

NOVA MODEL KNOWLEDGE BASE

The Nova Model knowledge base is now one click away, answering your questions 24/7.

What's in it for you?

- Step-by-step instructions
- Frequently asked questions

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INSTALLATION

The new Model feature is automatically added to your Nova installation by the Nova updater. Available after restoration design, you can use it to create a model.

GETTING STARTED

1. Double click **N (Nova)** on your desktop.
2. Log into Nova with your username.
3. Enter the PIN.

Your Nova Model will be available once you have finished designing your restoration in the Anatomy Driven Workflow.

GENERAL SETTINGS

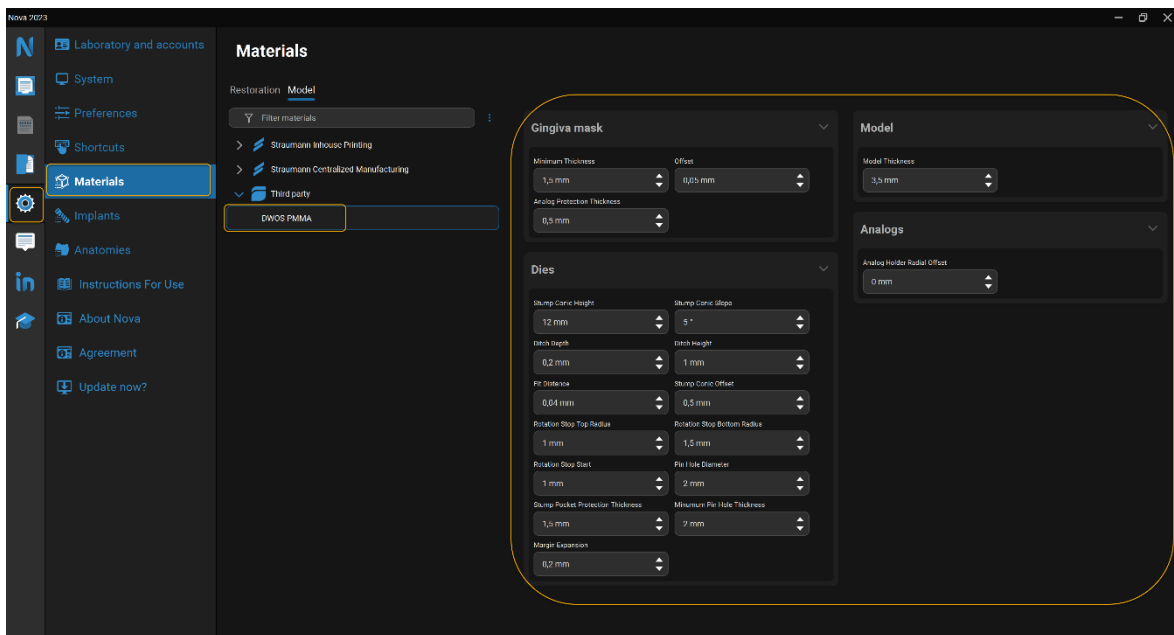
MODEL SHORTCUTS

Display – show/ hide elements in the 3D view

Ctrl+C	Upper model only
Ctrl+V	Lower model only
C	Upper model and dies, analogs, gingiva masks
V	Lower model and dies, analogs, gingiva masks
N	Dies, analogs, and gingiva masks

MATERIAL AND PARAMETER SETTINGS

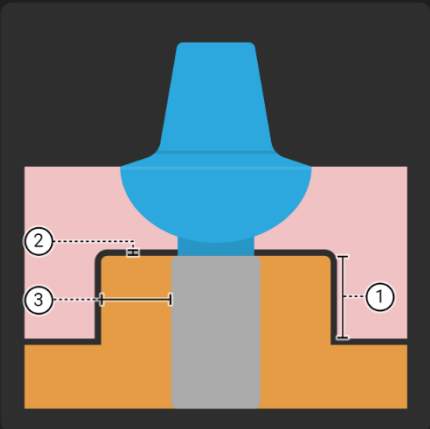
1. Click  **Settings**.
2. Click **Materials**.
3. Click **Model** to show model materials.
4. Click a material group to see the options.
5. Select a material to edit the measurement parameters.



 Note: Due to manufacturer's recommendations, some parameters cannot be changed and are greyed-out.

 Note: You must be logged in as Admin to be able to edit a parameter.

Gingiva mask:

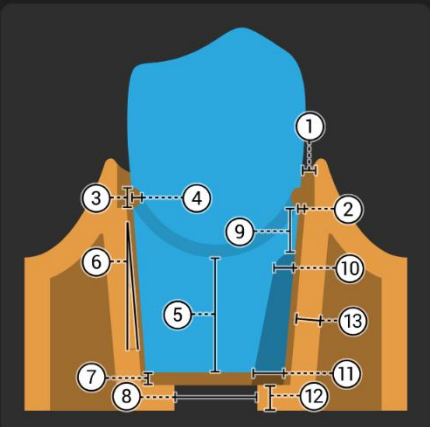


1. Minimum thickness
1.5 mm

2. Offset
0.05 mm

3. Analog protection thickness
0.1 mm

Dies:



1. Margin expansion
0.2 mm

2. Fit distance
0.04 mm

3. Ditch height
1 mm

4. Ditch depth
0.2 mm

5. Stump conic height
12 mm

6. Stump conic slope
5 °

7. Stump conic offset
0.5 mm

8. Pin hole diameter
2 mm

9. Rotation stop start
1 mm

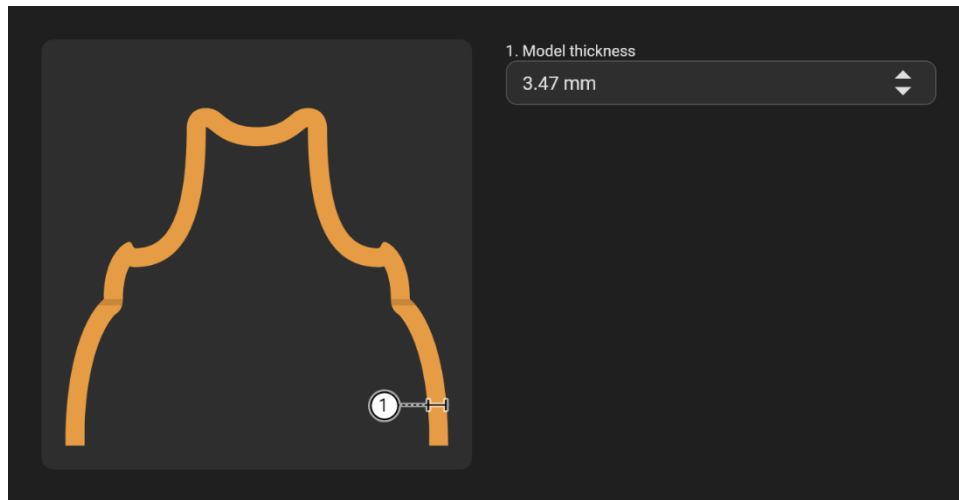
10. Rotation stop top radius
1 mm

11. Rotation stop bottom radius
1.5 mm

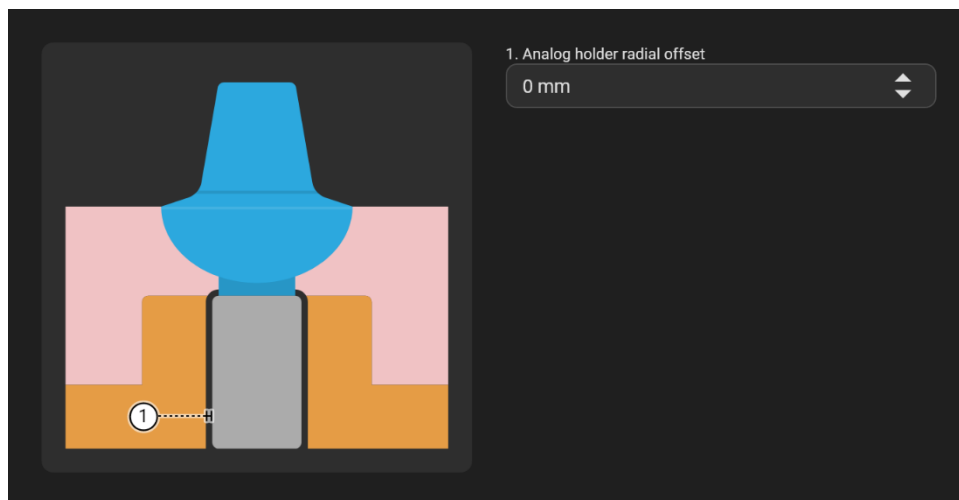
12. Minimal pin hole thickness
2 mm

13. Stump pocket protection thickness
1.5 mm

Model:



Analogs:

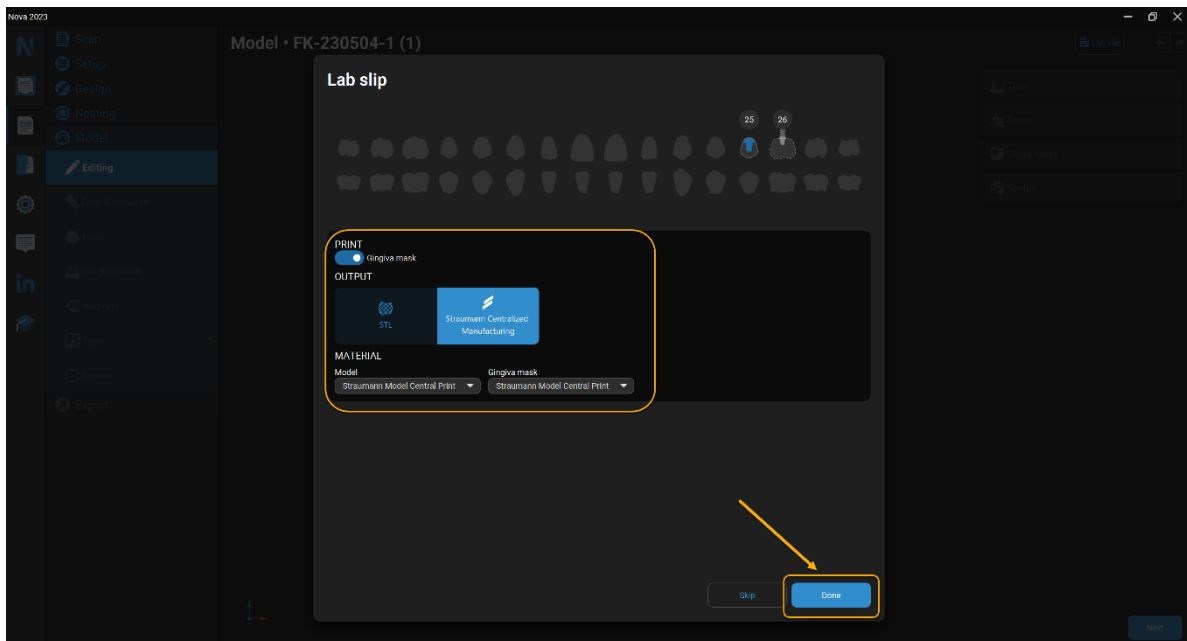


☐ Note: The Model height is automatically adjusted to the selected die and analog length. The longer the die and analog are, the longer the model will be.

MODEL

LAB SLIP

1. After finishing the design of your restoration, fill out the Model *Lab slip*.
2. If your case includes an implant restoration, click **Gingiva mask** to select it. (Optional)
3. Choose between **STL** (in-house production) or **Straumann Centralized Manufacturing**.
4. Select the material you want to use.
5. Click **Done**.

