
New as of: 03.2022



inLab Partial Framework

Software Version 22.0.x

Operator's Manual

English

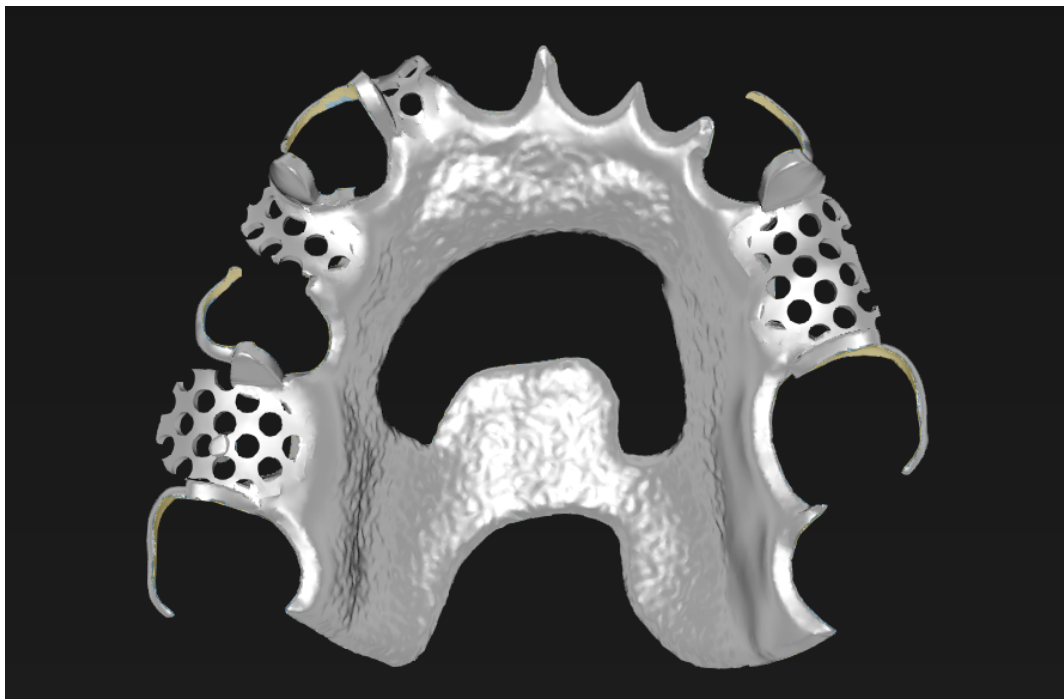


Table of contents

1	Introduction	5
1.1	Dear Customer,.....	5
1.2	Copyright and trademark.....	5
2	General data	6
2.1	General safety information	6
2.2	Structure of the manual.....	7
2.2.1	Identification of danger levels.....	7
2.2.2	Formats and symbols used	7
2.2.3	Conventions	8
2.2.4	Open help information	8
2.2.5	File format	8
3	Getting started.....	9
3.1	Installing the software	9
3.2	Uninstalling the software	10
3.3	Copy protection.....	10
3.4	Starting the software	11
4	User interface.....	12
4.1	Phase bar.....	13
4.1.1	PREPARE	13
4.1.2	DESIGN.....	13
4.1.3	FINALIZE.....	13
4.2	Context menu.....	14
4.3	Step menu.....	14
4.4	System menu	15
4.4.1	Save case.....	15
4.4.2	Save the case under a different name	16
4.4.3	License manager.....	16
4.4.4	Configuration	16
4.4.5	Window mode.....	16
4.4.6	Exit program	16
5	Configuration.....	17
5.1	Settings	17
5.1.1	Warning messages.....	17
5.1.2	Language	17

6	Construction elements	18
6.1	Linear elements.....	18
6.2	Laminar elements.....	19
6.3	Additional elements.....	20
7	Editing orders	21
7.1	Tools and functions of the page palette	21
7.1.1	Views.....	21
7.1.2	Tools.....	21
7.1.2.1	Form	22
7.1.2.2	"Wax plate" tool	23
7.1.2.3	Editing lines	24
7.1.2.4	Editing profile	24
7.1.2.5	Adding material.....	25
7.1.2.6	Adding a grain.....	25
7.1.2.7	Adding a support pipe.....	26
7.1.2.8	Repair tool	26
7.1.3	Display objects	26
7.1.4	Analysis tools	27
7.1.4.1	Displaying rear sections.....	27
7.1.4.2	Material thickness	27
7.2	Scanning jaws in the inLab CAD SW	28
7.3	Starting inLab Partial Framework.....	29
7.4	PREPARE phase	30
7.4.1	Set model axis.....	30
7.4.2	Selecting insertion axis.....	31
7.4.3	Shaping the wax.....	33
7.4.4	Biogeneric Copy	34
7.5	DESIGN phase.....	35
7.5.1	Set clasps.....	35
7.5.2	Retention band	37
7.5.3	Clasp Bar.....	38
7.5.4	Setting the closing edge	39
7.5.5	Retention plate	41
7.5.6	Palate plate	42
7.5.7	Lingual bow	43
7.5.8	Connector.....	44
7.5.9	Rest.....	45
7.5.10	Back protection plate.....	46
7.5.11	Open end stop.....	47
7.5.12	Retainer pin	48

7.6	FINALIZE phase.....	50
7.6.1	Shaping	50
7.6.2	Adding material	50
7.6.3	Adding support pipes.....	50
7.6.4	Exporting the model casting	51
8	Tips and Tricks.....	52
8.1	Shortcut keys	52
	Index	54

1 Introduction

1.1 Dear Customer,

Thank you for purchasing your inLab Partial Framework software from Sirona.

When combined with the scanner inEos X5, this software enables you to record models and construct model castings.

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 to command the software safely.

To prevent personal injury or material damage, it is important to observe all safety information.

Your
inLab 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.

Trademarks Microsoft[®], Windows 7[®], and Windows 10[®] are registered trademarks.

Windows[™] is a trademark of Microsoft Corporation.

All other trademarks are the property of their respective holders.

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

Restricting data access

To restrict data access, set up a suitable user management system for your practice. You can use the functionalities of the Microsoft Windows 10 operating system for this. For instructions and support, go to support.microsoft.com / *"Create a local user or administrator account in Windows 10"*.

Only use original software

Only use original software or software which has been released by Dentsply Sirona. To produce restorations and equipment, 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.

Restoration to be checked by trained personnel

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

For the USA only

CAUTION: According to US Federal Law, this product may be sold only to or by instruction of physicians, dentists, or licensed professionals.

2.2 Structure of the manual

2.2.1 Identification of 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:

DANGER

An imminent danger that could result in serious bodily injury or death.

WARNING

A possibly dangerous situation that could result in serious bodily injury or death.

CAUTION

A possibly dangerous situation that could result in minor or moderate bodily injury.

NOTE

A possibly harmful situation which could lead to damage of the product or an object in its environment.

IMPORTANT

Application instructions and other important information.

Tip: Information on making work easier.

2.2.2 Formats and symbols used

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

<ul style="list-style-type: none"> ✓ Prerequisite 1. First action step 2. Second action step or > Alternative action ↔ Result > Individual action step 	Requests you to do something.
See "Formats and symbols used [→ 7]"	Identifies a reference to another text passage and specifies its page number.
• List	Designates a list.
"Command / menu item"	Indicates commands / menu items or quotations.

2.2.3 Conventions

Example	Meaning
Click	Clicking and releasing of the left mouse button once.
Double-click	Clicking and releasing of the left mouse button twice in quick succession.
Move the mouse in one direction	Moving the mouse in the described direction.
Grab point	Press the left mouse button and hold it down.
"Ctrl+N"	On the keyboard: Press the Ctrl and N keys simultaneously.
Drag & drop	Dragging and dropping. Clicking on an element (e.g. icon), holding down the mouse button and releasing it on a possible destination.

2.2.4 Open help information

You can access the manual via the Dentsply Sirona home page.

