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Dental Group

ModelPro
Powered By IPD Dental Group

Scan Body Replace User Guide

Dental Group

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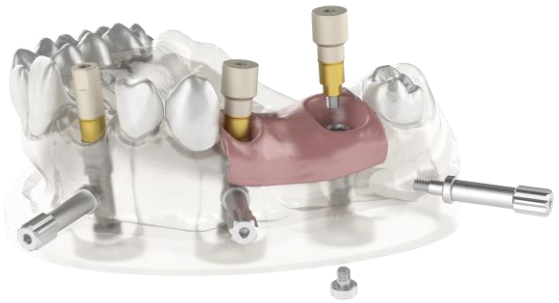
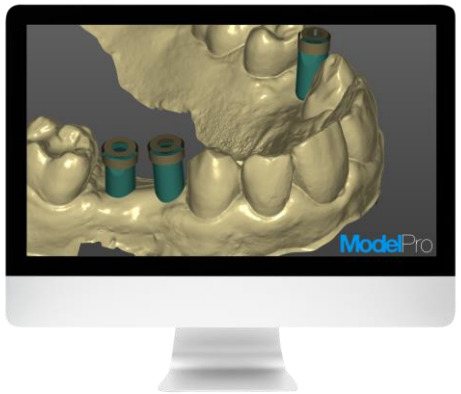


Introducction



Scan Body
Replace

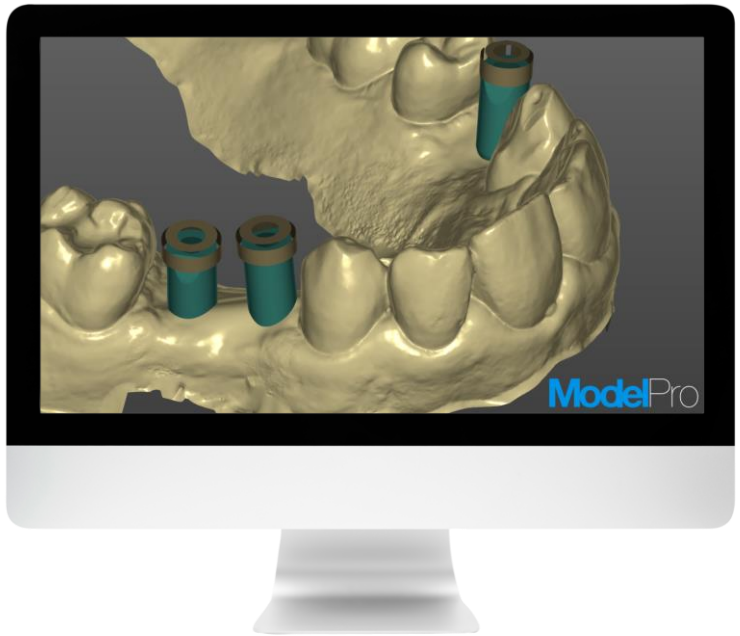
3D Model
Design

Interactive
show

Scan Body Replace

4 simple steps that change it all

- Receive an intra-oral scan within a supported third-party Scan Body
- The replace feature on ModelPro enables to seamlessly swap from a third-party Scan body to the IPD' equivalent in two simple steps.
- Create a 3D model with our exclusive 3D analog
- Get to your CAD software with the IPD STL file to take full advantage of our libraries and components



Scan Body Replace

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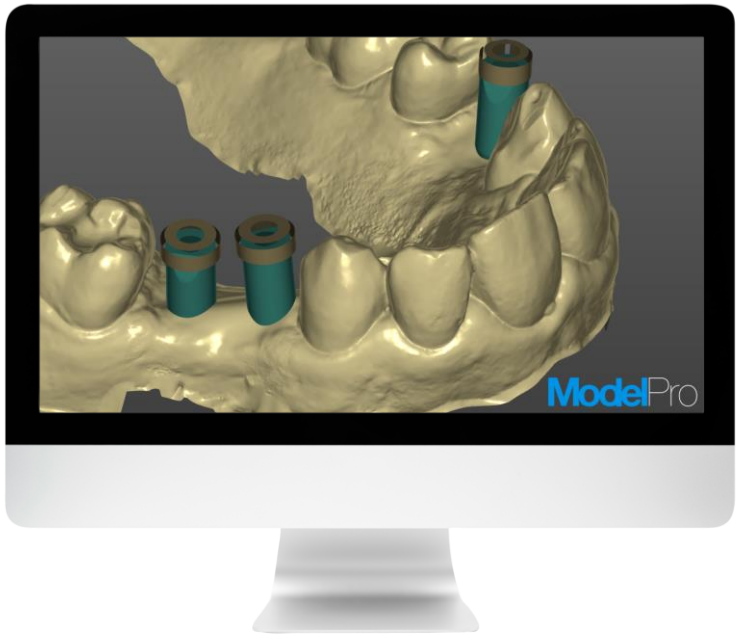
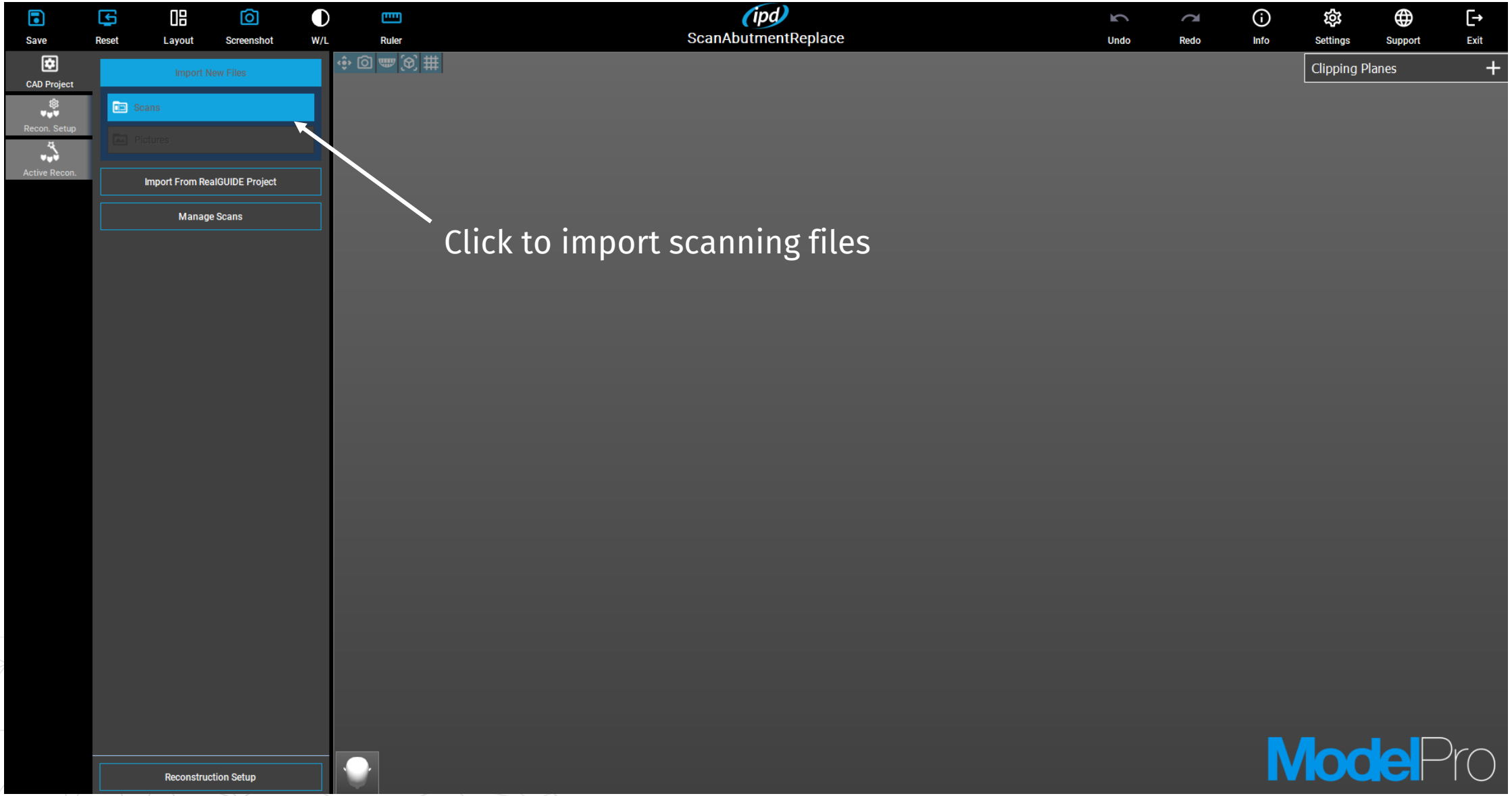
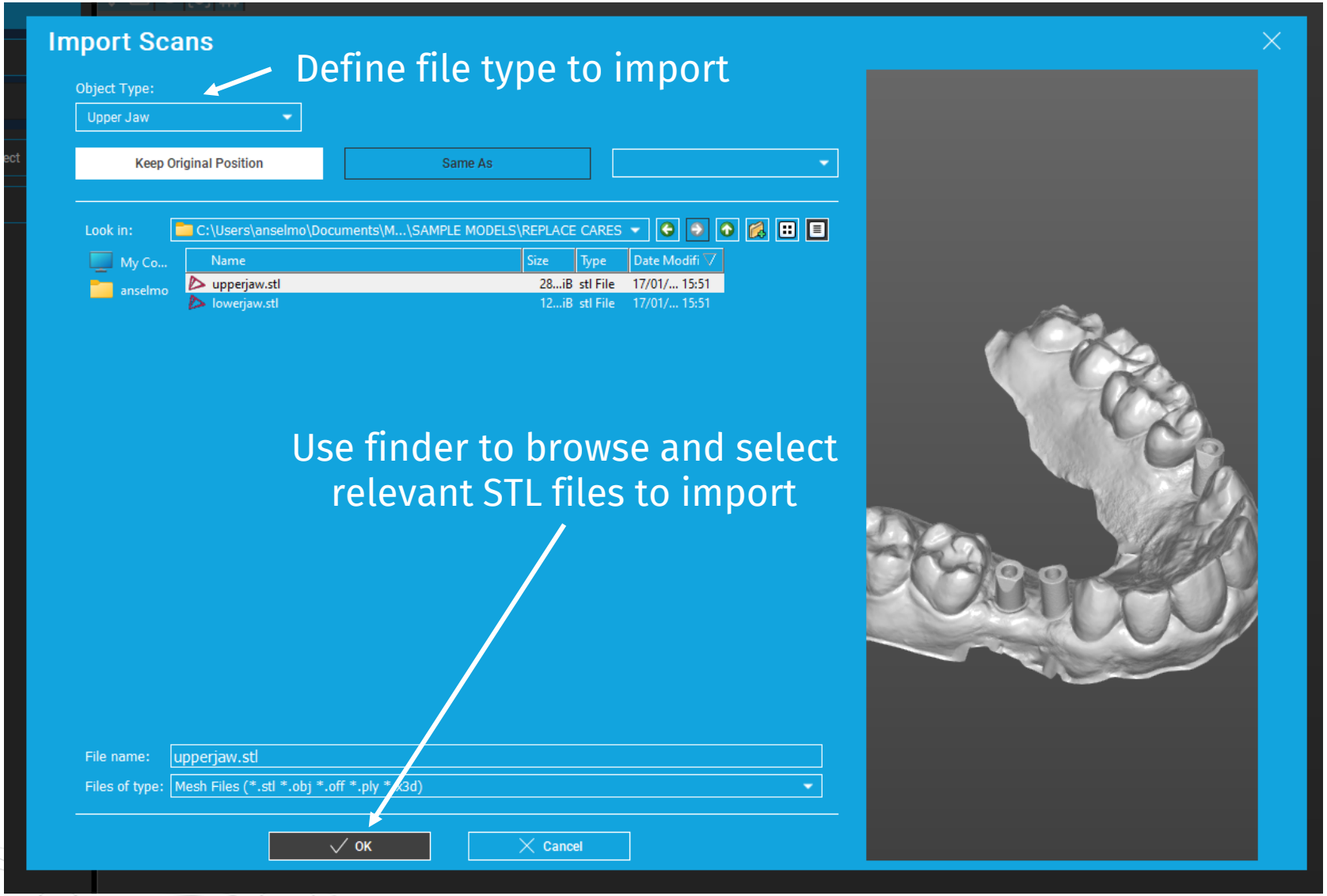
Third-party supported systems*

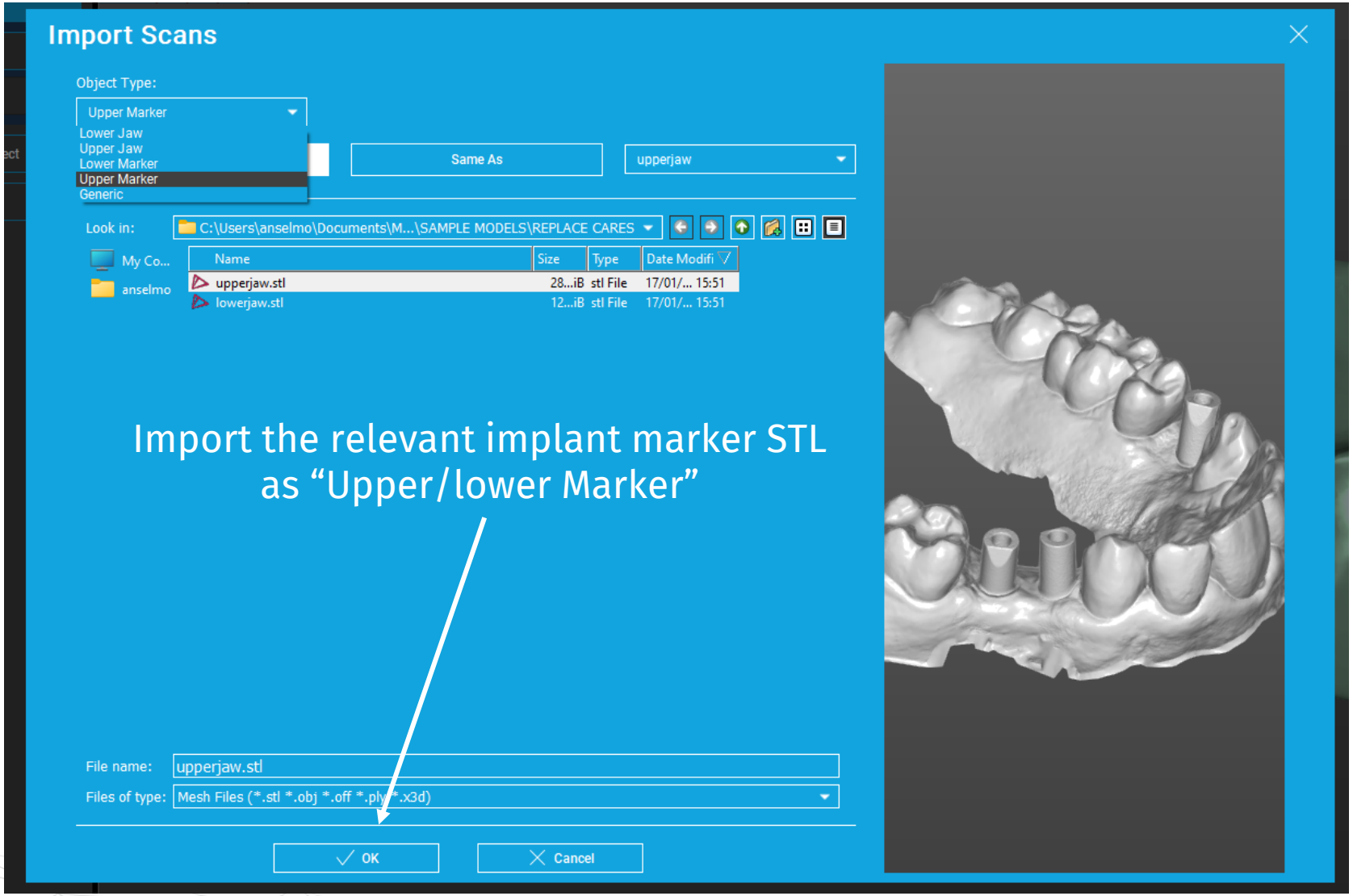
- Camlog®
- BioHorizons®
- CARES® (Straumann)
- DESS®
- ELOS® (Elos Medtech)
- IBO® (Ibodontit)
- JDentalCare®
- Medentika® (Straumann Group)
- Neodent® (Straumann Group)
- New Ancorvis®
- Nobel Biocare™
- SIS® (Smart Implant Solutions)
- Sweden & Martina®
- ZFX™ (Zimmer Biomet)

