The TSV™ BellaTek® Encode® Impression System

Laboratory Manual For Encode Empowered Laboratories

ZIMMER BIOMET

Your progress. Our promise.®

Traditional And Stone Model Impressions

Traditional Impression

Inspect the case for an accurate impression of the TSV BellaTek Encode Healing abutment. Impressions of the TSV BellaTek Encode Healing Abutment codes must be clearly visible. The total circumference should be 1 – 2 mm above the soft tissue (1 mm minimum); codes should be visible with no rips, tears, bubbles or distortion.

Stone Model

Use low expansion die stone, for proper scanning, the case must provide the following:

1. Visibility of the Encode Healing Abutment showing 1 – 2 mm of the collar
2. A defect free occlusal surface and clear view of the surrounding tissue
3. No voids or bubbles in the stone

Weigh and measure die stone and water per the manufacturer's instructions. Allow the stone to fully set. Do not flip or mount casts prematurely.

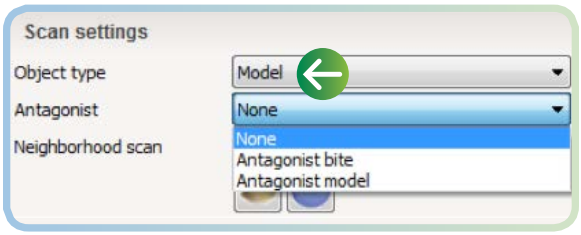
Mount the casts on an articulator compatible with Adesso Split Mounting plates using the bite registration.

Casts must be centered on mounting plates; the scanner reads where the plates are located. If the cast is off the plate, the case will not be scanned correctly.

Customized Abutment Order Creation In 3Shape

IMPORTANT: Prior to creating an order and designing the final abutment in 3Shape, look at the stone model to determine the implant type; TSV Implant connection is indicated by three (3) grooves on the occlusal portion of the screw.

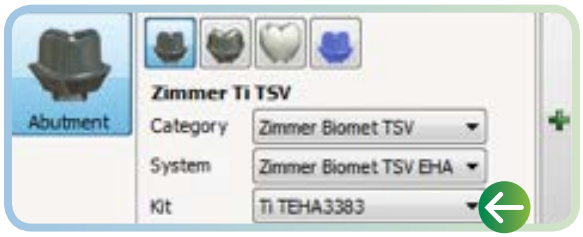
1. In the 'Scan settings' section of the menu, for 'Object type' select "Model". If antagonist is available, under 'Antagonist', select applicable options



2. Select the "Abutment" icon in the menu (customized abutment is selected by default)
3. Abutment Order Settings
   a. For 'Category', select "Zimmer Biomet TSV"

   b. For 'System', select "Zimmer Biomet TSV EHA"

c. For 'Kit', select the correct Encode Healing Abutment catalog code based on the code scheme. If necessary, measure the Emergence Profile to the correct diameter. **Refer to ZBINST0013 for TSV Encode Code Scheme Matrix**

