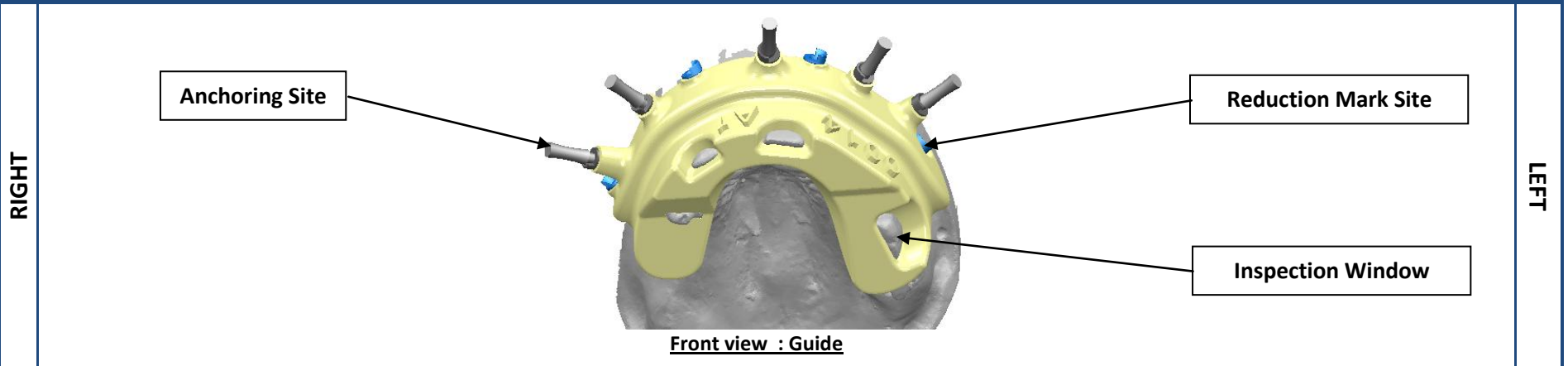


Case Information					
Clinician	Dr Michael Morgan	Customer ID #	2160002	Patient	Raquel Swan
E-mail Address	infomhmds@gmail.com	Phone #	(216) 642-9111	Treated arch	Maxilla
GSI Version	1600014- 01-GSI-01	Approved TPA	<a href="#">1600014-01-TPA-01</a>	Guides	SG-T+R / SG-BRJ / SG-G / SG-C

V2R® Guided Surgery Solution Overview										
IMPLANTS	Sites (US/FDI/Alpha)	3/16/A	7/12/B	10/22/C	14/26/D					
	Manufacturer	NobelBiocare	NobelBiocare	NobelBiocare	NobelBiocare					
	Line	NB_Active	NB_Active	NB_Active	NB_Active					
	Diameter x Length	3.5x13	3.5x13	3.5x13	3.5x13					
ABUTMENTS	Part ID	34127	34127	34127	34127					
	Manufacturer	NobelBiocare	NobelBiocare	NobelBiocare	NobelBiocare					
	Line	MUA	MUA	MUA	MUA					
	Platform	NP	NP	NP	NP					
	Cuff Height (mm)	3.5	2.5	2.5	3.5					
	Angulation (°)	30	17	17	30					
MAIN GUIDED SURGERY KIT	Part ID	36620	36614	36614	36620					
	Manufacturer	NobelBiocare	NobelBiocare	NobelBiocare	NobelBiocare					
	Drill Handle Type	NP	NP	NP	NP					
	Final Drilling Length	23 mm	23 mm	23 mm	23 mm					
	Guided Surgery Solution Features	Reduction:4mm	Reduction:6mm	Reduction:6mm	Reduction:5mm					
		Osteotomy	Osteotomy	Osteotomy	Osteotomy					
		Insertion	Insertion	Insertion	Insertion					
		-	-	-	-					
SURGICAL PROCEDURE OUTLINE	Step 1 - Surgery	Guide anchor & reduction mark preparation <ul style="list-style-type: none"> <li>Surgical Guide 1: SG-T+R, Teeth-supported guide, Lot # 0014A1 ; Main Kit: BioHorizons - Pilot drills &amp; fixation pins</li> </ul>								
	Step 2 - Surgery	Ridge adaptation <ul style="list-style-type: none"> <li>Surgical Guide 2: SG-BRJ, Pin-supported bone reduction verification jig, Lot # 0014A2; Main Kit: BioHorizons - Pilot drills &amp; fixation pins</li> <li>Flap separation, teeth extraction, ridge reduction according to the prepared marks and verification using the provided jig.</li> </ul>								
	Step 3 - Surgery	Implant placement <ul style="list-style-type: none"> <li>Surgical Guide 3: SG-G, Pin-supported guide, Lot # 0014A3; Main Kit: Nobel Biocare – NobelActive Guided Kit</li> <li>Guided implant osteotomy &amp; insertion.</li> </ul>								
	Step 4 - Prosthetics	Abutment & provisional prosthesis installation <ul style="list-style-type: none"> <li>Surgical Guide 4: SG-C, Pin-supported guided prosthesis, Lot # 0014A4 ; Main Technique: NobelBiocare All-on-4</li> <li>Guided establishment of the occlusion, conversion of the guide into the provisional prosthesis &amp; loading of the implants.</li> <li>Key Information: It is the clinician's sole responsibility to verify the case's compliance with the technical and clinical requirements of the chosen immediate loading technique prior to loading the implants.</li> </ul>								