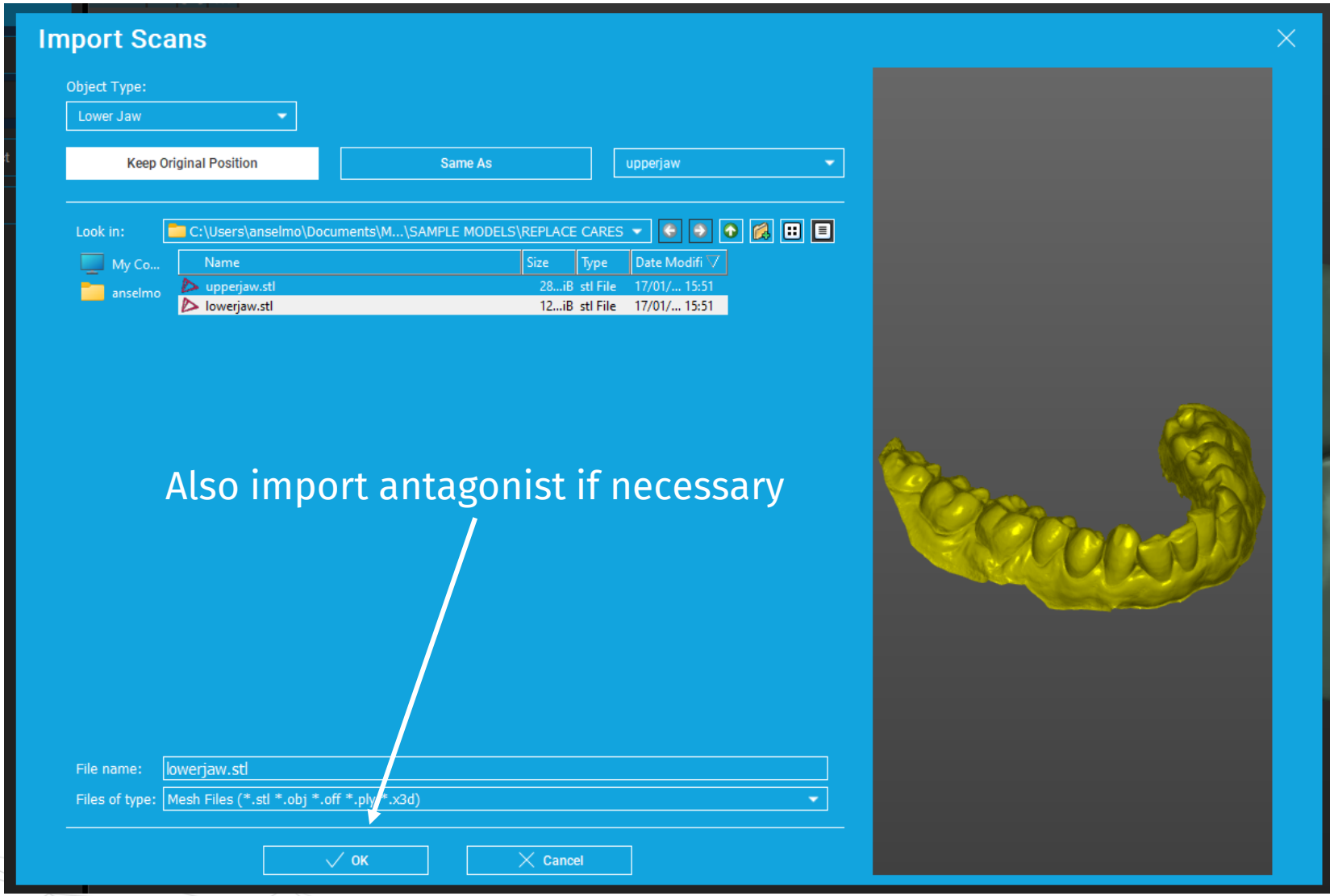


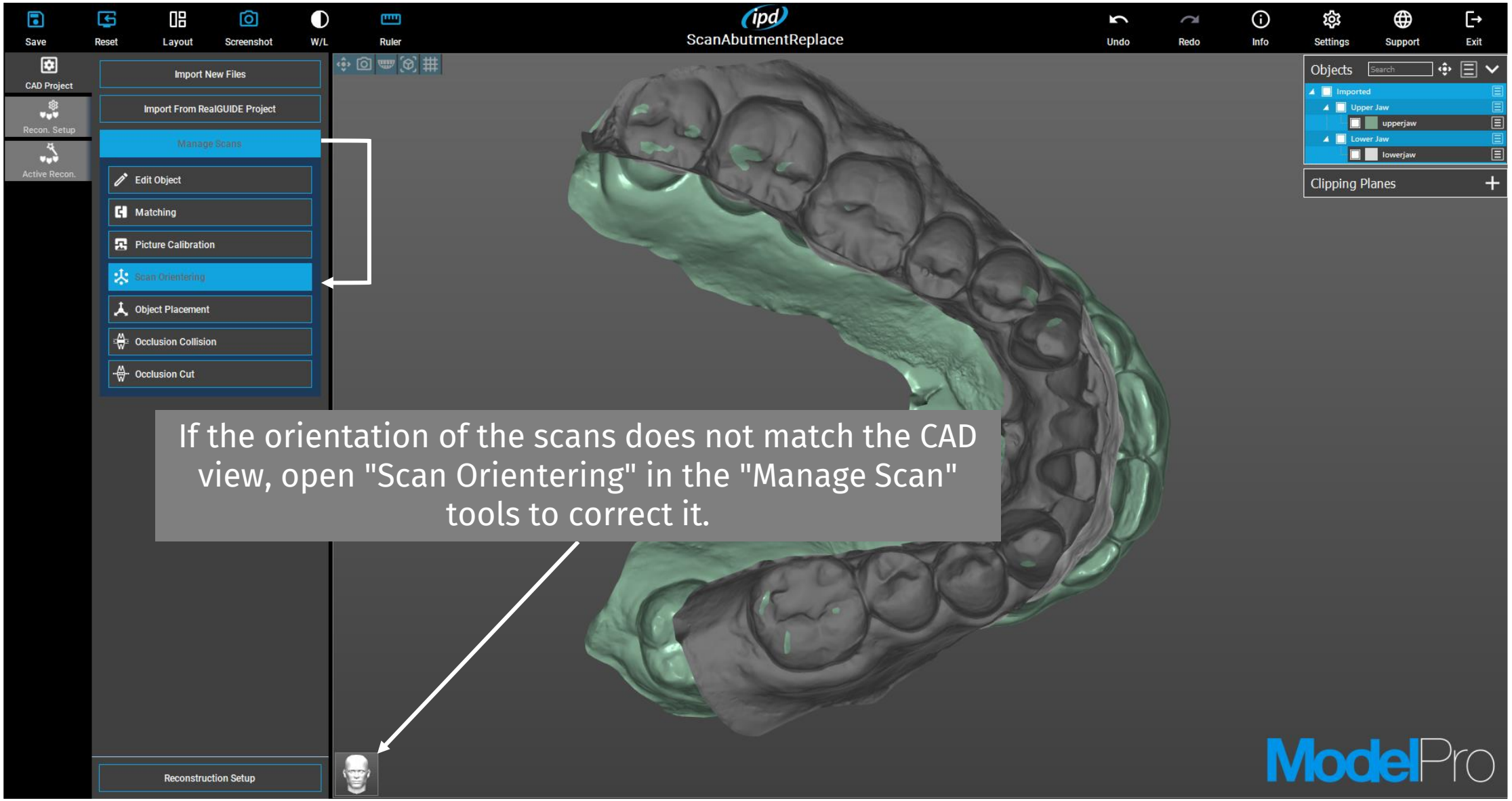
*Only Intra-oral scan bodies systems are supported.


Save
Reset
Layout
Screenshot
W/L
Ruler
ScanAbutmentReplace
Undo
Redo
Info
Settings
Support
Exit
CAD Project
Recon. Setup
Active Recon.
Import New Files
Scans
Pictures
Import From RealGUIDE Project
Manage Scans
Reconstruction Setup
Clipping Planes
Click to import scanning files
ModelPro

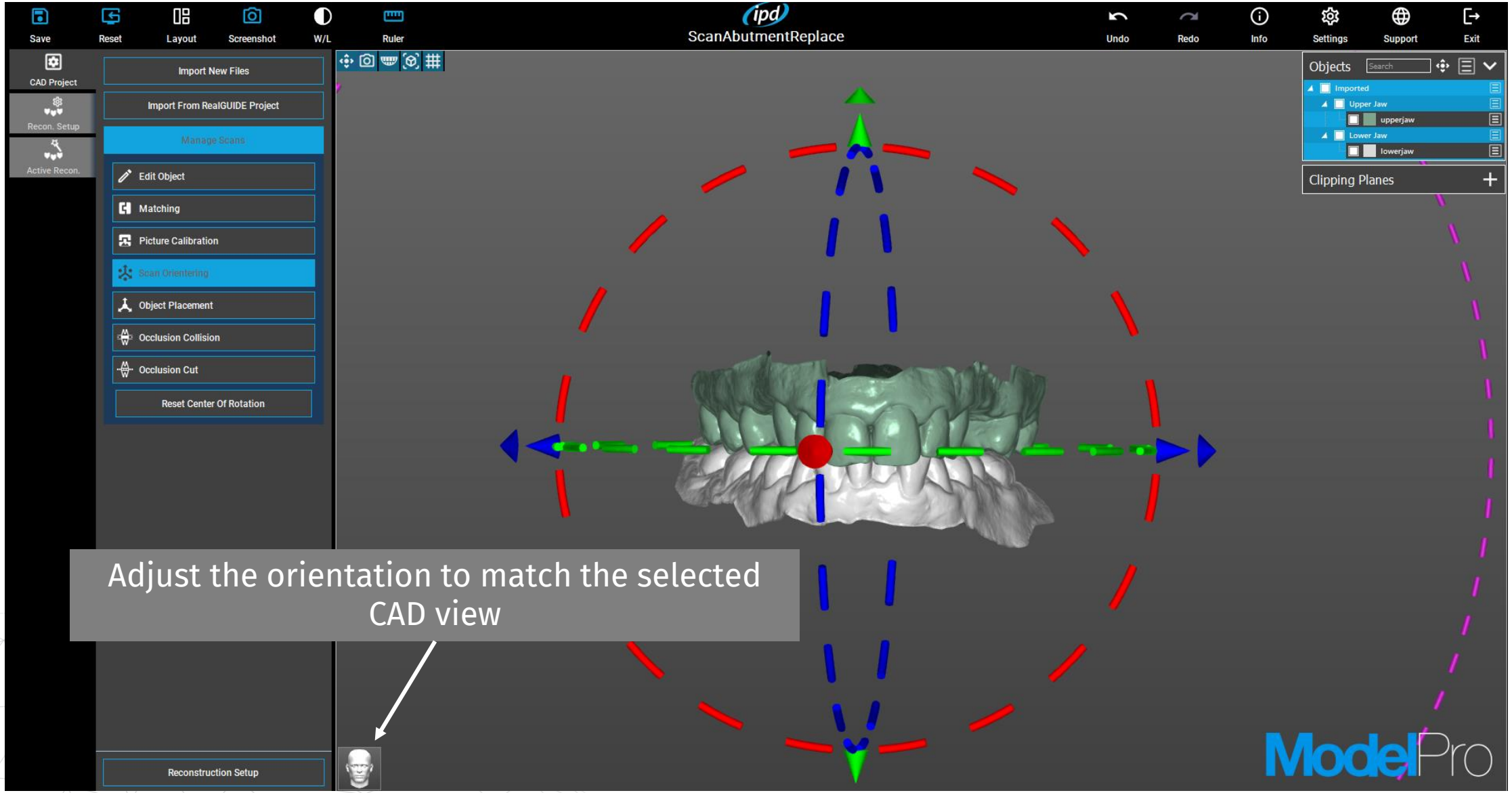

Import Scans
Define file type to import
Object Type:
Upper Jaw
Keep Original Position
Same As
Look in:
C:\Users\anselmo\Documents\M...\SAMPLE MODELS\REPLACE CARES
My Co...
anselmo
Name
Size
Type
Date Modifi
upperjaw.stl
28...iB
stl File
17/01/... 15:51
lowerjaw.stl
12...iB
stl File
17/01/... 15:51
Use finder to browse and select relevant STL files to import
File name:
upperjaw.stl
Files of type:
Mesh Files (*.stl *.obj *.off *.ply *.x3d)
OK
Cancel


Import Scans
Object Type:
Upper Marker
Lower Jaw
Upper Jaw
Lower Marker
Upper Marker
Generic
Same As
upperjaw
Look in:
C:\Users\anselmo\Documents\M...\SAMPLE MODELS\REPLACE CARES
My Co...
anselmo
Name
Size
Type
Date Modifi
upperjaw.stl
28...iB stl File 17/01/... 15:51
lowerjaw.stl
12...iB stl File 17/01/... 15:51
Import the relevant implant marker STL as “Upper/lower Marker”
File name:
upperjaw.stl
Files of type:
Mesh Files (*.stl *.obj *.off *.ply *.x3d)
OK
Cancel

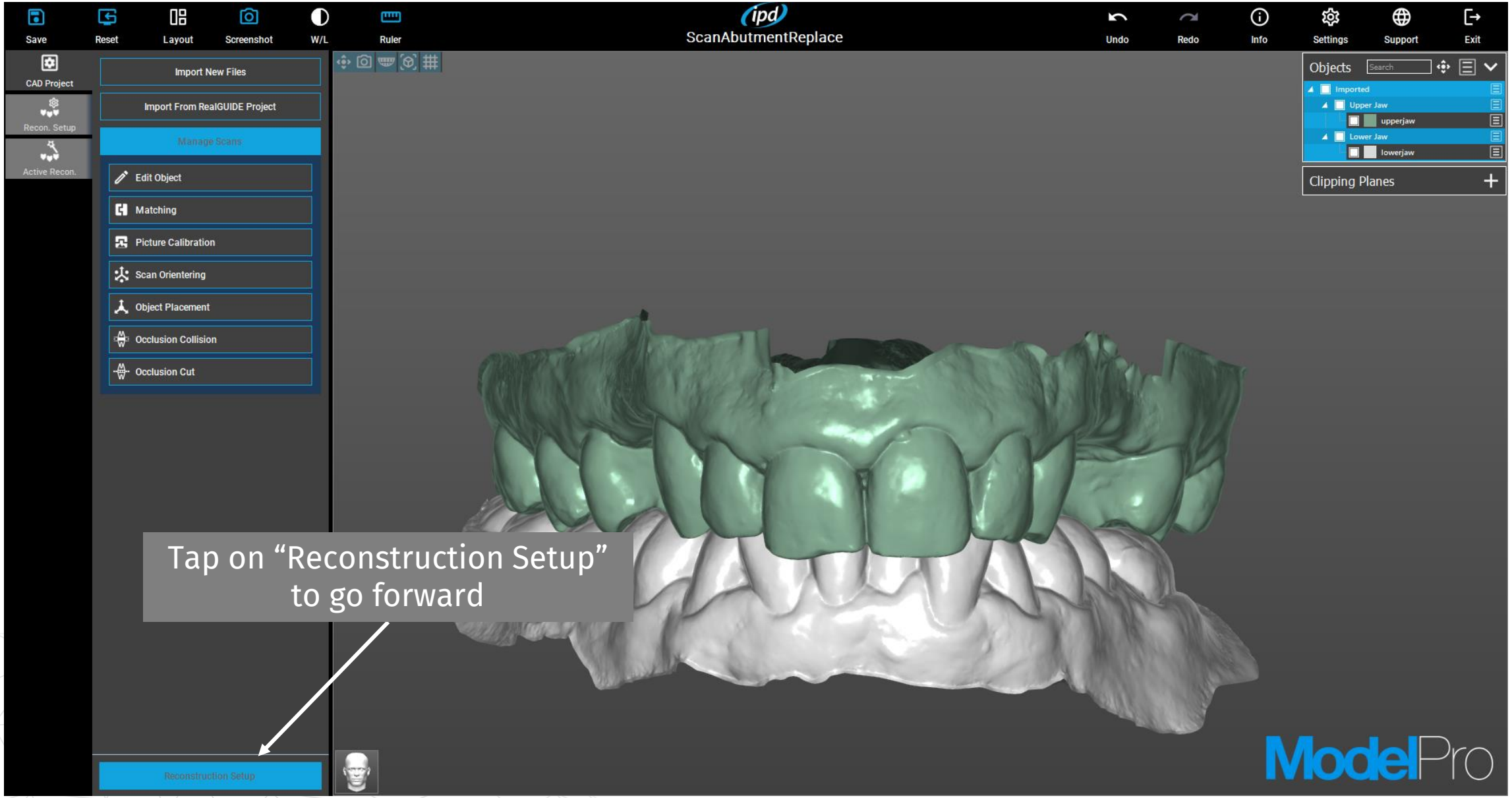

Import Scans
Object Type:
Lower Jaw
Keep Original Position
Same As
upperjaw
Look in:
C:\Users\anselmo\Documents\M...\SAMPLE MODELS\REPLACE CARES
My Co...
anselmo
Name
Size
Type
Date Modifi
upperjaw.stl
28...iB
stl File
17/01/... 15:51
lowerjaw.stl
12...iB
stl File
17/01/... 15:51
Also import antagonist if necessary
File name:
lowerjaw.stl
Files of type:
Mesh Files (*.stl *.obj *.off *.ply *.x3d)
OK
Cancel



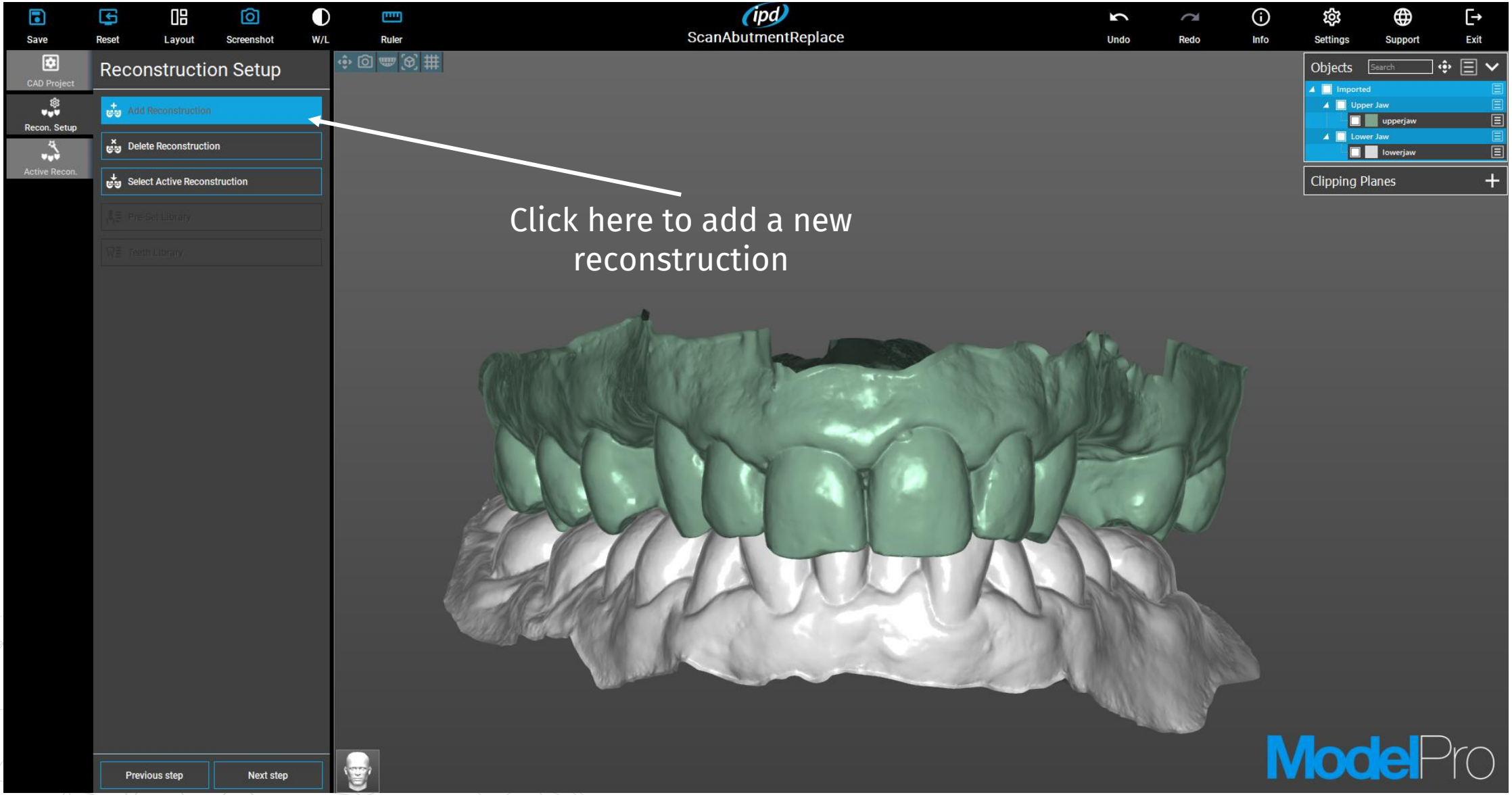
If the orientation of the scans does not match the CAD view, open "Scan Orientering" in the "Manage Scan" tools to correct it.

