



Screw Retained Restorations

Version 2



TRI®-Vent, TRI®-Narrow & TRI®-Octa



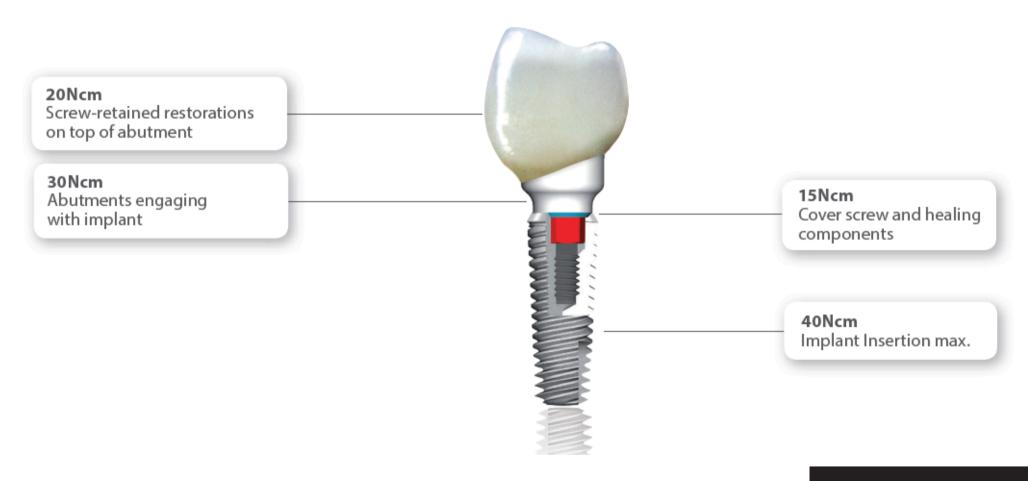






Torques

Torques to be used with the TRI® Dental Implant System





Universal Screw Retained Abutment – Straight TRI®-Vent, TRI®-Narrow & TRI®-Octa 30°angled TRI® -Vent

- Screw retained bridge
- Bar treatment









Universal Screw Retained Abutment – Straight TRI®-Vent, TRI®-Narrow & TRI®-Octa 30° angled TRI® -Vent

- Screw retained bridge
- Bar treatment



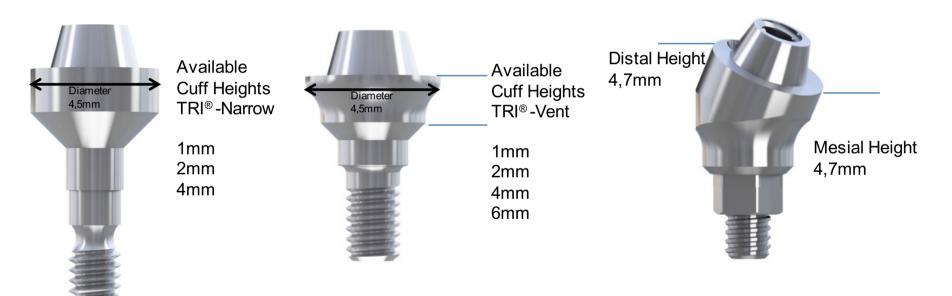






Universal Screw Retained Abutment – Straight TRI®-Vent, TRI®-Narrow & TRI®-Octa 30°angled TRI® -Vent

- Screw retained bridge
- Bar treatment





Universal Screw Retained Abutment – Straight TRI®-Vent, TRI®-Narrow & TRI®-Octa 30° angled TRI®-Vent

Axis

- The Universal Screw Retained Abutment is a one-piece component having a 4.5mmD platform with a raised central section having 15° tapered walls. It is the same platform for TRI®-Vent as well as for TRI®-Narrow.
- The 15° cone enables to splint implants which a passive path of insertion up to 30° out of parallelism.
- The Universal Screw Retained Abutment is also available as STLfile. Hereby CAD-CAM treatments on it are possible.

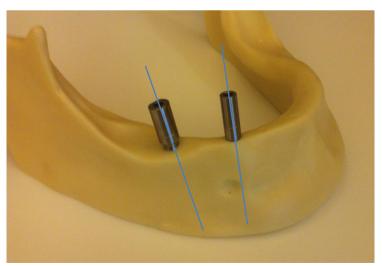




Universal Screw Retained Abutment – Straight

Abutments for screw-retained bridge or bar



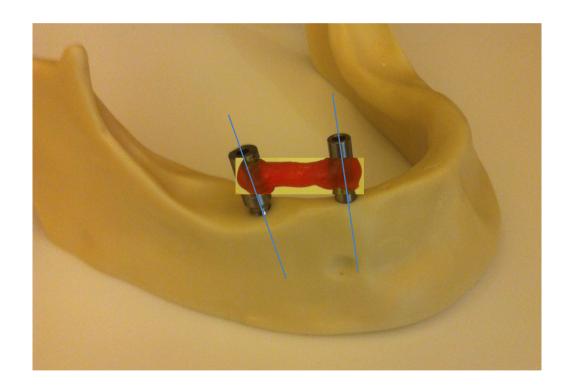


Non pralaell axis ?



