ipd
Dental Group

ModelPro

Powered By IPD Dental Group

Workflow User Guide

Dental Group

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Introducction

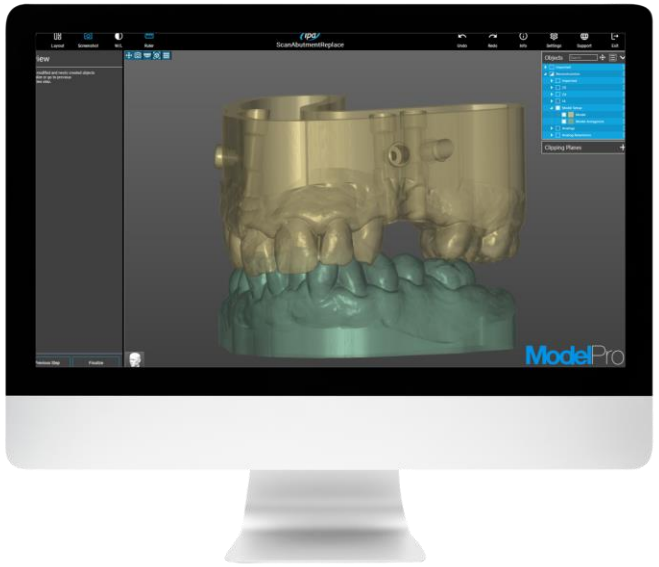
3D Model
Design

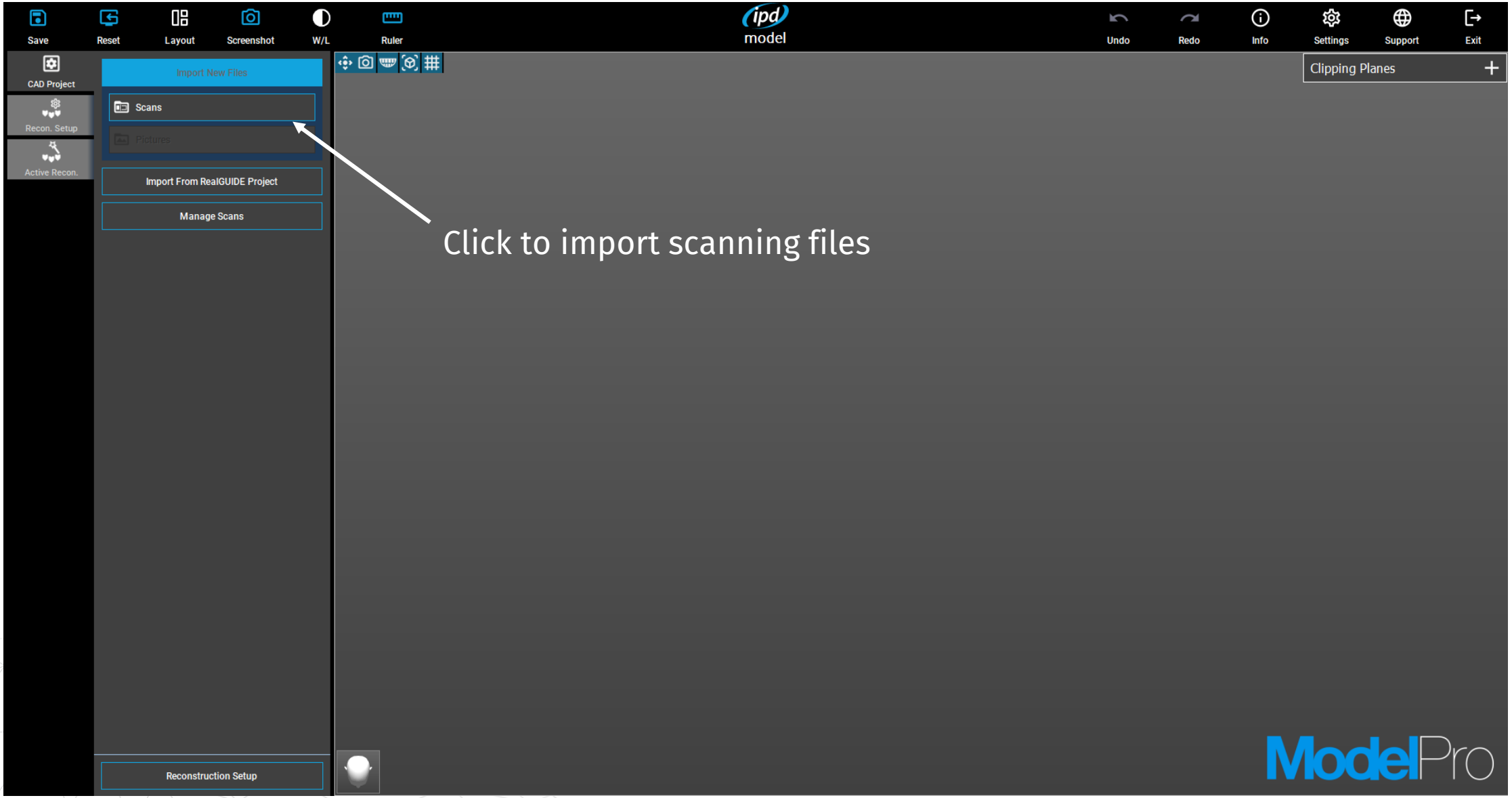
Interactive
show

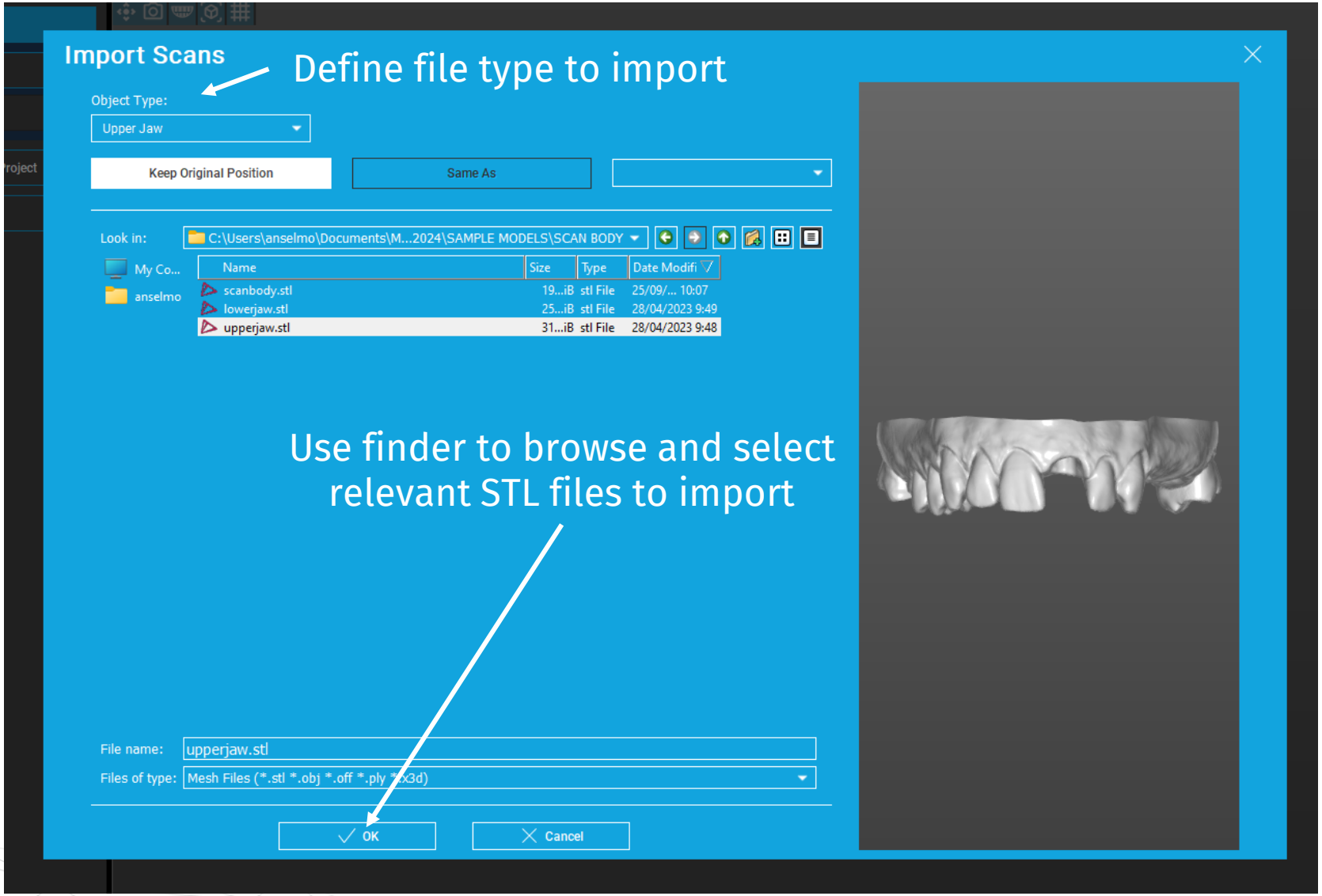
Workflow

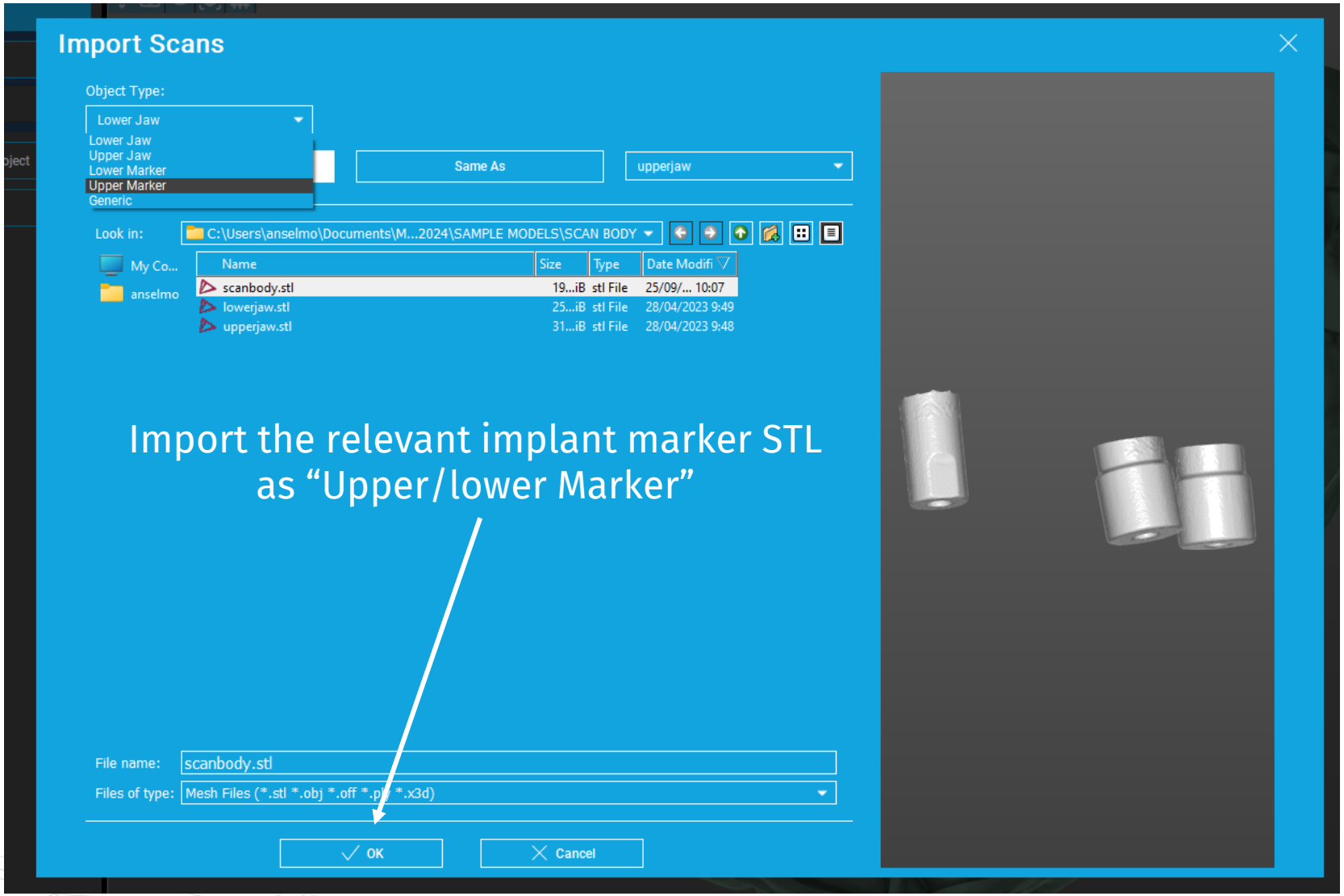
How to design a 3D model using IPD workflow

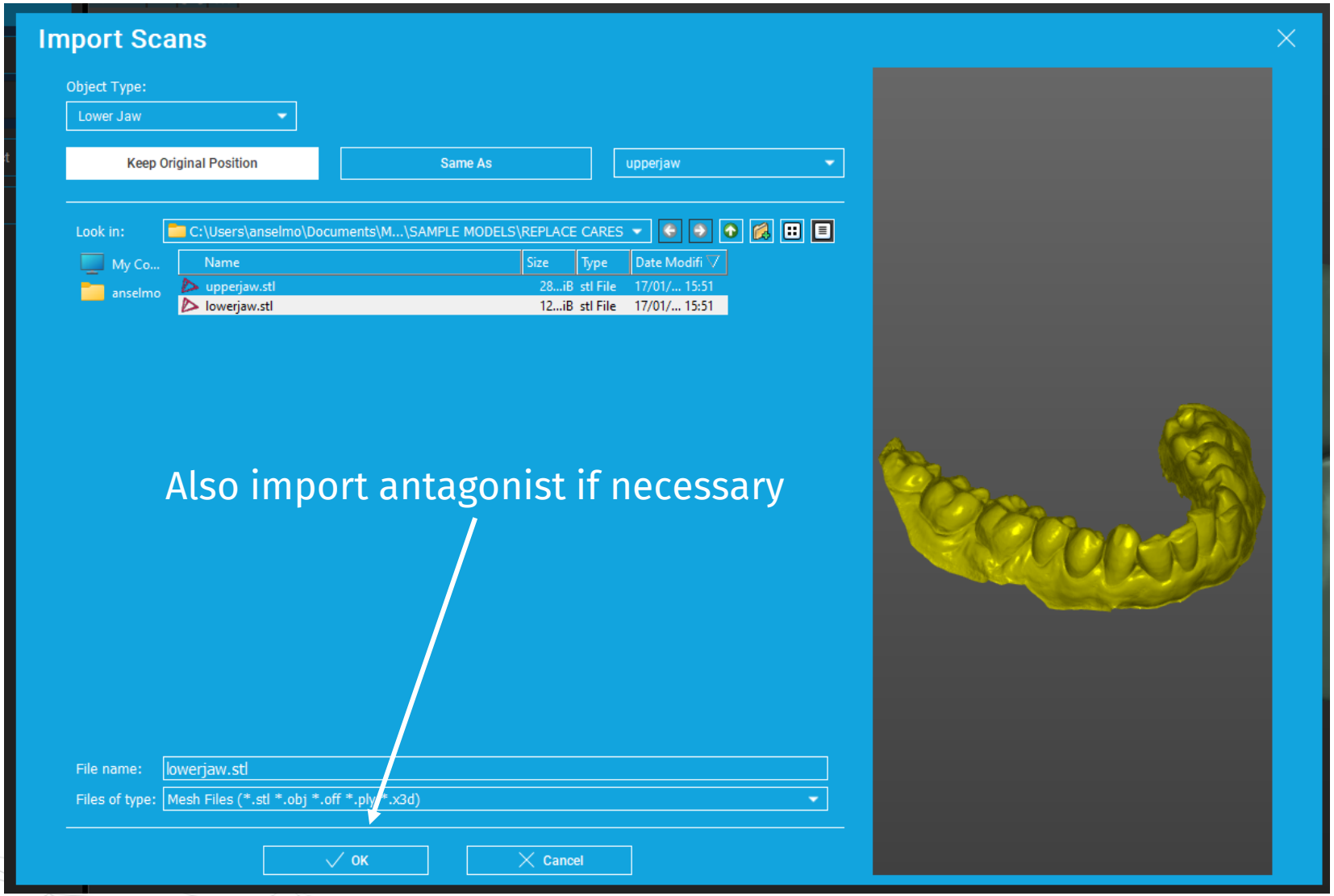
- Receive an intra-oral scan within an IPD Scan Body.
- Design the case using IPD libraries optimized for ModelPro, which simplify library selection and allow you to select the desired offset in each case.
- Create a 3D model with our exclusive 3D analog, detachable gingiva and occlusion supports.
- Export the 3D model in .STL format to your 3D printer system.