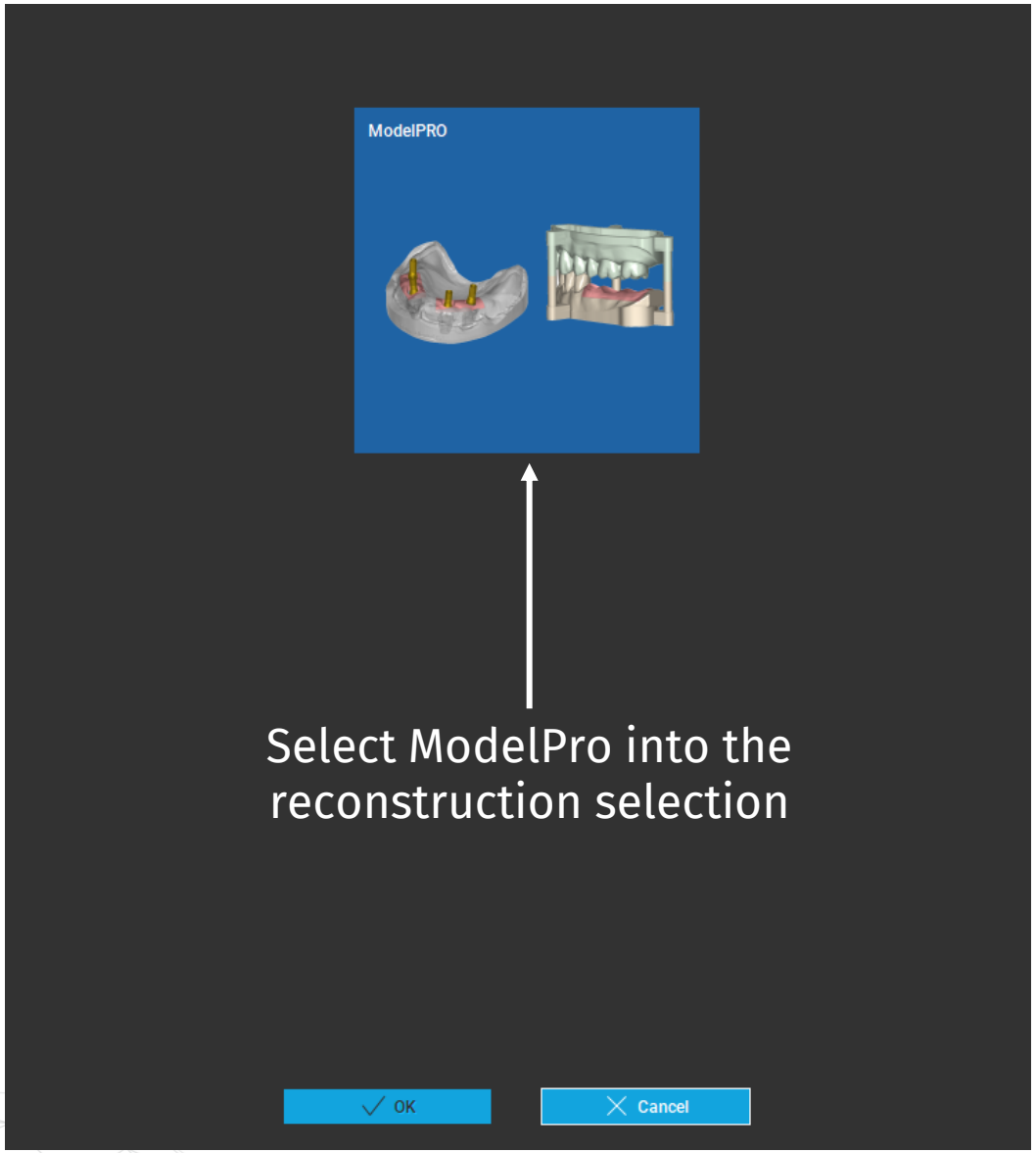


Adjust the orientation to match the selected CAD view

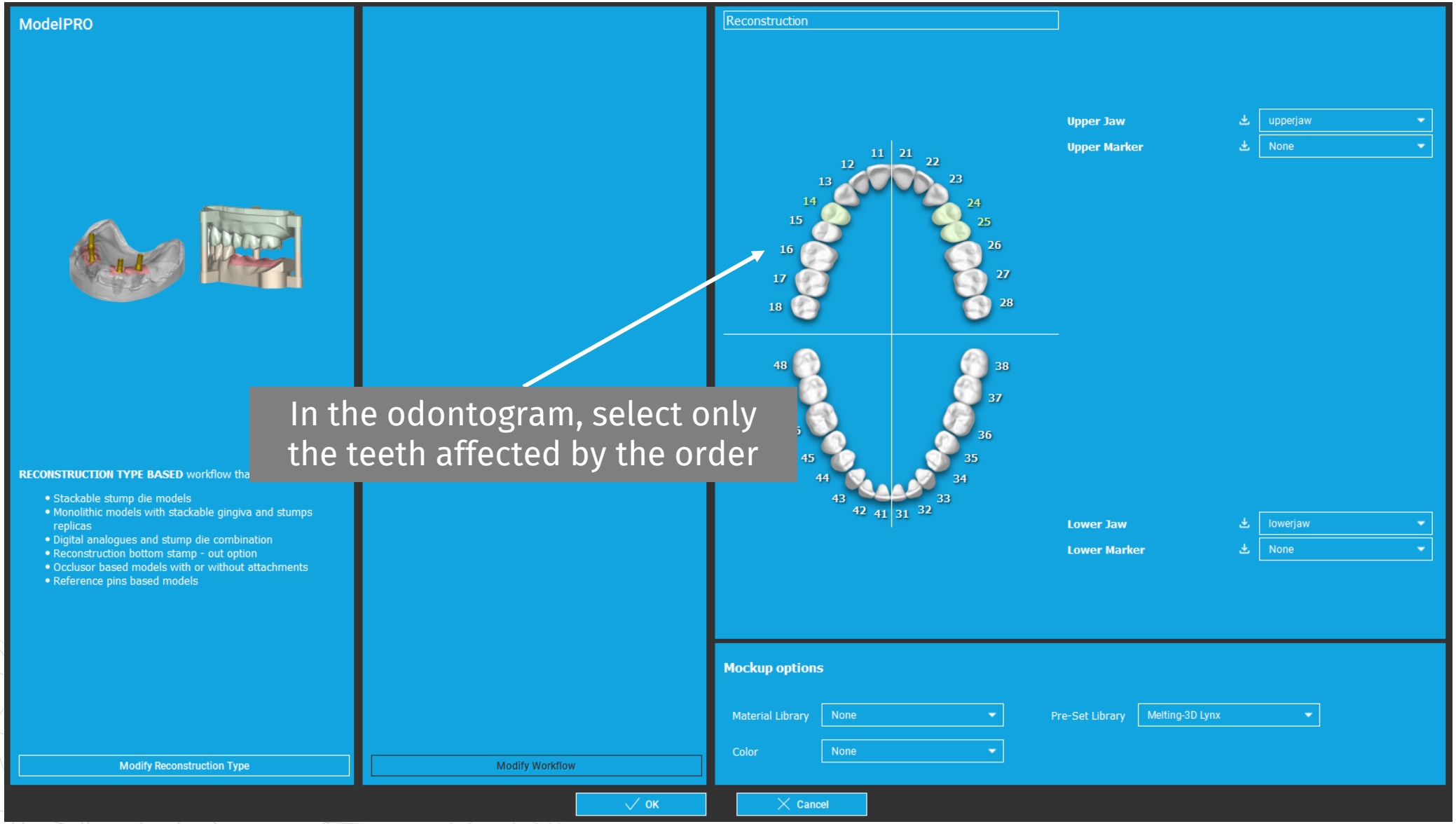


Tap on “Reconstruction Setup” to go forward

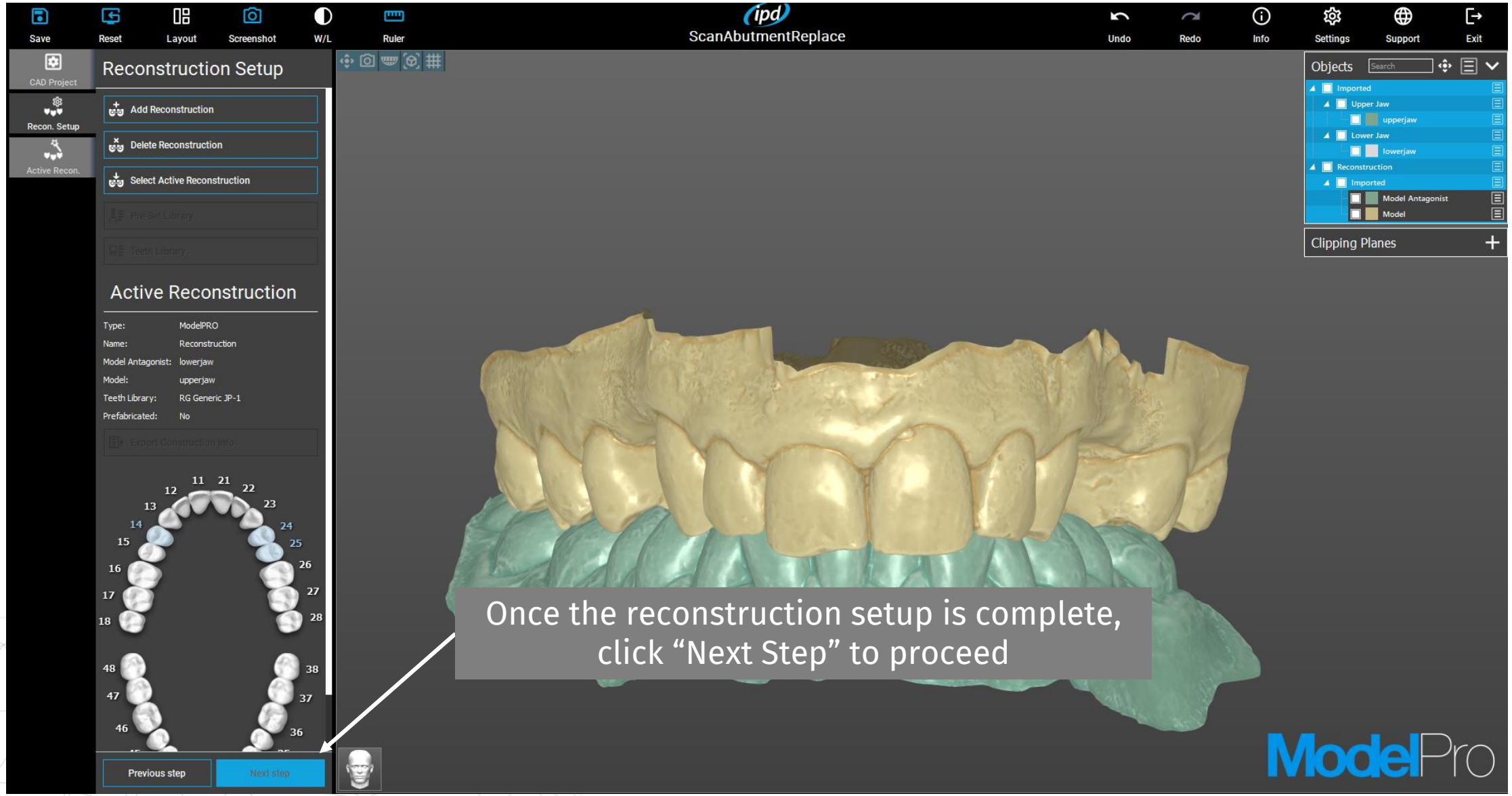

Save
Reset
Layout
Screenshot
W/L
Ruler
ScanAbutmentReplace
Undo
Redo
Info
Settings
Support
Exit
CAD Project
Recon. Setup
Active Recon.
Reconstruction Setup
Add Reconstruction
Delete Reconstruction
Select Active Reconstruction
Pre-Set Library
Teeth Library
Previous step
Next step
Objects
Search
Imported
Upper Jaw
upperjaw
Lower Jaw
lowerjaw
Clipping Planes
Click here to add a new reconstruction
ModelPro



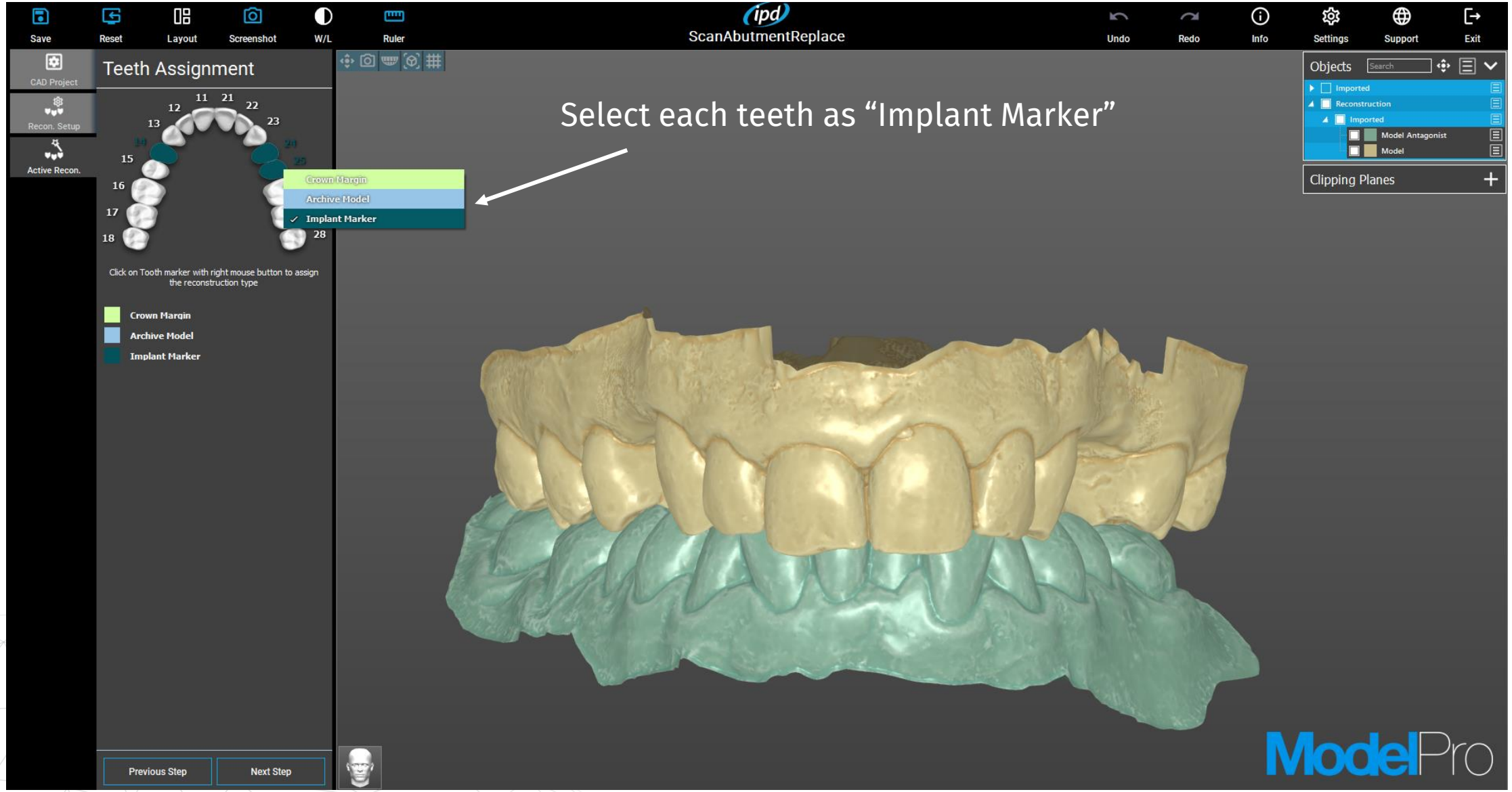
Select ModelPro into the reconstruction selection

