SmartShape™ Healers digital & closed-tray impression workflows

The BioHorizons SmartShape healing system offers an anatomically designed healing abutment solution that is also integrated within digital restorative workflows. Healers are available in different profiles that are contoured to match natural tooth shapes to provide more esthetic tissue shaping. Once placed, the SmartShape healer can be scanned or impressed to transfer the implant position to a model. Custom abutments can be milled to match the anatomical profile of each healer and maintain the tissue contouring with the final restoration.

Easy identification & selection

SmartShape Healers are available in 6 different anatomical profiles across the 4 BioHorizons internal hex connections. Two height options are available to accommodate varying tissue thicknesses and implant placement protocols.

	Shape	Connections	Heights
A1	Maxillary Centrals (Sites 8, 9)		Regular & Tall
A2	Maxillary Laterals & Mandibular Incisors (Sites 7, 10, 23-26)		Regular & Tall
M1	Maxillary Canines (Sites 6,11)		Regular & Tall
M2	Premolars & Mandibular Canines (Sites 4-5, 12-13, 20-22, 27-29)		Regular & Tall
P1	Maxillary Molars (Sites 2-3, 14-15)		Regular & Tall
P2	Mandibular Molars (Sites 18-19, 30-31)		Regular & Tall

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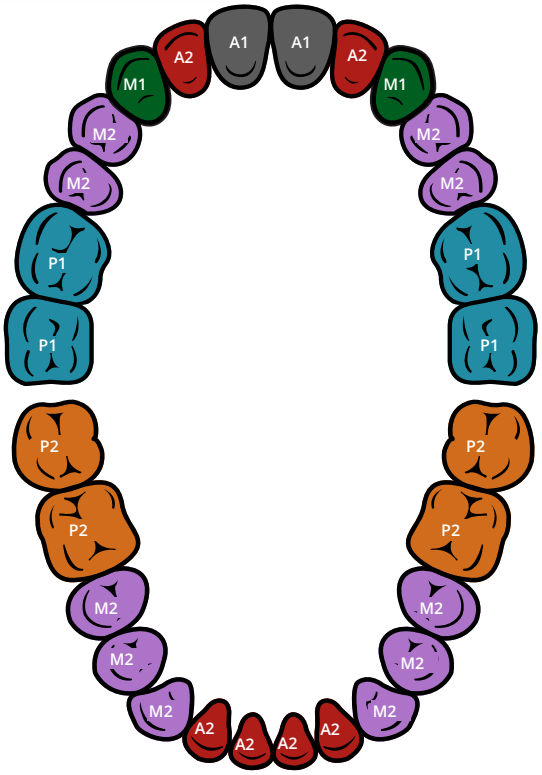
SmartShape Healer selection is determined by the anatomical position in the mouth for the best match between natural dentition and the abutment emergence profile.

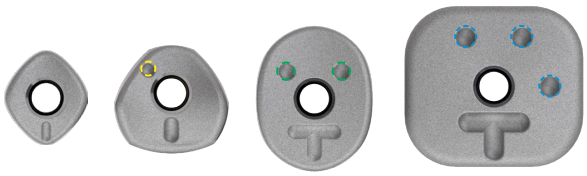
A1- Anterior 1 | A2- Anterior 2 | M1- Mid 1

M2- Mid 2 | P1- Posterior 1 | P2- Posterior 2



The implant platform is indicated by dimples on the occlusal surface.

No Dimple	3.0mm platform (Gray)	
1 Dimple	3.5mm platform (Yellow)	
2 Dimples	4.5mm platform (Green)	
3 Dimples	5.7mm platform (Blue)	

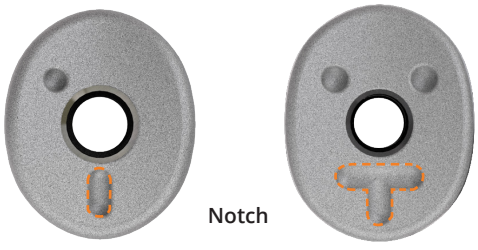


Important:
A notch is marked on the occlusal surface for indexing the healer profile and identifying the healer height.

The healer should be placed so the notch is perpendicular to the buccal plane.