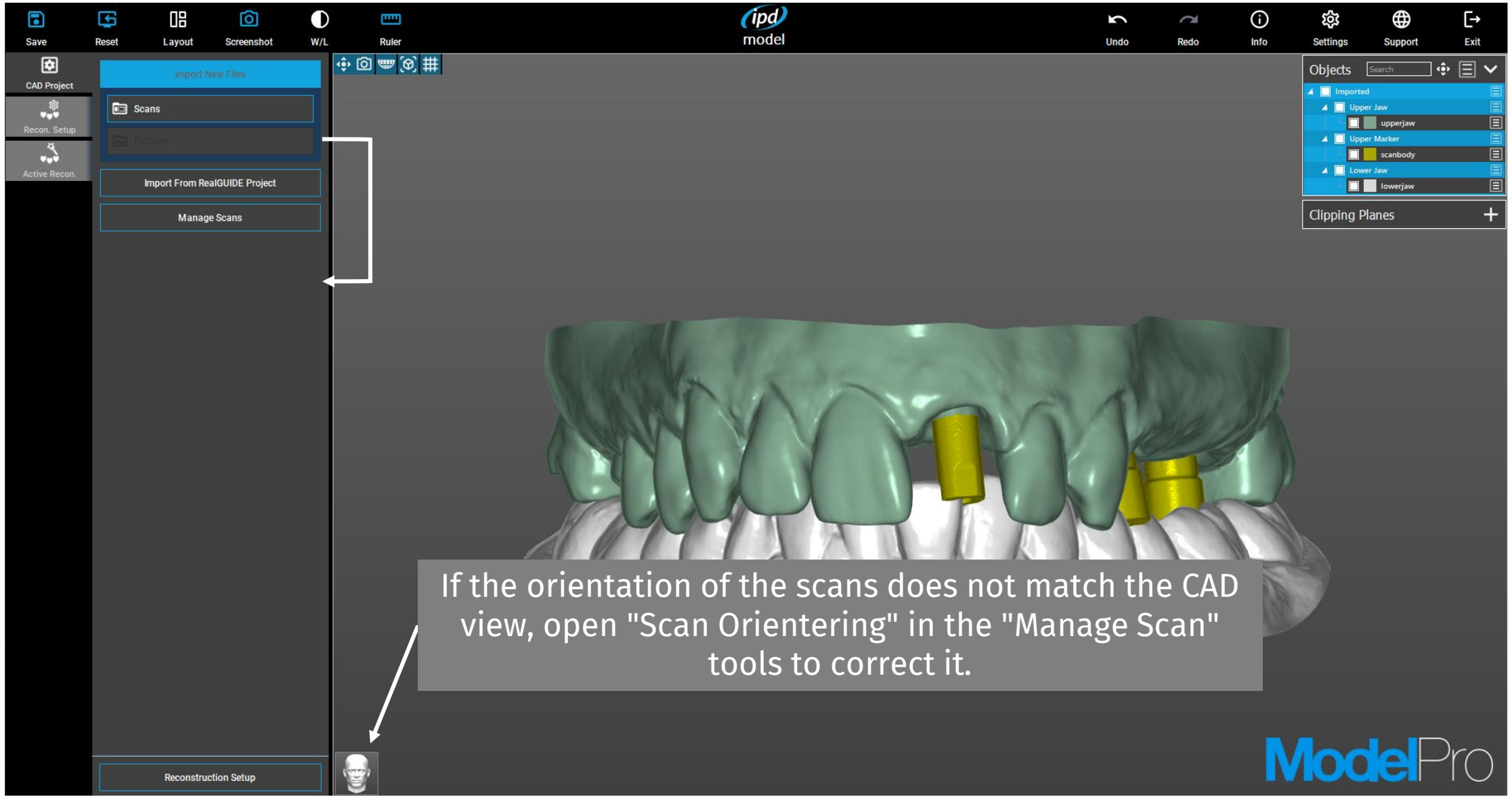


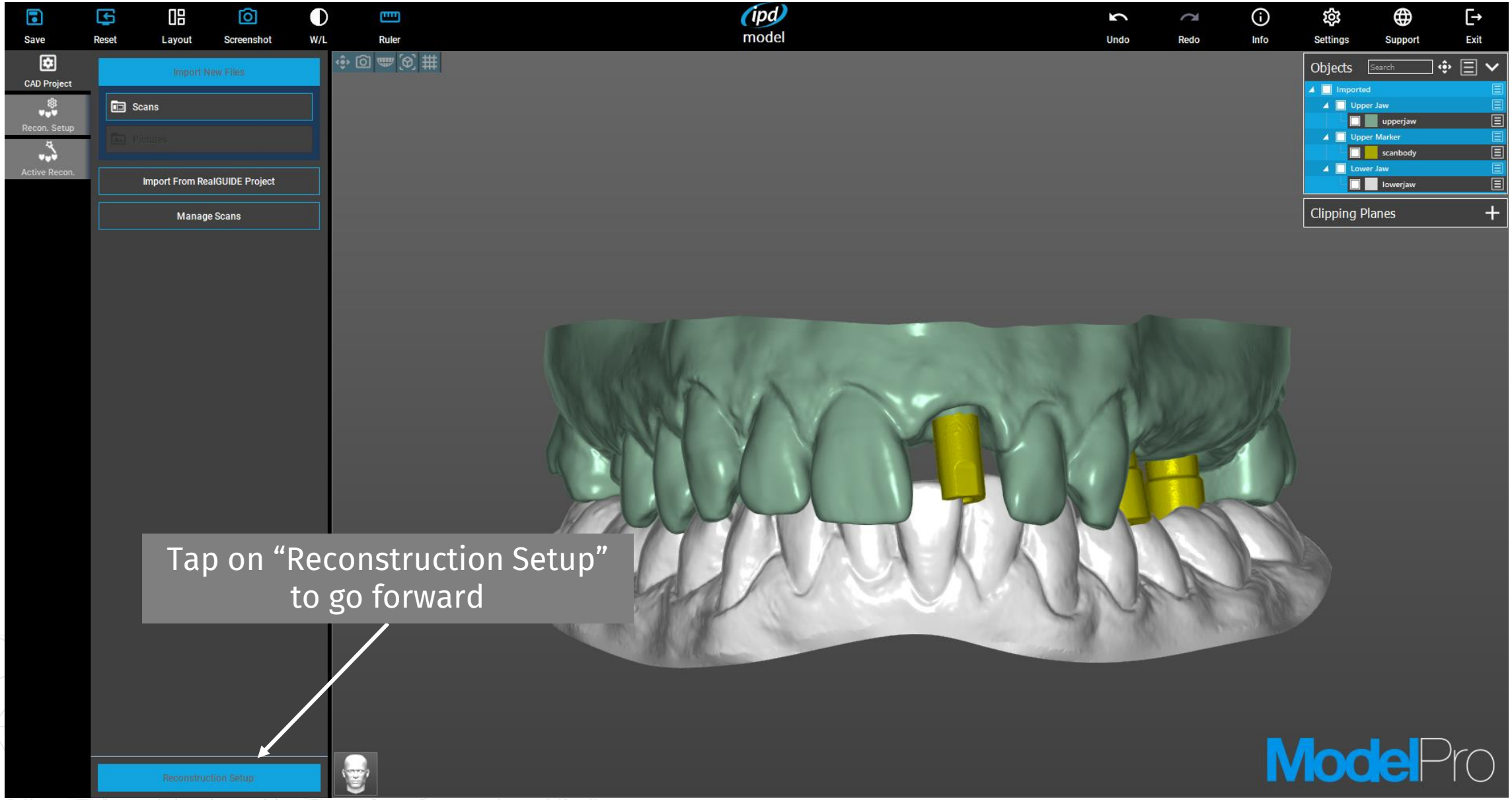

Save
Reset
Layout
Screenshot
W/L
Ruler
ipd
model
Undo
Redo
Info
Settings
Support
Exit
CAD Project
Recon. Setup
Active Recon.
Import New Files
Scans
Pictures
Import From RealGUIDE Project
Manage Scans
Reconstruction Setup
Clipping Planes
Click to import scanning files
ModelPro


Import Scans
Define file type to import
Object Type:
Upper Jaw
Keep Original Position
Same As
Look in:
C:\Users\anselmo\Documents\M...2024\SAMPLE MODELS\SCAN BODY
My Co...
anselmo
Name
Size
Type
Date Modifi
scanbody.stl
19...iB stl File 25/09/... 10:07
lowerjaw.stl
25...iB stl File 28/04/2023 9:49
upperjaw.stl
31...iB stl File 28/04/2023 9:48
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

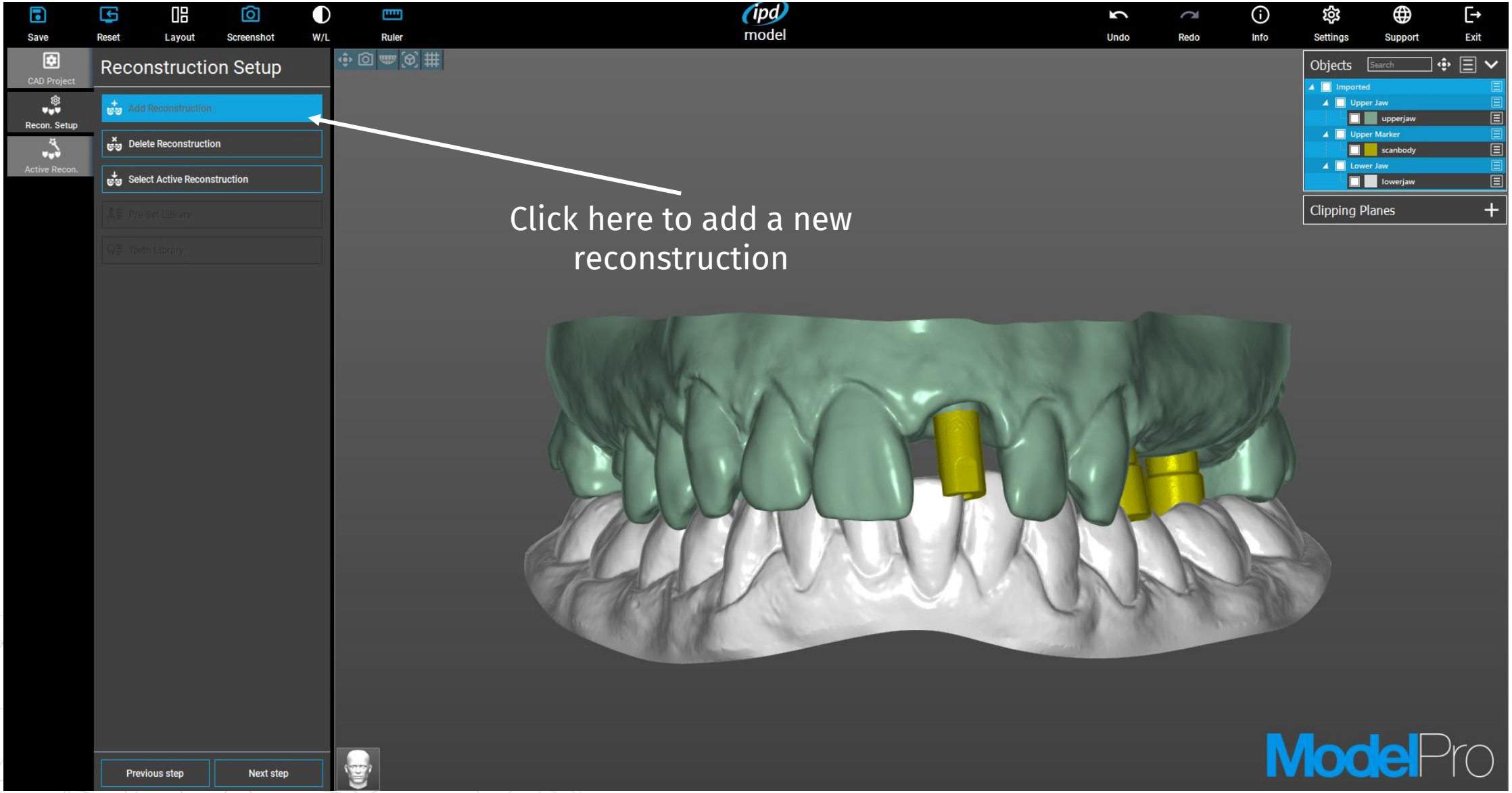

Import Scans
Object Type:
Lower Jaw
Lower Jaw
Upper Jaw
Lower Marker
Upper Marker
Generic
Same As
upperjaw
Look in:
C:\Users\anselmo\Documents\M...2024\SAMPLE MODELS\SCAN BODY
My Co...
anselmo
Name
Size
Type
Date Modifi
scanbody.stl
19...iB stl File 25/09/... 10:07
lowerjaw.stl
25...iB stl File 28/04/2023 9:49
upperjaw.stl
31...iB stl File 28/04/2023 9:48
Import the relevant implant marker STL as “Upper/lower Marker”
File name:
scanbody.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

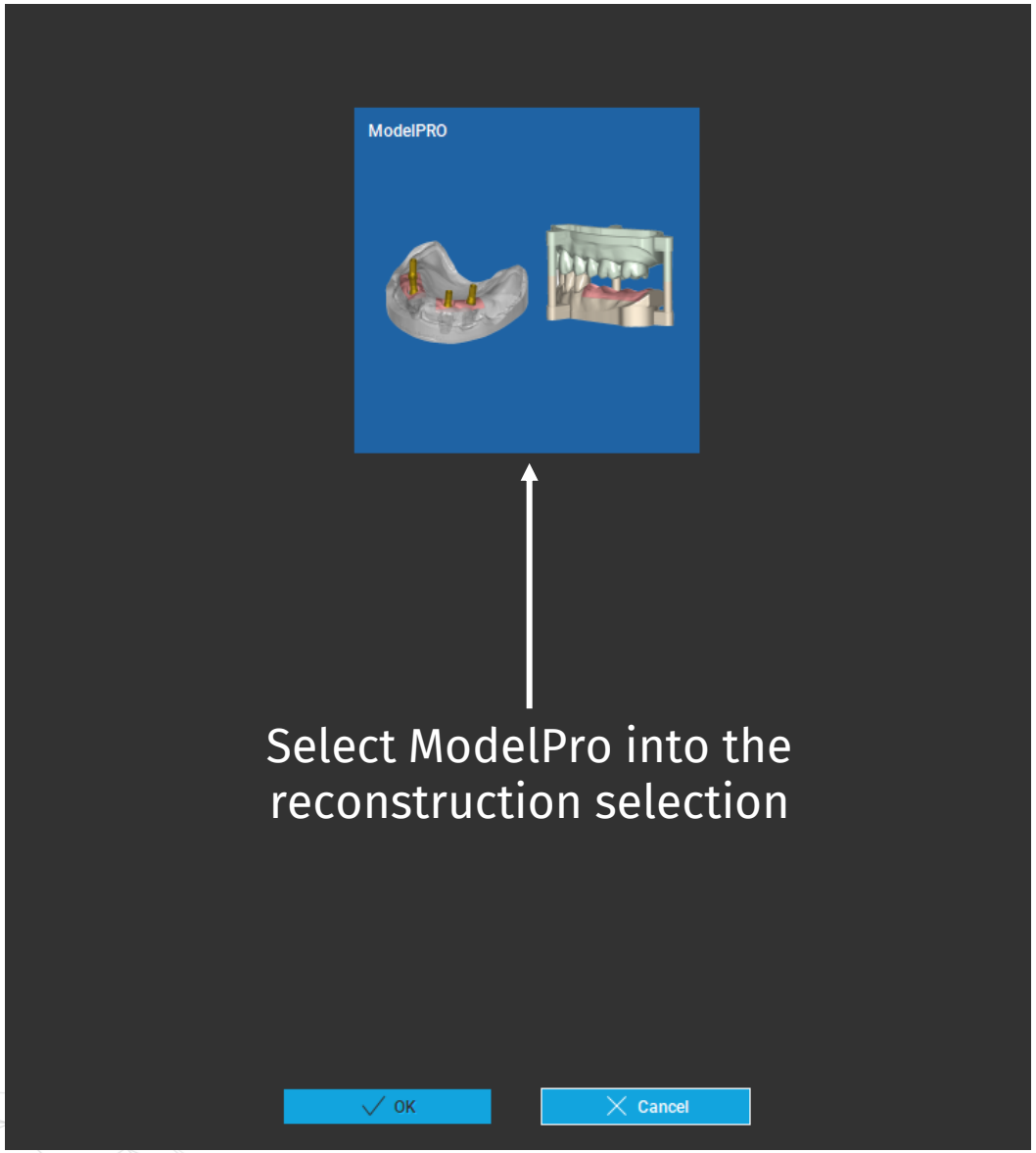

Save
Reset
Layout
Screenshot
W/L
Ruler
ipd model
Undo
Redo
Info
Settings
Support
Exit
CAD Project
Recon. Setup
Active Recon.
Import New Files
Scans
Pictures
Import From RealGUIDE Project
Manage Scans
Reconstruction Setup
Objects
Search
Imported
Upper Jaw
upperjaw
Upper Marker
scanbody
Lower Jaw
lowerjaw
Clipping Planes
If the orientation of the scans does not match the CAD view, open "Scan Orientering" in the "Manage Scan" tools to correct it.
ModelPro



