

**3Shape A/S**

**Abutment Design™**

**Dental Restoration Design Solution**



**[User Manual](#)**

**[www.3shape.com](http://www.3shape.com)**

Rx only

**CE**

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## Conventions Used in This User Manual

This chapter describes the text formatting conventions used in this document. We believe that consistent text formatting will help you locate and interpret information easily and correctly.

**Bold.** Bold formatting is used for user interface elements and text that needs to be highlighted.

For example: Use the **Cross section** tool to create a 2D cutting plane on the model and measure distances in the 2D preview.

*Italic.* Italic formatting is used for file names and paths, as well as the text to be entered into a field as an input.

For example: Save files to the *D:\Temp\* folder.

***Bold Italic.*** Bold Italic formatting is used to denote button and keyboard key names.

For example: Click the ***Next*** button to start the scanning process.

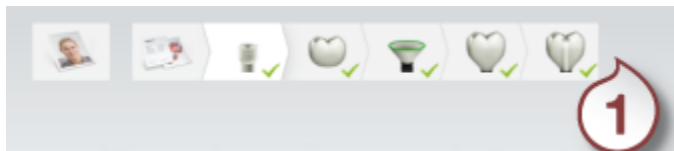
Sequence **Menu item** > **Menu item**. The right angle bracket (>) is used to show a sequential series of menus you need to open.

For example: **More**  > **Settings**  > **Abutment Design**  > **Download abutment libraries** .

**Image annotations.** Maroon color is used for annotations added to the image and when referring to them within a text.

For example:

The Workflow bar **(1)** guides you through the steps involved in restoration design.



**Procedure steps.** Procedure steps are highlighted using the symbol ► and bold formatting.

For example:

► **Step 1: Select the relevant tooth/teeth**

In the order form, select the relevant tooth/teeth in the 3D model with a mouse click.

**Safety information and recommendations.** Safety information and warnings are highlighted using the words **Warning** or **Note** and the corresponding symbol as indicated below. Useful recommendations are highlighted using the word **Hint**.



**Warning:** Warnings regarding situations where a medium risk of injury to persons exists if the information is not observed.



**Note:** Important information that is not a warning but must be observed.



**Hint:** Additional information or useful practical advice to support optimal operation of the software.

# 1 Introduction

3Shape's Abutment Design software caters for designing screw retained crowns in a fully digital workflow and forms part of 3Shape's solution for dentists and dental clinics. It easily integrates with the TRIOS intraoral scanner, lab scanners, Implant Studio™, and manufacturing software.

The software uses intraoral surface scans or scans from gypsum models of patient's teeth and provides intuitive tools for designing restorations adapted to the patient's dental conditions. The output is digital files containing the design which can be used to manufacture the dental restorations.

The software described in the manual is covered by the Terms and Conditions according to the End User License Agreement issued either by 3Shape A/S or 3Shape A/S Partner.

This product and/or parts of this product, such as hardware and/or software, may be patent pending, and this product and/or parts of this product may be protected by one or more granted patents.

## 1.1 Indications for Use

### Intended Use

The 3Shape Abutment Design software is intended as an aid for the design of the patient specific component of endosseous dental implant abutments.

### Intended User Profile

The 3Shape Abutment Design software is intended for use by trained dental practitioners and dental technicians for designing the patient specific component of dental implant abutment.

### Intended Conditions of Use

The Abutment Design software is to be used in dentist clinics and dental laboratories.

### Key Characteristics

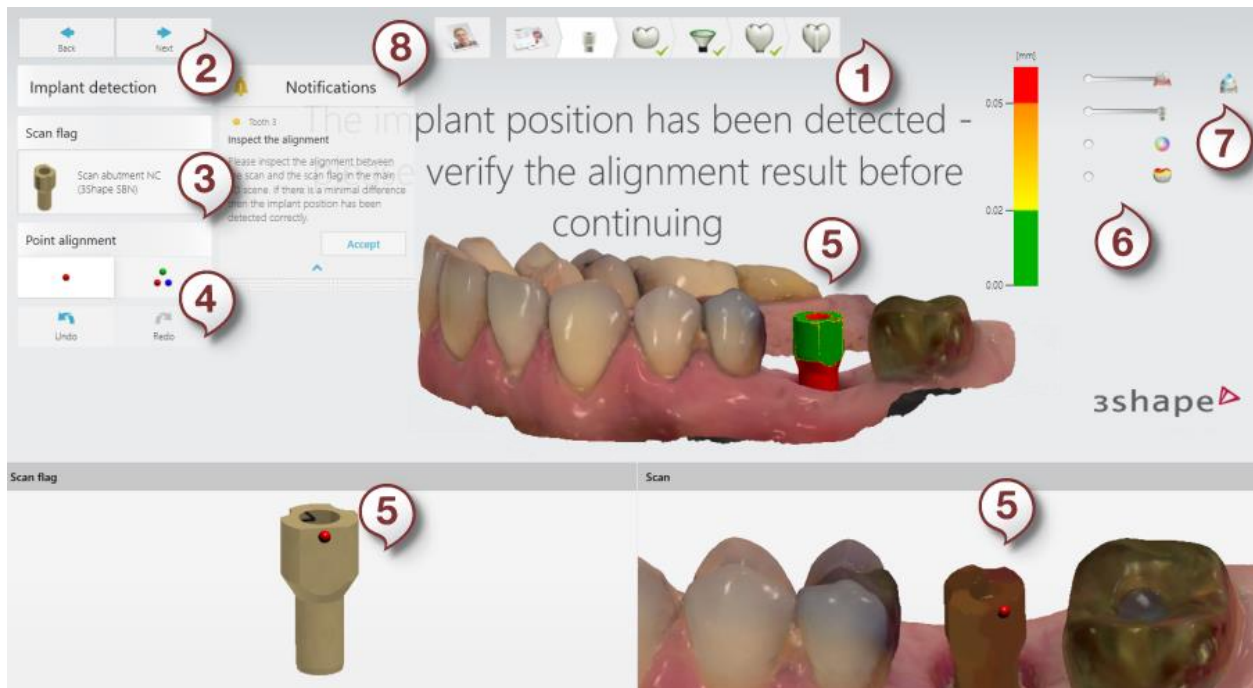
|                | Y/N |
|----------------|-----|
| For diagnosis? | N   |
| For treatment? | Y   |



**Hint:** Educational training videos on 3Shape products can be found on the 3Shape YouTube channel: <https://www.youtube.com/user/3shape>.

## 1.2 User Interface

After creating/opening a case, you are introduced to the user interface, which includes the following elements:



- (1) Workflow bar
- (2) Back/Next buttons
- (3) Main tools
- (4) Undo/Redo buttons
- (5) 3D modeling windows
- (6) [Visualization sliders](#)
- (7) [Cross section tool](#)
- (8) Notifications

### WORKFLOW BAR

The Workflow bar (1) guides you through the steps involved in restoration design. Organized sequentially from left to right, each button on the Workflow bar represents a step that must be completed to design a restoration. By clicking a corresponding button, you can step back and forth between the different design phases.

## TOOTH SELECTOR

The Tooth selector appears at the top left corner when there is more than one indication in a case. Selecting a tooth marks it with a small arrow, puts it in focus in the 3D window and enables you to work on the design. You can switch among teeth by clicking them either in the tooth selector or directly in the 3D view.

## USING A MOUSE

Use the mouse as follows to work with a 3D model:

- Left-click to select and apply a tool in the 3D view
- Right-click to turn the scans while keeping the button pressed
- Center-wheel-click is used to move/pan the scans

For the **Multi-select** feature description, refer to the Anatomy Design user manual.

## USING A TOUCH SCREEN

- Tap to select (corresponds to the left mouse click)
- Touch and hold to open the context menu (corresponds to the right mouse click)
- Swipe to scroll (corresponds to the mouse scroll)



**Warning:** Some tools and features use colors to guide and assess the design. Therefore, to use them efficiently, you must have the ability to recognize colors.

## 2 How to Design

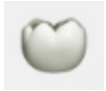
Follow the steps below to design your case:



► **Step 1.** [Set up a Case](#)



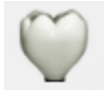
► **Step 2.** [Detect Implant Position](#)



► **Step 3.** [Design Anatomy](#)



► **Step 4.** [Design Emergence Profile](#)



► **Step 5.** [Design Restoration](#)



► **Step 6.** [Apply Screw Hole](#)

### 2.1 Set up a Case



To set up a screw retained crown case, create a new case in the patient or case manager, and specify restoration details as described below.

#### ► **Step 1: Select the relevant tooth/teeth**

In the order form, select the relevant tooth/teeth in the 3D model with a mouse click.



**Hint:** For efficiency reasons, it is advisable to select all teeth that require the same type of restoration and material at once.

#### ► **Step 2: Choose the restoration type and its details**

Select **Screw Retained Crown** from the indication list, as well as the required material and color.