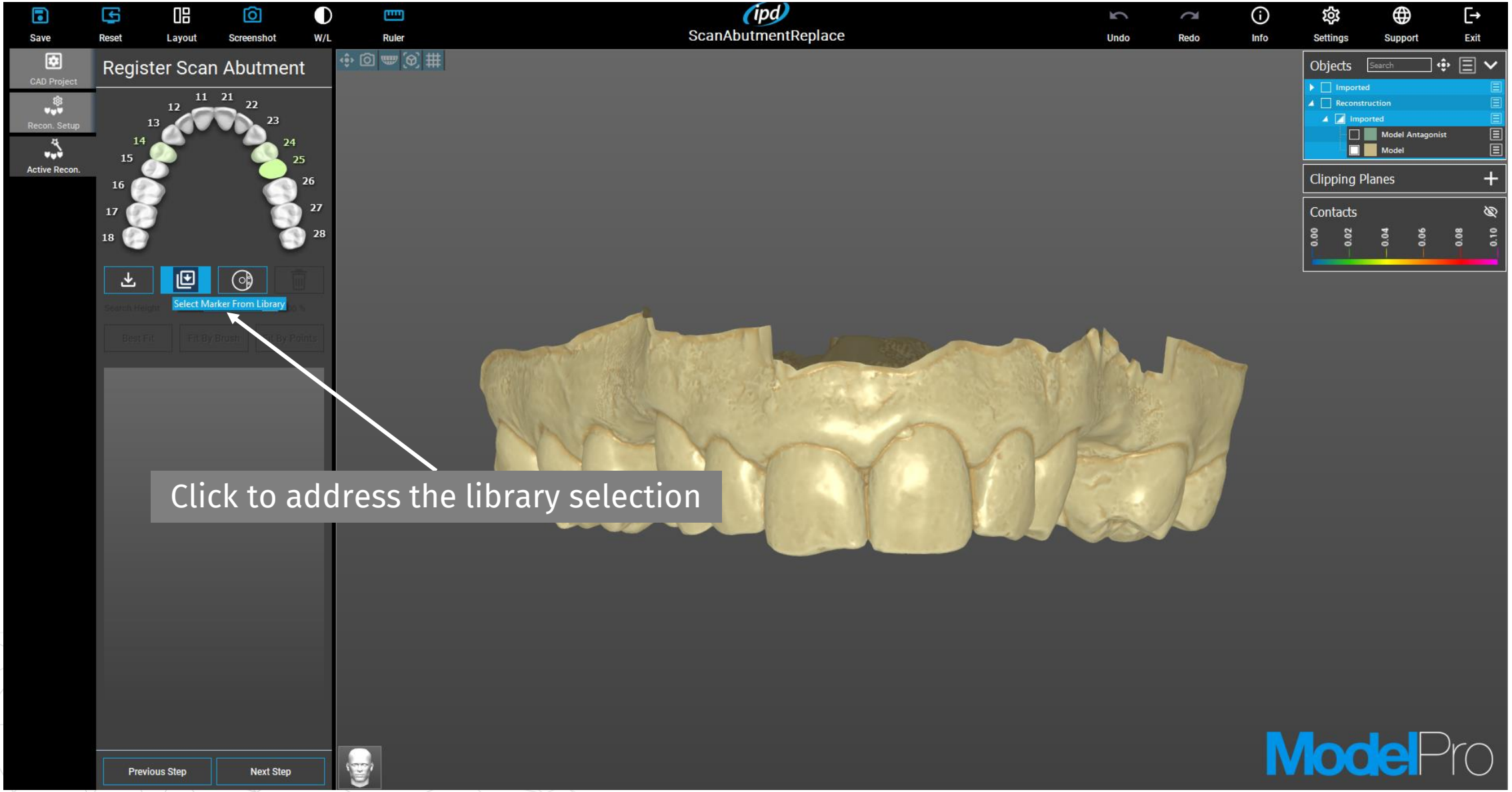


In the odontogram, select only the teeth affected by the order

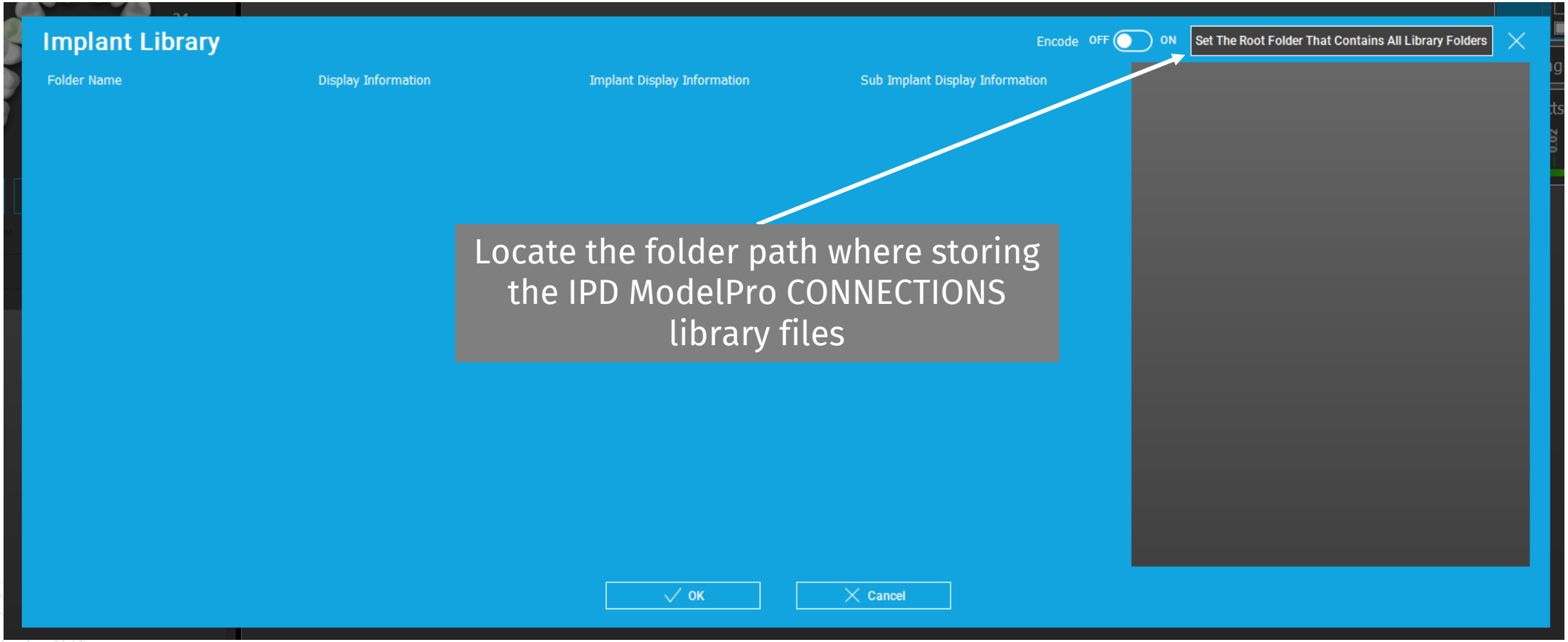


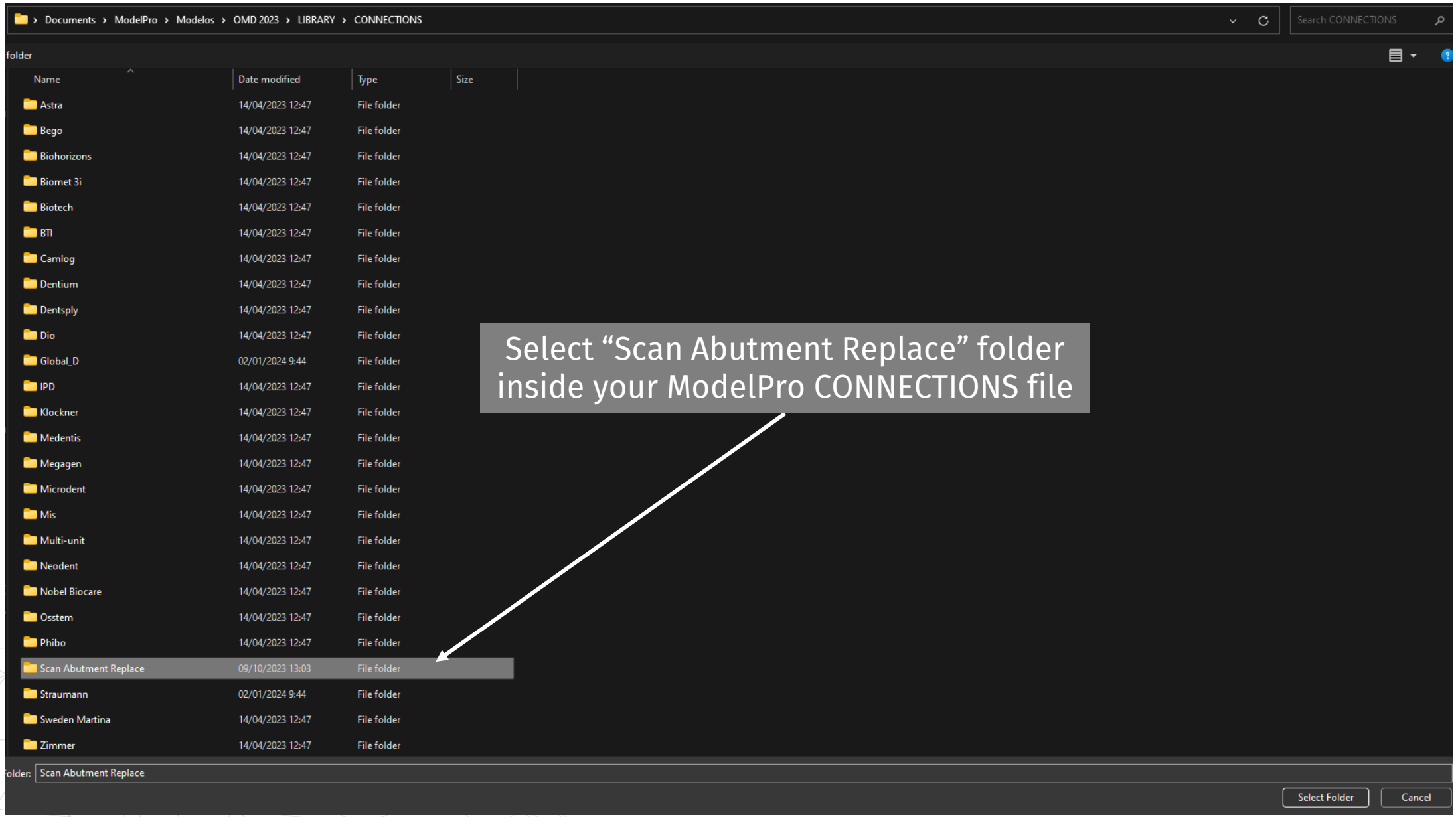
Once the reconstruction setup is complete, click “Next Step” to proceed


Save
Reset
Layout
Screenshot
W/L
Ruler
ScanAbutmentReplace
Undo
Redo
Info
Settings
Support
Exit
CAD Project
Recon. Setup
Active Recon.
Teeth Assignment
11 21
12 22
13 23
14 24
15 25
16
17
18 28
Crown Margin
Archive Model
Implant Marker
Click on Tooth marker with right mouse button to assign the reconstruction type
Crown Margin
Archive Model
Implant Marker
Previous Step
Next Step
Select each teeth as “Implant Marker”
Objects
Search
Imported
Reconstruction
Imported
Model Antagonist
Model
Clipping Planes
ModelPro

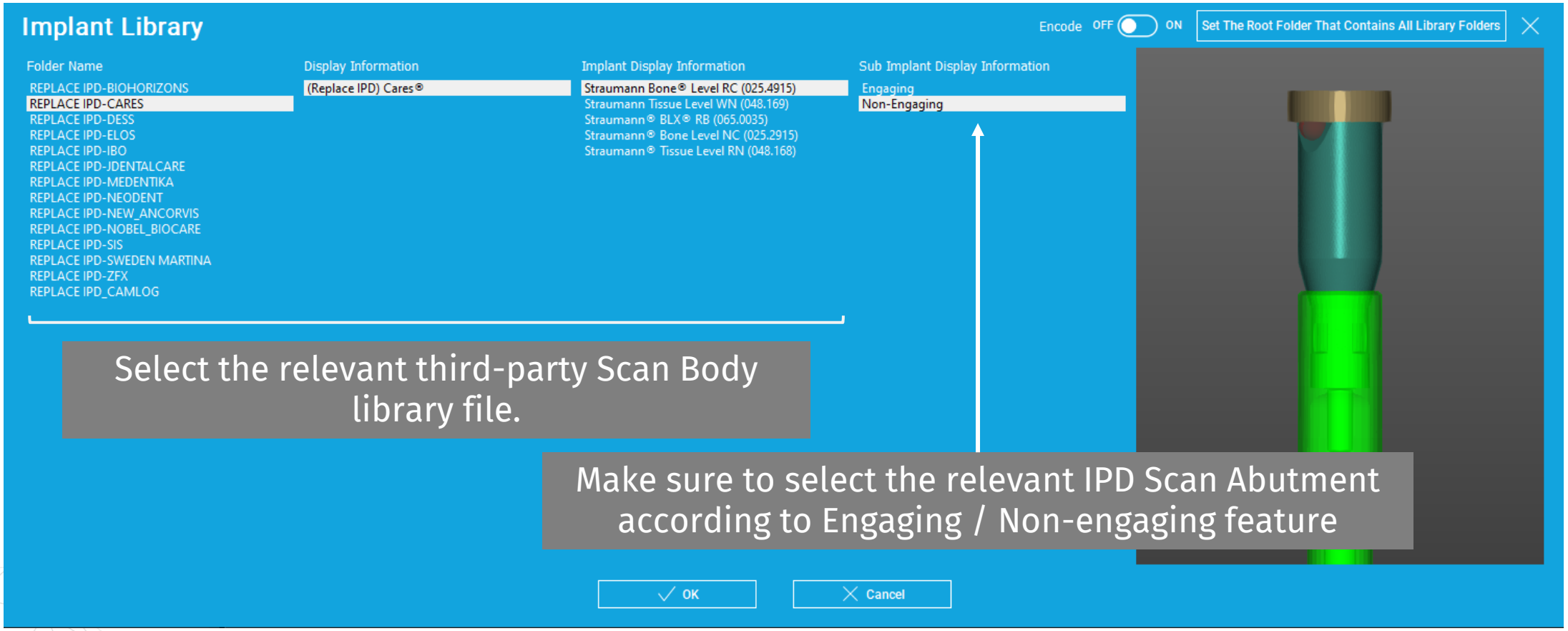


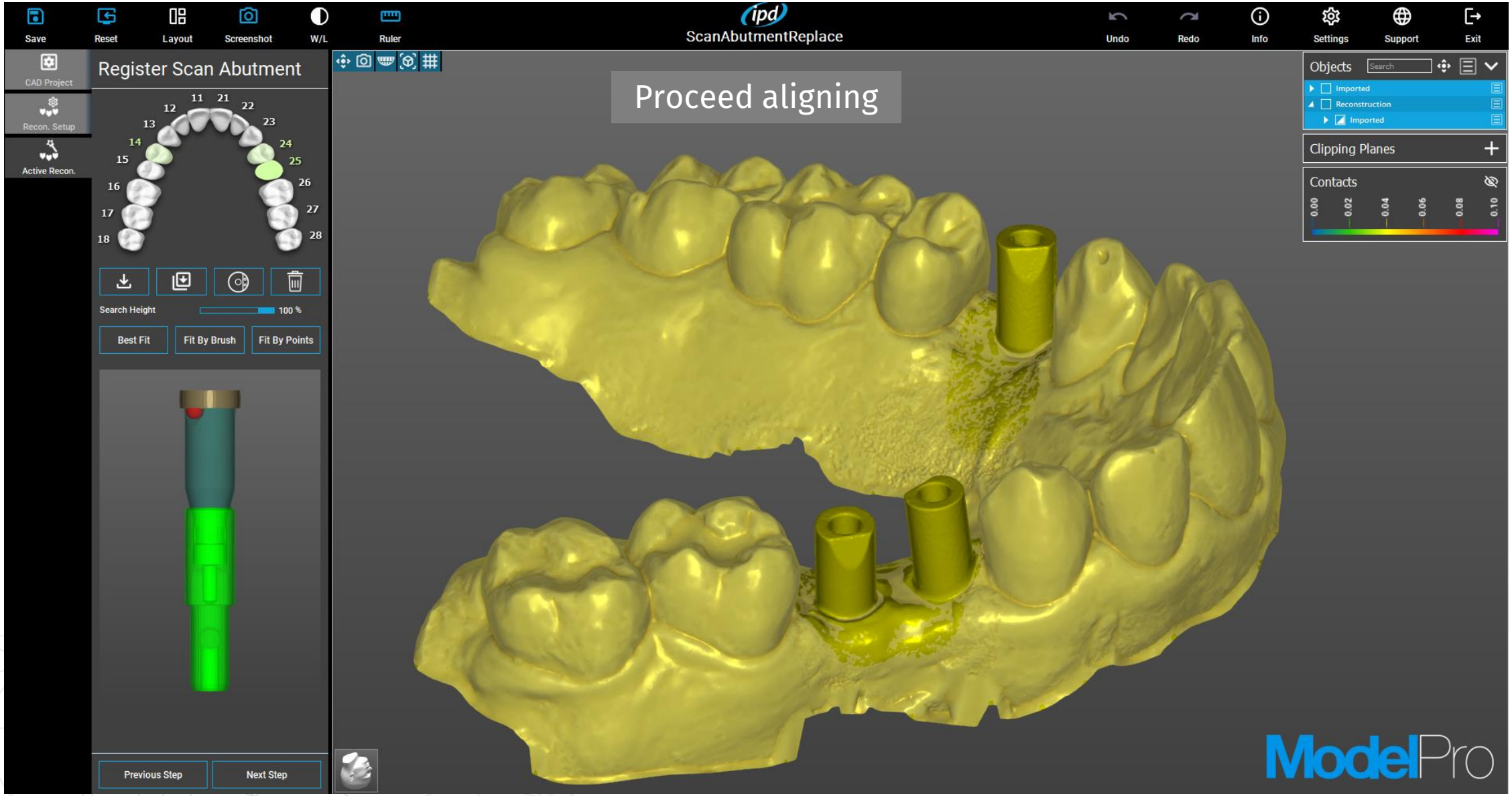
Click to address the library selection

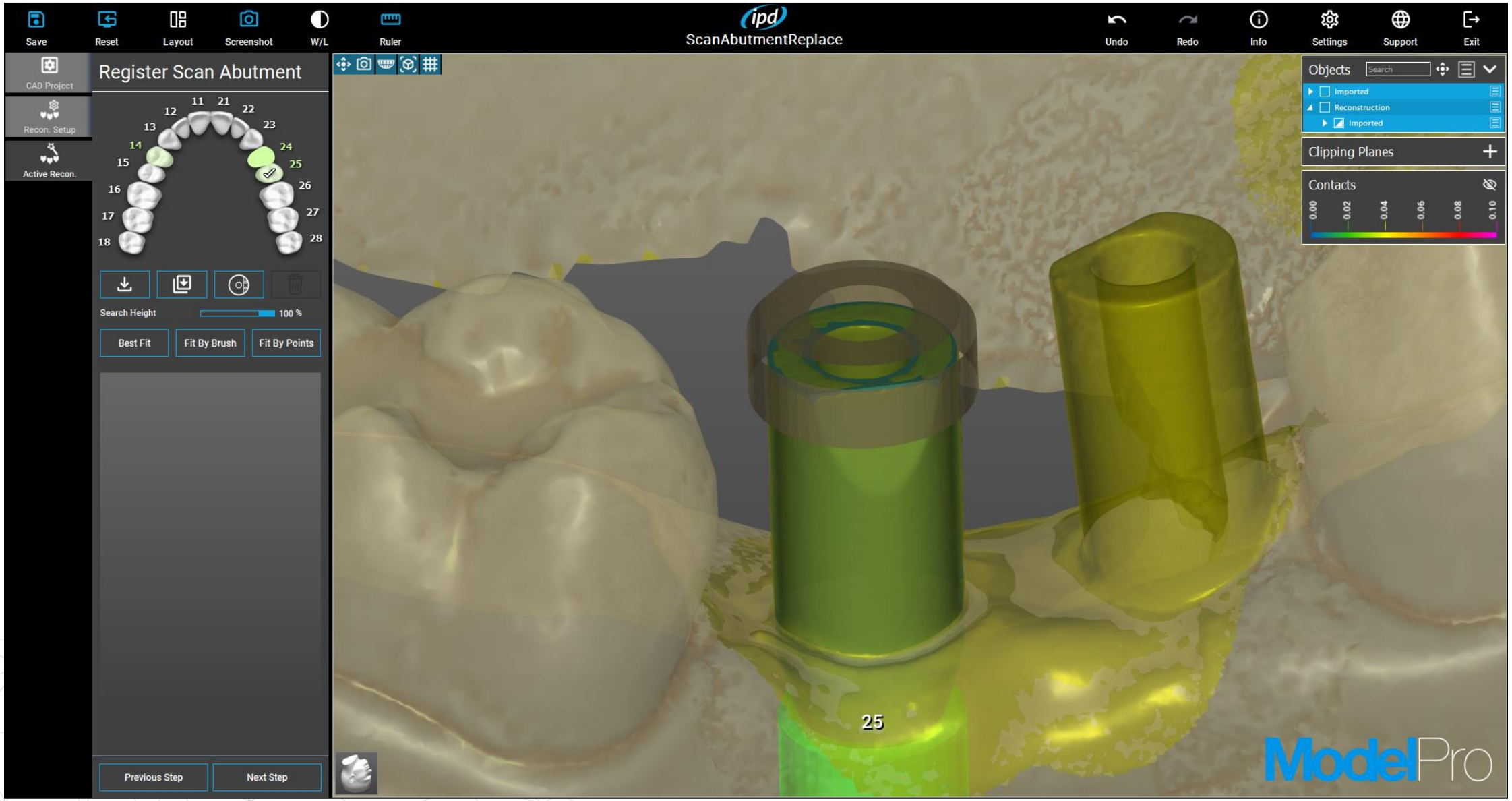

Implant Library
Encode
OFF
ON
Set The Root Folder That Contains All Library Folders
Folder Name
Display Information
Implant Display Information
Sub Implant Display Information
Locate the folder path where storing the IPD ModelPro CONNECTIONS library files
OK
Cancel

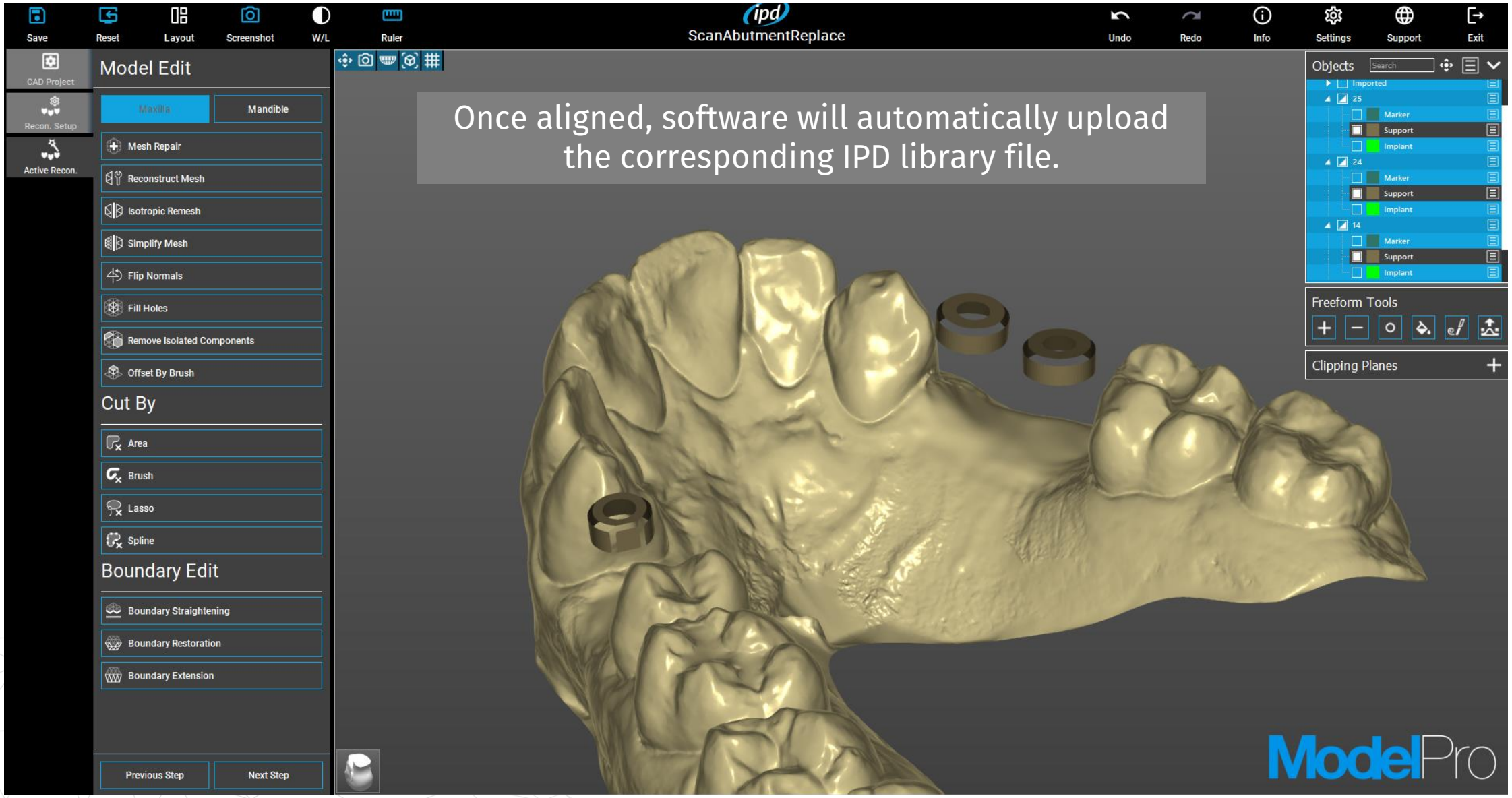


Select “Scan Abutment Replace” folder inside your ModelPro CONNECTIONS file


Implant Library
Encode
OFF
ON
Set The Root Folder That Contains All Library Folders
Folder Name
REPLACE IPD-BIOHORIZONS
REPLACE IPD-CARES
REPLACE IPD-DESS
REPLACE IPD-ELOS
REPLACE IPD-IBO
REPLACE IPD-JDENTALCARE
REPLACE IPD-MEDENTIKA
REPLACE IPD-NEODENT
REPLACE IPD-NEW_ANCORVIS
REPLACE IPD-NOBEL_BIOCARE
REPLACE IPD-SIS
REPLACE IPD-SWEDEN MARTINA
REPLACE IPD-ZFX
REPLACE IPD_CAMLOG
Display Information
(Replace IPD) Cares®
Implant Display Information
Straumann Bone® Level RC (025.4915)
Straumann Tissue Level WN (048.169)
Straumann® BLX® RB (065.0035)
Straumann® Bone Level NC (025.2915)
Straumann® Tissue Level RN (048.168)
Sub Implant Display Information
Engaging
Non-Engaging
Select the relevant third-party Scan Body library file.
Make sure to select the relevant IPD Scan Abutment according to Engaging / Non-engaging feature
OK
Cancel


