

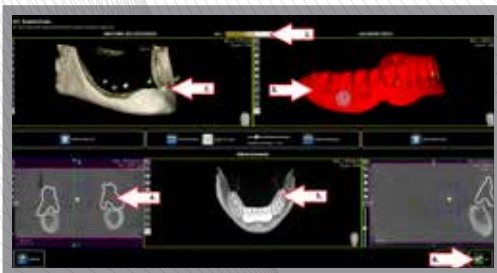
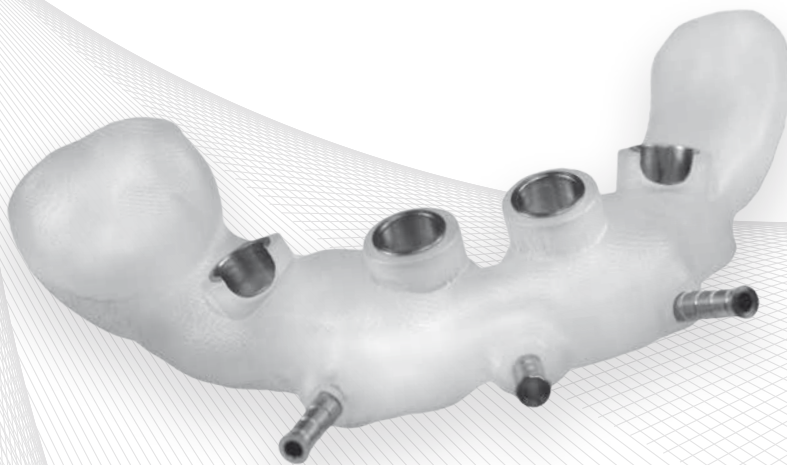
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The implant-drilling template of the future.



## QUICK-TIME GUIDE 3.0

User Manual for the ICX-MAGELLAN-Software



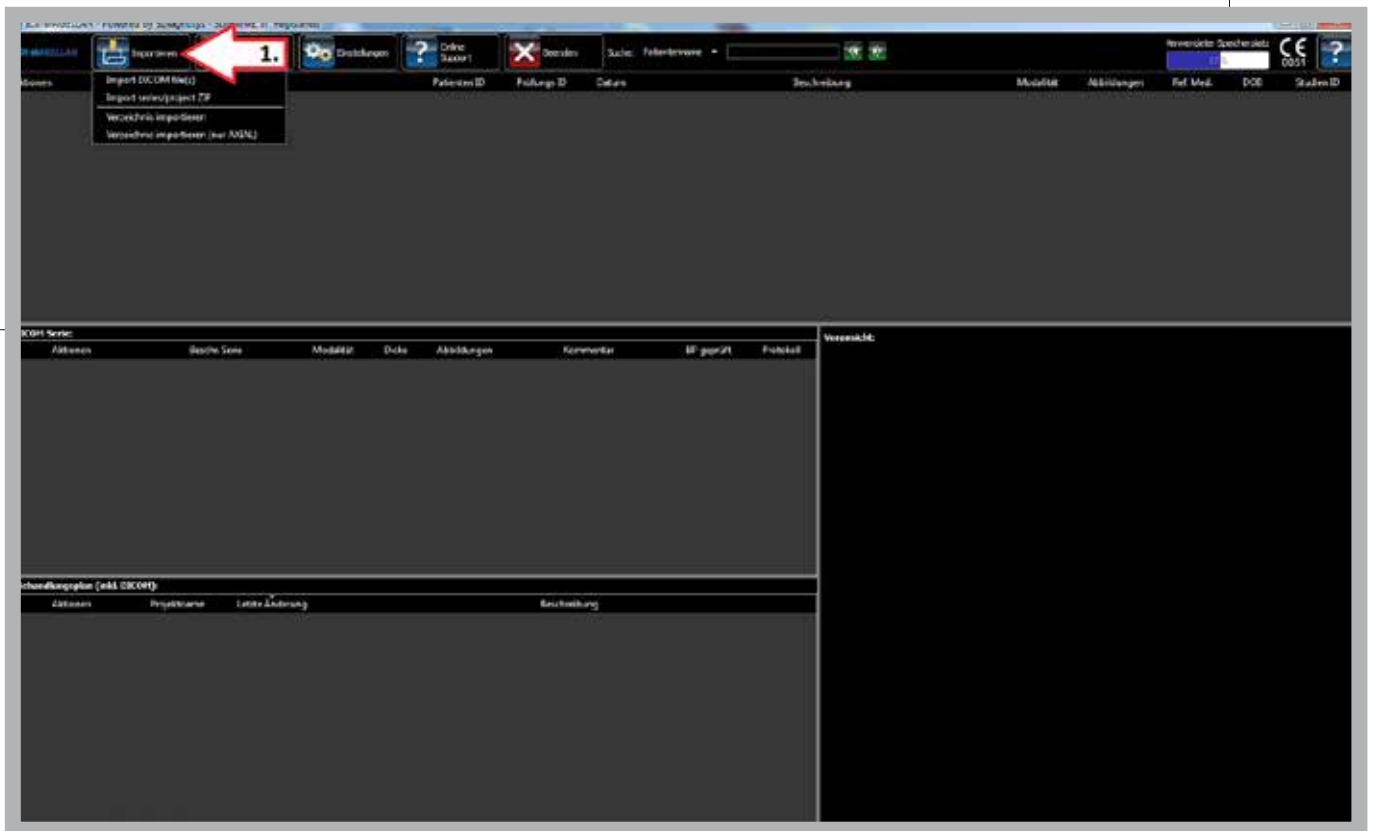
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Fig.1:

Import :

- Select „Import directory“ for Dicom3.0-Datasets
- Select „Import from series/project ZIP“ for Treatment Plans



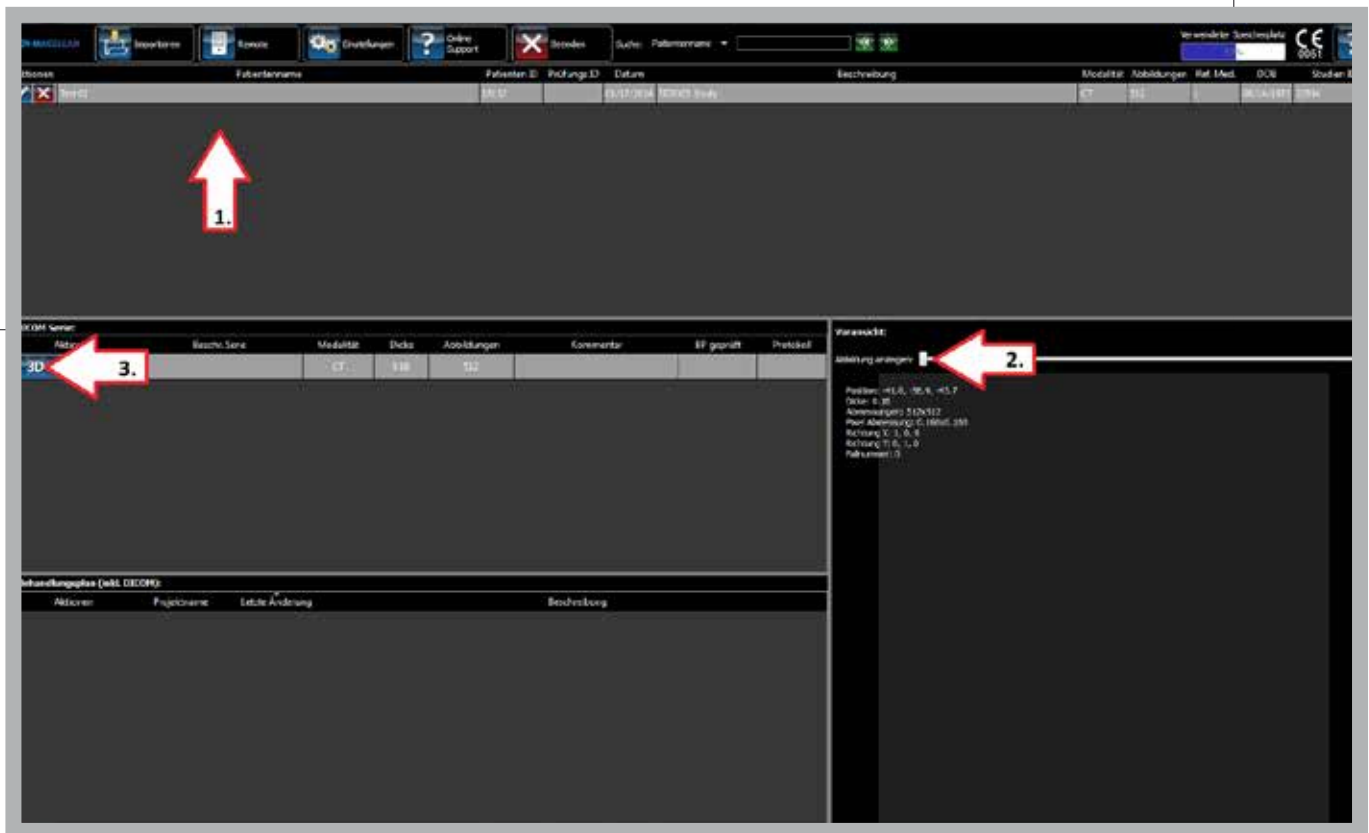
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Fig.2:

1. Patient-Study
2. Dicom Dataset(s) belonging to that patient
3. Preview of the Dicom 3.0 Dataset  
(Press „3D“-Button to start the planing-wizard)