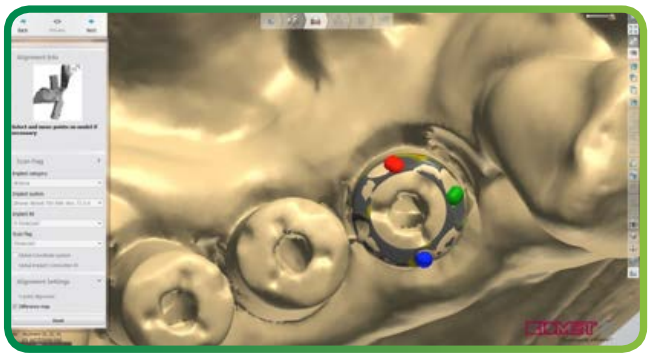


4. For cases requiring a 3D-printed model, click on 'model' icon in the menu Select 'Scan' to begin scanning

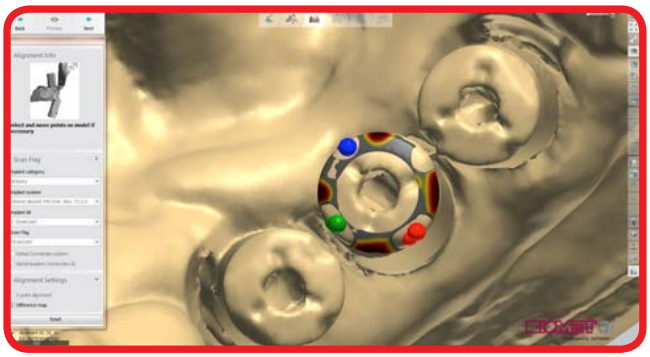
Customized Abutment Scanning

1. Insert the stone model with Encode Healing Abutment into the 3Shape scanner and scan
2. Scan antagonist/ bite registration, if available
3. Start the overview scan
4. Start detailed area scan
5. Start the alignment process
   a. To align an abutment click on "Alignment Setting"
   b. Select box for "Three point alignment"
   c. In the scanned EHA, select three (3) dots/positions on the codes
   d. In the virtual mode, select and position three (3) dots in the same location as in the step above
   e. The result of the alignment is displayed on the screen
6. Select "Difference map" or "2D Cross" to confirm accuracy of alignment:

Example of Difference Map - Successful Alignment:

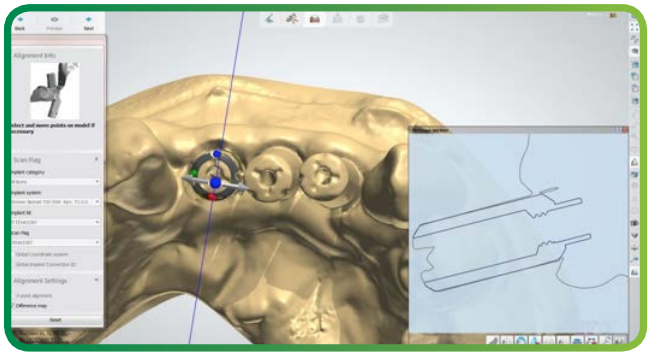


Example of Difference Map - Unsuccessful Alignment:

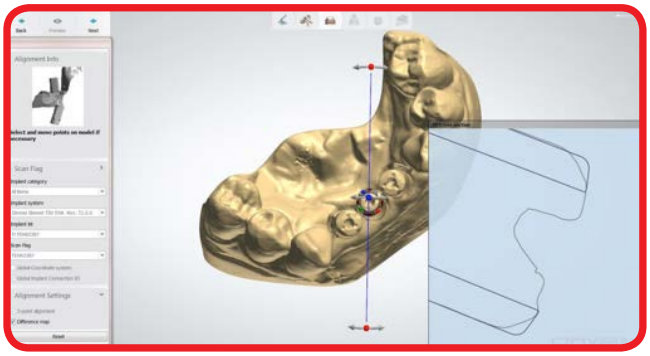


Traditional And Stone Model Impressions

Example of 2D Cross - Successful Alignment:



Example of 2D Cross - Unsuccessful Alignment:

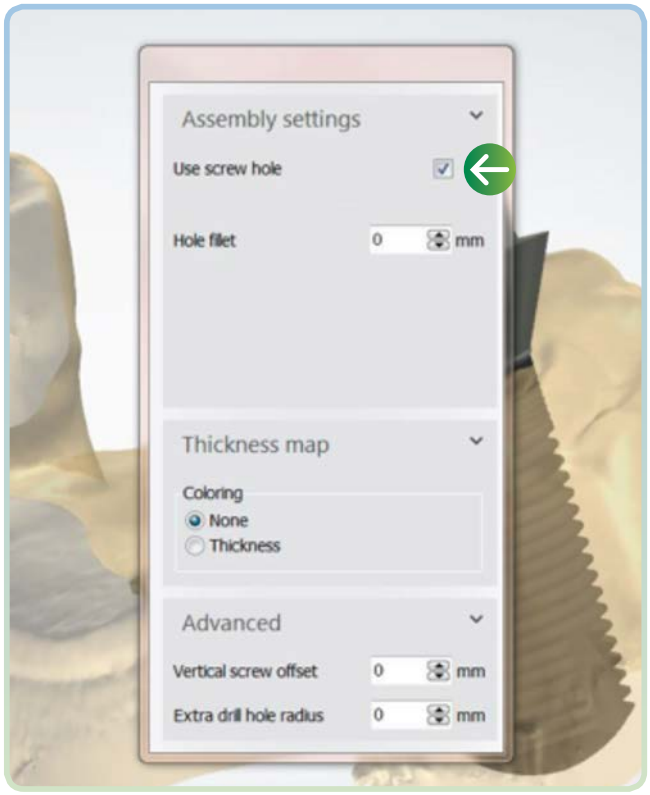


7. Complete the scanning

Abutment Design

1. Proceed with standard abutment design

   NOTE: If a Zirconia abutment is being designed, "Use screw hole" must be selected at all times.



