

# custom tray fabrication



**BIOHORIZONS**<sup>®</sup>  
SCIENCE • INNOVATION • SERVICE



## custom impression tray fabrication

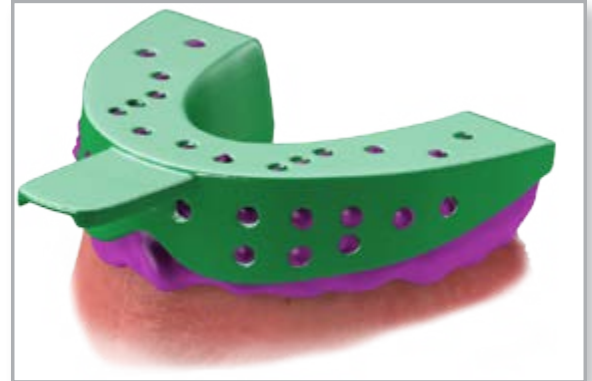
A dimensionally accurate impression is one of the primary determinants for precise-fitting indirect restorations. A custom tray will provide dimensional accuracy and stability allowing a uniform thickness of impression material.

Use one of these techniques to fabricate a custom impression tray to improve the accuracy of the working model for implant-supported restorations.

### option 1: starting with healing abutments

#### 1 Make a full-arch impression

Make a full-arch impression of the healing abutments connected to the implants and the surrounding soft tissue. Send the impression to the laboratory for fabrication of a model and custom impression tray.



#### 2 Lab step - Fabricate the stone model

Fabricate a working model in minimal-expansion, high-hardness die stone.



#### 3 Lab step - Block out the space for the copings

Block out the area above the healing abutments on the working model with baseplate wax to allow adequate space for the direct pick-up impression copings.

The direct pick-up impression copings are 11 mm in height. The depth of the tissue must be considered when blocking out the space for the copings on the working model.



#### 4 Lab step - Fabricate the custom tray

Fabricate a custom impression tray following conventional laboratory procedures. Make holes in the custom tray above the area of the implant healing abutments so the direct impression coping screw will protrude through the tray.





## custom impression tray fabrication

### option 2: starting with indirect copings

#### component options

- indirect scoop coping
- direct pick-up coping
- .050" (1.25mm) hex driver
- implant analog

#### 1 Make a full-arch impression

Make a full-arch implant-level impression using the **closed tray technique** using the **indirect transfer coping** module.

#### 2 Lab step - Fabricate the stone model & place the copings

Fabricate a working model in minimal-expansion, high-hardness die stone. Place direct copings onto the analogs in the stone model that was made using the **closed tray technique** using the **indirect transfer coping** module.

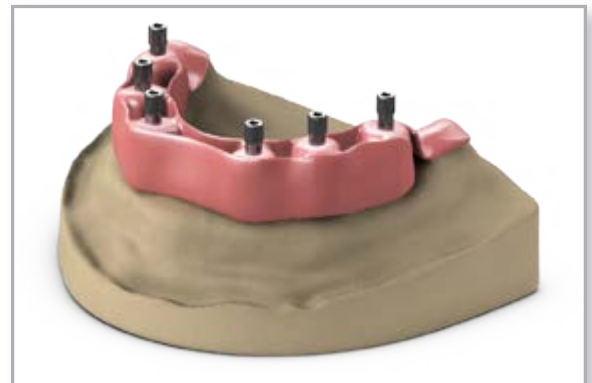
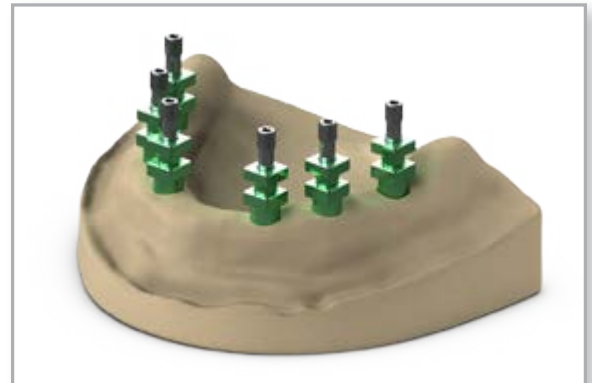
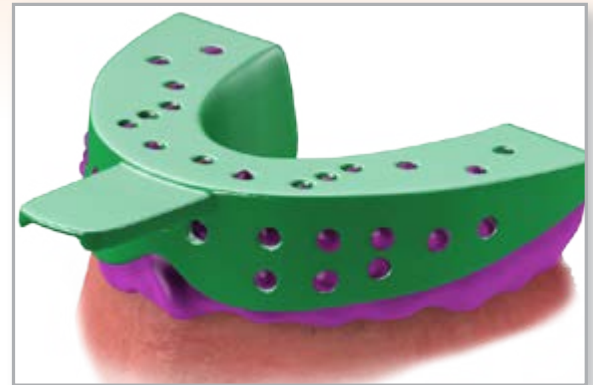
#### 3 Lab step - Place the wax spacer

Apply baseplate wax material around the copings extending far enough to the distal on each side to ensure an accurate intraoral seating along the retromolar pad.

#### 4 Lab step - Fabricate the custom tray

Fabricate a custom impression tray around the baseplate wax following conventional laboratory procedures. Remove the coping screws and separate the tray from the model. Remove the wax and copings from the tray. Enlarge the screw access holes if necessary.

Confirm accuracy and return to clinician.



## Direct Offices

**BioHorizons USA**  
888-246-8338 or  
205-967-7880

**BioHorizons Canada**  
866-468-8338

**BioHorizons Spain**  
+34 91 713 10 84

**BioHorizons UK**  
+44 (0)1344 752560

**BioHorizons Germany**  
+49 761-556328-0

**BioHorizons Chile**  
+56 (2) 23619519

**BioHorizons Italy**  
800-063-040

## Distributors

For contact information in our 90 countries, visit [www.biohorizons.com](http://www.biohorizons.com)



BioHorizons®, Laser-Lok®, MinerOss®, AutoTac®, Mem-Lok® and TeethXpress® are registered trademarks of BioHorizons. Unigrip™ is a trademark of Nobel Biocare AB. Zimmer® Dental ScrewVent® and Tapered ScrewVent® are registered trademarks of Zimmer, Inc. AlloDerm® and AlloDerm GBR® are registered trademarks of LifeCell Corporation. Grafton® DBM is a registered trademark of Medtronic, Inc. Spiralock® is a registered trademark of Spiralock Corporation. Pomalux® is a registered trademark of Westlake Plastics Co. Locator® is a registered trademark of Zest Anchors, Inc. Delrin® is a registered trademark of E.I. du Pont de Nemours and Company. Bio-Gide® is a registered trademark of Edward Geistlich Sohne AG Fur Chemische Industrie. Not all products shown or described in this literature are available in all countries. As applicable, BioHorizons products are cleared for sale in the European Union under the EU Medical Device Directive 93/42/EEC and the tissues and cells Directive 2004/23/EC. We are proud to be registered to ISO 13485:2003, the international quality management system standard for medical devices, which supports and maintains our product licences with Health Canada and in other markets around the globe. Original language is English. ©BioHorizons. All Rights Reserved.

This prosthetic technique module may contain references to the complete Prosthetic Manual (L02015).

To download the full Prosthetic Manual, please visit [www.biohorizons.com](http://www.biohorizons.com)



Made in  
the USA

shop online at  
**store.biohorizons.com**