Different tissue heights offer a solution for two implant position/depth options for varying tissue thickness and implant placement protocols.

I	Regular height
T	Tall height



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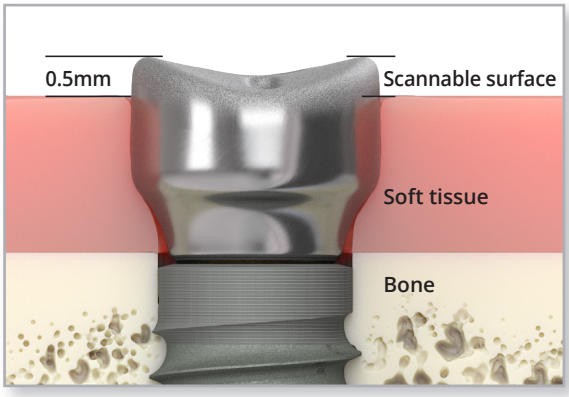
Digital impressions using SmartShape Healers

1 SmartShape Healer placement

Confirm the implant prosthetic platform is free of any bone debris or soft tissue. Place the SmartShape Healer with the occlusal notch perpendicular to the buccal plane. Verify the healer is fully seated, then hand tighten the screw with a .050" (1.25mm) hex driver.

Important:
Make sure the SmartShape Healer is seated properly, leaving 0.5mm of the scannable surface above the soft tissue.



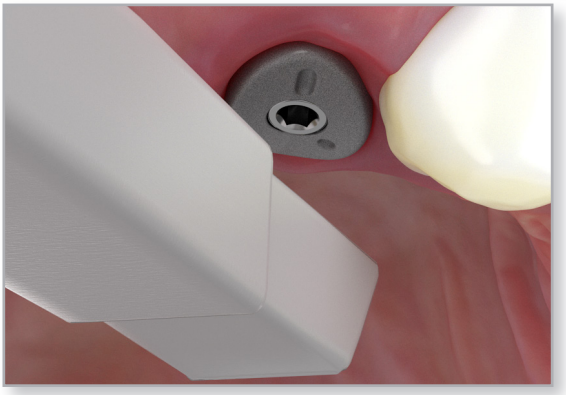
Helpful hint:
Take a radiograph along the long axis of the implant to ensure that the healer is seated completely into the hex of the implant. Note: The X-ray tube must be positioned perpendicular to the implant prosthetic platform.

Digital impressions using SmartShape Healers

2 Digitize the impression

Confirm the occlusal surface of the SmartShape Healer is free of any residue or debris. Take an intraoral digital impression of the healer and surrounding dentition using a handheld 3D scanner.

Important:
Ensure the lab has the digital library that is compatible with the scan body. The BioHorizons digital library can be downloaded from vulcandental.com/DigitalLibraries.



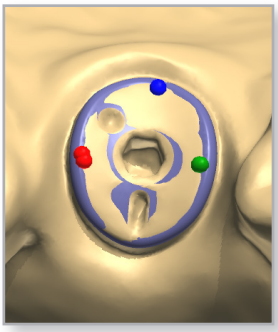
Import into CAD software

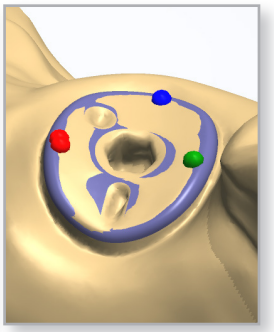
- Digital impression of SmartShape Healer
- Opposing intraoral scan or model
- Prescription with lab instructions including SmartShape Healer height, anatomical shape and platform size (or product code)

3 Verify alignment & platform size

Correct alignment

Correct alignment is indicated by a match between the SmartShape Healer and scan throughout all regions. This requires selecting the correct anatomical shape, platform and height, which should be recorded in the prescription. Once the platform, height and alignment have been verified the lab can continue with the design process.