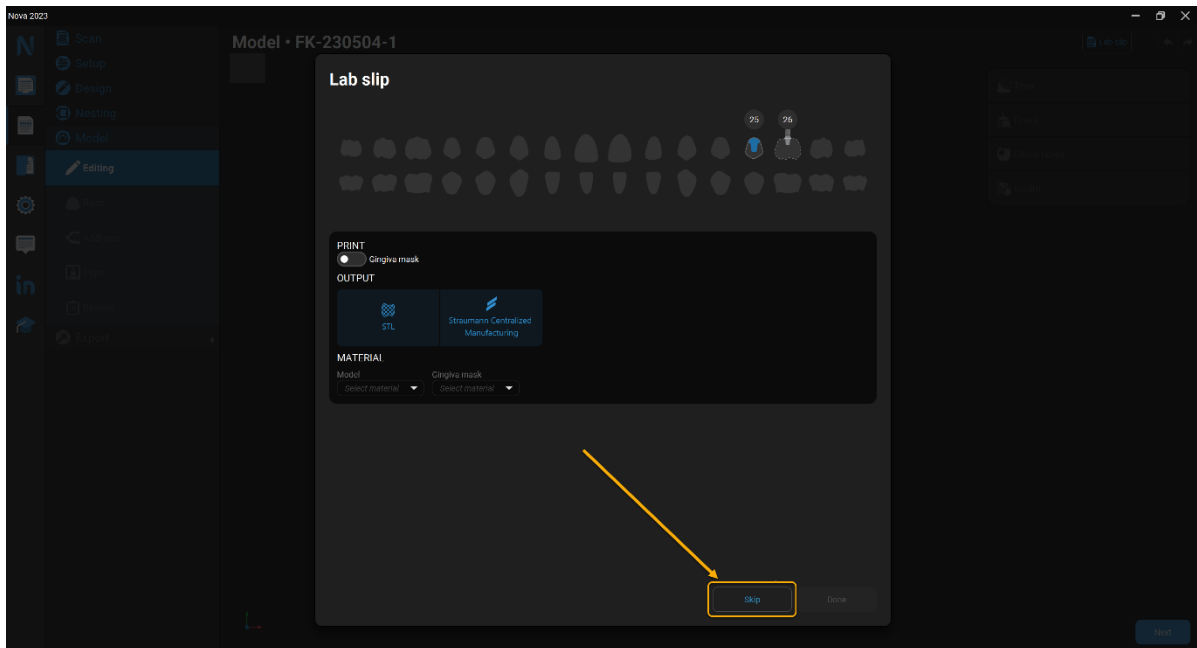


❏ Note: Gingiva mask is only available for models that include an implant.

SKIP MODEL

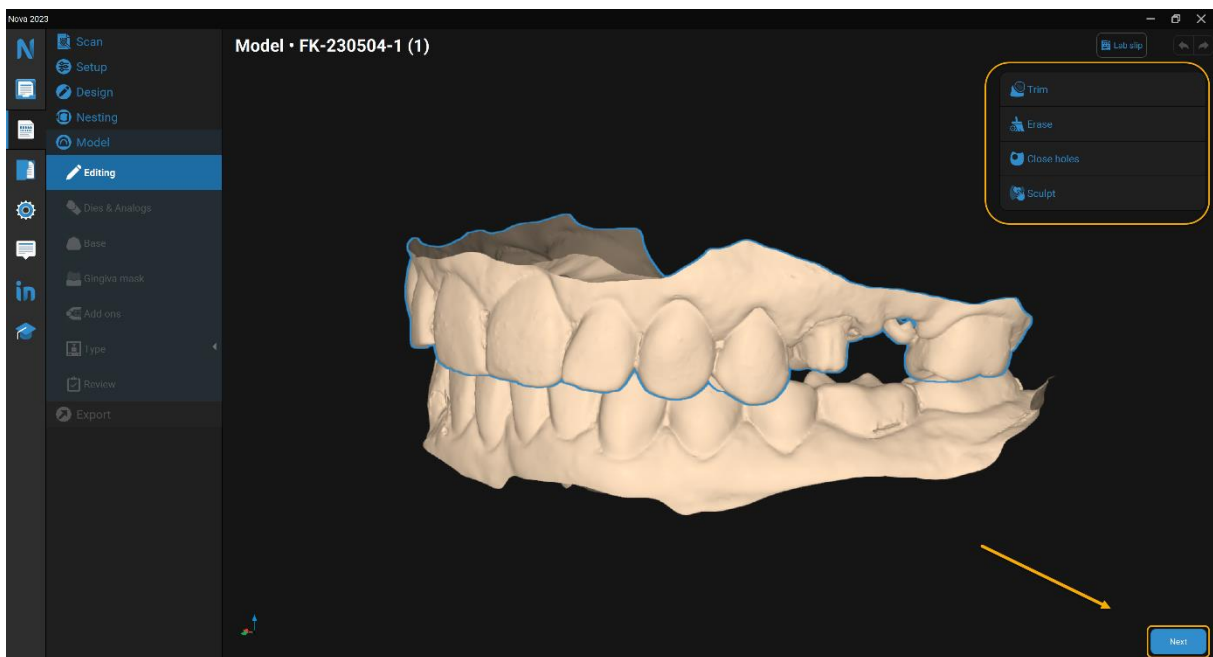
If you don't want to design a model, click **Skip** in *Lab Slip*. After confirmation you are directed to the usual Export step.

 Note: Don't **Skip** Model if you think you might want a model later. Currently you can only export your files once to Straumann Centralized Manufacturing (to avoid sending the files twice). You cannot open the Model section after sending your design.



EDITING

1. Click **Editing**. Your Toolkit is in the upper right corner.
2. Use the tools to modify your scans.
 - a. Click the surface you want to edit. Tools only work on surfaces highlighted in blue.
 - b. Once you make changes the Undo and Redo buttons will be available for use in the upper right.
3. Click **Next**. Holes will automatically close.