Back Next

Send to

- In-house
- Anatomy
- Frame
- Screw Retained Crown  
Zirkon, 2 pcs Abutment 4.3 mm, Priti A1
- Misc
- Bridge
- Removable
- Gingiva
- Model
- Appliance
- Implant Planning

|                                    |                      |
|------------------------------------|----------------------|
| Indication<br>Screw Retained Crown | Abutment             |
| Material<br>Zirkon                 | Anatomical Abutment  |
| Shade<br>Priti A1                  | Screw Retained Crown |
| Insertion group<br>Not in group    | Waxup Abutment       |
|                                    | - None -             |

1

2

Patient information

Search or create patient

Delivery date

Select date

Case overview

Screw Retained Crown 3  
Zirkon, Priti A1

Additional scans

Pre-Preparation  
Emergence profile

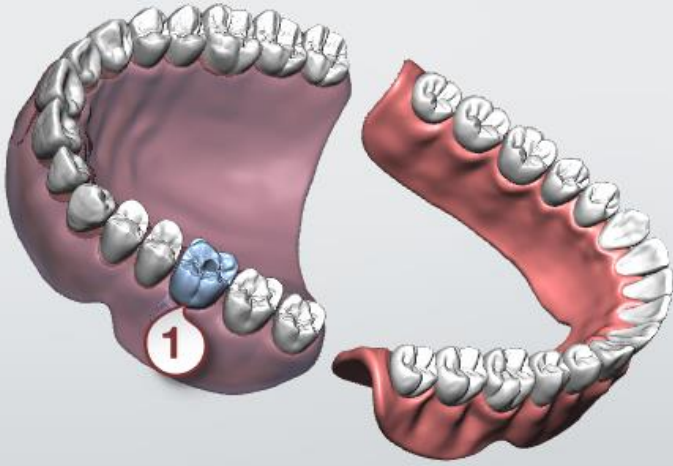
Comments and attachments

Original Import

3shape

If you want to reset previously chosen indications only for the selected tooth (teeth) **(1)** on the order form, you can either choose **None (2)** from the indication list, or right click anywhere in the form and select **Delete all indications on selected tooth (teeth)**.

|                                               |                                                                                   |                                    |                                                                                   |                      |                                                                                     |
|-----------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|
| Screw Retained Crown<br>Zirkon, Any, Priti A1 |  | Indication<br>Screw Retained Crown |  | Abutment             |  |
| Misc                                          |  | Material<br>Zirkon                 |  | Anatomical Abutment  |  |
| Bridge                                        |  | Shade<br>Priti A1                  |                                                                                   | Screw Retained Crown |  |
| Removable                                     |  | Insertion group<br>Not in group    |                                                                                   | Waxup Abutment       |  |
| Gingiva                                       |  |                                    |                                                                                   | - None -             |  |
| Model                                         |  |                                    |                                                                                   |                      |                                                                                     |
| Appliance                                     |  |                                    |                                                                                   |                      |                                                                                     |
| Implant Planning                              |  |                                    |                                                                                   |                      |                                                                                     |



To remove all indications from an order, right-click anywhere in the form and select **Delete all indications on all teeth.**



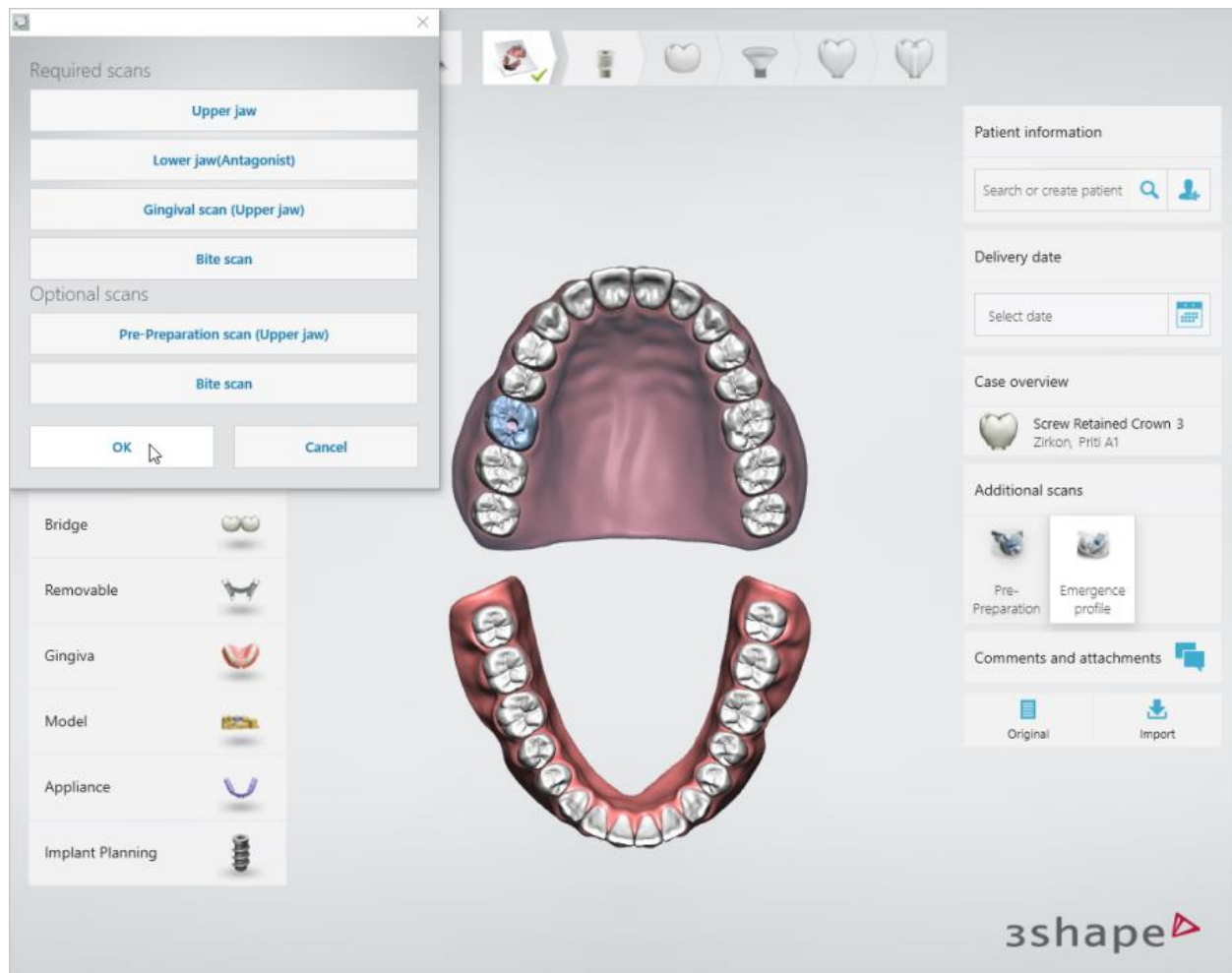
### ► Step 3: Add scans

Depending on your situation, you can either obtain scan with a 3Shape scanner installed on your computer or import an already available scan into your order.



**Note:** Abutment Design supports import of scans of the following formats: DCM, STL and HPS.

- **To scan:** Click the **Next** button to start the scanning process. Ensure that the scans include all the areas required for the restoration design and are well aligned to replicate the actual patient's bite.
- **To import scan:** Click the **Import**  button in the lower right corner of the window to open the import dialog. Select the scan file of the jaw and click **Open**. Repeat the procedure for the antagonist and gingival (emergence profile) scan files, and, optionally, the bite and pre-preparation scan files. Once all scan files have been selected, click **OK**.



Alternatively, you can import scans in the patient or case manager: right-click the case and select **Import scans** to open the import dialog.

| Patient                                                                                                                                                                   | Creation date       | Items                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------|
|  <div> Import scans Import video Export Import from 3oxz Copy Delete Unlock Audit </div> | 4/3/2018 4:59:17 PM | Screw Retained Crown 3 |



**Hint:** Perform a visual inspection of the imported scans to ensure their relevance to the patient's teeth and their sufficient quality for design of restorations.

Click **Next** to proceed to the [Detect Implant](#) step.

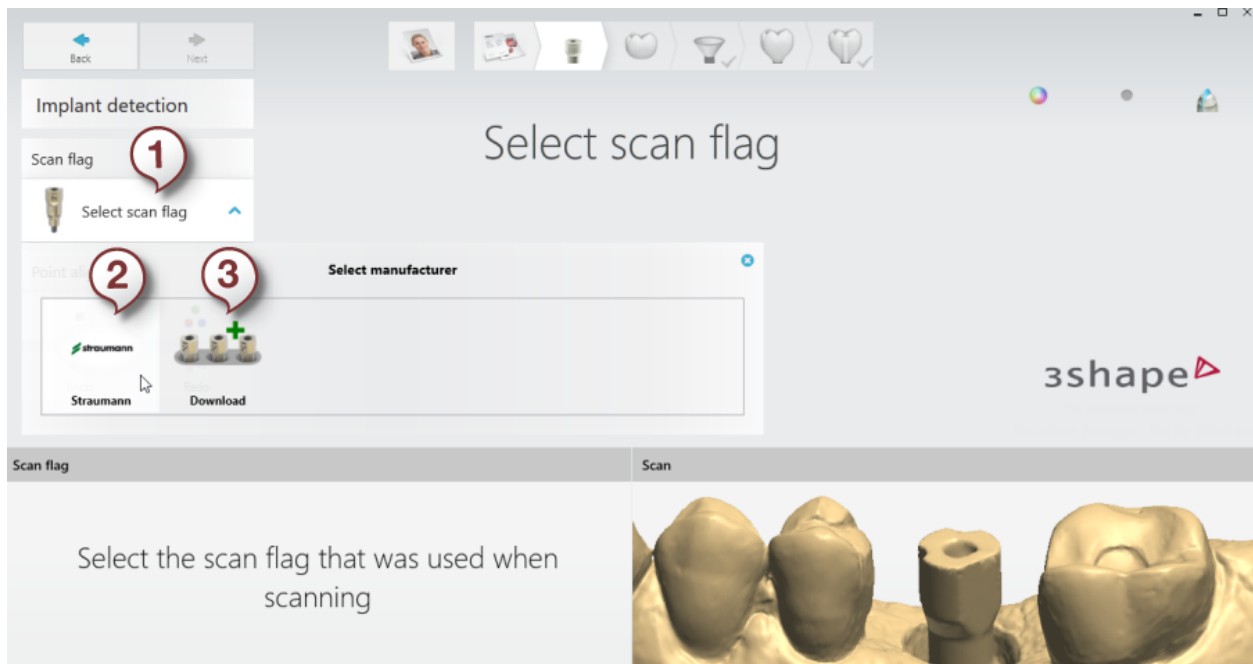
## 2.2 Detect Implant



In this step, you need to detect the implant positions in the case. This is done by aligning a virtual model of the scan flag with the scan of the scan flag.