Save
Reset
Layout
Screenshot
W/L
Ruler
ScanAbutmentReplace
Undo
Redo
Info
Settings
Support
Exit
CAD Project
Recon. Setup
Active Recon.
Register Scan Abutment
11 21 12 22 13 23 14 24 15 25 16 26 17 27 18 28
Search Height
100 %
Best Fit
Fit By Brush
Fit By Points
Previous Step
Next Step
Proceed aligning
Objects
Search
Imported
Reconstruction
Imported
Clipping Planes
Contacts
0.00 0.02 0.04 0.06 0.08 0.10
ModelPro


Save
Reset
Layout
Screenshot
W/L
Ruler
ScanAbutmentReplace
Undo
Redo
Info
Settings
Support
Exit
CAD Project
Recon. Setup
Active Recon.
Register Scan Abutment
11 21 12 22 13 23 14 24 15 25 16 26 17 27 18 28
Search Height
100 %
Best Fit
Fit By Brush
Fit By Points
Previous Step
Next Step
Objects
Search
Imported
Reconstruction
Imported
Clipping Planes
Contacts
0.00 0.02 0.04 0.06 0.08 0.10
25
ModelPro


Save
Reset
Layout
Screenshot
W/L
Ruler
ScanAbutmentReplace
Undo
Redo
Info
Settings
Support
Exit
CAD Project
Recon. Setup
Active Recon.
Model Edit
Maxilla
Mandible
Mesh Repair
Reconstruct Mesh
Isotropic Remesh
Simplify Mesh
Flip Normals
Fill Holes
Remove Isolated Components
Offset By Brush
Cut By
Area
Brush
Lasso
Spline
Boundary Edit
Boundary Straightening
Boundary Restoration
Boundary Extension
Previous Step
Next Step
Once aligned, software will automatically upload the corresponding IPD library file.
Objects
Search
Imported
25
Marker
Support
Implant
24
Marker
Support
Implant
14
Marker
Support
Implant
Freeform Tools
Clipping Planes
ModelPro

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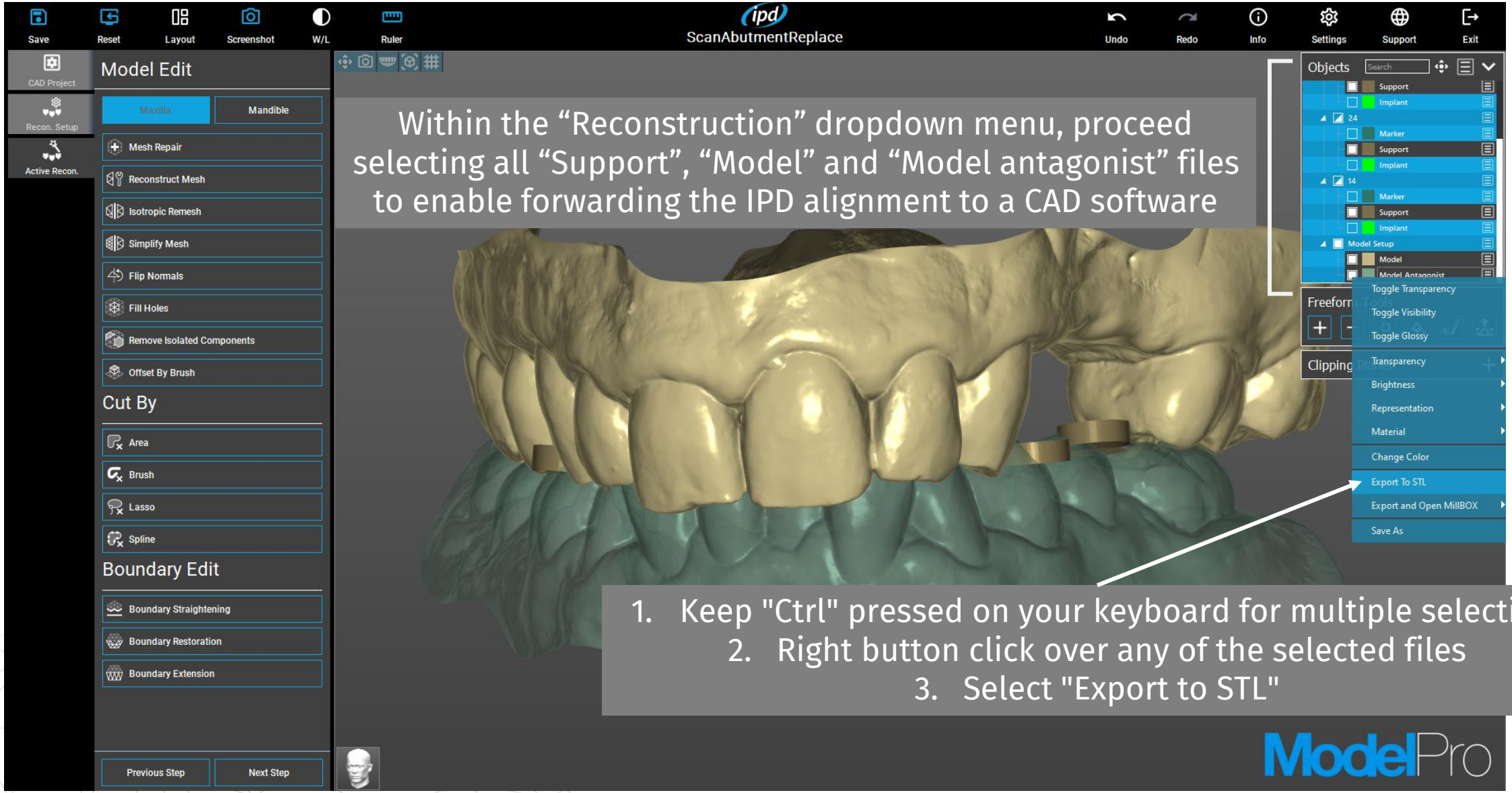
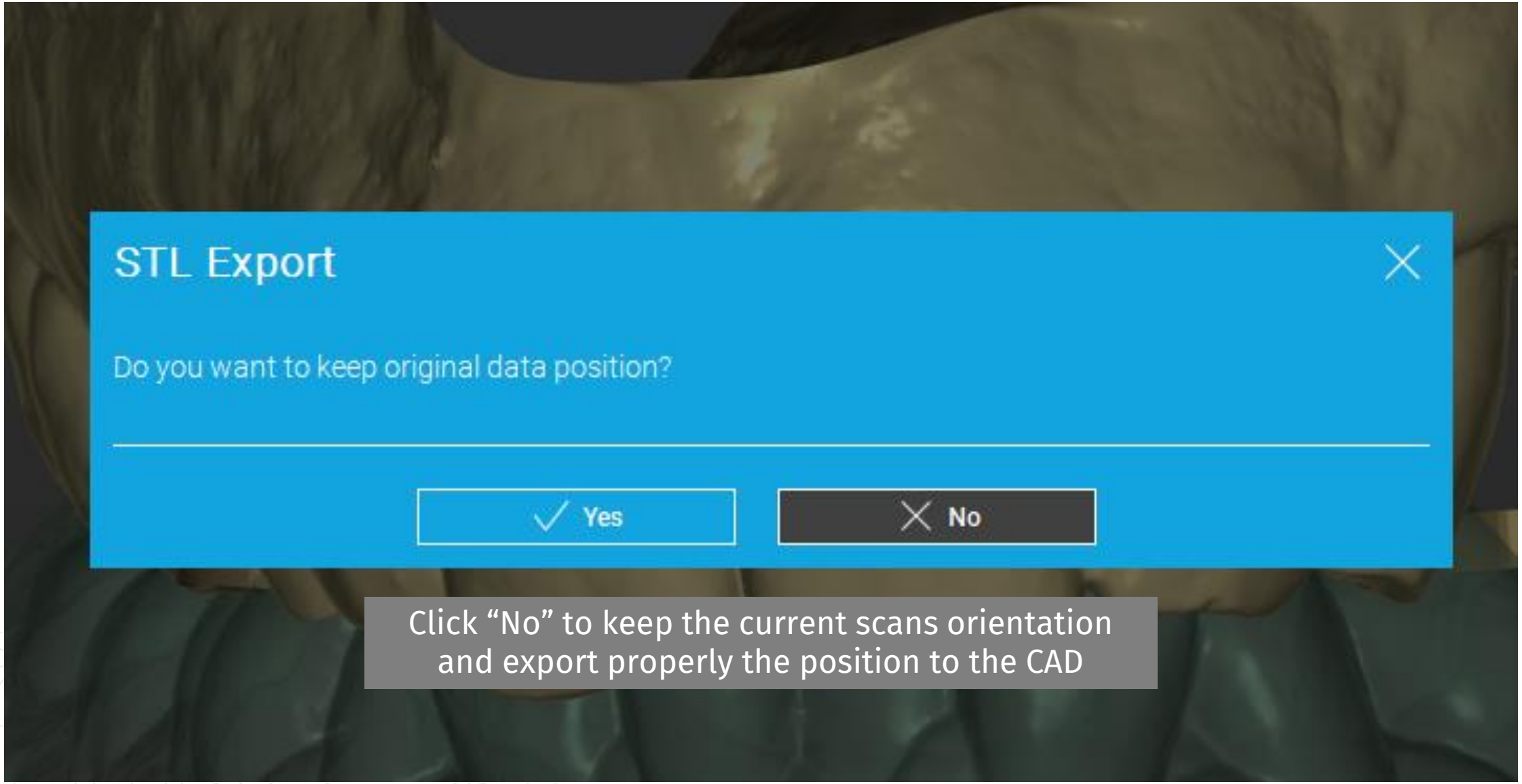
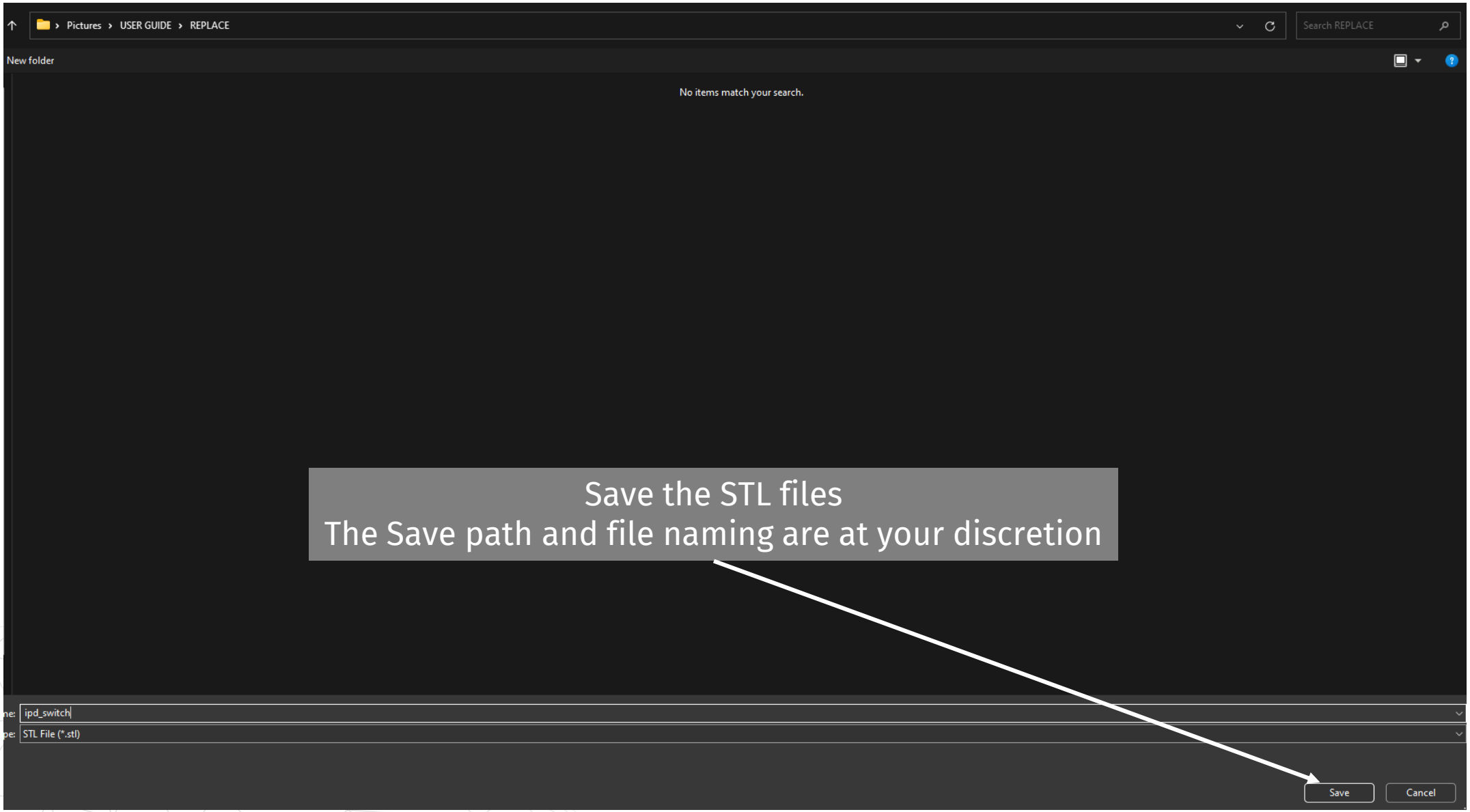


Within the “Reconstruction” dropdown menu, proceed selecting all “Support”, “Model” and “Model antagonist” files to enable forwarding the IPD alignment to a CAD software

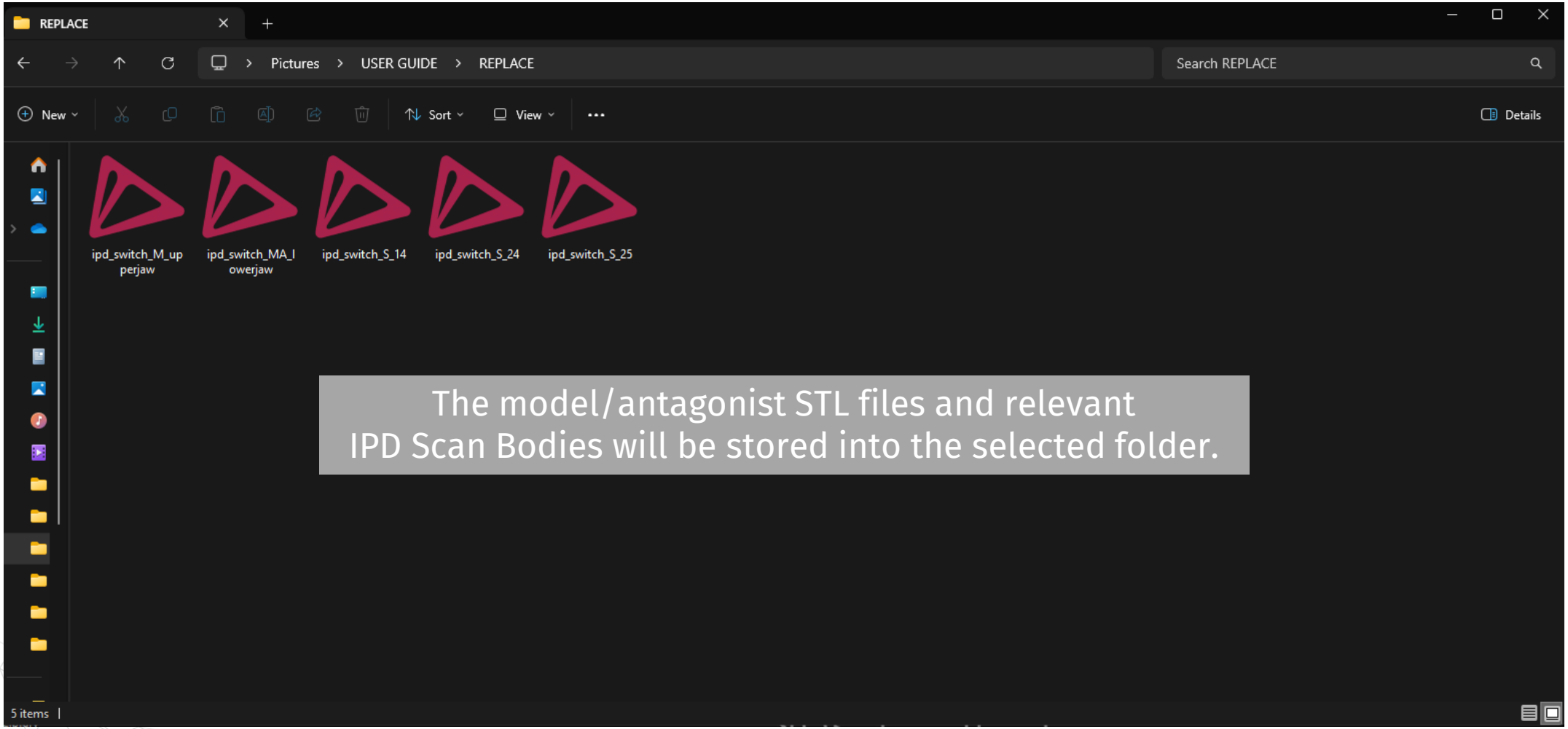
1. Keep "Ctrl" pressed on your keyboard for multiple selection.
2. Right button click over any of the selected files
3. Select "Export to STL"



Click “No” to keep the current scans orientation and export properly the position to the CAD



Save the STL files
The Save path and file naming are at your discretion



The model/antagonist STL files and relevant IPD Scan Bodies will be stored into the selected folder.

