inLab Model
Software Version 19.x

Operator’s Manual
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1 Introduction

1.1 Dear Customer,

Thank you for your purchase of this inLab Model software plug-in from Dentsply Sirona.

This software allows you to create models with removable stumps digitally. The software is a separate application into which 3D models can be imported from the inLab SW software.

Improper use and handling can create hazards and cause damage. Therefore, please read and follow this manual carefully. You should always keep it within reach.

Train using practice models in order to master the software safely.

Also pay attention to the safety instructions to prevent personal injury and material damage.

Your
inLab Model team

1.2 Copyright and trademark

Copyright © Sirona Dental Systems GmbH. All rights reserved.

The information contained in this manual may be changed without notice.

The software and all related documentation are protected by copyright. You must therefore handle it in the same way as any other protected material.

Anyone who copies this software to any medium for any purpose other than his own personal use without the written permission of Sirona Dental Systems will be liable to prosecution.

Notes on 3rd party code libraries must be stored in license.pdf in the installation directory.
2 General data

Please read this document completely and follow the instructions exactly. You should always keep it within reach.

Original language of the present document: German

2.1 General safety information

Only use original software

Only use original software or software which has been released by Dentsply Sirona. To produce models, manipulated or non-released software components must not be used.

Software and software components must not be installed using incorrect data.

Please check that each installed component has been granted approval in its country. Contact your dealer for more information.

Models to be checked by trained personnel

Each model which is created with this software must be checked for suitability by a trained person (e.g. dental technician or dentist).

Observe the information from the material manufacturer

Please observe the processing instructions and combination options of the material/implant manufacturer applicable in your country.

Observe the wall thicknesses recommended by the material manufacturer

For the USA only

CAUTION: Federal law (USA) restricts sale of this device to or on the order of a physician, dentist, or licensed practitioner.
2.2 Structure of the manual

2.2.1 Identification of the danger levels

To prevent personal injury and material damage, please observe the warning and safety information provided in these operating instructions. Such information is highlighted as follows:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>! DANGER</td>
<td>An imminent danger that could result in serious bodily injury or death.</td>
</tr>
<tr>
<td>! WARNING</td>
<td>A possibly dangerous situation that could result in serious bodily injury or death.</td>
</tr>
<tr>
<td>! CAUTION</td>
<td>A possibly dangerous situation that could result in slight bodily injury.</td>
</tr>
<tr>
<td></td>
<td>A possibly harmful situation which could lead to damage of the product or an object in its environment.</td>
</tr>
<tr>
<td>IMPORTANT</td>
<td>Application instructions and other important information.</td>
</tr>
</tbody>
</table>

Tip: Information for simplifying work.

2.2.2 Formats and symbols used

The formats and symbols used in this document have the following meaning:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔️ Prerequisite</td>
<td>Requests you to do something.</td>
</tr>
<tr>
<td>✔️ 1. First action step</td>
<td></td>
</tr>
<tr>
<td>✔️ 2. Second action step</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>➢ Alternative action</td>
<td></td>
</tr>
<tr>
<td>➢ Result</td>
<td></td>
</tr>
<tr>
<td>➢ Individual action step</td>
<td></td>
</tr>
<tr>
<td>See &quot;Formats and symbols used [→ 6]&quot;</td>
<td>Identifies a reference to another text passage and specifies its page number.</td>
</tr>
<tr>
<td>● List</td>
<td>Designates a list.</td>
</tr>
<tr>
<td>&quot;Command / menu item&quot;</td>
<td>Indicates commands / menu items or quotations.</td>
</tr>
</tbody>
</table>
2.2.3 Conventions

<table>
<thead>
<tr>
<th>Example</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click</td>
<td>A single click down and releasing of the left mouse button.</td>
</tr>
<tr>
<td>Double-click</td>
<td>Clicking and releasing of the left mouse button twice in quick succession.</td>
</tr>
<tr>
<td>Seizing a point</td>
<td>Press the left mouse button and hold it down.</td>
</tr>
<tr>
<td>“Ctrl+N”</td>
<td>On the keyboard: Press the Ctrl and N keys simultaneously.</td>
</tr>
<tr>
<td>Drag &amp; drop</td>
<td>Press and hold an element (e.g. a pictograph) and drop / release it onto a potential destination.</td>
</tr>
</tbody>
</table>

2.2.4 Manual formats (assistance)

You can access the manual via the Help button or by pressing "F1".