NOTE: For cases requiring a model, please refer to 3Shape Modelbuilder instructions.
The 'Analog to Model Spacing' value defaults to "0.020 mm". If a tighter or looser fit of the model analog is required, then adjust the 'Analog to Model Spacing' value. The 'Protect Analog' option defaults to "True". The 'Protect Analog Distance' value defaults to "1.000 mm" and can be adjusted as desired.

2. Click "Next"

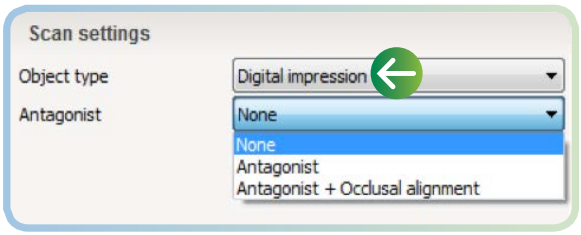
Submit Case Through Dental Manager

1. Send to manufacturer from your outbox to Zimmer Biomet Dental inbox

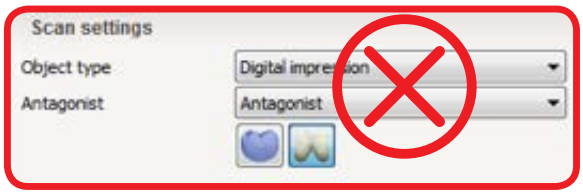
Customized Abutment Order Creation In 3Shape

IMPORTANT: Prior to creating an order and designing the final abutment in 3Shape, look at the .STL file to determine the implant type; TSV Implant connection is indicated by three (3) grooves on the occlusal portion of the screw.

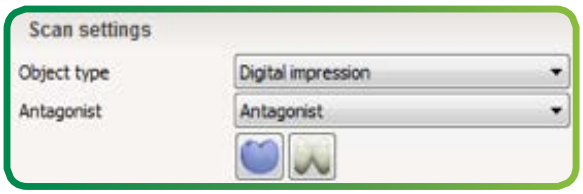
1. In the 'Scan settings' section of the menu, for 'Object type' select "Digital impression". If antagonist is available, under 'Antagonist', select applicable options



NOTE: "gingival scan" option is selected by default; this option should always be unselected when doing an IOS Impression case.



Incorrect



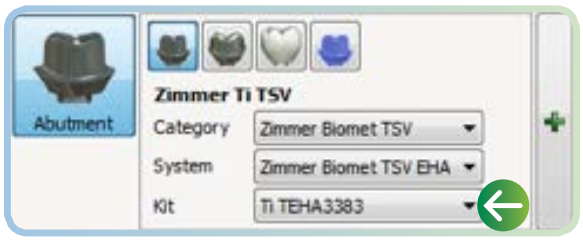
Correct

2. Select the "Abutment" icon in the menu ("Customized abutment" is selected by default)
3. Abutment Order Settings

a. For 'Category', select "Zimmer Biomet TSV"

b. For 'System', select "Zimmer Biomet TSV EHA"

c. For 'Kit', select the correct Encode Healing Abutment catalog code based on the code scheme. If necessary, measure the Emergence Profile to the correct diameter. **Refer to ZBINST0013 for TSV Encode Code Scheme Matrix**



4. For cases requiring a 3D-printed model, click on "Model" icon in menu

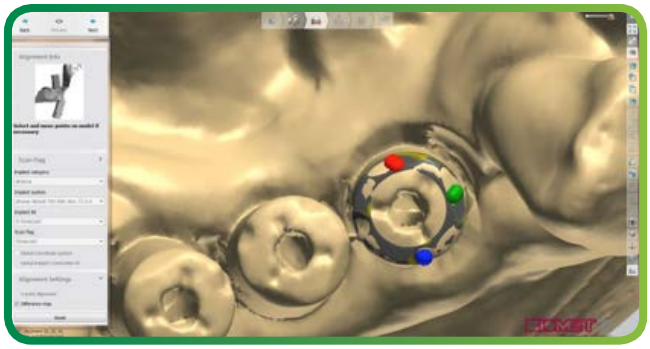
Intra-Oral Scanner Impression (Non-TRIOS)