### ► Step 1: Select manufacturer

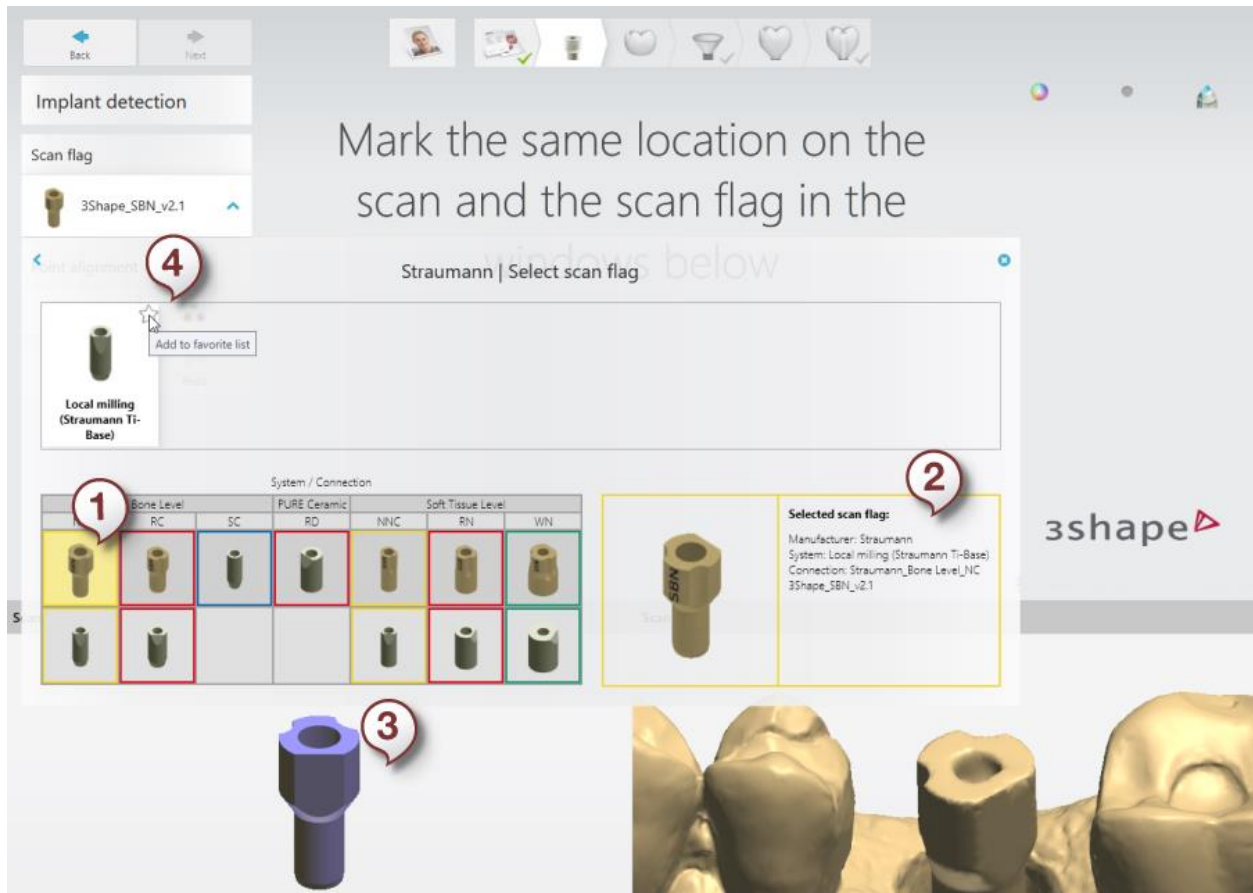
Click the **Select scan flag** button (1) and choose a manufacturer from the list (2). To add more manufacturers, click the **Download**  button at the end of the list (3) and download/import the new abutment libraries (see [Abutment Libraries](#) for details).



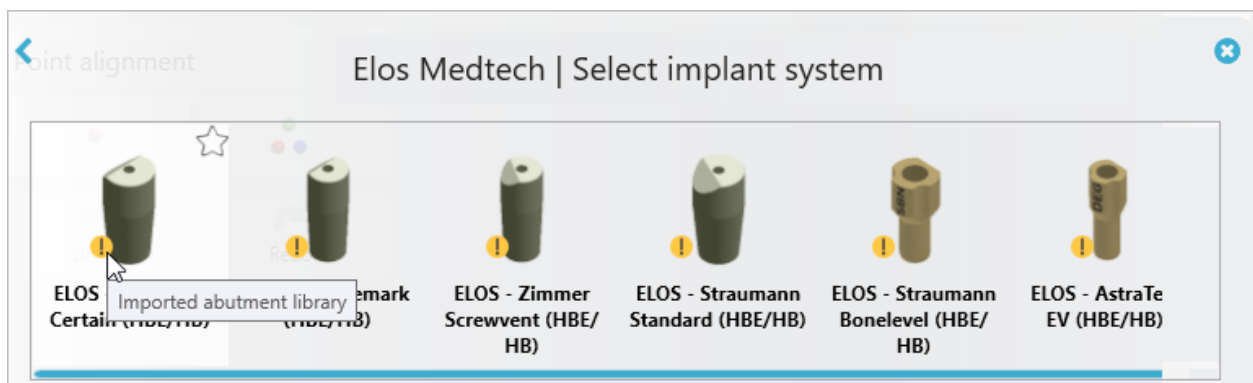
## ► Step 2: Select scan flag model

Double-click a scan flag **(1)** - this will both select it and close the **Select scan flag** dialog. Single-click a scan flag to display its information **(2)** and preview the selected scan flag in the **Scan flag** window **(3)**.

To mark the manufacturers you use most as favorites, click the star that appears when the cursor is hovered over a manufacturer icon **(4)**. To choose another manufacturer, click the **Back** button. To close the **Select scan flag/Select manufacture** dialogs, click the **Close** button.



An exclamation mark in a yellow circle ! next to a scan flag indicates that this scan flag belongs to an imported abutment library (refer to the [Imported Libraries](#) section for details).

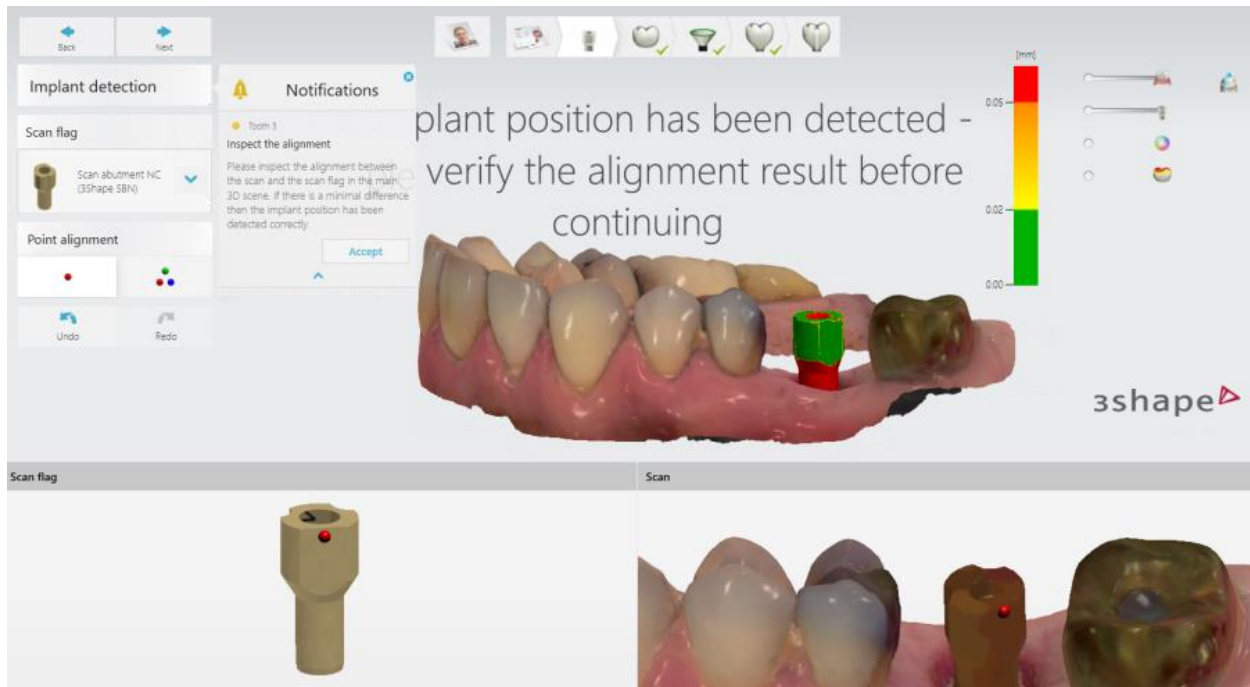


### ► Step 3: Choose alignment method

You can select either one-point  or three-point  alignment method.