The PDF format user manual can be found on the supplied software DVD or on the Internet (http://www.dentsplysirona.com/manuals).

This format is page-oriented and is well suited for printing out the desired pages.

2.2.5 File format

Depending on the status of processing, an order consists of calculated virtual models and stumps. The software uses its own file format (*.mdl) to export an order. This format contains all of the order data. mdl files can be opened with other installations of the inLab Model plug-in. Under certain circumstances, older software versions cannot open data exports from a more recent version.
3 Getting started

3.1 Installing the software

The software requires at least the 2.00 firmware version of the USB license stick. Update the firmware version if necessary.

You need at least one inLab-PC V 3.0.1 for the software. An inLab PC V 5.0.1 is recommended.

Use the version of the license manager provided with this version to import licenses from the license certificate provided.

**NOTE**

An inLab SW software version 19.0 or higher is required for installing the inLab Model app.

- The license stick firmware is available in version 2.00.
- The PC is powered up and all programs are terminated.
- The installation file of the inLab Model plug-in is downloaded and saved onto the hard disk or onto removable data storage media.

1. Go to the directory and start the “Setup.exe” file.
   - The installation wizard opens.
2. In the next dialog, click the “Next” button.
   - The license agreement is shown.
3. Read the license agreement carefully.
4. If you accept the license agreement, then check the “I accept the terms in the license agreement” option and subsequently click the “Next” button.
5. In the next dialog, click the “Next” button.
6. Select to which inLab SW software version the inLab Model should connect.
7. In the next dialog, click the “Install” button.
   - The program continues the installation routine. This may take several minutes.
8. Click the “Finish” button once installation is complete.
   - The software is installed.
   - The inLab Model plug-in connects automatically with the latest inLab SW software.
   - Following a successful installation, the inLab Model plug-in button can be found under “Apps” in the system menu of the inLab SW software.
3.2 Uninstalling the software

✓ The program is closed.

1. Click on "Start / All Programs / Sirona Dental Systems / inLab Model / Tools / Deinstallation” to uninstall the software.
   During the uninstall procedure, you will be asked whether you want to delete the patient data or the entries in the registration database (e.g. the calibration data).

2. Depending on your decision, click either the “Yes” or “No” button.
   The software is uninstalled.

3.3 Copy protection

The software can be started only when the USB license stick is plugged in. The USB license stick is included in the scope of supply of the units. If you require additional licenses, please contact your dealer.

Always keep the USB license stick near the unit.

All authorizations (software licenses) can be installed as electronic licenses on the USB license stick. You must enter a 25-digit license key for this purpose.
You will receive the license key along with the unit. Alternatively, you can order it separately from your dealer.

Following an update, you may require a new license that is not available on your USB license stick. For more information, refer to the section License manager [→ 15].
3.4 Starting the software

- The inLab SW software is installed. You will find the start icon or the start icon for the inLab Model plug-in on the desktop.
- The USB license stick is activated with a valid, current license.
- You are in the MODEL phase in the inLab software, and a 3D model is already calculated.

1. Open the inLab SW software.
2. Click the "Run Application..." button in the inLab SW software system menu.
3. Then click on the "inLab Model" button.
   - The software is started.
   - The 3D models are automatically imported into the inLab Model software from the inLab SW software.

Alternative start options

- The inLab Model software is installed. You will find the start icon of the inLab Model software on the desktop.

1. Double-click the inLab Model start icon.
   or
   ➢ Click "Start / All Programs / inLab Model" in the Windows Start menu.
   - The software is started.
4 User interface

Overview of the user interface

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>System menu</td>
</tr>
<tr>
<td>B</td>
<td>Phase bar</td>
</tr>
<tr>
<td>C</td>
<td>Page palette</td>
</tr>
<tr>
<td>D</td>
<td>Step menu</td>
</tr>
<tr>
<td>E</td>
<td>Main window</td>
</tr>
</tbody>
</table>

4.1 Phase bar

The workflow is illustrated in the software in 3 phases.

