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ModelPro
Powered By IPD Dental Group

Stump Die 3D
User Guide

Dental Group

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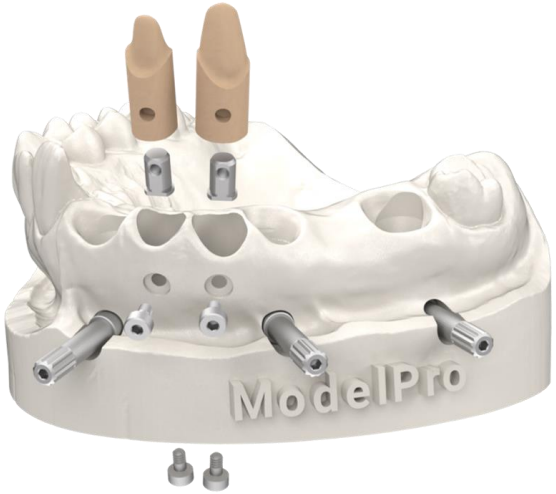

Introduction

Design tutorial

Interactive show

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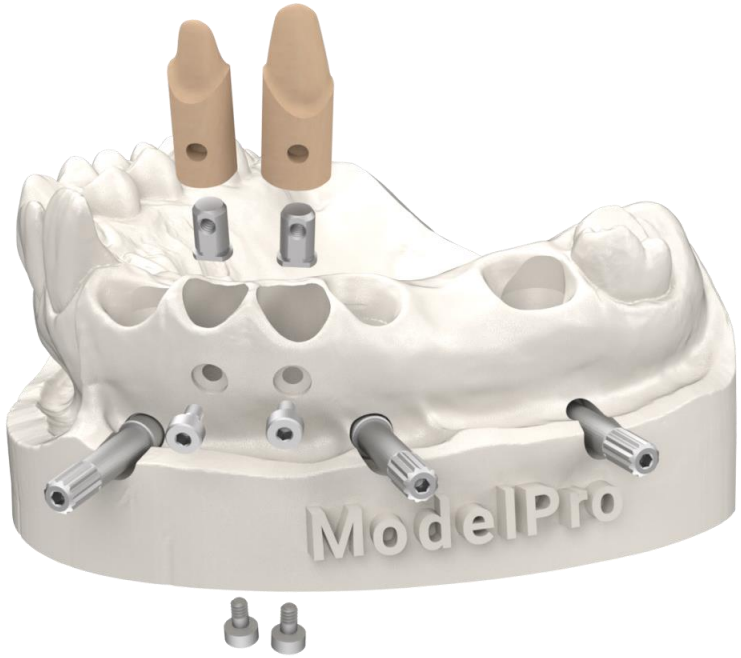
Stump Die 3D

Descubre el nuevo Stump Die 3D en ModelPro

- Exclusive fixation system for detachable dies
- Retentive body for the die, to be placed in the best position in each case
- Double fixation to secure the position into the 3D model (same as 3D analog)
- Different library options depending on the model wall thickness

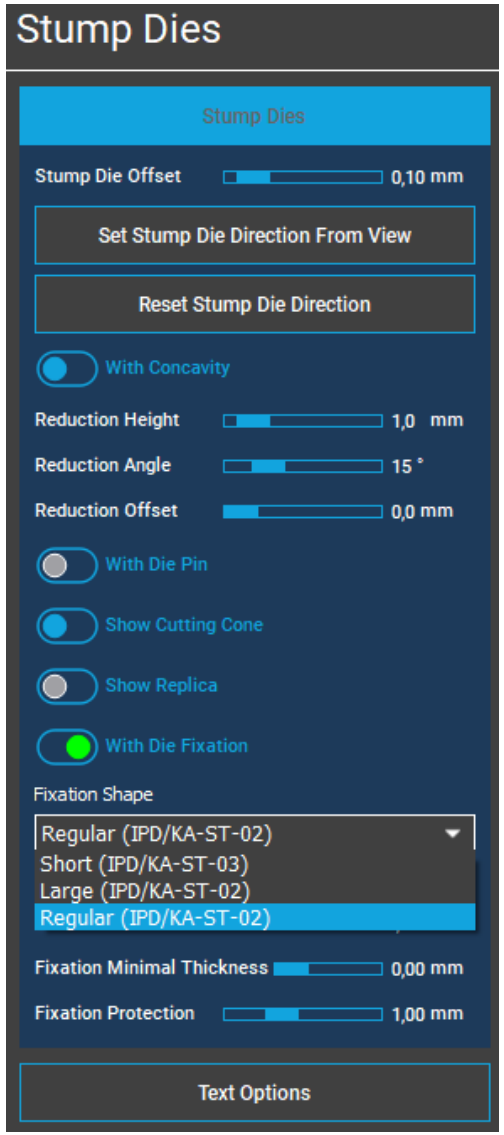


Stump Die 3D

Library options

Depending on the model wall thickness, there are 3 library options to design the detachable die fixation: “short”, “regular” and “large”.

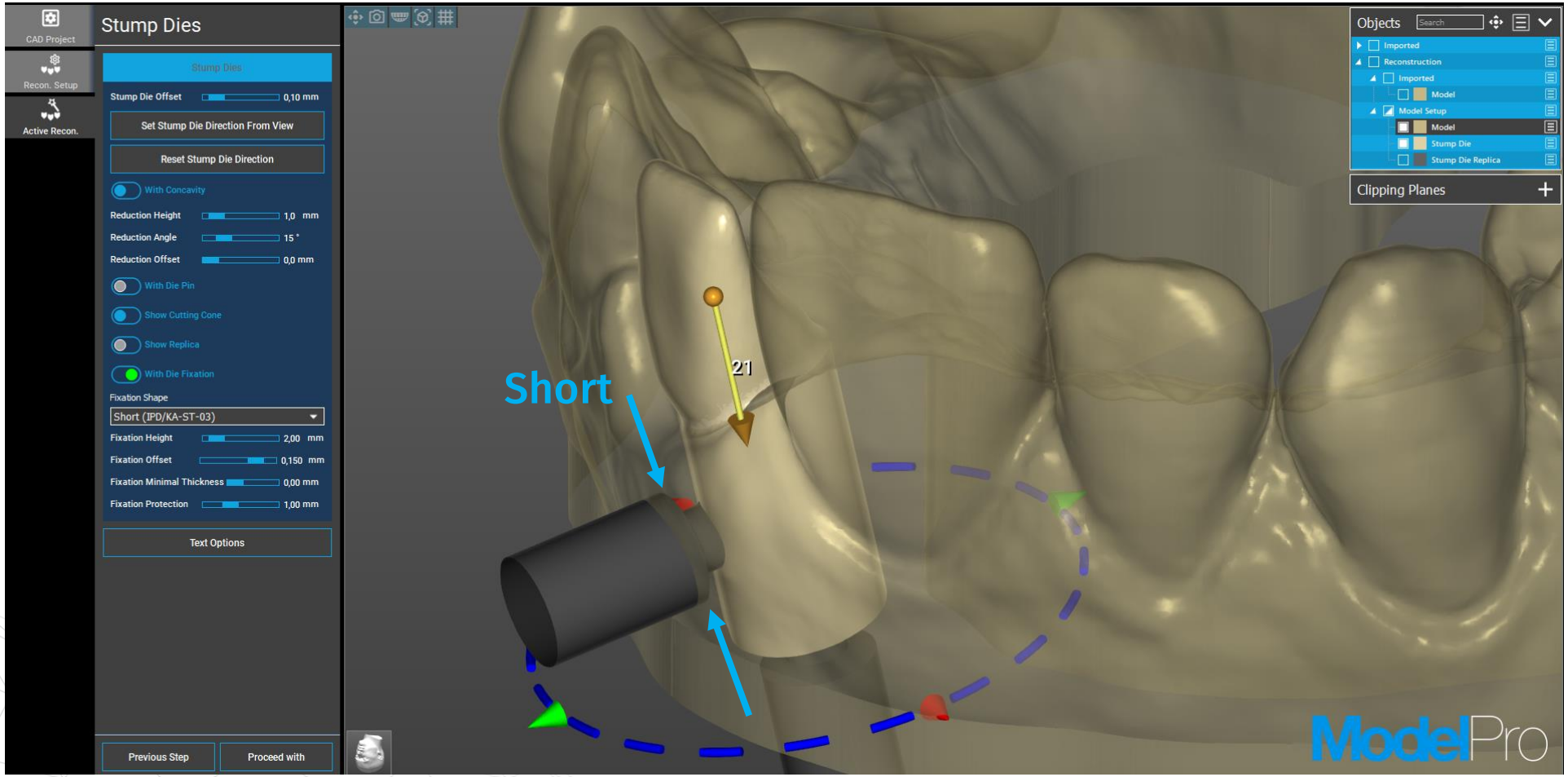
Each option has a different channel length for the side screw fixation, which generate the necessary thickness and support on the model wall, preventing it from breaking when screwing the side fixation.



Stump Die 3D

Library options

Each library has a limit in the STL, which marks the minimum wall thickness required to place the Stump Die 3D.



Stump Die 3D

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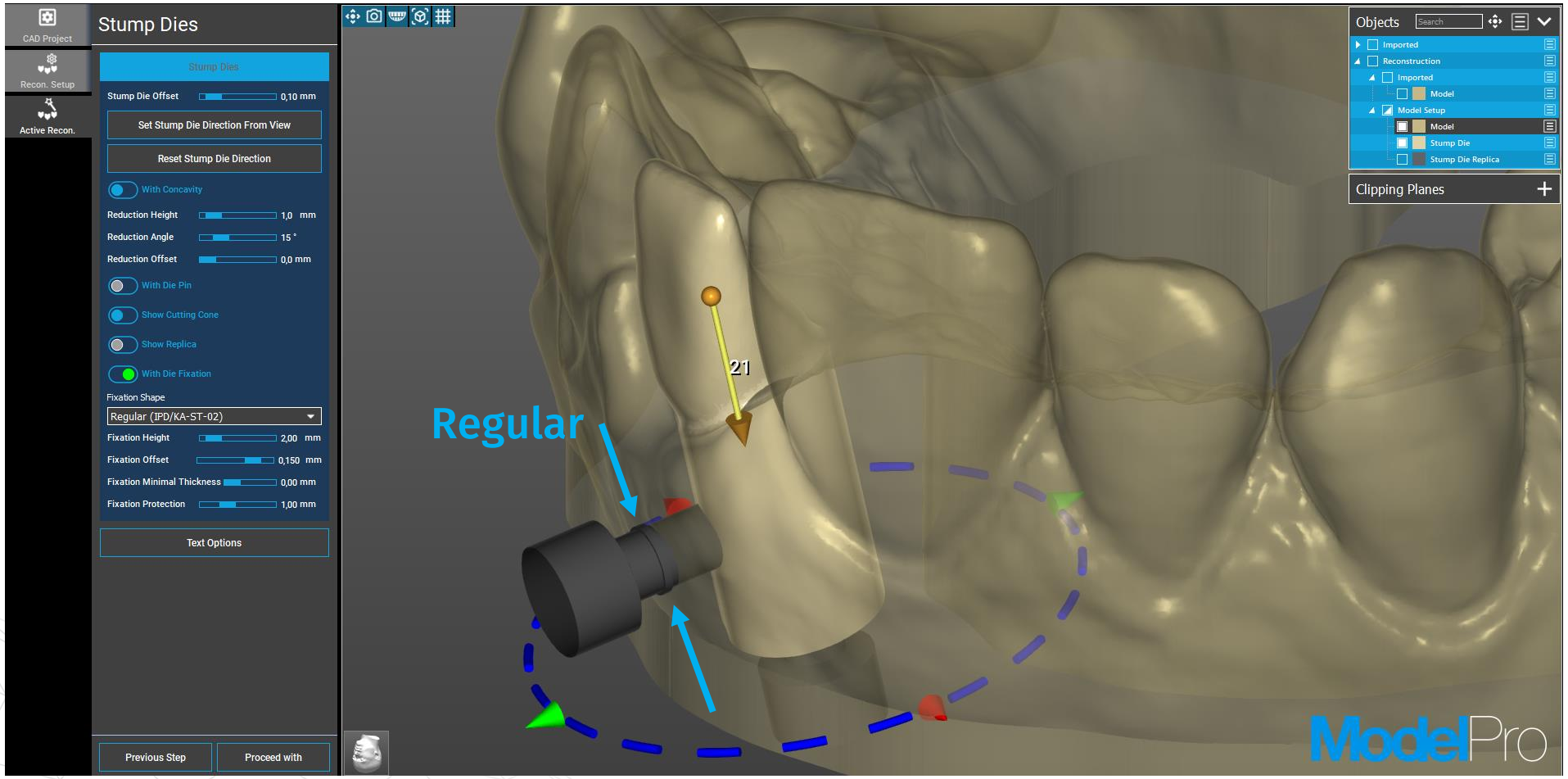

