

IMPLANTS

Prosthetic Technique Series

Fixed Porcelain Fused to Metal Bridge

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Before Implants Placed

1. Create Surgical Guide

Surgical Guides fabricated by the Aurum Ceramic/Classic Implant Team™ ensure extremely precise placement, resulting in greater longevity and more esthetically pleasing implants. A surgical guide can be created before implant placement by either:

- Making a clear duplicate of patient's existing denture *or*,
- Starting a new denture and taking it to try-in stage, then duplicating the try-in in clear acrylic (NOTE: Save try-in for use after implants have integrated). A Crown & Bridge wax-up can also be utilized.



Upper and lower models and a bite are required along with an indication of the proposed implant sites. For simple surgical guides, the Implant Team will drill a hole, place a metal cylinder or cut away the lingual of the tooth in the best position for the implant placement. The clear duplicate can be modified to meet clinician's preferences.



This can also be used as a radiographic guide (depending on clinician's preference, ball bearings, short lengths of wire, barium mixed with acrylic or radio opaque teeth can be placed at the proposed implant sites) for CT scans or x-rays in preparation for implant surgery.



After Implants Integrated

2. Take Fixture Level Impression

Take the preliminary fixture level polyvinyl siloxane impression (NOTE: Open Tray Impression preferred), impression of opposing dentition and bite if possible. Send to Aurum Ceramic/Classic accompanied by an x-ray showing the impression copings seated on the implants.



3. Verification Matrix fabricated based on impression and x-ray

The Aurum Ceramic/Classic Implant Team will fabricate a verification matrix consisting of the impression copings luted together with acrylic and then separated with a very thin disc.



4. Place Verification Matrix and Take Final Impression

The verification matrix insures exceptional accuracy particularly when working with multiple implants. The matrix is returned in

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position on the model. Upon receipt, remove from the model and place the separated copings intraorally in the same position, lute the pieces together with Fuji acrylic (less warpage than other acrylics) and take a final Open Tray polyvinyl siloxane (for best accuracy) impression making sure the coping screws are accessible. After the impression has set loosen the screws and remove the impression and return to the lab.

This invaluable step helps ensure the accuracy of the final impression and helps to eliminate the possibility the framework might have to be cut and luted back together at bar try-in stage.

5. Establish the Bite

If wax-up or try-in was done previously, this can be used to mount the master model and begin fabrication of the framework. Otherwise, a bite-rim that can be screwed onto the implants will be made and a new bite relation taken before the framework is fabricated.



6. Create and Matrix Wax-up

After the bite is established, the Aurum Ceramic/Classic Implant Team will fabricate a wax-up and matrix it for the fabrication of the custom abutments and bridge.



7. Custom Abutments Fabricated

The custom abutments are now fabricated to fall within the parameters of the wax-up. Once these are complete, an orientation matrix will be fabricated to allow the clinician to orientate the abutments in the mouth.



8. Bridge Framework Fabricated

Bridge substructure will be fabricated and preferably sent to the dental office for a final try-in of passive fit, esthetics and bite/occlusal acceptability. The substructure can also be fabricated to bisque bake or even finalized.



9. Final Prosthesis Processed

Once the final framework try-in is approved by doctor and patient, porcelain can be added and the case sent for insertion. The orientation matrix will accompany the case to orientate the abutments in the mouth with the same orientation as they had on the master model.

The matrix will arrive in position on the model with the abutments. Remove the abutment screw and remove the abutment and matrix as one unit from the model. Place the abutment and the matrix as one unit into the mouth in the same orientation as on the model. Finger tighten the abutment screw and take an x-ray to verify that the abutment is seated on the implant. Torque the abutment screw to the manufacturers' specifications. Cement the crown/bridge.

The prior careful verifications of fit and esthetics will result in a very straightforward insertion appointment.



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