

# OverdenSURE®

Attachment System

Technique Manual



Good just got BETTER.

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# Introduction

Good just got BETTER with Zimmer Biomet's new removable attachment system, OverdenSURE!

Our OverdenSURE product line features a Zirconium Nitride abutment coating for excellent aesthetics and function, and a wider range of abutment sizes for increased restorative flexibility, all wrapped in a classic system design that is intuitive to the user.

Zirconium Nitride is a fully bio-compatible material that exhibits increased hardness and wear resistance<sup>1,2</sup>, reduced bacterial adhesion<sup>3,4,5,6,7</sup>, and enhanced lubricity compared to the traditionally used Titanium Nitride<sup>1</sup>.

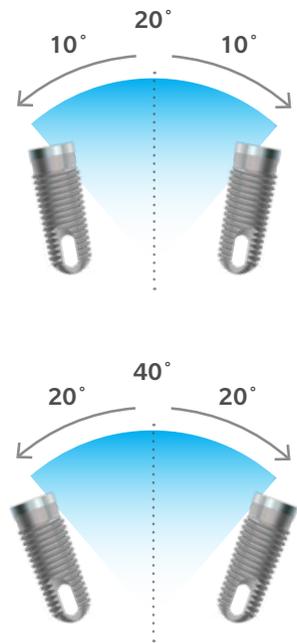


# OverdenSURE System Overview

## OverdenSURE Abutments

### Considerations

- Tissue-supported removable overdentures on 2 or more implants.
- Partially edentulous overdentures with 1 or more implants.
- Limited interarch distance.
- Angle correction with up to 20° between divergent implants when using the standard retention inserts (blue, pink and clear) or the standard retention insert kits.
- Angle correction with up to 40° between divergent implants when using the extended retention inserts (red, yellow and green) or the extended retention insert kits.



### Selecting the OverdenSURE Abutments

- Choose a cuff length based on the tissue depth.
- Determine the tissue depth by measuring from the coronal rim of the implant body to the crest of the soft-tissue in three or four areas.
- Choose the corresponding abutment cuff height that equals the tissue measurement or is the next closest higher size.



### Selecting the OverdenSURE Retention Inserts

The OverdenSURE Retention Inserts have been designed to provide the correct amount of strength for each level of retention while maintaining a color coding system that is intuitive to the clinician.

### Specifications

- Abutment: Titanium alloy with light-gold Zirconium Nitride coating.
- Housing: Titanium Alloy
- Retention Inserts: Nylon

Retention Inserts	
Up to 20° Angle Correction	Up to 40° Angle Correction
 1.5lbs / 680g	 1.0lbs / 450g
 3.0lbs / 1360g	 2.0lbs / 910g
 5.0lbs / 2270g	 4.0lbs / 1810g

### Instrumentation and Components Needed

- OverdenSURE Abutment Insertion and Removal Tool [\[ODS-IRTOOL\]](#)



- OverdenSURE Abutment Analogs [\[ODS-AAOX\]](#)



- Zimmer Biomet Restorative Torque Wrench [\[TWR\]](#)



- OverdenSURE Abutment Driver [\[ODS-DRVR\]](#)



- OverdenSURE Impression Copings [\[ODS-ICOX\]](#)



### Seating the OverdenSURE Abutments

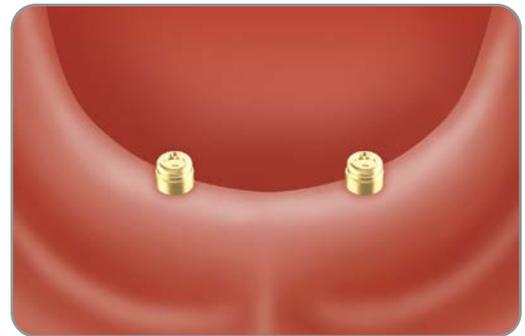
- Seat the abutment into the implant and thread it until finger-tight using the transporter included with each abutment.

### Tightening the OverdenSURE Abutments

- Manually engage the OverdenSURE driver [ODS-DRVR] with the abutment, aligning the axis of the driver with the axis of the abutment and fitting the fingers of the driver over the abutment's circumference.