Stump Die 3D

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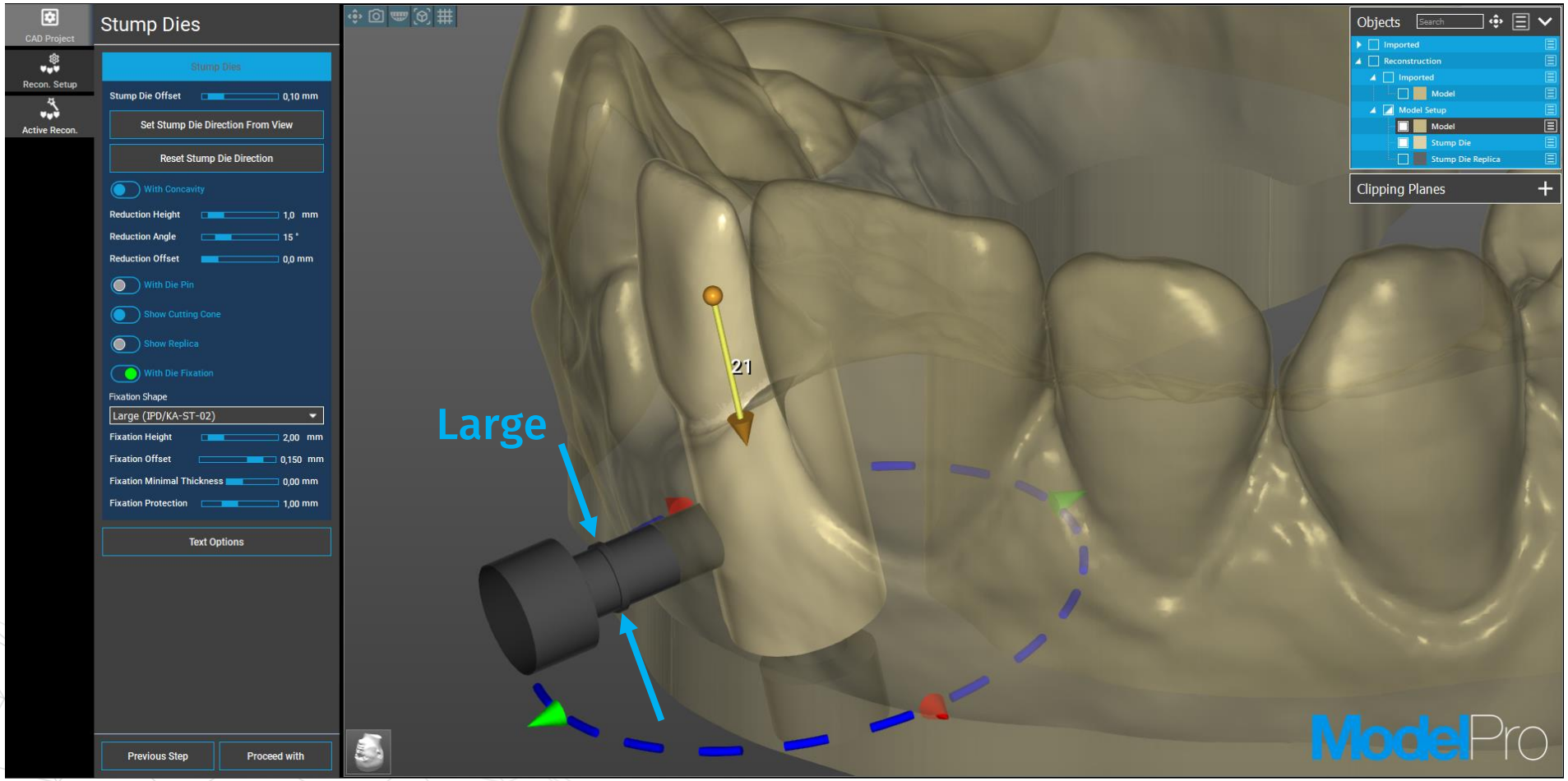
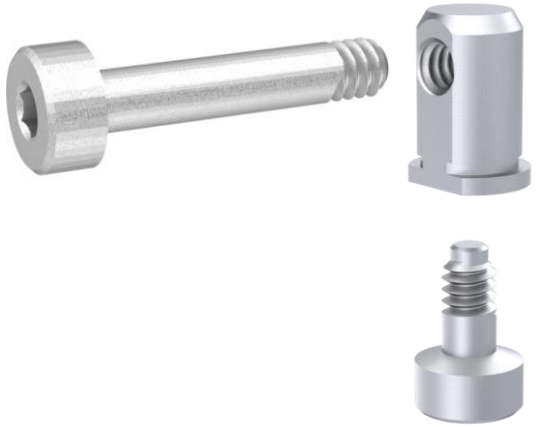


Stump Die 3D

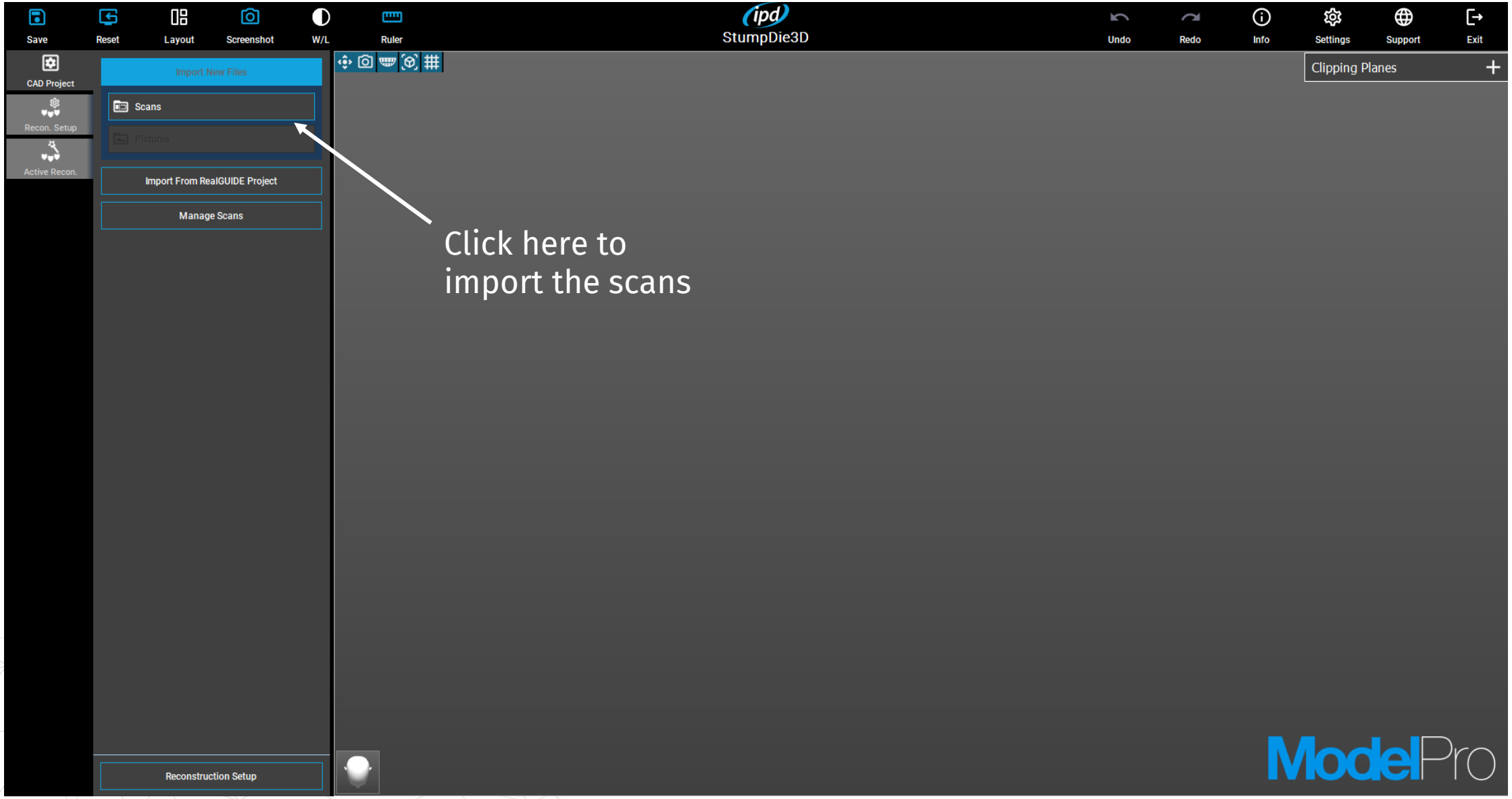
Different model wall thickness

- **Short (IPD/KA-ST-03):** for thin wall models, using the same bottom screw for the side and bottom fixation.
- **Regular (IPD/KA-ST-02):** for regular wall models, using the relevant bottom and side screws fixation.
- **Large (IPD/KA-ST-02):** for thicker wall models, using the relevant bottom and side screws fixation.

Short



Regular / Large



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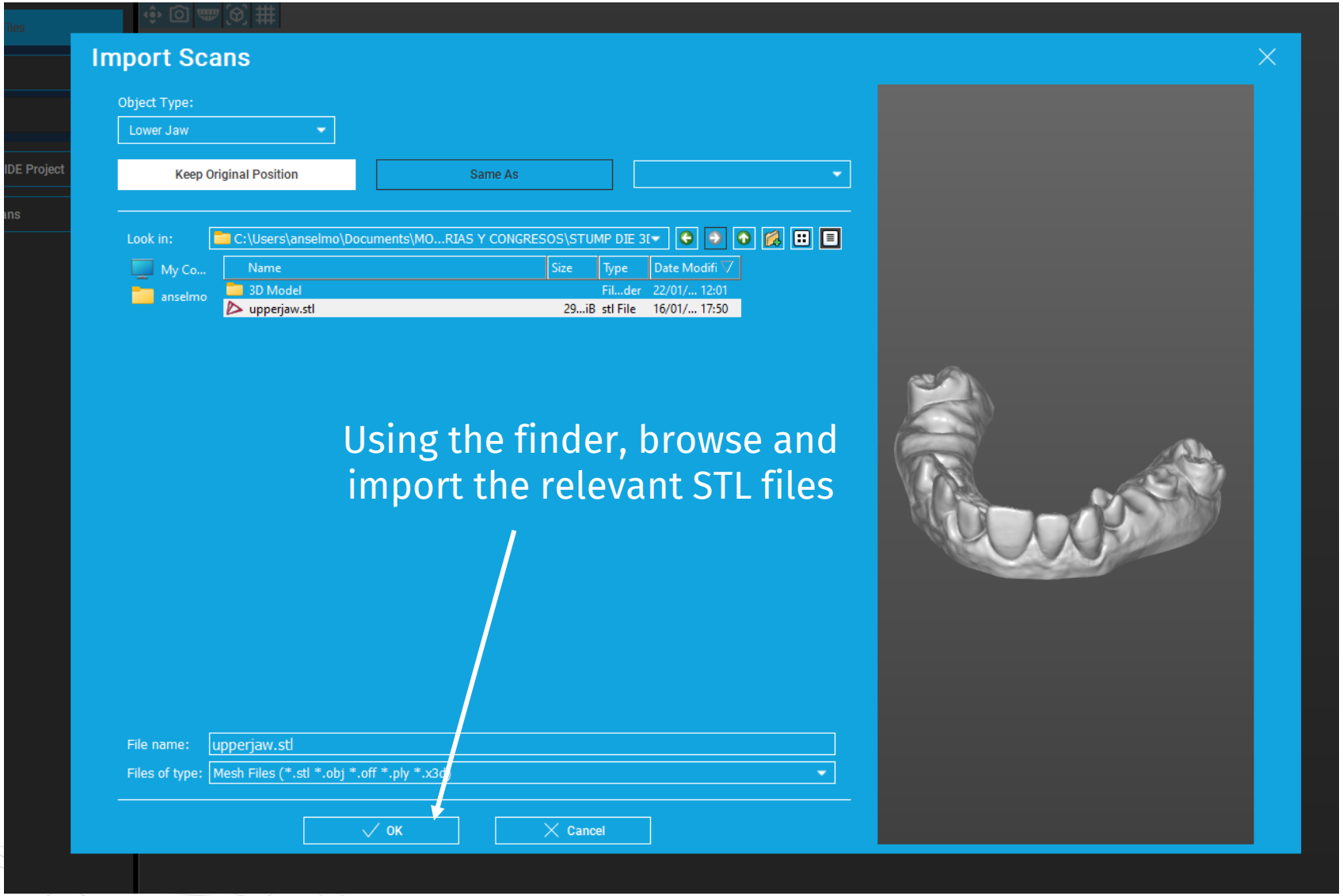