## Step 1 - Surgery – Guide anchor & reduction mark preparation

### V2R® Surgical Guide SG-T+R Lot # 0014A1



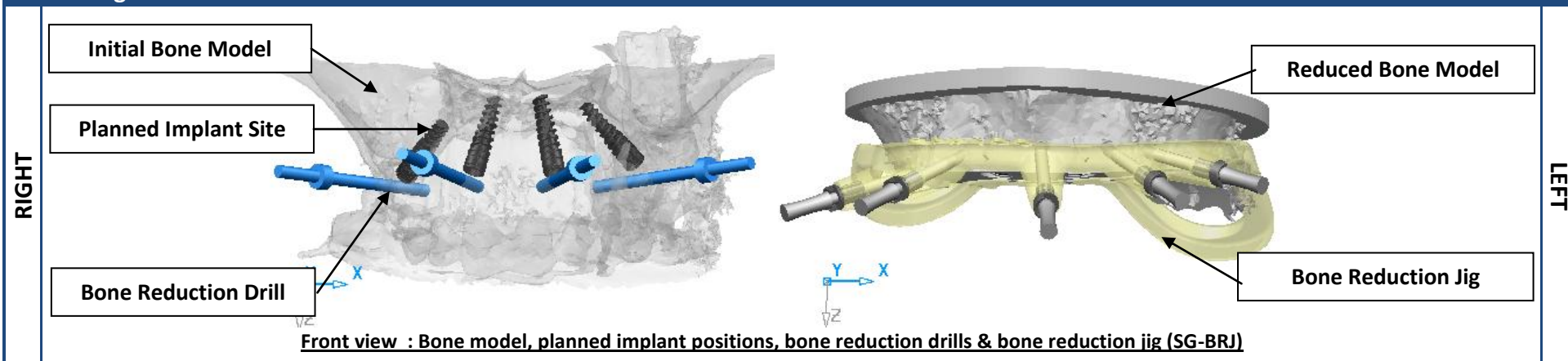
Material	<ul style="list-style-type: none"> <li>V2R® Surgical Guide SG-T+R Lot # 0014A1</li> <li>Main Surgical Kit: BioHorizons – Pilot drills &amp; fixation pins</li> <li>(5x) BioHorizons Fixation Pin - 2.0mm D x 24mm L (ID# CGS-FP);</li> <li>(1x) BioHorizons Pilot Drill - 2.0mm D x 24mm L (ID# 122-024);</li> <li>(1x) BioHorizons Pilot Drill - 2.0mm D x 21mm L (ID# 122-021);</li> </ul>	Documents	<ul style="list-style-type: none"> <li>Main Surgical Kit Instructions for Use: <i>Download the documentation from the manufacturer's website:</i> <a href="#">BioHorizons Guided Surgery Kit Catalog &amp; Manual</a> (LINK)</li> </ul>
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Procedure	<ul style="list-style-type: none"> <li><b>Seating</b> - Proceed to the seating of the surgical guide onto the patient's ridge. Verify the fit through the inspection windows and on the periphery of the interface. <i>*Note: The fit of the surgical guide must be identical both onto the patient and onto the model. Obtaining a reproducible fit is crucial for the surgical outcome.</i></li> <li><b>Drilling</b> - Using the pilot drill, prepare all anchoring sites by drilling to full depth.</li> <li><b>Anchoring</b> - Insert the pins through the guide into their respective anchoring sites, in a non-sequential manner by alternating left and right sites. <i>*Note: Stable anchoring of the surgical guide is crucial for the surgical outcome.</i></li> <li><b>Drilling</b> - Using the pilot drill, prepare all reduction marks by drilling to full depth. <i>*Note: In the event of interference with remaining teeth, the partial depth mark could be finalized after extraction by reinstalling the guide and drilling to full depth.</i></li> <li><b>Removal</b> - Remove all pins and retrieve the surgical guide</li> </ul>
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Sites (US/FDI/Alpha)	3/16/A	AP1	AP2	7/12/B	AP3	10/22/C	AP4	AP5	14/26/D	
Feature	Reduction	Anchoring	Anchoring	Reduction	Anchoring	Reduction	Anchoring	Anchoring	Reduction	
Pilot Drill	2.0 x 21	2.0 x 24	2.0 x 24	2.0 x 21	2.0 x 24	2.0 x 21	2.0 x 24	2.0 x 24	2.0 x 21	
Anchoring Part	-	CGS-FP	CGS-FP	-	CGS-FP	-	CGS-FP	CGS-FP	-	