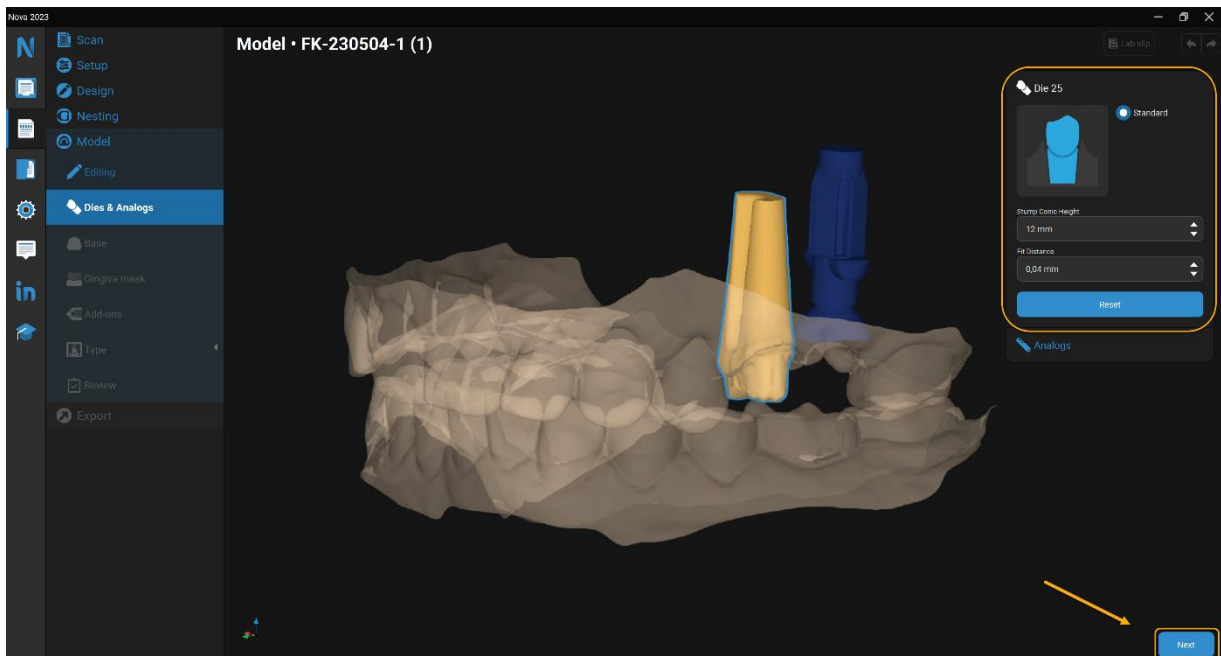
DIES & ANALOGS

DIES

1. Click **Dies & Analogs** (if not already selected).
2. Select a die (if there is more than one) and adjust the measurements in the Die toolkit as needed.
3. Click **Next** to continue.

 Note: You can adjust the measurements of each die separately.

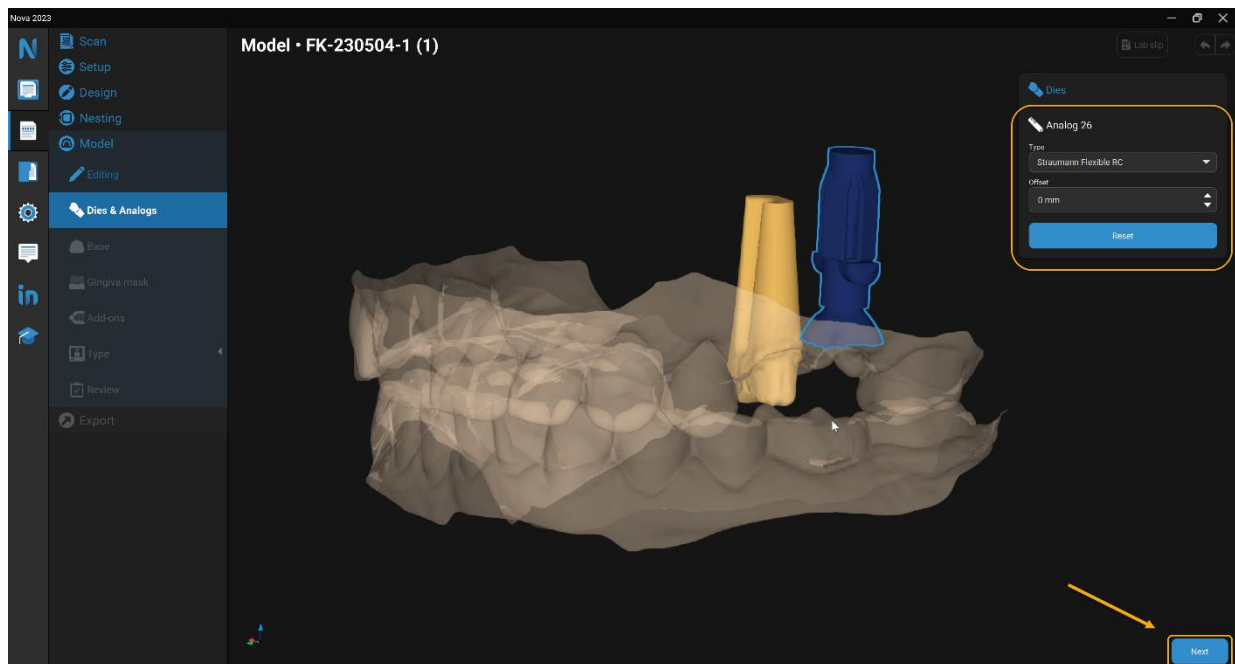
 Note: The Model height is automatically adjusted to the selected die length and/or analog length. The longer the die or analog are, the longer the model will be.



ANALOGS

1. Click **Dies & Analogs** (if not already selected).
2. Select the **Analogs** toolkit.
3. Select an analog (if there is more than one) and adjust the measurements in the Analog toolkit as needed.
4. Click **Next** to continue.