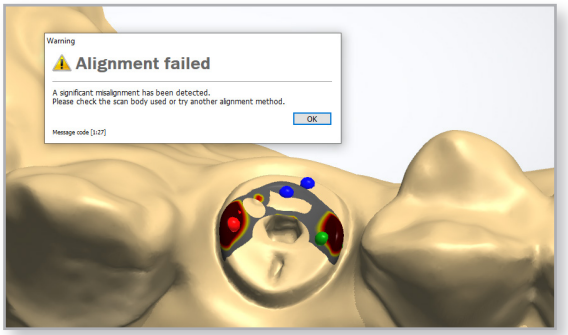




Helpful hint:
The occlusal dimples and notches are only used for visual identification of the healer. Since these features are not used in the digital alignment process, it is recommended to select points along the healer's anatomical profile to initiate alignment.

Misalignment

Misalignment is visible in red when the incorrect shape is selected. Visual confirmation is required to ensure that the correct height (buccal notch) and platform (dimples) have been selected.



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Closed-tray impression using the SmartShape Healers

1 SmartShape Healer placement

Confirm the implant prosthetic platform is free of any bone debris or soft tissue. Place the SmartShape Healer with the occlusal notch perpendicular to the buccal plane. Verify the healer is fully seated and hand tighten the screw with a .050" (1.25mm) hex driver.

Important:
Make sure the SmartShape Healer is seated properly, leaving the scannable surface a minimum of 0.5mm above the soft tissue.

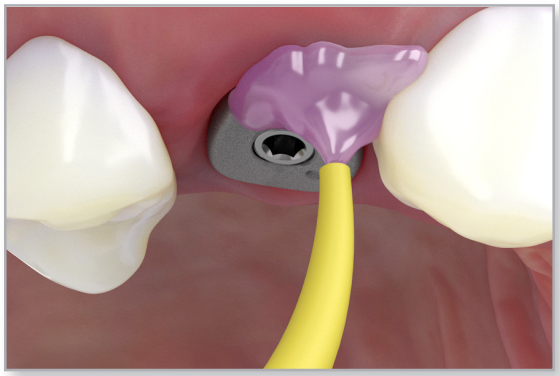
Helpful hint:
Take a radiograph along the long axis of the implant to ensure the abutment is seated completely into the hex of the implant. Note: The X-ray tube must be positioned perpendicular to the implant prosthetic platform.

2 Make a full-arch impression

Syringe a medium-body elastomeric impression material around and over the SmartShape Healer. Load the tray with the same impression material and take the impression.

After the impression material has set, remove the tray from the mouth with the embedded impression of the the SmartShape Healer.

Confirm no distortions are present on the impression and that it captured the entire SmartShape Healer occlusal surface and surrounding tissue.



Send to lab

- Impression of SmartShape Healer
- Opposing model or impression
- Prescription with lab instructions including SmartShape Healer height, anatomical shape and platform size (or reference number)

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Closed-tray impression using the SmartShape Healers

3 Lab step – scan the closed-tray impression

There are two primary ways to digitize the traditional impression.

Option A: Pour a stone model from the impression to replicate the abutment. Use a 3D tabletop digital scanner to scan the stone model.

Option B: Use a 3D tabletop digital scanner to directly scan the impression material. *Note that this may require specialized software or scanner settings.*

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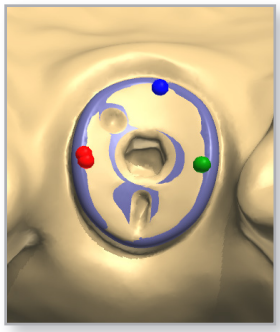

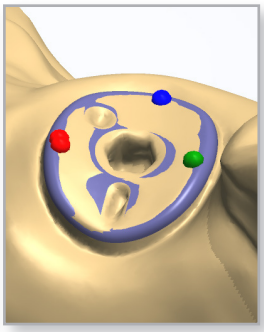

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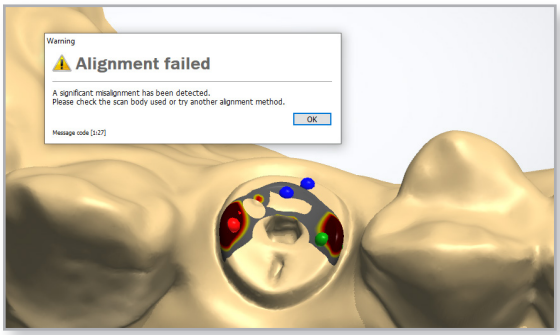

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