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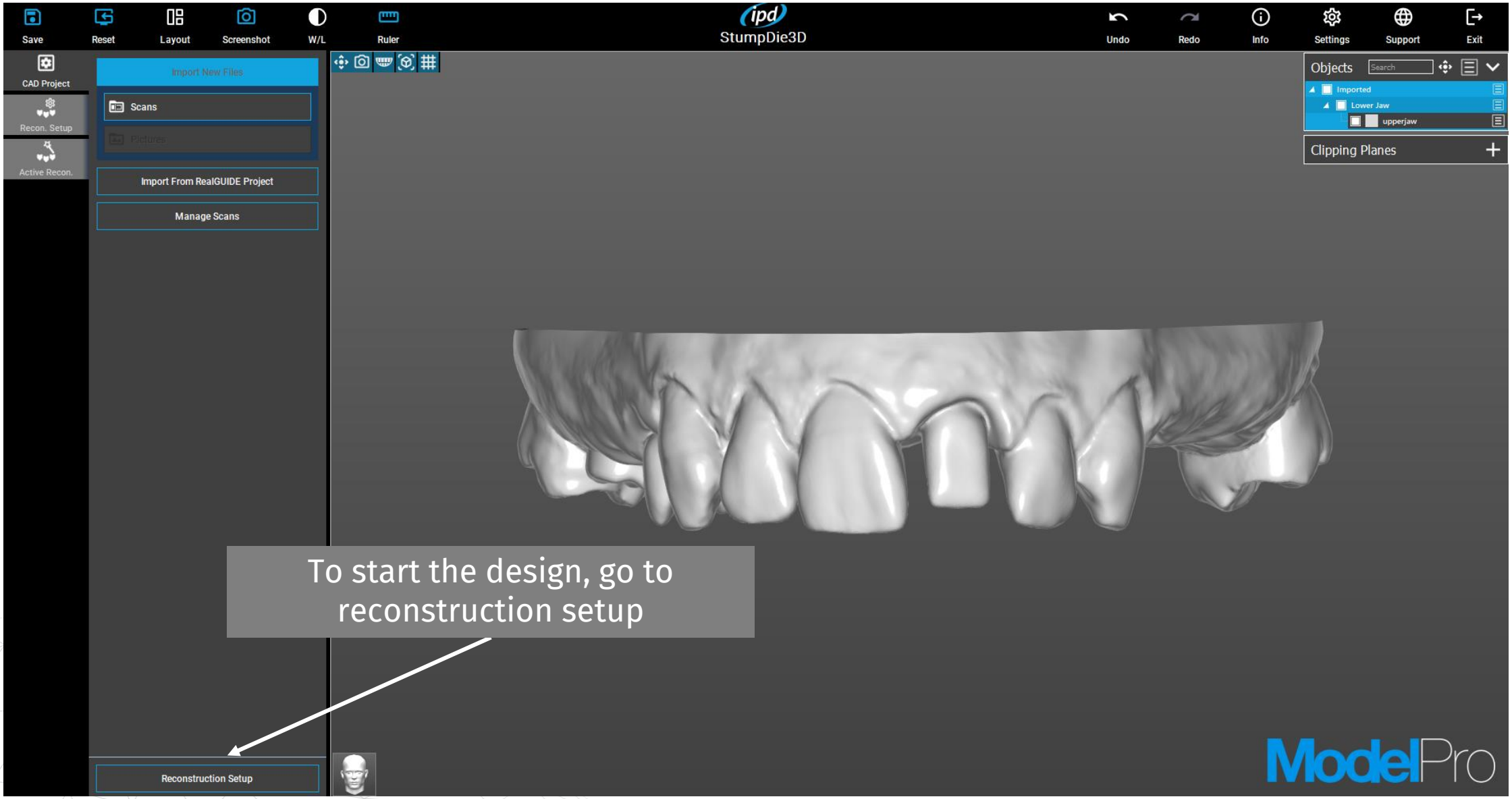

To start the design, go to reconstruction setup

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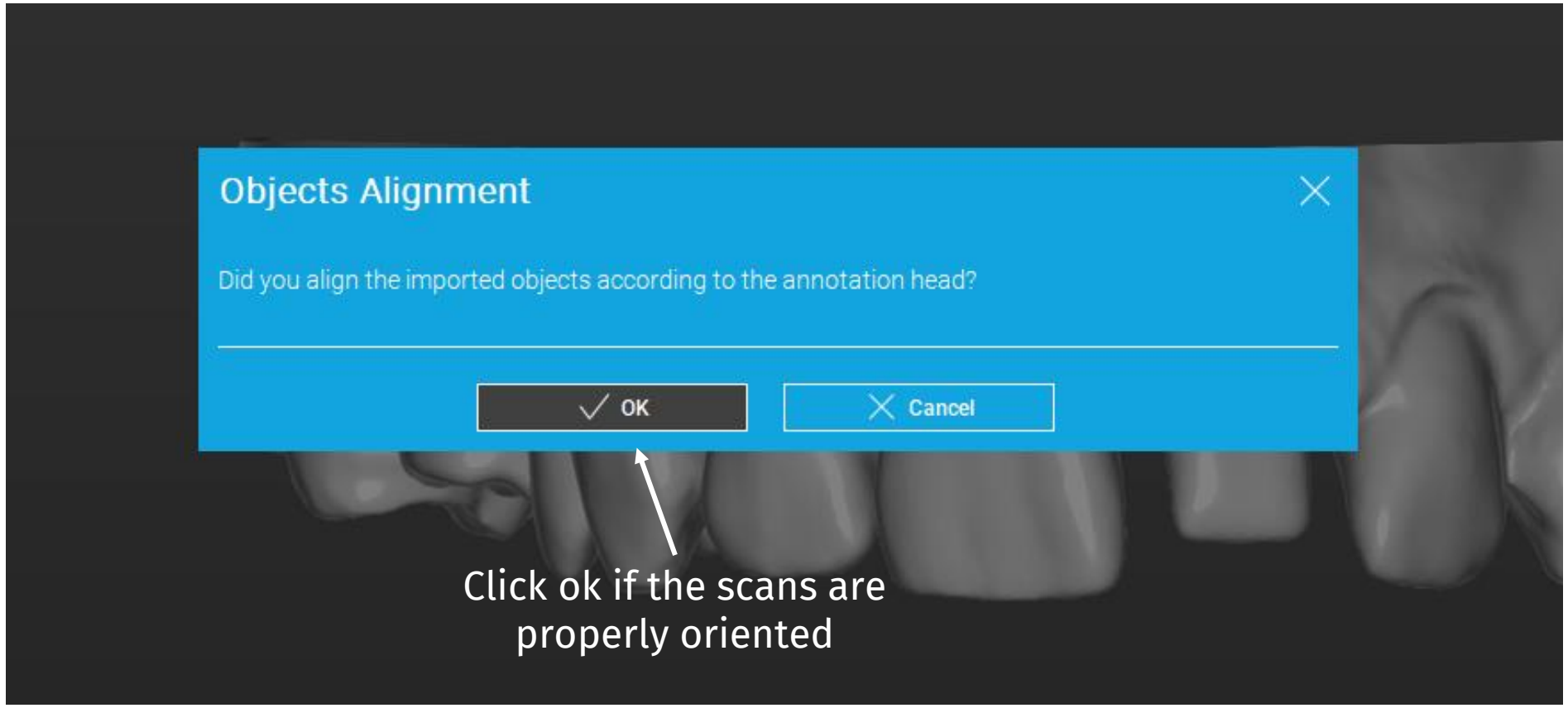

Click ok if the scans are properly oriented

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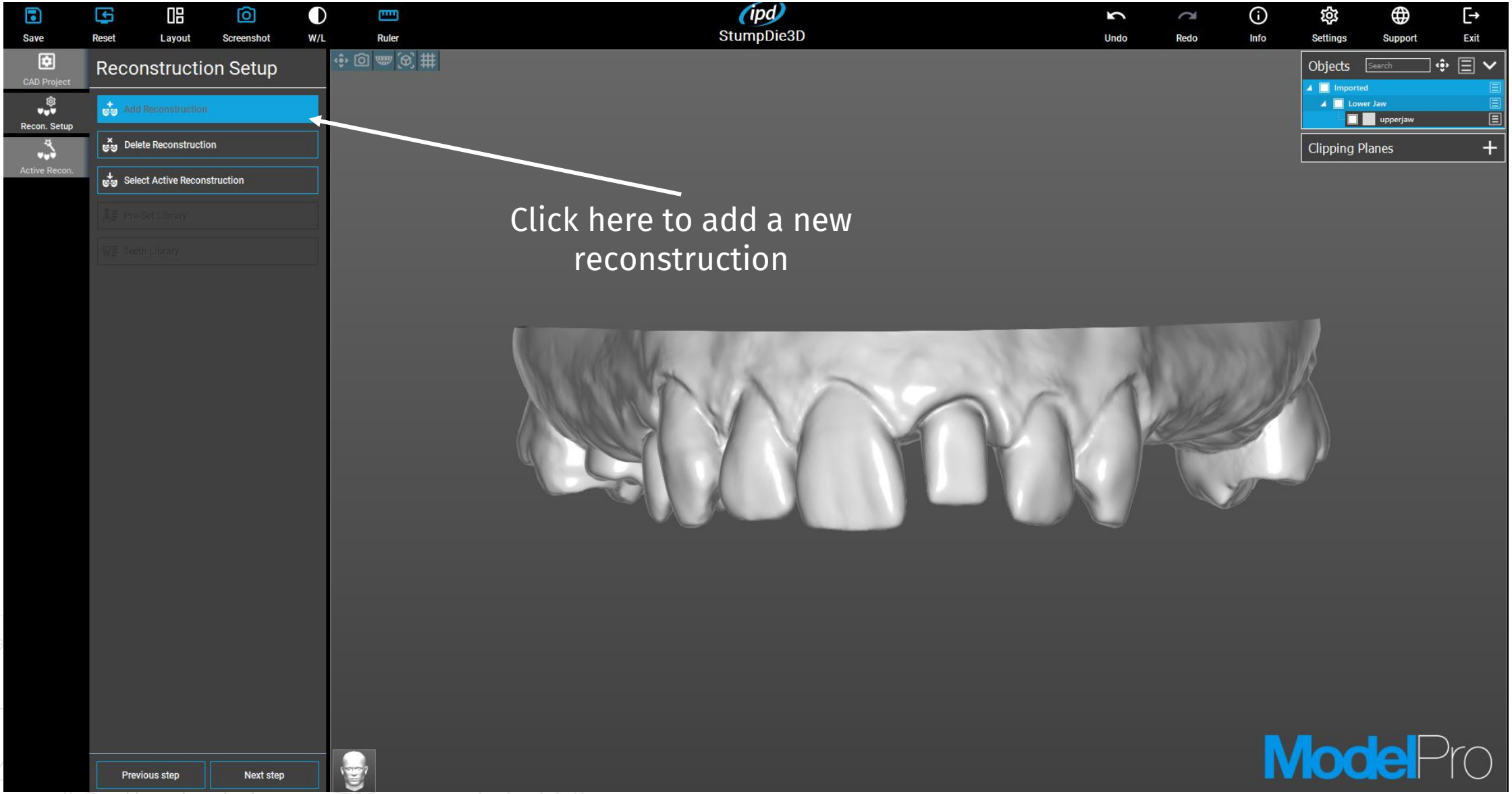

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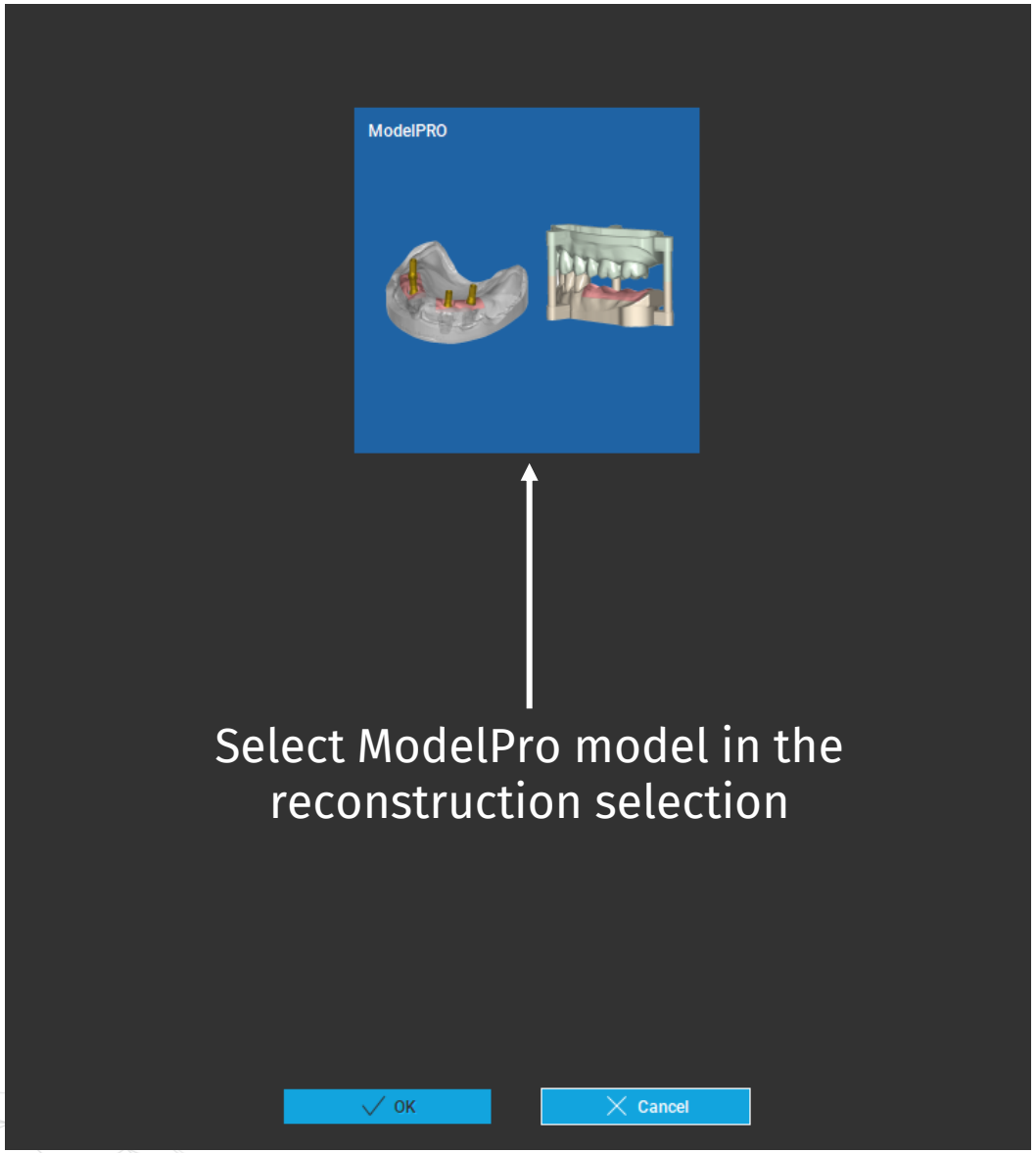