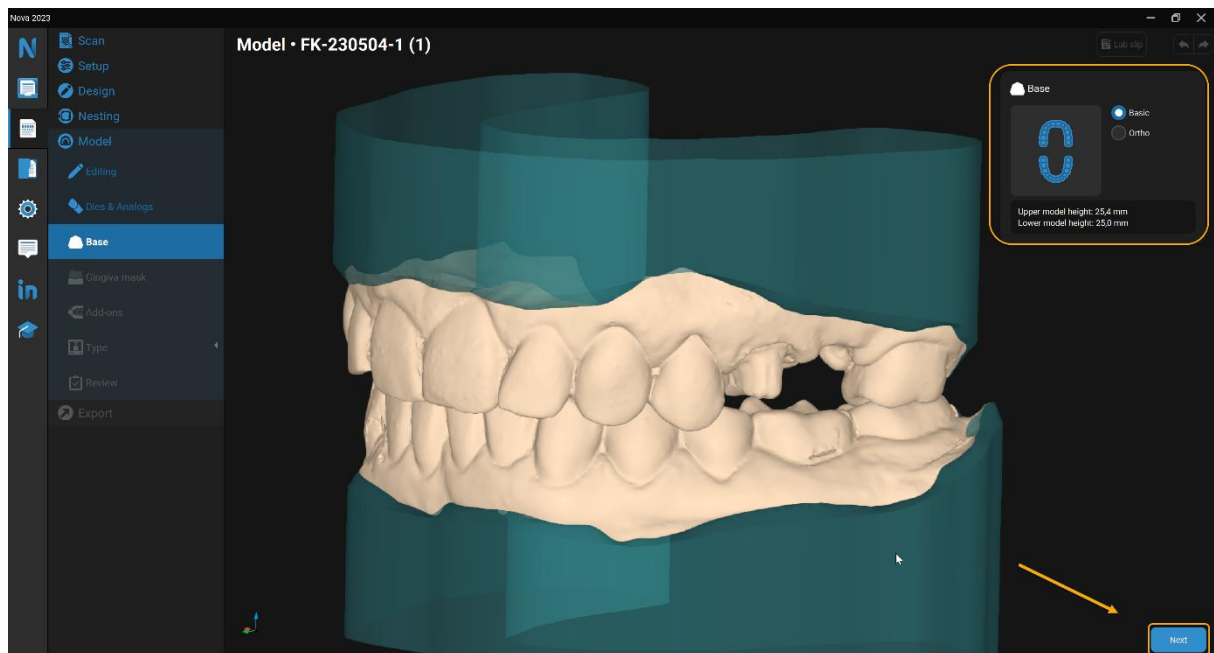
 Note: You can adjust the offset for each analog separately.



BASE

1. Select **Base** (if not already selected).
2. Select **Basic** or **Ortho** base.
3. Click **Next** to continue.

 Note:



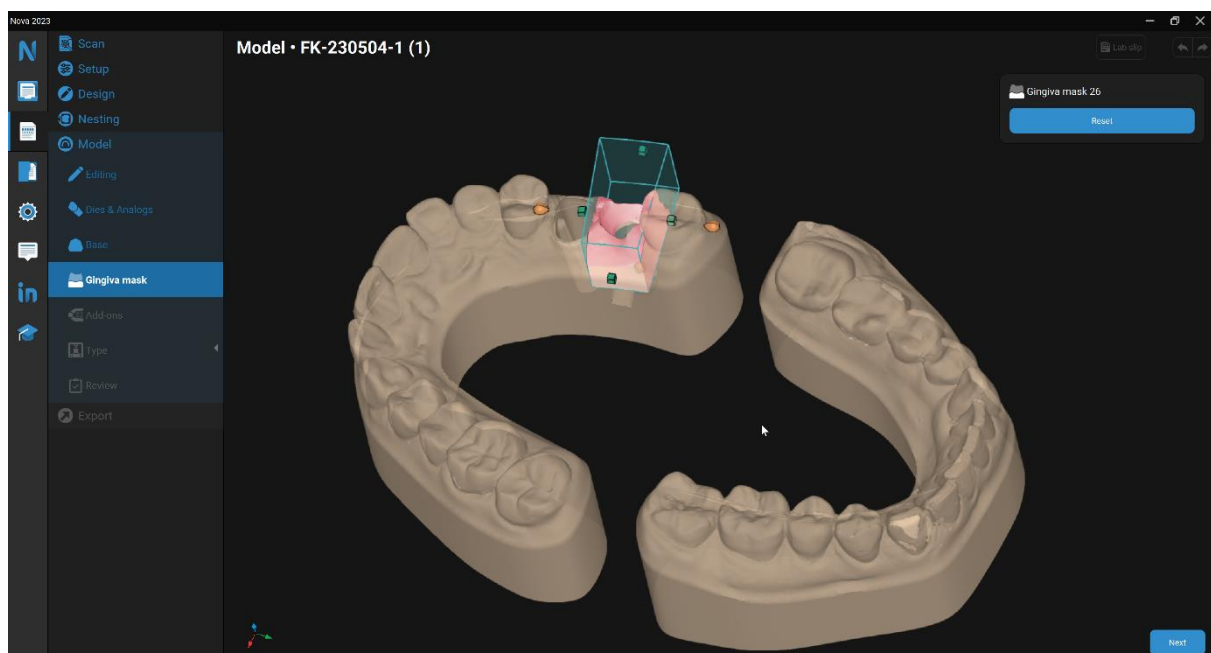
GINGIVA MASK

This step is available only if you have an implant case, and the Gingiva mask button is activated in the *Lab slip*.

1. Click **Gingiva mask** (if not already selected).
2. Select the gingiva mask you want to modify.
3. Drag the green handles to change the dimensions of your design.
4. Drag the orange teardrop handles to change the angles of your design.
5. Click **Next** to continue

 Note: Drag the square green handles to alter the dimensions of your design, and the orange teardrop handles to change the angles. When you change your viewpoint you can change the length, width or depth of the design.