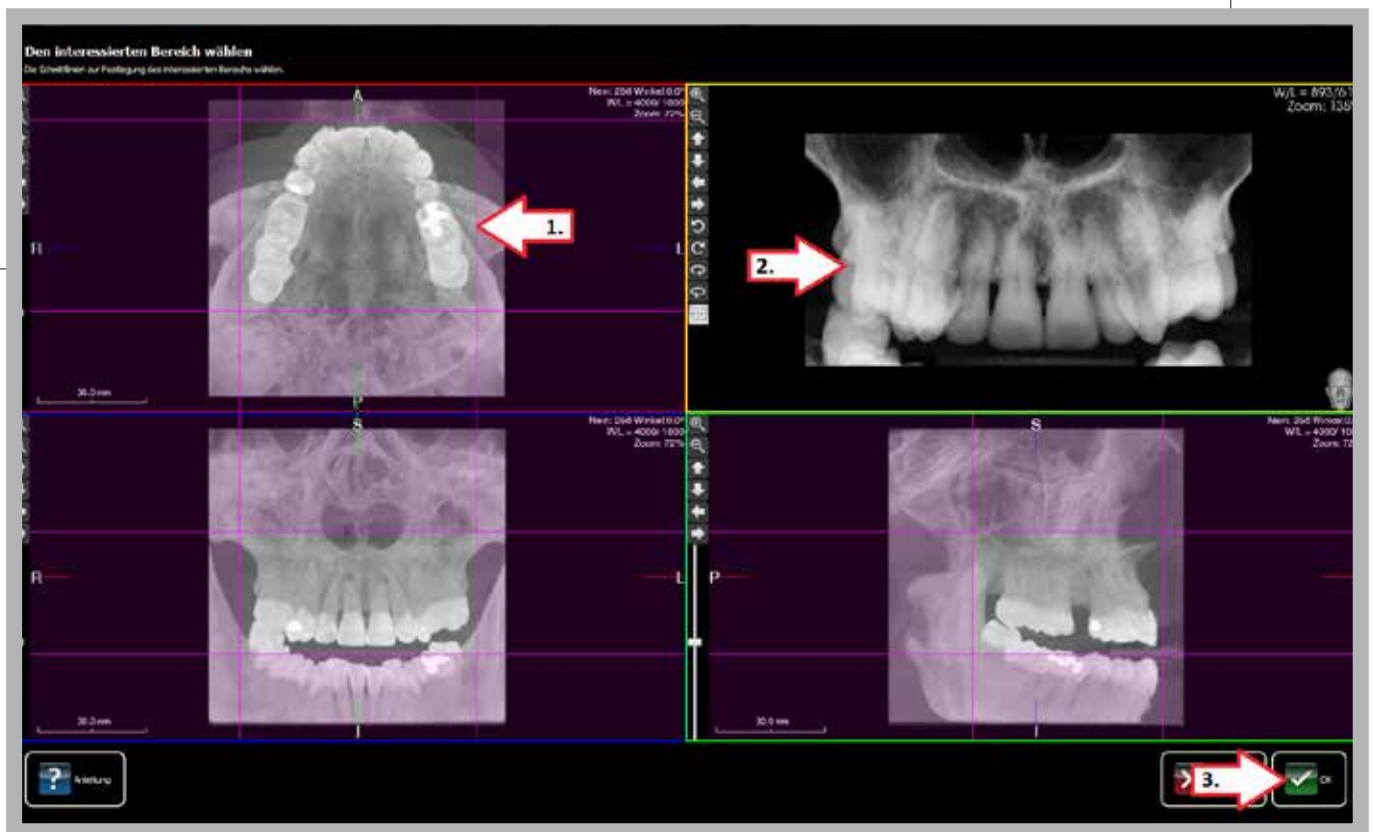
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Fig.3:

Select Region of Interest:

1. Leftclick and drag the purple-coloured lines towards the object
2. Use 3D-View to control
3. Press „OK“ to continue



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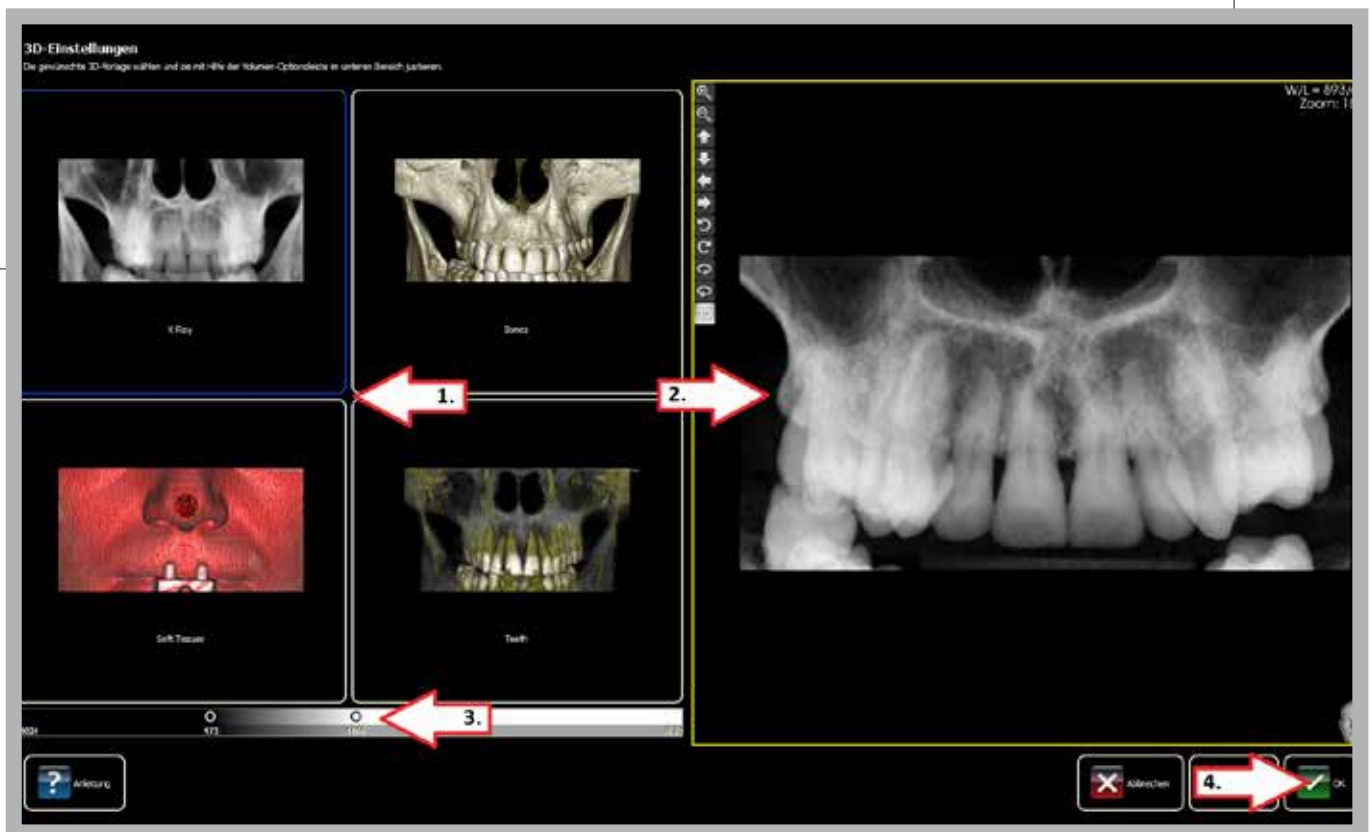
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Fig.4:

### 3D-Settings:

1. Select desired view
2. Use 3D-View to control
3. Grayscale-settings ( changes grayscale for the whole project! Evaluation of bone-quality won't be possible if changed!)
4. Press „OK“ to continue; „Back“ to get one step back; „Cancel“ to abort





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Fig.5:

Select Pano plane:

1. Adapt plane to the tooth-root-point
2. Adapt plane to occlusion
3. Use cross-section to control
4. Press „OK“ to continue



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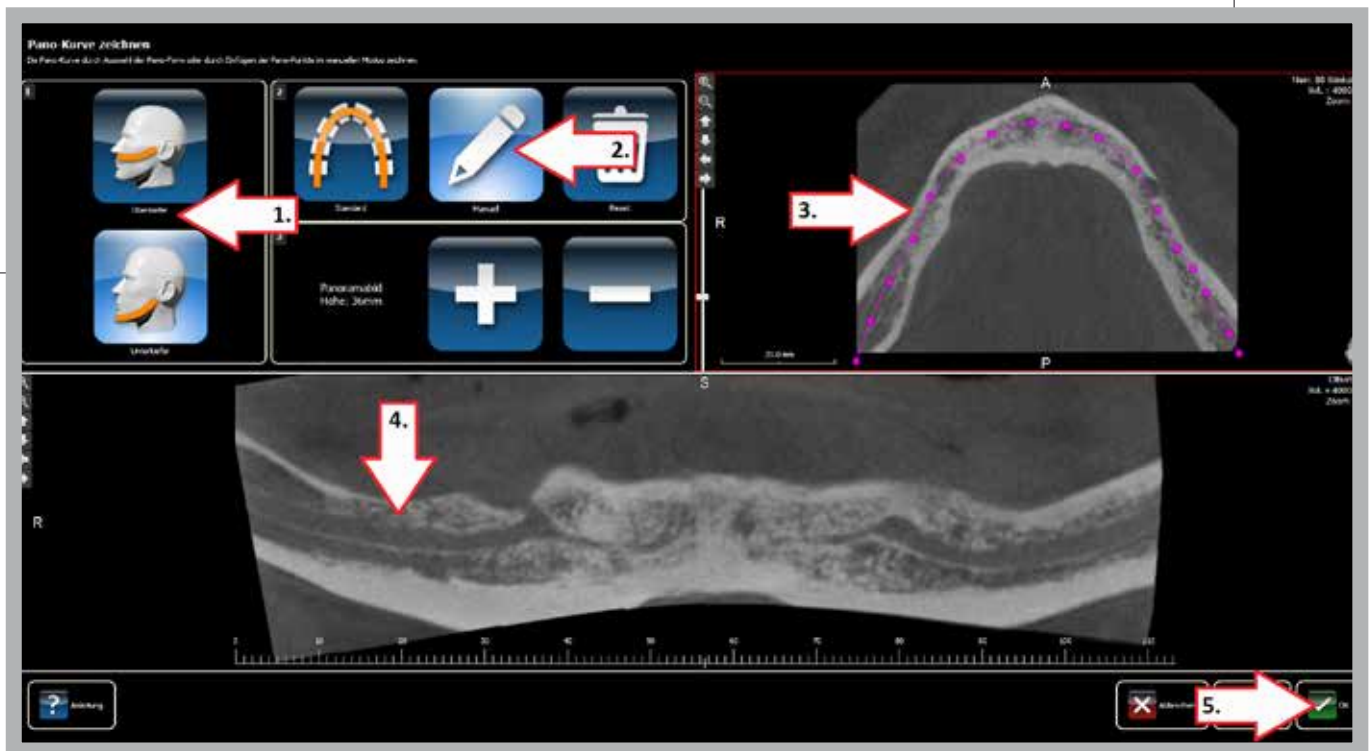
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Fig.6.1:

Draw pano curve:

1. Choose Mandible/Maxilla
2. Select manual
3. Point and click with left mouse
4. Use cross-section to check if nervus mandibularis is visible
5. Press „OK“ to continue