2.2.5 File format

Depending on the status of processing, an order consists of calculated virtual models and a model casting.

The software uses its own file format (*.pf) to export an order. This format contains all of the order data. PF files can be opened with other inLab Partial Framework installations. 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. For more information, refer to the "License manager [→ 16]" section.

You need at least one inLab-PC V 5.0.1 for the software. The latest inLab PC version is always recommended.

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

NOTE

An inLab CAD SW version 22.1.x or higher is required for installation of the inLab Partial Framework app.

For installation on a CEREC AC, a CEREC SW version 5.2.x or higher is required.

- ✓ 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 Partial Framework 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.
 2. In the next dialog, click the "Next" button.
 - ↳ The license agreement is shown.
 3. Read through 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 software version inLab Partial Framework 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.

3.2 Uninstalling the software

- ✓ The program is closed.
- 1. Click on "Start / All Programs / Sirona Dental Systems / inLab Partial Framework / 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.

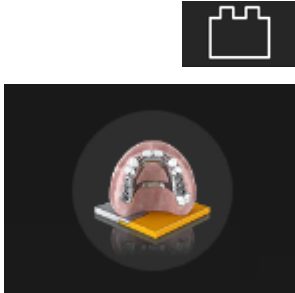
All authorizations (software licenses) can be installed as electronic licenses on the USB license stick. You must enter a 25-digit license key for this purpose.

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 [→ 16].

3.4 Starting the software

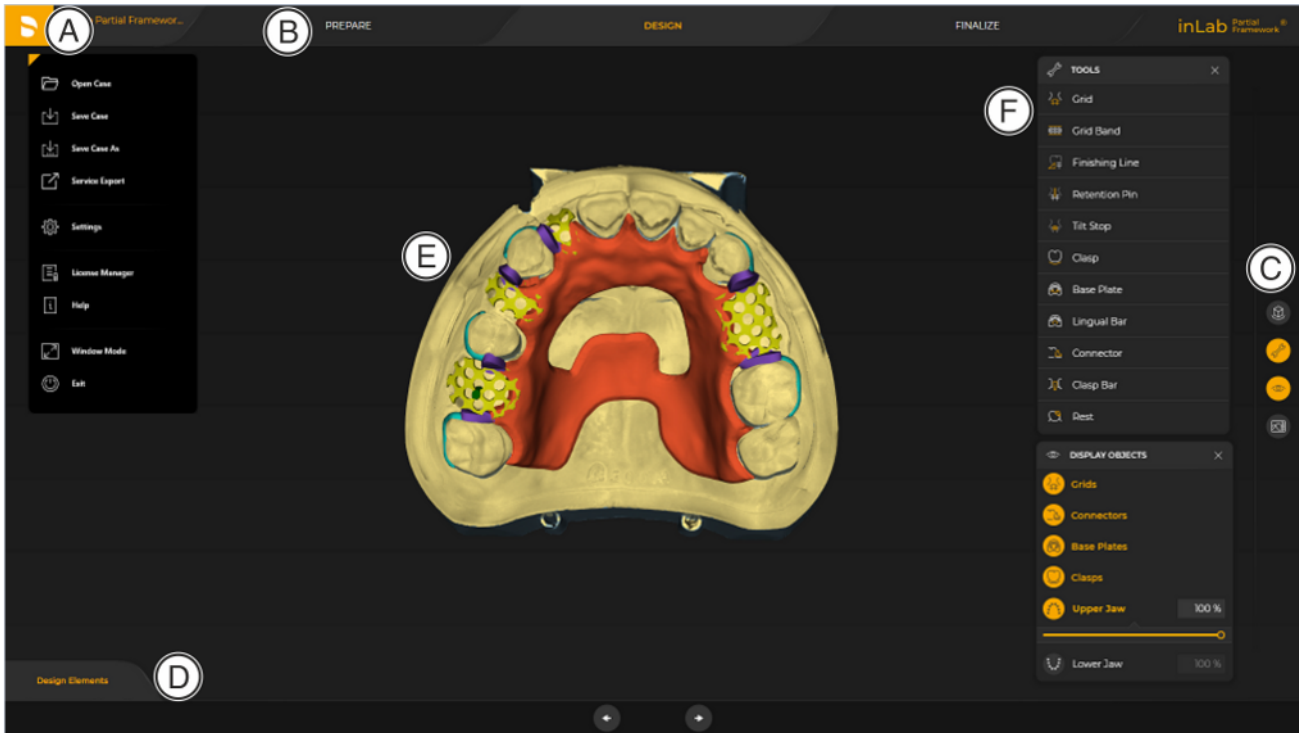
- ✓ The inLab CAD SW is installed. The start icon can be found on the desktop.
 - ✓ The USB license stick containing a valid, current license has been inserted.
 - ✓ You are in the MODEL phase in the inLab CAD SW and a 3D model is already calculated.
1. Open the inLab CAD SW.
 2. Click the *"Run Application..."* button in the inLab CAD SW system menu.
 3. Then click on the *"Partial Framework"* button.
 - ↳ The software is started.



Alternative start options

- ✓ The inLab Partial Framework software is installed. You will find the start icon of the inLab Partial Framework software on the desktop.
 - > Double-click on the start icon of the inLab Partial Framework software.
- or
- > Select *"Start" / "All Programs" / "Partial Framework" / "Partial Framework"* in the Windows Start menu.

4 User interface



Overview of the user interface

A	System menu	D	Step menu
B	Phase bar	E	Main window
C	Side panel	F	Context menu

4.1 Phase bar

The workflow is illustrated in the software in 3 phases.

PREPARE

DESIGN

FINALIZE

Phase bar

- PREPARE
- DESIGN
- FINALIZE

4.1.1 PREPARE

In this phase, you can do the following:

- Evaluate model
- Align model
- Define insertion direction
- Edit blockout wax.

4.1.2 DESIGN

In this phase you can perform the following:

- Design elements of a model casting prosthesis,
- Position the elements

4.1.3 FINALIZE

In this phase you can perform the following:

- Elements are fused,
- Shape and process prosthesis,
- Apply material,
- Attach support pipes,
- Measure material thickness.

4.2 Context menu

In the PREPARE and FINALIZE phases, the context menu provides the most common tools for simplifying access. In the DESIGN phase, all the construction elements that can be used for designing a model casting prosthesis are located in the context menu.

1. Right-click in the workspace.
 - ↳ The context menu opens.
2. Click with the right mouse button anywhere in the workspace.
 - ↳ The context menu moves to the position of the mouse pointer.
3. Select a tool/design element.
 - ↳ The selected tool is available. The context menu closes automatically.

You also can close the tool by clicking in the workspace with the left mouse button.

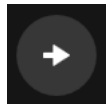
4.3 Step menu

Each phase is divided into steps. They are shown in the step menu at the bottom edge of the screen. The step menu changes depending on which phase the current case is in.

This menu guides you through the process step-by-step. All obligatory steps of a phase are performed automatically or manually. Changes in the individual steps are accepted by clicking on the next step.

You can switch between phases with the Continue arrow.

Certain steps must be confirmed with a "Ok" or can be interrupted.



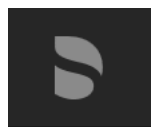
4.4 System menu



In the system menu, you can:

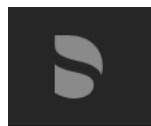
- Open a case,
- Save a case,
- Save a case under a different name,
- Service Export,
- Configure the software
- Open license manager
- Change the window mode
- Close the software

Opening system menu



- > Move the mouse pointer onto the system menu button.
- or
- > Click on the system menu button.
- ↳ The system menu is displayed.

Closing system menu



- > Click on the system menu button.
- or
- > Click into the main window with the left mouse button.
- ↳ The system menu is closed.

4.4.1 Save case



In this dialog, you can save the actual case.

- > Select "Save Case" in the system menu.
- ↳ The current processing status of the case is saved.

4.4.2 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.

4.4.3 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 SystemsinLab Partial FrameworkToolsLicense Manager".