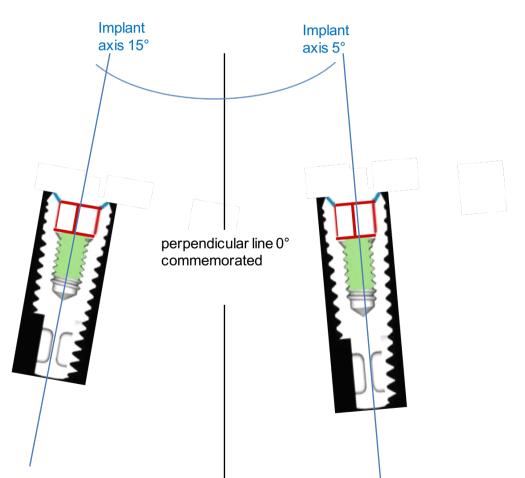
Universal Screw Retained Abutment – Straight

Abutments for screw-retained bridge or bar





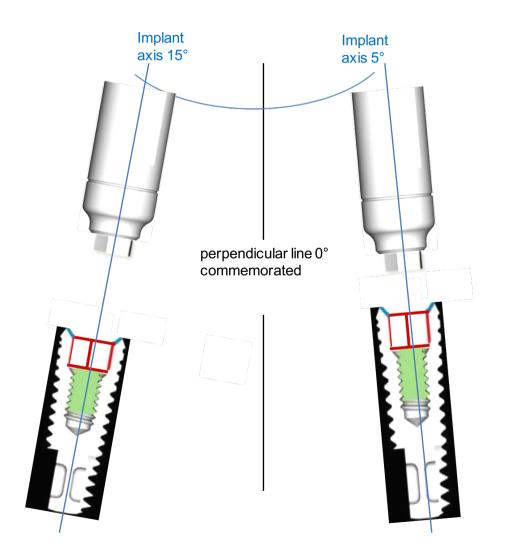
Universal Screw Retained Abutment – Straight TRI®-Vent, TRI®-Narrow & TRI®-Octa



Two adjacent implants have always two different axis! (Example: 15° and 5°)



Universal Screw Retained Abutment – Straight TRI®-Vent, TRI®-Narrow & TRI®-Octa



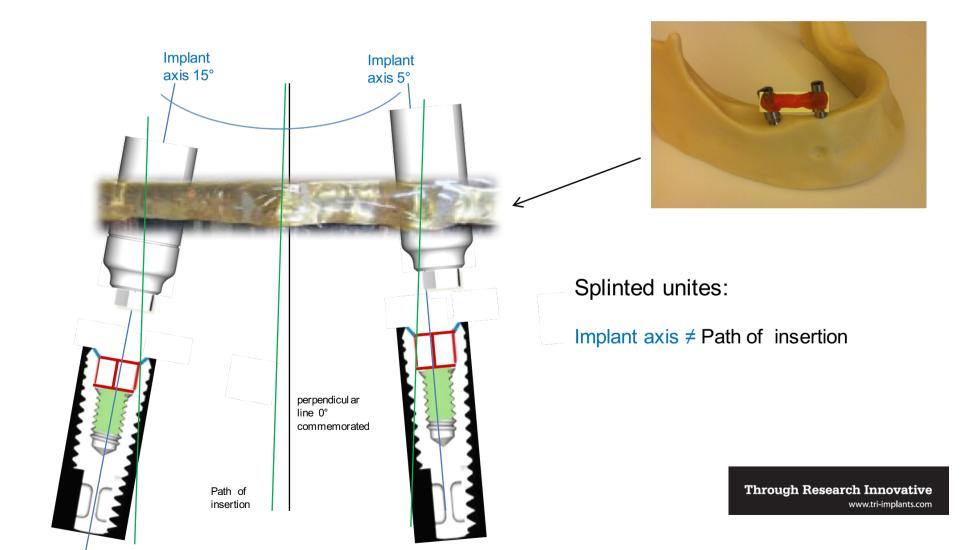
Single unites:

Implant axis = Path of insertion





Universal Screw Retained Abutment – Straight TRI®-Vent, TRI®-Narrow & TRI®-Octa





Universal Screw Retained Abutment – Straight TRI®-Vent, TRI®-Narrow & TRI®-Octa

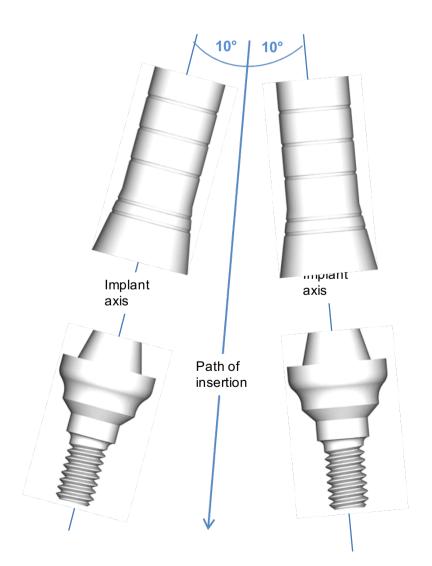


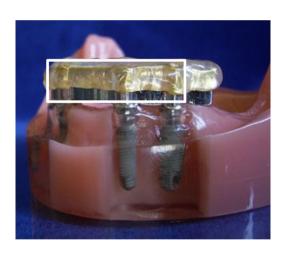


TRI® -Narrow



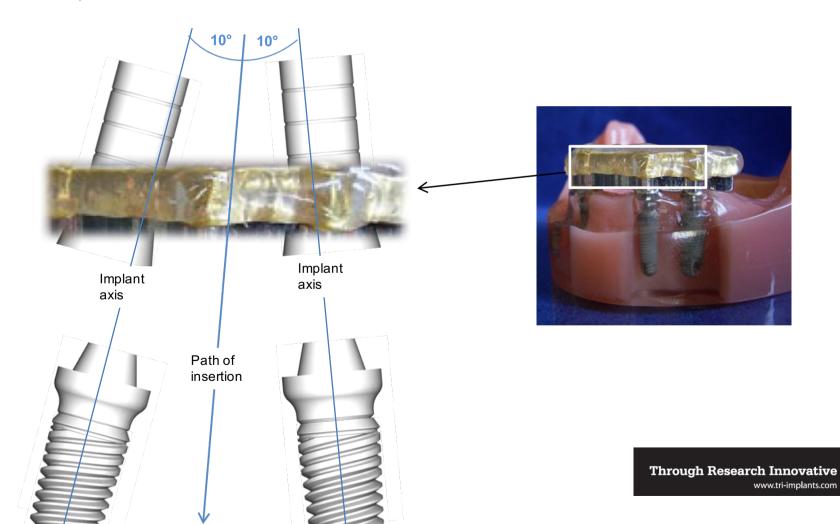
Universal Screw Retained Abutment – Straight TRI®-Vent, TRI®-Narrow & TRI®-Octa







Universal Screw Retained Abutment – Straight TRI®-Vent, TRI®-Narrow & TRI®-Octa





Screw Retained Abutment – Angled 30°, with TRI®-Friction TRI®-Vent

 The Screw Retained Angled Abutments are two-piece components having a 4.5mmD

 30° angled platform with a raised central section having 15° tapered walls.

Available Cuff Height 2,5mm

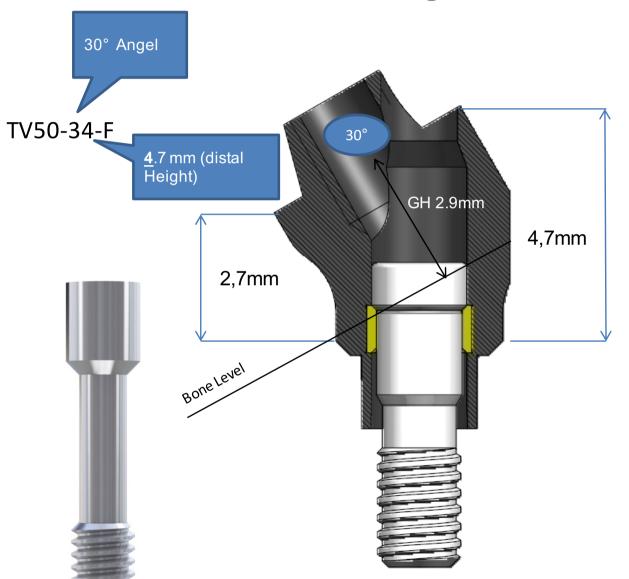








Screw Retained Abutment – Angled 30°, with TRI®-Friction

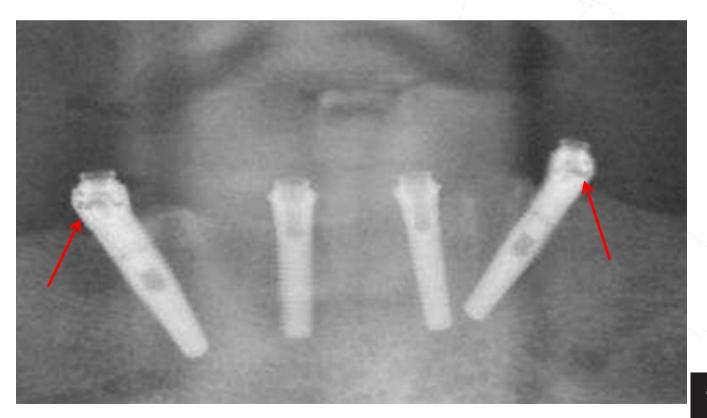






Screw Retained Abutment – Angled 18° & 30°, with TRI®-Friction TRI-Vent®

Example: All-On-Four technique with 2 screw retained abutments - angled





"All-on-TRI" Treatemt Protocol

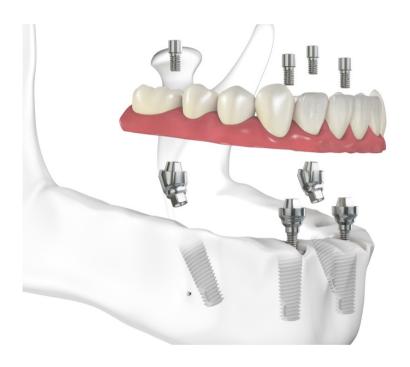


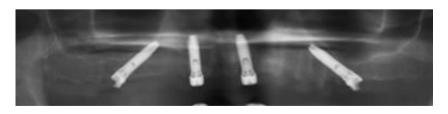
Background

- The "All-on-TRI" treatment protocol has been developed based on the "All-on-four" treatment concept by Nobel Biocare.
- The "All-on-four" treatment protocol was developed by Nobel Biocare in collaboration with Dr. Paulo Malo.
- The "All-on-four" (in our words "All-on-TRI") treatment concept is today widely used and accepted. Many implant manufactures offer suitable components.

About the treatment protocol

- The restoration in the edentulous jaw is supported by four implants.
- The two molar implants are placed with a 30 degree angulation. This offers the advantage to use a longer implant without complex bone grafting procedures also with limited bone. This results in an immediate and stable support of the prosthetic restoration.
- Angulated implant positioning requires and experienced implantologists. A guided surgery template is often used in combination with this treatment protocol.





TRI dental implants

TV50-30 and TV50-17 for "All-on-TRI" Solution



+ 'All-on-TRI' treatment protocol

Immediate stability with a proven protocol in minimum bone volume.

+ One size fits all

All existing impression posts, temporary and final components t!

+ Superior Design Features

Including the proven TRI® Friction and TRI® Soft Tissue Concept.

