custom (CAD/CAM) prosthetics overview

Digitally designed abutments for use with CAD/CAM Ti Blanks must be designed using appropriate design software (i.e. 3Shape, exocad) with appropriate library files installed. All digitally design files are to be sent to a BioHorizons validated milling center for manufacture.

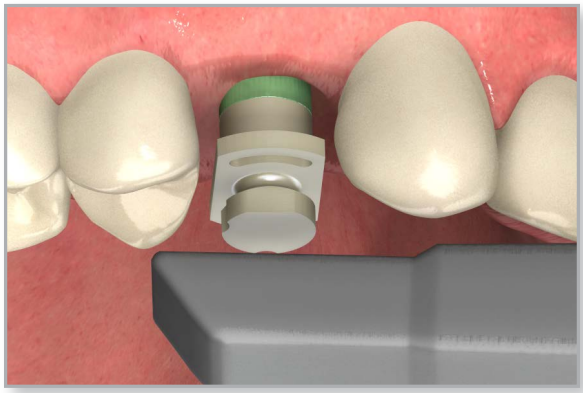
1 Digitize the impression

There are two primary ways to create a digital impression.

Option A - The first and most common method is to take an implant level impression, pour a stone model, place a scan body onto the implant analog and scan the model using a 3D tabletop digital scanner.

For implant level impressions, refer to the open tray technique using the direct pick-up coping module, the closed tray technique using the indirect transfer coping module and the closed tray pick-up technique using the snap coping module.

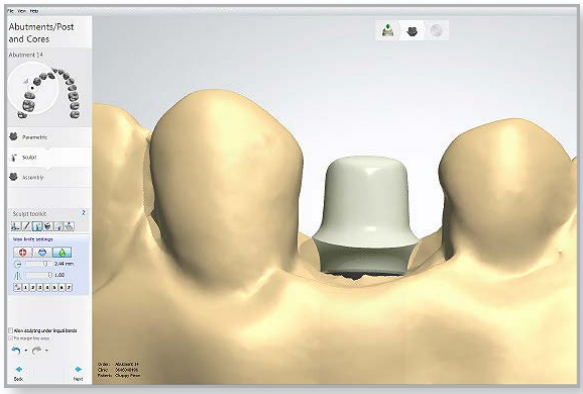
Option B - The second method is to take an intra-oral digital impression by placing a scan body into the implant and scan the scan body and surrounding dentition using a handheld 3D scanner. For digital impressions, refer to the digital or traditional impressions using the snap scan bodies module.



Important:
The scan body must be compatible with the scanner and have an associated abutment library in the design software.

2 Design the abutment

The file that is created during the digital impression is imported into the design software that will be used by the technician to design the custom abutment. Import the correct Ti Blank library for design. The crown may also be designed at this time depending on the desired workflow.



Note:
The restorative clinician should approve the design before milling the abutment or fabricating the crown.

customer care:
888.246.8338

custom (CAD/CAM) prosthetics overview

There are five steps to creating and delivering a custom (CAD/CAM) abutment and final restoration.

3 Mill the abutment

Once the abutment design is confirmed and approved, the file is sent to a validated milling center. After the milling is complete, a technician will inspect the abutment to ensure that it matches the original design.

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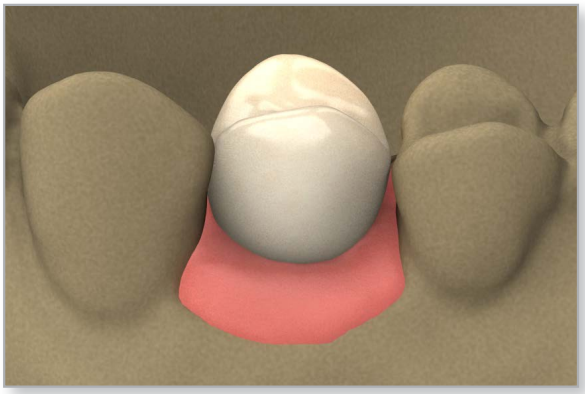
The abutment and abutment screw are sent to the laboratory for fabrication of the final crown.

4 Fabricate the crown

The laboratory will use the custom abutment and stone model to complete the crown following routine laboratory procedures.



5 Deliver custom abutment and crown

The custom abutment and crown should be sanitized per standard clinical procedures. The abutment screw should be tightened to 30Ncm using an .050" (1.25mm) hex driver. The final crown should be cemented following the crown cementation technique module.