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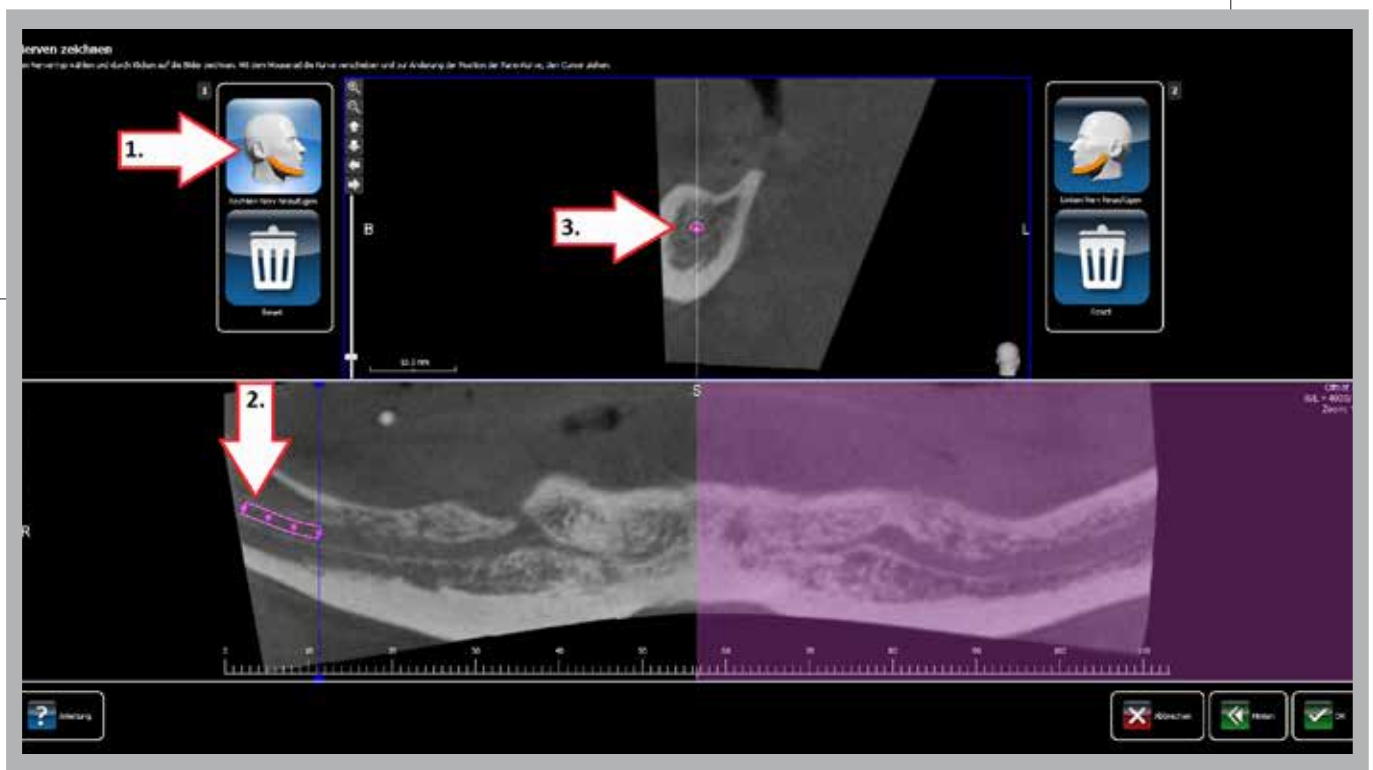
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Fig.6.2:

Draw Nerves:

1. Add Right Nerve
2. Point and click with left mouse
3. Use cross-section to control



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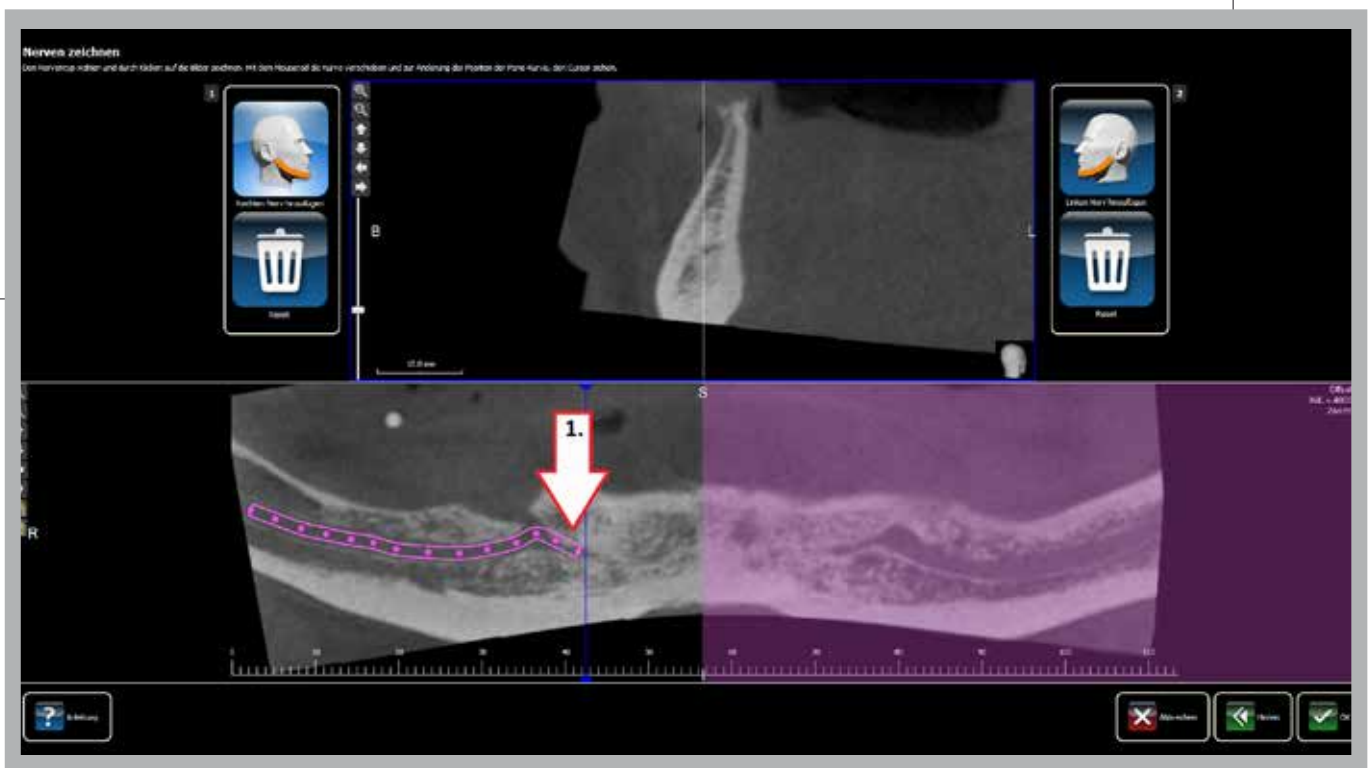
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Fig.6.3:

Draw Nerves:

1. mark the whole structure from distal to mesial



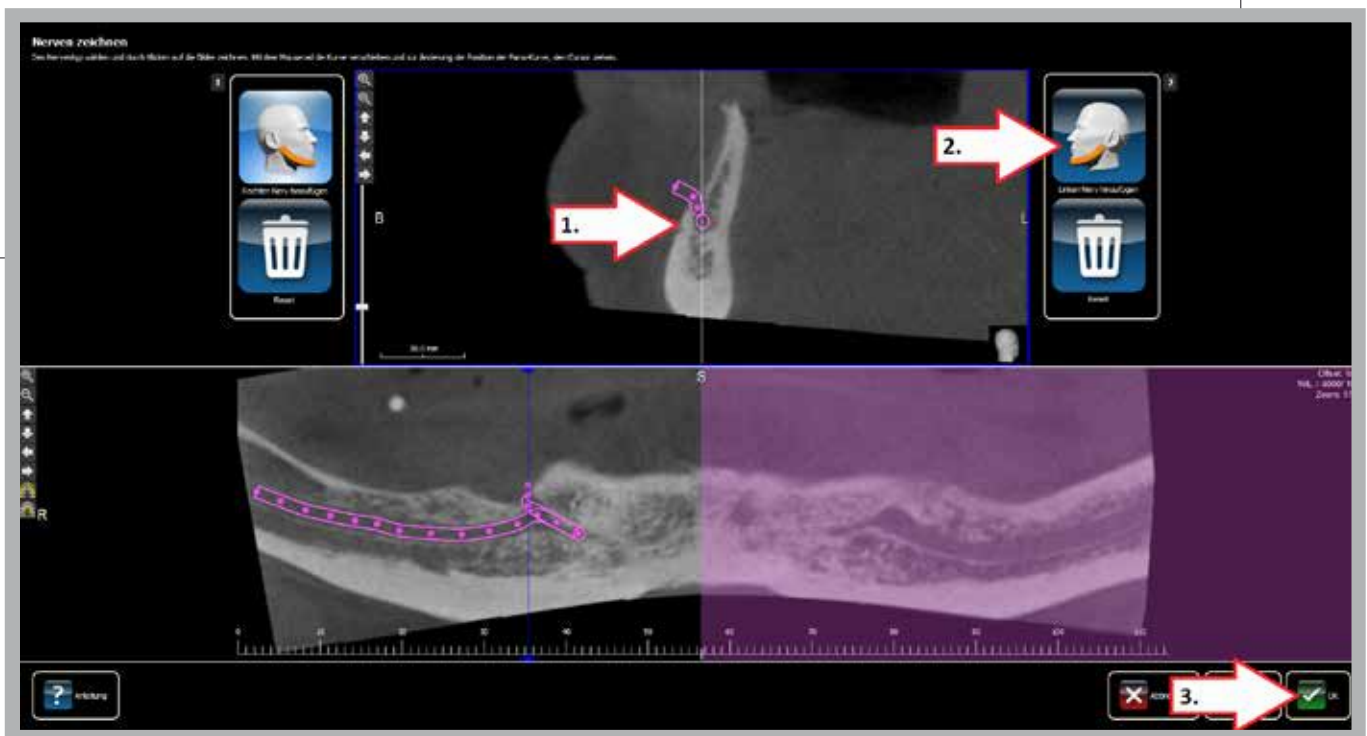
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Fig.6.4:

Draw Nerves:

1. Move the cursor to the upper cross-section. Delay the blue crosshair by scrolling the mouse-wheel until the foramen mentale is visible. Point and delay in the upper cross-section to mark the foramen.
2. Add Left Nerve. Continue like in Fig6.2 to 6.4
3. Press „OK“ to continue