## Step 2 - Surgery – Ridge adaptation

V2R® Surgical Guide SG-BRJ Lot # 0014A2

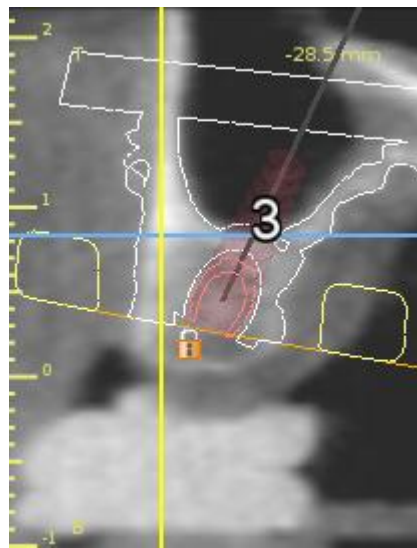


<b>Material</b>	<ul style="list-style-type: none"> <li>V2R® Surgical Guide SG-BRJ Lot # 0014A2</li> <li>Main Surgical Kit: BioHorizons – Pilot drills &amp; fixation pins</li> <li>(5x) BioHorizons Fixation Pin - 2.0mm D x 24mm L (ID# CGS-FP);</li> <li>(1x) BioHorizons Pilot Drill - 2.0mm D x 24mm L (ID# 122-024);</li> <li>(1x) BioHorizons Pilot Drill - 2.0mm D x 21mm L (ID# 122-021);</li> </ul>	<b>Documents</b>	<ul style="list-style-type: none"> <li>Main Surgical Kit Instructions for Use: Download the documentation from the manufacturer's website: <a href="#">BioHorizons Guided Surgery Kit Catalog &amp; Manual</a> (LINK)</li> </ul>
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<b>Procedure</b>	<ul style="list-style-type: none"> <li><b>Flap</b> - Proceed to the separation of the flap along the region prone to be reduced.</li> <li><b>Extractions</b> - Proceed to the extraction of all remaining teeth.</li> <li><b>Drilling</b> - Optionally, the reduction marks can be finalized by reinstalling the guide and by drilling the reduction sites using the specified drill.</li> <li><b>Reduction</b> - The approximate height of bone to be reduced at the planned implant sites is provided in the chart below.</li> <li><b>Seating</b> - Select a well defined anchoring site entry point, align the guide with the patient's exposed ridge, and insert a pin through the guide and into the corresponding anchoring site. The remaining pins should be inserted into their respective sites in a non-sequential manner, alternating left and right sites.</li> <li><b>Verification</b> – Inspect the ridge to ensure that the bone level coincides with the guide's surface, and make adjustments if needed.</li> <li><b>Removal</b> - Remove all pins and retrieve the surgical guide.</li> </ul> <p><i>*Note: Make sure to preserve the bone around every anchoring entry point while reducing the crestal bone.</i></p> <p><i>*Note: Conservative bone reduction was planned distally to sites 3 &amp; 14. Further adjustment to the ridge the ridge, up to 2mm distally to sites 3 &amp; 14, may be needed to solve potential interference with the tools (Guide, surgical kit) used at Step 3. Additional views featuring the Step 3 tools (in blue), the planned reduction level (in orange) and its distance with the sinus cavity are provided herein.</i></p>
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Sites (US/FDI/Alpha)	3/16/A	AP1	AP2	7/12/B	AP3	10/22/C	AP4	AP5	14/26/D	
Feature	Reduction	Anchoring	Anchoring	Reduction	Anchoring	Reduction	Anchoring	Anchoring	Reduction	
Pilot Drill	2.0 x 21	-	-	2.0 x 21	-	2.0 x 21	-	-	2.0 x 21	
Reduction Height	4 mm	-	-	6 mm	-	6 mm	-	-	5 mm	