*Tip: For easier driver-to-abutment engagement, slightly rotate the driver over the abutment until you feel the internal tri-lobe engage first, then apply normal pressure downward to ensure the driver's outer fingers have also engaged the abutment's circumference is included*

- Insert the Torque Ratchet Wrench [TWR] onto the driver and torque the abutments to the indicated force:
- Certain<sup>®</sup> and ExHex OverdenSURE Abutments: 20Ncm
- Tapered Screw-Vent<sup>®</sup> OverdenSURE Abutments: 30Ncm.

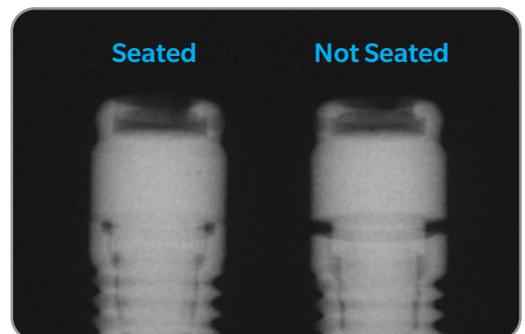


### CAUTION:

To remove the driver from the abutment, jiggle the driver slightly from side to side in order to disengage the driver from the abutment first. Taking care that the wrench is properly engaged with the driver, then remove the wrench [TWR] and driver [ODS-DRVR] from the mouth.

### Confirm the OverdenSURE Abutments are Seated

- Radiograph the interfaces to verify complete seating of the abutments on all of the implants.
- Place the film perpendicular to the interface of the abutment on the implant.

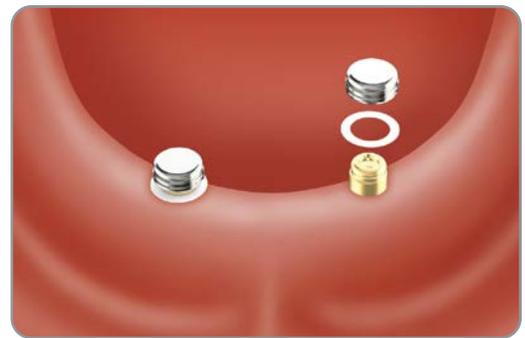


# Direct Restorative Technique

## Prepare the Denture for Processing

- Place the OverdenSURE Housing Caps [\[ODS-RH0X\]](#) with the pre-loaded Black Inserts on the abutments and press down firmly to make sure they are fully seated.
- Place a Block-out Spacer [\[ODS-BS0XX\]](#) at the base of the abutments to prevent acrylic resin from flowing into undercuts of the Housing Caps.

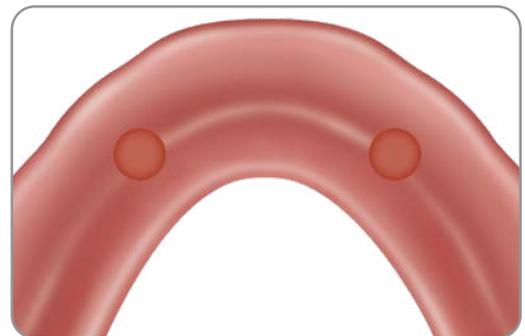
**NOTE:** 1 OverdenSURE Standard Abutment Retention Kit [\[ODS-RIKIT2001\]](#) is included with every abutment. 1 Housing Cap [\[ODS-RH0X\]](#) pre-loaded with a Black Insert and 1 Block-out Spacer are included within this kit and packaged with every abutment.



- Apply contact-detecting material to the intaglio surface of the denture. Seat the denture over the Housing Caps [\[ODS-RH0X\]](#) and verify that it is completely seated on the ridge.

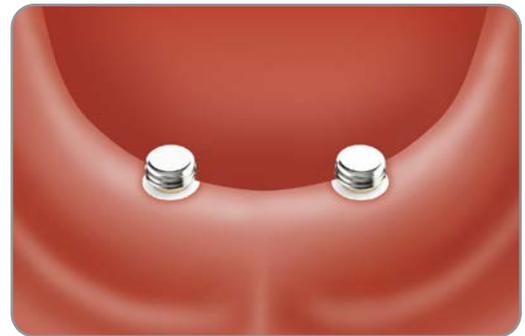


- With a recess bur create the relief pockets where the Housing Caps will fit in order to be processed into the denture.
- Create undercuts around the relieved pockets to increase mechanical retention and open lingual/palatal vents to allow excess material to flow out of the denture.