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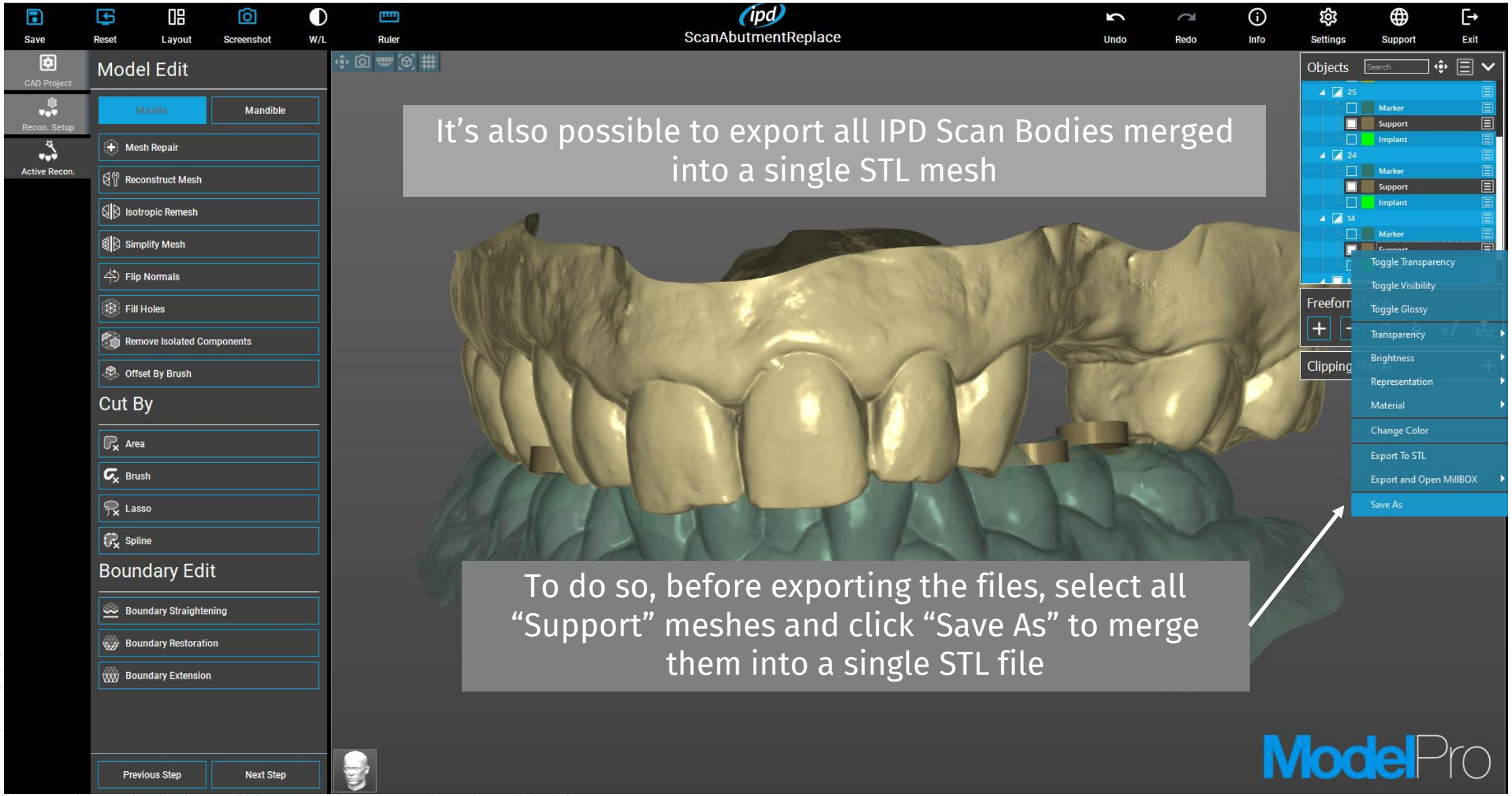
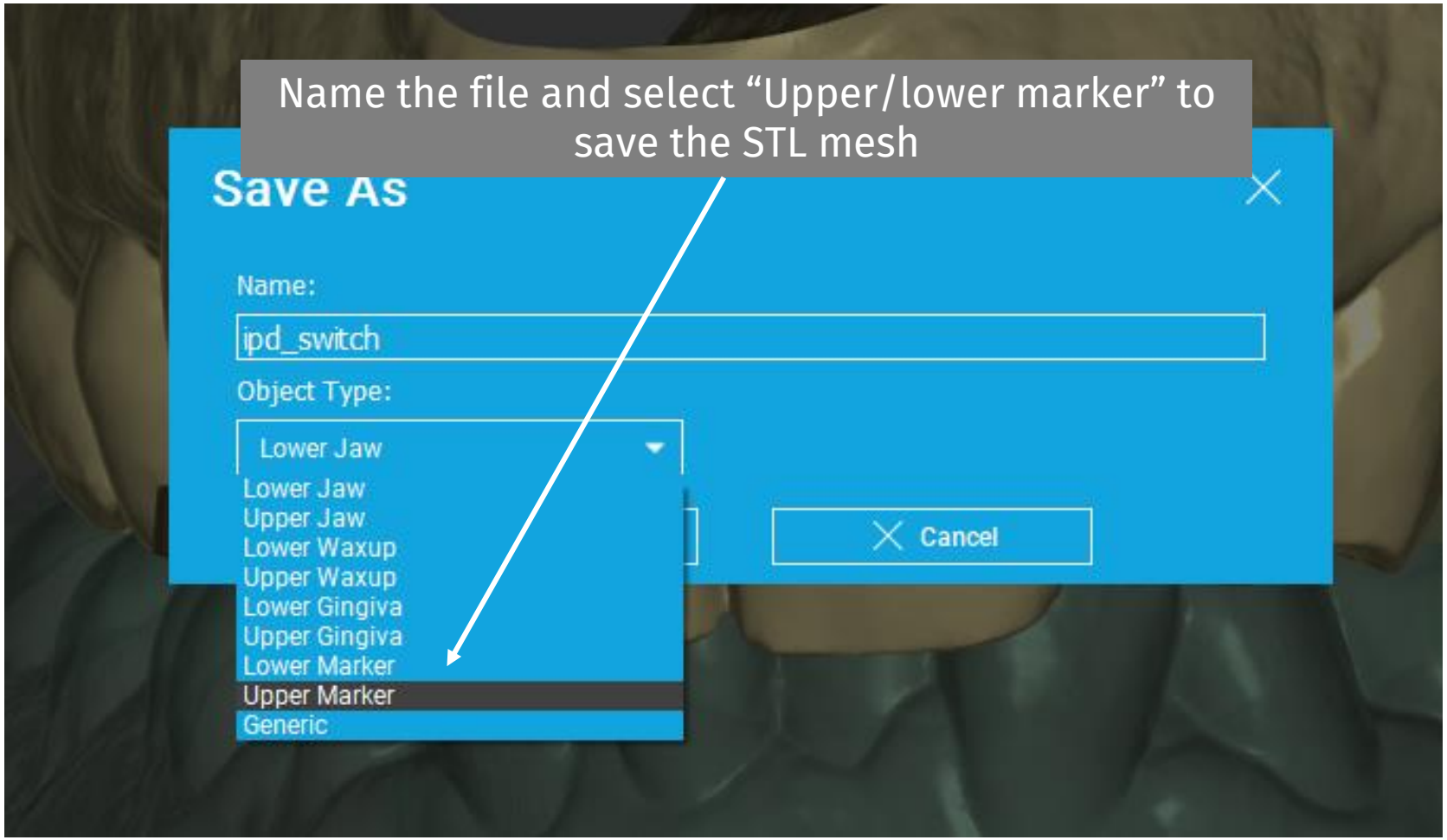


It’s also possible to export all IPD Scan Bodies merged into a single STL mesh

To do so, before exporting the files, select all “Support” meshes and click “Save As” to merge them into a single STL file

Name the file and select “Upper/lower marker” to save the STL mesh



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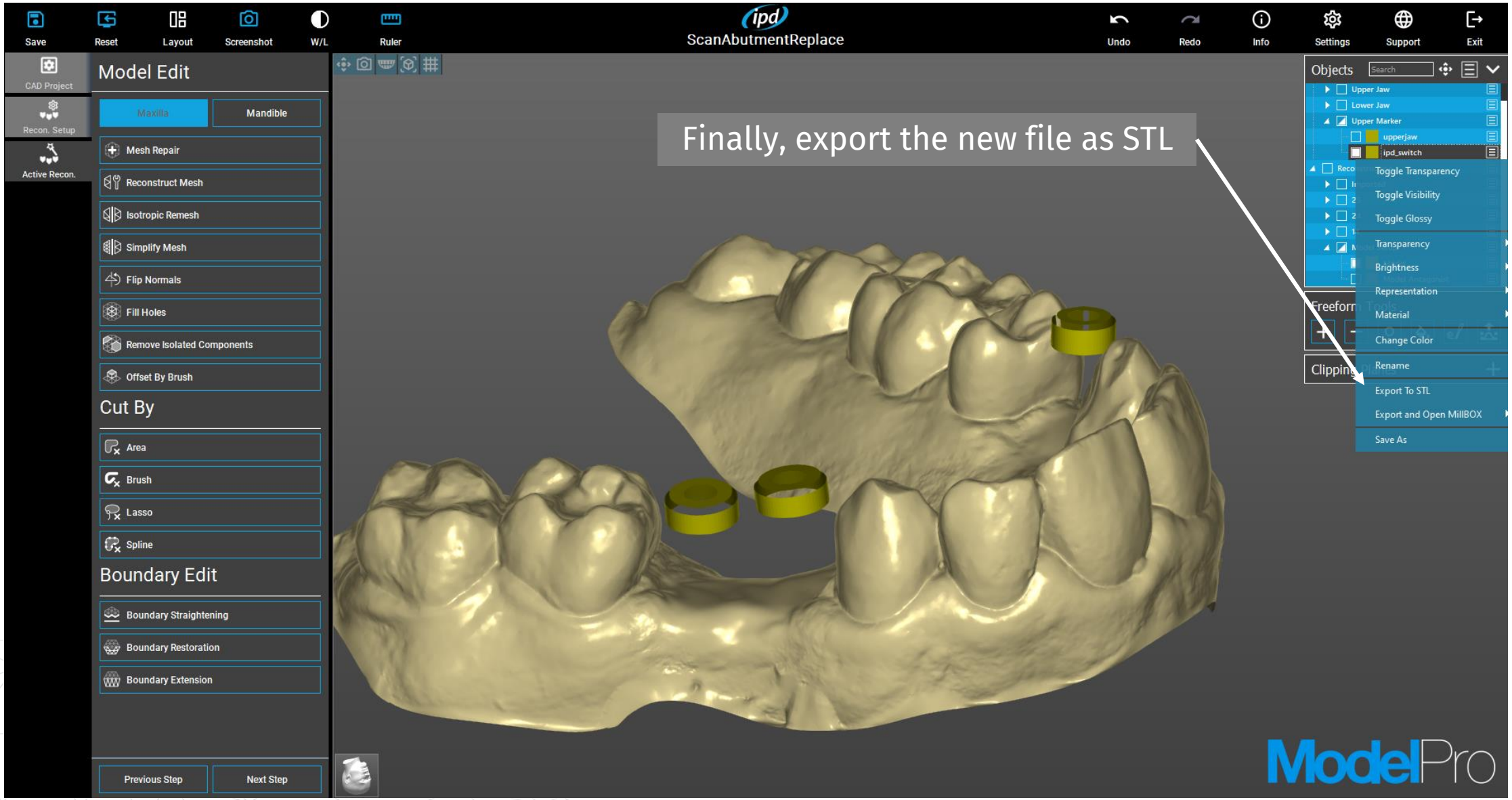
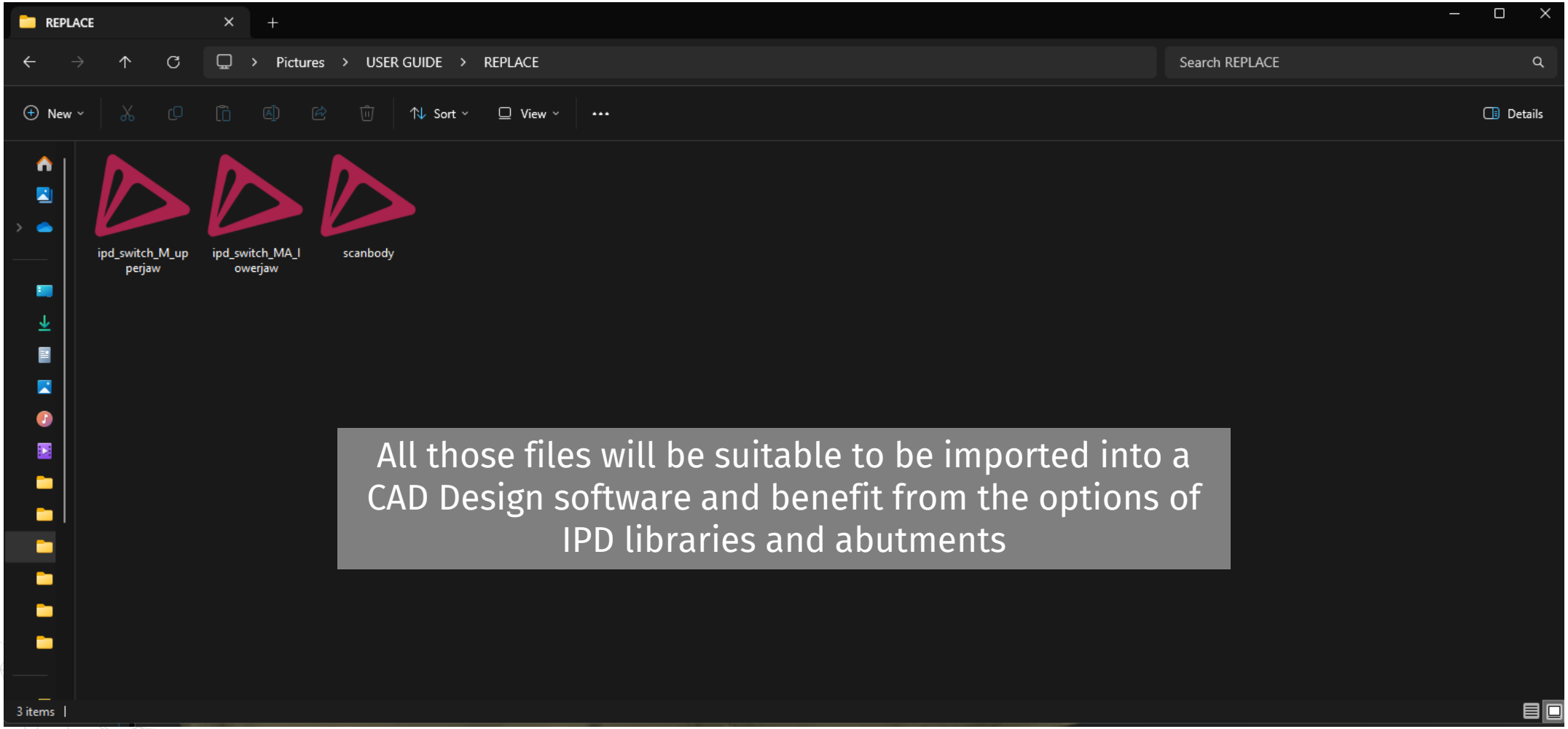
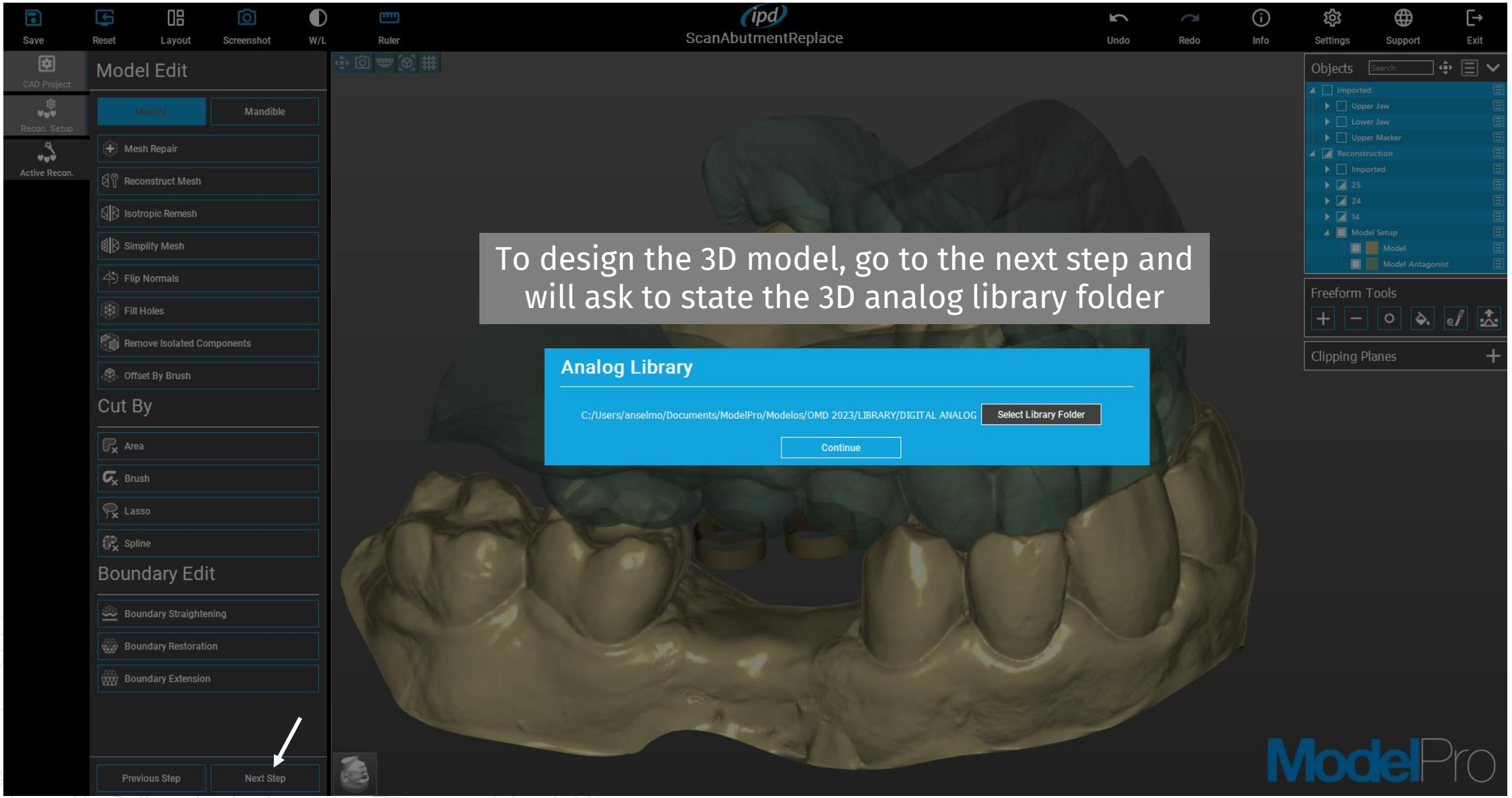
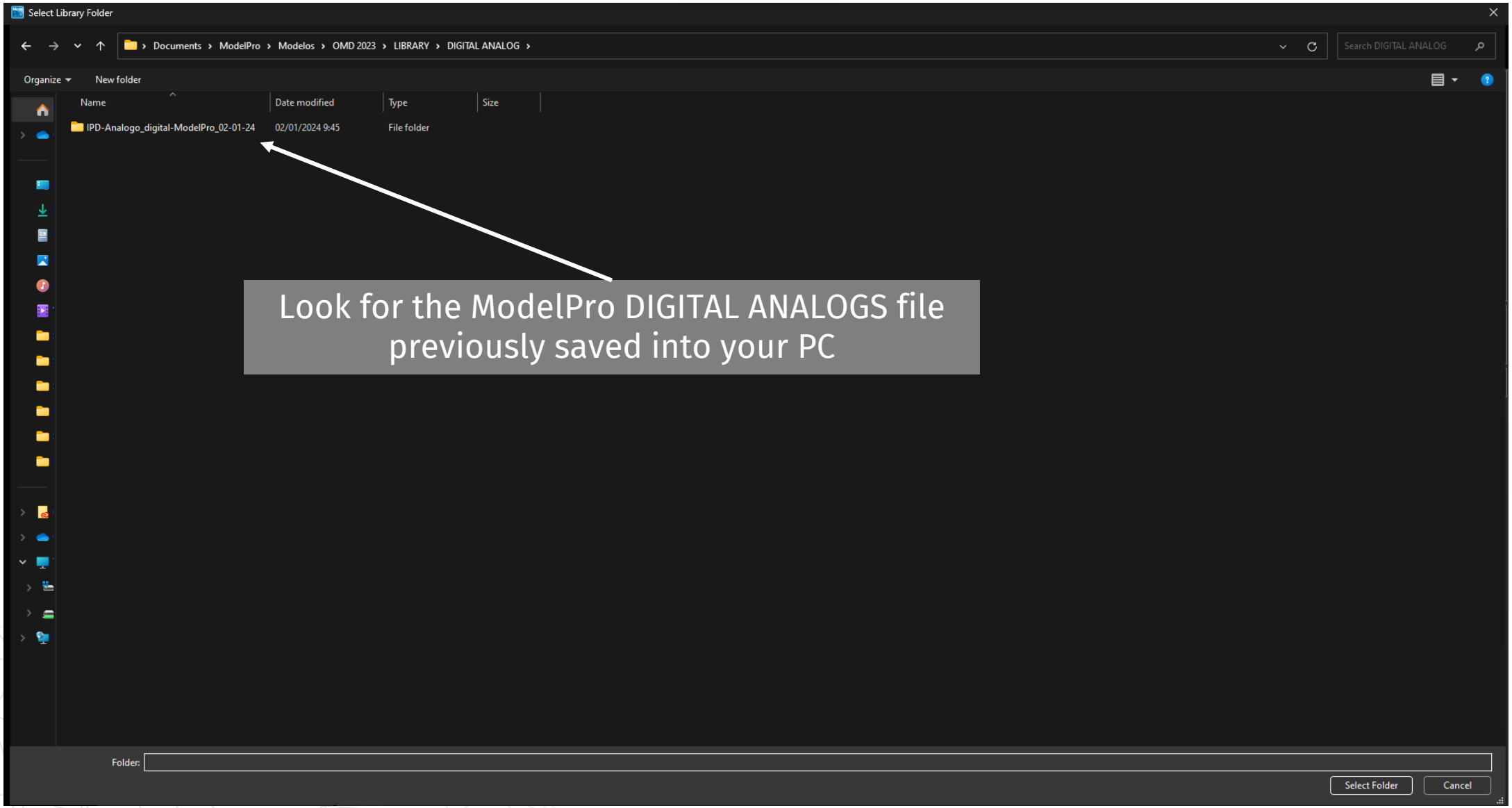