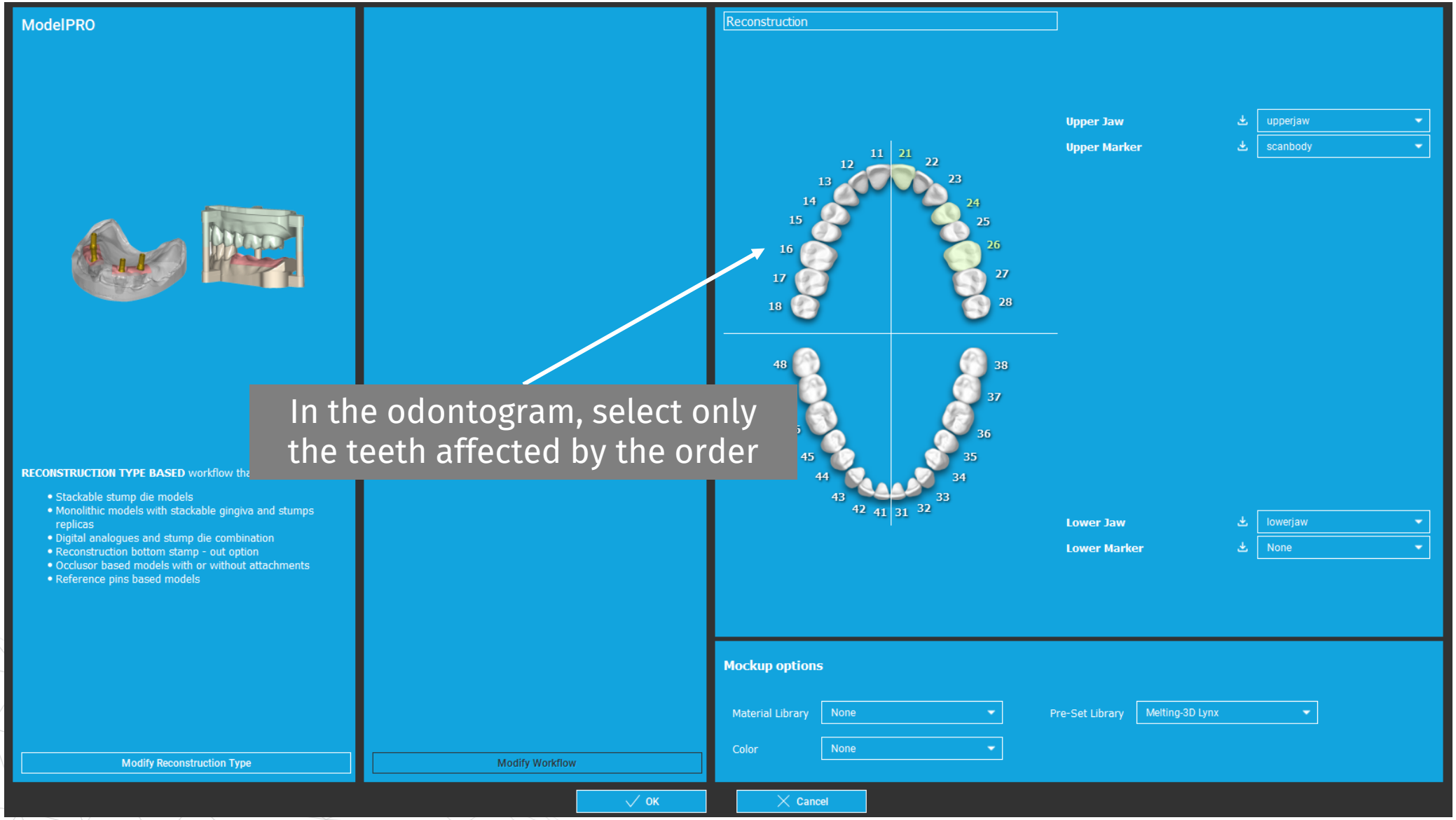
Tap on “Reconstruction Setup” to go forward



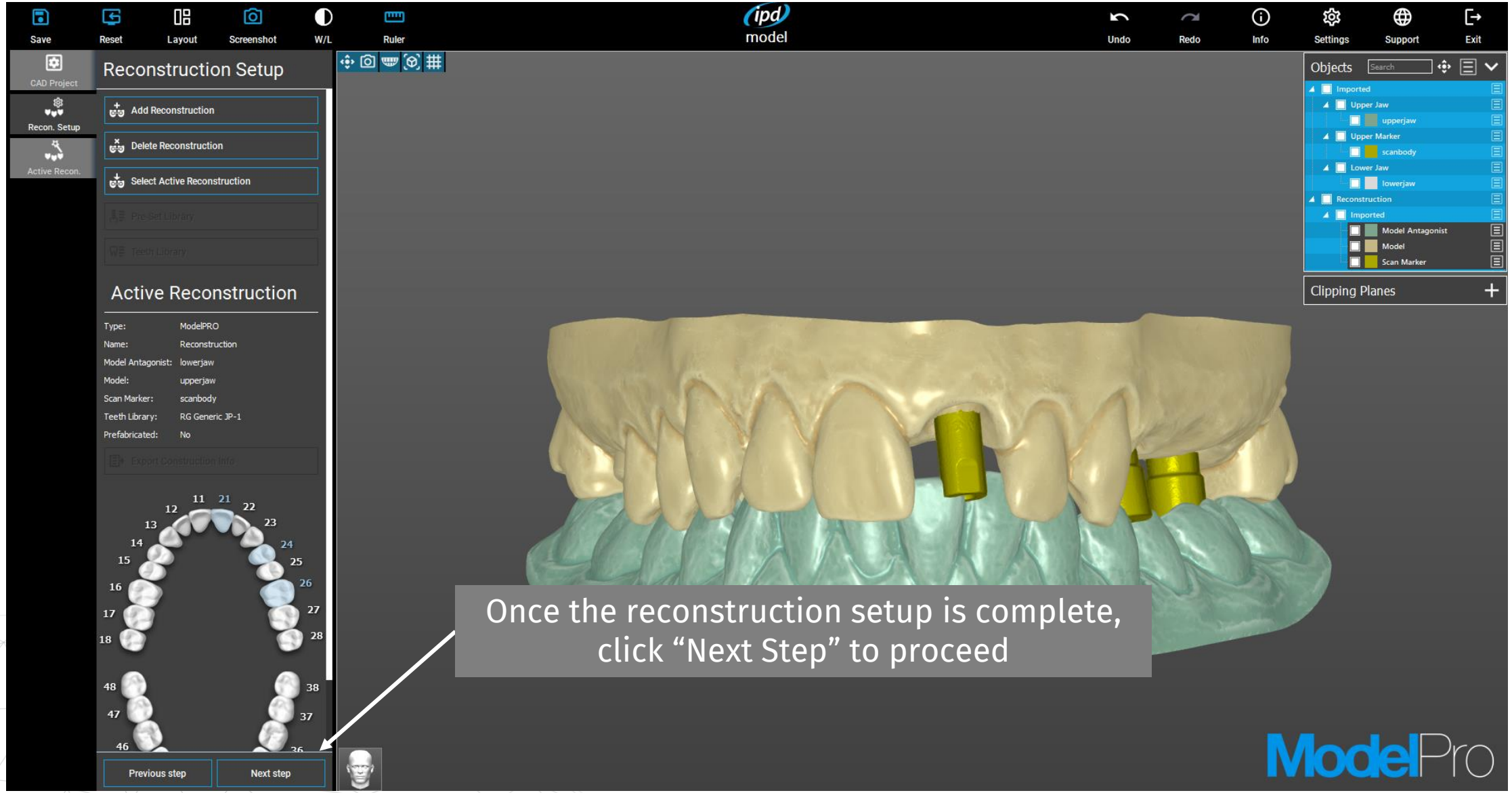
Click here to add a new reconstruction



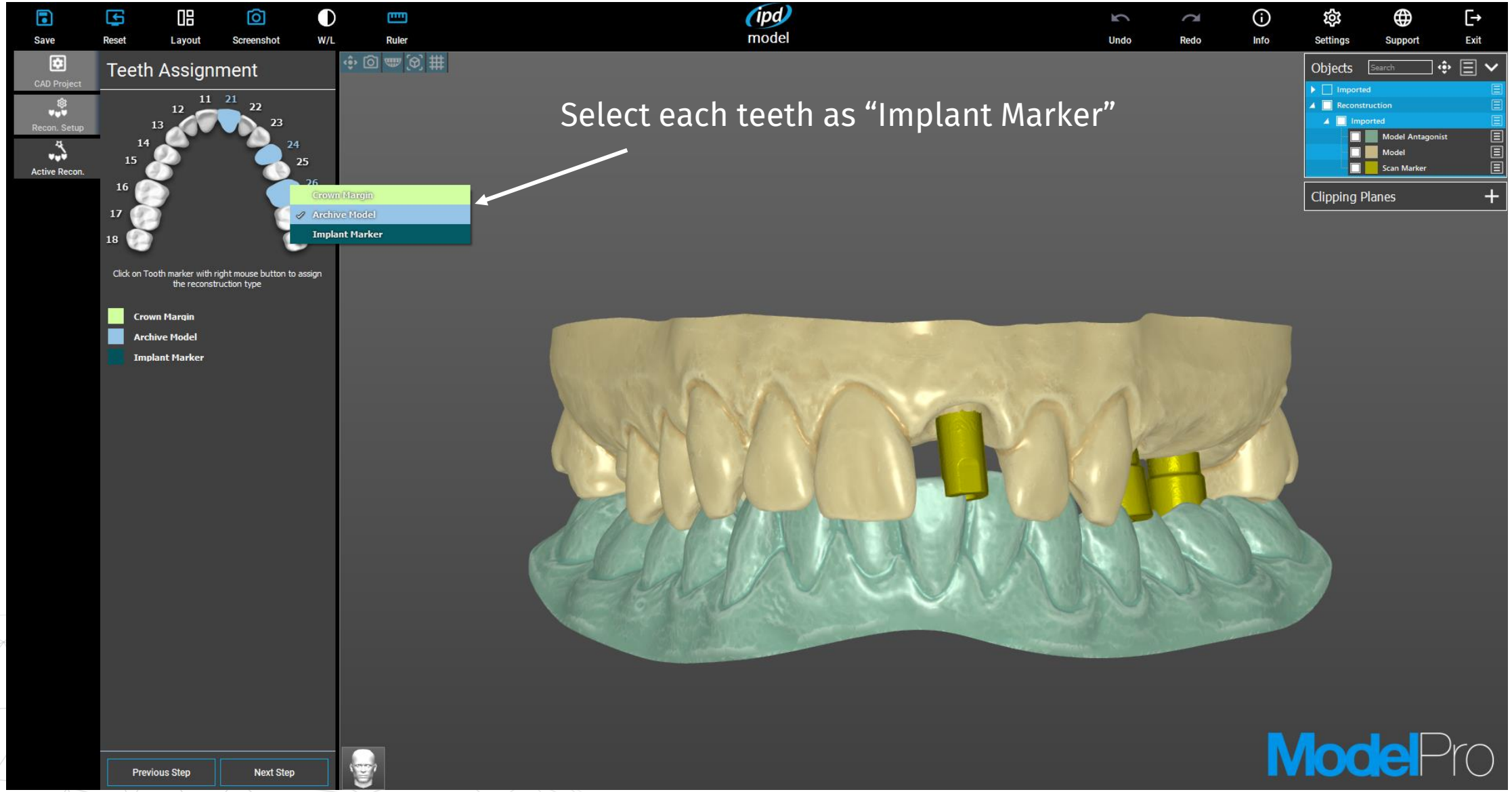
Select ModelPro into the reconstruction selection