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

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".

4.4.4 Configuration



The configuration is described in the section "Configuration".

4.4.5 Window mode



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

4.4.6 Exit program



The "*Exit*" function can be used to close the software.

5 Configuration

5.1 Settings

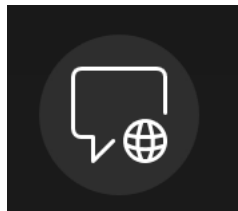
5.1.1 Warning messages



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 once again by clicking the *"Reset"* button.

Setting	Description
YES	Displays all the deactivated warnings in the workflow again.
NO	Warnings that were previously hidden remain hidden.

5.1.2 Language

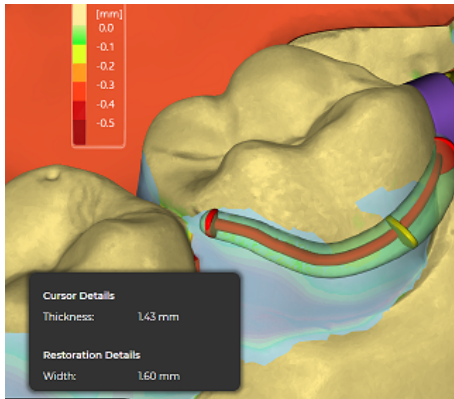


Here you can set the language of the software.

From software version inLab Partial Framework 19.x a restart is no longer required in order to switch language.

6 Construction elements

6.1 Linear elements



Linear elements are created using an open line on the jaw.


1. Begin the line with a double-click.
2. Insert additional points in between by clicking on the left mouse button.
3. Set the line end by double-clicking.
 - ↳ After entry, the element is created with standard profile settings.
4. You have the option of editing both the line itself and also the profile along the line. Here you can switch between the various editing modes using the space bar.








The following elements are designed in the inLab Partial Framework software as linear elements.

Symbol	Description
	<p>Clasp</p> <p>There are different types for selection</p> <ul style="list-style-type: none"> • Premolar • Molar • Ring
	<p>Ring Retention</p> <p>The following different types are available for selection:</p> <ul style="list-style-type: none"> • Regular Donut • Wave Donut • Zig Zag
	Clasp bar
	Closing edge

6.2 Laminar elements


Flat elements are defined by a closed line.

1. Begin the line with a double-click.
2. Insert additional points in between by clicking on the left mouse button.
3. Set the line end by double-clicking on the starting point.
 The laminar element is calculated within the line.
4. You have the option of editing both the line itself and also the profile along the line. Here you can switch between the various editing modes using the space bar.

Symbol	Description
	Retention plate There are different types for selection <ul style="list-style-type: none"> • with round holes • with square holes
	Palate plate
	Lingual bow
	Connector
	Rest
	Back protection plate <ul style="list-style-type: none"> • Is only displayed if a biogeneric copy has been scanned as well.
	Open end stop

6.3 Additional elements

In addition to elements that have been created using line entries, there are other elements that are created with other entries.

Symbol	Description
 The symbol for a retainer pin, featuring a yellow paperclip-like shape with a vertical stem, positioned above a white crosshair symbol on a black background.	Retainer pin

7 Editing orders

The Shortcut keys [→ 52] chapter describes how the following tools and options can be called using shortcut keys.

7.1 Tools and functions of the page palette

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

7.1.1 Views

"View Options"

You can use the *"View Options"* button to display six predefined views.

- *"Top"*
- *"Bottom"*
- *"Right"*
- *"Left"*
- *"Front"*
- *"Back side"*

Changing the view

1. Click on the *"View Options"* button.
2. Click on one of the proposed views.
 - ↳ The virtual model rotates to the corresponding view.

7.1.2 Tools

The most important tools are also offered to you in the context menu. The construction elements for the model casting are located in the DESIGN phase under Tools.

"Undo"* and *"Reset"

With the *"Undo"* button in the tools you can undo all changes made on the selected restorations since the tool was started.

With the *"Reset"* button in the tools you can undo all changes made on all restorations since the tool was started.

7.1.2.1 Form

With the *"Form"* tool you can process the blocking-out wax in the PREPARE phase and process the model casting in the FINALIZE phase.



With the *"Form"* function, you can do the following to material

- apply
- remove
- Smoothen

You can enter the *"Size"* and *"Strength"* properties with a slider or numerically in advance (see *"Properties"*).

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.

7.1.2.1.1 Properties

Modifying 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 restoration in the 3D preview.

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) will be expanded or reduced in the 3D preview.

Tip: You can also change the size of the area affected by dragging the mouse up or down with the right mouse button held down on the restoration.

Modifying strength

You can use the "Strength" slider to modify the intensity of the area affected. The strength of the affected area can be modified for each shaping tool.

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

7.1.2.2 "Wax plate" tool



You can use the "Reline" tool to cover a marked area with blockout material.

1. Click on the "Reline" button.
2. Use the "Height" parameter to set the height of the material to be applied.
3. Use the "Smooth" parameter to define whether the edges of the wax application are to be sharp or rounded. This allows you to define the transition between model and material.
4. You can select the area by double-clicking and dragging a line to form an enclosed area.

"Undo" and "Reset"

With the "Undo" button in the tools you can undo all changes made on the selected restorations since the tool was started.

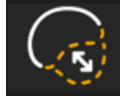
With the "Reset" button in the tools you can undo all changes made on all restorations since the tool was started.

7.1.2.3 Editing lines

Drag Line

You can change the lines of the elements with *"Drag Line"*.

1. Click on the *"Edit Lines"* button.
2. Click on the *"Drag Line"* button.
3. Select the active area (the yellow part) of the line by holding down the right mouse button and dragging the mouse up and down.
4. Drag the line by moving the mouse to the desired point.



Edit Line

You can redraw the lines of a connector with *"Edit Line"*.

1. Click on the *"Edit Lines"* button.
2. Click on the *"Edit Line"* button.
3. Redraw the lines at the desired points by starting with a double-click, setting points with left-clicks, and ending the line by double-clicking.

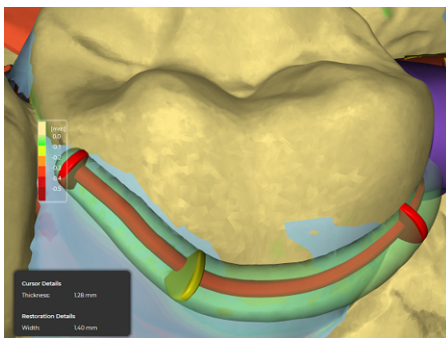


7.1.2.4 Editing profile

You can edit the profile of clasp and clasp bars with *"Edit Profile"*.

✓ You have selected a clasp or clasp bar.

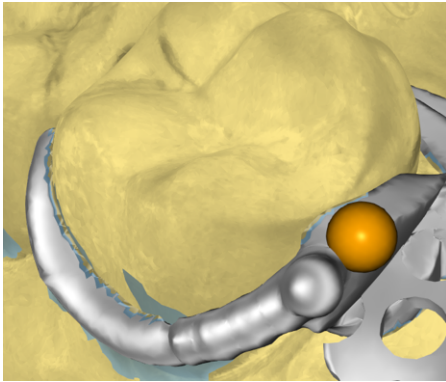
1. Click on *"Edit Profile"* in the side palette.
2. Move the mouse over the element.
 - ↳ A new profile disk is displayed.
3. Click to set a new profile disk.
4. Hold down the left mouse button and drag the mouse up or down to adjust the thickness of the profile.
5. Hold down the right mouse button and drag the mouse up or down to adjust the width of the profile.



7.1.2.5 Adding material

You can add material to the model casting using this tool in phase FINALIZE.

1. Click on the *"Add Material"* button.
2. By holding down the right mouse button and dragging the mouse up and down, you can adjust the size of the ball.
3. Add material by double-clicking.



Tip: The melting parameter can be used to set how strongly the drop should melt with the model casting.