All those files will be suitable to be imported into a CAD Design software and benefit from the options of IPD libraries and abutments

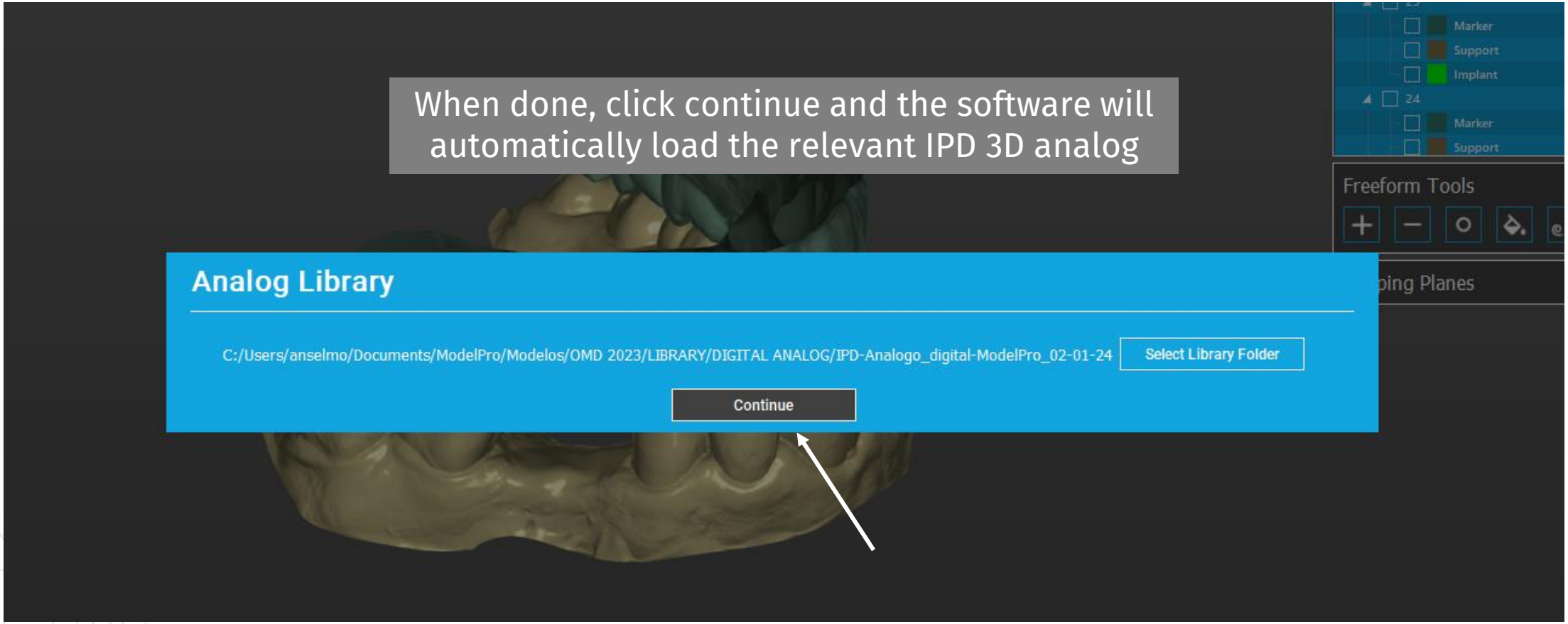


To design the 3D model, go to the next step and will ask to state the 3D analog library folder



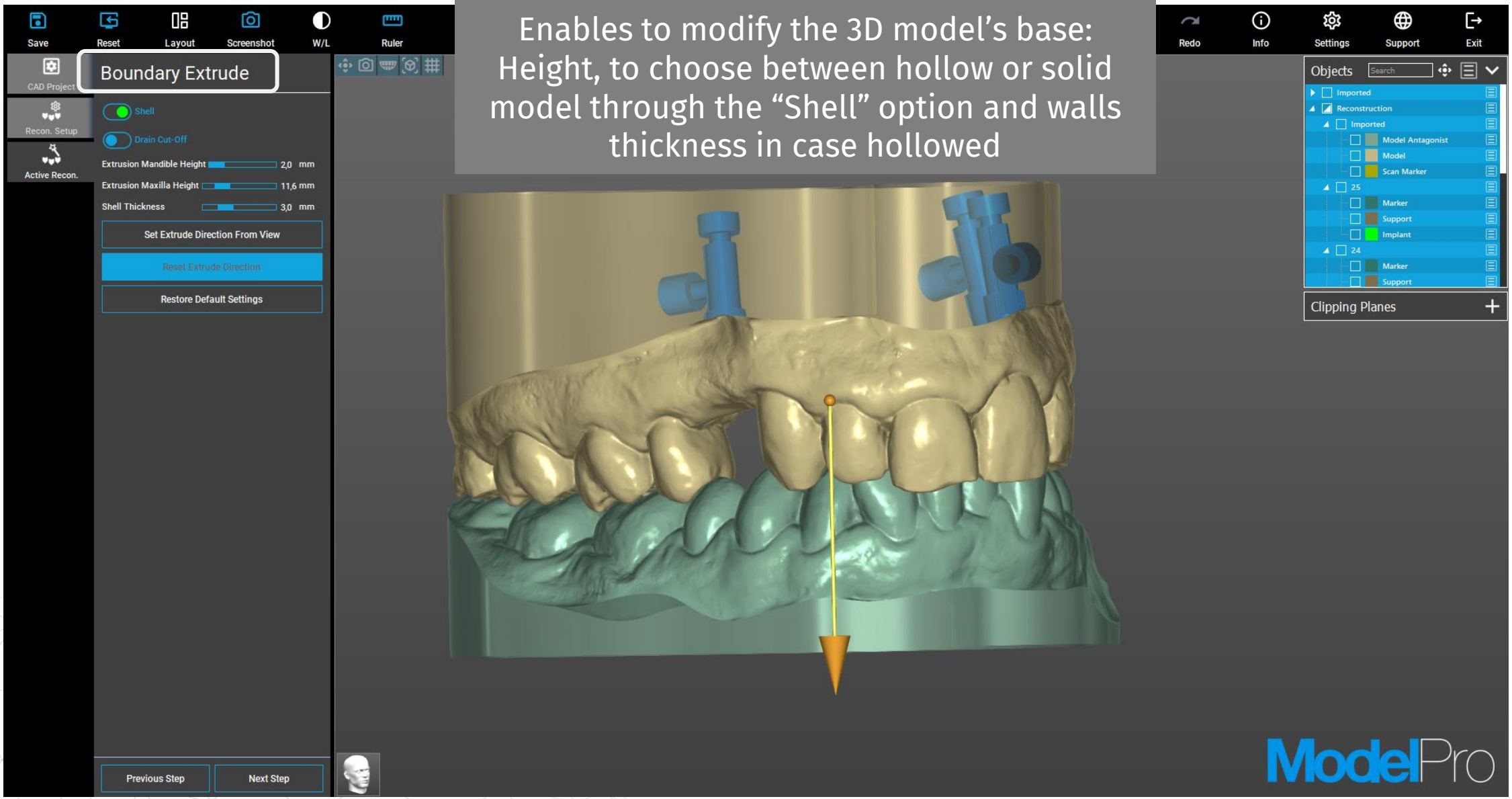
Look for the ModelPro DIGITAL ANALOGS file previously saved into your PC

When done, click continue and the software will automatically load the relevant IPD 3D analog



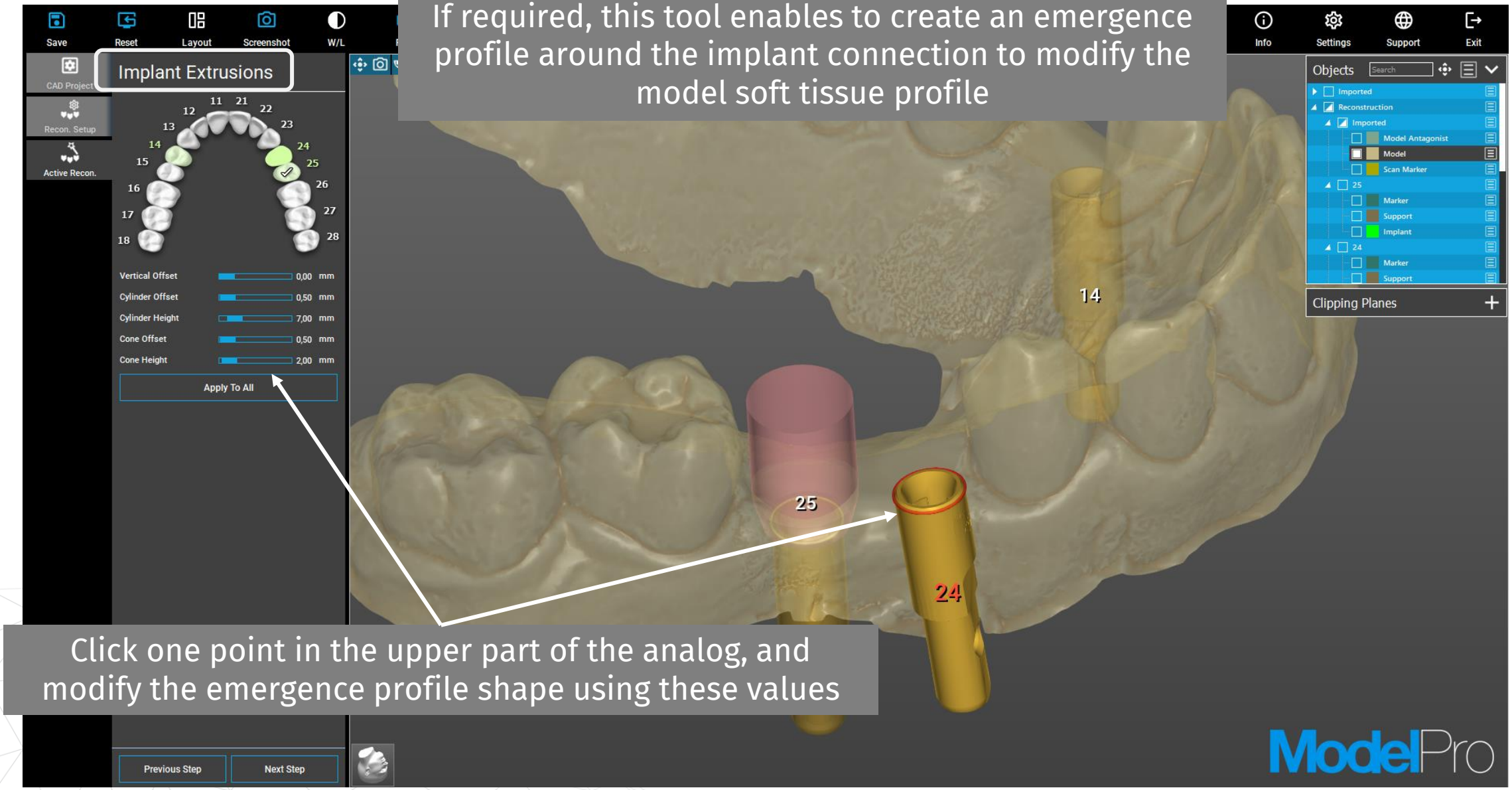
Boundary Extrude

Enables to modify the 3D model's base: Height, to choose between hollow or solid model through the "Shell" option and walls thickness in case hollowed



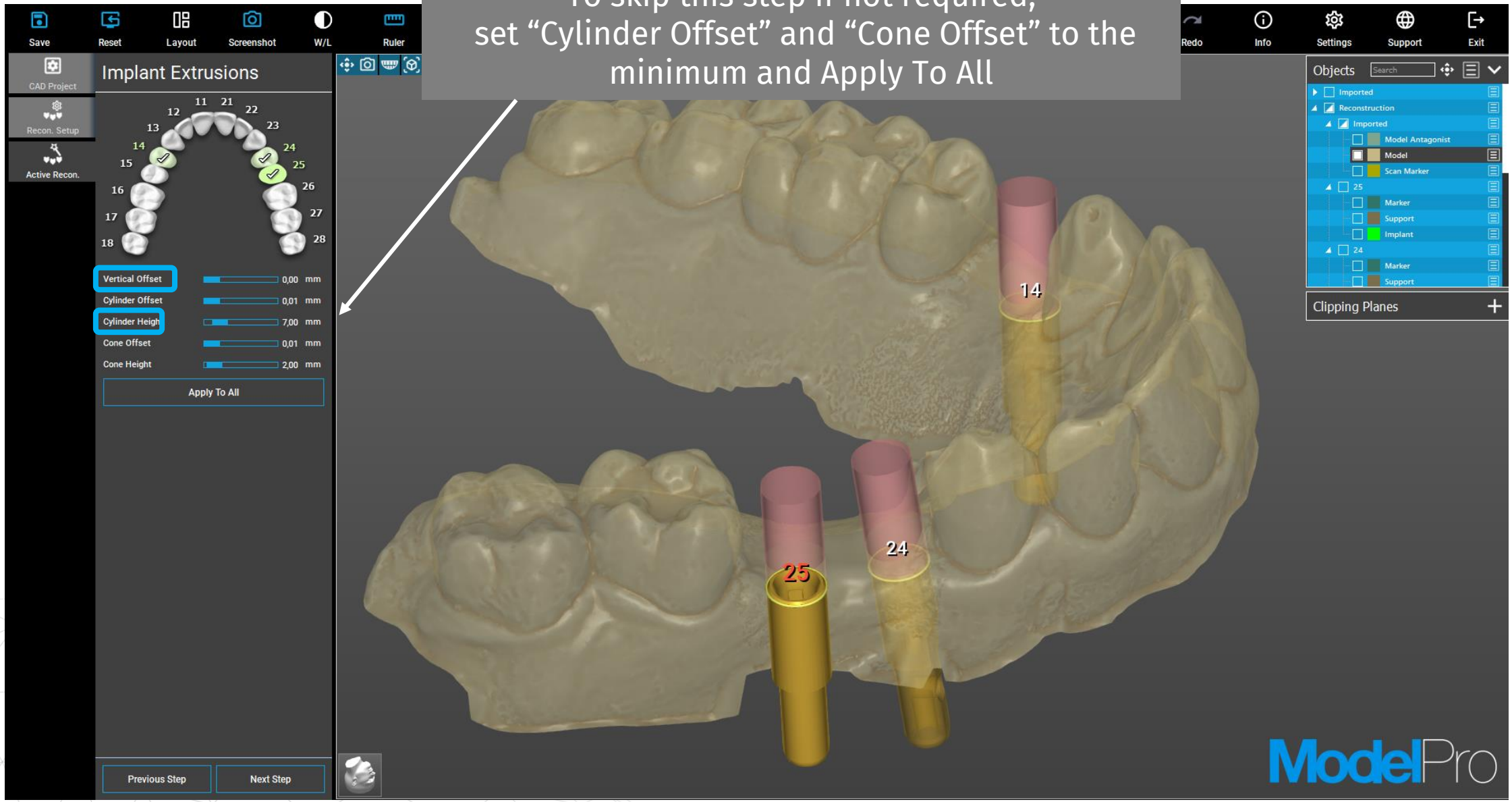
Implant Extrusions

If required, this tool enables to create an emergence profile around the implant connection to modify the model soft tissue profile



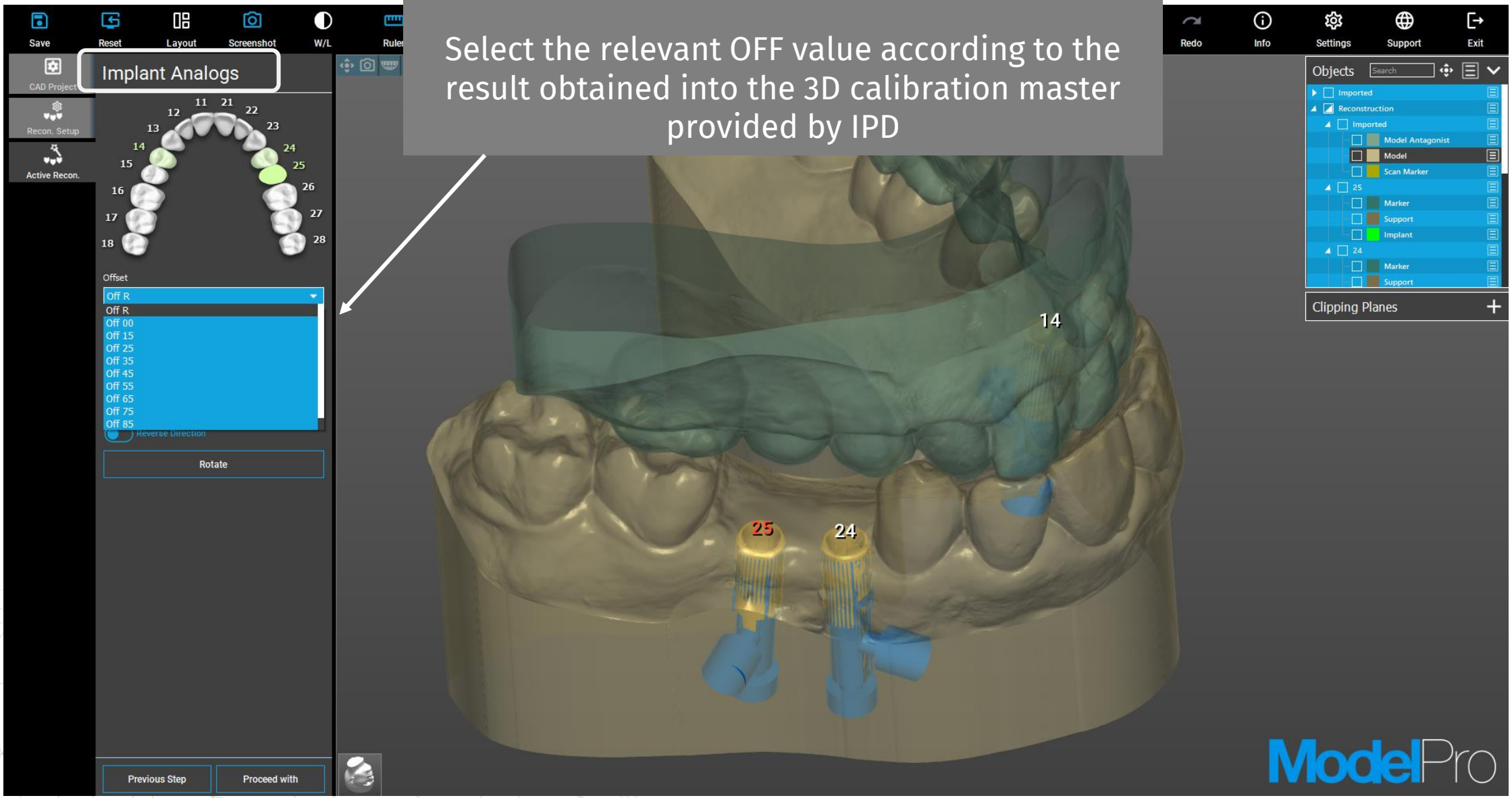
Click one point in the upper part of the analog, and modify the emergence profile shape using these values