#### ► Step 4: Align scan flag(s)

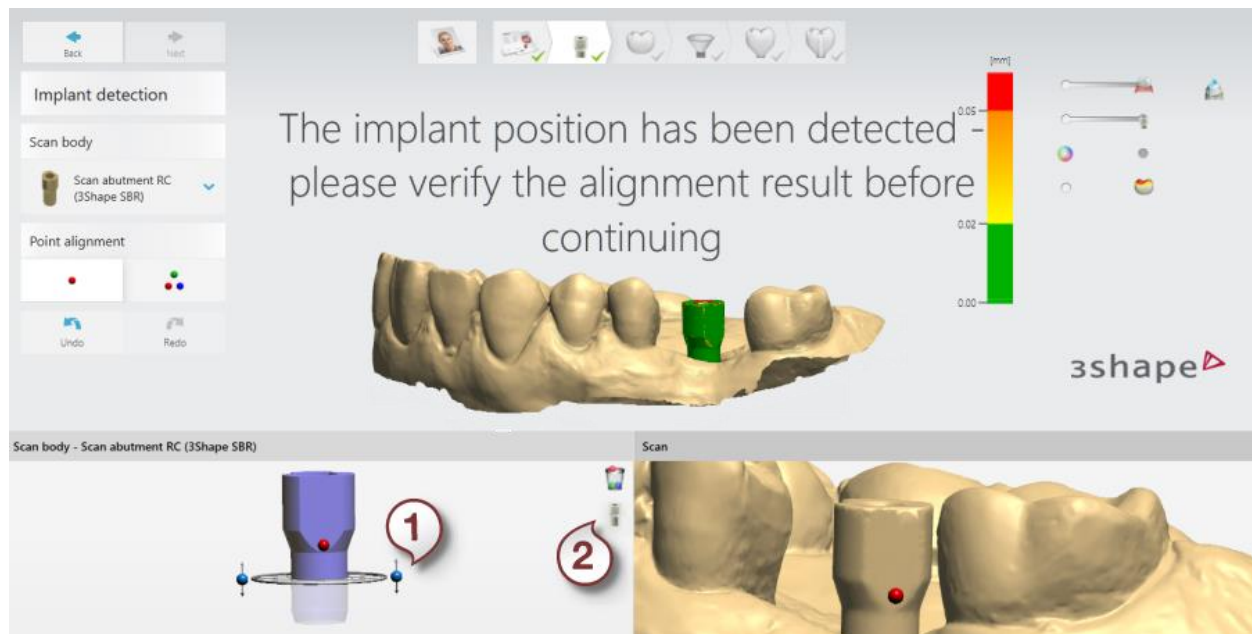
Depending on the alignment method you choose, place one or three alignment points at the same position on the scan flag in both, the **Scan** and **Scan flag** windows. When all points are placed, the software aligns scan flags accordingly.



Drag the alignment points to correct the alignment if needed. To restart the placement procedure, click the **Clear points**  button.

#### ► Step 5: Adjust alignment area

On the scan flag model, use the **Adjust height** delimiter **(1)** to mark which part of the scan flag to include into alignment (generally, the part located above the gingiva). With a mouse pointer, move the delimiter up and down to set a boundary. The area that appears dimmed is excluded from alignment. To show/hide the delimiter, click the **Adjust height**  icon **(2)**.



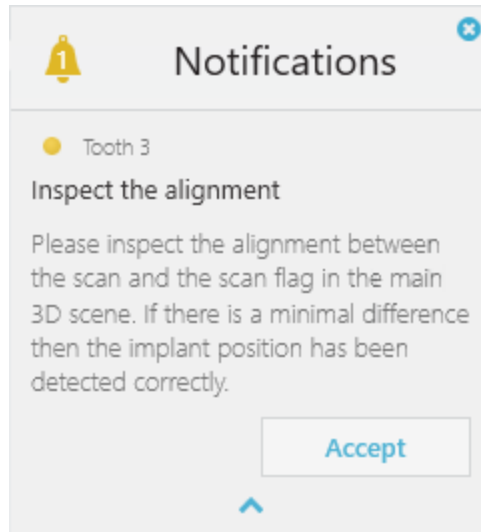
## QUALITY CHECKS

You can visually evaluate the quality of scan flag alignment – the green color represents accurate alignment (up to 0.02 mm), while the red color indicates an alignment problem. You can also check the alignment by pointing the mouse to the aligned scan flag – the software shows the difference between the detected and actual scan flag positions at this point.

- **Successful implant detection**

When the alignment is accurate, the software displays the confirmation about successful implant detection and allows you to proceed to the next step by clicking **Next**.

When more than 25% of the scan flag surface is misaligned and/or when the average distance between the scan flag surface and the scan is more than 0.05 mm, the software warns and prevents you from moving further:

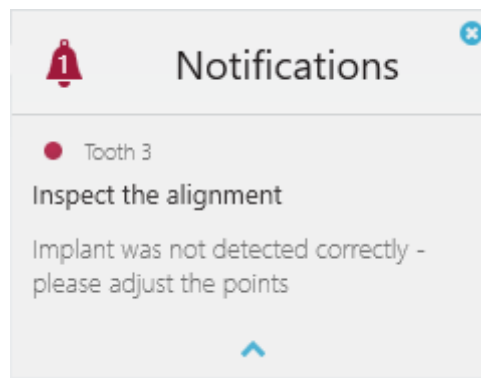


- **Implant detection accuracy is insufficient**

Check the alignment in the 3D view, and, if satisfied with the result, click **Accept**. This enables the **Next** button allowing you to proceed to the next step. Otherwise, ensure the correct scan flag model is selected and correct the alignment with the control point(s).

- **Implant detection failed**

In case of misalignment, the software warns and prevents you from moving further:



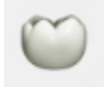
Ensure the correct scan flag model is selected and correct the alignment with the control point(s).



**Warning:** Make sure the scan flag alignment is correct before proceeding to the next step.

Once you aligned the scan flags accurately, click **Next**.

## 2.3 Design Anatomy



In this step, you need to design the initial crown with respect to the surrounding teeth. The software automatically constructs and positions a crown proposal which you can adjust with a set of tools described in the Anatomy Design user manual.

Click **Next** to [Design Emergence Profile](#).

## 2.4 Design Emergence Profile



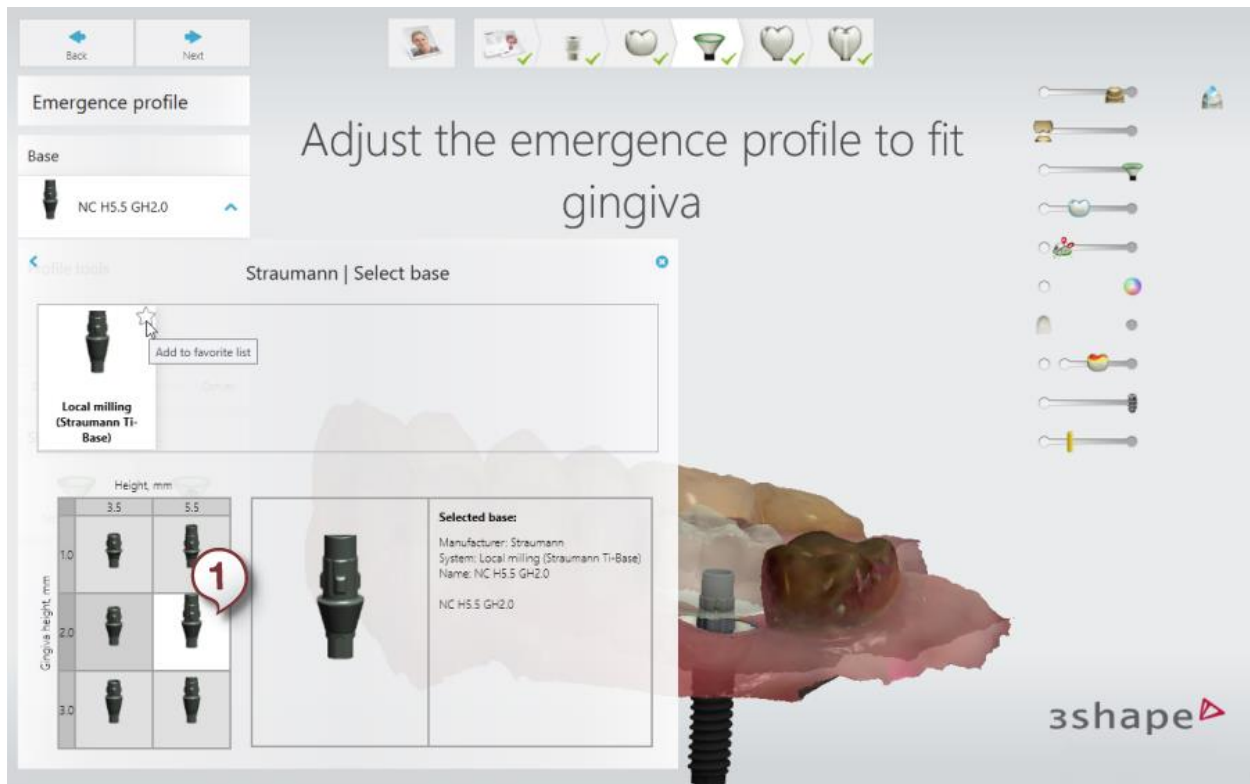
In this step, you need to shape the emergence profile of the abutment.

Upon entering the step, the software offers you an automatic emergence profile design, which can be adjusted with a set of tools.