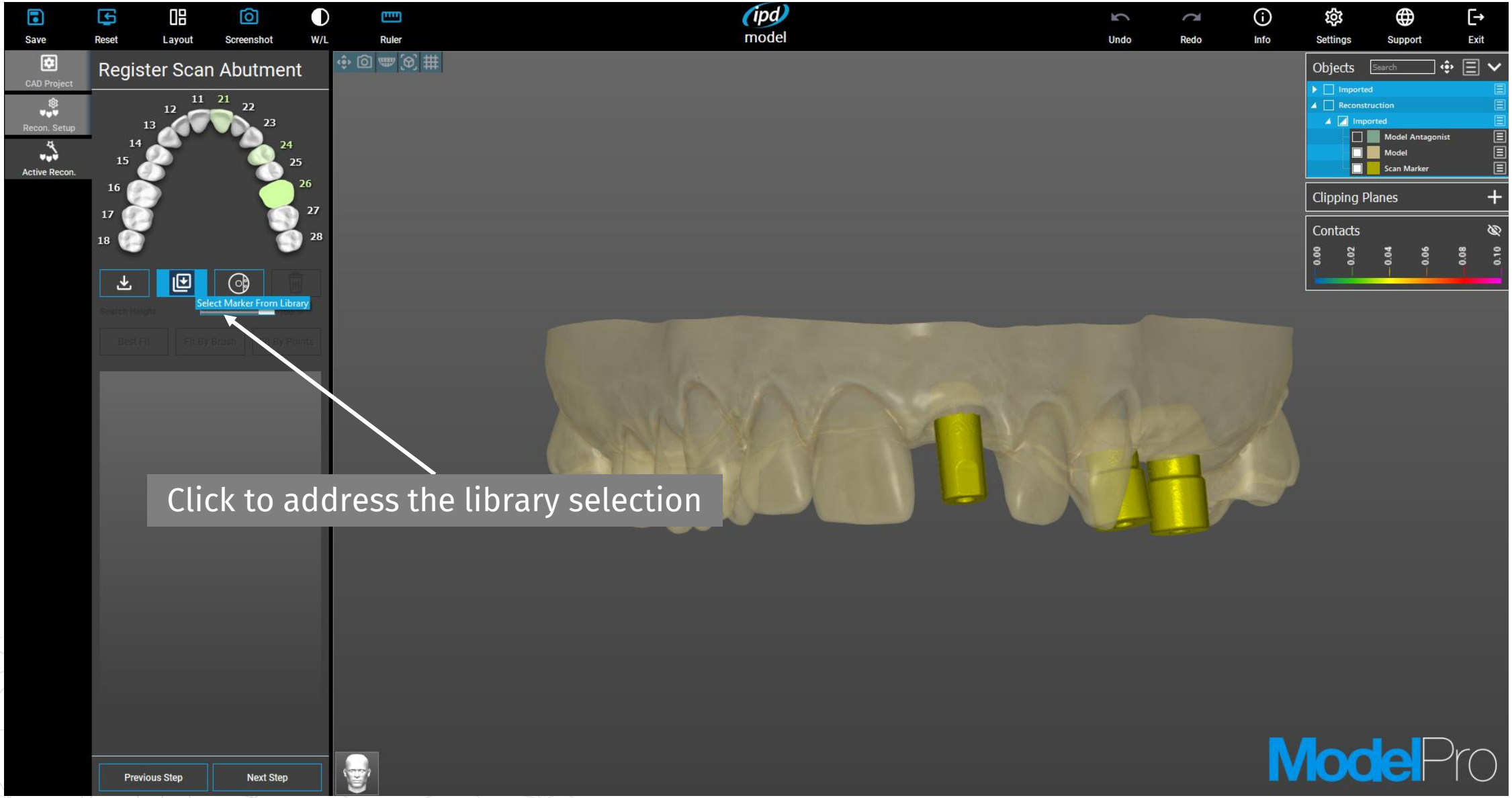


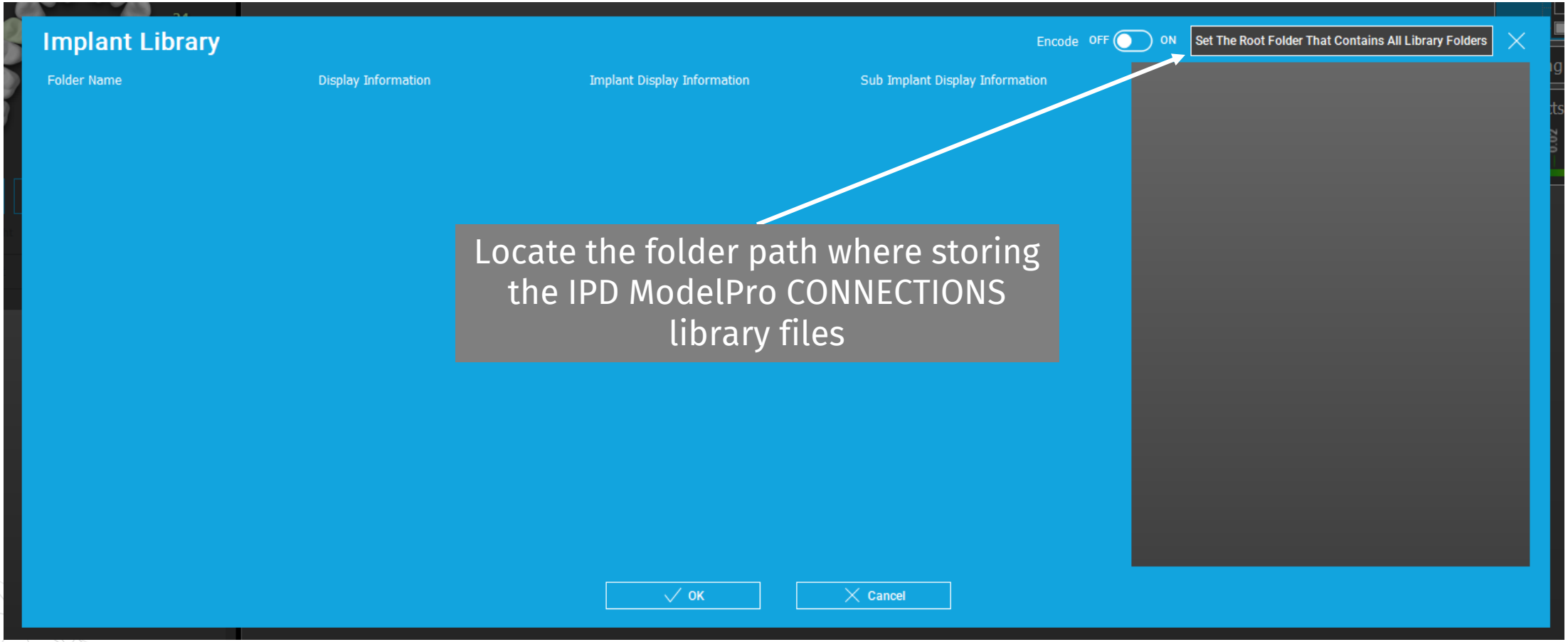
In the odontogram, select only the teeth affected by the order

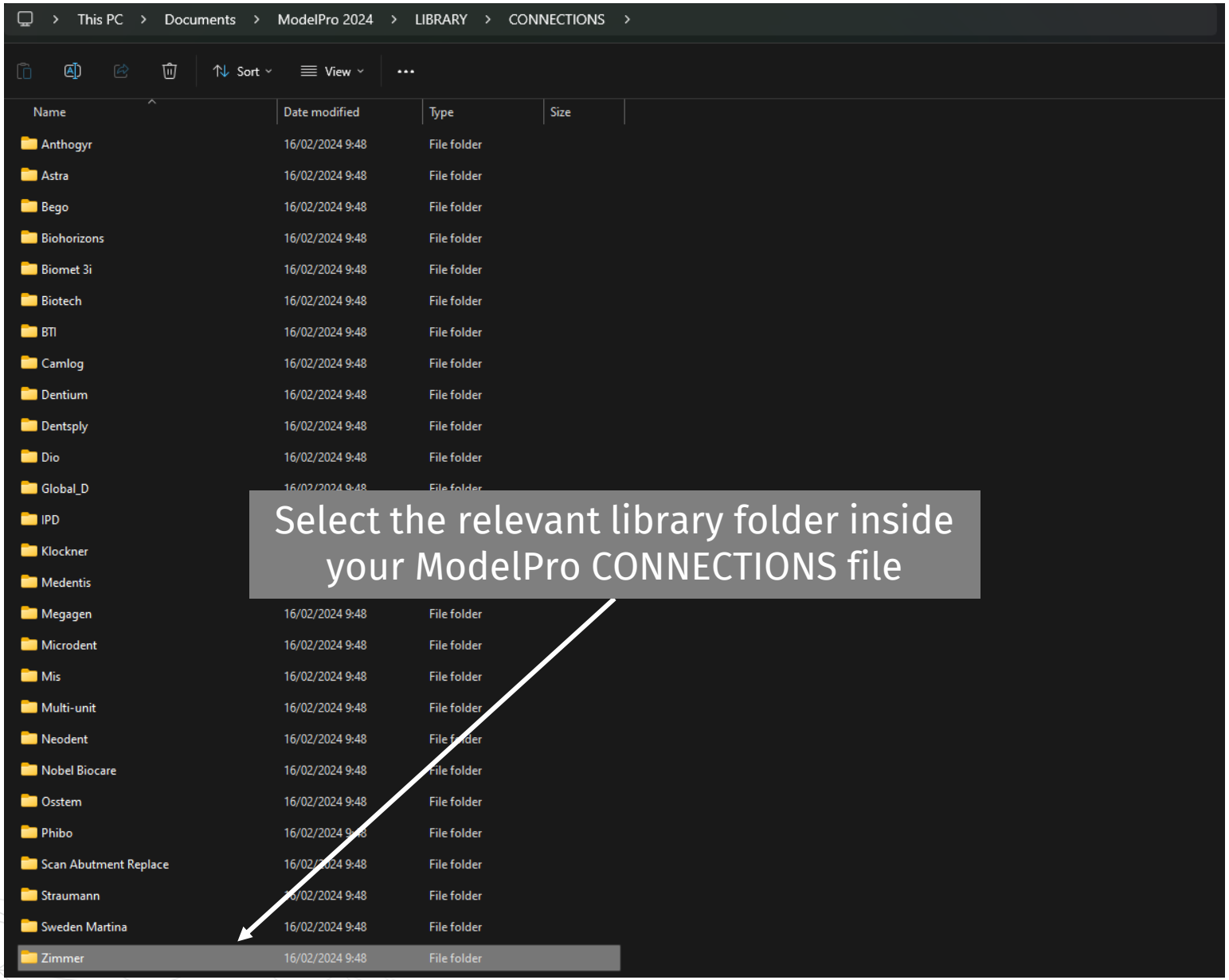


Once the reconstruction setup is complete, click “Next Step” to proceed

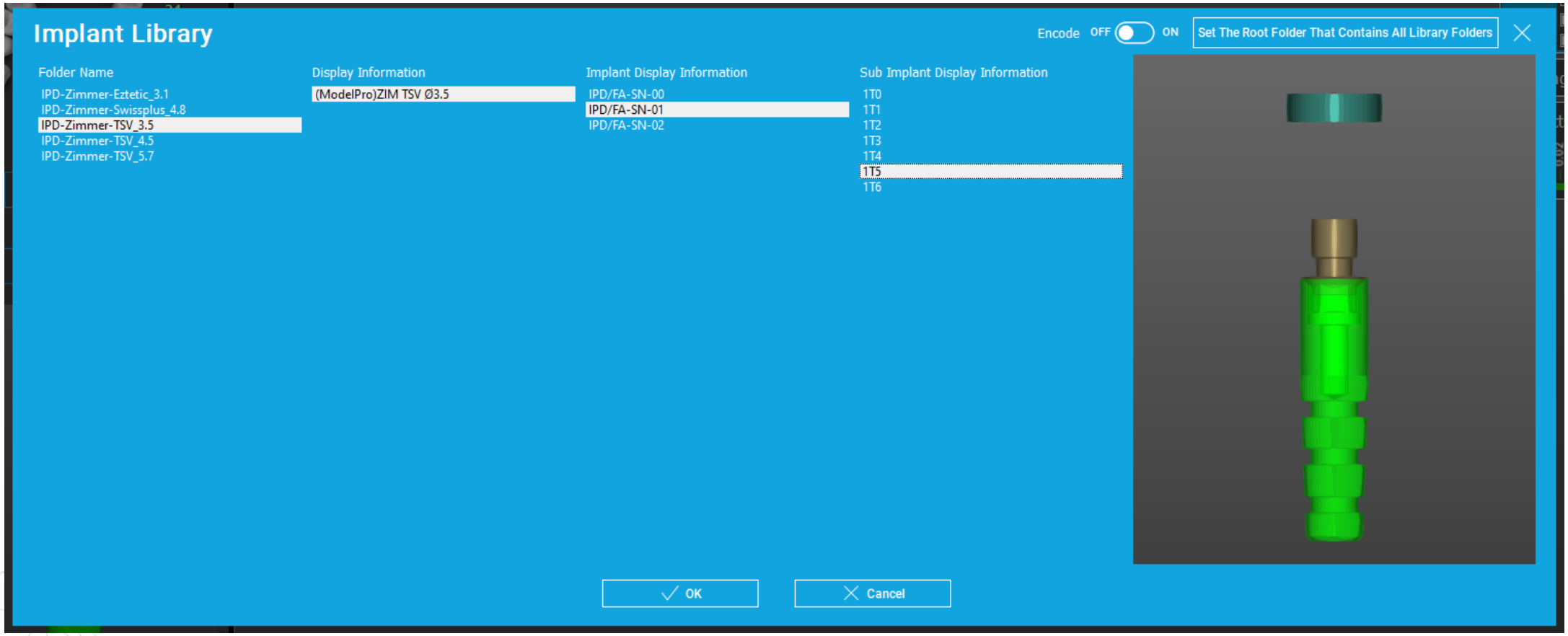

Save
Reset
Layout
Screenshot
W/L
Ruler
ipd model
Undo
Redo
Info
Settings
Support
Exit
CAD Project
Recon. Setup
Active Recon.
Teeth Assignment
11 21 12 22 13 23 14 24 15 25 16 26 17 18
Crown Margin
Archive Model
Implant Marker
Click on Tooth marker with right mouse button to assign the reconstruction 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
Scan Marker
Clipping Planes
ModelPro

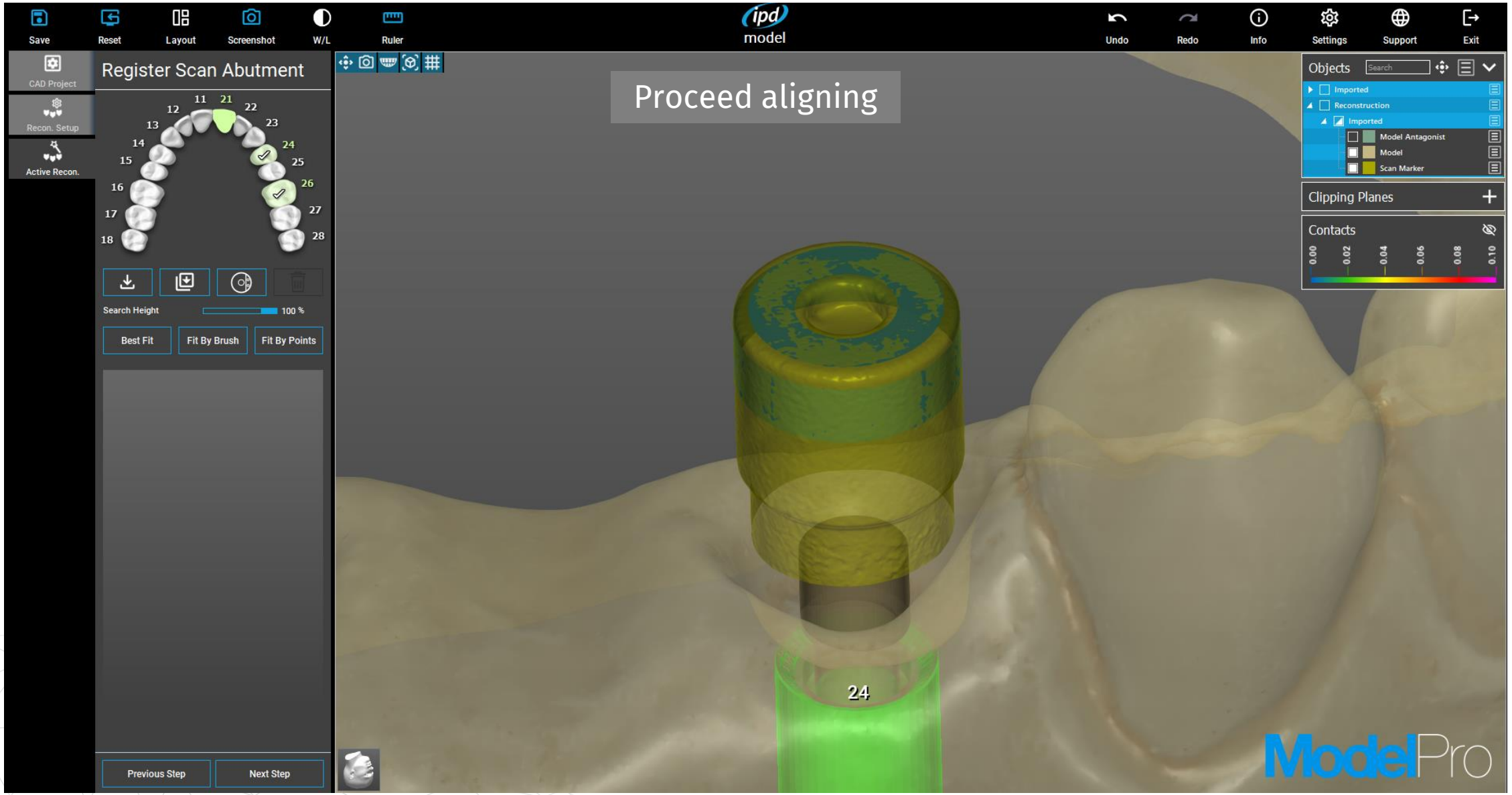

Save
Reset
Layout
Screenshot
W/L
Ruler
ipd
model
Undo
Redo
Info
Settings
Support
Exit
CAD Project
Recon. Setup
Active Recon.
Register Scan Abutment
11 21 12 22 13 23 14 24 15 25 16 26 17 27 18 28
Select Marker From Library
Best Fit
Fit By Brush
Fit By Points
Previous Step
Next Step
Objects
Search
Imported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


