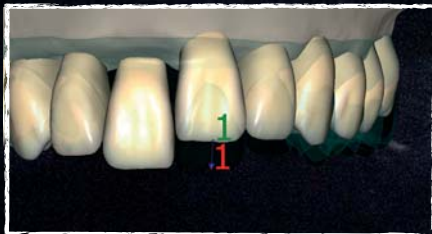
21

Finally, we make a **master cast** that faithfully represents the passive implant impressions and the compressed gingiva.



PROTOTYPE 2

NEXT LEVEL



CHECKLIST

OFFICE



Appointments

- Control of the healed implants
- Impression and relining
- *Prototype* try-in
- *Prototype 2* try-in, if necessary
- Try-in of the completed denture

Material

- Matching titanium bases (conical non-hex)
- *Telio CS* (or cotton)
- Resin cement (*Luxatemp*)
- Relining material (*Impregum™*)
- Alginate



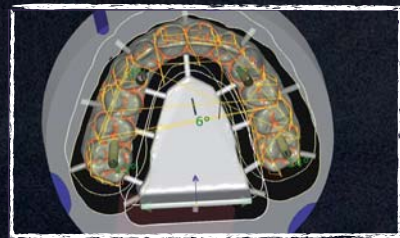
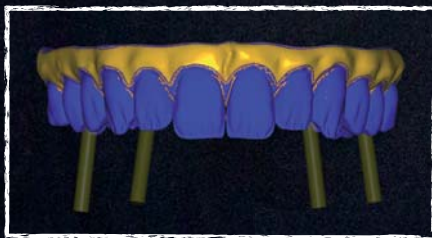


MY
PRETTAU®
BRIDGE



PRETTAU® BRIDGE

HIGH LEVEL



Zirkonzahn®

HUMAN ZIRCONIUM TECHNOLOGY

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All information is subject to change. Errors and omissions excepted. Version: 21.05.2014