### ► Step 1: Choose an implant base

Choose the appropriate implant base **(1)** to obtain sufficient fit and strength for the restoration. The procedure is similar to the scan flag selection described in the [Detect Implant](#) step.





A check mark symbol in a green circle next to an implant base manufacturer **(1)** and in an implant base description **(2)** indicates that the including abutment library belongs to a trusted connection (refer to the [Downloaded Libraries](#) section for details), while an exclamation mark in a yellow circle indicates that this implant base belongs to an imported abutment library (refer to the [Imported Libraries](#) section for details).



**Note:** The system displays the trusted library label ✓ only if the CAMBridge software module and the corresponding 3Shape trusted-connection milling machines are installed in your system.

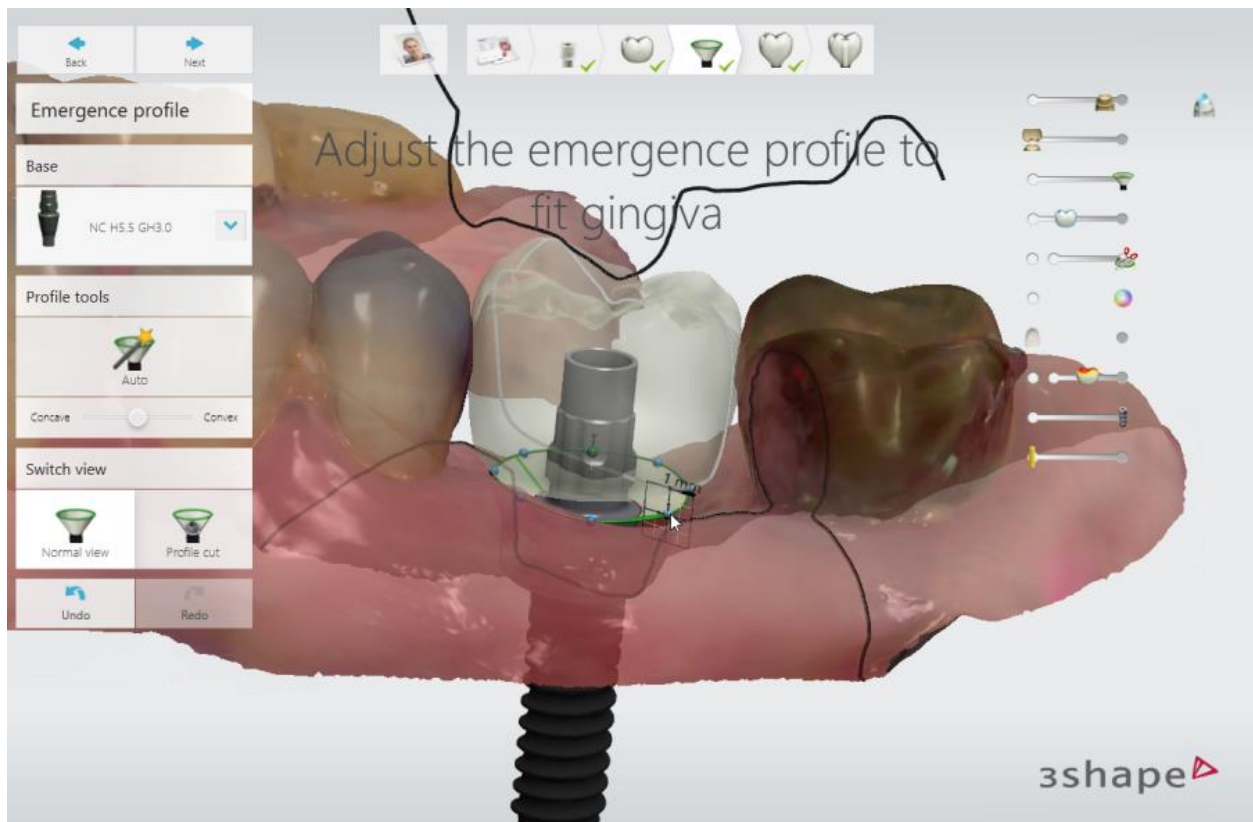
The abutment libraries with various implant bases are available for import/download on the [Import abutment libraries](#) and [Download abutment libraries](#) pages.

## ► Step 2: Design the emergence profile

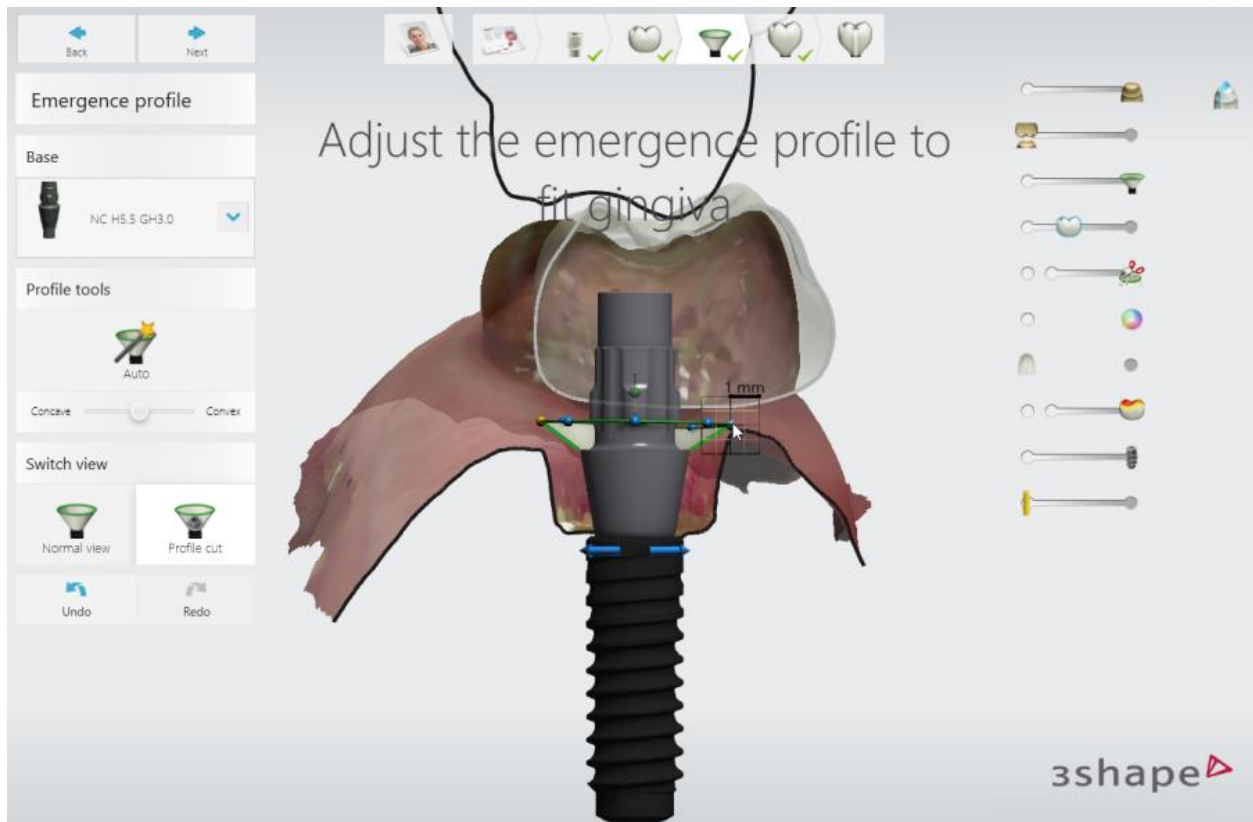
The upper part of the emergence profile is outlined with a **green** line and can be adjusted by moving the **blue** control points. To alter the height of the emergence profile, move the **green** control point in the center or the **green** line up and down. To alter the entire emergence profile, hold down the **Ctrl** key to select all control points and drag them as a group.



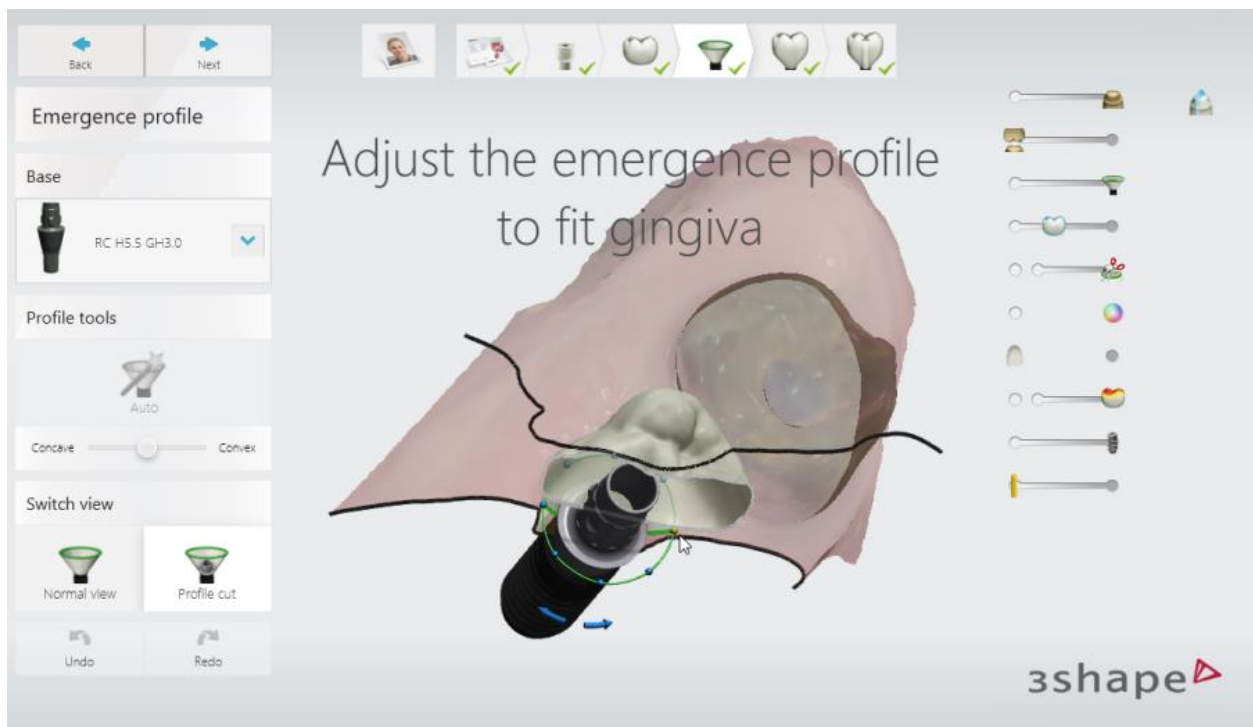
Hovering the cursor over a **blue** control point shows a cross-section outline and a scale of the distance between the gingiva outer surface and the blue point. You can select a blue control point with a mouse click and move it for adjustment while holding the mouse button down.