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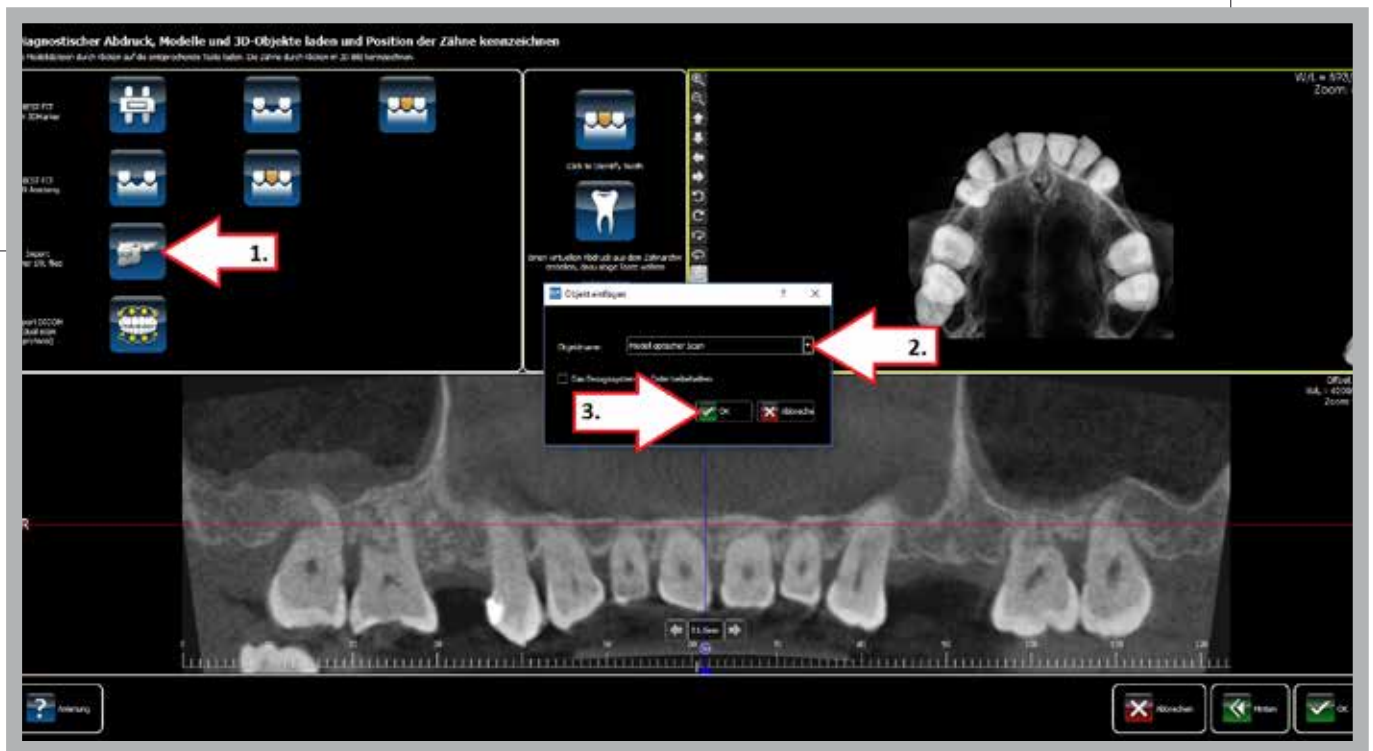
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Fig.7:

Load the diagnostic wax-up, models and 3D-objects and identify the teeth positions:

1. Press „Import other STL files“ to import a model STL
2. Select type of model
3. Press „OK“ to continue and select file in new window



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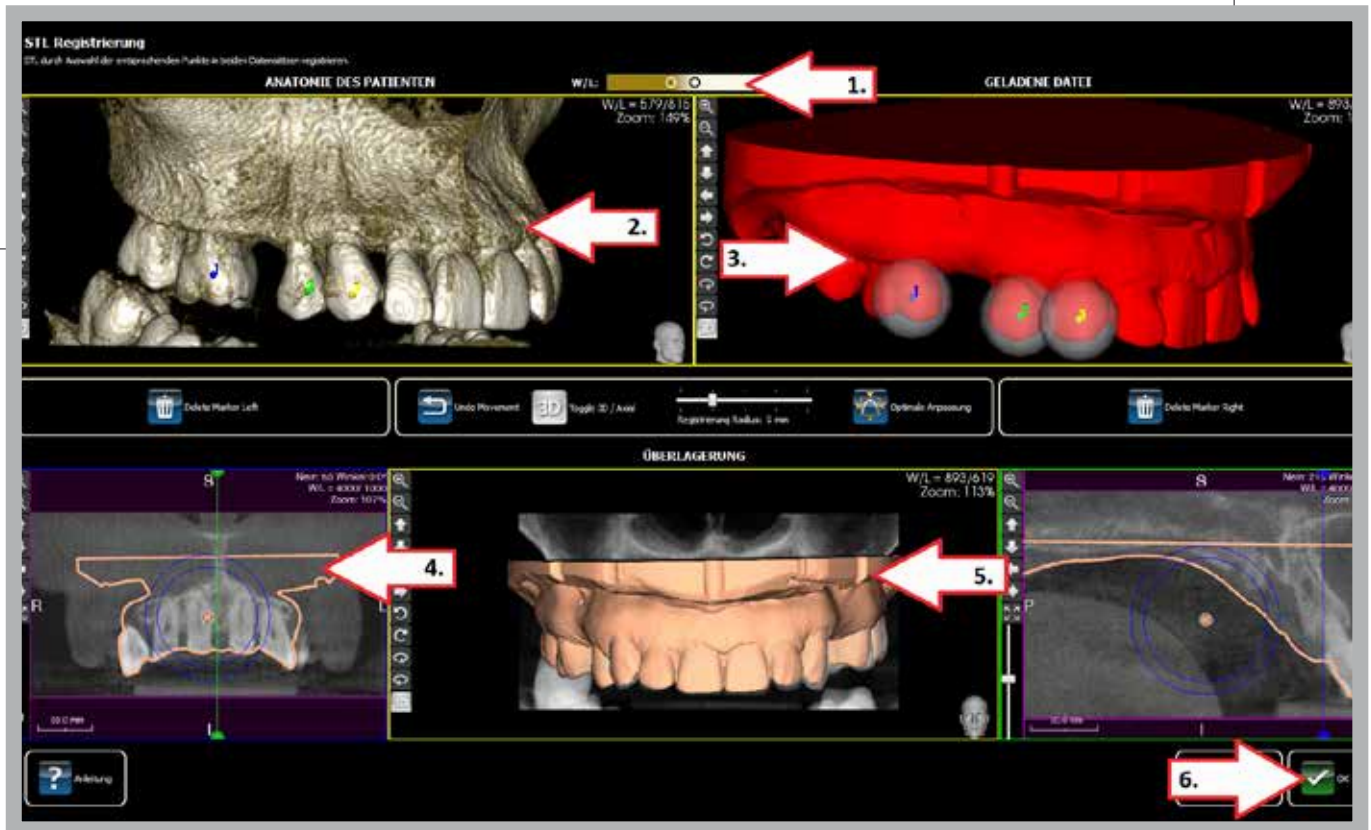
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Fig.8:

### STL Registration:

1. Delay W/L-markers to fade out artifacts
2. +3. Add matching-points on both datasets
4. Rough correction
5. Use 3D-view to control
6. Press „OK“ to continue

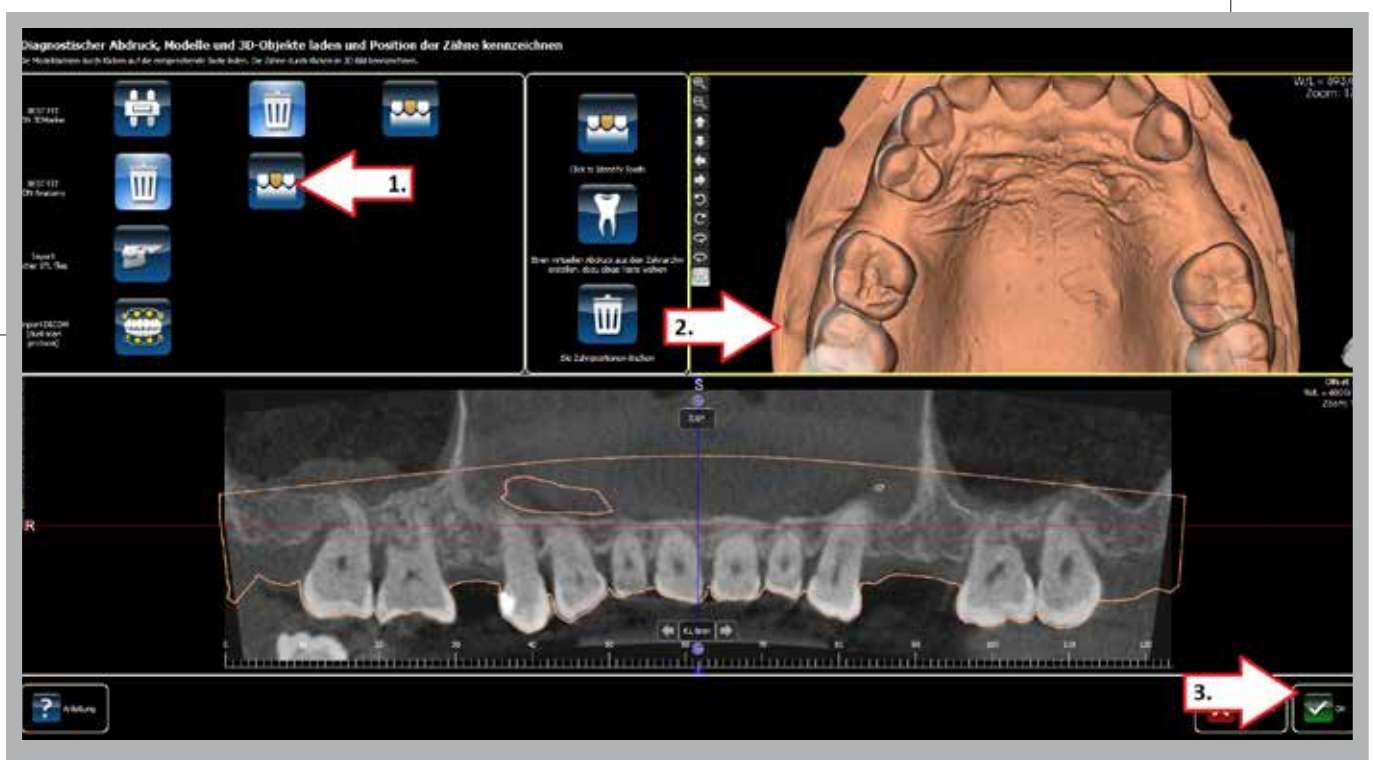


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Fig.9:

1. Press „Import prosthesis/wax-up STL“
2. Select file in new window



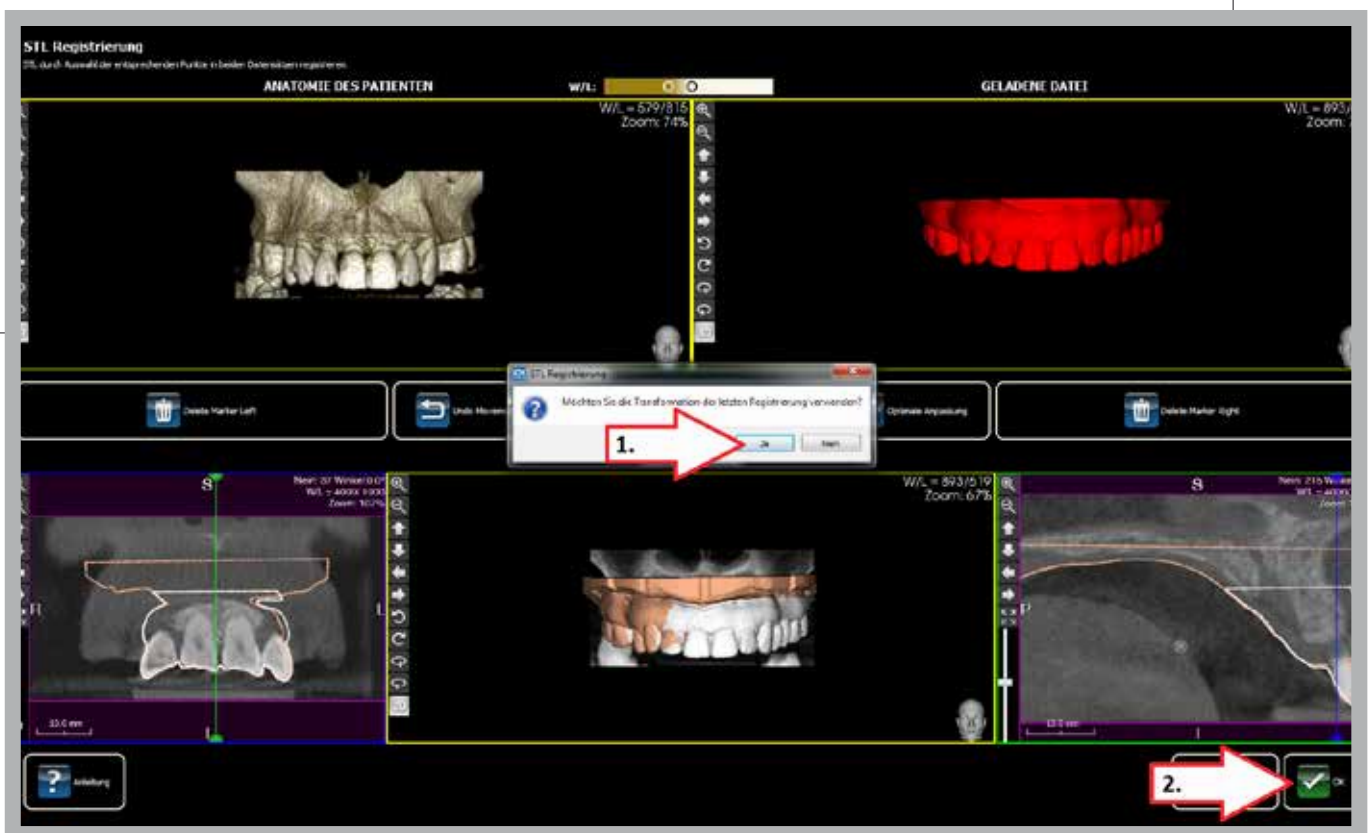


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Fig.10:

1. „Yes“, model will match automatically  
„No“ model must be matched manually (Fig.8)
2. Press „OK“ to continue



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Fig.11:

1. Save
2. Press „View Mode“ and select „MPR“



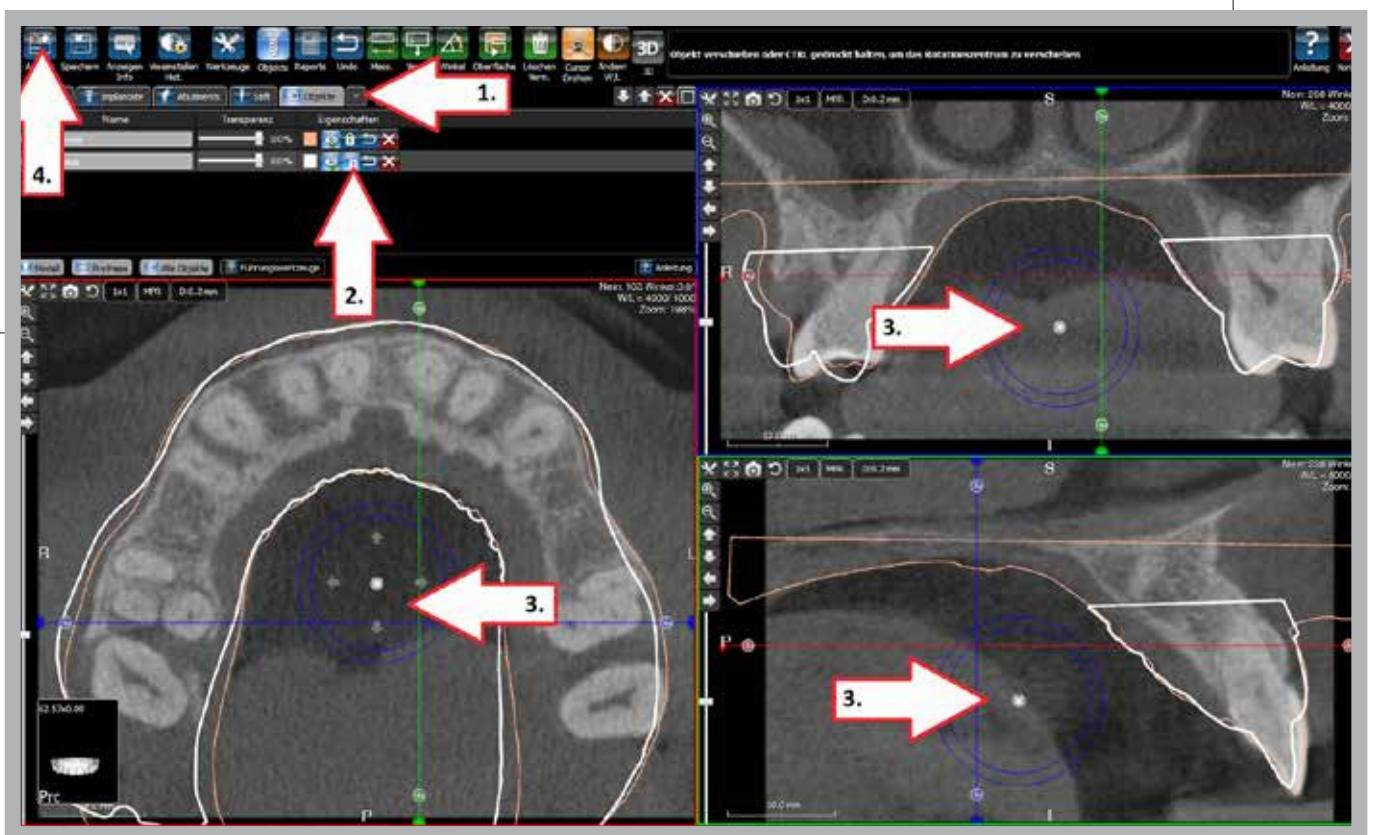
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Fig.12:

1. Press gray arrow and select „Objects“
2. Unlock the object
3. Rotate and move (-2 lock the object)
4. Press „View Mode“ and select „Implant“  
(important: save again)



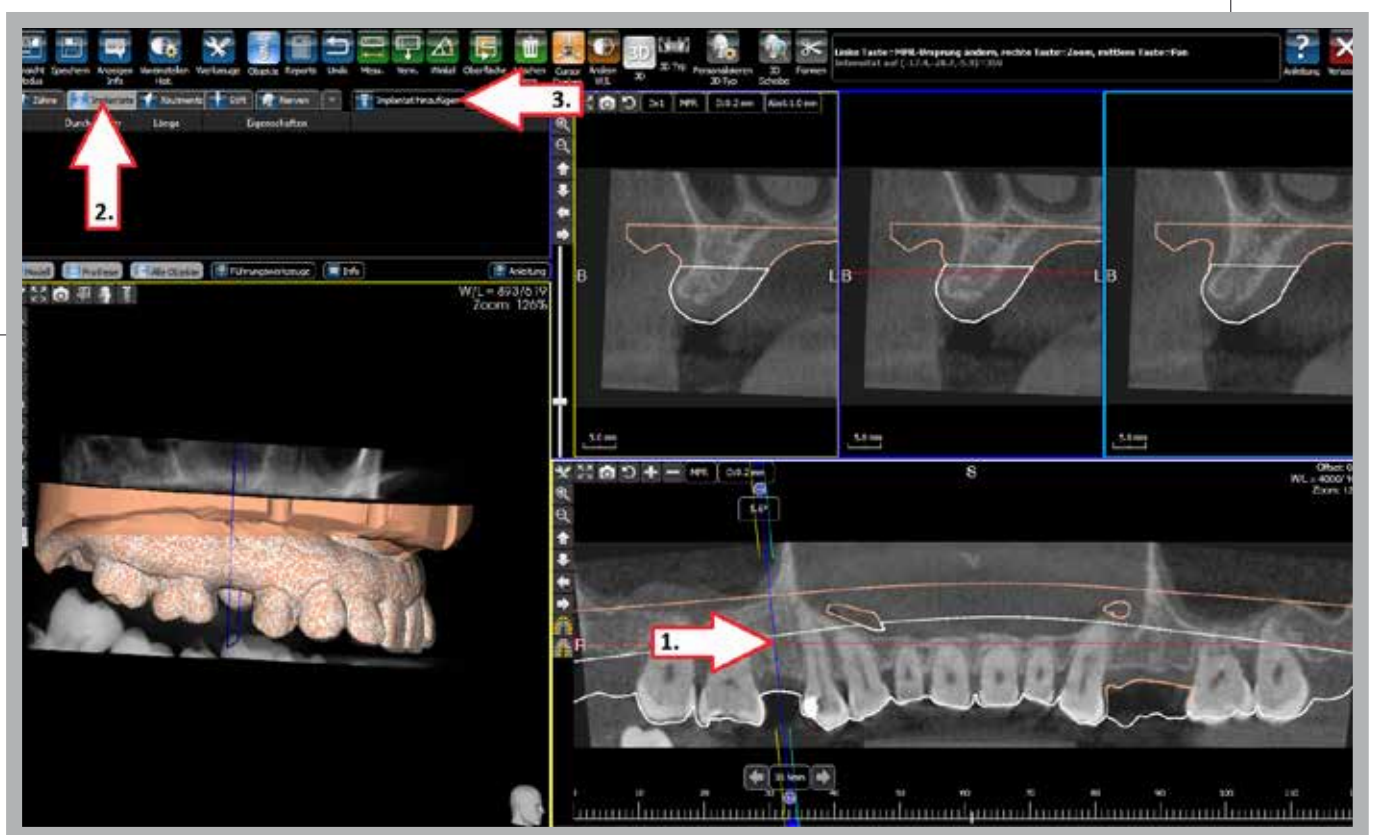
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Fig.13:

1. Positioning of the crosshair (blue line)
2. Select „Implants“
3. „Add Implant“



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Fig.14:

1. Identify Tooth
2. Press „OK“ to continue



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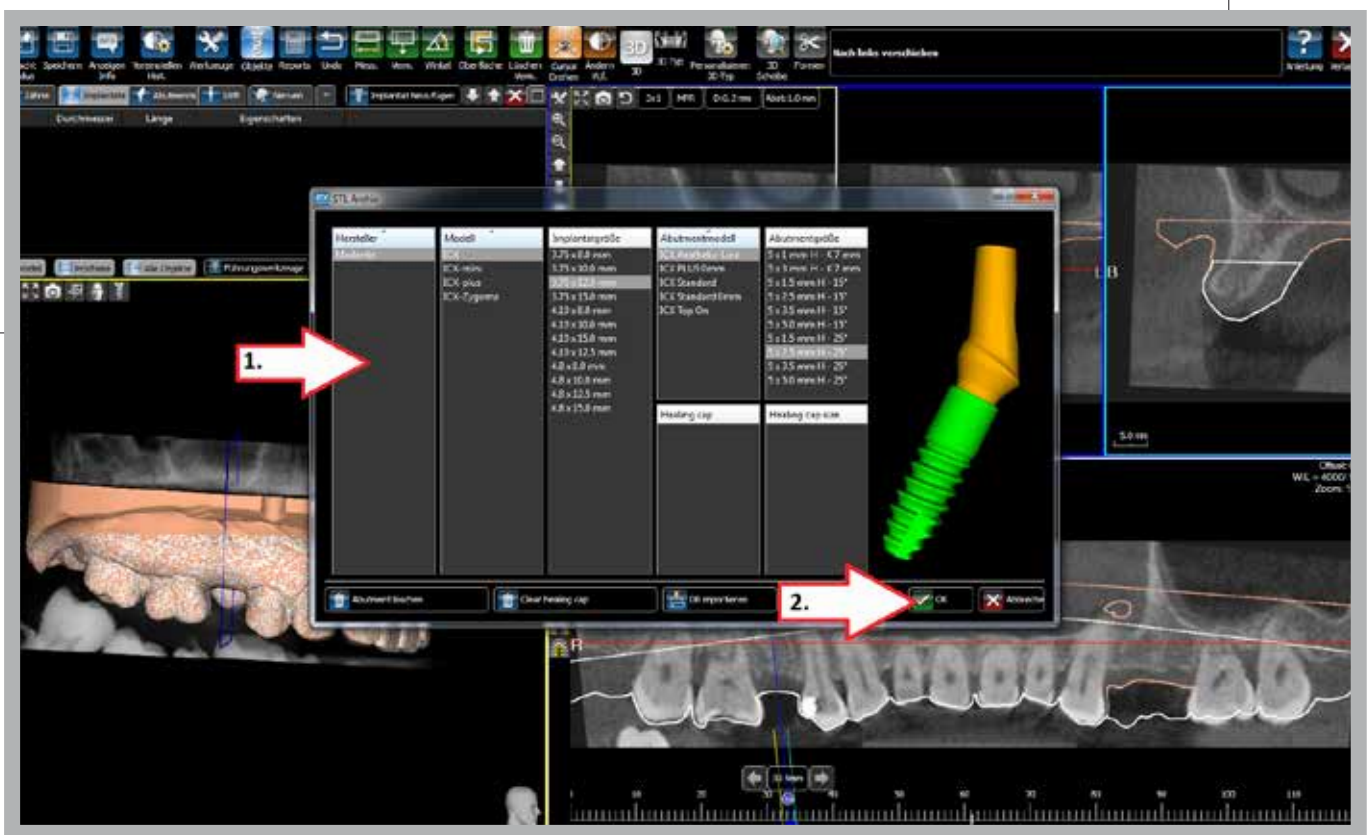


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Fig.15:

1. Select Manufacturer, Model, Implant size, Abutment model and Abutment size
2. Press „OK“ to continue



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Fig.16:

1. Add first point for implant-shoulder  
Add second point for implant-tip
2. Implant (and abutment) appears
3. Adjust the implant
4. Doubleclick in cross-section for enlargement



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Fig.17:

1. Vernier adjustment of the implant
2. Doubleclick in cross-section for reduction



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Fig.18:

- Add a second implant (Fig.13) or examine the implant in another view-mode

1. Press „View Mode“ and select „MPR“



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Fig.19:

1. Press „Snap to Implant“
2. Click one of the planes (red, green, blue) to move through or rotate around the implant
3. Press „View Mode“ and select „Implant“ to get back to the previous view-mode



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Fig.20:

- Edit Report

1. Press „Reports“

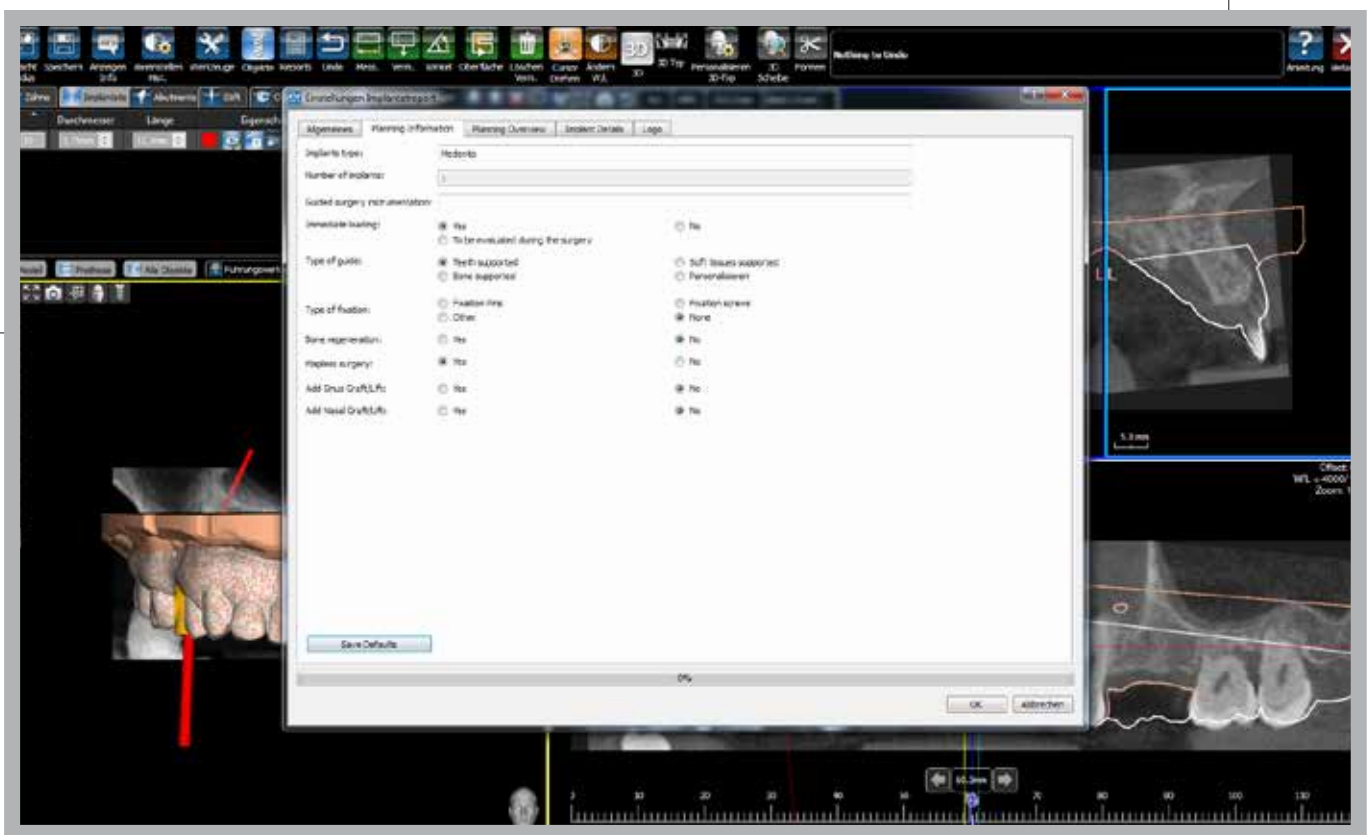


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Fig.21:  
- Fill in the index cards



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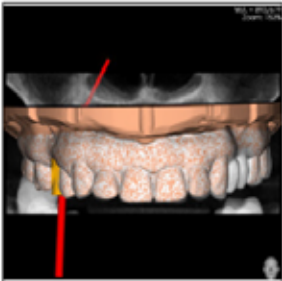
Fig.22:  
Report: Front page

Patient: Test 01  
Date of birth:  
Project: project1


<b>PATIENT INFORMATION</b>	<b>EXAM INFORMATION</b>	<b>PLANNING INFORMATION</b>
<p>Name: Test 01 Date of birth: Clinician: 1 Drug therapies:</p> <p>General health status:</p>	<p>Exam Date: 01/17/2014 Images: 512 Slice thickness: 0.16 Description: SIDEXIS Study</p> <p>Project name: project1 Last modified: 05/07/2015 (13:45:45)</p>	<p>Implants type: Medentis Number of implants: 1 Immediate loading: Yes Type of guide: Teeth supported Type of fixation: None Flapless surgery: Yes Bone regeneration: No Add Sinus Graft/Lift: No Add Nasal Graft/Lift: No</p>

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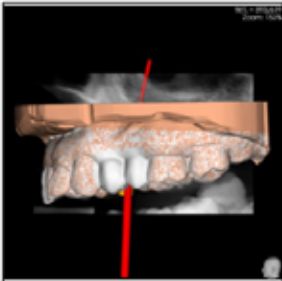
**Frontal view**




**Occlusal view**



**Left view**



**Right view**



The image scale depends on printer settings and might not be in 1:1 ratio, check rulers on images for reference.  
The HU scale depends on acquisition machine calibration, please refer to manufacturer settings and scan settings.