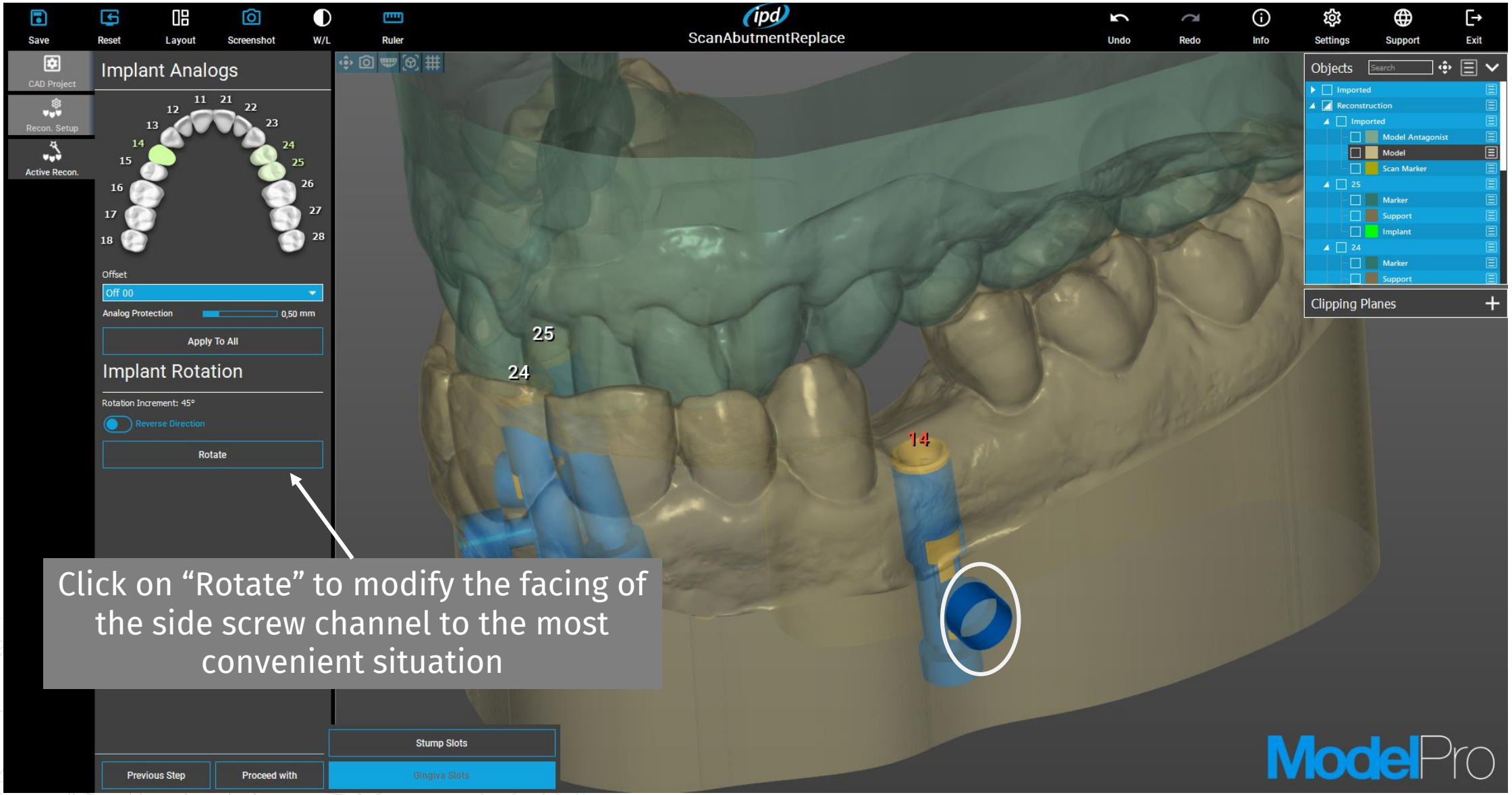
To skip this step if not required,
set “Cylinder Offset” and “Cone Offset” to the minimum and Apply To All



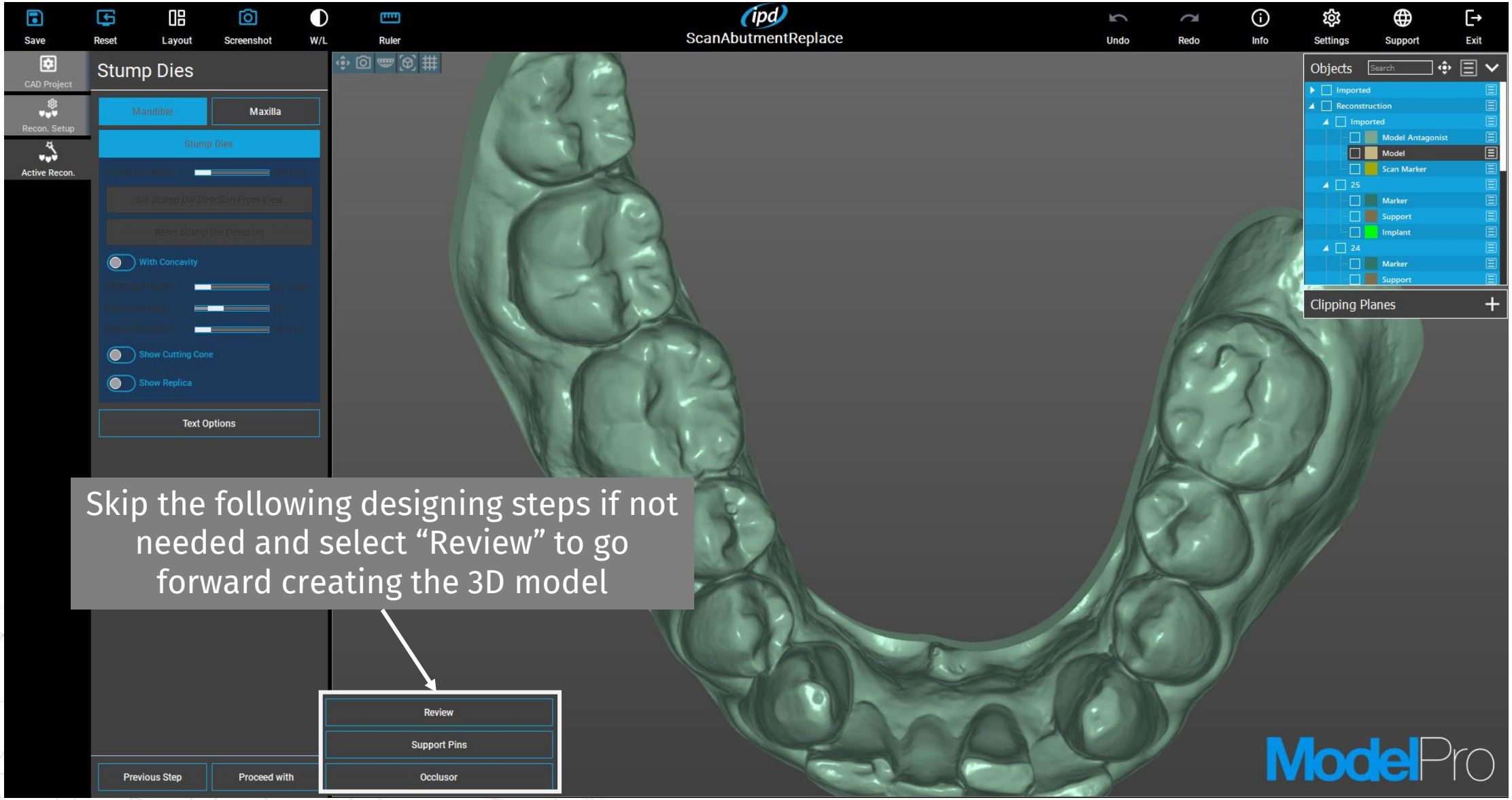
Implant Analogs

Select the relevant OFF value according to the result obtained into the 3D calibration master provided by IPD

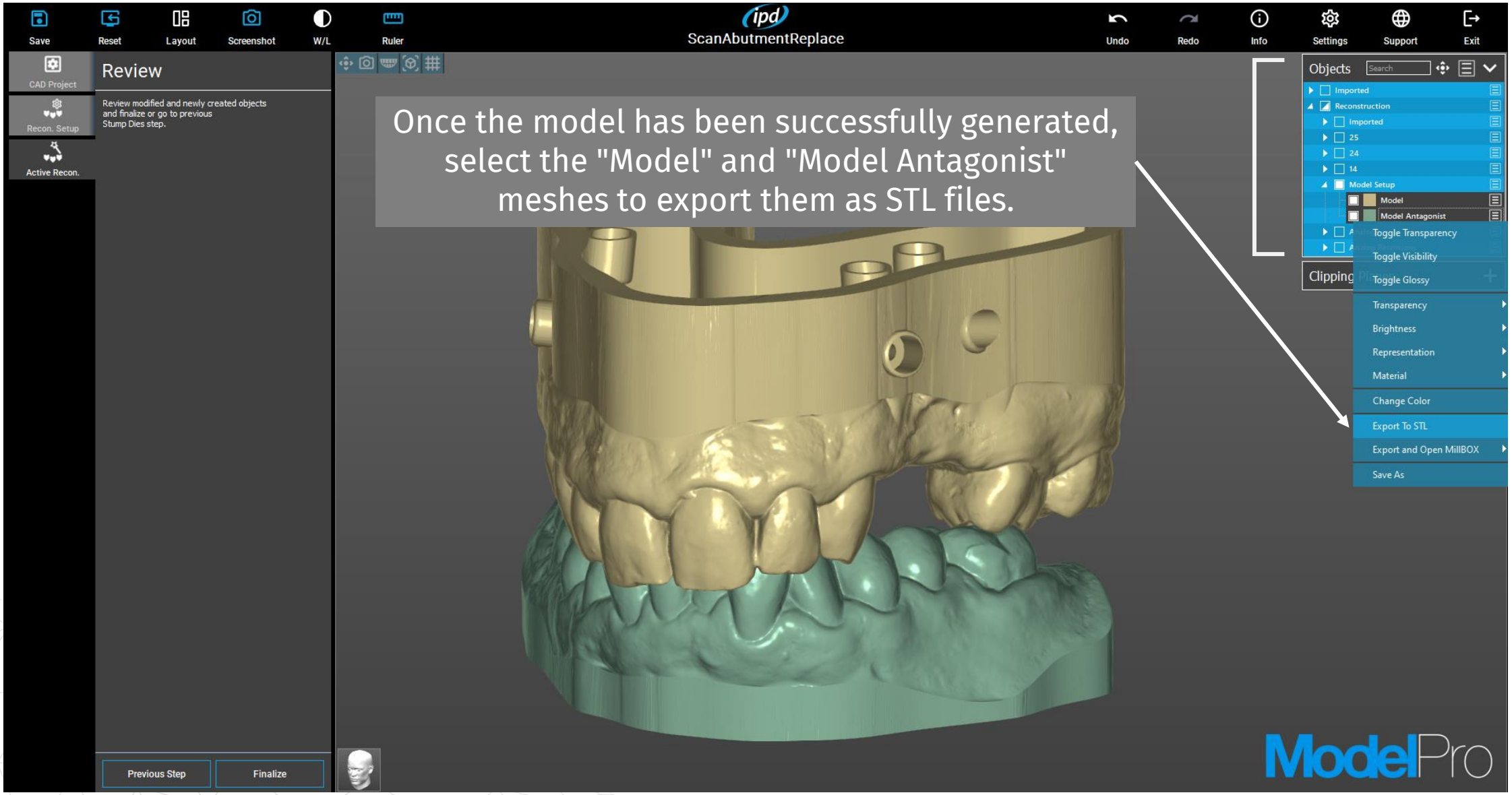




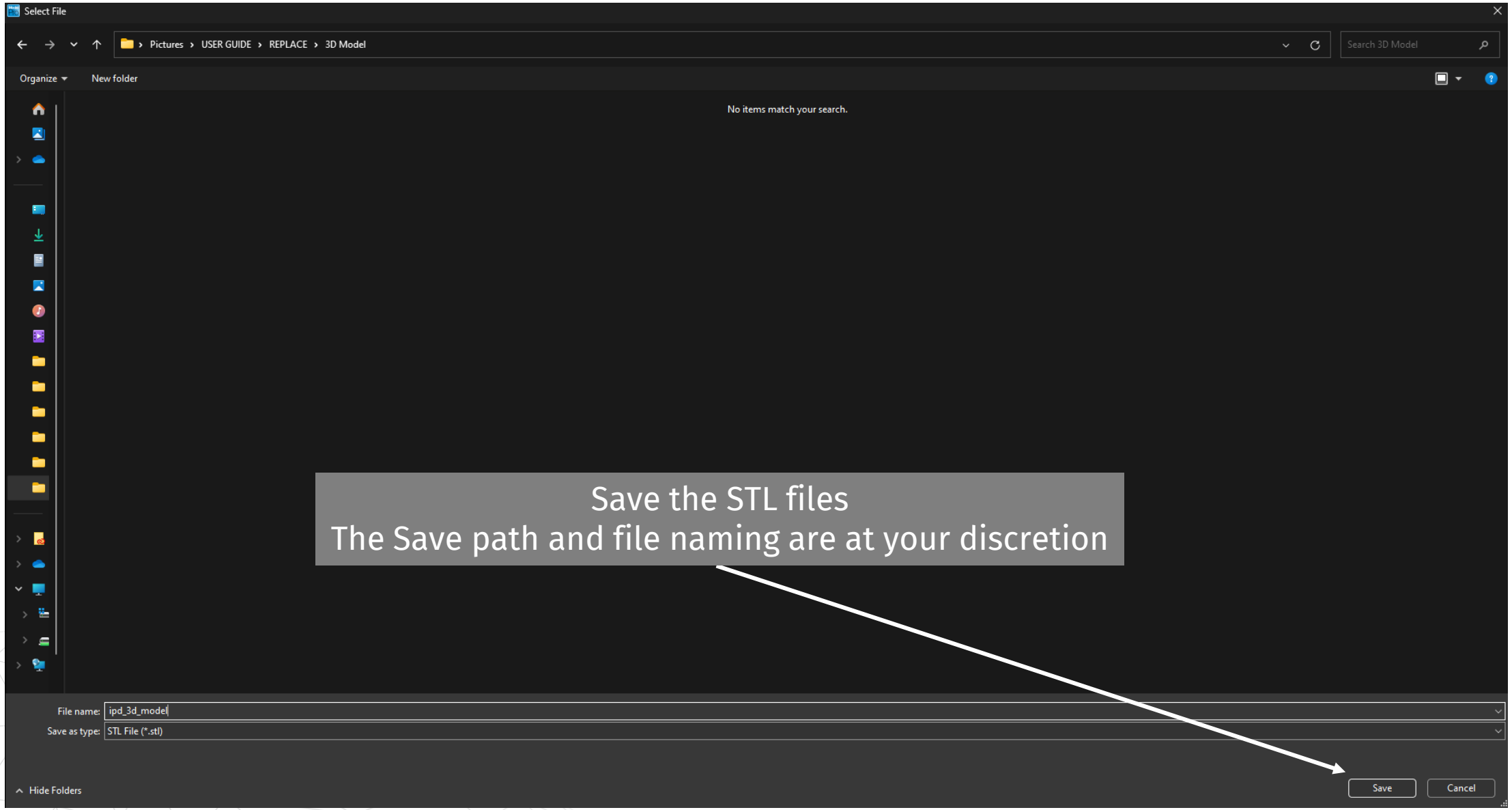
Click on “Rotate” to modify the facing of the side screw channel to the most convenient situation



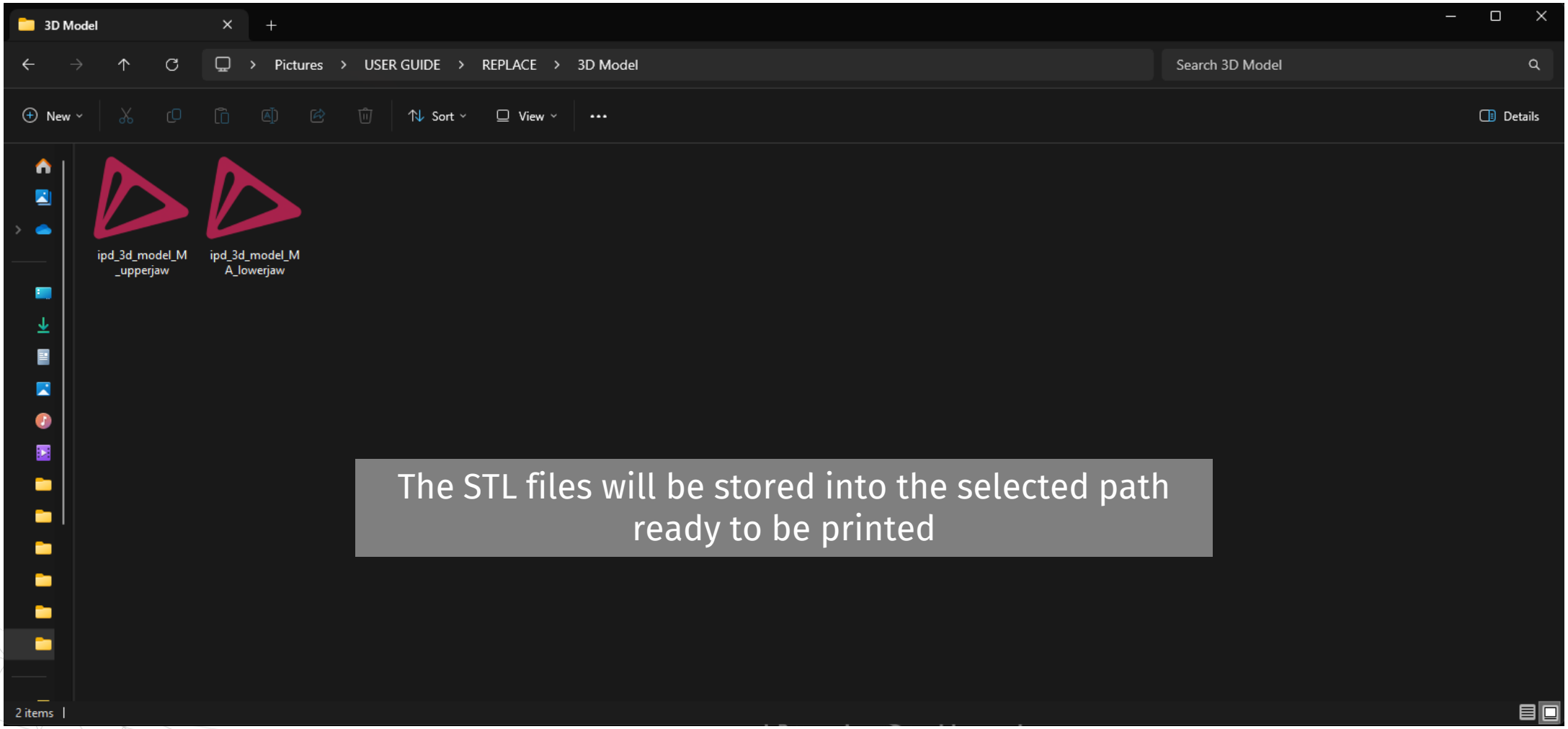
Skip the following designing steps if not needed and select “Review” to go forward creating the 3D model



Once the model has been successfully generated, select the "Model" and "Model Antagonist" meshes to export them as STL files.



Save the STL files
The Save path and file naming are at your discretion



The STL files will be stored into the selected path ready to be printed

ipd

Dental Group