**Phase bar**

- PREPARE
- DESIGN
- FINALIZE

4.1.1 PREPARATION

In this phase, you can do the following:
- Crop the model
- Determine the stand height and extension for the stand
4.1.2 DESIGN

In this phase, you can do the following:

- Create removable stumps
- Create implant analogs
- Create gingival masks
- Insert model supports / connectors
- Attach model holders / articulators

4.1.3 FINALIZING

In this phase, you can do the following:

- Hollow out the model
- Apply/remove material
- Apply text
4.2 System menu

In the system menu, you can:
- Open a case
- Save a case
- Save the case under a different name
- Configure software
- Open license manager
- Retrieve software information
- Change window mode
- Exit program

Open system menu
1. Move the cursor onto the "System menu" button.
2. Click on the "System menu" button.
   ➡️ The system menu is displayed.

Close system menu
1. Click on the "System menu" button.
or
2. Click into the main window with the left mouse button.
   ➡️ The system menu is closed.
4.2.1 Save case

In this dialog, you can save the actual case.
➢ Select “Save Case” in the system menu.
メディカル The current processing status of the case is saved.

4.2.2 Save the case under a different name

This dialog allows you to save the current case under a new name or assign it to a different patient.
1. Select “Save Case As...” in the system menu.
2. Select the desired save location and enter a file name.

4.2.3 Configuration

The configuration is described in the "Configuration [→ 17]" section.
4.2.4 **License manager**

The license manager is used for the installation of new software licenses on the USB license stick. To do this, start the license manager via the system menu and follow the instructions on the screen. Keep the license certificate with 25-digit license key ready, which you either obtained with the unit or ordered separately from your dealer.

**Tip:** You can also start the license manager via "StartAll Programs / Sirona Dental Systems inLab Model Tools License Manager".

To activate the license you must have an Internet connection and the USB license stick must be connected.

**Firmware update**

You can update the firmware for the license stick manually.

1. Change to step "Status".
2. Select the license stick in the selection list.
3. Click on the "Firmware Update" button.

   - The license stick selected is updated.

If you have more than one license stick, you must repeat the step for each license stick.

**Licenses and code libraries**

For information on licenses and code libraries from other providers, see licenses.pdf. The file is in the installation directory under "C:/Programs/Sirona Dental Systems/CADCAM".

4.2.5 **Open help information**

You can access the manual via the Help button or by pressing "F1".

4.2.6 **Window mode**

The "Window Mode" function can be used to exit full-screen mode or enter it again. You can also activate/deactivate the window mode via F11.

4.2.7 **Exit program**

The "Exit" function can be used to close the software.
4.3 Step menu

Each phase is divided into steps. These are displayed in the step menu at the bottom edge of the screen. The step menu changes depending on which phase the current modelling is located in at the time.

This menu guides you through the process step-by-step. The system runs through all steps in a phase with the modelling(s). Changes in the individual steps are accepted by clicking on the next step.

The double arrow keys can be used to switch between phases.
5 Configuration

5.1 Settings

The menu item "Settings" has the following subitems:

- "Warning messages"
- "Language"

5.1.1 Warning messages

Warnings may appear in pop-up windows when using the software. Many of these messages can be deactivated by clicking on the "Don't show this message again" check box. If this check box is already selected or if a new user uses the software, all warnings can be reset here. All warning messages are displayed as required by clicking the "Reset" button.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>YES</td>
<td>Displays all the deactivated warnings in the workflow again.</td>
</tr>
<tr>
<td>NO</td>
<td>Warnings which were previously hidden, remain hidden.</td>
</tr>
</tbody>
</table>

5.1.2 Language

Here, you can set the language of the software.
6 Editing orders

The “Shortcut keys [→ 36]” section describes how the following tools and options can be opened via shortcut keys. Not all tools are available in all phases.

6.1 Tools and functions of the page palette

The page palette offers you various different functions, depending on the current step.

6.1.1 Views

Rotate model
1. Click into the main window with the left mouse button to rotate the model.
2. Press and hold down the left mouse button and move the mouse in the direction in which you wish to rotate the model.

Move model
1. Click inside the main window with the right mouse button to move the model.
2. Press and hold down the right mouse button and move the mouse in the desired direction.

Zoom in and out of the model
➢ Rotate the mouse wheel forwards or backwards to zoom in or out of the model.

