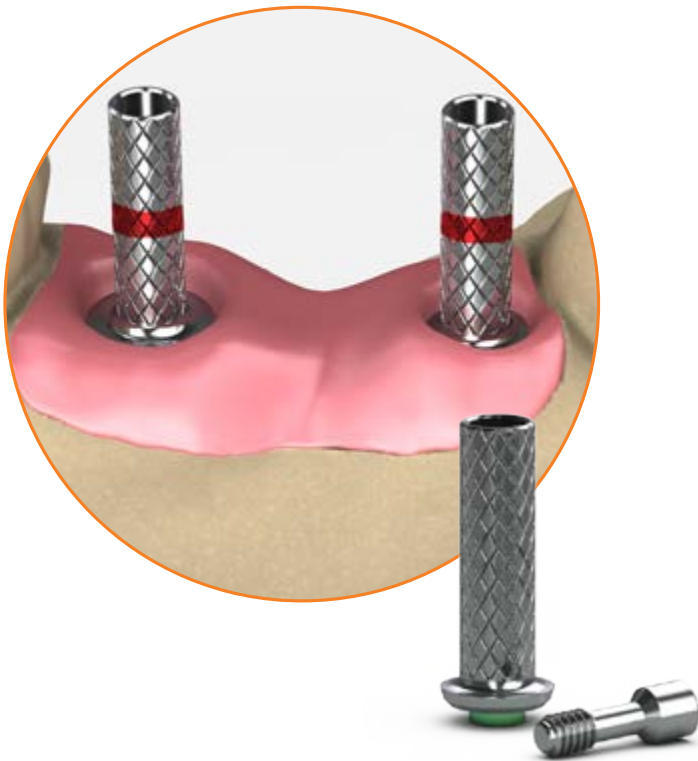


# screw-retained bridge using titanium temporary abutments

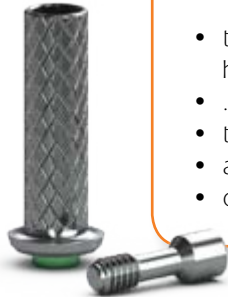


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## screw-retained bridge using titanium temporary abutments

Use titanium temporary abutments for the fabrication of screw-retained, single or multi-unit temporary restorations. Titanium temporary abutments may be used at the time of surgery, uncover, or following an implant-level impression. These abutments may also be utilized for fabricating provisional hybrid restorations.

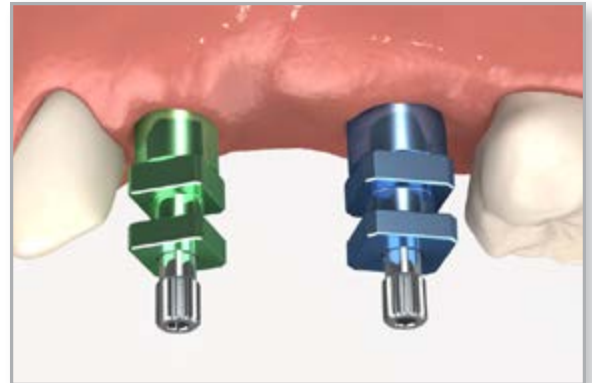


### component options

- titanium temporary abutments, hexed or non-hexed
- .050" (1.25mm) hex driver
- torque wrench
- abutment prepping handle
- direct coping screws

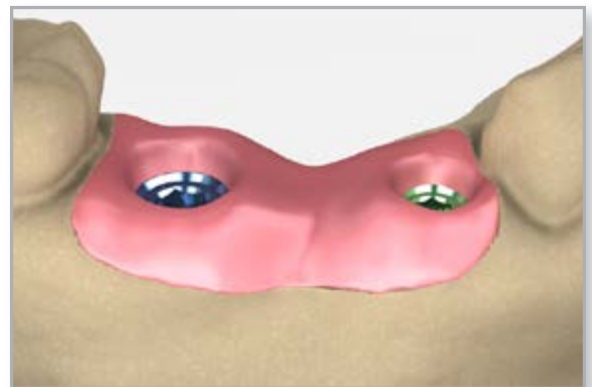
### 1 Clinical step - Make an implant-level impression

Remove the healing abutments and follow the steps for creating an implant-level impression using either the **open tray technique** using the **direct pick-up coping module** or the **closed tray technique** using the **indirect transfer coping module**.