+ Supported by TRI+

Plan, place and restore your "Allon-TRI" case via the TRI+ interface with your preferred digital technology.



Full compatibility with TV40 components.

30 degree angulation.

TV50-30



Screw Retained Prosthetics

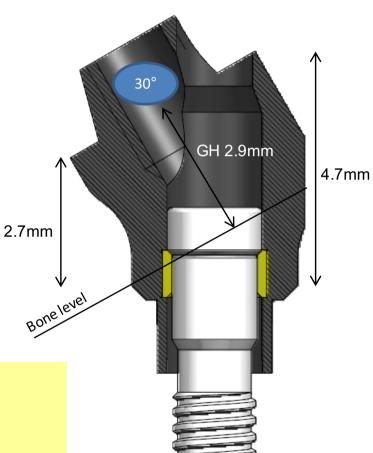
Dimensions of the TV50-30

• The dimensions of the abutment are optimized in a way that it fits for anatomical conditions of all patients.

 This offers MAXIMUM SIMPLICITY by adding only one single component to the portfolio and therefore making the life of the practitioner easier.

 Compared to the straight screw-retained abutments, the height of the TV50-34-F corresponds to a gingiva height (GH) of 2.9 mm.

1	SCREW-RET	AINED, MULTI UNIT ABUTMENT, STRAIGHT					
	Catalog Numb	er	Ø	Cuff Height	Material	Qty	Sterile
	TV40-01	Screw-Retained Abutment, Straight	4.5 mm	1 mm	Ti-6Al-4V	1	R
	TV40-02	Screw-Retained Abutment, Straight	4.5 mm	2 mm	Ti-6Al-4V	1	R
	TV40-04	Screw-Retained Abutment, Straight	4.5 mm	4 mm	Ti-6Al-4V	1	R
	TV40-06	Screw-Retained Abutment, Straight	4.5 mm	6 mm	Ti-6Al-4V	1	\mathbf{R}



FAQ

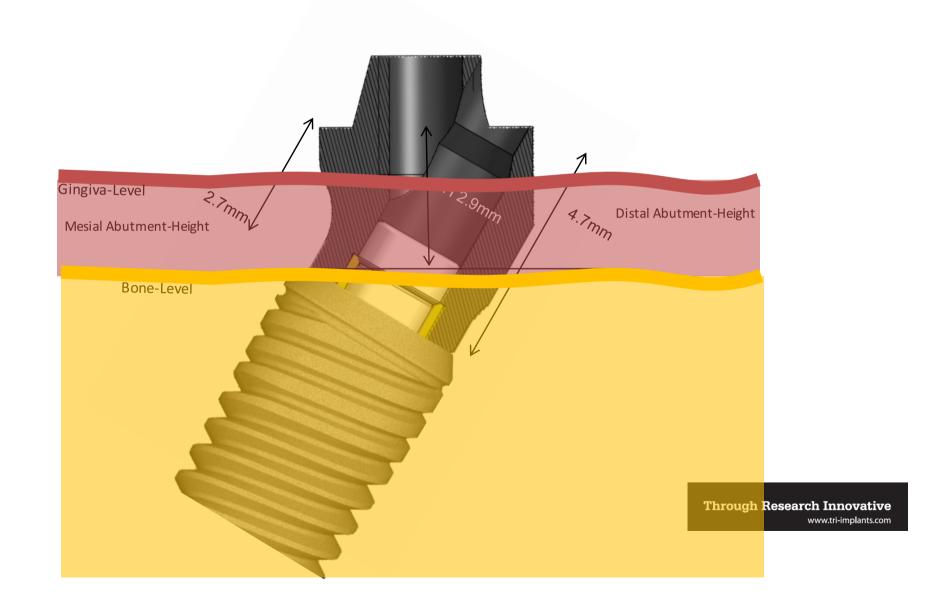
Doctor: Many companies have different heights of the 30 degrees angulated abutments. Why is one dimension sufficient with the TRI solution?

TRI: The 30 degrees angulated abutments are place only in the molar region. Therefore, there are only limited aesthetic requirements. Therefore, very low heights are not required. If the gingiva is very thick (this is unlikely with fully edentulous patients), the height can be extended with the bar or bridge. We have chosen the height at the lower end compared to competitive products. This brings more flexibility. For the straight screw-retained abutments there are higher aesthetic requirements. Therefore, TRI offers four different heights.



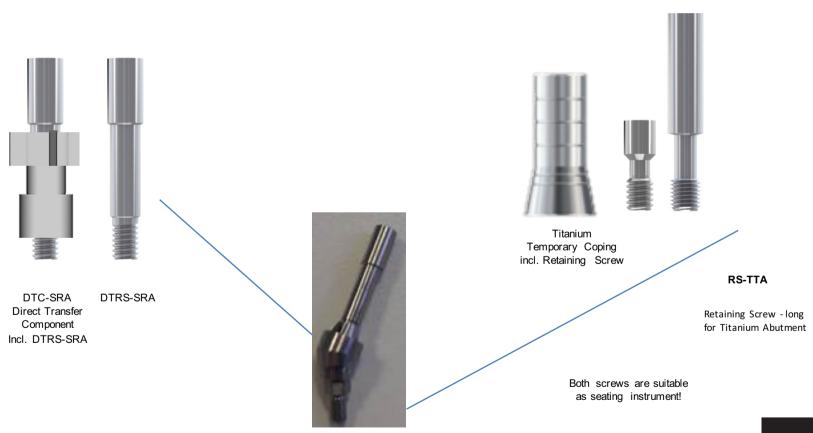
TRI dental implants

Dimensions of the TV50-30



TRI dental implants

Helpful Insertion Part TV50-30 & TV50-17



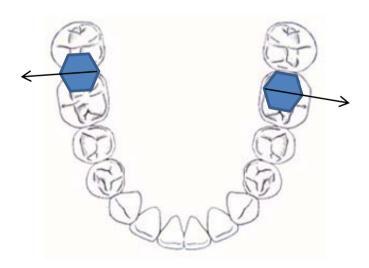


Important Instructons for use - TV50-30

Orientation of the hexagon



- The internal hexagon of the TRI Vent implant has to be oriented with the flat towards distal (not towards bucal like other angulated abutments).
- This is contrary compared to normal angulated abutments as the abutment angulation for "All-on-TRI" restorations is inclined towards mesial, while normal angulated abutments are inclined towards lingual.