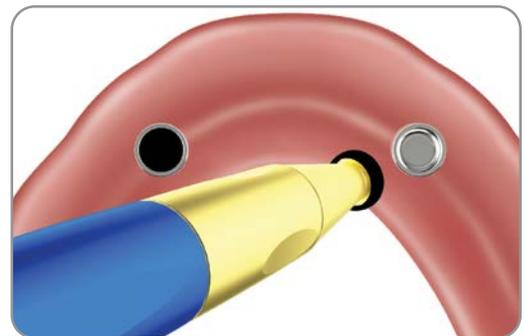
### Pick-Up OverdenSURE Housing Caps

- Place autopolymerizing acrylic resin or light cure composite resin over the OverdenSURE Housing Caps [\[ODS-RH0X\]](#) and into the relieved pockets in the denture.
- Place and position the denture in the mouth and have the patient close lightly into centric occlusion. Allow the acrylic resin to set per the manufacturer's instructions.
- Detach the denture from the abutments and verify that the Housing Caps have been successfully processed into the denture.
- Fill any voids with autopolymerizing acrylic resin or light cure composite resin. Once cured, remove any excess material with a grind bur.



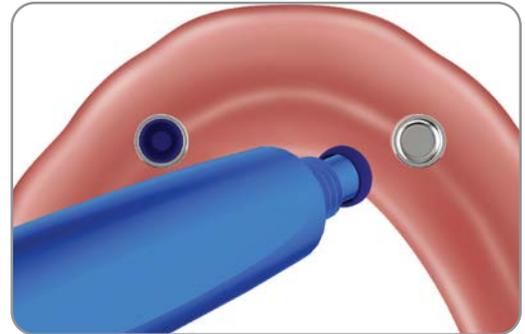
### Remove OverdenSURE Black Inserts

- Using the OverdenSURE Removal and Insertion Tool [\[ODS-IRTOOL\]](#), remove the Black Inserts from each Housing Cap.
- To do so, make sure the Removal and Insertion Tool is set to "removal mode".
- This is achieved by turning the golden head of the tool two full rotations counter-clockwise. You will notice the blue tip recess into the tool.
- Insert the tool into the Black Insert and tilt it so the edge of the tip engages the inner lip of the insert.
- Once the tool has full engagement, pull it out.
- To remove the Black Insert from the tool, turn the golden head of the tool two full rotations clockwise. The blue tip will emerge and push off the Black Insert.



### Place Final OverdenSURE Retention Inserts

- Ensure the Removal and Insertion Tool [ODS-IRTOOL] is set to "insertion mode." To do so, completely unscrew the golden head from the blue portion of the tool.
- Select the appropriate Retention Insert and place it on the insertion tip of the tool. Firmly insert each final Retention Insert into the empty Housing Caps and verify they sit flush with the rim of the Housing Caps.



**NOTE:** 1 OverdenSURE Standard Abutment Retention Kit [ODS-RIKIT2001] is included with every abutment. 1 Blue Retention Insert (Extra Light), 1 Pink Retention Insert (Light), 1 Clear Retention Insert (Medium), and 1 Red Retention Insert (Extra Light; Extended Range) are included within this kit and packaged with every abutment.

### Deliver the Removable Prosthesis

- Seat the prosthesis on the OverdenSURE Abutments and press down so that the Retention Inserts snap onto the abutments.
- Verify the occlusion.
- Have the patient remove and insert the prosthesis to ensure the retention is adequate. If the retention level needs to be adjusted, select the appropriate Retention Insert and repeat the necessary steps.



# Indirect Restorative Technique

## Clinician – Take Impressions of the OverdenSURE Abutments

- A custom or stock closed impression tray may be used for this. Provide relief for the height of the OverdenSURE Abutments and Impression Copings [\[ODS-IC0X\]](#) plus 2 mm. The Impression Copings are 4.5 mm in height.
- Place the OverdenSURE Impression Copings onto the abutments. Inject light-body impression material around the copings and record a full-arch impression with medium-body material. Allow the material to set per the manufacturer's instructions.
- Sometimes it is helpful to place impression adhesive on the impression copings to ensure their removal in the impression.

*NOTE: OverdenSURE Impression Copings [\[ODS-IC0X\]](#) are sold separately.*

- Remove the impression from the mouth and verify that the impression material completely adapted around each OverdenSURE Impression Copping. The impression copings should remain inside the impression.
- An optional technique is to use the patient's existing denture in combination with the OverdenSURE Housing Caps [\[ODS-RH0X\]](#) with a pre-loaded Black Insert for a reline impression.