Select ModelPro model in the reconstruction selection

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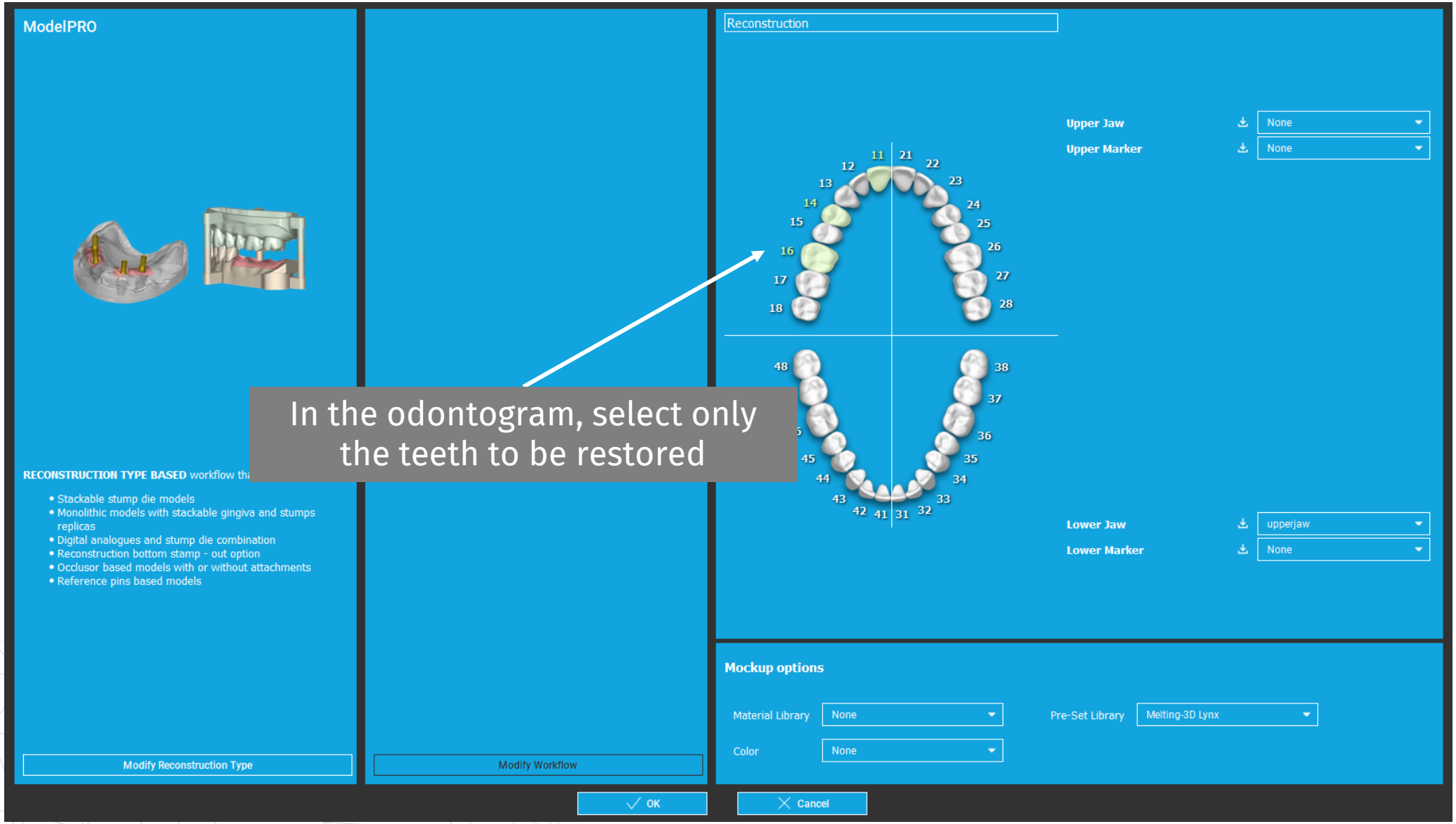

In the odontogram, select only the teeth to be restored

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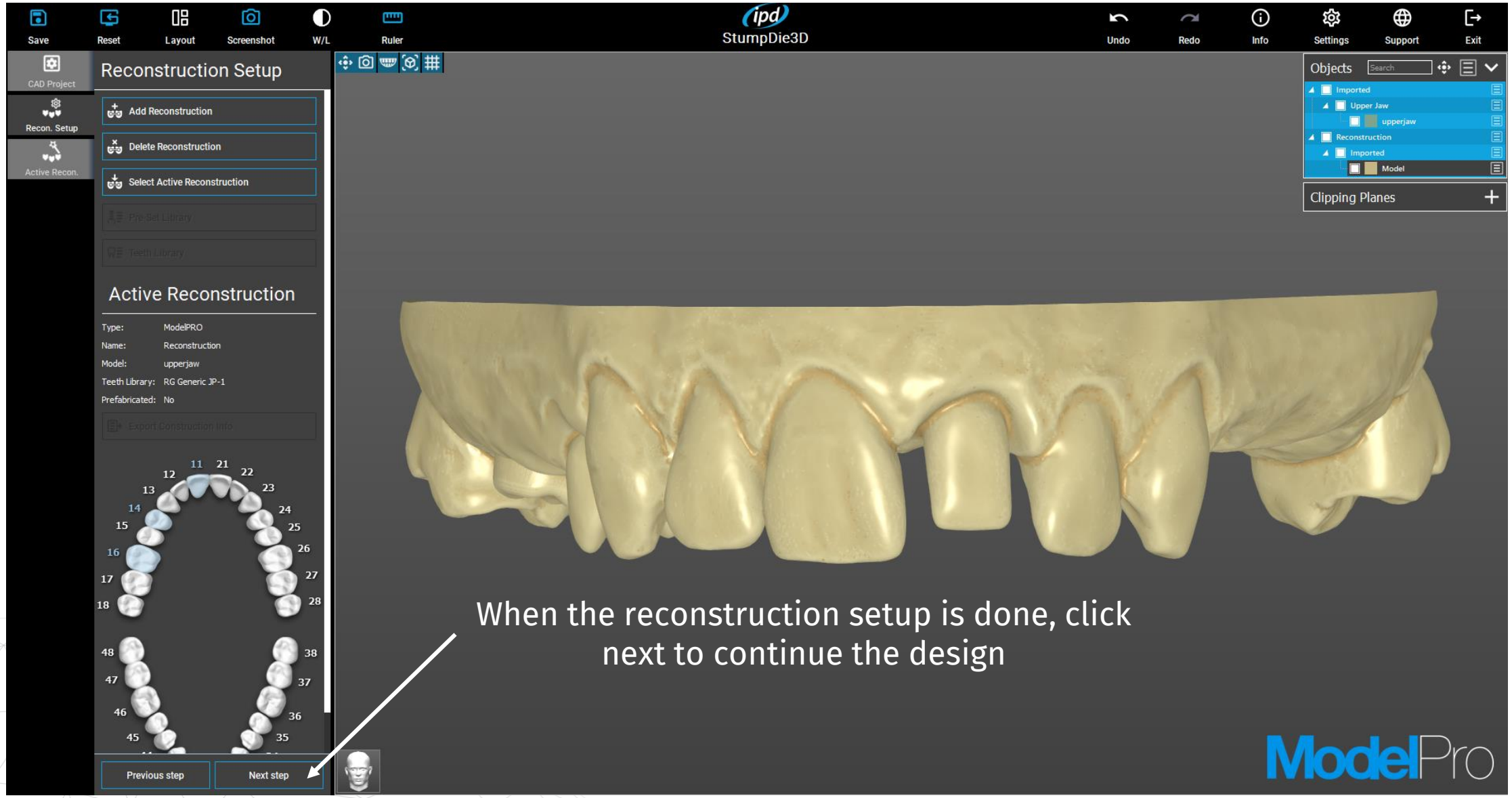

When the reconstruction setup is done, click next to continue the design

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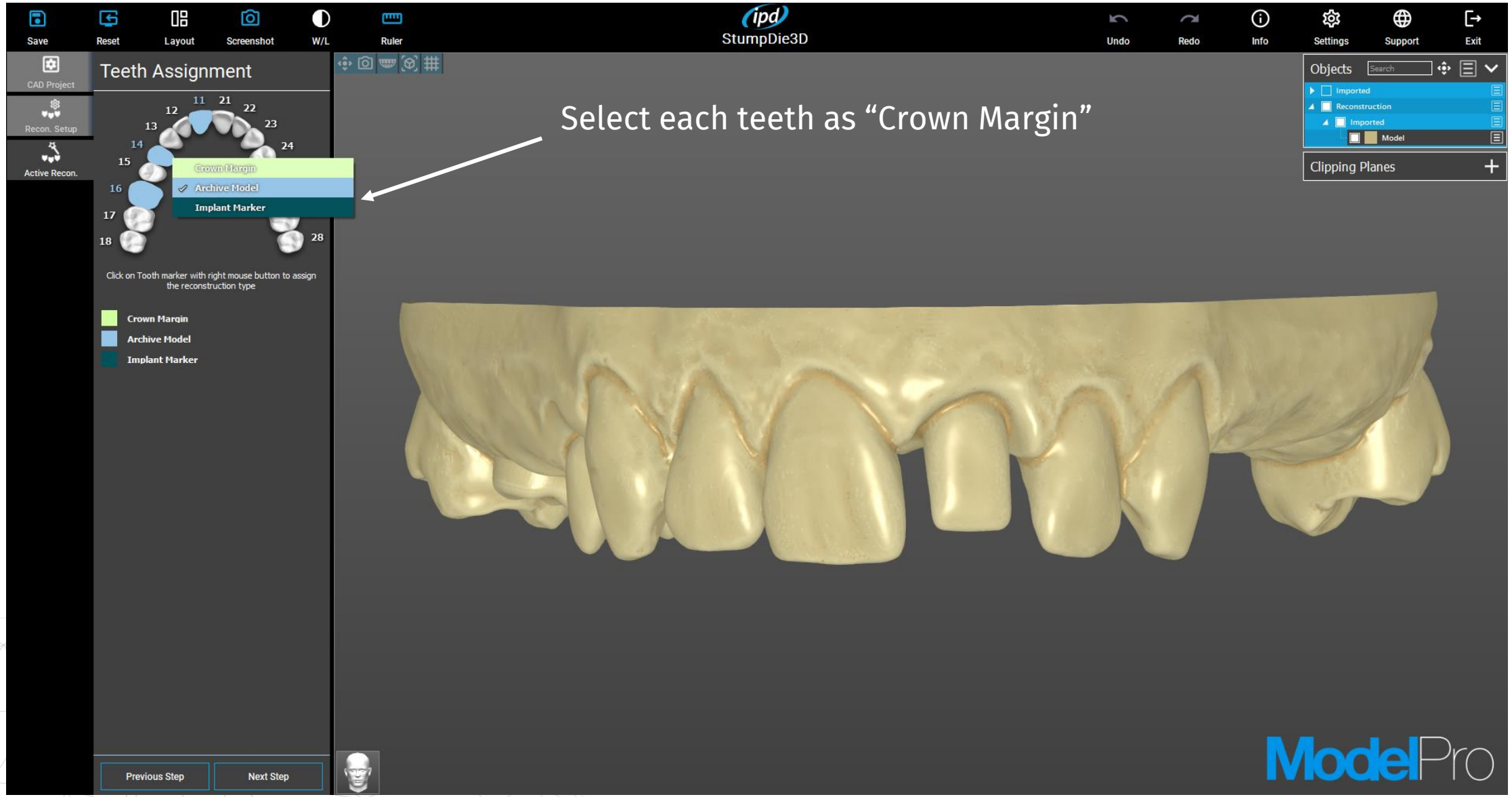

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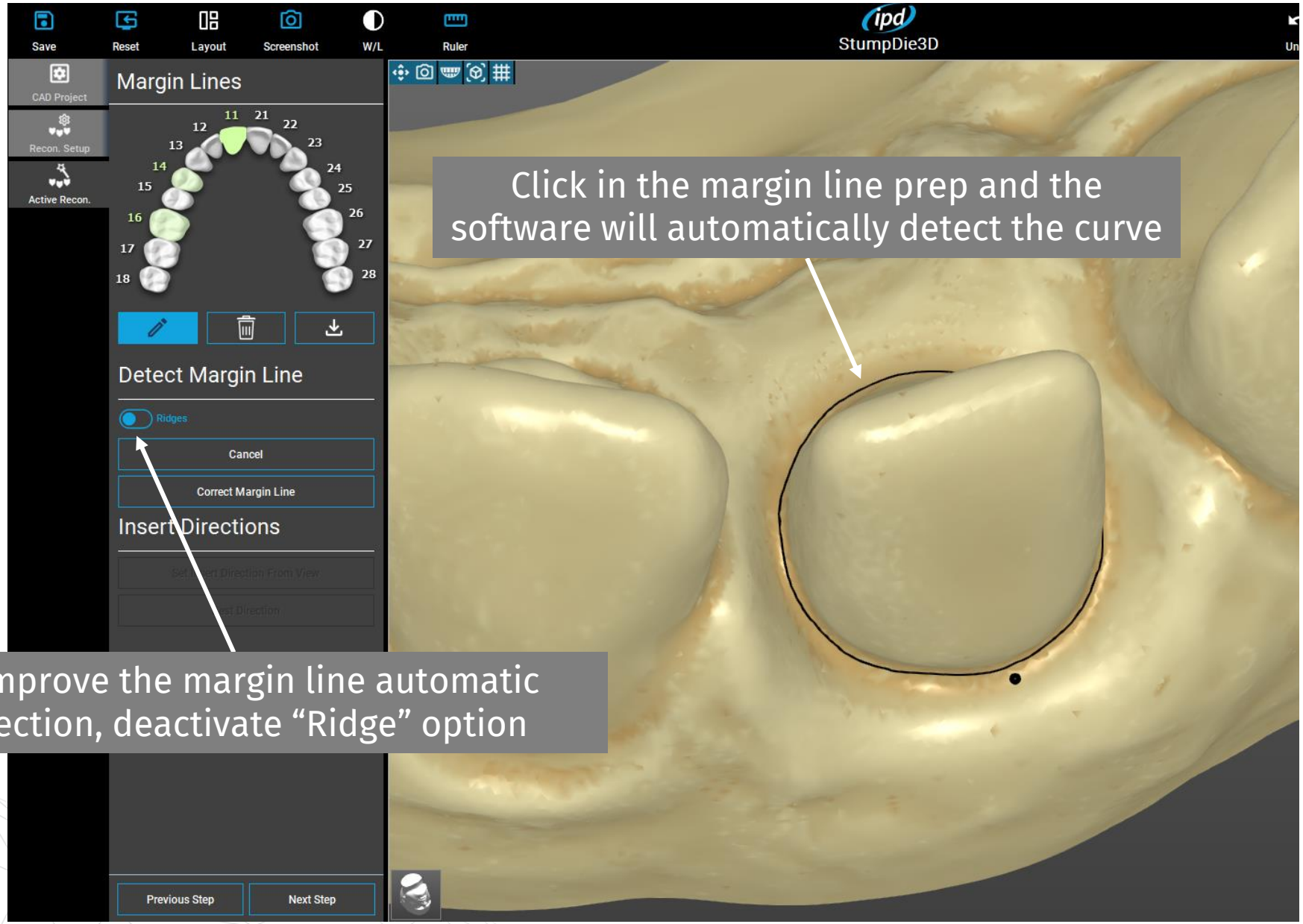