7.1.2.6 Adding a grain



You can add a grain to the model casting using this tool in phase FINALIZE.

1. Click on the *"Surface pattern"* button.
2. Click with the mouse cursor on the area you wish to add a grain.
3. Press and hold the left mouse button and smoothen the surface location by moving the mouse.
 - ↳ The area becomes orange colored.
4. Click on *"Apply"* to add the grain.

Modifying the size

You can use the *"Size"* button to modify the size of the area affected. The area affected is shown as an orange colored area. The size of the area affected can be modified for each shaping tool.

1. Click on the *"Surface pattern"* button.
2. Click the *"Size"* button and press and hold the mouse button.
3. Drag the mouse cursor up or down.
 - ↳ The size of the orange area is enlarged or reduced. The size is shown on the restoration.

Tip: You can also change the size by clicking on the restoration with the right mouse button and, while holding the right mouse button down, dragging the mouse up or down.

7.1.2.7 Adding a support pipe



For certain production processes it is necessary to strengthen the model casting using support pipes. You can attach support pipes to the desired points using this tool in phase FINALIZE.

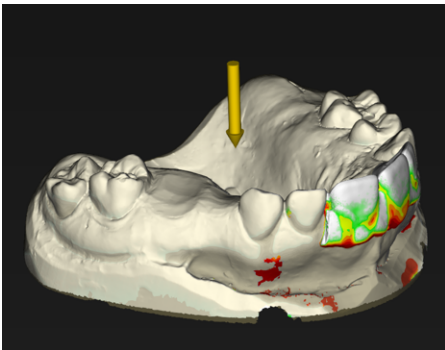
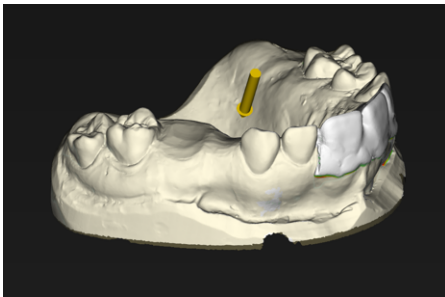
1. Click on the *"Support Tube"* button.
2. Start the process by double-clicking on the desired point.
3. Guide the mouse toward the end point of the pipes.
4. To complete the pipes double-click on the desired end point of the pipes.

Adjusting the size

By holding down the right mouse button and dragging the mouse up and down, you can adjust the diameter of the pipes.

7.1.2.8 Repair tool

1. Scan the broken model casting in the inLab CAD SW in the *"Upper Jaw"* or *"Lower Jaw"* image catalog.
2. Then scan the model without the model casting in the image catalog *"Biocopy Model"*.
3. Allow the models to be calculated and transmit this to the inLab Partial Framework.
4. Click on the *"Insertion Axis"* step on *"Repair Mode"* and displayed will be where indentations currently exist between the scanned models based on the selected insertion axis.



5. The complete indentation areas are masked in dark gray. You can now unmask the points with the tool, which interest you in relation to generating the repair and then reset the insertion axis, if desired.

Tip: You can increase/decrease the area of effectiveness of the tool using the right mouse key.

7.1.3 Display objects

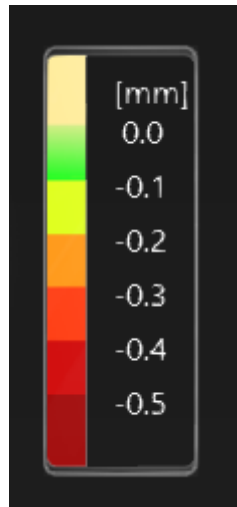
The individual elements of the model casting or the jaw can be displayed or hidden in phases DESIGN and FINALIZE.

7.1.4 Analysis tools

7.1.4.1 Displaying rear sections

The color scheme for the rear sections can be displayed or hidden on the model via the "Undercut" button.

1. Click on the "Analyzing Tools" button.
2. Click on the "Undercut" button.
 - ↳ The color scheme is displayed on the model.



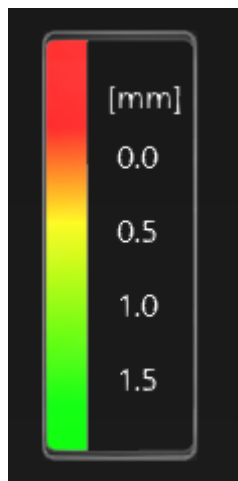
The rear section depth can be read using the legend. The start of the rear section is marked with a light blue line.

7.1.4.2 Material thickness

The model casting material thickness can be assessed using a color scheme via the "Check Thickness" button.

The two blue balls on both sides show the measurement direction.

1. Click on the "Analyzing Tools" button.
2. Click on the "Check Thickness" button.
 - ↳ The color scheme is displayed on the model casting.



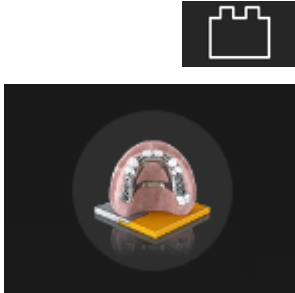
The material thickness can be read using the legend.

7.2 Scanning jaws in the inLab CAD SW

1. Scan the model with the inEos X5 in the inLab CAD SW and have the model calculated (see also inLab CAD SW, Operator's manual).
2. A *"Biocopy Model"* through the copy image fields can also be scanned which can then later be used in the inLab Partial Framework software for the construction. This can still be aligned in the MODEL phase. The alignment is then adopted directly into the inLab Partial Framework software.
3. If a restoration with the repair tool (*"Repair Mode"*) should be processed, the jaw including the broken model casting must be scanned in the image catalog *"Upper Jaw" / "Lower Jaw"* and the model without the model casting in the corresponding image catalog *"Biocopy Model"*.

7.3 Starting inLab Partial Framework

- ✓ The inLab CAD SW is installed. The start icon can be found on the desktop.
 - ✓ The USB license stick containing a valid, current license has been inserted.
 - ✓ You are in the MODEL phase in the inLab CAD SW and a 3D model is already calculated.
1. Open the inLab CAD SW.
 2. Click the *"Run Application..."* button in the inLab CAD SW system menu.
 3. Then click on the *"Partial Framework"* button.
 - ↳ The software is started.



Alternative start options

- ✓ The inLab Partial Framework software is installed. You will find the start icon of the inLab Partial Framework software on the desktop.
 - > Double-click on the start icon of the inLab Partial Framework software.
- or
- > Select *"Start" / "All Programs" / "Partial Framework" / "Partial Framework"* in the Windows Start menu.

The scanned model is loaded into the inLab Partial Framework software. If a biogeneric copy has been scanned, this is also loaded into the inLab Partial Framework software.

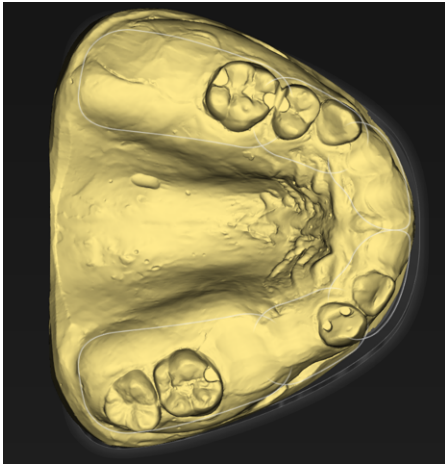
7.4 PREPARE phase

7.4.1 Set model axis

Set the axes for model alignment. Please ensure a consistent representation here.

This alignment is required to create optimal view options and initial suggestions.

- > Align the model to the orientation of the jaw. Each tooth must be in its respective quadrant.