Clicking the **Profile cut** button displays the cross-section view of the emergence profile and the crown with the hidden front part.



Clicking any of the **blue** control points displays the cross-section view passing through this point.



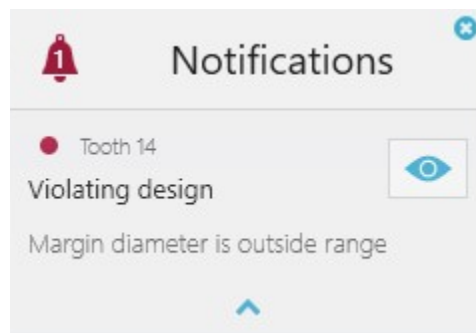
To navigate through the control points, use either the left and right arrow keyboard keys or the blue turning arrows in the 3D view. To close the cross-section view, click anywhere on the screen or the **Normal view** button.

To adjust the curvature of the entire emergence profile, rotate the mouse scroll wheel while pointing at the **green** line or move the  slider on the left side of the screen. To adjust the curvature under a **blue** control point, rotate the mouse scroll wheel while hovering over it. In the Profile cut mode, the slider controls curvature under the active control point.

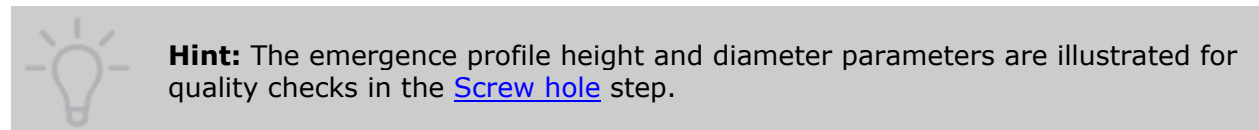
You can use the **Auto**  button to restore the initial emergence profile design.

## QUALITY CHECKS

When, during design, the emergence profile height or diameter violates the safety requirements, the software blocks you from moving to the next step and displays the following notification:



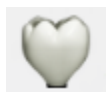
Click  to inspect your design (the areas that are beyond the safety limits are colored in red) and correct the [emergence profile](#) height/diameter by lifting/lowering or expanding/reducing that parts.



**Hint:** The emergence profile height and diameter parameters are illustrated for quality checks in the [Screw hole](#) step.

If no issues are found, the software allows you to proceed to the next step by clicking **Next**.

## 2.5 Design Restoration



In this step, the crown and emergence profile designs are merged into one element, which can be adjusted with a set of tools described in the Anatomy Design user manual.

When the desired result is achieved, click **Next**.

## 2.6 Apply Screw Hole



In this step, a screw hole through the crown is added to the final restoration.

You can adjust the radius of the screw hole by entering the value in the **Extra hole radius** field. Optionally, you can also adjust the offset between the base and the crown for optimal crown seating. To do this, enter the desired offset distance in the **Extra cement gap** field.



**Note:** Upon changing the **Extra cement gap** value provided with the abutment library, the software warns and prevents you from moving further until you click **Accept**.



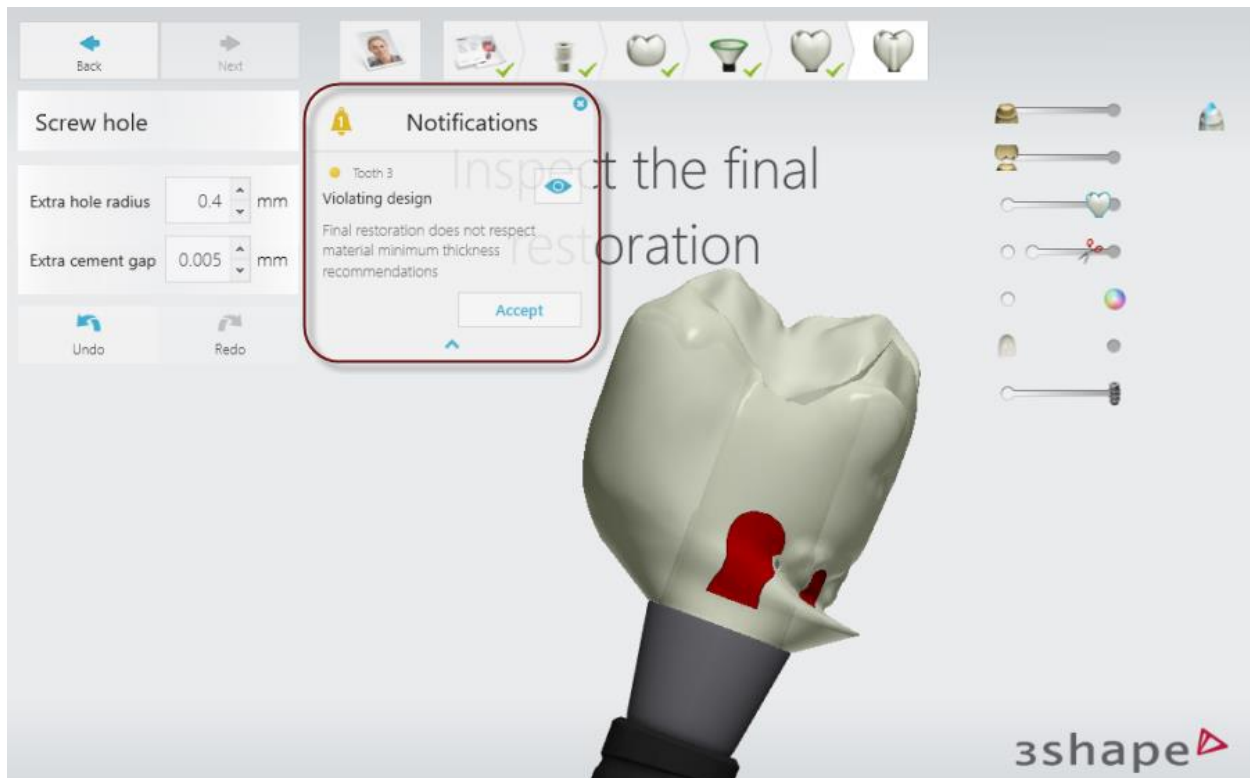
**Warning:** Inspect and verify the position of the applied screw hole from a safety and aesthetic point of view before continuing.

Complete the final restoration design by clicking **Next**.

### QUALITY CHECKS

If upon entering this step, the software detects that the restoration violates the safety requirements, you get a **Violating design** notification and cannot proceed with the design.

E.g., this warning appears on violation of the crown minimum thickness:



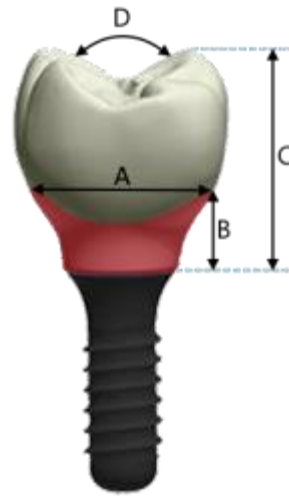
Click  to inspect the violated areas (colored in red) and return to the [Design Restoration](#) step to correct the design, or click **Accept** to continue without corrections.

The software also checks the design parameters illustrated below. The limits on these parameters are specified in the abutment library. A and B are checked in the [Emergence profile](#) step, and C and D are checked in the [Screw hole](#) step. It is not possible to output a design that violates C and D - these values must then be adjusted in the [Anatomy design](#) step.

| Parameter                  | Legend |
|----------------------------|--------|
| Emergence profile diameter | A      |
| Emergence profile height   | B      |
| Total height               | C      |

Top cap angle

D



## 3 Tools and Libraries

Abutment Design provides a set of [Visualization Tools](#) and [Abutment Libraries](#) for the screw retained crown design.

### 3.1 Visualization Tools

The visualization tools include the visualization sliders and the cross section tool.

#### VISUALIZATION SLIDERS

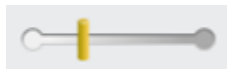
Use the visualization sliders to adjust the transparency of:



Active emergence profiles **(1)**



Implants and implant bases **(2)**



Screw holes **(3)**



**Note:** Only sliders relevant to the current step are shown.

The following visualization sliders will also be helpful in your restoration design:



**Preparation** - adjusts the transparency of the preparation scan.



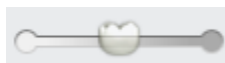
**Antagonist** - adjusts the transparency of the antagonist scan and restorations on the antagonist jaw, if available.