View Options
You can use the “View Options” button to display six predefined views.
- “Top”
- “Bottom”
- “Right”
- “Left”
- “Front”
- “Back side”

Display/hide the upper and lower jaw
1. Click on the “Display Objects” page palette.
2. Click on the “Upper Jaw” button.
   ✏ The upper jaw is displayed.
   ✏ The button is highlighted in orange.
3. Click on the “Upper Jaw” button once again.
   ✏ The upper jaw is displayed again.
   ✏ The orange highlighting disappears.
4. You can also display and hide the lower jaw once again in exactly the same way.
Display/hide stumps
If you have created stumps, then you can display and hide these in the model.
1. Click on the "Display Objects" page palette.
2. Click on the "Stumps" button.
   ✖️ The stumps created are displayed.
   ✖️ The button is highlighted in orange.
3. Click on the "Stumps" button once again.
   ✖️ The stumps are hidden once again.
   ✖️ The orange highlighting disappears.

Display / hide analogs
If you have created analogs, then you can display and hide these in the model.
1. Click on the "Display Objects" page palette.
2. Click on the "Analogs" button.
   ✖️ The analogs created are displayed.
   ✖️ The button is highlighted in orange.
3. Click on the "Analogs" button once again.
   ✖️ The analogs are hidden once again.
   ✖️ The orange highlighting disappears.

Display/hide connectors
If you have attached connectors to the model, then you can display and hide these in the model.
1. Click on the "Display Objects" page palette.
2. Click on the "Connectors" button.
   ✖️ The attached connectors are displayed.
   ✖️ The button is highlighted in orange.
3. Click on the "Connectors" button once again.
   ✖️ The connectors are hidden once again.
   ✖️ The orange highlighting disappears.

Display/hide gingival mask
If you have created a gingival mask, then you can display and hide this in the model.
1. Click on the "Display Objects" page palette.
2. Click on the "Gingiva Mask" button.
   ✖️ The gingival masks created are displayed.
   ✖️ The button is highlighted in orange.
3. Click on the "Gingiva Mask" button once again.
   ✖️ The gingival masks are hidden once again.
   ✖️ The orange highlighting disappears.
6.1.2 Tools

6.1.2.1 Reset

With the "Reset" button in the tools you can reset changes that were made with the tool.

6.1.2.2 Trim the model

Any unwanted areas of the model can be cut away with this tool.

1. Click the "Trim Model" button.
   - A cutting line is automatically displayed.
2. Hover over the model with your cursor.
   - The cursor automatically changes to a crosshair.
3. Double-click at the point on the cutting line where you wish to modify the cutting line.
4. Move the mouse in the direction in which you wish to modify the cutting line. You can pin the line down during entry by simply clicking it once. You can repeat this at any point on the cutting line.
5. Let this line end at the starting point by double-clicking the left mouse button at the starting point.
6. You can use the "Model Height" parameter to set the height for the model stand. The height of the stand can be adjusted separately for the upper jaw and lower jaw. The height of the stand can be adjusted for both jaws together using the "Link Upper Lower Model" checkbox.
   - You can use the "Basis Expansion" parameter to set the width for the stand.
7. Click the "Apply" button to complete the trimming process.

**IMPORTANT**

Even if you do not wish to cut any areas of the model away, you still need to click the "Apply" in order to calculate the model stand and move onto the next phase.
6.1.2.3 **Create a stump**

You can create removable stumps using this tool. You can adopt the preparation margins entered in the inLab software (red line) for the cutting.

➢ Click on the “Apply” button.

**Create preparation margins**

You can also create preparation margins.

1. Hover over the model with your cursor.
   - The cursor automatically changes to a crosshair.

2. Double-click at the point on the model where you want the preparation line to begin.

3. Drag a line around the model by moving the mouse along the stump. You can pin the line down during entry by simply clicking it once.

4. Let this line end at the starting point by double-clicking the left mouse button at the starting point.
   - The preparation margin has been created for cutting out the stumps.

5. Click on the “Apply” button to calculate the stumps.

6.1.2.4 **Process stump**

1. Click on the stump.
   - The stump is active (green).

2. In the page palette, the ”Gap to model” slide controller allows you to adjust the fit for the stump:

3. You can delete all the stump / stumps again via ”Delete”.

6.1.2.5 **Create an analog**

The following conditions must be met in order to insert an implant analog in a model:
- the scanbody in the inLab SW software has been clicked in the MODEL phase in the ”Click Scanbody Head” step,
- the implant position has been calculated.