Click in the margin line prep and the software will automatically detect the curve

To improve the margin line automatic detection, deactivate “Ridge” option

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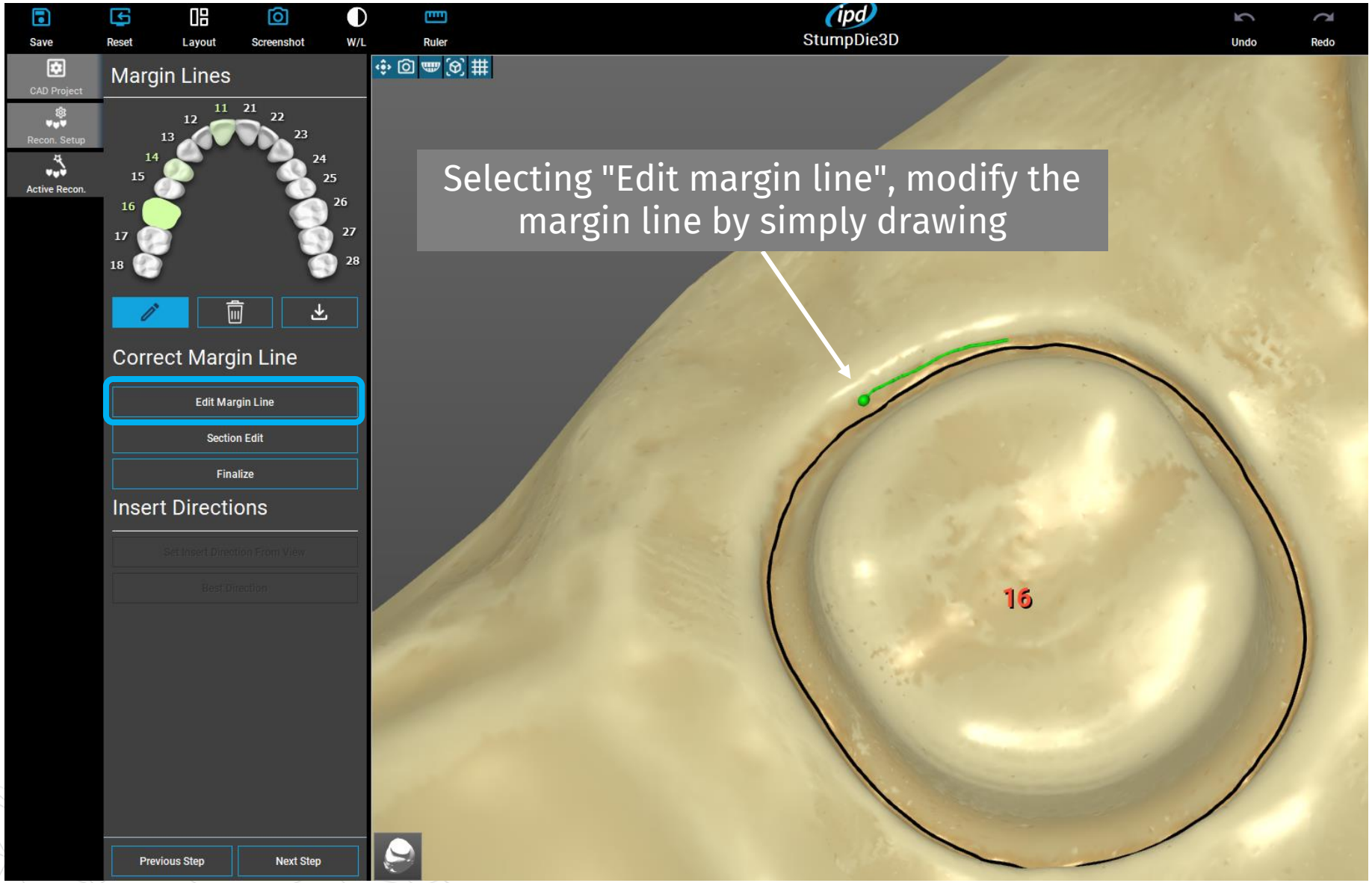

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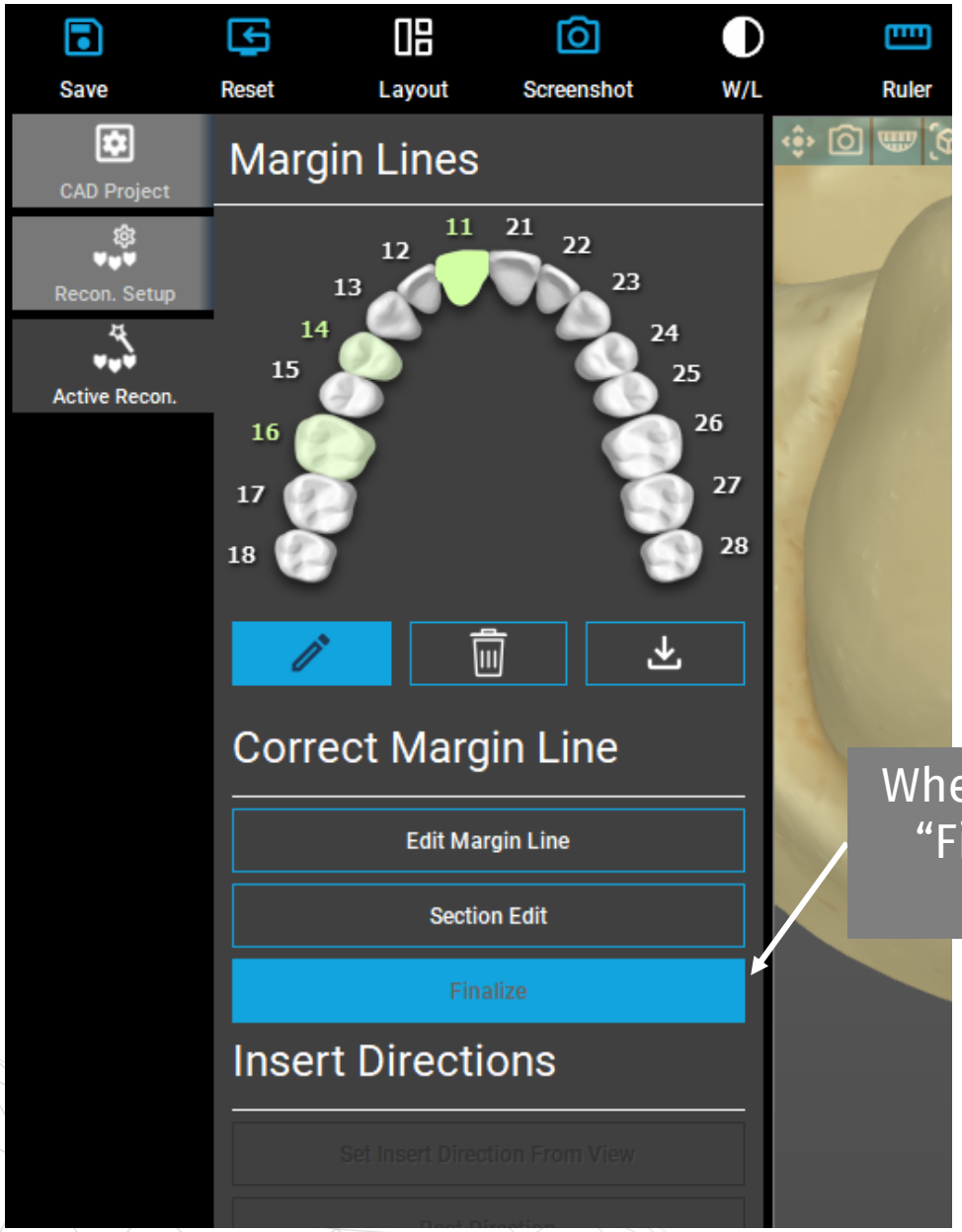

When all margin lines are defined, click “Finalize” to apply the selection and continue the design

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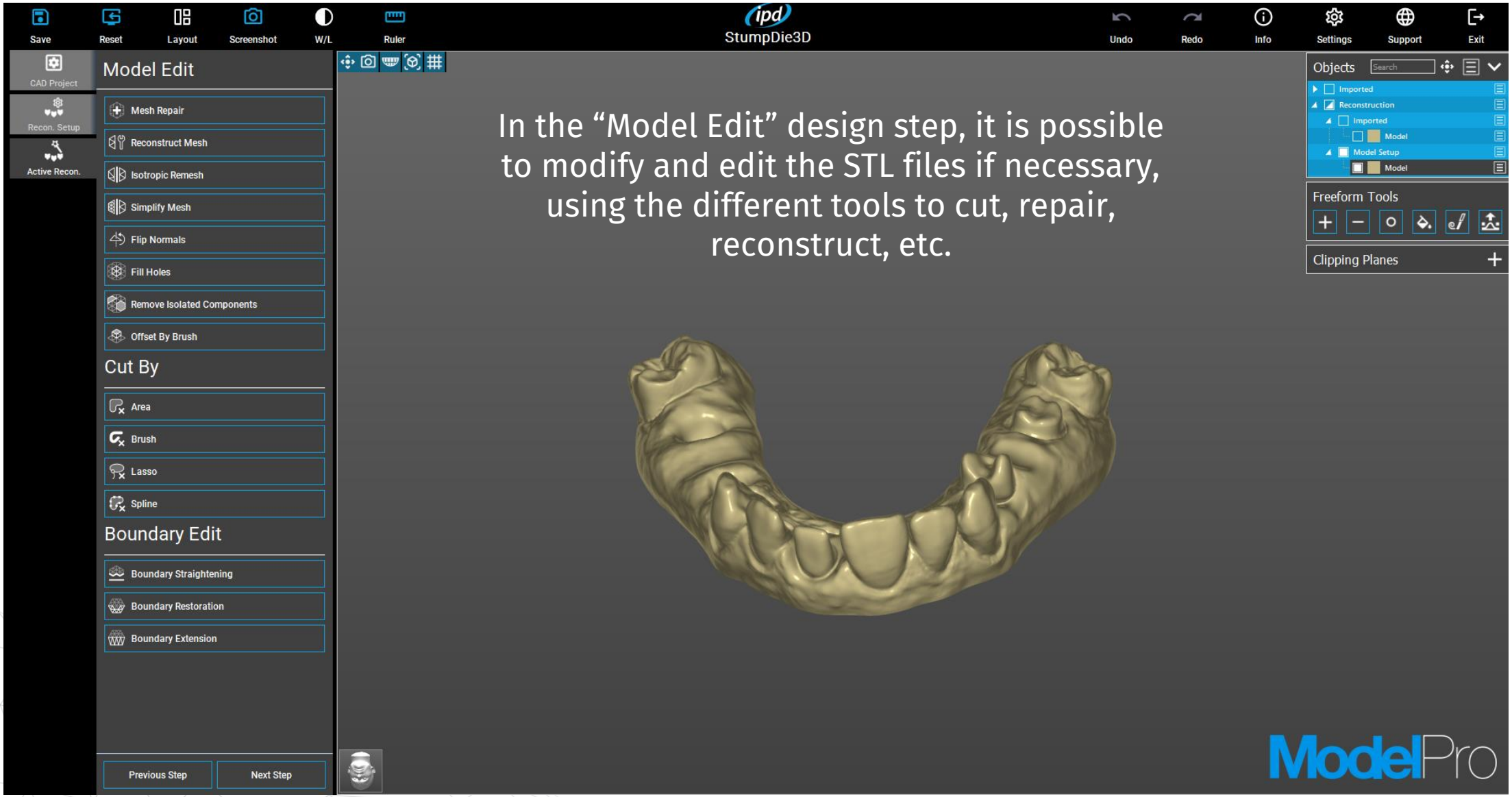

In the “Model Edit” design step, it is possible to modify and edit the STL files if necessary, using the different tools to cut, repair, reconstruct, etc.