This PC > Documents > ModelPro 2024 > LIBRARY > CONNECTIONS >
Sort
View
Name
Date modified
Type
Size
Anthogyr 16/02/2024 9:48 File folder
Astra 16/02/2024 9:48 File folder
Bego 16/02/2024 9:48 File folder
Biohorizons 16/02/2024 9:48 File folder
Biomet 3i 16/02/2024 9:48 File folder
Biotech 16/02/2024 9:48 File folder
BTI 16/02/2024 9:48 File folder
Camlog 16/02/2024 9:48 File folder
Dentium 16/02/2024 9:48 File folder
Dentsply 16/02/2024 9:48 File folder
Dio 16/02/2024 9:48 File folder
Global_D
IPD
Klockner
Medentis
Megagen 16/02/2024 9:48 File folder
Microdent 16/02/2024 9:48 File folder
Mis 16/02/2024 9:48 File folder
Multi-unit 16/02/2024 9:48 File folder
Neodent 16/02/2024 9:48
Nobel Biocare 16/02/2024 9:48 File folder
Osstem 16/02/2024 9:48 File folder
Phibo File folder
Scan Abutment Replace File folder
Straumann File folder
Sweden Martina 16/02/2024 9:48 File folder
Zimmer 16/02/2024 9:48 File folder
Select the relevant library folder inside your ModelPro CONNECTIONS file

Select the relevant IPD Scan Body library file




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

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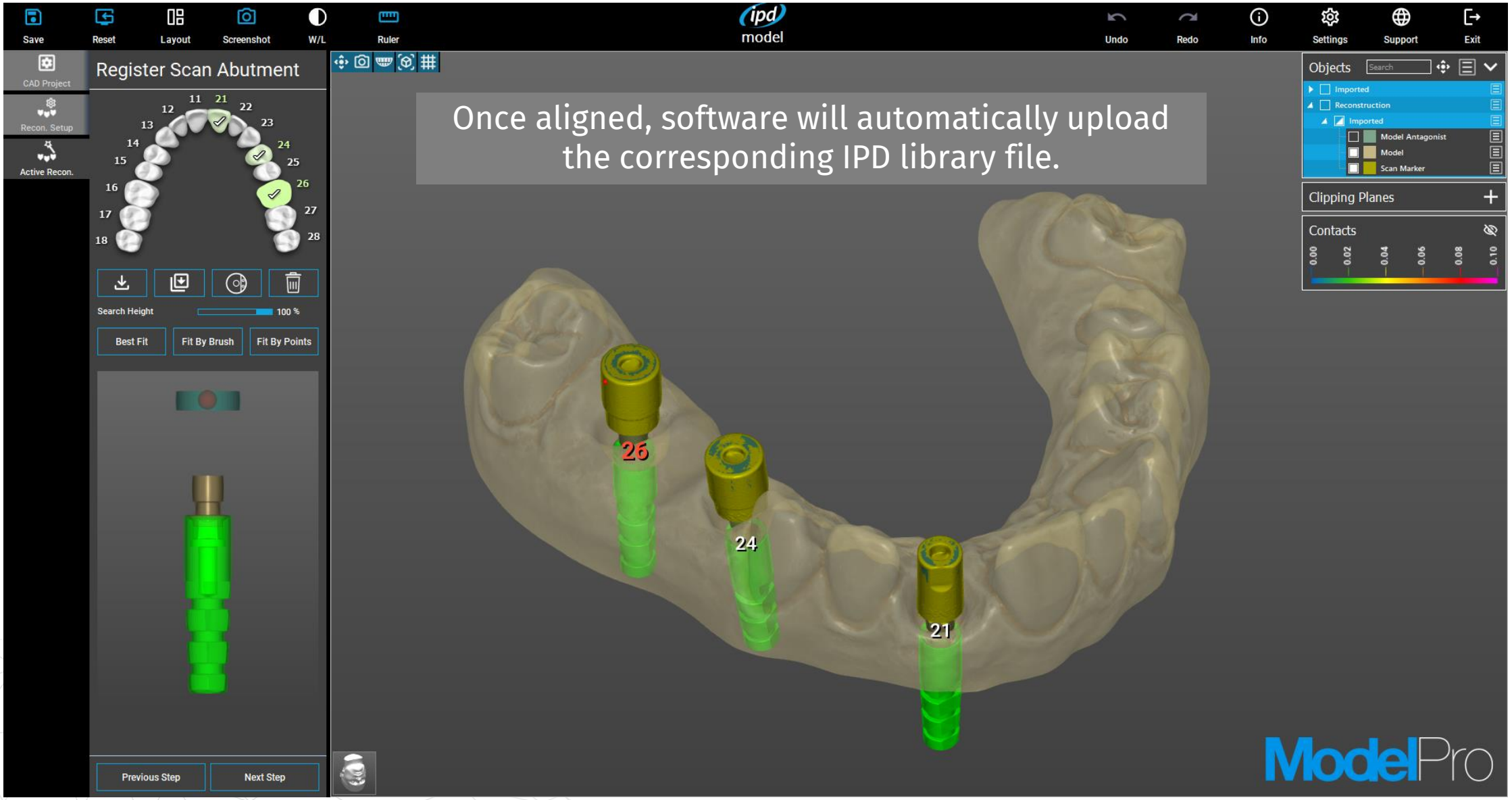

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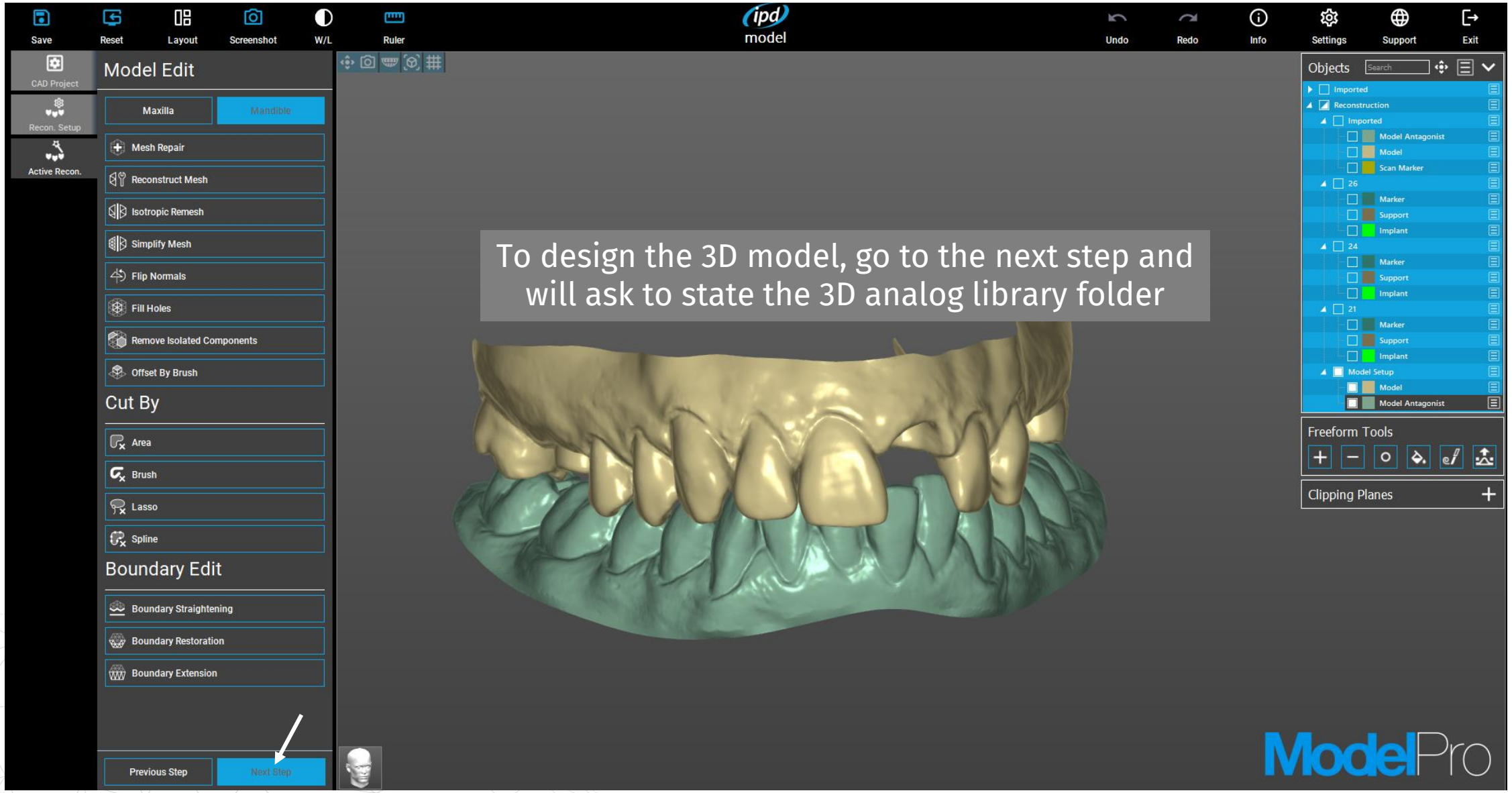
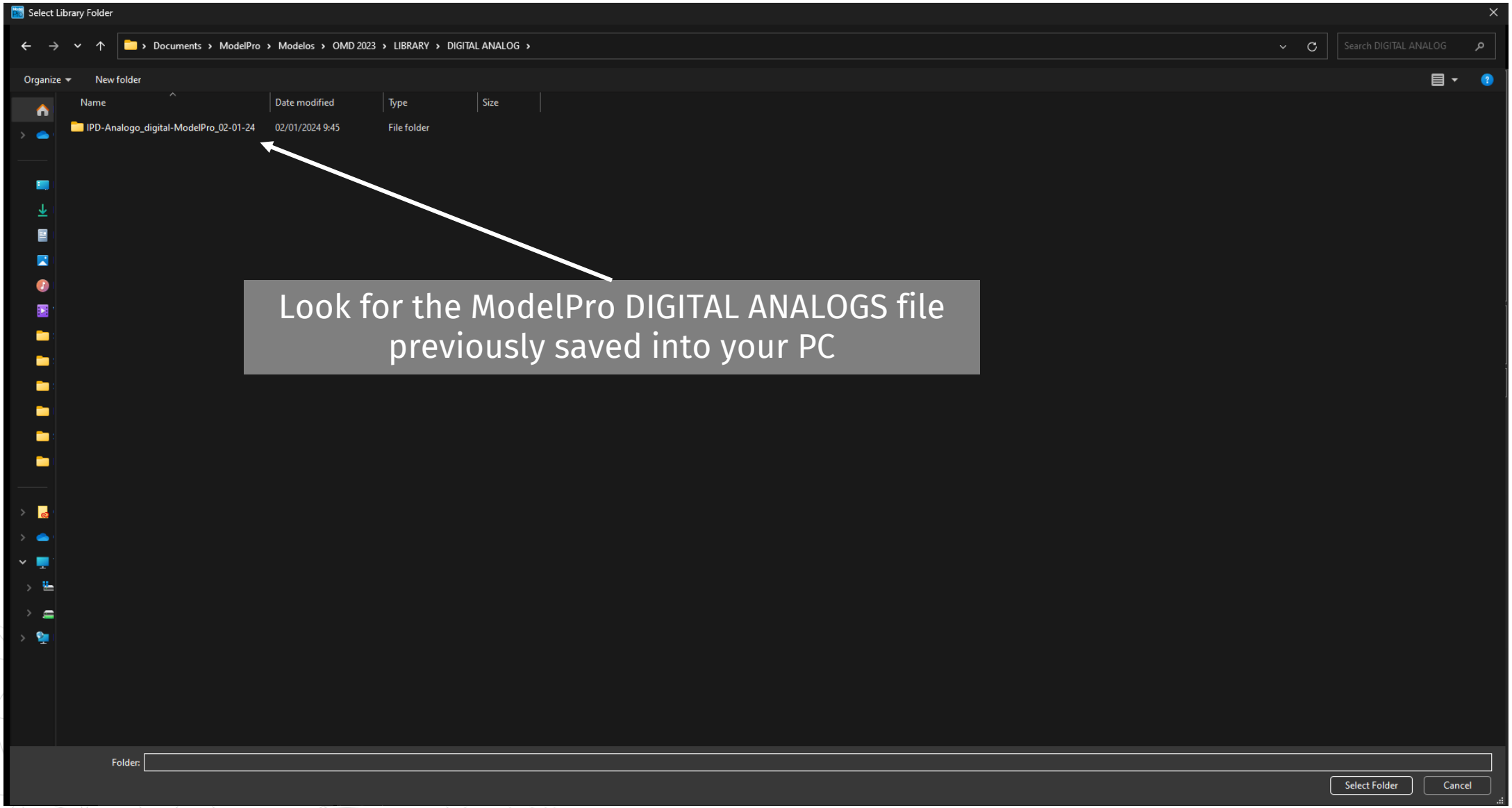
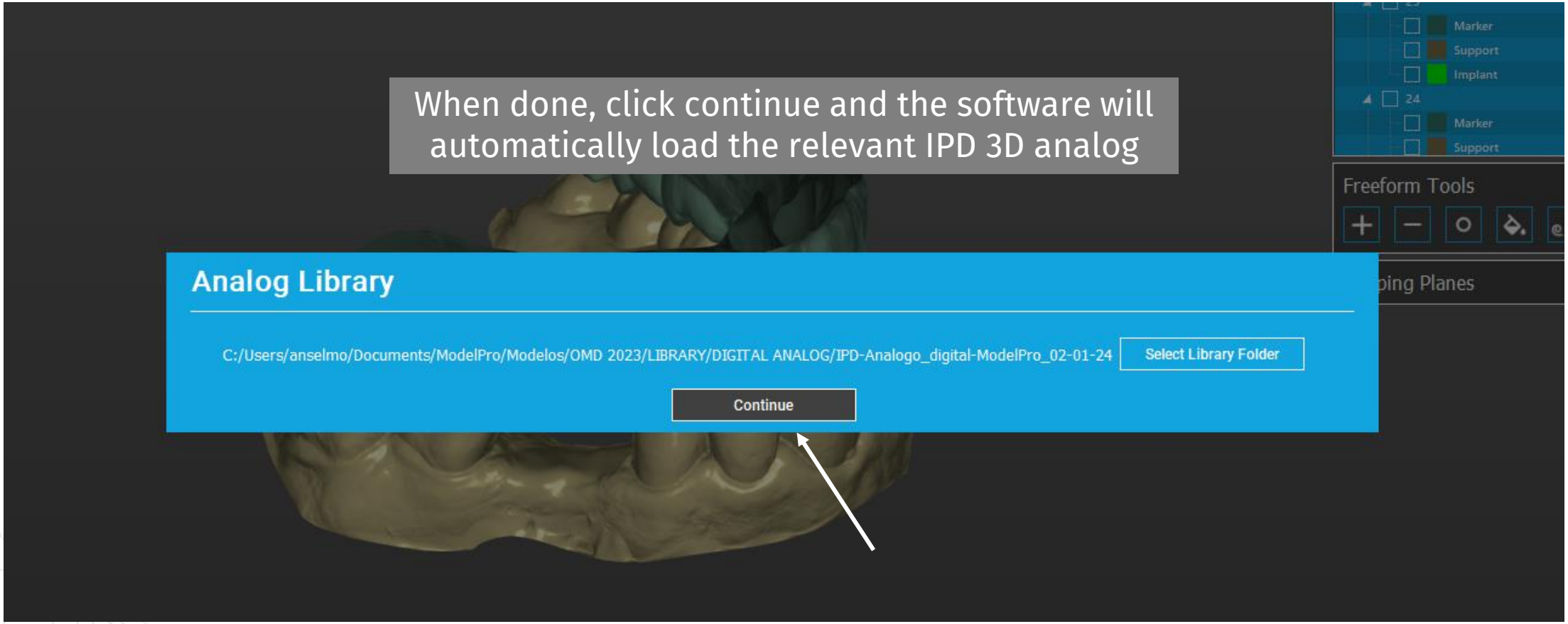