**Pre-preparation** - adjusts the transparency of the pre-preparation scan.



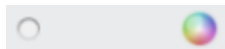
**Active item** - adjusts the transparency of the active designs.



**Inactive items** - adjusts the transparency of the inactive designs, if any, such as anatomy of other tooth/teeth, e.g., on a bridge.



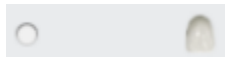
**Center view clipping** - cuts away some of the scan from the center of the indication and out. Dragging the slider will move the plane that hides the scan in or out.



**Show texture on scans** - turns the texture and color of scans on/off.



**Virtual sectioning** - adjusts the visibility at the margin line by cutting out the preparation from the rest of the scan to have a cleaner view.



**Show texture on crowns** - turns crown design texture on/off when the used smile library provides texture.



**Show distance map** - enable this slider to evaluate the distance to the neighboring teeth, antagonist, and gingiva with the color scale. Select the **Show protrusion values**   option to show the protrusion values in the 3D view.

The minimum and maximum values of the color scale can be adjusted. Click the field and type in a new value.

## CROSS SECTION TOOL



Use the **Cross section** tool to create a 2D cutting plane on the model and measure distances in the 2D preview.

- Draw a section line across the model by holding down the left mouse button to create a 2D cutting plane.
- To rotate the 2D plane, click and drag the **red** control point or the rim.
- To move the 2D plane alongside the scan, click and drag the **blue** control point.

After you have placed the cross-section plane, a 2D window appears in the lower-right corner, where you can do the following:

- Move the mouse cursor over the window and scroll to zoom the sectioned area in/out.
- Press down the mouse wheel to move the cross section in the 2D window.
- Place two points to measure the distance between objects.
- Click the **Reset plane**  button in the 2D window to remove the cross section plane.
- Click the **Enable clipping plane**  button in the 2D window to cut off the part of the scan in front of the plane. Click the button again to disable this option.
- Click the **Enable model cross sections in 3D view**  button to visualize where the plane intersects with the model. Click the button again to disable this option.
- Change the window size by dragging its border with the cursor.
- Click **Minimize**  to minimize the 2D window to the lower right corner.
- Click **Maximize**  in the lower right corner to restore the 2D window to its original size.
- Click **Close**  to close the **Cross section** tool.



**Note:** All the measurements in the software are presented either in millimeters or in degrees unless otherwise specified. Both are accurate to two decimals ( $\pm 0.005$ ).

## 3.2 Abutment Libraries

You can download/import the abutment libraries with scan flags and implant bases required for [Implant Detection](#) and [Emergence Profile Design](#) under **More**  **Settings**  >

**Abutment Design**  :

- [Download abutment libraries](#)
- [Import abutment libraries](#)

### 3.2.1 Download Abutment Libraries



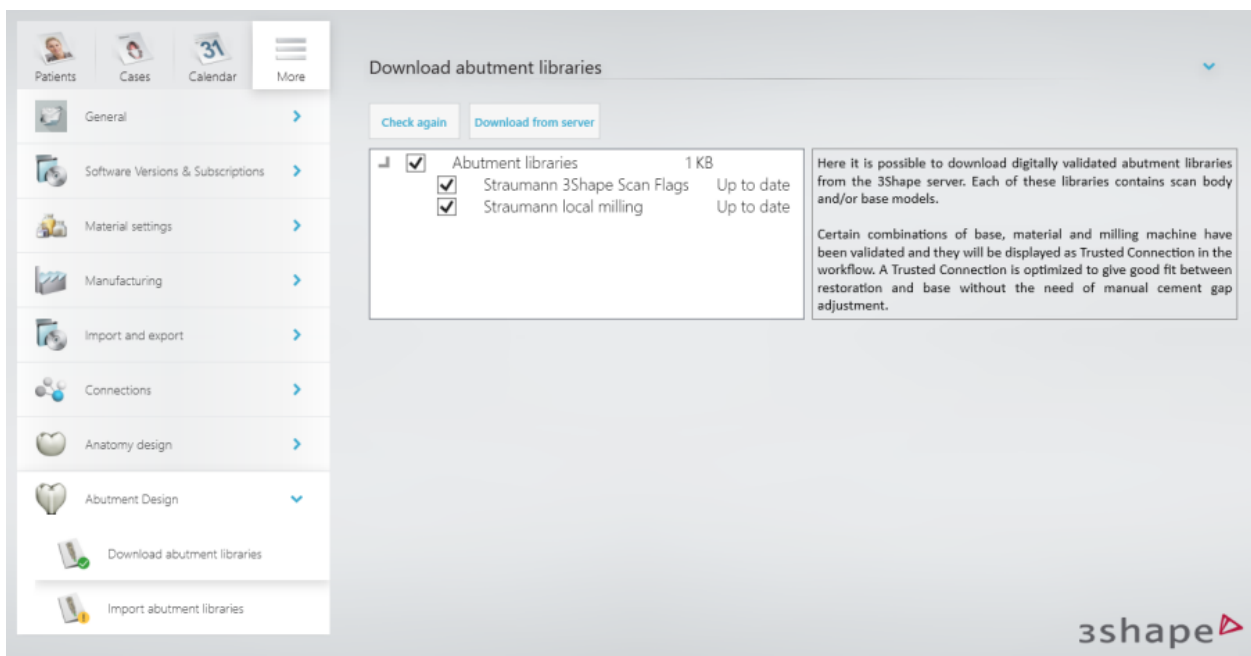
On this page, you can download digitally validated (i.e. proved to work properly in the system) abutment libraries.

Some of these libraries (referred to as belonging to a trusted connection) have been validated to ensure they achieve a good fit between the restoration and the base

without manual cement gap adjustment. In the [Design Emergence Profile](#) step, the implant bases selected from such libraries are marked with a check mark symbol in a green circle ✓.

## DOWNLOAD ABUTMENT LIBRARY

1. Under **More > Settings > Abutment Design**, click **Download abutment libraries**.
2. Click the **Check again** button to check for available libraries.
3. Select the check box next to the libraries you want to download.
4. Click the **Download from server** button.
5. In the confirmation dialog, click **Yes**.