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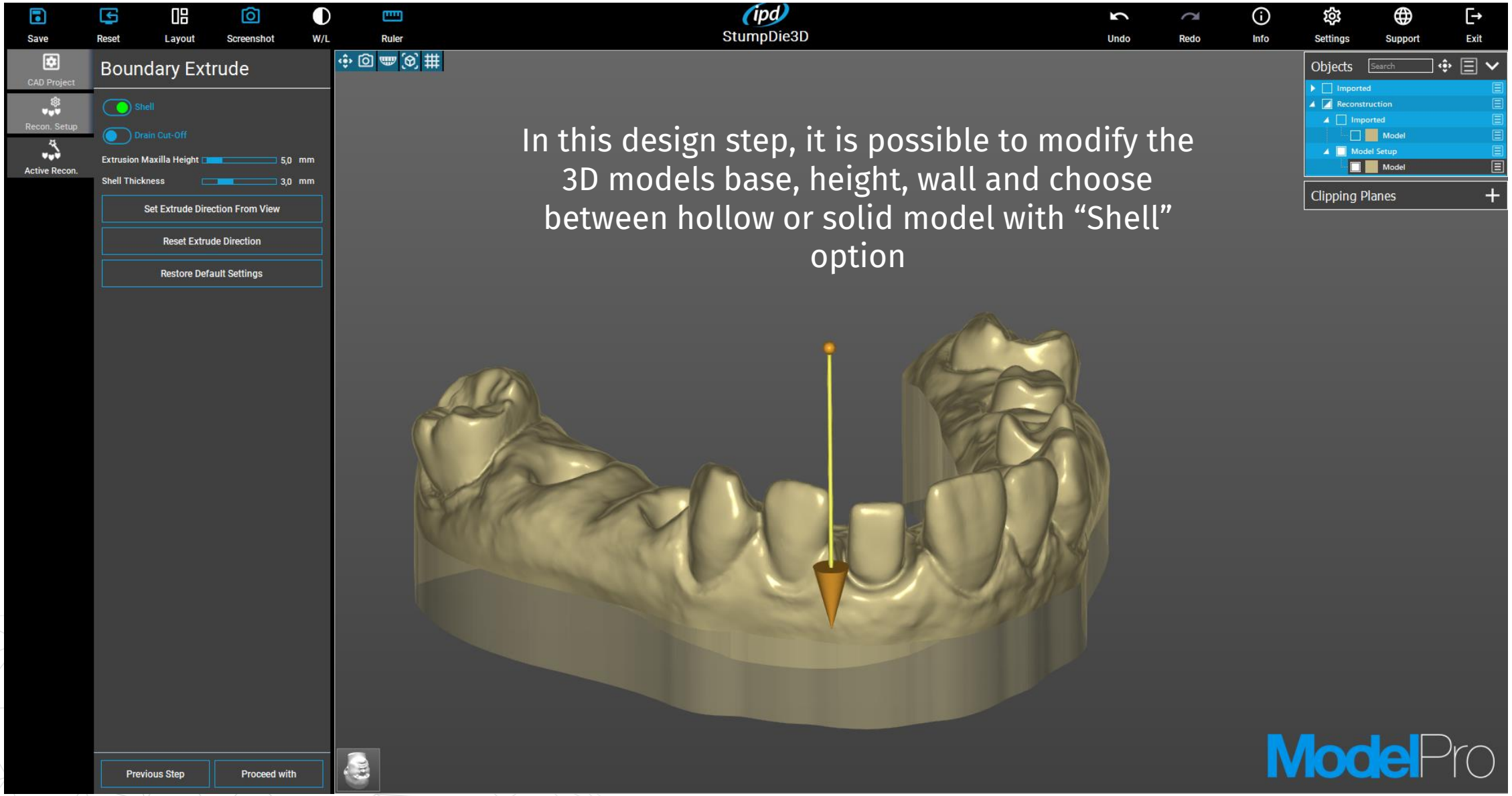

In this design step, it is possible to modify the 3D models base, height, wall and choose between hollow or solid model with “Shell” option

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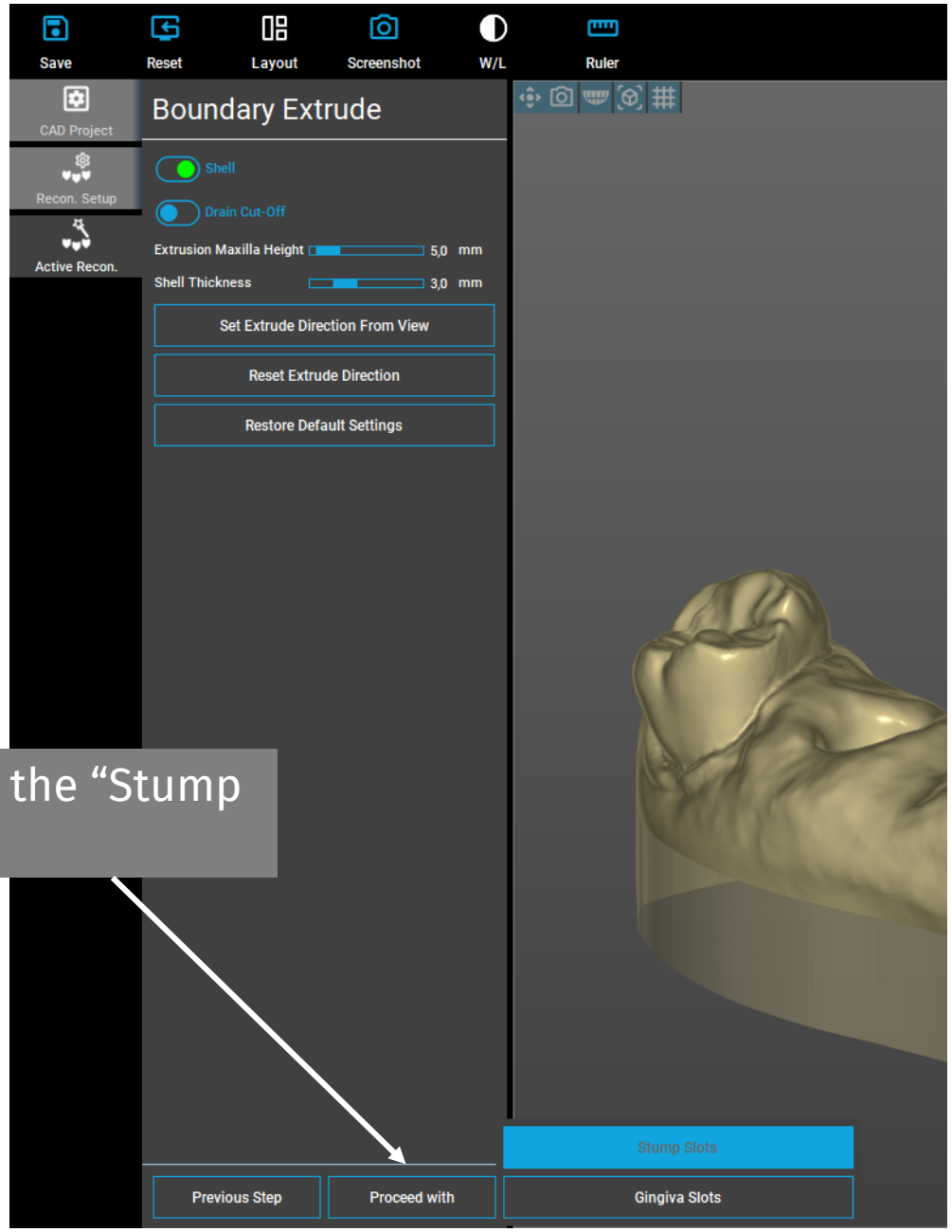
Click here and proceed with the “Stump Slots” design



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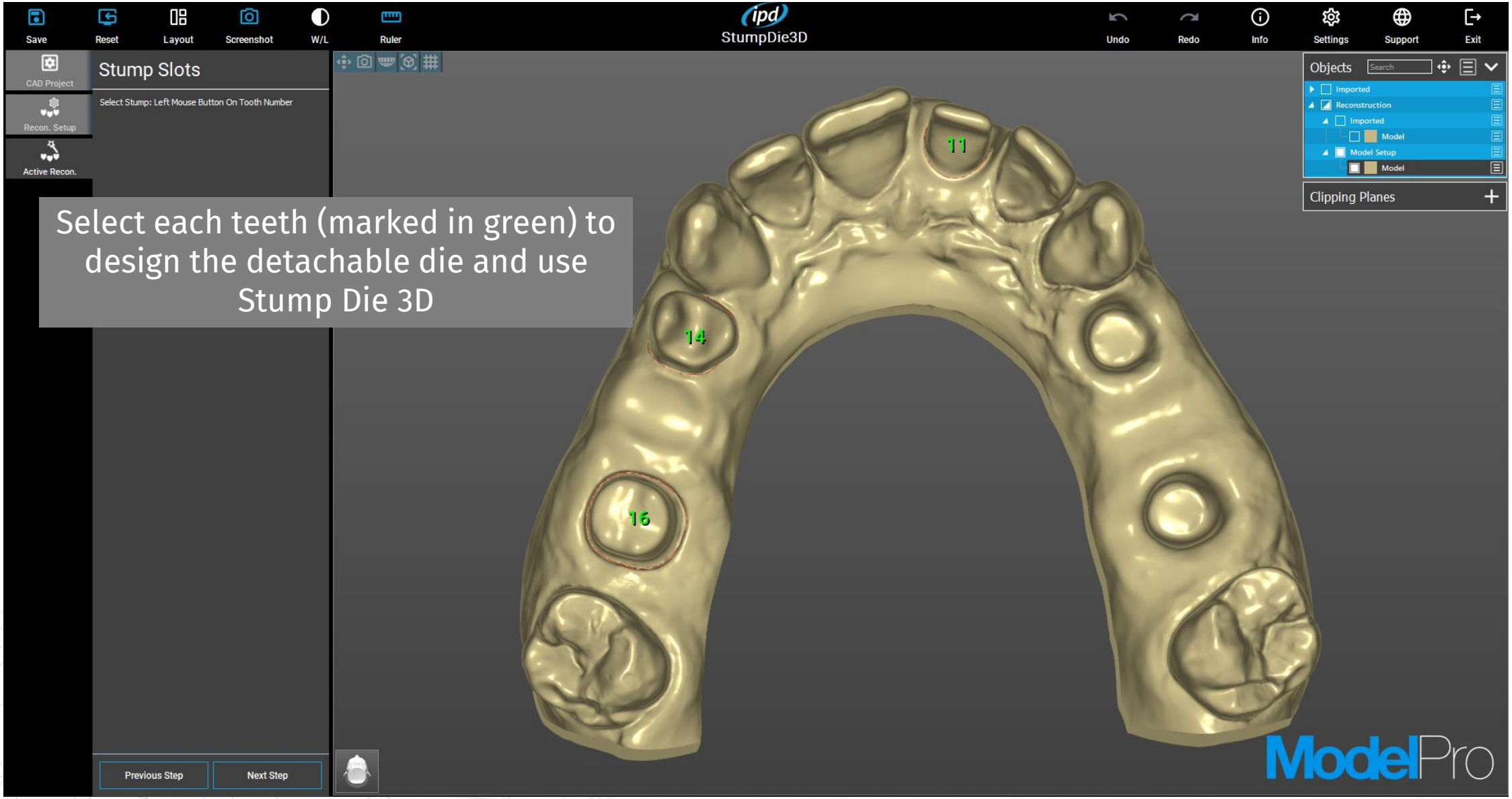

Select each teeth (marked in green) to design the detachable die and use Stump Die 3D

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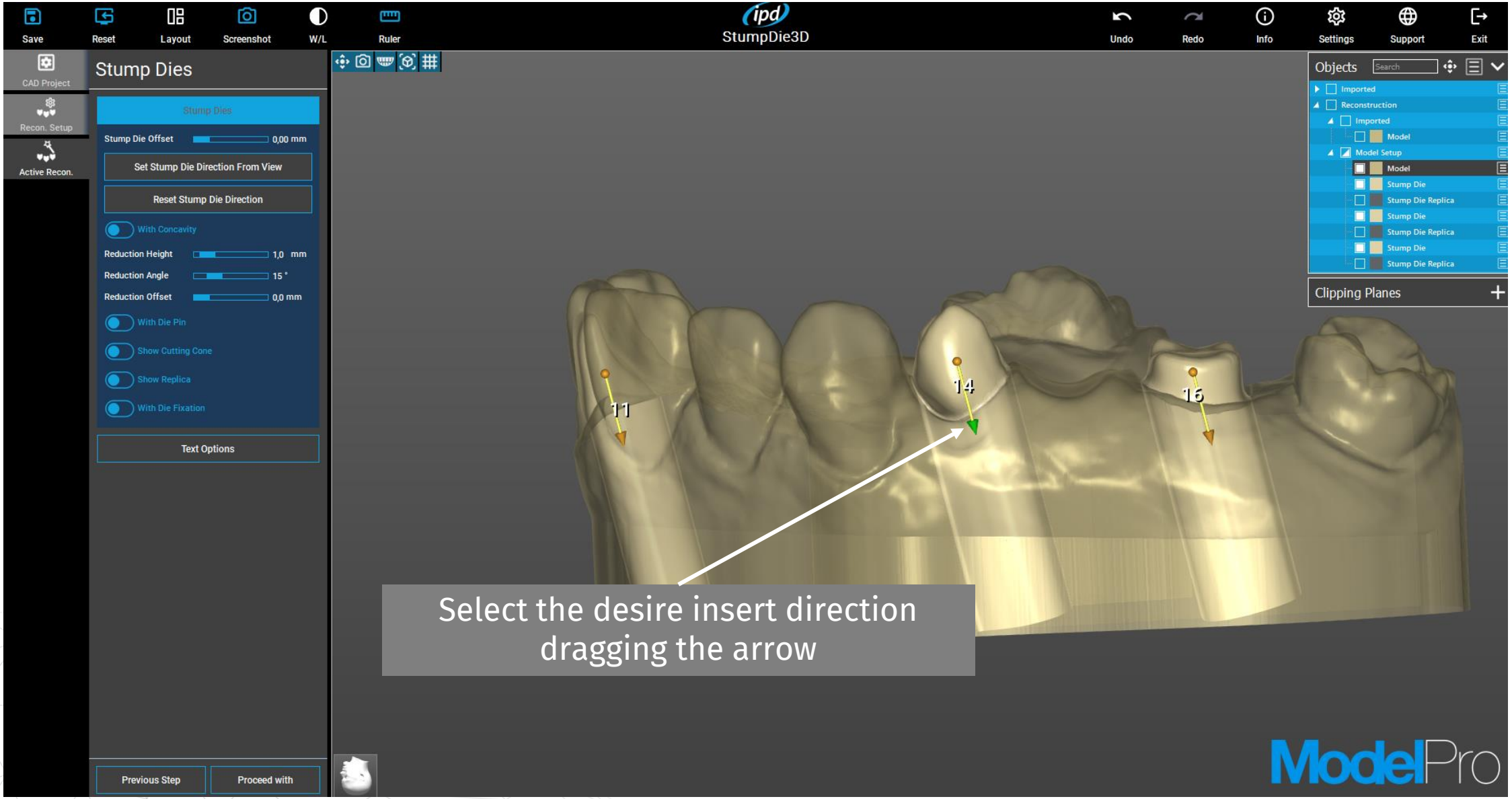