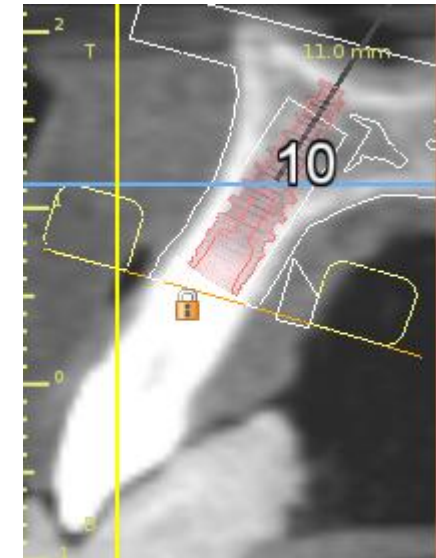
**Step 2 - Surgery – Ridge adaptation**  
**V2R® Surgical Guide SG-BRJ Lot # 0014A2**



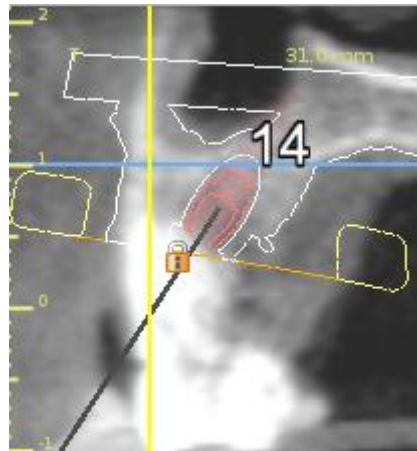
Cross-section view – Site 3/A



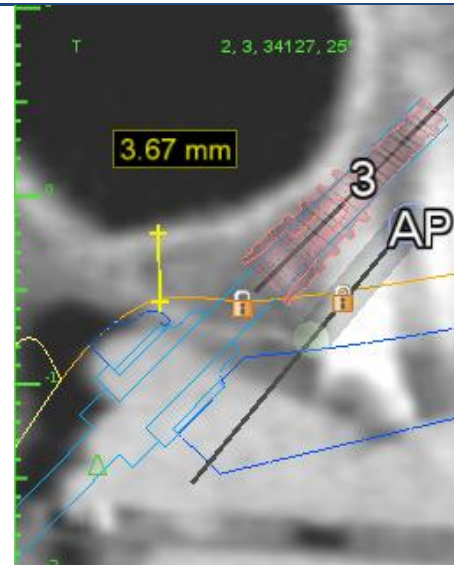
Cross-section view – Site 7/B



Cross-section view – Site 10/C



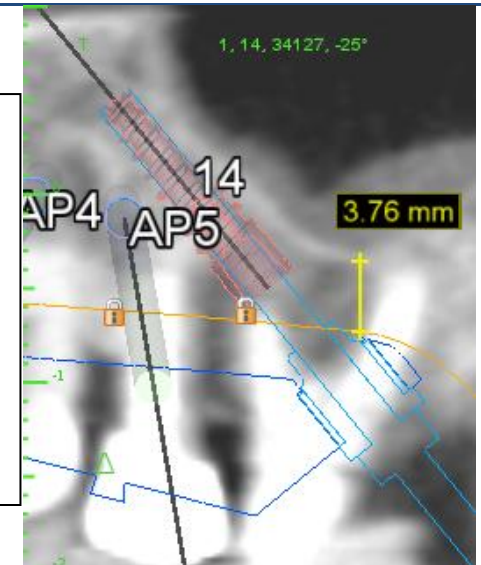
Cross-section view – Site 14/D



Tangential view – Site 3/A

The ridge could be reduced by an additional 2 mm distally to sites 3 & 14 to solve any tool interference.