Importing Intra-Oral Scan

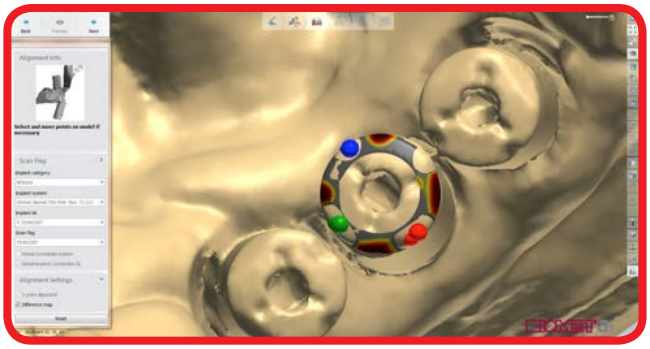
1. After order is created, in the 'Orders' section, right click on the order that has been created and select "Import scan" to load the .STL file. Order will appear with yellow exclamation point "!"

2. Right click order and select "Next" to begin alignment process
3. Start the alignment process
   a. To align an abutment click on "Alignment setting"
   b. Select box for "Three point alignment"
   c. In the scanned EHA, select three (3) dots/positions on the codes
   d. In the virtual mode, select and position three (3) dots in the same location as in the step above
   e. The result of the alignment is displayed on the screen
4. Select "Difference map" or "2D Cross" to confirm accuracy of alignment:

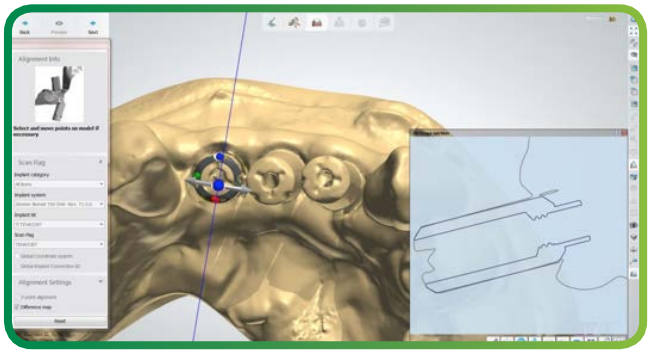
Example of Difference Map - Successful Alignment:



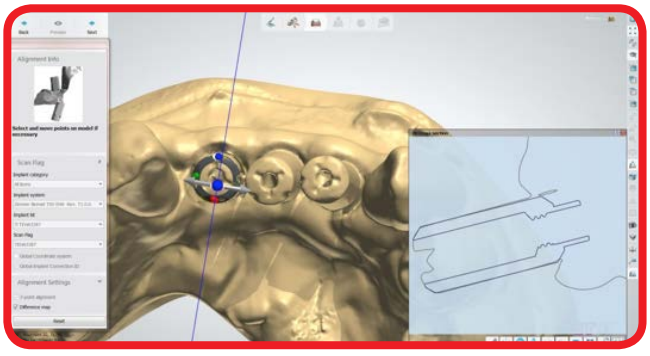
Example of Difference Map - Unsuccessful Alignment:



Example of 2D Cross - Successful Alignment:



Example of 2D Cross - Unsuccessful Alignment:

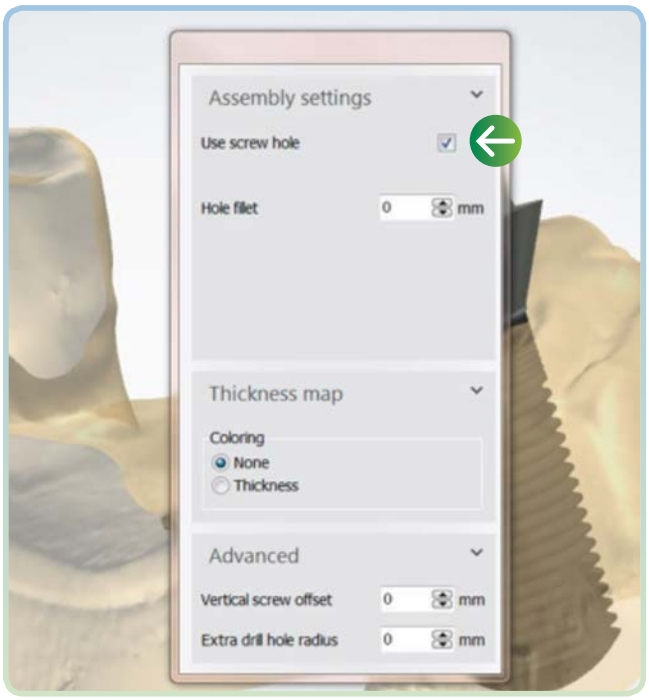


5. Complete the creation of the order

Abutment Design

1. Proceed with standard abutment design

   NOTE: If a Zirconia abutment is being designed, “Use screw hole” must be selected at all times.



   NOTE: For cases requiring a model, please refer to 3Shape Modelbuilder instructions.

   The ‘Analog to Model Spacing’ value defaults to “0.020 mm”. If a tighter or looser fit of the model analog is required, then adjust the ‘Analog to Model Spacing’ value. The ‘Protect Analog’ option defaults to “True”. The ‘Protect Analog Distance’ value defaults to “1.000 mm” and can be adjusted as desired.

2. Click “Next”

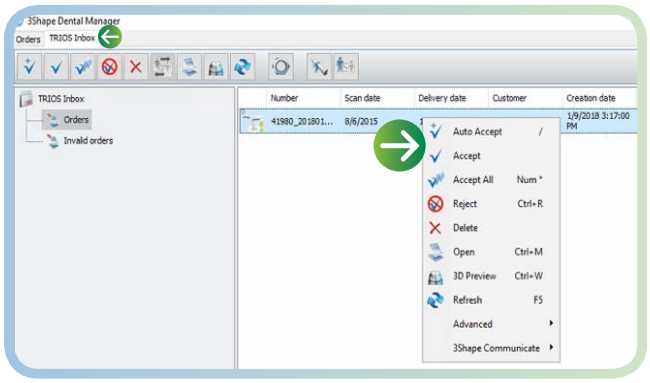
Submit Case Through Dental Manager

1. Send to manufacturer from your outbox to Zimmer Biomet Dental inbox

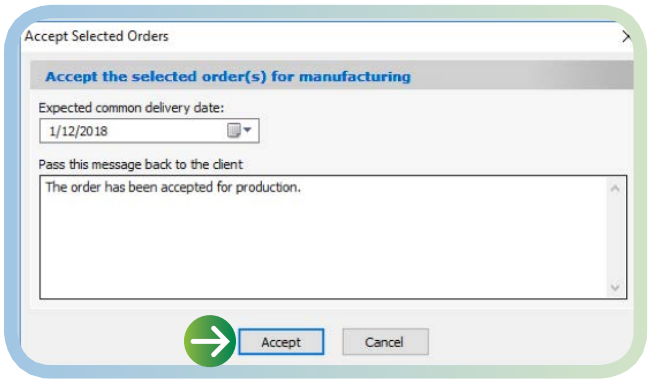
Intra-Oral Scanner Impression (TRIOS®)

Importing TRIOS Scan*

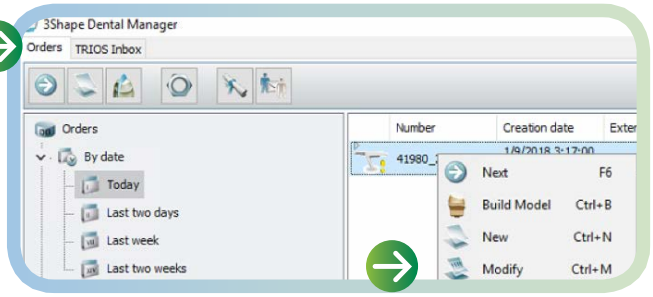
1. Open the 'TRIOS Inbox' tab, right click on the applicable case and select "Accept"