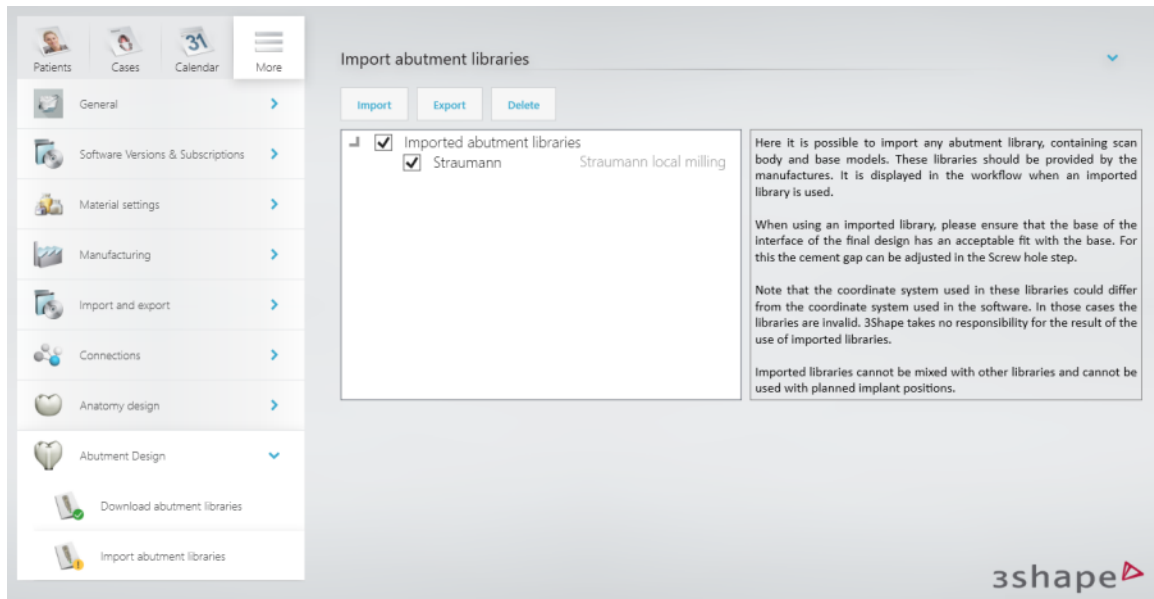
## 3.2.2 Import Abutment Libraries



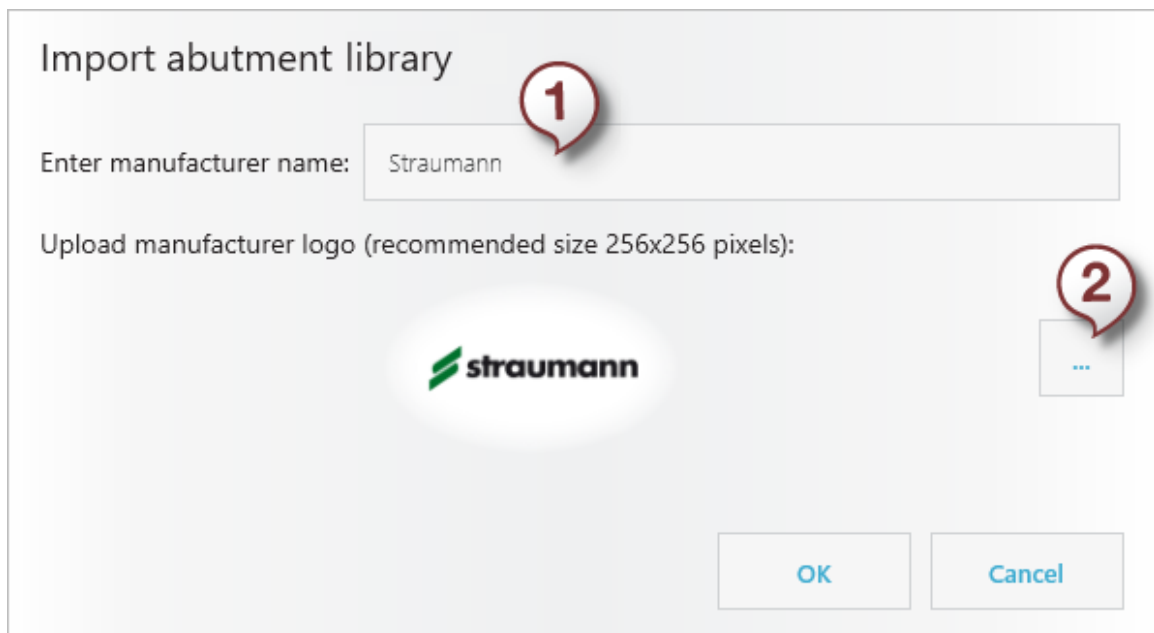
On this page, you can import the abutment libraries provided by the third-party manufacturers for Trios Design Studio. Their elements are marked with an exclamation mark in a yellow circle ⚠ in the design workflow (see the [Detect Implant](#) and [Design Emergence Profile](#) sections for details).

## IMPORT ABUTMENT LIBRARY

1. Under **More > Settings > Abutment Design**, click **Import abutment libraries**.

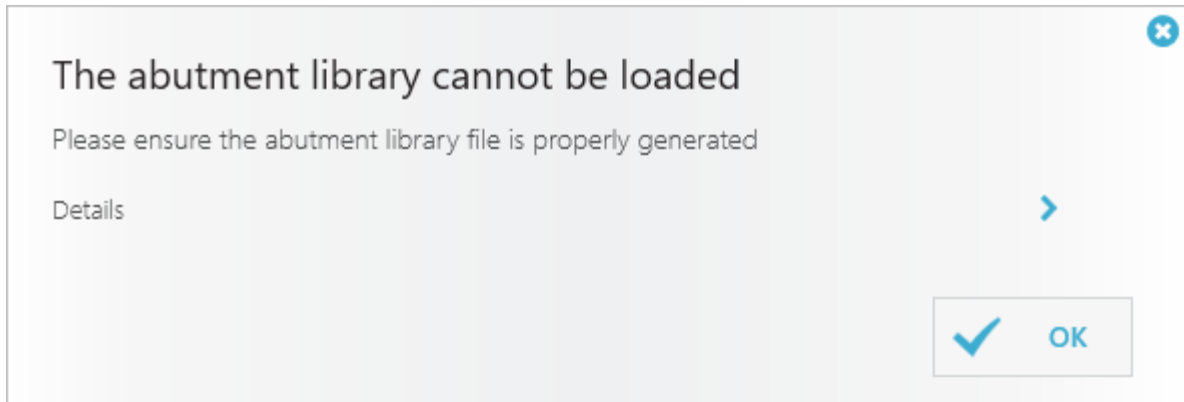


2. Click the **Import** button. A dialog appears, prompting you to select a .dme or .kits file.
3. Select the file you want to import and click **Open**.
4. In the **Import abutment library** dialog, enter a manufacturer name **(1)** and upload a manufacturer logo **(2)**.



5. Click **OK** and then click **Yes** in the confirmation dialog.

During the import process, the third-party libraries undergo a validation check to assess whether they will function properly in the system. If the validation check fails, the following error message appears:



Click **OK** and contact your manufacturer for proper library assembling.

### EXPORT ABUTMENT LIBRARY

1. Under **More > Settings > Abutment Design**, click **Import abutment libraries**.
2. Click the **Export** button. A dialog appears, prompting you to select a destination folder.
3. Select the destination folder and click **OK**.

### DELETE ABUTMENT LIBRARY

1. Under **More > Settings > Abutment Design**, click **Import abutment libraries**.
2. Select the check box next to the libraries you want to delete.
3. Click **Delete** and then click **Yes** in the confirmation dialog.



**Note:** If you use the imported abutment libraries not checked by 3Shape an adjustment of the cement gap in the [Screw hole](#) step might be required.

## 4 Shortcuts

The list of shortcuts used in Abutment Design is given below.

| Shortcut                                                                         | Description                                                                                         |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b><i>Ctrl</i></b>                                                               | Select and move all control points as a group in the <a href="#">Design Emergence Profile</a> step. |
| <b><i>Left/right arrow keys</i></b><br>(after a control point has been selected) | Navigate through the control points in the <a href="#">Design Emergence Profile</a> step.           |
| <b><i>Wheel button rotation</i></b><br>(while pointing to a blue control point)  | Adjust the curvature under a control point in the <a href="#">Design Emergence Profile</a> step.    |
| <b><i>Wheel button rotation</i></b><br>(while pointing to the spline)            | Adjust the emergence profile curvature in the <a href="#">Design Emergence Profile</a> step.        |

Refer to the Anatomy Design user manual for the description of other shortcut combinations.

## 5 System Requirements

Please make sure your computer meets the following system requirements prior to using Abutment Design:

| Item                        | Specifications                                                               |
|-----------------------------|------------------------------------------------------------------------------|
| <b>OS:</b>                  | Windows 7, Windows 8, Windows 8.1 and Windows 10 (64-bit versions)           |
| <b>RAM:</b>                 | 8GB (16GB recommended)                                                       |
| <b>Monitor Resolution:</b>  | 1920x1080 pixels                                                             |
| <b>Video Card Memory:</b>   | 1GB DirectX 11 (2GB DirectX 11 recommended) NVIDIA GeForce                   |
| <b>Available HDD Space:</b> | 500GB (1TB if used as a standalone system or a server with the order folder) |
| <b>CPU:</b>                 | IntelCore i7 or equivalent                                                   |
| <b>Network:</b>             | Network Internet connection                                                  |
| <b>USB ports:</b>           | USB 2.0 port for 3Shape desktop scanner                                      |
| <b>Mouse:</b>               | With the wheel button support                                                |
| <b>3D Mouse:</b>            | (Optional) 3DConnexion SpaceMouse™ Pro                                       |

## 6 Manufacturer Information

3Shape is a global company with offices in Europe, Asia, and the Americas.

**3Shape Abutment Design** is developed by **3Shape A/S**.



### **3Shape A/S**

Holmens Kanal 7

1060 Copenhagen K

Denmark

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[3shape.com](http://3shape.com) - visit our corporate website to learn more about 3Shape, our products and innovations. Download the .pdf version of the user manual in the Knowledge Center section of the website. Obtain a free printed copy of the user manual within 7 days by contacting 3Shape support at [support@3shape.com](mailto:support@3shape.com).

Please contact your reseller for requests regarding support, customer service, or download or upgrade of the software.

## 7 Regulatory Representatives

Representatives below should be kept informed in connection with the vigilance and FSCA procedures:

| Country          | Representative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Australia</b> | <p><b>Australian Sponsor</b></p> <p>Emergo (Australia), Level 20, Tower II</p> <p>Darling Park, 201 Sussex Street</p> <p>Sydney, NSW 2000</p> <p>Australia</p> <p>Tel: +61 2 9006 1662</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Brazil</b>    | <p><b>Emergo Brazil Import Importação e Distribuição de Produtos Médicos Hospitalares Ltda</b></p> <p>Avenida Francisco Matarazzo, 1.752, Salas 502/503, Água Branca, São Paulo-SP, CEP – 05001-200</p> <p>Responsável Técnico: Luiz Levy Cruz Martins - CRF-SP: 42415</p> <p>País de Fabricação: Dinamarca</p> <p>Email: <a href="mailto:brazilvigilance@emergogroup.com">brazilvigilance@emergogroup.com</a></p> <p><b>Assistência técnica:</b></p> <p>3Shape Soluções Tecnológicas para Saúde Ltda</p> <p>Avenida das Nações Unidas 12399</p> <p>Conjunto 101B Ed. Landmark</p> <p>São Paulo, SP, Brasil</p> <p>P: +55 11 3596.3879</p> |
| <b>Canada</b>    | <p>No in-country representative.</p> <p>Please contact <b>3Shape A/S</b> directly.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

|            |                                                                                              |
|------------|----------------------------------------------------------------------------------------------|
| <b>EU</b>  | <b>3Shape A/S</b><br>Holmens Kanal 7<br>1060 Copenhagen K<br>Denmark<br>Tel: +45 70 27 26 20 |
| <b>USA</b> | <b>Medicept</b><br>200 Homer Ave # M100-2<br>Ashland, MA 01721<br>Tel: (508) 231-8842        |

## 8 Warnings and Precautions



**Warning:** To obtain a healthy functioning restoration, it is critical to accurately detect the implant position and orientation. Therefore, ensure that correct alignment of an implant scan flag and its library model is achieved for each restoration in your order.



**Warning:** A dental restoration produced with a system using the Abutment Design software must be inspected by a certified dentist for correct fit, static and dynamic dental properties to ensure good patient health conditions.



**Warning:** To obtain a healthy functioning restoration, ensure that the emergence profile of your restoration is optimally contoured and shaped.



**Warning:** Examine the surface scan for image quality and ensure it includes all the areas required for the restoration design.