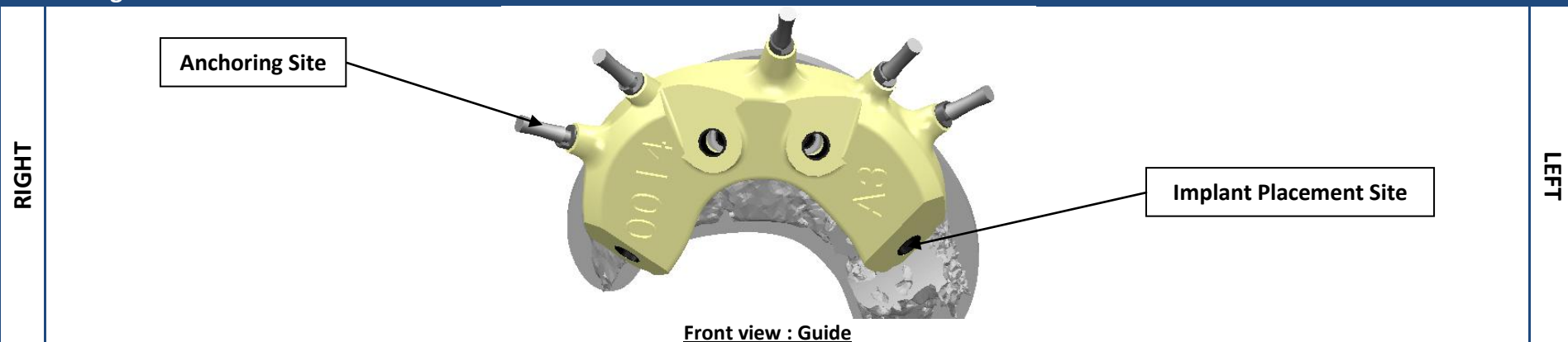
Both sites present approximately 3.5mm of bone between the planned reduction level and the sinus.



Tangential view – Site 14/D

Cross-section views : Planned implant positions, bone reduction level (orange) & bone reduction jig (yellow)