To design the 3D model, go to the next step and will ask to state the 3D analog library folder



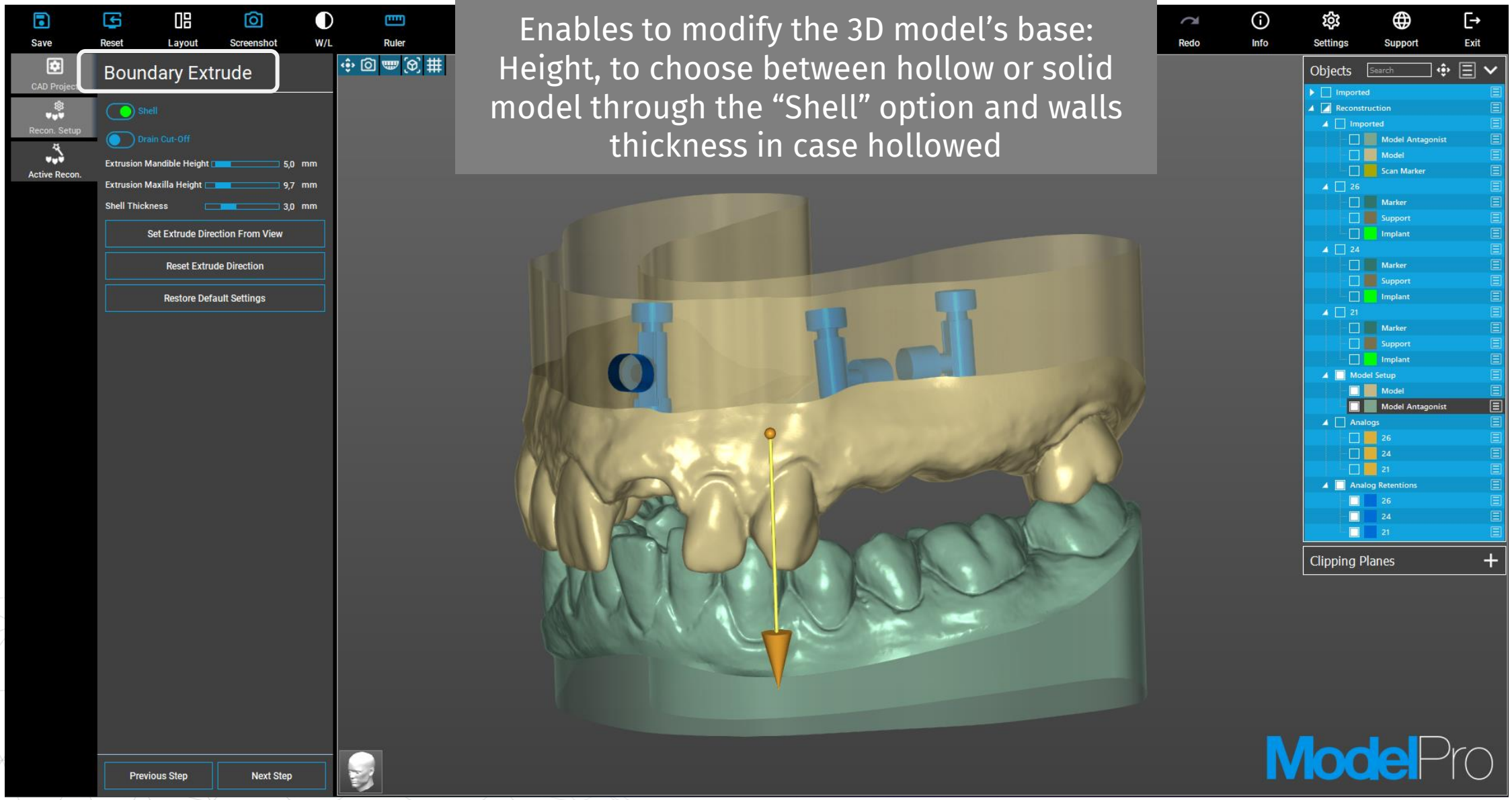
Look for the ModelPro DIGITAL ANALOGS file previously saved into your PC

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



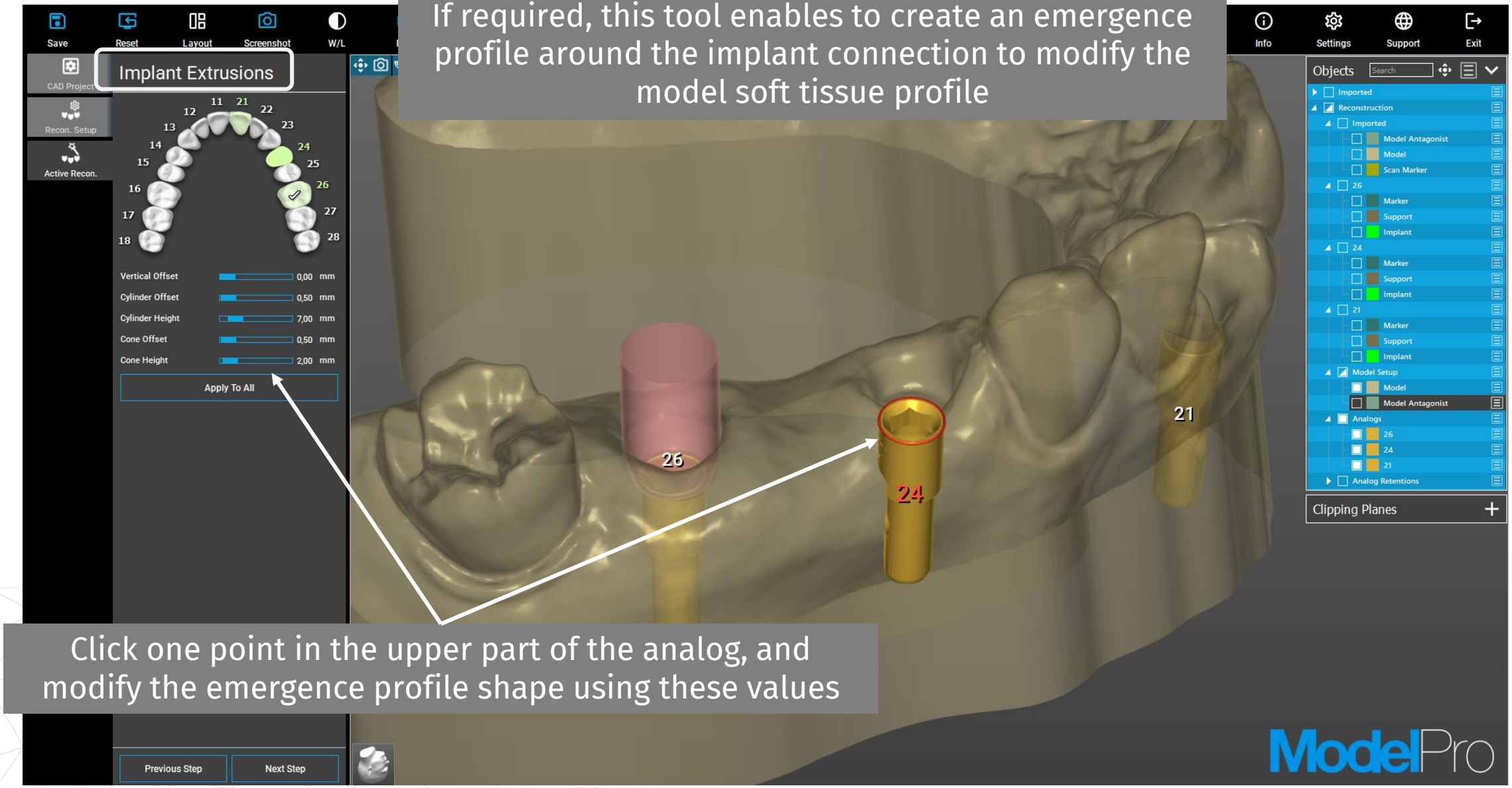
Boundary Extrude

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



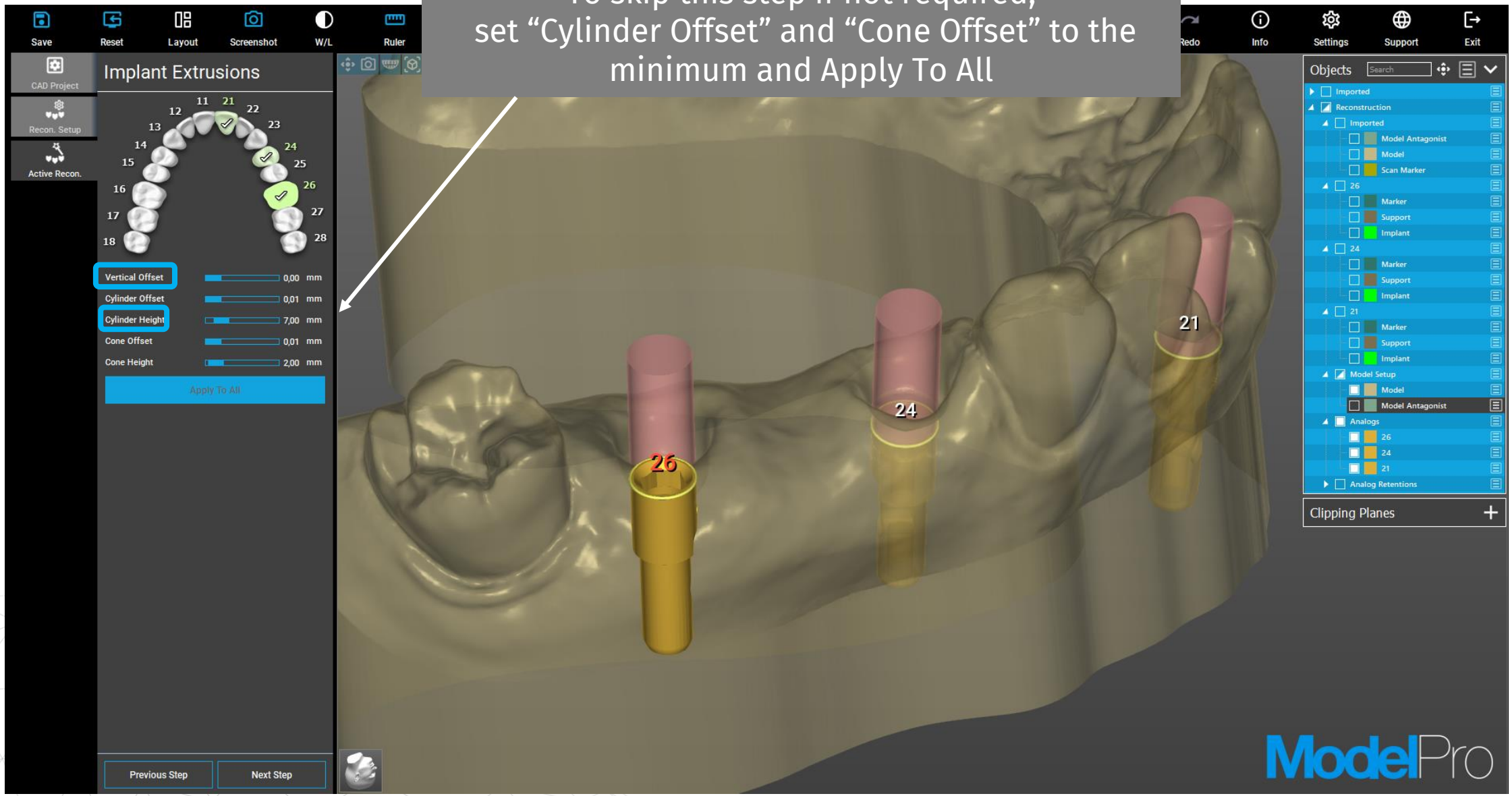
Implant Extrusions

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



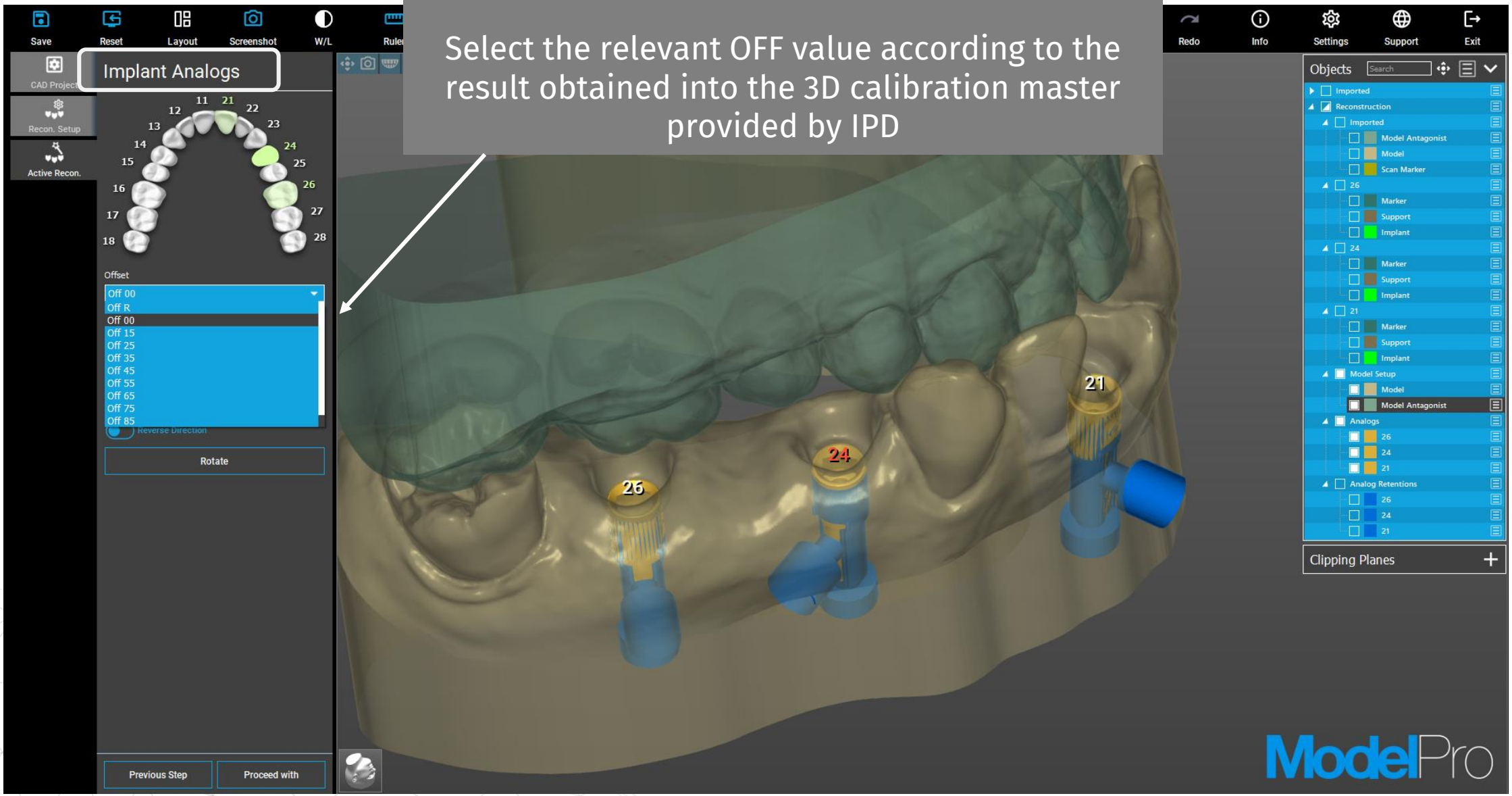
Click one point in the upper part of the analog, and modify the emergence profile shape using these values