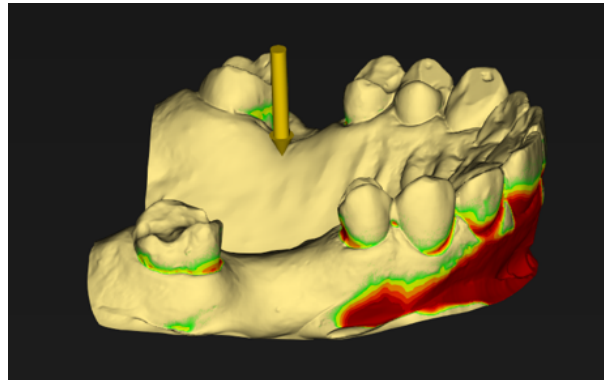
IMPORTANT

If the model axis has already been defined in the inLab CAD SW, it is adopted into the inLab Partial Framework software.

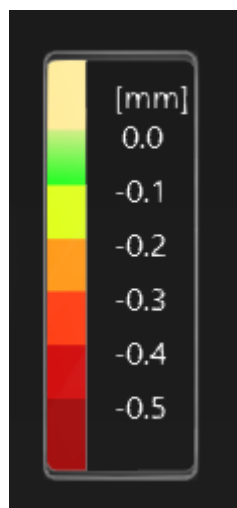
7.4.2 Selecting insertion axis

Normal Mode

Tip: When setting the insertion axis, the blocking-out wax is displayed in light blue.



1. Select the insertion axis for how you want to block out the jaw. To do this pull on the ball in the target disk or move the yellow arrow over the model.
2. Confirm the selected insertion axis by clicking "Ok".



The "Set Insertion Axis" tool allows you to set the axis for blocking out the jaw. The rear section depth can be assessed using the color gradient. The color changes every 0.1 mm.

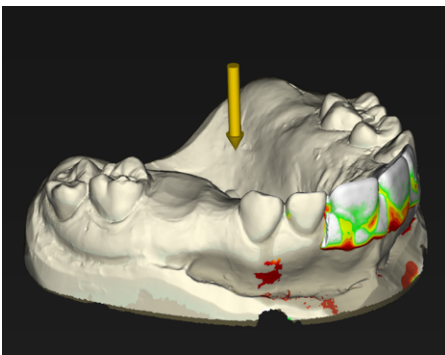
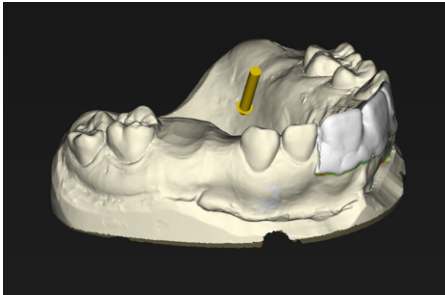
A block-out angle can be set as an additional parameter for blocking out the jaw.

In order to modify the angle, hold down the left mouse button and drag the mouse up or down.



Repair Mode

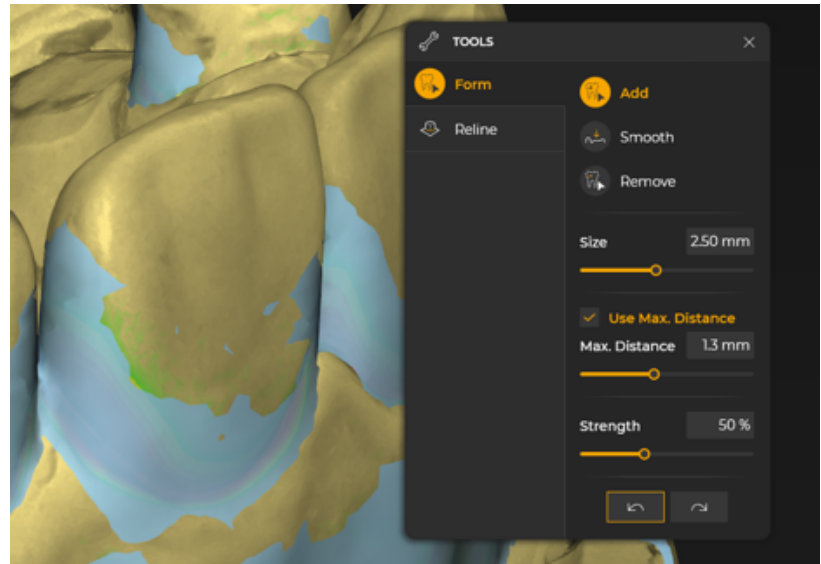
1. Scan the broken model casting in the inLab CAD SW in the "Upper Jaw" or "Lower Jaw" image catalog.
2. Then scan the model without the model casting in the image catalog "Biocopy Model".
3. Allow the models to be calculated and transmit this to the inLab Partial Framework.
4. Click on the "Insertion Axis" step on "Repair Mode" and displayed will be where indentations currently exist between the scanned models based on the selected insertion axis.



5. The complete indentation areas are masked in dark gray. You can now unmask the points with the tool, which interest you in relation to generating the repair and then reset the insertion axis, if desired.

Tip: You can increase/decrease the area of effectiveness of the tool using the right mouse key.

7.4.3 Shaping the wax



You can process the blocking-out wax using the "Form" tool.

You can remove, add, or smoothen the wax.

For applying wax, you can use the "Use Max. Distance" option to set how much wax you wish to apply. Use the slider control to set to which height the wax should be applied.

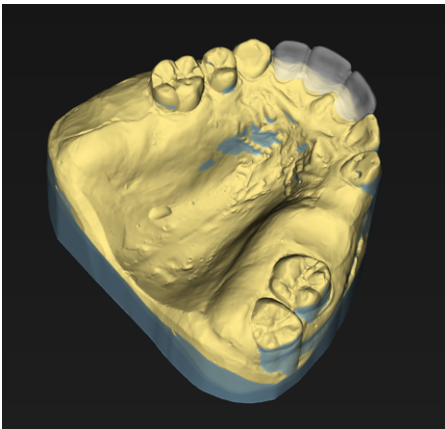
The "Reline" tool can be used to apply wax at a defined height by drawing a flat line.

7.4.4 Biogeneric Copy

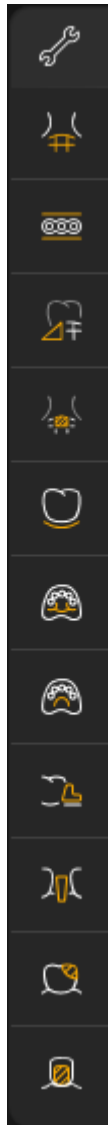
If a biogeneric copy has been scanned in the inLab CAD SW, it is loaded together with the model into the inLab Partial Framework software.

Adding a biogeneric copy retrospectively

- ✓ The case must be open in the inLab Partial Framework software.
- 1. Open the case in the inLab CAD SW and go to the SCAN phase. Add the image catalog "*BioCopy Upper*" or "*BioCopy Lower*" and scan the model including the wax-up.
- 2. Allow the model to be calculated.
- 3. Restart the inLab Partial Framework software after the model calculation.
- 4. The "*Auto Align*" tool is provided to correctly display the biogeneric copy on the active jaw.
- 5. If a biogeneric copy has been imported with the inLab Partial Framework software, back protection and bite plates can be designed in subsequent steps. The "*Backing Plate*" button is only displayed if a biogeneric copy is available.



7.5 DESIGN phase



- > Select the elements from the side palette.
- or
- > Select the elements by right-clicking in the main window via the context menu.

7.5.1 Set clasps



1. Select "*Clasp*" from the side palette or the context menu.
2. Select the type of clasp you want to use.
3. You must also observe the notes in the section Linear elements [→ 18]".

Changing the clasp path



1. Click on the "Edit Lines" button.
2. Click on the "Drag Line" button.
3. Select the active area (the yellow part) of the line by holding down the right mouse button and dragging the mouse up and down.
4. Drag the line by moving the mouse to the desired point.