Select the desire insert direction dragging the arrow

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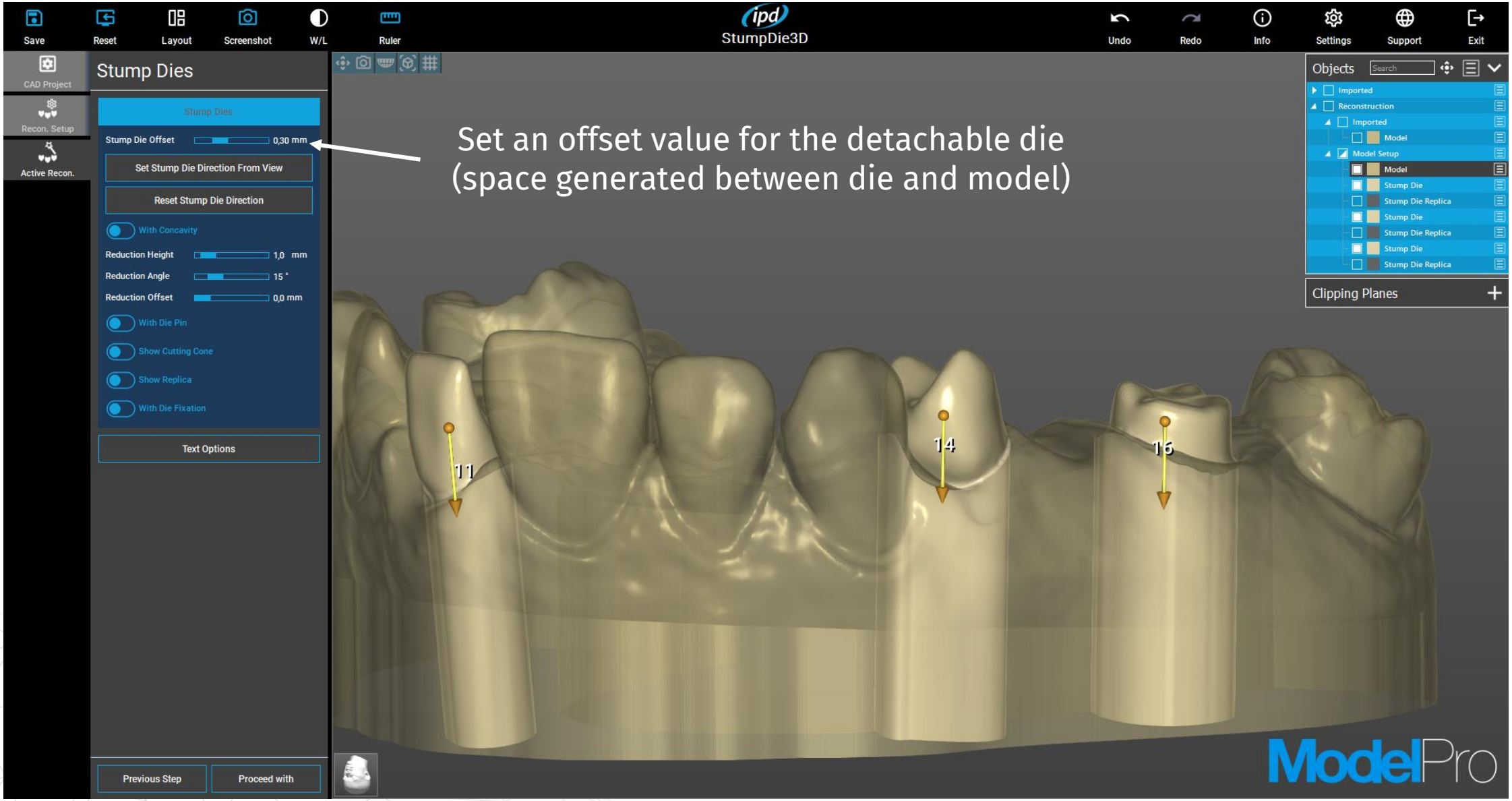

Set an offset value for the detachable die
(space generated between die and model)

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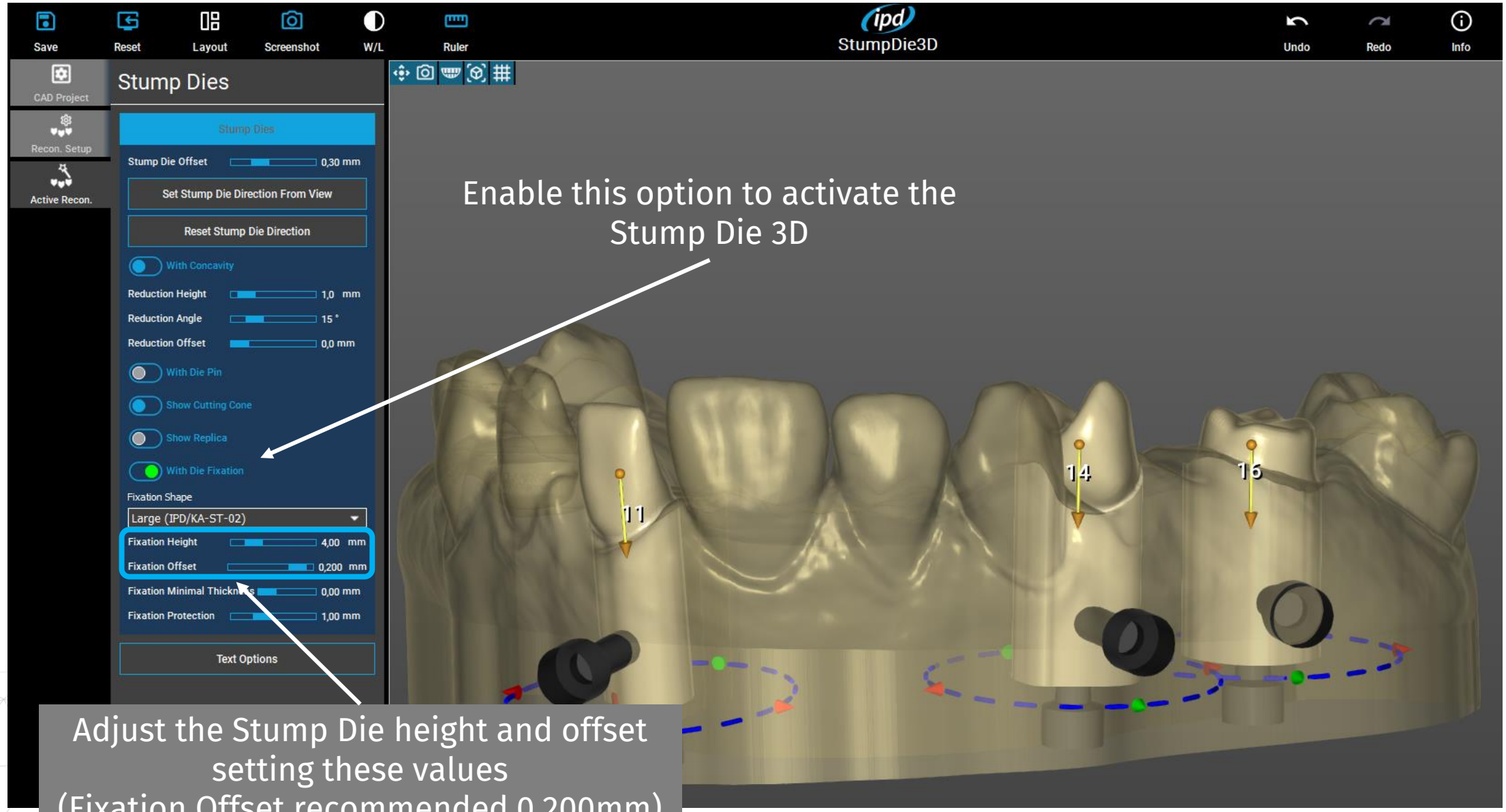

Enable this option to activate the Stump Die 3D

Adjust the Stump Die height and offset setting these values
(Fixation Offset recommended 0,200mm)

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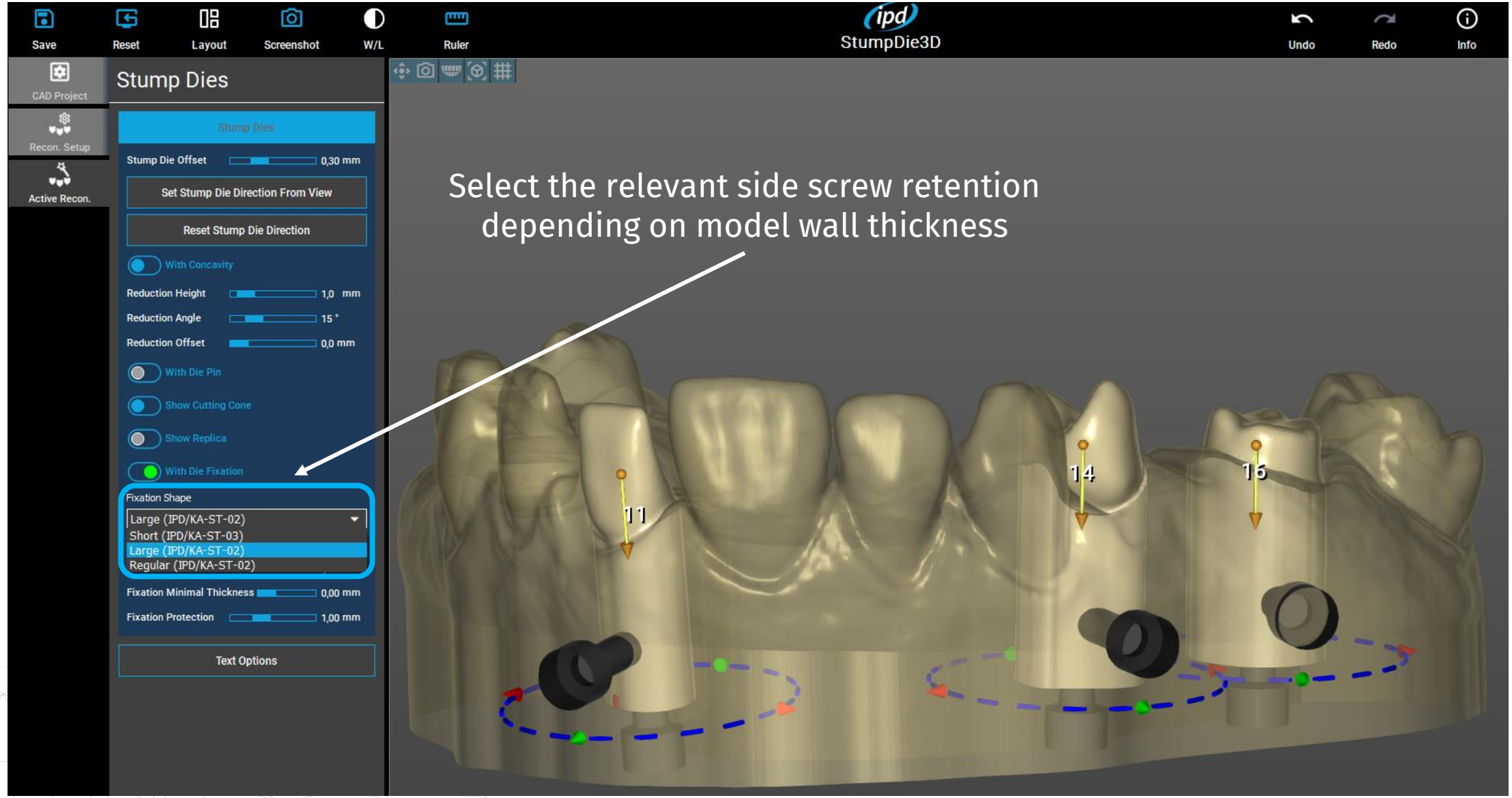