## Transfer Technique

- Insert the OverdenSURE Abutment Analogs [\[ODS-AA0XX\]](#) into the Impression Copings located within the impression material and send the impression to the laboratory.



### Laboratory – Fabricate the Working Cast

- Verify that the OverdenSURE Abutment Analogs [ODS-AA0XX] are secure in the Impression Copings and pour the model.



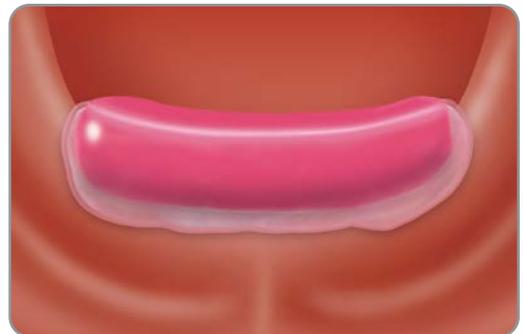
### Laboratory – Record Base and Occlusion Rim

- Fabricate a record base and wax occlusion rim and send to the clinician.



### Clinician – Occlusion Record

- Place the occlusion rim in the mouth and take the interocclusal records.



### Laboratory – Articulate

- Articulate casts using the interocclusal record.
- Set the denture teeth on the record base for the wax try-in.



### Clinician – Denture Try-In

- Place the wax denture in the mouth. Verify occlusion, aesthetics and phonetics. Make any adjustments necessary.
- If major adjustments are necessary, make a new interocclusal record and return it to the laboratory for a new articulator mounting, wax denture set-up and try in.



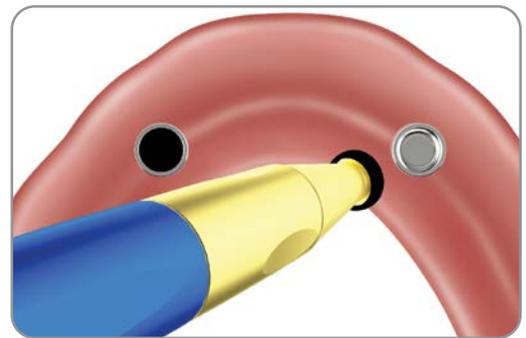
### Laboratory – Process the Removable Prosthesis

- After the wax try-in is verified, flask the denture on the cast.
- Boil out the wax and separate the flask.
- Place the OverdenSURE White Spacers over Abutment Analogs to prevent acrylic resin from flowing under the Housing Caps.
- Place the OverdenSURE Housing Caps [ODS-RH0X] with the pre-loaded Black Inserts on the Abutment Analogs and press down firmly to make sure they are fully seated.
- Process the denture following standard procedures.



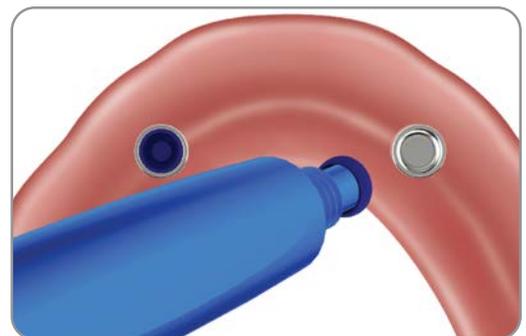
### Clinician – Remove OverdenSURE Black Inserts

- Using the OverdenSURE Removal and Insertion Tool [ODS-IRTOOL], remove the Black Inserts from each Housing Cap.
- To do so, make sure the Removal and Insertion Tool is set to "removal mode". This is achieved by turning the golden head of the tool two full rotations counter-clockwise. You will notice the blue tip recess into the tool.
- Insert the tool into the Black Insert and tilt it so the edge of the tip engages the inner lip of the insert.
- Once the tool has full engagement pull it out.
- To remove the Black Insert from the tool, turn the golden head of the tool two full rotations clockwise. The blue tip will emerge and push off the Black Insert.



### Clinician – Place Final OverdenSURE Retention Inserts

- Ensure the Removal and Insertion Tool [ODS-IRTOOL] is set to "insertion mode". To do so, completely unscrew the golden head from the blue portion of the tool.
- Select the appropriate Retention Insert and place it on the insertion tip of the tool.
- Firmly insert each final Retention Insert into the empty Housing Caps, and verify they sit flush with the rim of the Housing Caps.