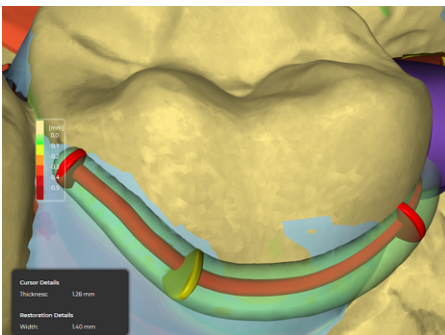


1. Click on the "Edit Lines" button.
2. Click on the "Edit Line" button.
3. Redraw the lines at the desired points by starting with a double-click, setting points with left-clicks, and ending the line by double-clicking.

Adjusting/editing the clasp profile



- ✓ You have selected a clasp.
1. Click on "Edit Profile" in the side palette.
 2. Move the mouse over the element.
 - ↳ A new profile disk is displayed.
 3. Click to set a new profile disk.
 4. Hold down the left mouse button and drag the mouse up or down to adjust the thickness of the profile.
 5. Hold down the right mouse button and drag the mouse up or down to adjust the width of the profile.



Reversing the clasp profile

- > Click on the "Flip Direction" button in the side palette.
 - ↳ The clasp profile is reversed.

Adding a clasp

- > Select "Add Clasp" to set an additional clasp.

Alternatively, you can also click on the "Clasp" button with the CTRL button pressed and insert a new element.

Tip: You can also draw a clasp in several segments around the tooth. To do this, start on one side of the tooth then guide the clasp around the tooth as far as you like and close it with a double-click. Then select "Add Clasp", start from the other side, and guide this clasp to the end point of the first one. Both elements are fused into one clasp in phase FINALIZE.

7.5.2 Retention band



1. Select "*Ring Retention*" from the side palette or the context menu.
2. Select the type of band you want to use.
3. You must also observe the notes in the section "*Linear elements* [[→ 18](#)]".

Changing the clasp path



1. Click on the "*Edit Lines*" button.
2. Click on the "*Drag Line*" button.
3. Select the active area (the yellow part) of the line by holding down the right mouse button and dragging the mouse up and down.
4. Drag the line by moving the mouse to the desired point.



1. Click on the "*Edit Lines*" button.
2. Click on the "*Edit Line*" button.
3. Redraw the lines at the desired points by starting with a double-click, setting points with left-clicks, and ending the line by double-clicking.

Adjusting the band version

1. You have selected a "*Ring Retention*".
2. Click on the desired version on the side palette.
3. Click on "*Apply*".

Adding Ring Retention

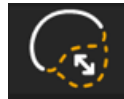
1. Select "*Add Ring Retention*" to set an additional retention band.
2. Alternatively, you can also click on the "*Ring Retention*" button with the Ctrl button pressed and insert a new element.

7.5.3 Clasp Bar



1. Select "*Clasp Bar*" from the side palette or the context menu.
2. Select the desired diameter of the clasp bar using the "*Diameter*" slide controller in the side palette.
3. Select the desired relief (gap) using the "*Inclination*" slide controller in the side palette.
4. You must also observe the notes in the section Linear elements [→ 18]".

Changing the clasp bar



1. Click on the "*Edit Lines*" button.
2. Click on the "*Drag Line*" button.
3. Select the active area (the yellow part) of the line by holding down the right mouse button and dragging the mouse up and down.
4. Drag the line by moving the mouse to the desired point.



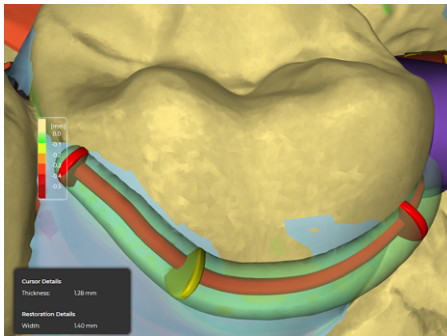
1. Click on the "*Edit Lines*" button.
2. Click on the "*Edit Line*" button.
3. Redraw the lines at the desired points by starting with a double-click, setting points with left-clicks, and ending the line by double-clicking.

Adjusting the clasp bar

✓ You have selected a clasp.



1. Click on "*Edit Profile*" in the side palette.
2. Move the mouse over the element.
 - ☞ A new profile disk is displayed.
3. Click to set a new profile disk.
4. Hold down the left mouse button and drag the mouse up or down to adjust the thickness of the profile.
5. Hold down the right mouse button and drag the mouse up or down to adjust the width of the profile.



Adding a clasp bar

➤ Select "*Add Clasp Bar*" to set an additional clasp bar.

Alternatively, you can also click on the "*Clasp Bar*" button with the CTRL button pressed and insert a new element.

7.5.4 Setting the closing edge



1. Select "*Finishing Line*" from the side palette or the context menu.
2. Select the desired closing edge height using the "*Height*" slide controller in the side palette.
3. You must also observe the notes in the section Linear elements [→ 18].

Changing the closing edge



1. Click on the "*Edit Lines*" button.
2. Click on the "*Drag Line*" button.
3. Select the active area (the yellow part) of the line by holding down the right mouse button and dragging the mouse up and down.
4. Drag the line by moving the mouse to the desired point.

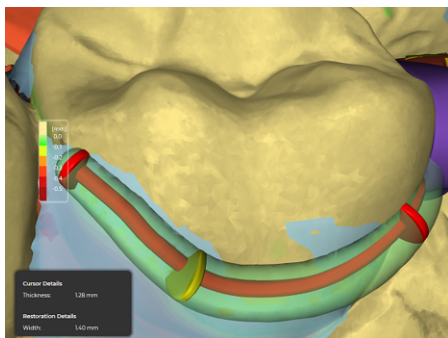


1. Click on the "*Edit Lines*" button.
2. Click on the "*Edit Line*" button.
3. Redraw the lines at the desired points by starting with a double-click, setting points with left-clicks, and ending the line by double-clicking.

Adjusting the closing edge



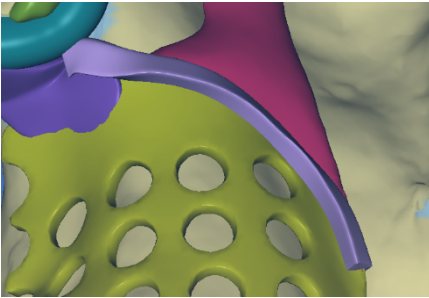
- ✓ You have selected a clasp.
1. Click on "*Edit Profile*" in the side palette.
 2. Move the mouse over the element.
 - ↳ A new profile disk is displayed.
 3. Click to set a new profile disk.
 4. Hold down the left mouse button and drag the mouse up or down to adjust the thickness of the profile.
 5. Hold down the right mouse button and drag the mouse up or down to adjust the width of the profile.



Adding a closing edge

- > Select *"Add Finishing Line"* to set an additional closing edge.

Alternatively, you can also click on the *"Finishing Line"* button with the CTRL button pressed and insert a new element.



IMPORTANT

The closing edge can be constructed on retention plates, palate plates, connectors, or lingual bows.

7.5.5 Retention plate



1. Select "*Grid*" from the side palette or the context menu.
2. Select the desired retention plate thickness using the "*Thickness*" slide controller in the side palette.
3. Select the desired relief (gap) of the retention plate for the jaw using the "*Inclination*" slide controller in the side palette.
4. You must also observe the notes in the section "Laminar elements [→ 19]".

Changing the shape of the retention plate



1. Click on the "*Edit Lines*" button.
2. Click on the "*Drag Line*" button.
3. Select the active area (the yellow part) of the line by holding down the right mouse button and dragging the mouse up and down.
4. Drag the line by moving the mouse to the desired point.



1. Click on the "*Edit Lines*" button.
2. Click on the "*Edit Line*" button.
3. Redraw the lines at the desired points by starting with a double-click, setting points with left-clicks, and ending the line by double-clicking.

Changing the shape of the hole

- > Select "*Square Holes*" in the side palette to obtain square holes.

Adding a retention plate

- > Select "*Add Grid*" to set an additional retention plate.

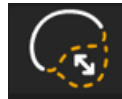
Alternatively, you can also click on the "*Grid*" button with the CTRL button pressed and insert a new element.