This information is also sent when the inLab Model plug-in is launched.

1. To calculate the implant analogs in the ”Create Stumps” step click on the ”Create Analog” button.

2. Then click on the ”Create all Analogs” button.
6.1.2.6 Process the analog
1. Click on the analog.
   - The analog is active (green).
2. You can adjust the fit for the analog using the "Gap to model" slide controller.
3. Click "Apply" to confirm the change.
4. You can select different manufacturers for analogs under "Analog".
5. Then click "Create all Analogs" to confirm the change.
6. You can delete all analogs via "Delete".

6.1.2.7 Create gingival masks
Removable gingival masks can be created with this step in the DESIGN phase.
1. Click on the "Create Gingiva Mask" button.
2. Hover over the model with your cursor.
   - The cursor automatically changes to a crosshair.
3. Double-click at the point on the model where you want to begin drawing.
4. Now draw the desired shape of the gingival mask using the mouse.
5. End the drawing by double-clicking.
   - The calculation of the gingival mask begins immediately once it has been drawn.
6.1.2.8 Insert model supports and connectors

You can attach model supports and connectors at the desired points on the upper and lower jaw at this step in the DESIGN phase. These can also be combined.

1. Click on the "Support Strut" button.
2. Click on the button which displays your desired support or your desired connector.
3. Move the cursor towards the vicinity of the model.
   - The support / connector is displayed.
4. Drag the mouse cursor to the desired point and position the support / connector by double-clicking.

Modify supports / connectors that have already been placed

1. You can enable the supports / connectors that have already been placed by simply clicking once.
   - Arrows appear at the support / connector once these are enabled.
2. By clicking on an arrow, you can move the support / connector in the direction in which the arrow that has been clicked is pointing.
3. You can rotate the support / connector by clicking the arrow circle.

6.1.2.9 Insert connecting bar

You can insert a connecting bar into the jaw with full jaw models using this tool in the DESIGN phase.

1. Click on the "Add Bar" button.
2. Double-click the desired starting position for the bar.
3. Double-click on the desired end position for the bar on the opposite side.
4. You can enable and delete the bar or subsequently adjust the width and height of the bar by simply clicking it once.
5. You can place supports / connectors on this bar again.

6.1.2.10 Shaping

With the "Form" function, you can do the following to material
- apply
- smooth
- remove

Tip: If one of the shape tools is active, you can also switch to the following order using the space bar on the keyboard:
Add > Smooth > Remove > Add > ...

Apply material

1. Click the "Form" button.
2. Click on the "Add" button.
3. Click with the mouse cursor on the area you wish to shape.
4. Press and hold the left mouse button and apply the material to the surface location by moving the mouse.
Removing material

1. Click the "Form" button.
2. Click the "Remove" button.
3. Press and hold the left mouse button and remove the material from the surface location by moving the mouse.

Smoothing

When smoothing, you are able to smooth the surface locally.

1. Click the "Form" button.
2. Click the "Smooth" button.
3. Click with the mouse cursor on the location you wish to smoothen.
4. Press and hold the left mouse button and smoothen the surface location by moving the mouse.

6.1.2.10.1 Properties

Modify the size

You can use the "Size" slider to modify the size of the area affected. The area affected is shown as an orange colored area on the current model.

The size of the area affected can be modified for each shaping tool.

1. Click the "Size" slider and press and hold the mouse button.
2. Now drag the slider to the right or left to enlarge or reduce the area affected.
   - The orange-colored area (area affected) is expanded or reduced.

Adjusting thicknesses

You can use the "Strength" slider to modify the intensity of the area affected. The thickness of the affected area can be modified for each shaping tool.
6.1.2.11 **Hollow out the model**

The model can be hollowed out with this tool.

1. Click on the "Carve Out Model" button.
2. Then click the button marked "Apply".

**Determine wall thickness**

The wall thickness can be determined via the "Strength" slider.

1. Click the "Strength" slider and press and hold the mouse button.
2. Now drag the slider to the right or left to enlarge or reduce the area affected.

6.1.2.12 **Apply text**

You can apply text to the model using this tool.

1. Click on the "Enter Text" button.
2. Enter the required text in the textbox on the page palette.
3. Move the mouse to the required point and click to insert the text.