## Step 3 – Surgery - Implant placement V2R® Surgical Guide SG-G Lot # 0014A3



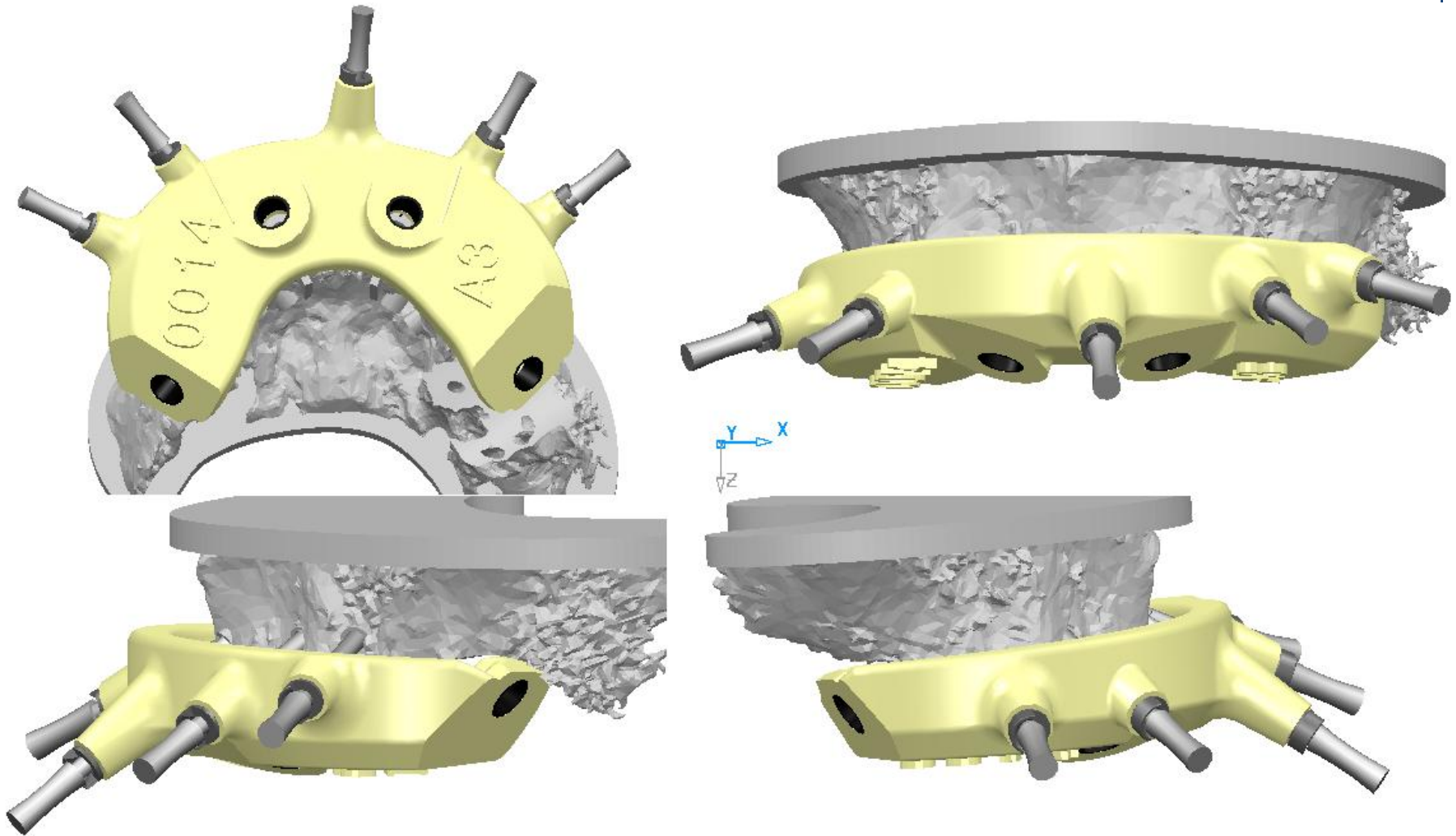
<b>Material</b>	<ul style="list-style-type: none"> <li>V2R® Surgical Guide SG-G Lot # 0014A3</li> <li>Main Surgical Kit: Nobel Biocare NobelActive Guided Kit</li> <li>(5x) BioHorizons Fixation Pin - 2.0mm D x 24mm L (ID# CGS-FP);</li> <li>(1x) BioHorizons Pilot Drill - 2.0mm D x 24mm L (ID# 122-024);</li> <li>All parts listed in the chart below;</li> </ul>	<b>Documents</b>	<ul style="list-style-type: none"> <li>Main Surgical Kit Instructions for Use: <i>Download the documentation from the manufacturer's website:</i> <a href="#">Nobel Biocare Document Library</a> (LINK)</li> <li>Implant instructions for use.</li> </ul>
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<b>Procedure</b>	<ul style="list-style-type: none"> <li><b>Seating &amp; Anchoring</b> - Select a well defined anchoring site entry point, align the guide with the patient's exposed ridge, and insert a pin through the guide and into the corresponding anchoring site. Stabilize the guide using cotton pads if necessary. The remaining pins should be inserted into their respective sites in a non-sequential manner, alternating left and right sites.</li> <li><b>*Note:</b> <i>Stable anchoring of the guide is crucial for the surgical outcome.</i></li> <li><b>Drilling</b> - Proceed to guided implant osteotomy according to the chart below and the implant manufacturer's instructions for use;</li> <li><b>Insertion</b> - Proceed to guided implant insertion according to the chart below and the implant manufacturer's instructions for use</li> <li><b>*Note:</b> <i>The indexing of each implant's internal connection can be adjusted by aligning a hex flat with the rectangular marks featured on the provided bone model. Refer to the views provided at Step 4 herein.</i></li> <li><b>Removal</b> - Remove all pins and retrieve the surgical guide.</li> </ul>
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Sites (US/FDI/Alpha)	3/16/A	7/12/B	10/22/C	14/26/D						
<b>Manufacturer</b>	NobelBiocare	NobelBiocare	NobelBiocare	NobelBiocare						
<b>Implant line</b>	NB_Active	NB_Active	NB_Active	NB_Active						
<b>Diameter x Length</b>	3.5x13	3.5x13	3.5x13	3.5x13						
<b>Part ID</b>	34127	34127	34127	34127						
<b>Manufacturer</b>	NobelBiocare	NobelBiocare	NobelBiocare	NobelBiocare						
<b>Drill Handle Type</b>	NP	NP	NP	NP						
<b>Drill Length</b>	23 mm	23 mm	23 mm	23 mm						
<b>Guided Surgery Kit</b>	<b>Guided Surgery Solution Features</b>	Osteotomy	Osteotomy	Osteotomy	Osteotomy					
		Insertion	Insertion	Insertion	Insertion					
		-	-	-	-					