7.5.6 Palate plate



1. Select "*Base Plate*" from the side palette or the context menu.
2. Select the desired palate plate thickness using the "*Thickness*" slide controller in the side palette.
3. Select the desired relief (gap) of the palate plate for the jaw using the "*Inclination*" slide controller in the side palette.
4. You must also observe the notes in the section "Laminar elements [→ 19]".

Modify palate plate shape



1. Click on the "*Edit Lines*" button.
2. Click on the "*Drag Line*" button.
3. Select the active area (the yellow part) of the line by holding down the right mouse button and dragging the mouse up and down.
4. Drag the line by moving the mouse to the desired point.



1. Click on the "*Edit Lines*" button.
2. Click on the "*Edit Line*" button.
3. Redraw the lines at the desired points by starting with a double-click, setting points with left-clicks, and ending the line by double-clicking.

Create a palate plate with a hole

1. Draw the desired palate plate.
2. Select "*Display Objects*" in the side palette and click "*Base Plate*".
 - ✎ The palate plate is hidden. Only the line of the palate plate is visible.
3. Select "*Tools*" in the side palette or "*Base Plate*" via the context menu.
4. Inside the first palate plate draw an additional palate plate in the shape of the hole desired.

Tip: You can draw as many holes in a palate plate as you wish by repeating the procedure described above.

Add a palate plate

- > Select "*Add Base Plate*" to set an additional palate plate.

Alternatively, you can also click on the "*Base Plate*" button with the CTRL button pressed and insert a new element.

7.5.7 Lingual bow



1. Select "*Lingual Bar*" from the side palette or the context menu.
2. Select the desired lingual bow thickness using the "*Thickness*" slide controller in the side palette.
3. Select the desired relief (gap) of the lingual bow for the jaw using the "*Inclination*" slide controller in the side palette.
4. You must also observe the notes in the section "Laminar elements [→ 19]".

Changing the shape of the lingual bow



1. Click on the "*Edit Lines*" button.
2. Click on the "*Drag Line*" button.
3. Select the active area (the yellow part) of the line by holding down the right mouse button and dragging the mouse up and down.
4. Drag the line by moving the mouse to the desired point.



1. Click on the "*Edit Lines*" button.
2. Click on the "*Edit Line*" button.
3. Redraw the lines at the desired points by starting with a double-click, setting points with left-clicks, and ending the line by double-clicking.

Adding a lingual bow

- > Select "*Add Lingual Bar*" to set an additional lingual bow.

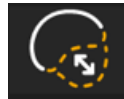
Alternatively, you can also click on the "*Lingual Bar*" button with the CTRL button pressed and insert a new element.

7.5.8 Connector



1. Select "*Connectors*" from the side palette or the context menu.
2. Select the desired connector thickness using the "*Thickness*" slide controller in the side palette.
3. Select the desired relief (gap) using the "*Inclination*" slide controller in the side palette.
4. You must also observe the notes in the section "Laminar elements [→ 19]".

Changing the shape of the connector



1. Click on the "*Edit Lines*" button.
2. Click on the "*Drag Line*" button.
3. Select the active area (the yellow part) of the line by holding down the right mouse button and dragging the mouse up and down.
4. Drag the line by moving the mouse to the desired point.



1. Click on the "*Edit Lines*" button.
2. Click on the "*Edit Line*" button.
3. Redraw the lines at the desired points by starting with a double-click, setting points with left-clicks, and ending the line by double-clicking.

Adding a connector

- > Select "*Add Connector*" to set an additional connector.

Alternatively, you can also click on the "*Connectors*" button with the CTRL button pressed and insert a new element.

7.5.9 Rest



1. Select *"Rest"* from the side palette or the context menu.
2. Select the desired rest thickness using the *"Thickness"* slide controller in the side palette.
3. You must also observe the notes in the section "Laminar elements [→ 19]".

Changing the shape of the rest



1. Click on the *"Edit Lines"* button.
2. Click on the *"Drag Line"* button.
3. Select the active area (the yellow part) of the line by holding down the right mouse button and dragging the mouse up and down.
4. Drag the line by moving the mouse to the desired point.



1. Click on the *"Edit Lines"* button.
2. Click on the *"Edit Line"* button.
3. Redraw the lines at the desired points by starting with a double-click, setting points with left-clicks, and ending the line by double-clicking.

Adding a rest

- > Select *"Add Rest"* to set an additional rest.

Alternatively, you can also click on the *"Rest"* button with the CTRL button pressed and insert a new element.

7.5.10 Back protection plate

IMPORTANT

The "*Backing Plate*" element is only available if a biogeneric copy (wax-up) has also been scanned.



1. Select "*Backing Plate*" from the side palette or the context menu.
2. Select the desired bite block plate thickness using the "*Thickness*" slide controller in the side palette.
3. You must also observe the notes in the section "Laminar elements [→ 19]".

Changing the shape of the back protection plate



1. Click on the "*Edit Lines*" button.
2. Click on the "*Drag Line*" button.
3. Select the active area (the yellow part) of the line by holding down the right mouse button and dragging the mouse up and down.
4. Drag the line by moving the mouse to the desired point.



1. Click on the "*Edit Lines*" button.
2. Click on the "*Edit Line*" button.
3. Redraw the lines at the desired points by starting with a double-click, setting points with left-clicks, and ending the line by double-clicking.

Adding a back protection plate

- > Select "*Add Backing Plate*" to set an additional back protection plate.

Alternatively, you can also click on the "*Backing Plate*" button with the CTRL button pressed and insert a new element.

7.5.11 Open end stop

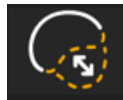
IMPORTANT

Open end stops can only be set under retention plates. You adopt the thickness that has been set as *"Inclination"* (gap) for the respective retention plate.



1. Select *"Tilt Stop"* from the side palette or the context menu.
2. You must also observe the notes in the section "Laminar elements [→ 19]".

Changing the shape of the open end stop



1. Click on the *"Edit Lines"* button.
2. Click on the *"Drag Line"* button.
3. Select the active area (the yellow part) of the line by holding down the right mouse button and dragging the mouse up and down.
4. Drag the line by moving the mouse to the desired point.



1. Click on the *"Edit Lines"* button.
2. Click on the *"Edit Line"* button.
3. Redraw the lines at the desired points by starting with a double-click, setting points with left-clicks, and ending the line by double-clicking.

Adding an open end stop

- > Select *"Add Tilt Stop"* to set an additional open end stop.

Alternatively, you can also click on the *"Tilt Stop"* button with the CTRL button pressed and insert a new element.

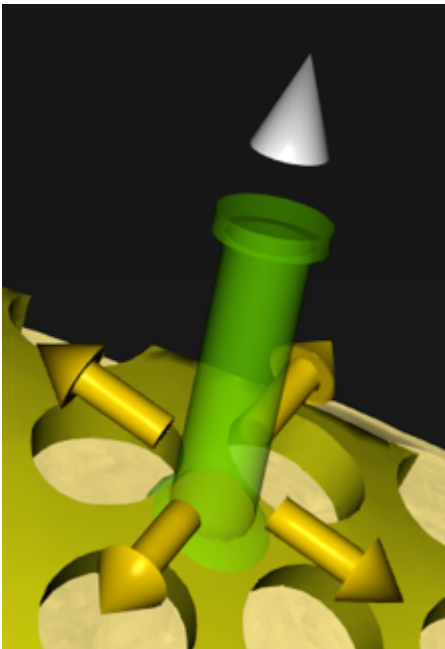
7.5.12 Retainer pin

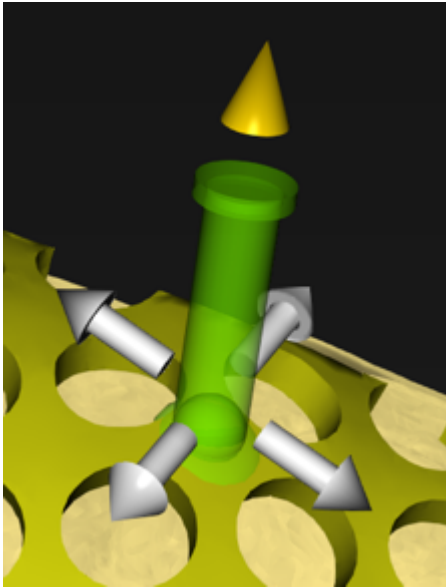


1. Select "*Retention Pin*" from the side palette or the context menu.
2. Select the thickness of the tip of the retainer pin using the "*Diameter*" slide controller in the side palette.
3. Select how long the retainer pin should be using the "*Height*" slide controller.
4. Select how wide the base of the retainer pin should be using the "*Base Width*" slide controller.
5. As soon as you move over a retainer pin with the mouse the pin hangs from the mouse pointer.
6. Double-click to set the retainer pin.