Screw Retained Abutments – Temporary Treatment -

Option with the patients existing prosthesis









Screw Retained Abutments – Temporary Treatment - Option with the patients existing prosthesis



Immediate loding a prosthesis with TTA together with the long retaining screw RS-TTAL.



Universal Screw Retained Abutment – Impression

TRI®-Vent, TRI®-Narrow & TRI®-Octa

Impression post for open tray fits on the platform of the straight conical universal abutments.



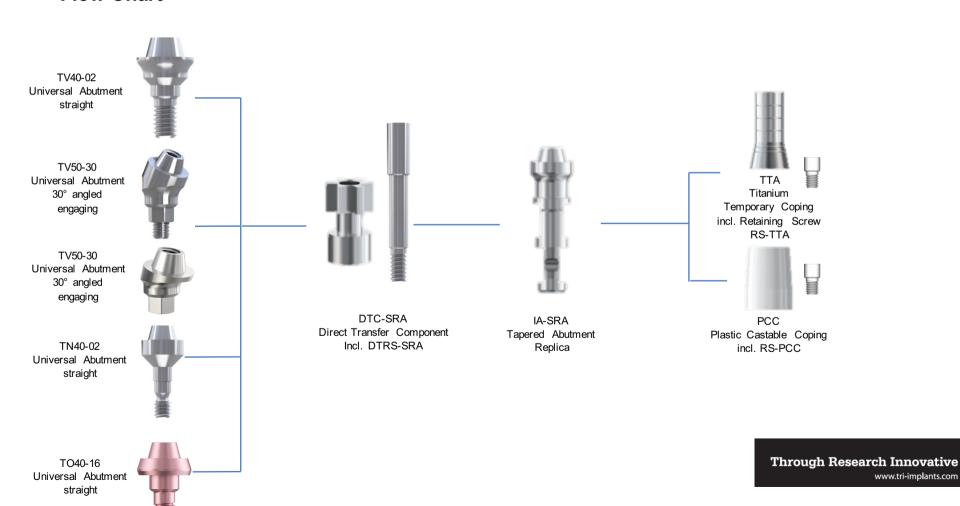
www.tri-implants.com

Components for Screw Retained Universal - Abutments

TRI®-Vent, TRI®-Narrow & TRI®-Octa **Straight:**

Angled: TRI®-Vent

Flow Chart





Universal Screw Retained Abutment – Straight Product Catalogue TRI®-Vent, TRI®-Narrow & TRI®-Octa