**NOTE:** 1 OverdenSURE Standard Abutment Retention Kit [ODS-RIKIT2001] is included with every abutment. 1 Blue Retention Insert (Extra Light), 1 Pink Retention Insert (Light), 1 Clear Retention Insert (Medium), and 1 Red Retention Insert (Extra Light; Extended Range) are included within this kit and packaged with every abutment.

### Deliver the Removable Prosthesis

- Seat the prosthesis on the OverdenSURE Abutments and press down so that the Retention Inserts snap onto the abutments.
- Verify the occlusion.
- Have the patient remove and insert the prosthesis to ensure the retention is adequate. If the retention level needs to be adjusted, select the appropriate Retention Insert and repeat the "Selecting the OverdenSURE Retention Inserts" steps.
- Instruct the patient on proper hygiene care and required maintenance visits.



# Ordering Info



Certain® Implant System			
Collar Height	Seating Surface		
	3.4 mm	4.1 mm	5.0 mm
1.0 mm	ODS-CERT301	ODS-CERT401	ODS-CERT501
2.0 mm	ODS-CERT302	ODS-CERT402	ODS-CERT502
3.0 mm	ODS-CERT303	ODS-CERT403	ODS-CERT503
4.0 mm	ODS-CERT304	ODS-CERT404	ODS-CERT504
5.0 mm	ODS-CERT305	ODS-CERT405	ODS-CERT505
6.0 mm	ODS-CERT306	ODS-CERT406	ODS-CERT506



Tapered Screw-Vent® Implant System			
Collar Height	Seating Surface		
	3.5 mm	4.5 mm	5.7 mm
1.0 mm	ODS-TSV301	ODS-TSV401	ODS-TSV501
2.0 mm	ODS-TSV302	ODS-TSV402	ODS-TSV502
3.0 mm	ODS-TSV303	ODS-TSV403	ODS-TSV503
4.0 mm	ODS-TSV304	ODS-TSV404	ODS-TSV504
5.0 mm	ODS-TSV305	ODS-TSV405	ODS-TSV505
6.0 mm	ODS-TSV306	ODS-TSV406	ODS-TSV506



External Hex Implant System			
Collar Height	Seating Surface		
	3.4 mm	4.1 mm	5.0 mm
1.0 mm	ODS-EXHEX301	ODS-EXHEX401	ODS-EXHEX501
2.0 mm	ODS-EXHEX302	ODS-EXHEX402	ODS-EXHEX502
3.0 mm	ODS-EXHEX303	ODS-EXHEX403	ODS-EXHEX503
4.0 mm	ODS-EXHEX304	ODS-EXHEX404	ODS-EXHEX504
5.0 mm	ODS-EXHEX305	ODS-EXHEX405	ODS-EXHEX505
6.0 mm	ODS-EXHEX306	ODS-EXHEX406	ODS-EXHEX506

	Impression Coping Qty 1	ODS-IC01
	Impression Coping Qty 4	ODS-IC04
	Impression Coping Qty 10	ODS-IC010
	Analog Qty 1	ODS-AA01
	Analog Qty 4	ODS-AA04
	Analog Qty 10	ODS-AA010
	Retention Kit 20° Qty 1 Set	ODS-RIKIT2001
	Retention Kit 20° Qty 2 Sets	ODS-RIKIT2002
	Retention Kit 40° Qty 1 Set	ODS-RIKIT4001
	Retention Kit 40° Qty 2 Sets	ODS-RIKIT4002
	Blue Retention Insert 20° Qty 4	ODS-RIB2004
	Pink Retention Insert 20° Qty 4	ODS-RIP2004
	Clear Retention Insert 20° Qty 4	ODS-RIC2004
	Red Retention Insert 40° Qty 4	ODS-RIR4004
	Yellow Retention Insert 40° Qty 4	ODS-RIY4004
	Green Retention Insert 40° Qty 4	ODS-RIG4004
	Retention Housing Cap Qty 1	ODS-RH01
	Retention Housing Cap Qty 4	ODS-RH04
	Retention Housing Cap Qty 10	ODS-RH010
	Blockout Spacer Qty 20	ODS-BS020
	Abutment Driver	ODS-DRVR
	Removal and Insertion Tool	ODS-IRTOOL

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