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

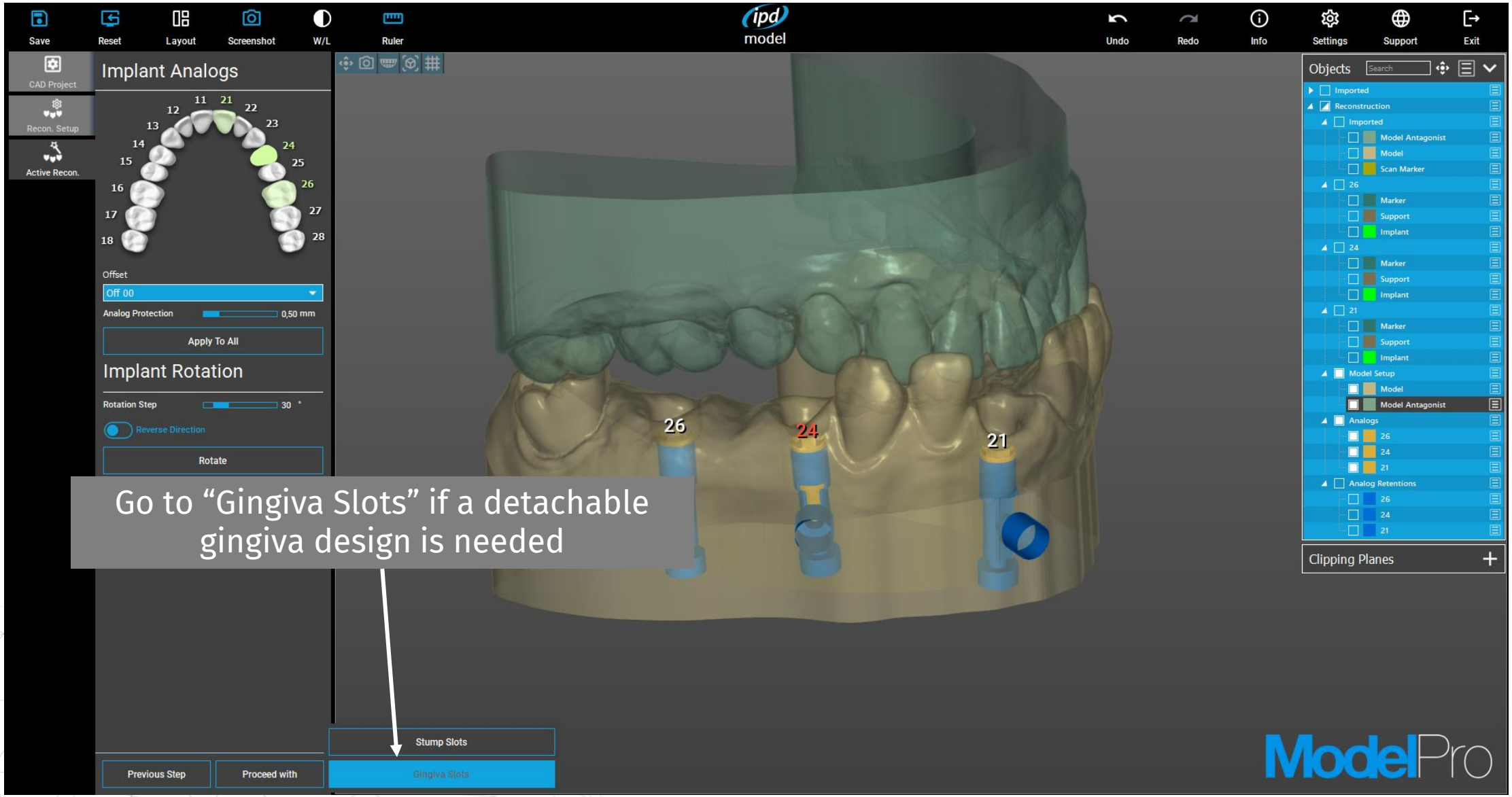


Implant Analogs

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

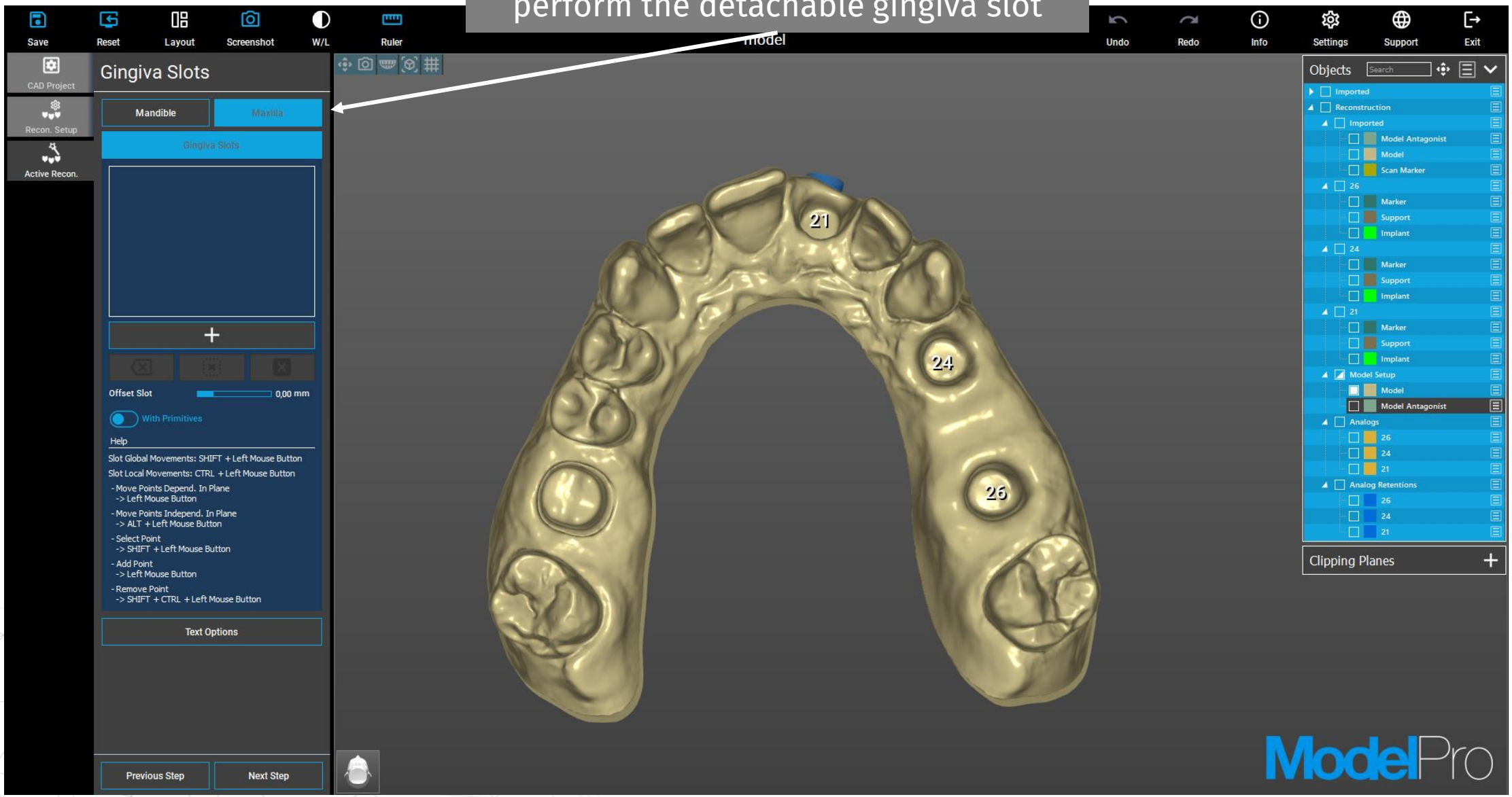


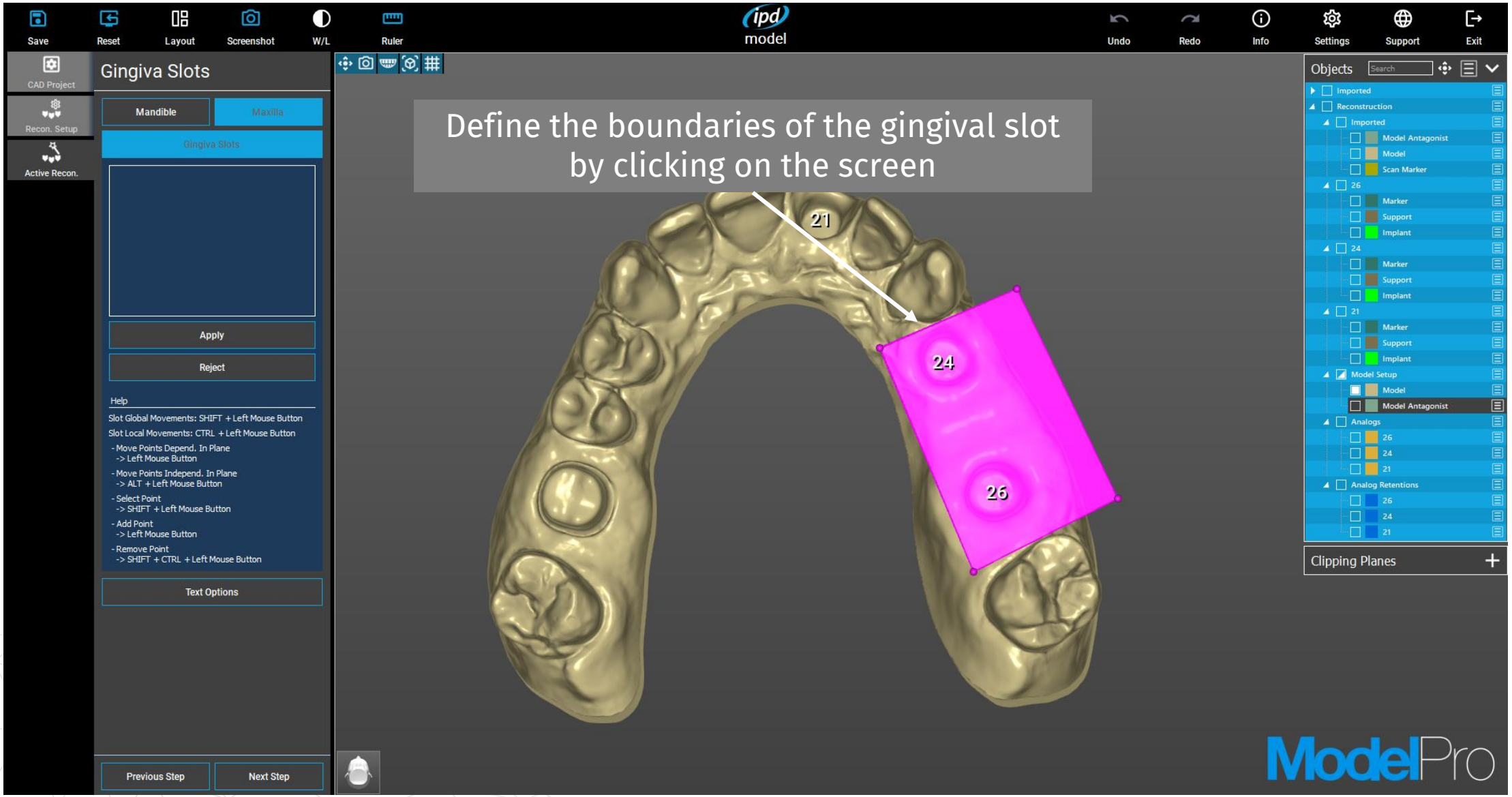
Click on “Rotate” to modify the facing of the side screw channel to the most convenient situation



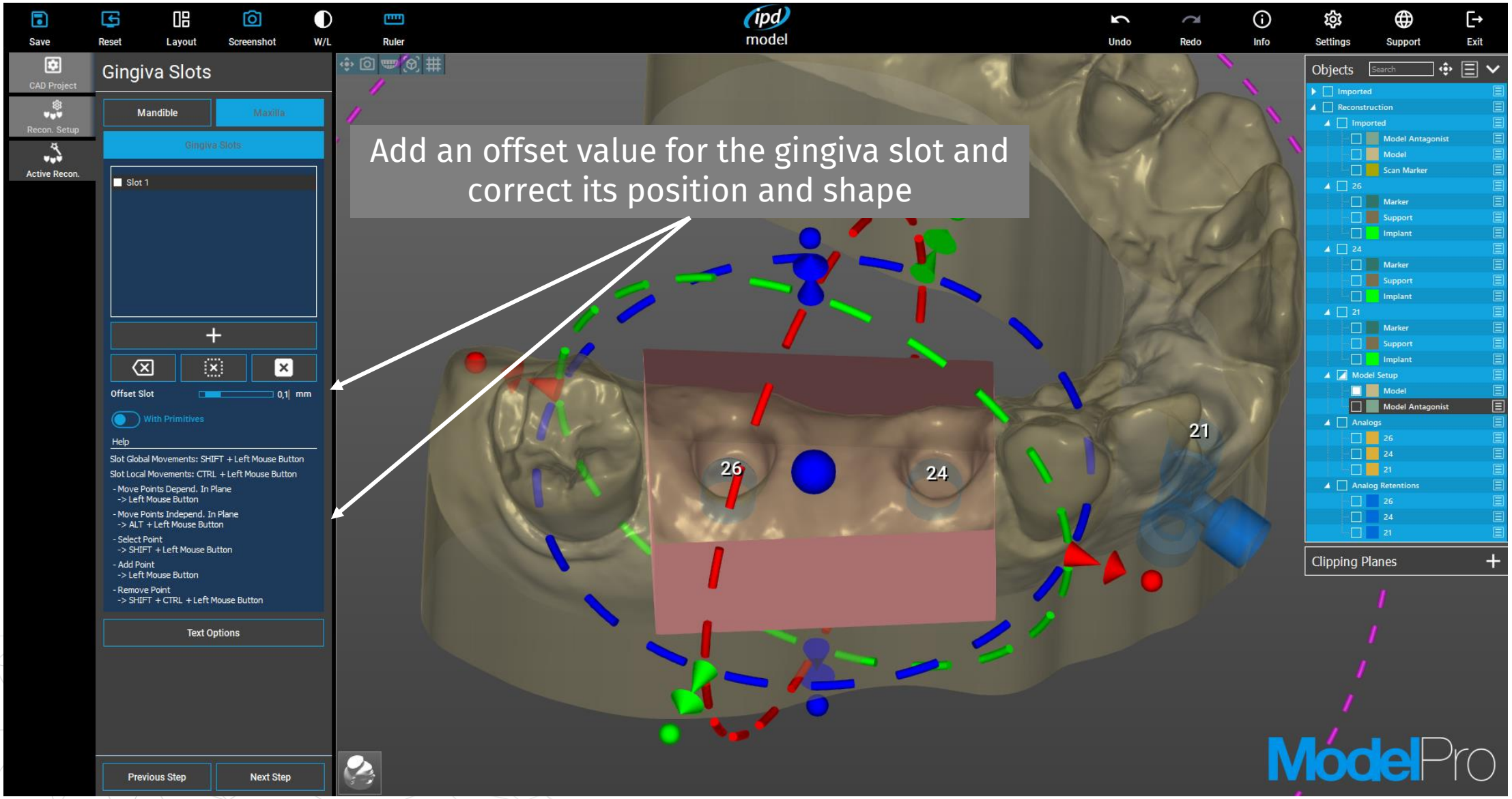
Go to “Gingiva Slots” if a detachable gingiva design is needed