Components for Screw-Retained Restorations

Catalog Numb	er	Ø	CH	Material	Qty	Sterile		
TV40-01	Screw-Retained Abutment, Straight	4,5 mm	1,0 mm	Ti-6Al-4V	1	\mathbf{R}		
TV40-02	Screw-Retained Abutment, Straight	4,5 mm	2,0 mm	Ti-6Al-4V	1	\mathbf{R}	- Oh	16
TV40-04	Screw-Retained Abutment, Straight	4,5 mm	4,0 mm	Ti-6Al-4V	1	R	A	17
TV40-06	Screw-Retained Abutment, Straight	4,5 mm	6,0 mm	Ti-6Al-4V	1	R		
TV50-34-F	Screw-Retained Abutment, 30° with TRI*-Friction	4,5 mm	3,0 mm	Ti-6Al-4V	1	R	TV40-02	TV50-34-F
HG-SRAS	Healing Cap for Screw-Retained Abutment, Straight			Ti-6Al-4V	1	R		
Catalog Numb	er	ø	CH	Material	Qty	Sterile	- 4	
TN40-02	Screw-Retained Abutment, Straight	4,5 mm	2,0 mm	Ti-6Al-4V	1	R	4	7
TN40-04	Screw-Retained Abutment, Straight	4,5 mm	40 mm	Ti-6Al-4V	1	R		ij.
HC-SRAS	Healing Cap for Screw-Retained Abutment			Ti-6Al-4V	1	12	TN	#0-02
Catalog Numb	AINED, MULTI UNIT ABUTMENT, STRAIGHT	Ø	GH	Material	Qty	Sterile		
TO40-16	Screw-Retained Abutment Straight	4.5 mm	1.6 mm	Ti-6Al-4V	1	R	443	
TO40-16	Screw-Retained Abutment, Straight	4,5 mm	1,6 mm		1	R	4	- (
TO40-16 TO40-30	Screw-Retained Abutment, Straight Screw-Retained Abutment, Straight Healing Cap for Screw-Retained Abutment, Straight	4,5 mm 4,5 mm	1,6 mm 3,0 mm	Ti-6Al-4V Ti-6Al-4V	1	R	T040-16	T040-30
TO40-16 TO40-30 HGSRAS	Screw-Retained Abutment, Straight		<u> </u>	Ti-6Al-4V		R	T040-16	T040-30
TO40-16 TO40-30 HGSRAS	Screw-Retained Abutment, Straight Healing Cap for Screw-Retained Abutment, Straight		<u> </u>	Ti-6AF4V Ti-6AF4V	1	R	TD40-16	T040-30
TO40-16 TO40-30 HGSRAS TTA	Screw-Retained Abutment, Straight Healing Cap for Screw-Retained Abutment, Straight Titanium Temporary Abutment incl. screw RS-TTA		<u> </u>	Ti-6Al-4V Ti-6Al-4V	1	R	T040-16	T040-30
	Screw-Retained Abutment, Straight Healing Cap for Screw-Retained Abutment, Straight Titanium Temporary Abutment incl. screw RS-TTA Replacement Retaining Screw for TTA	4,5 mm	<u> </u>	Ti-6Al-4V Ti-6Al-4V Ti-6Al-4V Ti-6Al-4V	1 1	R	T040-16	T040-30
TO40-16 TO40-30 HGSRAS TTA RS-TTA RS-TTAL DTG-SRA	Screw-Retained Abutment, Straight Healing Cap for Screw-Retained Abutment, Straight Titanium Temporary Abutment incl. screw RS-TTA Replacement Retaining Screw for TTA Replacement Retaining Screw Long for TTA	4,5 mm	<u> </u>	Ti-6Al-4V Ti-6Al-4V Ti-6Al-4V Ti-6Al-4V	1 1 1	R		
TO40-16 TO40-30 HGSRAS TTA RS-TTA RS-TTAL DTGSRA DTRS-SRA	Screw-Retained Abutment, Straight Healing Cap for Screw-Retained Abutment, Straight Titanium Temporary Abutment incl. screw RS-TTA Replacement Retaining Screw for TTA Replacement Retaining Screw Long for TTA Direct Trasfer Component for Screw-Retained Abutment in	4,5 mm	<u> </u>	Ti-6Al-4V Ti-6Al-4V Ti-6Al-4V Ti-6Al-4V Ti-6Al-4V	1 1 1 1	R		
TO40-16 TO40-30 HGSRAS TTA RS-TTA	Screw-Retained Abutment, Straight Healing Cap for Screw-Retained Abutment, Straight Titanium Temporary Abutment incl. screw RS-TTA Replacement Retaining Screw for TTA Replacement Retaining Screw Long for TTA Direct Transfer Component for Screw-Retained Abutment in Direct Transfer Retaining Screw	4,5 mm	<u> </u>	Ti-6Al-4V Ti-6Al-4V Ti-6Al-4V Ti-6Al-4V Ti-6Al-4V Ti-6Al-4V Ti-6Al-4V	1 1 1 1 1 1	R		
TO40-16 TO40-30 HGSRAS TTA RS-TTA RS-TTAL DTGSRA DTRS-SRA IA-SRA	Screw-Retained Abutment, Straight Healing Cap for Screw-Retained Abutment, Straight Titanium Temporary Abutment incl. screw RS-TTA Replacement Retaining Screw for TTA Replacement Retaining Screw Long for TTA Direct Transfer Component for Screw-Retained Abutment in Direct Transfer Retaining Screw Tapered Abutment Replica	4,5 mm	<u> </u>	Ti-6Al-4V Ti-6Al-4V Ti-6Al-4V Ti-6Al-4V Ti-6Al-4V Ti-6Al-4V Ti-6Al-4V	1 1 1 1 1 1 1	R		





TRI®-Vent & TRI®-Octa

Locator® Overdenture Attachment System

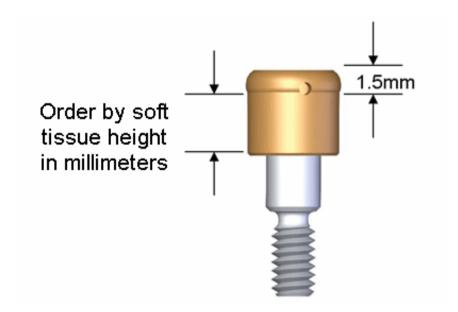






TRI®-Vent & TRI®-Octa

Locator® Overdenture Attachment System





TRI®-Vent & TRI®-Octa

Locator® Overdenture Attachment System

Why choose Locator Attachments?

- Low profile
- Durability
- •Easy for the patient to use
- Versatility









TRI®-Vent & TRI®-Octa

Locator® Overdenture Attachment System

Very Low Profile

- Total attachment height as low as
 2.5mm on internal connection implants
- 3.17mm height for external hex is pictured at right
- Great for cases with limited interocclusal space



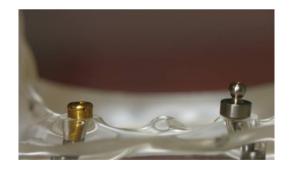


TRI®-Vent & TRI®-Octa

Locator® Overdenture Attachment System

Comparison with Ball Abutment









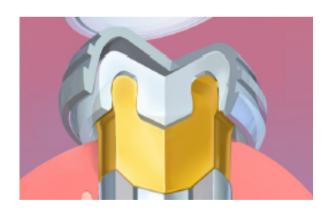


TRI®-Vent & TRI®-Octa

Locator® Overdenture Attachment System

Durability

- Attachment Durability means fewer recall visits for the patient
- Dual Retention means the cap retains on the inside and outside of the abutment for a strong, stable attachment
- Metal housing <u>pivots</u> over nylon male, reducing wear
- Proven to be long-lasting attachments¹





TRI®-Vent & TRI®-Octa

Locator® Overdenture Attachment System

Self-Aligning Male

- •Makes it **easy for patients** to position and correctly seat their denture.
- Unique design helps guide the housing with nylon liner into the abutment
- •Reduces wear of attachment components due to improper seating