Positioning the retainer pins

1. Double-click on the retainer pin to activate it.
2. Move the pin over the retention plate using the direction arrows at the base of the pin.





3. Tilt the pin using the direction arrows at the tip of the pin.

Adding a retainer pin

- > Select *"Add Retention Pin"* to set an additional retainer pin.

Alternatively, you can also click on the *"Retention Pin"* button with the CTRL button pressed and insert a new element.

IMPORTANT

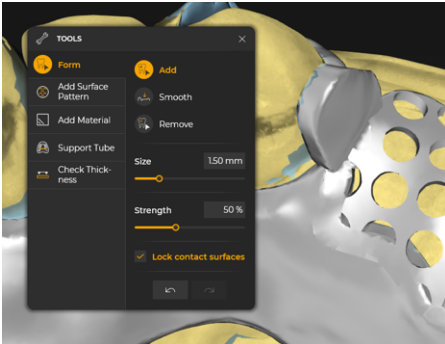
After setting the first pin, another retainer pin will hang from the mouse pointer. Guide the mouse to the position of the retainer pin and double-click again to set another retainer pin.

7.6 FINALIZE phase

When switching to the FINALIZE phase, all constructed elements are totaled up to one element.

7.6.1 Shaping

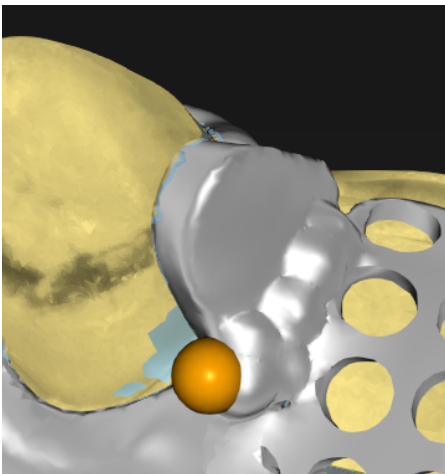
You can edit the model casting using the *"Form"* tool in the FINALIZE phase (see also *"Form [→ 22]"*).



7.6.2 Adding material

With the *"Add Material"* tool you can apply additional material onto the model casting (see also *"Adding material [→ 25]"*).

Tip: The *"Melt factor"* slider can be used to set how strongly the drop should melt into the material.



7.6.3 Adding support pipes

You can attach support pipes for producing the model casting using the *"Support Tube"* tool (see also *"Adding a support pipe [→ 26]"*).

7.6.4 Exporting the model casting

The model casting can be exported as an *.stl file via *"Export Framework"* in the step menu. Here the model casting and the support tubes are exported.

IMPORTANT

***.stl data format**

An appropriate license is required for exporting in the *.stl data format.

Sirona will not be held liable for the further processing of *.stl data in other/external software.

8 Tips and Tricks

8.1 Shortcut keys

Button(s)	+Ctrl	+Shift	Scope	Action
1			In the phase PREPARE, in step "Align Model" or "Check Blockout", if blockout calculated	Starts the "Form" tool.
1			In the DESIGN phase	Starts the tool for inserting a retention plate.
1			In the FINALIZE phase	Starts the "Form" tool.
2			In the phase PREPARE, in step "Align Model" or "Check Blockout", if a reference jaw is available	Starts the tool for importing a reference jaw.
2			In the DESIGN phase	Starts the tool for inserting a closing edge.
2			In the FINALIZE phase	Starts the "Surface pattern" tool.
3			In the phase DESIGN if at least one retention plate is present	Starts the tool for inserting a retainer pin.
3			In the FINALIZE phase	Starts the "Add Material" tool.
4			In the phase DESIGN if at least one retention plate is present	Starts the tool for inserting an open end stop.
4			In the FINALIZE phase	Starts the "Support Tube" tool.
5			In the DESIGN phase	Starts the tool for inserting a clasp.
5			In the FINALIZE phase	Starts the "Check Thickness" tool.
6			In the DESIGN phase	Starts the tool for inserting a palate plate.
7			In the DESIGN phase	Starts the tool for inserting a lingual bow.
8			In the DESIGN phase	Starts the tool for inserting a connector.
9			In the DESIGN phase	Starts the tool for inserting a clasp bar.
0			In the DESIGN phase	Starts the tool for inserting a rest.
A			In the phase DESIGN, element selected	Starts the tool for inserting a new element of the same type.
E			Case loaded	Displays the context menu.
E	x		In the FINALIZE phase	Exported to STL.
O	x		always	Open
S	x		Case loaded	"Save"
S	x	x	Case loaded	"Save as..."
X, Z	x	x	Case loaded	"Reset"
X, Z	x		Case loaded	"Undo"
Y	x		Case loaded	"Reset"

Button(s)	+Ctrl	+Shift	Scope	Action
Esc			Tool open	Close tool.
Esc			No tool open and "Ok"/ "Cancel" visible in the step menu	"Cancel" in the step menu.
"Delete"			Element selected	Deletes selected element.
Backspace key			Element selected	Deletes selected element.
Return			Tool open	Apply
Return			No tool open and "Ok"/ "Cancel" visible in the step menu	"Ok" in the step menu.

Index

B

Back protection plate, 19, 46
Biogeneric Copy, 34
Blocking-out wax, 33
Blockout wax, 13

C

Case
 Save as, 16
 Saving, 15
Clasp, 18, 35
Clasp bar, 18, 38
Closing edge, 18, 39
Code library, 16
COMPLETION, 50
Connector, 19, 44

E

Elements
 Additional, 20
 Flat, 19
 fusing, 13
 Linear, 18

F

File format
 Older formats, 8
 PF, 8

I

insertion axis
 Select, 31
Insertion direction, 13

L

Licenses, 16
Lingual bow, 19, 43

M

Manual
 HTML format, 8
Material
 apply, 13
Material thickness
 measure, 13
Model
 Aligning, 13
 Evaluating, 13
Model axis
 Defining, 30
Model casting prosthesis, 13

O

Open end stop, 19, 47

P

Palate plate, 19, 42
 Add a, 42
 Hole, 42
 Thickness, 42
Phase bar, 13
 COMPLETION, 13
 DESIGN, 13
 FINALIZING, 13
 PREPARATION, 13
Prosthesis
 process, 13
 shape, 13

R

rest, 19, 45
Retainer pin, 20, 48
Retention plate, 19, 41

S

Safety instructions, 7

Shape

 Modifying size, 23

 Modifying the size, 25

Shaping

 Apply material, 22

 Removing material, 22

 Smoothing, 22

Software

 Uninstallation, 10

Step menu, 14

Support pipes

 attach, 13

T

Tool

 shape, 22

Tools, 21

V

Views

 Change, 21

 View options, 21

W

Wax, 33

We reserve the right to make any alterations which may be required due to technical improvements.

© Sirona Dental Systems GmbH
D3703.208.03.04.02 03.2022

Sprache: englisch
Ä.-Nr.: 131 617

Printed in Germany

Sirona Dental Systems GmbH



Fabrikstr. 31
64625 Bensheim
Germany
www.dentsplysirona.com

Order No **65 38 222 D3703**