### 2 Lab step - Pour the working model

Fabricate a working model following conventional laboratory procedures. A soft tissue model is recommended whenever the margins are subgingival. Follow the steps for creating an implant-level stone model (non-hexed) using either the **open tray technique** using the **direct pick-up coping module** or the **closed tray technique** using the **indirect transfer coping module**.





## screw-retained bridge using titanium temporary abutments

### 3A Lab step - Option A - Set the denture teeth

Set the denture teeth on the master model where the multiple-unit, screw-retained, temporary prosthesis will be fabricated.



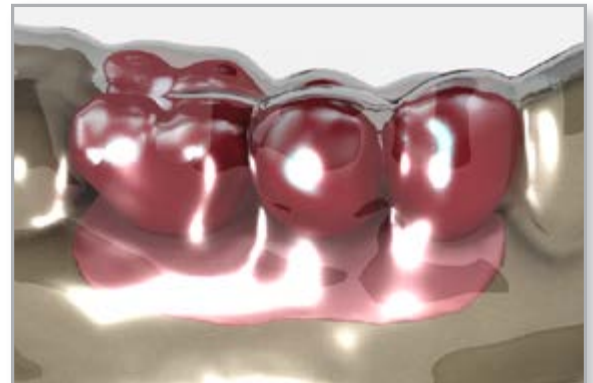
### 3B Lab step - Option B - Create a wax buildup

Use wax to build up and design the contours for the multiple-unit, screw-retained, temporary prosthesis.



### 4 Lab step - Create a template

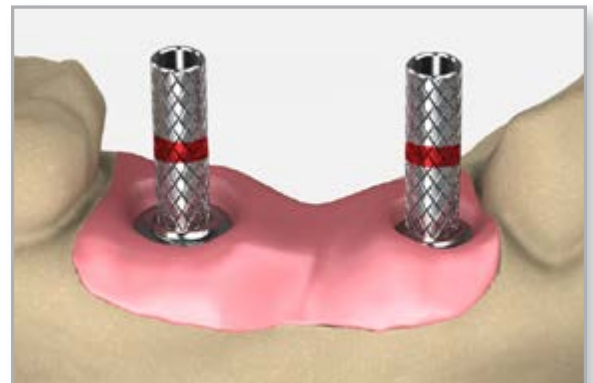
Make a vacuum-formed template, according to the manufacturer's instructions, over the denture teeth or waxed prosthesis and adjacent teeth.



### 5 Lab step - Select and mark the abutments

Seat the selected titanium temporary abutments (non-hexed for multiple units) onto the implant analogs in the working model. Hand tighten the abutment screws using an .050" (1.25mm) hex driver.

Determine the modifications needed to provide adequate room for the fabrication of the temporary bridge. Mark the abutments for the required vertical reduction.





## screw-retained bridge using titanium temporary abutments

### 6 Lab step - Modify the abutments

Modify the titanium temporary abutments using carbide burs, cut-off disks, or heatless stone wheels. Modify the height leaving the sleeve 1-2mm out of occlusion.



**Important:**  
Maintain at least 3mm of abutment height to avoid damaging the abutment screw.



**Helpful Hint:**  
The modified abutments may be "splinted" together with orthodontic wire or another material of choice to increase the strength of the temporary and to support the pontics.