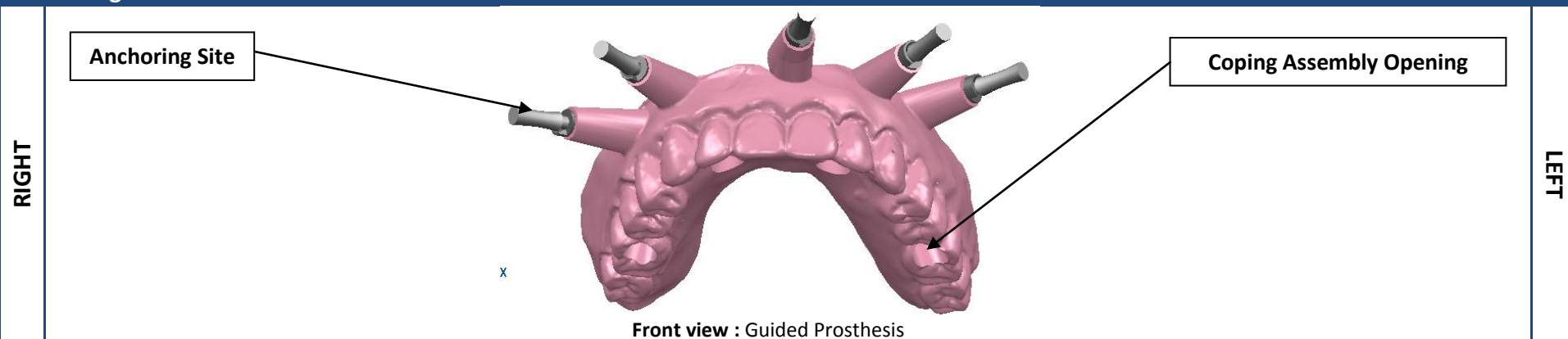


Step 3 – Surgery - Implant placement  
V2R® Surgical Guide SG-G Lot # 0014A3



## Step 4 – Prosthetics - Abutment & provisional prosthesis installation

V2R® Surgical Guide SG-C Lot # 0014A4



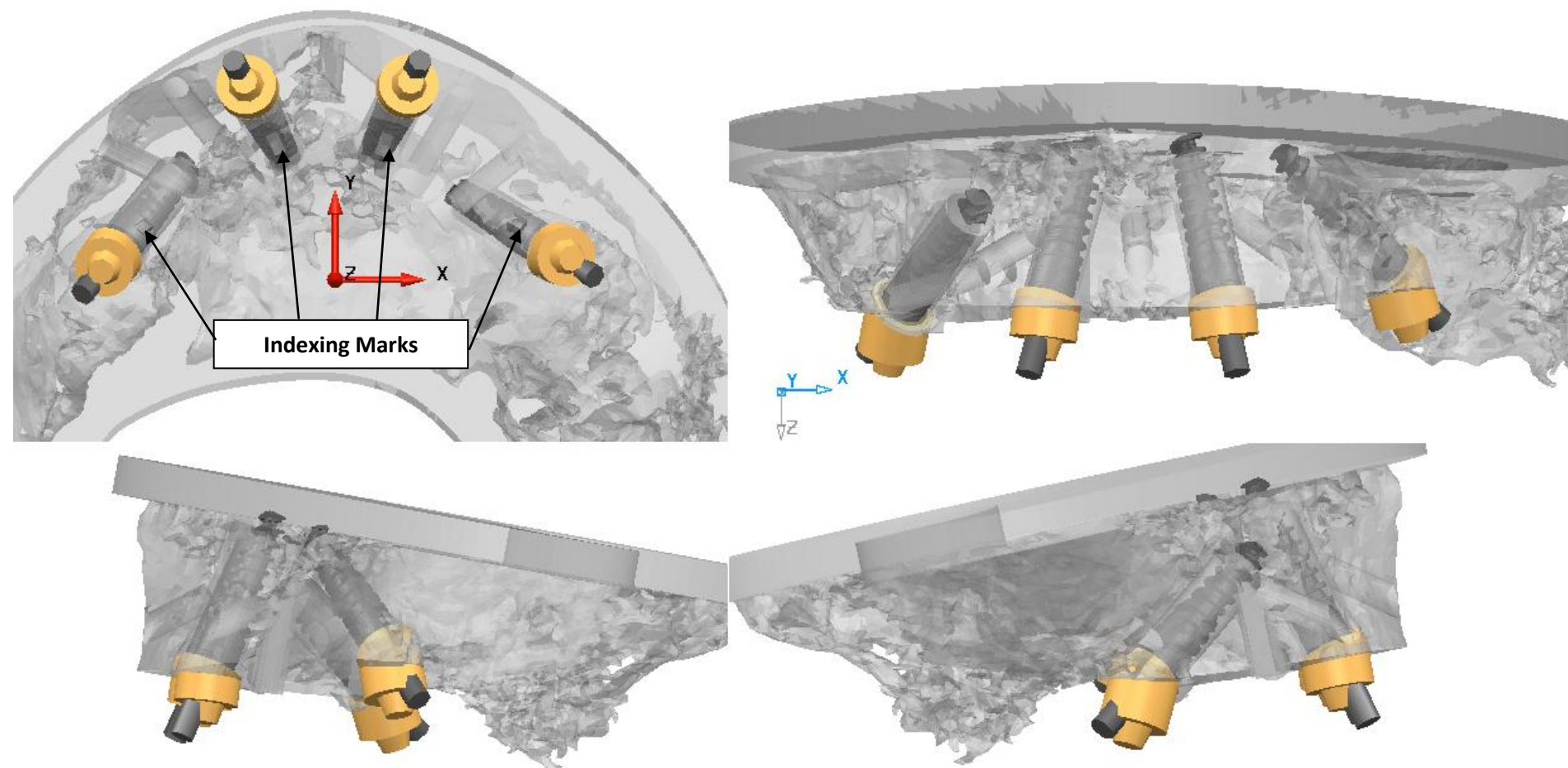
Front view : Guided Prosthesis

Material	<ul style="list-style-type: none"> <li>V2R® Surgical Guide SG-C Lot # 0014A4 – Guided Prosthesis</li> <li>Main prosthetic technique used: Nobel Biocare All-on-4</li> <li>(5x) BioHorizons Fixation Pin - 2.0mm D x 24mm L (ID# CGS-FP);</li> <li>Implant manufacturer recommended components;</li> <li>All parts listed in the chart below.</li> </ul>	Documents	<ul style="list-style-type: none"> <li>Main prosthetic technique manual: <i>Download the documentation from the manufacturer's website:</i> <a href="#">NobelBiocare All-on-4 Treatment Concept - Procedures Manual</a> (LINK)</li> <li><i>It is the clinician's sole responsibility to verify the treatment plan's compliance with the technical and clinical requirements of the chosen immediate loading technique.</i></li> </ul>
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Procedure	<ul style="list-style-type: none"> <li><b>MUA Installation</b> - Install the Multi-Unit Abutments (MUAs) onto the implants (additional views are provided below);</li> <li><b>Occlusion</b> - Align the guided prosthesis with the patient's ridge and establish the occlusion by inserting at least one pin into the guide and at full depth into its respective anchoring site, prepared at step 1. Verify the occlusion and stability while inserting the additional pins;</li> <li><b>Coping