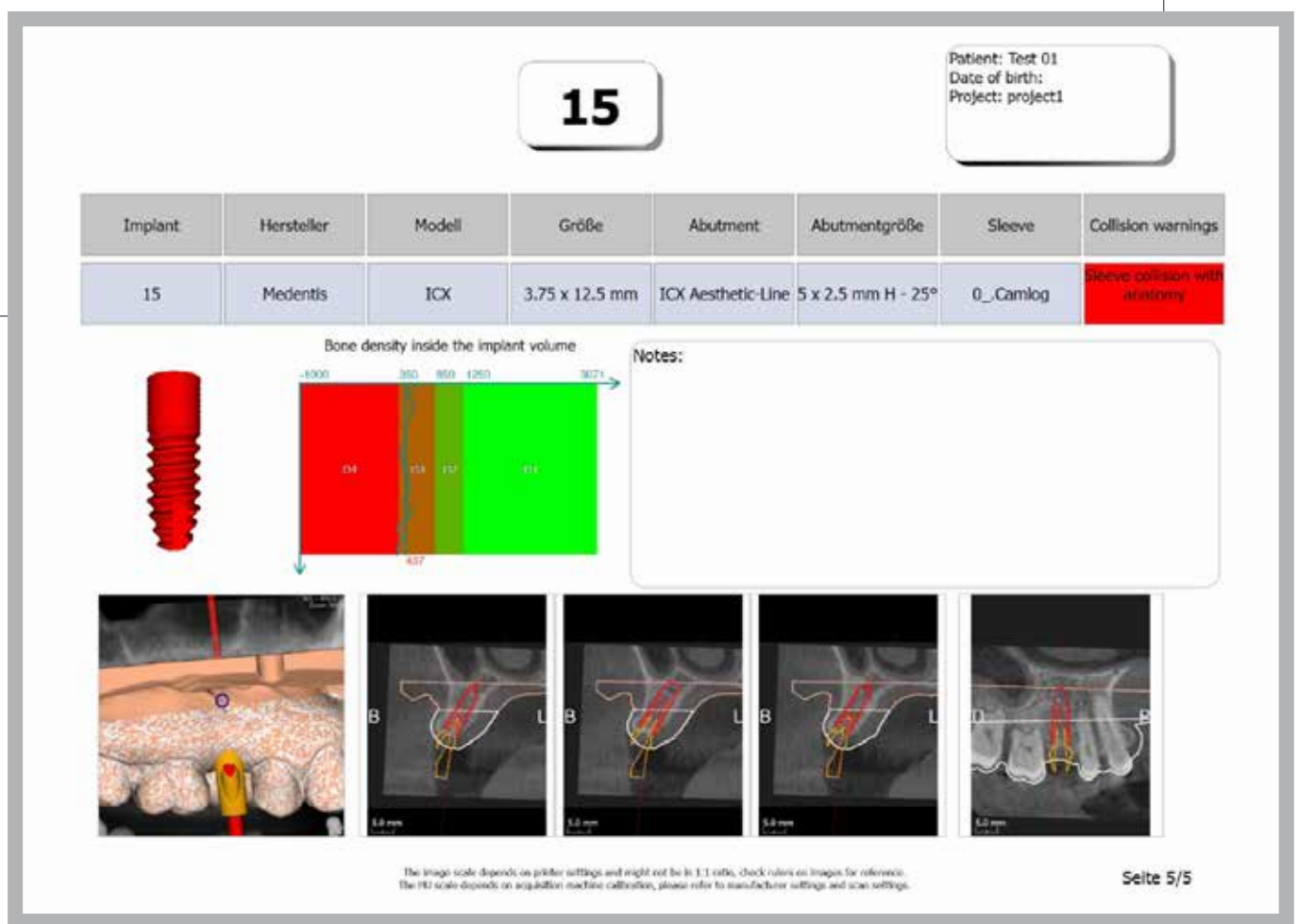
Seite 1/5

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Fig.23:

Report: Page with Manufacturer, Model, Size, ... and Bone density



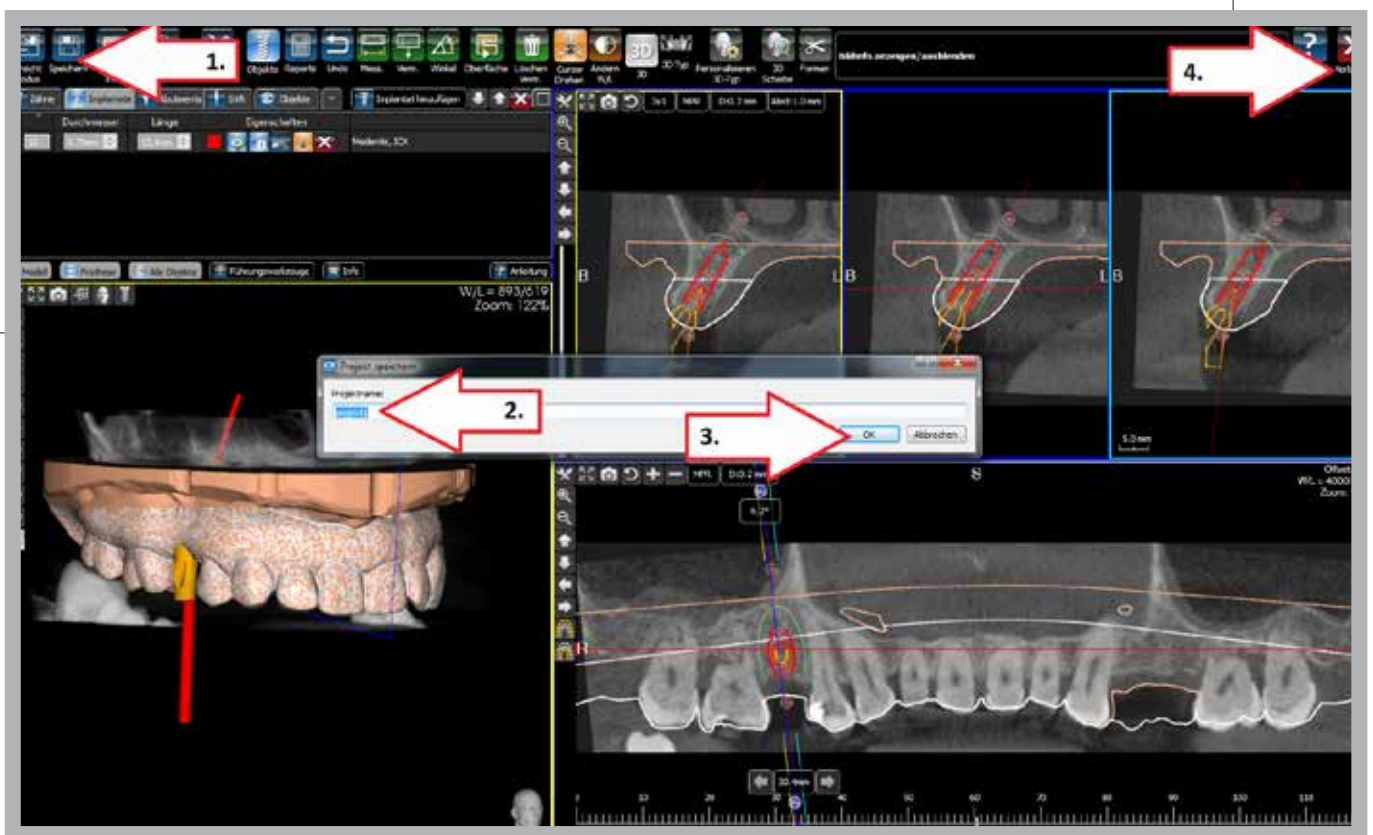
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Fig.24:

Saven: - always use this button in between, the software does not save itself

1. Press „Save“
2. Enter a project name
3. Press „OK“
4. Exit 3D-View



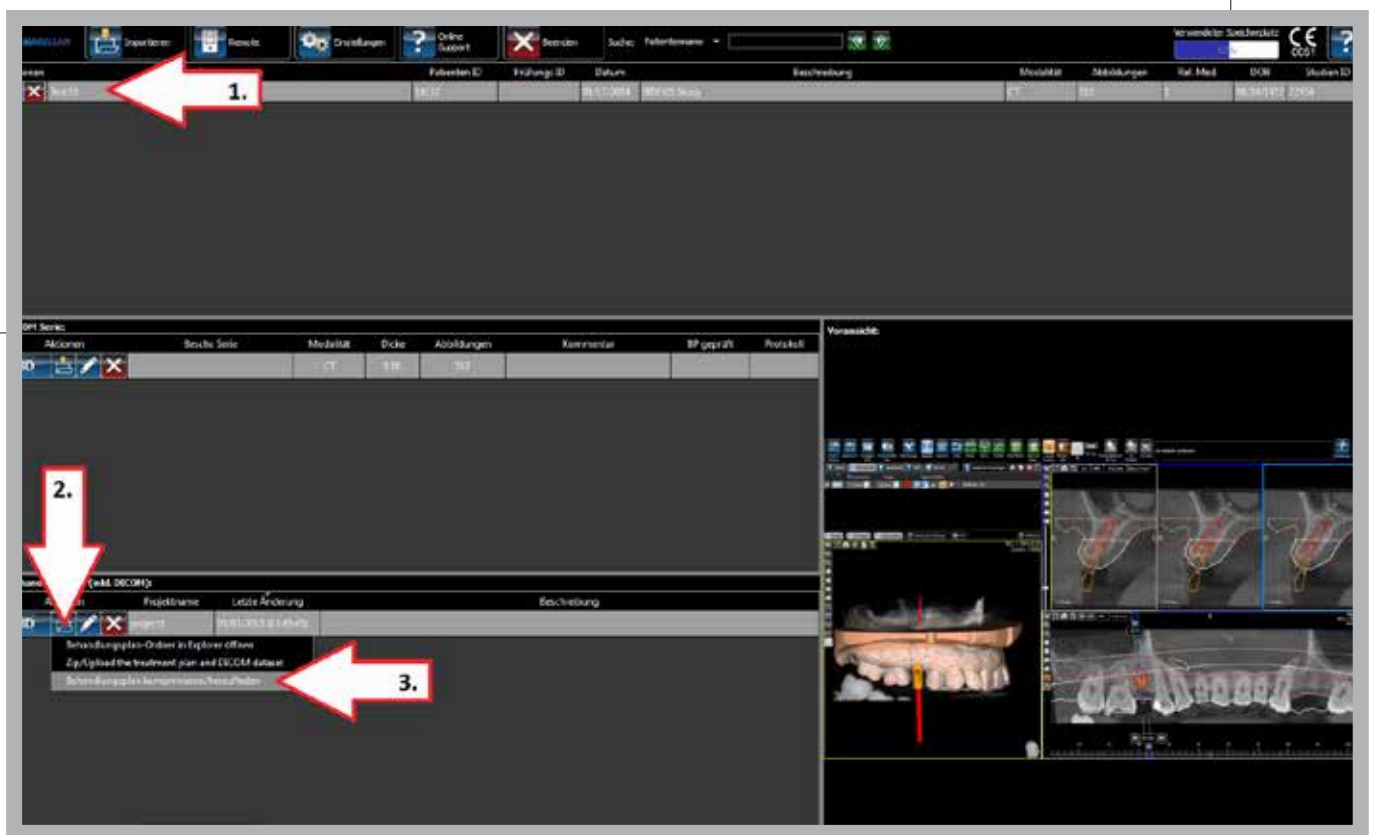


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Fig.25:

1. Select project
2. Export the treatment plan
3. Zip/Upload the treatment plan



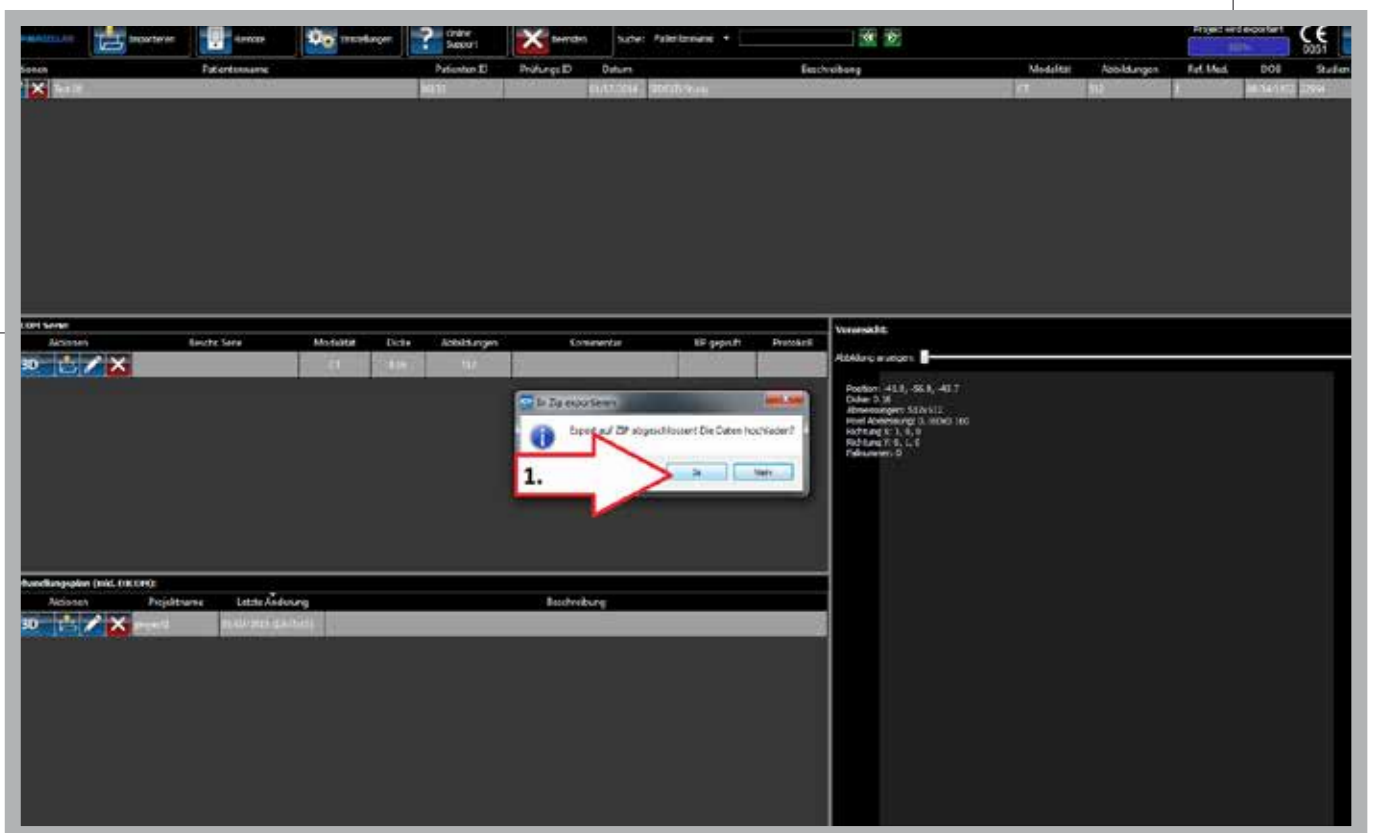
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Fig.26:

After zipping:

1. Press „Yes“ to upload the case to the medentis medical FTP-Server  
-after 5 working days you will receive your individual ICX-Magellan Drillguide



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**Adding a Doublescan:**  
- after finishing the steps until Fig.6 please continue with Fig.31

Fig.31:

1. „Import DICOM (dual scan protocol)“
2. Select file in new window
3. Press „Import“ to continue



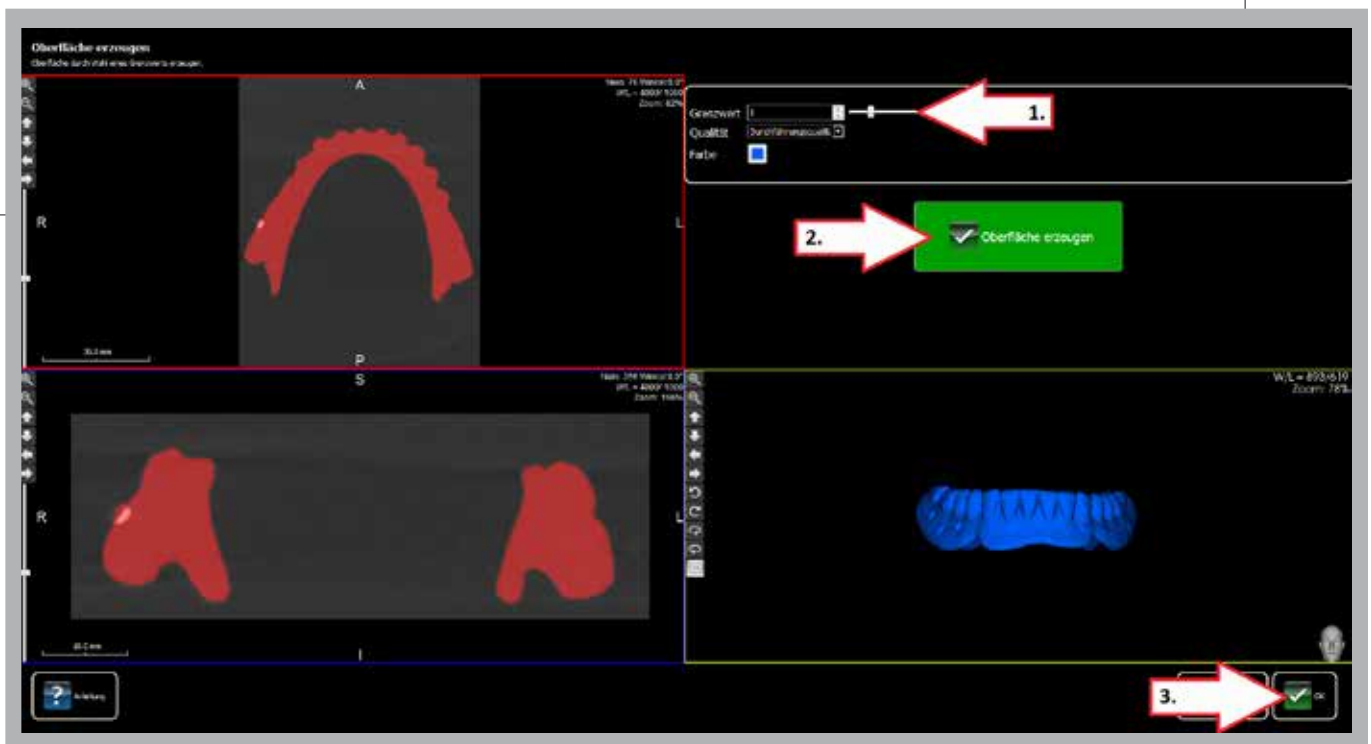
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Fig.32:

1. Adjust the threshold until the prosthesis is pictured red in both left windows
2. Generate Surface



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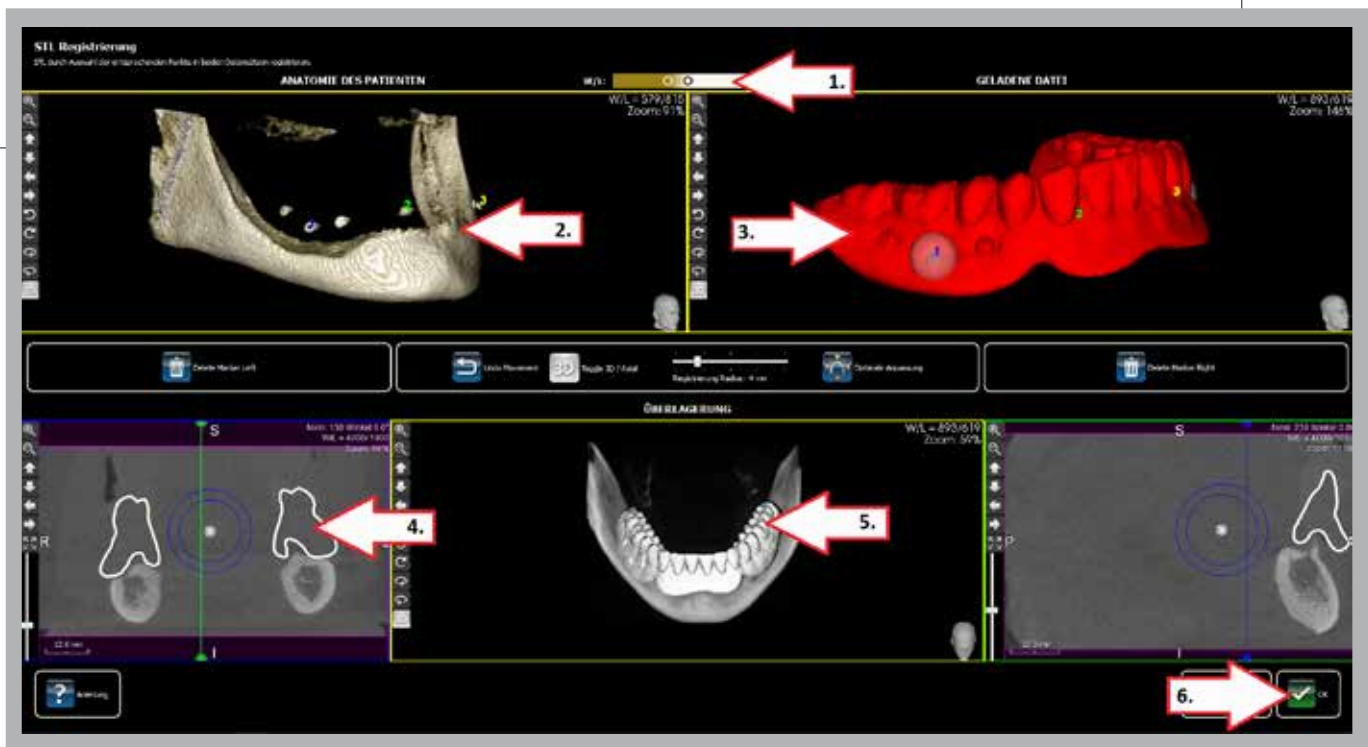
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Fig.33:

### Dicom Registration:

1. Delay W/L-markers to fade out artifacts
- 2.+3. Add matching-points on both datasets
4. Rough correction
5. Use 3D-view to control
6. Press „OK“ to continue

- after finishing the steps from Fig.31 to Fig.33 continue with Fig.11



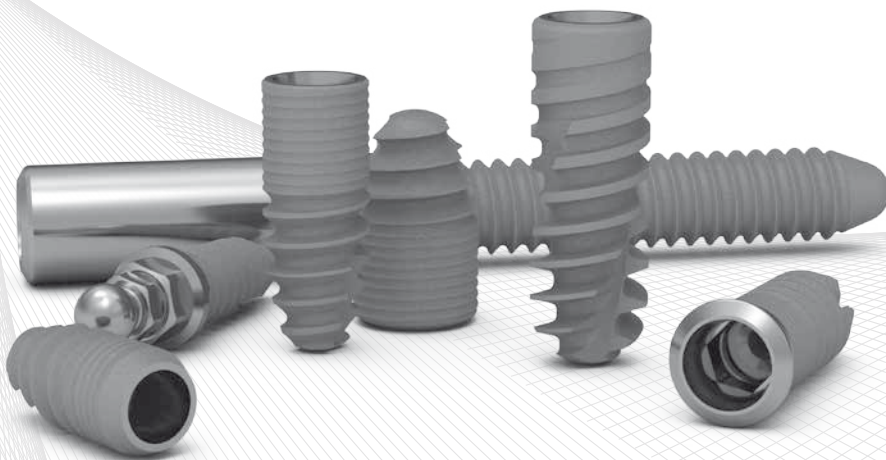


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# ICX

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**THE IMPLANT-SYSTEM OF THE FUTURE.**

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email: [magellan@medentis.de](mailto:magellan@medentis.de)