TRI®-Vent & TRI®-Octa

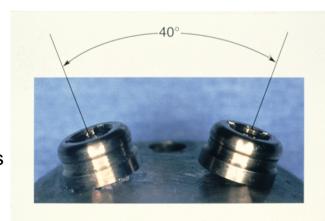
Locator® Overdenture Attachment System

Flexibility in Angles and Retention Straight males

- 3 levels of retention
 - 680g(blue)
 - 1360g(pink)
 - 2265(white)
- Angle correction up to 10 degrees per abutment

Angled males

- 2 levels of retention680g(red) and 1815g(green)
- Angulation correction up to 20 degrees on each abutment
- No need for angled abutment





TRI®-Vent & TRI®-Octa

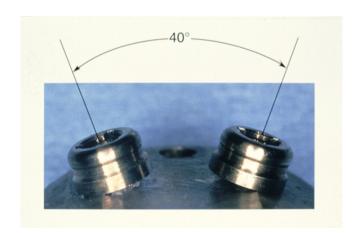
Locator® Overdenture Attachment System

Flexibility in Angles and Retention Straight males

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- No need for angled abutment





TRI®-Vent & TRI®-Octa

Locator® Overdenture Attachment System

Locator Core Tool

Versatile Locator Tool serves three functions:

- Seat the abutment
- Remove the nylon male
- Seat the nylon male



Locator abutments should be placed with 20-30 Ncm of torque.

- Two options for torque wrench
- Use Locator Torque Wrench Driver direct to abutment
- Use a 1.25mmD torque wrench Hex Driver in conjunction with the abutment seating tool



TRI®-Vent & TRI®-Octa

Locator® Overdenture Attachment System







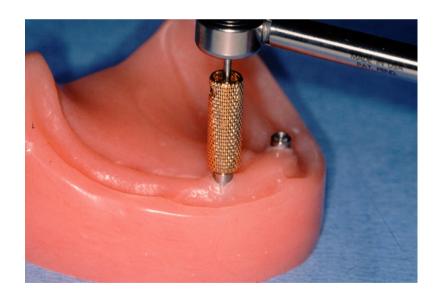
Insert tool

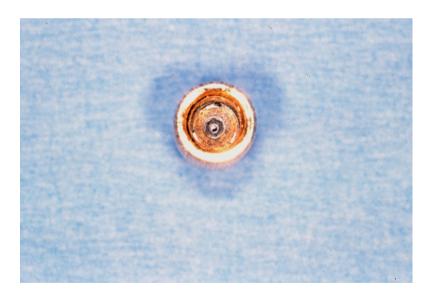


TRI®-Vent & TRI®-Octa

Locator® Overdenture Attachment System

 Locator Abutment Seating Tool has hex broach inside to allow connection to torque wrench driver



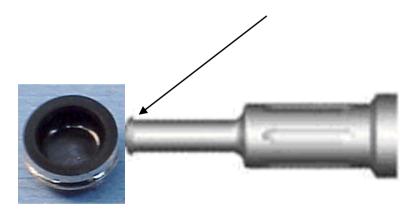




TRI®-Vent & TRI®-Octa

Locator® Overdenture Attachment System

Remove nylon males



Seat nylon males





TRI®-Vent & TRI®-Octa

Locator® Overdenture Attachment System

Impression Coping

Analog



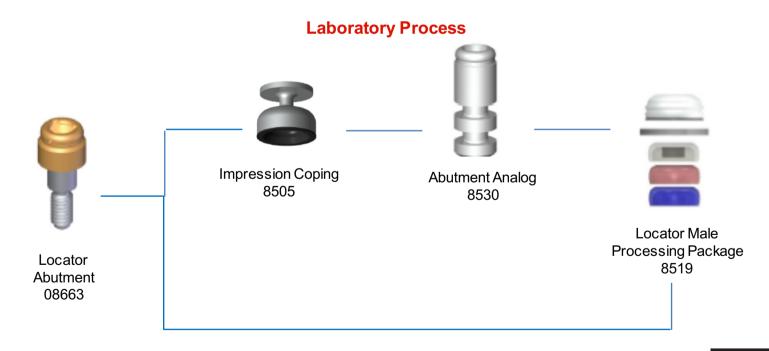


Through Research Innovative www.tri-implants.com



TRI®-Vent & TRI®-Octa

Locator® Overdenture Attachment System



Chairside Process



TRI®-Vent & TRI®-Octa

Locator® Overdenture Attachment System, catalog page 7 & 13

Catalog Nu	mber	Ø	CH	Material	Qt	y		
08661	Locator Abutment			TiN	1			
08662	Locator Abutment		1.0 mr	n TiN	1		1111	
08663	Locator Abutment		2.5 mr	m TiN	1			
08664	Locator Abutment		3.5 mr	n TiN	1			
08665	Locator Abutment		4.5 mr	m TiN	1		O8663	
08626	Locator Abutment		6.5 mr	n TiN	1			
LOCATOR	R® ABUTMENTS							
Catalog Nu	ımber	Ø	GH	Material	Qty	Sterile	i i	
08939	Locator-Abutment	4.5mm	1.3 mm	TiN	1	R		
08941	Locator-Abutment	4.5mm	3.0mm	TiN	1	R	u .	
							08	



TRI® -Vent, TRI®-Narrow & TRI®-Octa TRI® Ball Abutments

Inclusive in packaging:

Cap attachment housing

Nylon lyner white

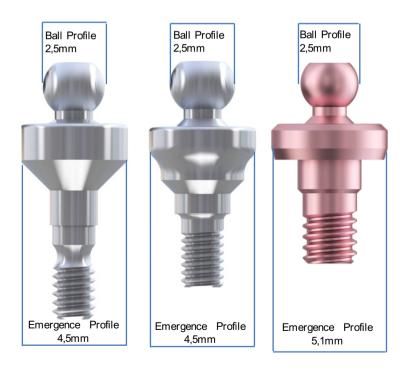
Ball Abutment





TRI®-Vent, TRI®-Narrow & TRI®-Octa

TRI® Ball Abutments







Available Cuff heights

TRI® -Vent & TRI®-Narrow 2mm 4mm

TRI® -Octa 1,6mm 3mm



TRI®-Vent, TRI®-Narrow & TRI®-Octa

TRI® Ball Abutments

- The Ball Abutment collar is regularly placed 1mm supragingival and has a coronal diameter of 4.5mm, while the ball component itself is 2.5mmD.
- When assembled, the vertical height of the Cap Attachment [CA] above the coronal aspect of the Ball Abutment collar is 4.28mm and its diameter is 5.00mm.
- The rotational aspect of the Cap Attachment on the ball component allows for adjustment of up to 28 degrees of relative divergence between implants.

All dimensions and measurements are the same for TRI®-Vent as well as for TRI®-Narrow.







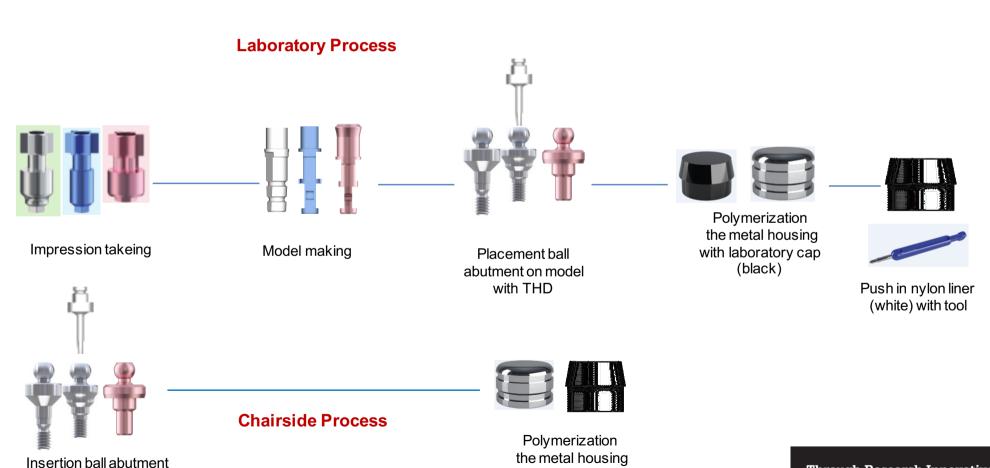
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TRI®-Vent & TRI®-Octa

TRI® Ball Abutments

(30N/cm) with THD & TW



with nylon lyner

(white)

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TRI® -Vent, TRI®-Narrow & TRI®-Octa

TRI® Ball Abutments

Chairside technique



Place the selected ball components into the implants and tighten to 30 Ncm with a calibrated torque wrench.



Attachment housing placed chairsite.

Rotate the housings up to 28° to create relative parallelism for a common path of insertion. Block out the undercuts beneath the housing with an appropriate silicone or wax material.



TRI® -Vent, TRI®-Narrow & TRI®-Octa

TRI® Ball Abutments



Place a small amount of autopolymerizing into the dry, relieved areas within the denture base. Also place a small amount of acrylic directly on the housings. Place the denture over the housings in the mouth and instruct the patient to bite lightly in centric occlusion. Remove the denture after the acrylic sets. Fill in any voids remaining around the processed housings with additional autopolymerizing acrylic and polish the areas surround the attachments.



TRI®-Vent, TRI®-Narrow & TRI®-Octa – catalog page 7, 10, 13

Overdenture Restorations

Catalog Nun	nber	Ø	CH	Material	Qty	
TV60-02	Ball Abutment incl. CAHL	4.5 mm	2.0 mm	Ti-6Al-4V	1	
TV60-04	Ball Abutment incl. CAHL	4.5 mm	4.0 mm	Ti-6Al-4V	1	
CAHL	Cap Attachment Housing and Liner - Transparent	4.0 mm		Stainless steel	1	TV60-04
CAH	Cap Attachment Housing			Ti	1	
CALT	Cap Attachment Liner- (Transparent - Standard retention)			Nylon	1	
CALG	Cap Attachment Liner - (Gray - Rigid retention)			Nylon	1	CAHL
CALB	Cap Attachment Liner - Lab Use - Black			Nylon	1	C/ 11/2

Overdenture Restorations

Catalog Nur	nber	Ø	CH	Material	Qty
TN60-02	Ball Abutment incl. CAHL	4.5 mm	2.0 mm	Ti-6Al-4V	1
TN60-04	Ball Abutment incl. CAHL	4.5 mm	4.0 mm	Ti-6Al-4V	1
CAHL	Cap Attachment Housing and Liner - Transparent			Stainless steel	1
C.111	c			Stainless	

	I V6U-U4
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RAII	ARIITMENT	- INCLUDES CAHL	
DALL	ADDITION	INCLUDES CALL	

Catalog Number		Ø	GH	Material	Qty	Sterile
TO60-16	Ball Abutment incl. CAHL	4.5 mm	1.6 mm	Ti-6Al-4V	1	\mathbf{R}
TO60-30	Ball Abutment incl. CAHL	4.5 mm	3.0 mm	Ti-6Al-4V	1	R