6.1.2.13 **Edit text**

1. Click on the text.
   - The text becomes active.
2. Once you move the mouse to the text the cursor changes into a crosshair and you can reposition the text.
3. You can tilt the text by moving the cursor to the arrows.
4. The "Recess" button allows you to engrave the text onto the model. The text is raised as standard.
5. The "Delete" button allows you to delete the text again.

6.1.2.14 **Export tool**

This tool provides various options for exporting the model data.

- If you have not enabled an option in the "Export" page palette and click "Export", all elements are written as a separate STL file.
- If you enable the "Single File" option, the model data is written in one STL file.
- If you enable the "Rotate Jaw/Elements to Same Plane" option, all elements are written individually aligned to a level plane.
- If you enable both options, the elements are written individually to a STL file aligned to a level plane.
6.2 PREPARATION phase

6.2.1 "Trim model" step

You can trim the model first after importing the jaw. The "Display Objects" button allows you to display and hide the following elements:

- Upper jaw,
- Lower jaw,
- Preparation margins, provided that these have already been entered in the inLab SW software.

**Trim the model**

You can open the page palette via the button in the right margin.

1. Click on the "Trim Model" button to trim the model.
2. Execute the tool as described under "Trim the model [→ 20]" and click on "Apply".

**Determine the height of the stand**

The height of the model can also be determined in this step. If the model is one with implant analogs, then select a larger stand height so that the analogs do not show from under the model.

1. Click the "Height" slider and press and hold the mouse button.
2. Now drag the slider to the right or left to enlarge or reduce the height.

**Tip:** The height of the stand can be adjusted separately for the upper jaw and lower jaw. The height of the stand can be adjusted for both jaws together using the "Link Upper Lower Model" checkbox.
Set base expansion for the model

The base expansion can also be set for the model.

1. Click the "Basis Expansion" slider and press and hold the mouse button.
2. Now drag the slider to the right or left to enlarge or reduce the expansion width at the base of the model.

**IMPORTANT**

Even if you do not wish to make any changes to the model in this step, you must still click the "Apply" button so that the model base is calculated and so that you can move to the next phase.

**Tip:** The base expansion can be adjusted separately for the upper jaw and lower jaw. The base expansion can be adjusted for both jaws together using the "Link Upper Lower Model" checkbox.
6.3 DESIGN phase

6.3.1 "Create stumps" step

You can open the page palette via the button in the right margin.

The preparation lines already drawn in the inLab SW software (the red lines) can be adopted.

➢ Click on the "Apply" button for this.

In the event that you have not yet created any preparation lines in the inLab SW software, you can do this with the "Create Stumps" tool (see "Create a stump [→ 21]").

The stumps appear dark once they have been calculated.

Set spacer for stumps

1. Click the "Spacer" slider and press and hold the mouse button.
2. Now drag the slider to the right or left to enlarge or reduce the gap between the stump and the model.

Create the undercut

1. Click on the "Create Ditch" button.
   - A checkmark appears on the button.
2. The checkmark disappears and the cut is disabled if you click on the button once again.

Tip: You can also create an undercut without making the stumps removable. For this disable the "Create Stumps" function, set the desired width of the undercut and click on "Apply".

Create a base crater

The openings on the base of the stump can be widened, thereby making it easier to remove the stumps from the model.

1. Click on the "Create Floor Crater" button.
   - A checkmark appears on the button.
2. The checkmark disappears and the base craters are removed if you click on the button once again.
Create an inspection window for proper insertion of the stump

1. Click on the "Create Control Window" button.
   - A checkmark appears on the button.
2. The checkmark disappears and the inspection window is removed if you click on the button once again.

Create an analog

The following conditions must be met in order to insert an implant analog in a model:
- the scanbody in the inLab SW software has been clicked in the MODEL phase in the "Click Scanbody Head" step,
- the implant position has been calculated.

This information is also sent when the inLab Model plug-in is launched.

The implant analogs are calculated based on the information from the inLab SW software.

Spacer for implant analogs

1. Click on the analog.
2. Click the "Spacer" slider and press and hold the mouse button.
3. Now drag the slider to the right or left to enlarge or reduce the gap between the stump and the model.

Select a different manufacturer

1. Click on the analog.
2. Click on the preferred manufacturer in the drop-down menu under "Analog".
3. Click "Create all Analogs" to confirm the change.