Installation</b> - Install the titanium copings through the assembly openings and onto the MUAs. Slight adjustments to the openings may be required;</li> <li><b>Conversion and loading</b> - Proceed to luting the copings to the guide and to its conversion into the provisional prosthesis, according to the prosthetics technique manual.</li> </ul>
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Sites (US/FDI/Alpha)	3/16/A	7/12/B	10/22/C	14/26/D						
Manufacturer	NobelBiocare	NobelBiocare	NobelBiocare	NobelBiocare						
Platform	NP	NP	NP	NP						
Line	MUA	MUA	MUA	MUA						
Angle (°)	30	17	17	30						
Cuff Height (mm)	3.5	2.5	2.5	3.5						
Part ID	36620	36614	36614	36620						

**Step 4 – Prosthetics - Abutment & provisional prosthesis installation**  
**V2R® Surgical Guide SG-C Lot # 0014A4**



**Occlusal, Front, Left & Right Views – Post reduction model, implants, abutments and abutment screws**





### General Notes

- *This document should be used and interpreted in combination to the V2R® Instructions for Use, the most recent case-specific V2R® Treatment Plan Report and any document referred to herein.*
- *All V2R® products should only be used with the appropriate specified equipment and referred documents.*
- *The clinician's judgment shall always supersede all general and/or case-specific instructions and recommendations made in any V2R Biomedical documentation.*



### Manufacturer:

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For additional information on V2R® Guided Surgery Solutions, please consult V2R's website at [www.v2rbiomedical.com](http://www.v2rbiomedical.com) or contact a V2R representative.