Select the relevant side screw retention depending on model wall thickness

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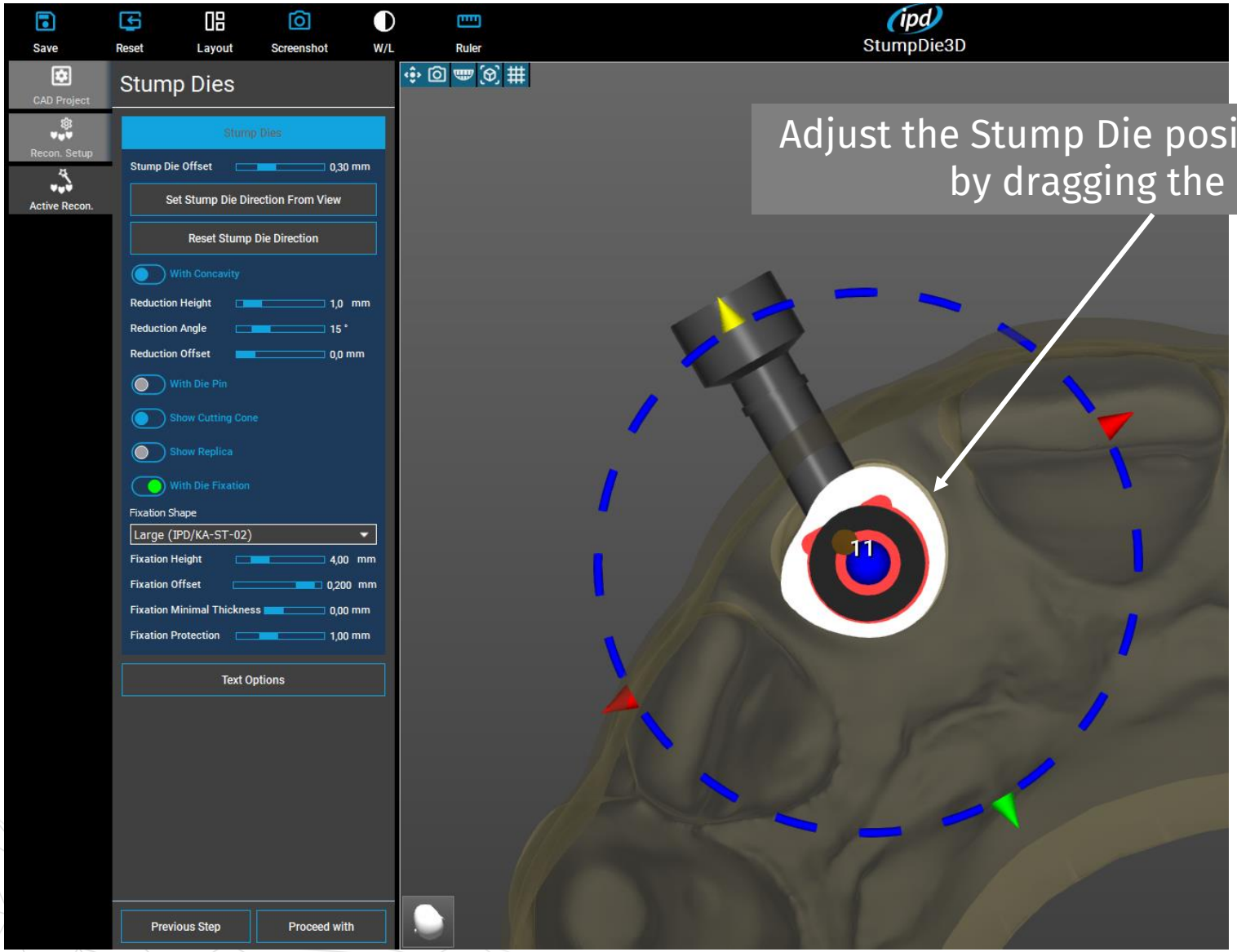

Adjust the Stump Die position into the die by dragging the arrows

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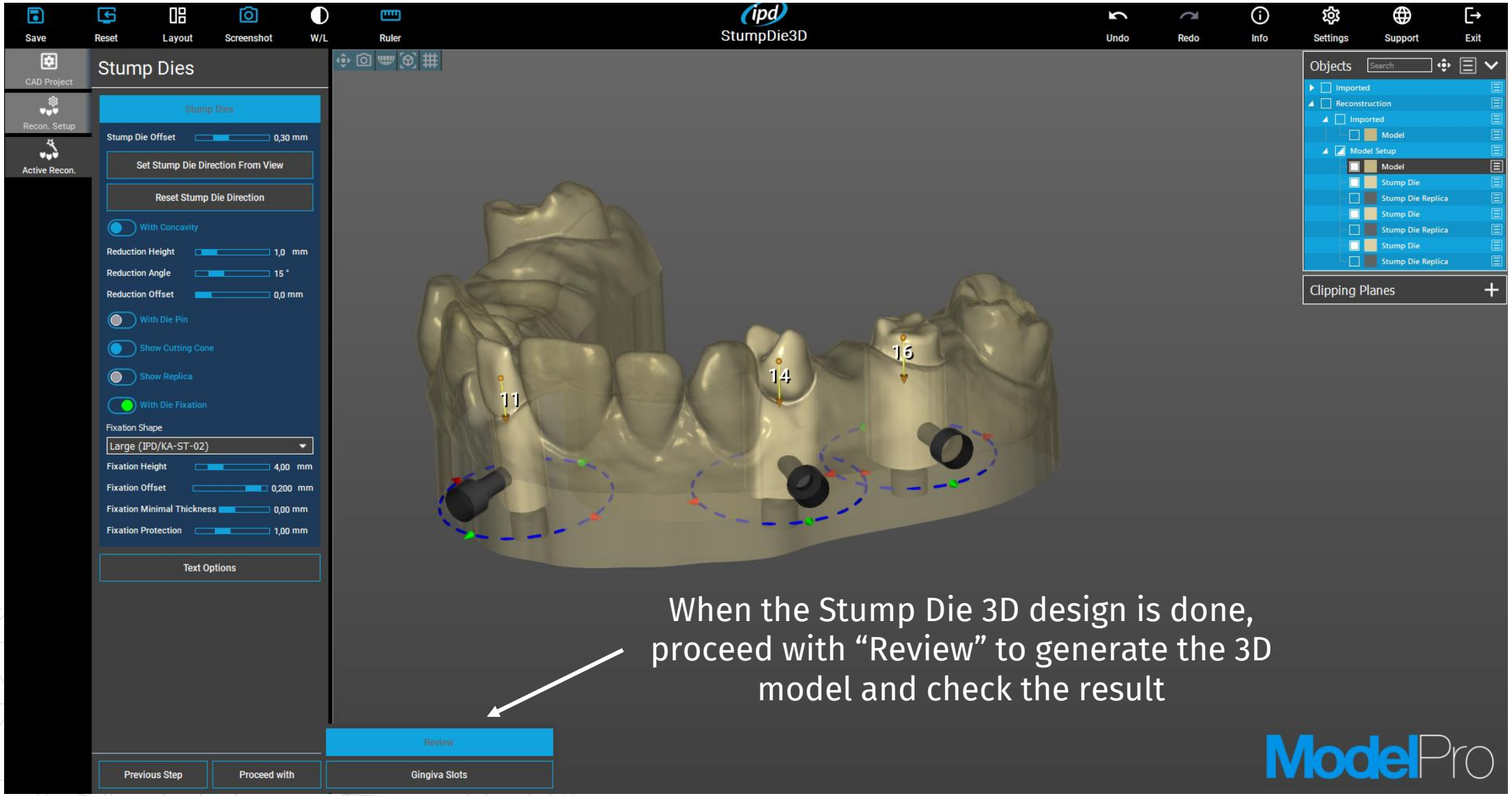

When the Stump Die 3D design is done, proceed with “Review” to generate the 3D model and check the result

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Once the model is correctly generated, select the model and all Stump Die meshes to export them as STL files

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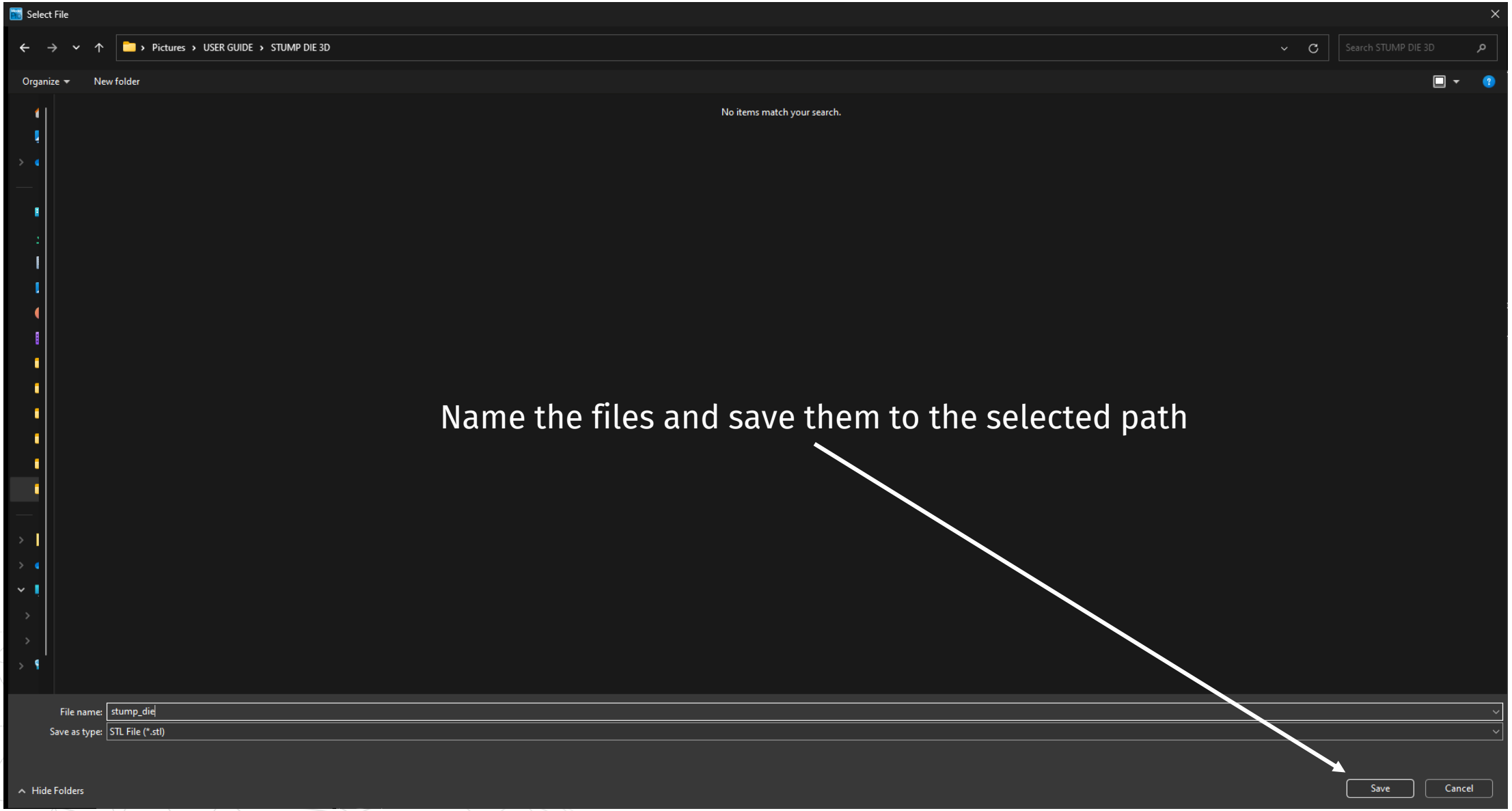

Name the files and save them to the selected path

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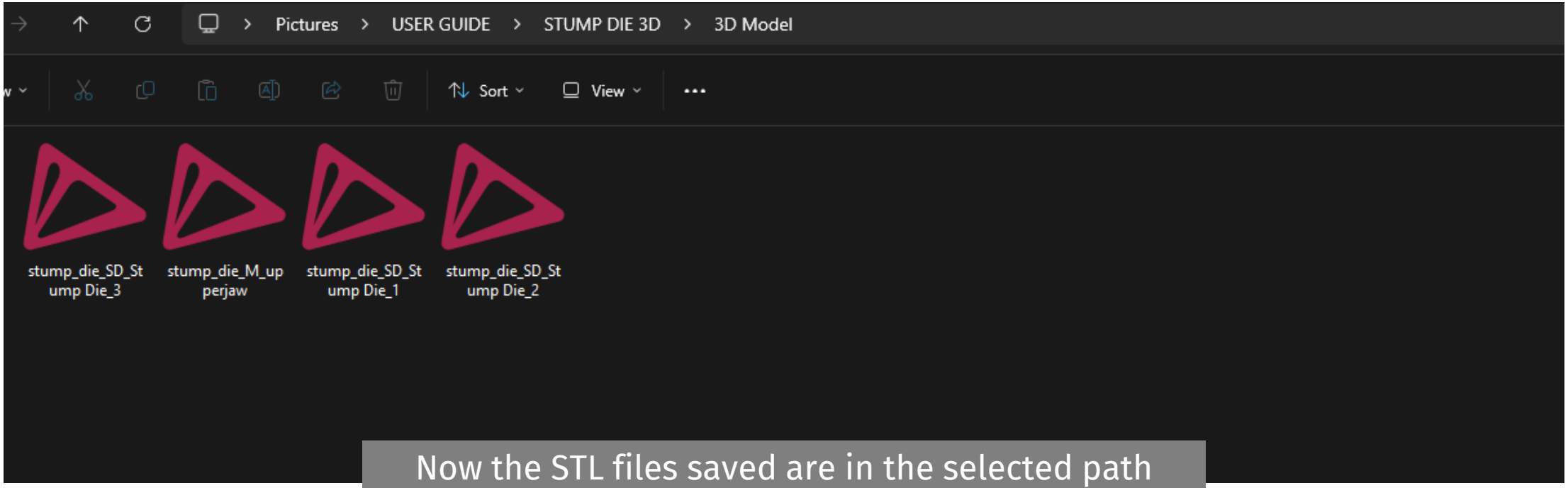

Now the STL files saved are in the selected path ready for 3D printing

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