2. Select "Accept" for the following message in order to move the case into the 'Orders' tab and start order creation



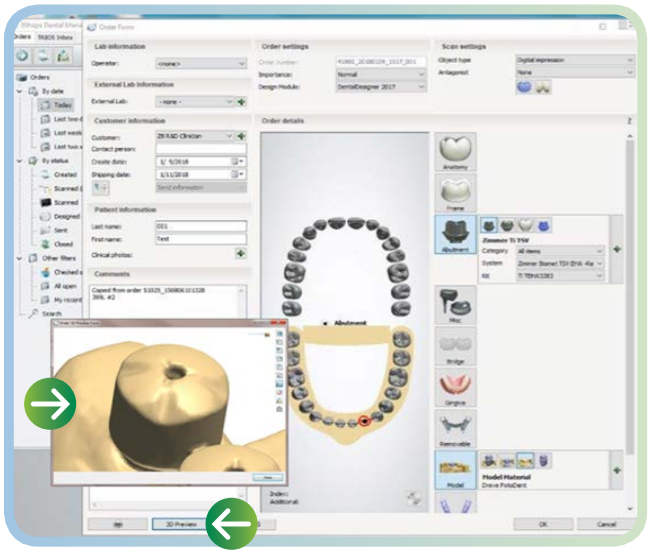
3. Once the case is in the 'Orders' tab, right click on the case and select "Modify"



*per 3Shape instructions

Customized Abutment Order Creation In 3Shape

IMPORTANT: Prior to modifying the order and selecting the correct kit, select "3D Preview" to view the scan and determine the implant type; TSV Implant connection is indicated by three (3) grooves on the occlusal portion of the screw.



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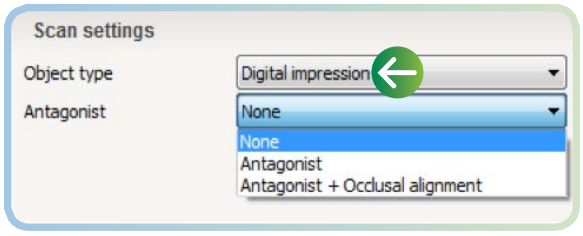

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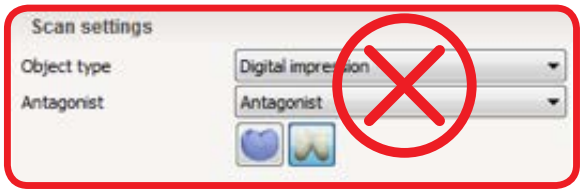
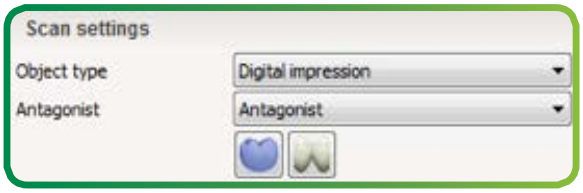


Incorrect



Correct

Intra-Oral Scanner Impression (TRIOS)

2. Select the “Abutment” icon in the menu (customized abutment is selected by default)
3. Abutment Order Settings
   a. For ‘Category’, select “Zimmer Biomet TSV”

   b. For ‘System’, select “Zimmer Biomet TSV EHA”

   b. For ‘Kit’, select the correct Encode Healing Abutment catalog code based on the code scheme. If necessary, measure the Emergence Profile to the correct diameter. **Refer to ZBINST0013 for TSV Encode Code Scheme Matrix**

4. For cases requiring a 3D-printed model, click on the “Model” icon in menu
5. Once order has been modified click “Next” to begin alignment process
6. Start the alignment process
   a. To align an abutment click on “Alignment setting”
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   c. In the scanned EHA, select three (3) dots/positions on the codes
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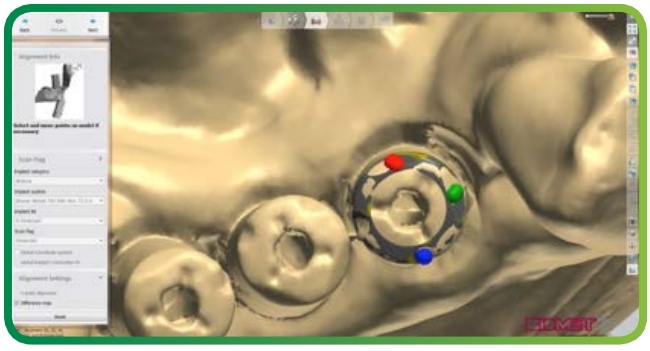
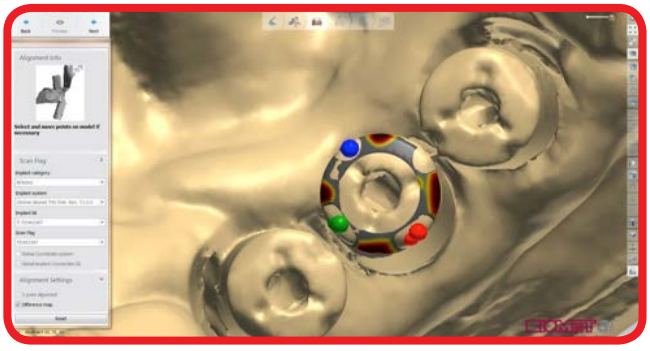