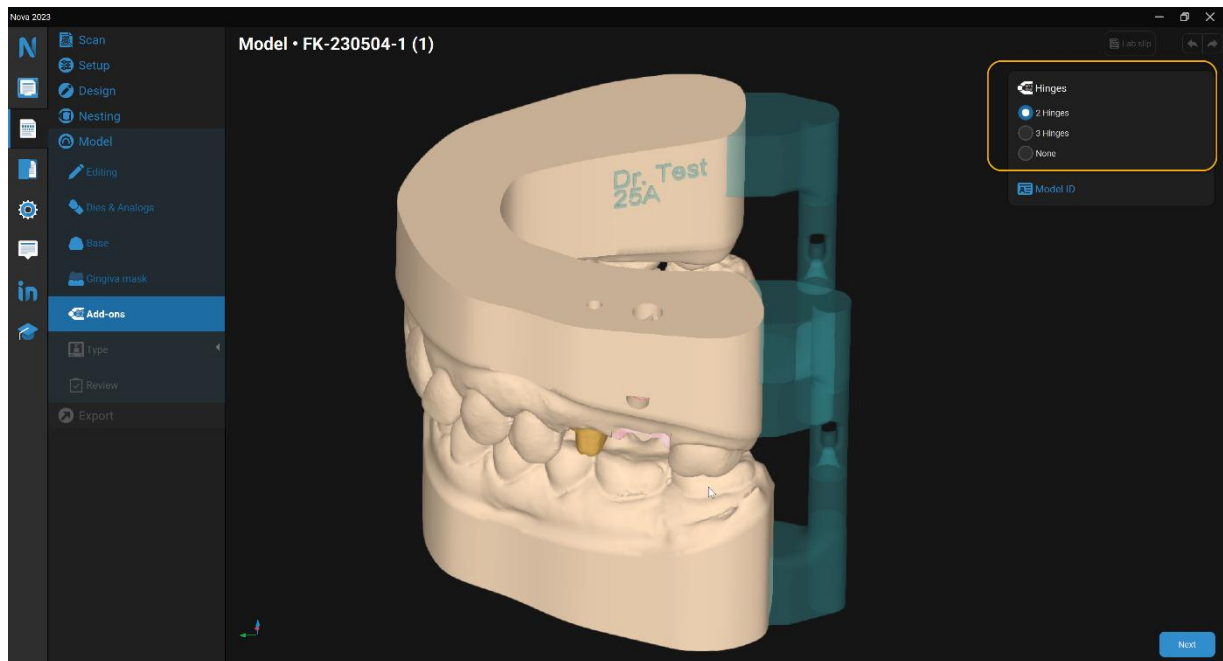
 Note: Once you make changes the Undo and Redo buttons will be available for use in the upper right.



ADD-ONS

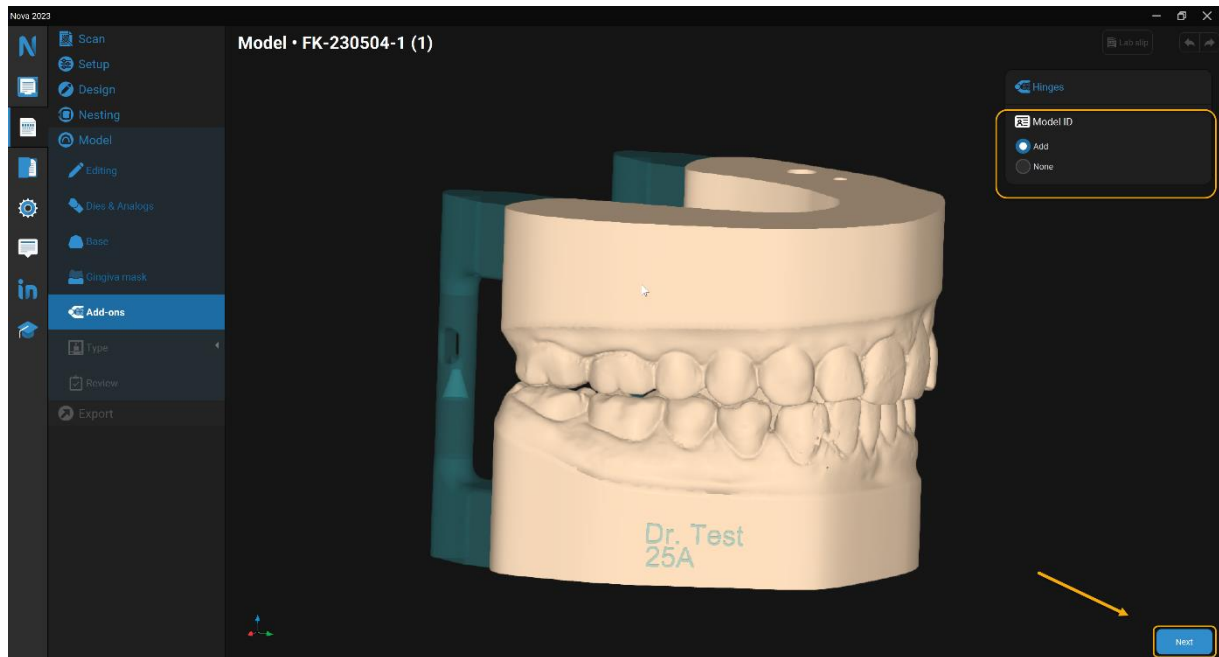
HINGES

1. Click **Add-ons** (if not already selected).
2. 2 Hinges are added automatically. Other options are **3 Hinges** or **None**.