6.3.2 "Create gingival mask" step

You can create the removable gingival masks in this step (see "Create gingival masks [→ 22]").
**Edit gingival masks**

You can subsequently modify a gingival mask that has already been created.

1. Hover over the gingival mask with your cursor.
   - The cursor automatically changes to a crosshair.
2. Double click on the point of the preparation line on the gingival mask that you would like to modify.
3. Move the mouse in the direction in which you wish to modify the preparation line of the gingival mask.
4. Once the mouse has reached the desired point, click to fix the line.
5. Double-click the starting point to terminate the editing.

**Delete gingival masks**

1. Double-click on the gingival mask.
   - The gingival mask is enabled.
2. Click on the "Delete" button.
   - The gingival mask is deleted.
6.3.3 "Insert support strut" step

You can open the page palette via the button in the right margin. You can attach different support struts to the model in this step.

With the "Support Strut" tool you can place supports on the upper and lower jaw which you can use to place the models together in the occlusal position. Move the cursor to the desired position and double-click to add the support strut.

Circular connectors can be placed on the upper and lower jaw of the model with the "Dentsply Balljoint" tool. These connectors fit the model holders from Dentsply Sirona. Move the cursor to the desired position and double-click to add the support strut.
Bar-shaped connectors can be placed on the upper and lower jaw with the "Dentsply Bar Connector" tool. These connectors fit the model holders from Dentsply Sirona. Move the cursor to the desired position and double-click to add the support strut.

Click the "iTero Connector" button if you wish to apply a matching connector to the model for iTero model holders. The connector can be attached to the model in exactly the same way as the connectors that fit the Dentsply model holders.
Click the "3Shape Connector" button if you wish to apply a matching connector to the model for 3shape model holders. The connector can be attached to the model in exactly the same way as the connectors that fit the Dentsply model holders.

You can insert a connecting bar into the jaw with full jaw models using the "Add Bar" tool. Click the "Create Opposite Bar" button if you also wish to insert a connecting bar into the jaw on the opposite side. A checkmark appears on the button. The checkmark disappears and no bar is created on the opposite side if you click on the button once again.

Set the width of the bar

Complete the following steps to set the width of the bar:
1. Click the "Bar Width" slider and press and hold the mouse button.
2. Now drag the slider to the right or left to enlarge or reduce the width of the bar.
Set the height of the bar

Complete the following steps to set the height of the bar:
1. Click the "Bar Height" slider and press and hold the mouse button.
2. Now drag the slider to the right or left to enlarge or reduce the height of the bar.

Simply clicking once on a bar already inserted disables this bar. You can now subsequently modify the thickness and height of the bar or delete the bar once again.

Further model supports / connectors can be fixed to a bar attached to the model.

Edit the support strut and connector

1. Click on the required element.
   - The element is activated (green).
2. You can move or rotate the element via the arrows.
3. Click in the main window to confirm the changes.
6.4 FINALIZING phase

6.4.1 Finalizing step

With the “Form” function, you can do the following to material:
- apply
- smooth
- remove

The size and thickness of the area affected can be set individually.

The model can be hollowed out in this step with the “Carve Out Model” tool.

You can also apply text to the model so that you can assign the finished models correctly to a patient. The text is applied by clicking at the desired point (see “Edit text [→ 25]”).

Export

You have various options for exporting the model as a STL file using the “Export” function (see “Export tool [→ 25]”).
## 7 Shortcut keys

<table>
<thead>
<tr>
<th>Shortcut keys</th>
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<th>Meaning</th>
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<tr>
<td>Ctrl + O</td>
<td>In every phase</td>
<td>Open</td>
</tr>
<tr>
<td>Ctrl + S</td>
<td>Case loaded</td>
<td>Save</td>
</tr>
<tr>
<td>Ctrl + Shift key + S</td>
<td>Case loaded</td>
<td>Save as</td>
</tr>
<tr>
<td>Ctrl + X, Z</td>
<td>Case loaded</td>
<td>Undo</td>
</tr>
<tr>
<td>Ctrl + Y</td>
<td>Case loaded</td>
<td>Redo</td>
</tr>
<tr>
<td>F1</td>
<td>In every phase</td>
<td>Opens the Help section.</td>
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We reserve the right to make any alterations which may be required due to technical improvements.