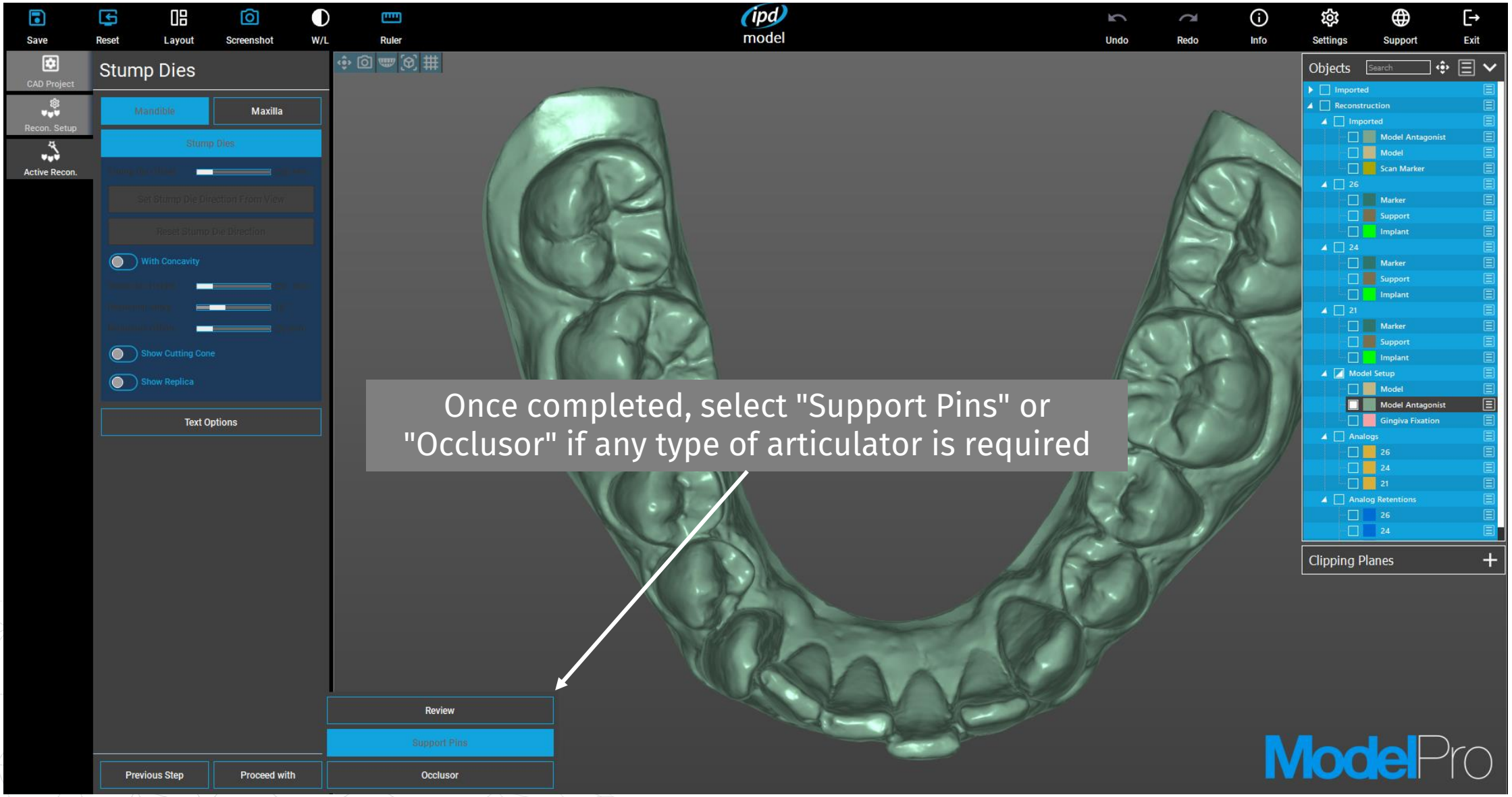
Select the relevant jaw where to perform the detachable gingiva slot




Save
Reset
Layout
Screenshot
W/L
Ruler
ipd model
Undo
Redo
Info
Settings
Support
Exit
CAD Project
Recon. Setup
Active Recon.
Gingiva Slots
Mandible
Maxilla
Gingiva Slots
Apply
Reject
Help
Slot Global Movements: SHIFT + Left Mouse Button
Slot Local Movements: CTRL + Left Mouse Button
- Move Points Depend. In Plane
-> Left Mouse Button
- Move Points Independ. In Plane
-> ALT + Left Mouse Button
- Select Point
-> SHIFT + Left Mouse Button
- Add Point
-> Left Mouse Button
- Remove Point
-> SHIFT + CTRL + Left Mouse Button
Text Options
Previous Step
Next Step
Define the boundaries of the gingival slot by clicking on the screen
21
24
26
Objects
Search
Imported
Reconstruction
Imported
Model Antagonist
Model
Scan Marker
26
Marker
Support
Implant
24
Marker
Support
Implant
21
Marker
Support
Implant
Model Setup
Model
Model Antagonist
Analogs
26
24
21
Analog Retentions
26
24
21
Clipping Planes
ModelPro

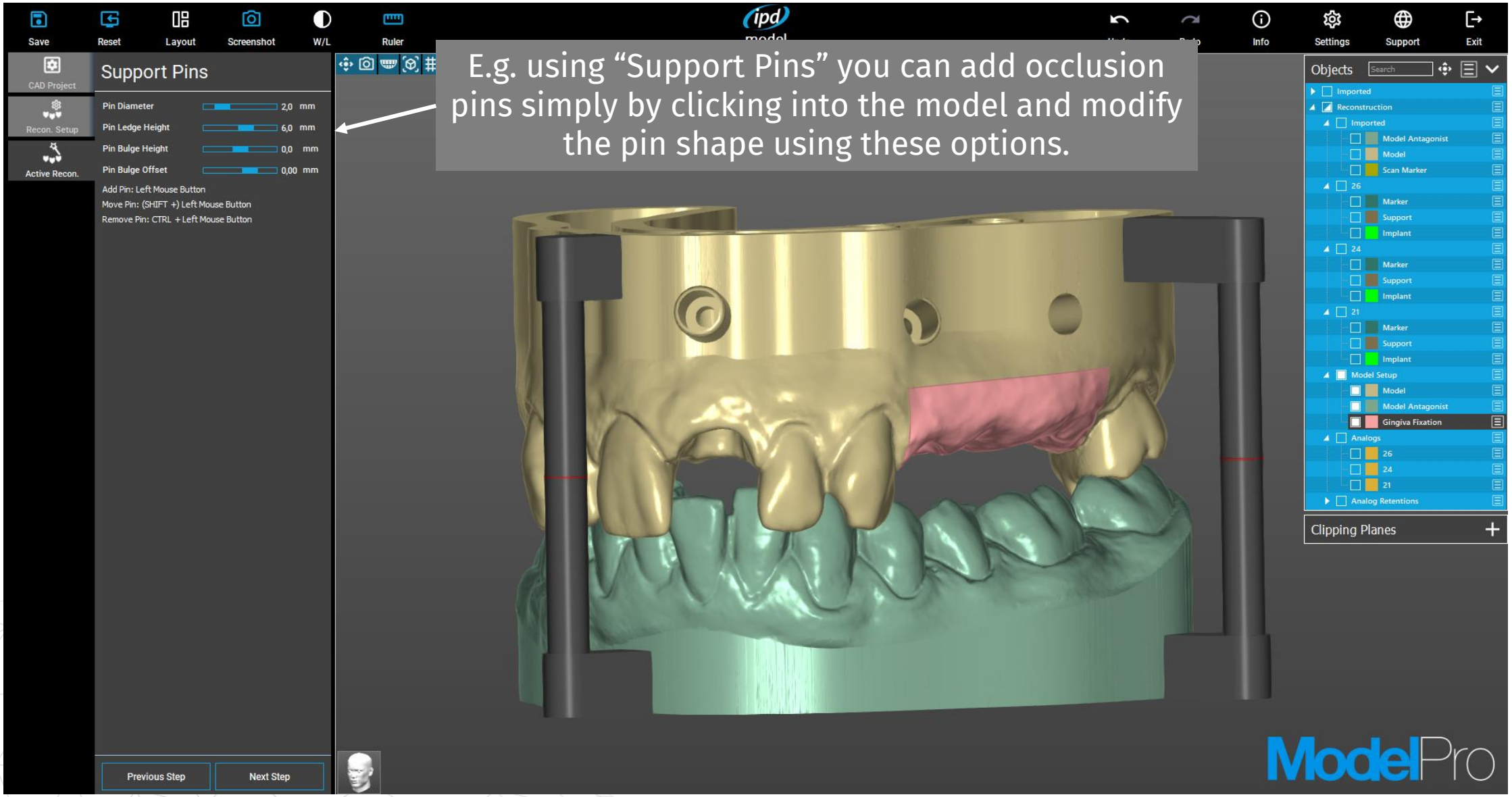
Add an offset value for the gingiva slot and correct its position and shape



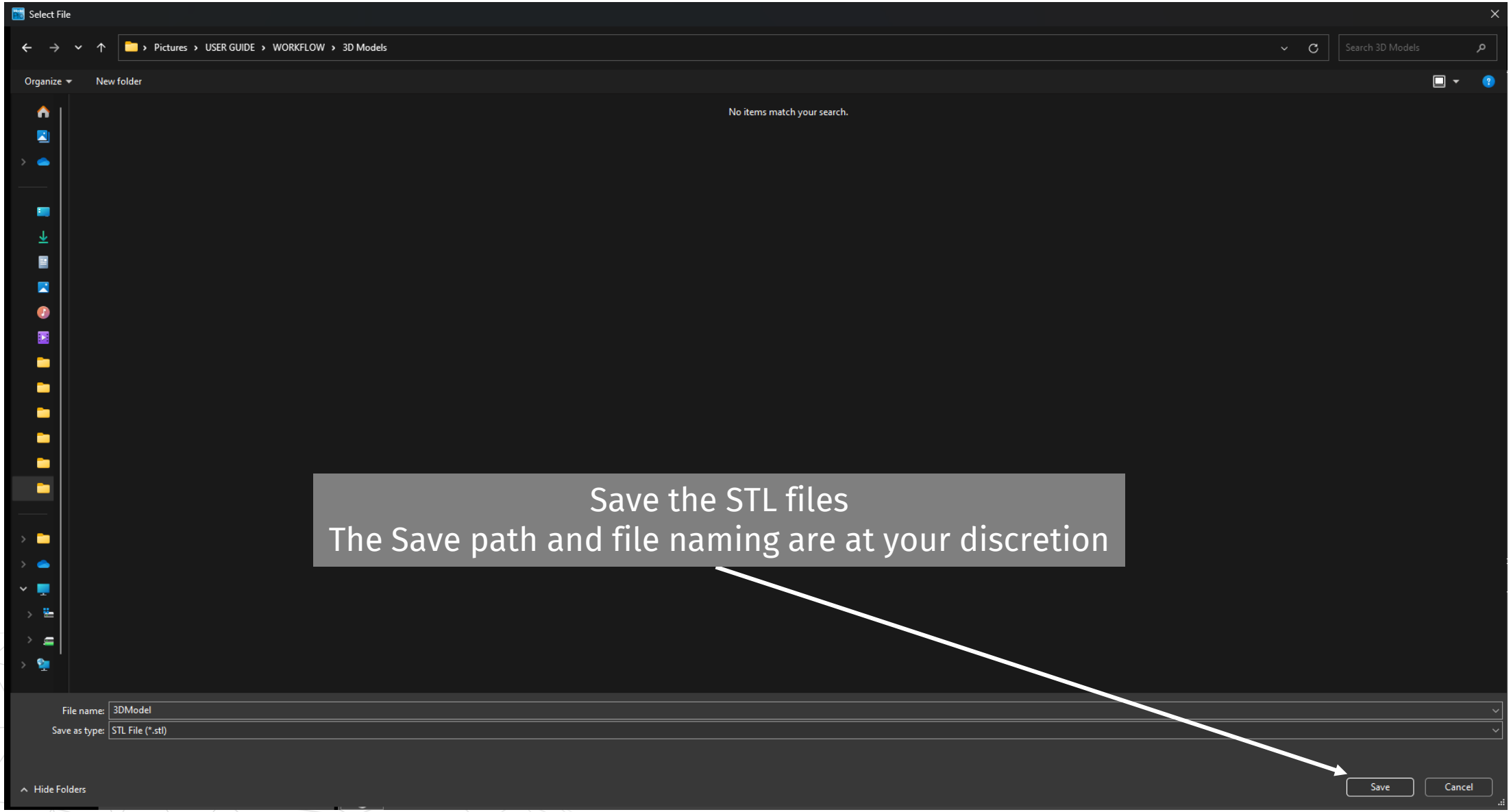


Once completed, select "Support Pins" or "Occlusor" if any type of articulator is required

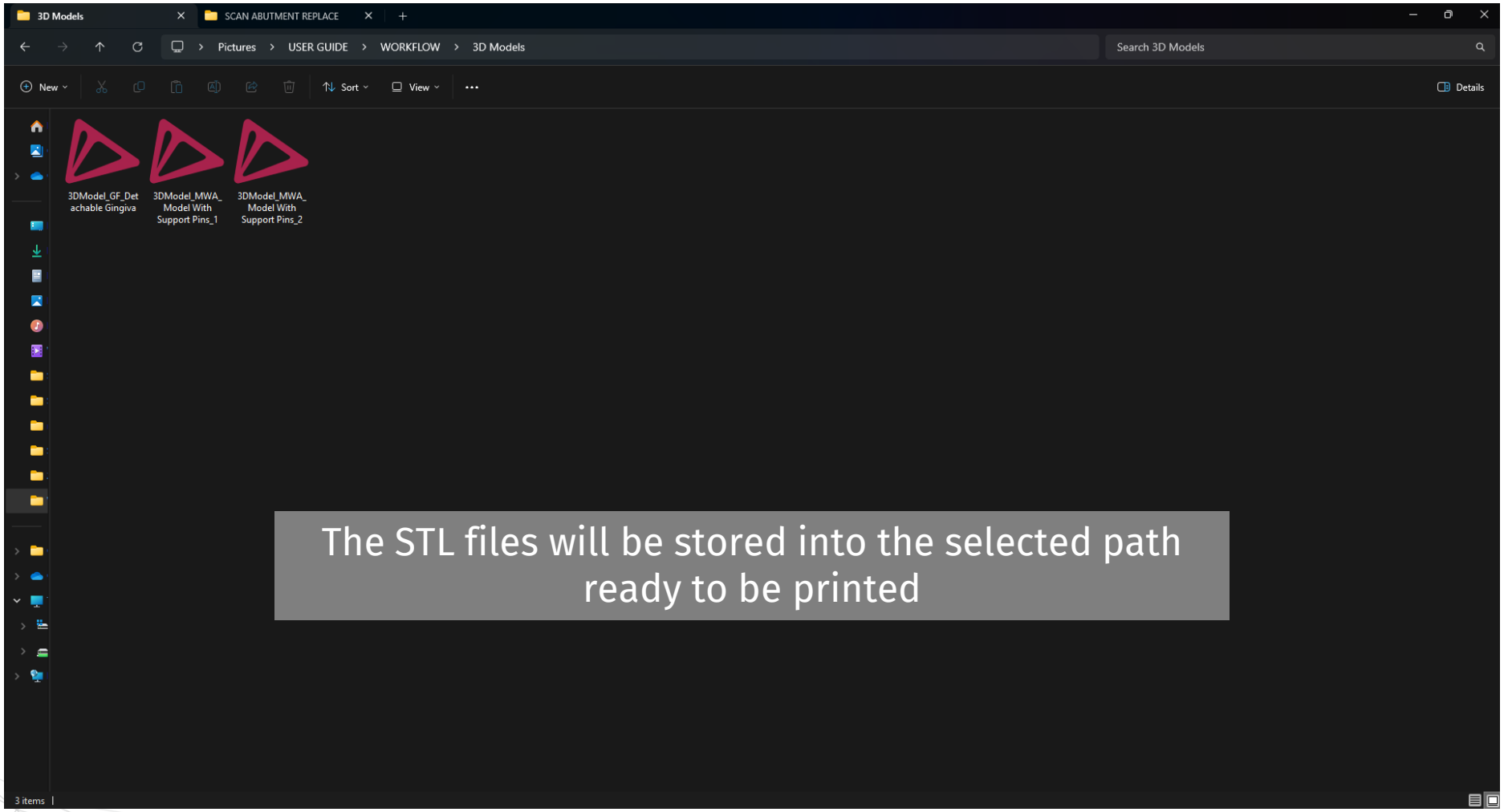
E.g. using “Support Pins” you can add occlusion pins simply by clicking into the model and modify the pin shape using these options.



Once the model has been successfully generated, select all the meshes you want to export 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

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