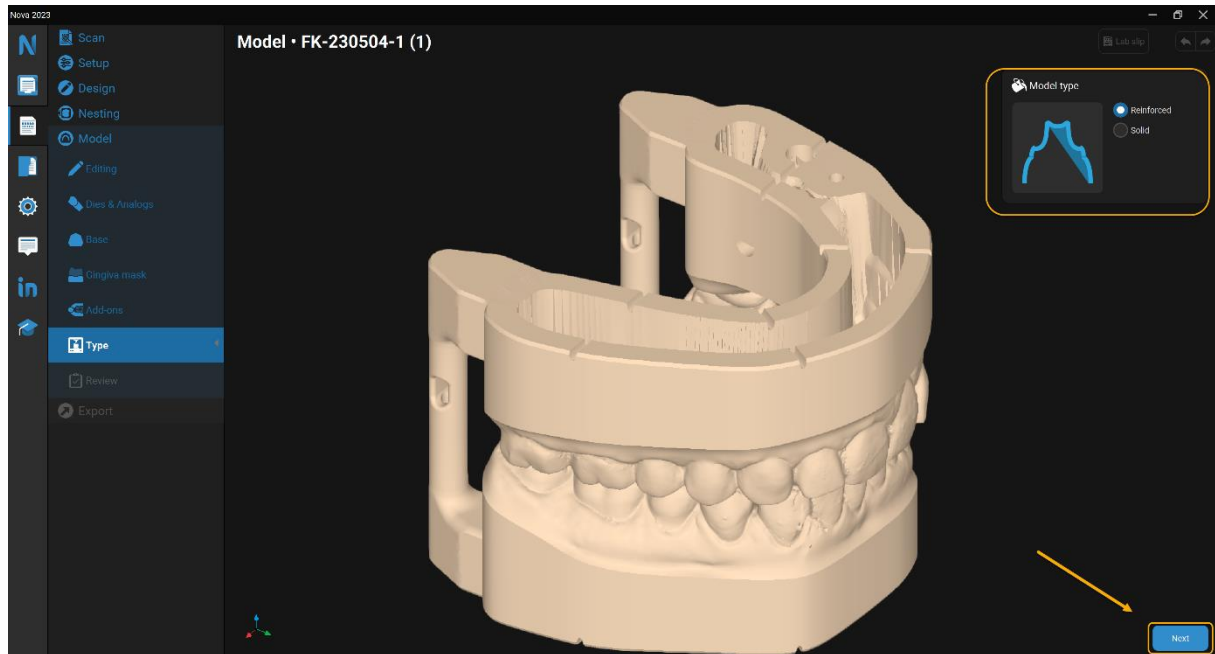
MODEL ID

1. Click **Add-ons** (if not already selected).
2. Click **Model ID** in the Toolkit.
3. Select between **Add** or **None**
4. Click **Next** to continue



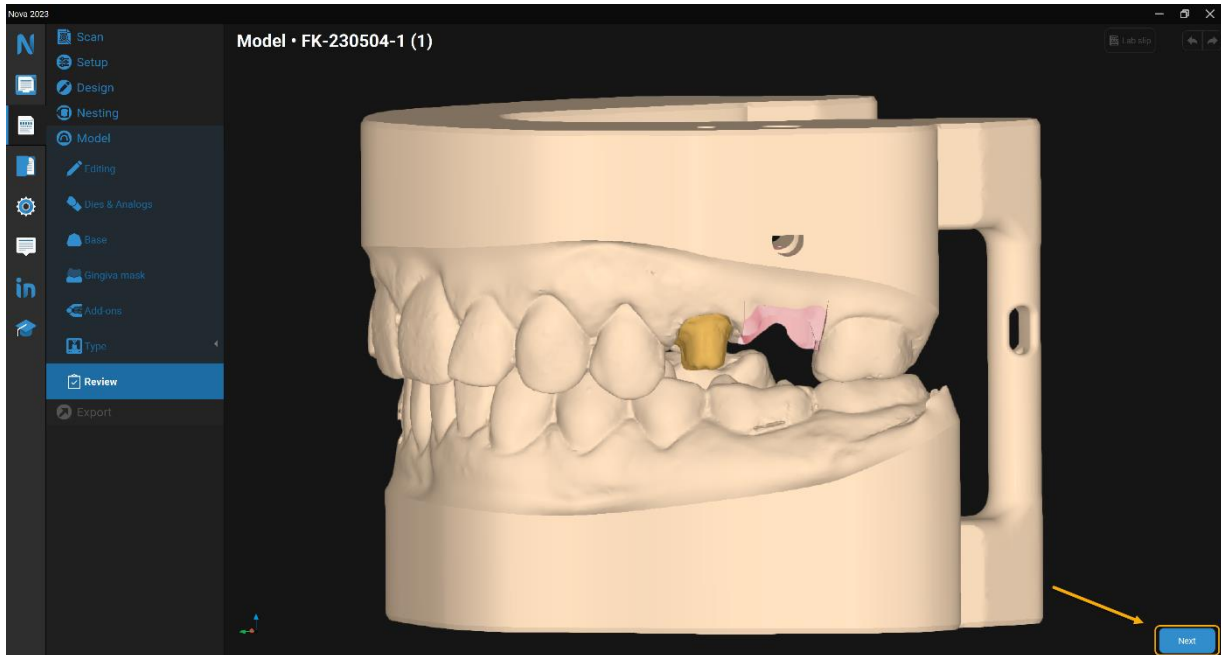
TYPE

1. Click **Printing** (if not already selected).
2. Select **Reinforced** or **Solid Model Types**.
3. Click **Next** to continue.



REVIEW

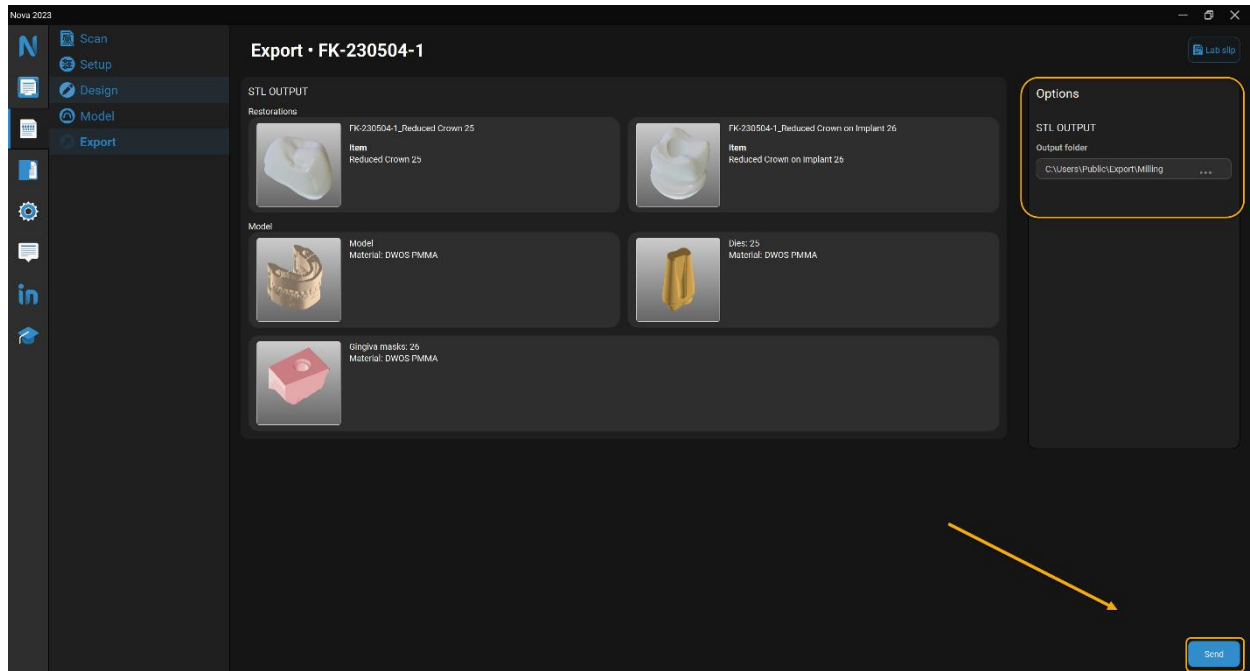
1. Click **Review** (if not already selected).
2. Check your model before Export using the shortcuts (see Shortcuts above).
3. Click **Next** to continue.