Example of Difference Map - Unsuccessful Alignment:



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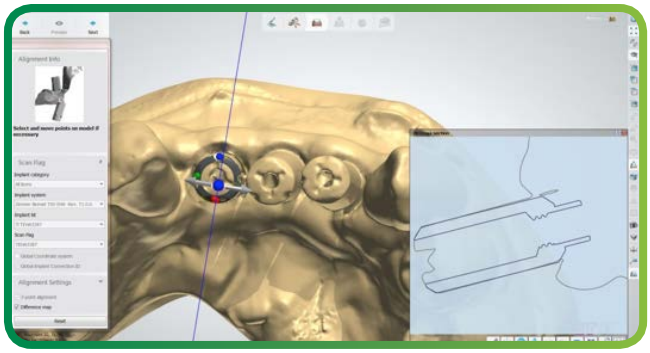
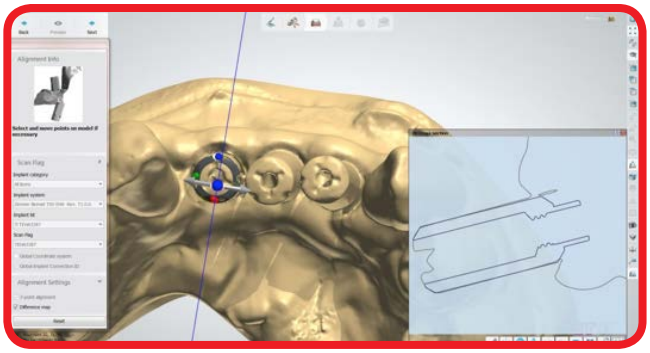


Example of 2D Cross - Unsuccessful Alignment:



8. Complete the creation of the order

Abutment Design

1. Proceed with standard abutment design

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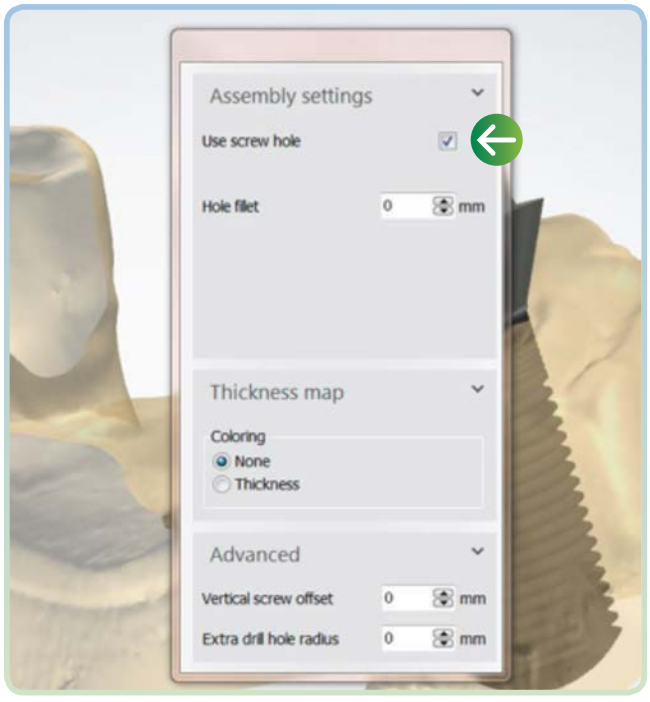

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2. Click "Next"

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1. Send to manufacturer from your outbox to Zimmer Biomet Dental inbox

ZIMMER BIOMET
Your progress. Our promise.

Contact us at 1-800-342-5454 or visit
zimmerbiometdental.com

Zimmer Biomet Dental
Global Headquarters
4555 Riverside Drive
Palm Beach Gardens, FL 33410
Tel: +561-776-6700
Fax: +561-776-1272

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