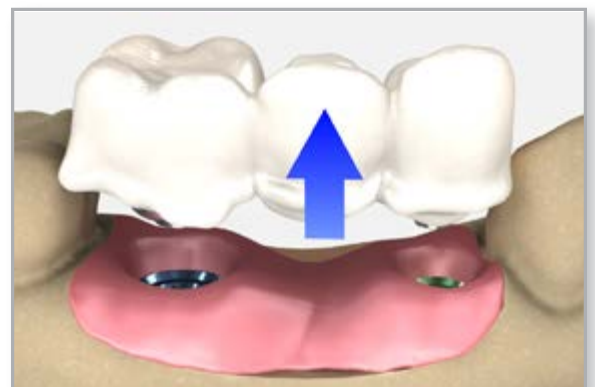
### 7 Lab step - Make the temporary

Modify the template by making holes in the occlusal surface for the direct coping screws in the same positions as the implants. Mix a material of choice and flow the material onto the modified titanium temporary abutments and inside the template to form the temporary bridge.



### 8 Lab step - Remove from the model

Remove the direct coping screws and the template from the working model using an .050" (1.25mm) hex driver. Remove the temporary bridge from the template and fill in any voids around the subgingival area and/or the abutments.





## screw-retained bridge using titanium temporary abutments

### 9 Lab step - Finish and polish the temporary

Remove any excess material, and contour and polish the temporary prosthesis. Place the bridge back onto the working model. Hand tighten using the abutment screws and an .050" (1.25mm) hex driver.

Adjust the temporary bridge as needed. Check the occlusion and contacts. There should only be light contact in centric occlusion and no contact in lateral excursions. Modify as necessary and polish after making adjustments.



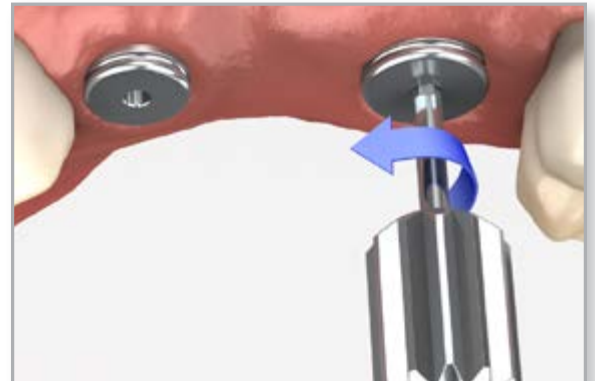
### send to clinician

- temporary bridge
- abutment screws
- working model

### 10 Remove the healing abutments

Remove the healing abutments using an .050" (1.25mm) hex driver. Make sure the implant prosthetic platform is free of bone and soft tissue.

Irrigate the internal connections of the implants and dry.



### 11 Seat the temporary

Sanitize the temporary prosthesis per standard clinical procedures. Place the temporary bridge onto the implants using the abutment screws and an .050" (1.25mm) hex driver. Hand tighten.

Take a radiograph along the long axis of the implant to ensure the bridge is seated completely onto the implants.



Note:

The X-ray tube must be positioned perpendicular to the implant prosthetic platform.

Modify as necessary and polish after making adjustments.







## screw-retained bridge using titanium temporary abutments

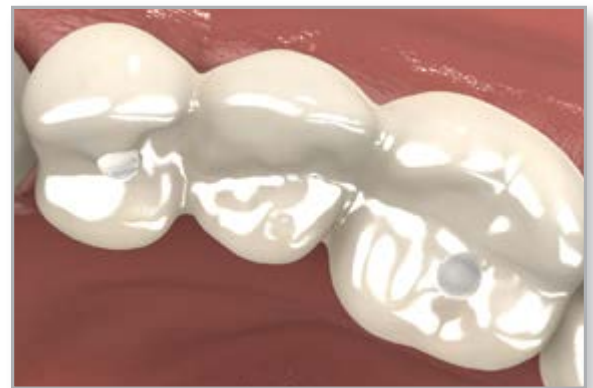
### 12 Tighten the abutment screws

Tighten the abutment screws to 30 Ncm using a calibrated torque wrench and an .050" (1.25mm) hex driver.



### 13 Fill the screw access channels

Place a resilient material of choice (gutta-percha, silicone or temporary filling material) into the screw access channels. This allows for easy access to the abutment screws in the future. Fill the remainder of the channels with a composite resin material of choice. Take an x-ray for final prosthesis delivery records.









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