EXPORT

1. Click **Send** to export the STL.

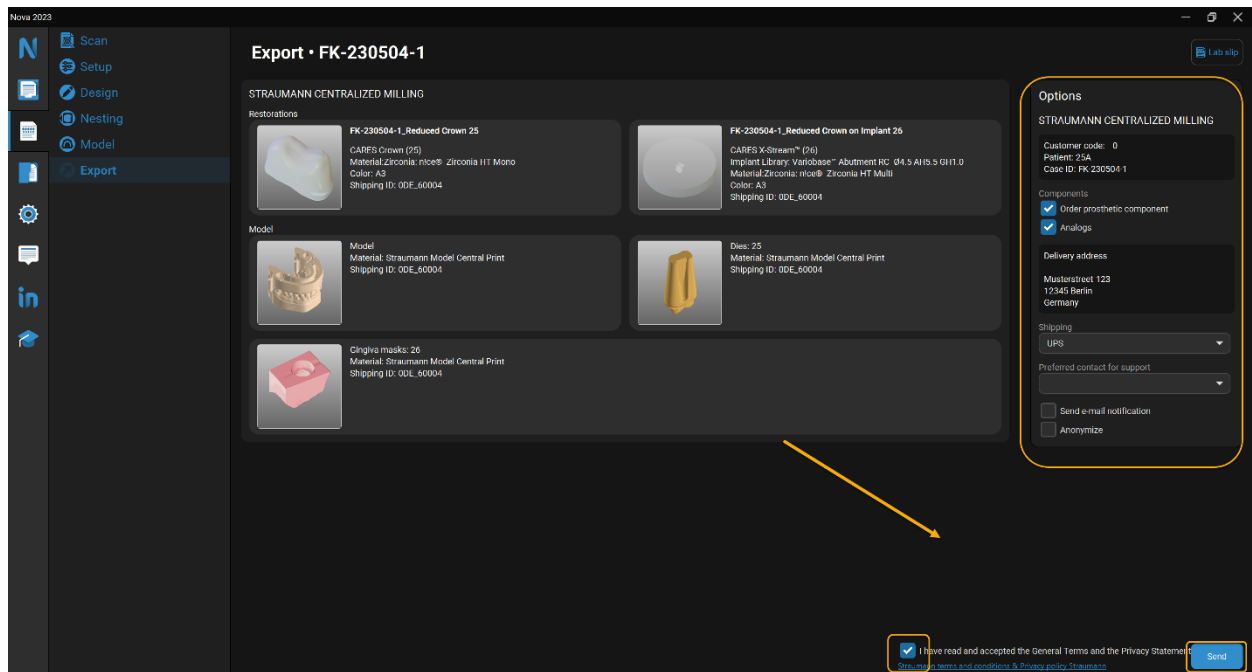
 Note: To change the location of the standard *Output* folder, click ... **More** on the right side, and choose the storage location on your PC.



 Note: Contact your local support to activate this feature.

EXPORT TO STRAUMANN CENTRALIZED

1. Check **Analogs** to order the analogs along with the printed model.
2. Check **Send email notification** to receive updates about your case by email.
3. Check **Anonymization** to anonymize the patient's name.
☐ Note: The patient's name is included in the auto-generated Model ID. Click **None** at the Model ID step to hide it.
4. Check **General Terms & Conditions** at the bottom to accept the terms and conditions.
5. Click **Send** to finish.



☐ Note: Contact your local support to activate the STL export feature.

TROUBLESHOOTING

GENERAL

Q: Can I use Nova Model without designing a prosthesis?

A: No. Nova Model is only activated after designing the prosthesis and is not available yet as a standalone.

Q: Can I skip Nova Model after finishing the design?

A: Yes. You can skip Model to continue without printing a model. See Skip Model.

Q: Can I design a gingiva mask for a tooth-borne case?

A: This feature is not yet available in Nova Model.

Q: Are there more die types available?

A: Currently only the base die type is available.

Q: Is it possible to adjust the model height?

A: The Model height is automatically adjusted to the selected die length and/or analog length. The longer the die or the analog is, the longer the model will be.

Q: Can I adjust the model alignment in Nova Model?

A: The model alignment is based on the Orientation step in the design process.

Q: If I have a case with an inlay, onlay, veneer or diagnostic crown, can I extract the dies?

A: No. The model does not include dies with inlays, onlays, veneers or diagnostic crowns. This feature is not yet available in Nova Model.

Q: If I have a case with a diagnostic crown or bridge can I extract the dies?

A: No, this feature is not yet available in Nova Model.

Q: Is there a workaround if the hinges fail to compute or if their position is not correct?

A: Yes. Go back to the [Base](#) step and select the **Ortho** base.

Q: I skipped the Model step and sent my design restoration to Straumann. Why can't I open the Model section in the software to design my model now?

A: Currently you can only export your files once to Straumann Centralized Manufacturing. This is to avoid sending the files twice. You cannot open the Model section after sending your design.

Q: Is it possible to export the model as an STL?

A: Yes, if you have the Nova Unlimited License. Reach out to your local Straumann Subsidiary for more information.