

User Manual







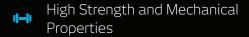
Zirconia Advantages



No Discoloration of Soft Tissues



Osseointegration Comparable with Titanium Implants



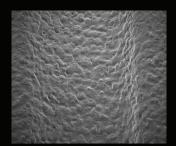
Excellent Alternative to Titanium Implants

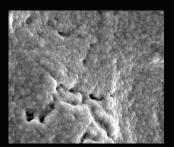
Healthy Looking Soft Tissues

Long-Term Health Improvement

Surface

WZirconia implants rough surface topography combines micro and macro roughness, ensuring reliable osseointegration.





Planning Guidelines

≥1.5 mm ≥3 mm Distance between implant shoulder and adjacent tooth should be minimum Distance between two implant shoulders should be minimum 3mm 1.5mm at bone level

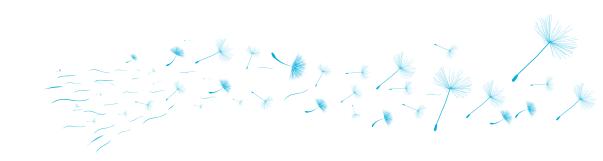
Healing Phase

	Situation			Healing Phase
-	Good bone quality and adequate bone quantity.	>>		Minimum 6 weeks.
-	Cancellous bone quality.	>>	-	Minimum 12 weeks.
	For all other conditions, such as bone augmentation or incomplete contact with the bone.	>>		A period of 3-6 months should be allowed for adequate bone healing following any required augmentation.

The healing time for osseointegration may vary. It is the physichian responsibility to make a decision regarding the implant loading.

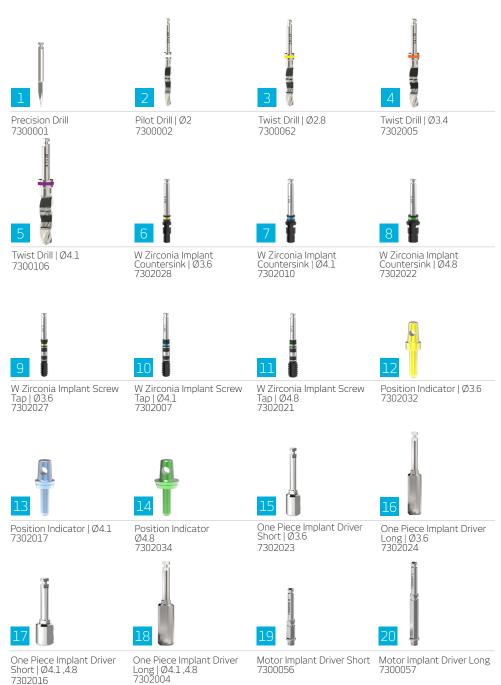






Grinding or altering any part of the implant or abutment is strictly prohibited. Grinding or altering may lead to micro-cracks which may result in implant failure.

X Zirconia Surgical Tools



7300056

7302016

X Zirconia Surgical Tools



Drilling Sequence





When use countersink consider bone type and desire implant shoulder level.

Tapping Sequence

Tapping sequence gives the surgeon the flexibility to adjust the surgical protocol to the bone type.

Catalog No.	Description		Dl	D2	D3	D4	Speed [rpm]
7302027	Ø3.6	##FFFF		0	_	_	15 (Max)
7302007	Ø4.1			0	_	_	15 (Max)
7302021	Ø4.8						15 (Max)





— Do not use



2Piece Zirconia Implant



The Slot connection geometry optimizes the force transfer applied on the implant connection during insertion and as a result allows to simplify the implant placement procedure.



Built-in emergence profile at the soft tissue level





1.8mm neck allowing trans-or subgingival healing



2piece implant for screw retained restorations

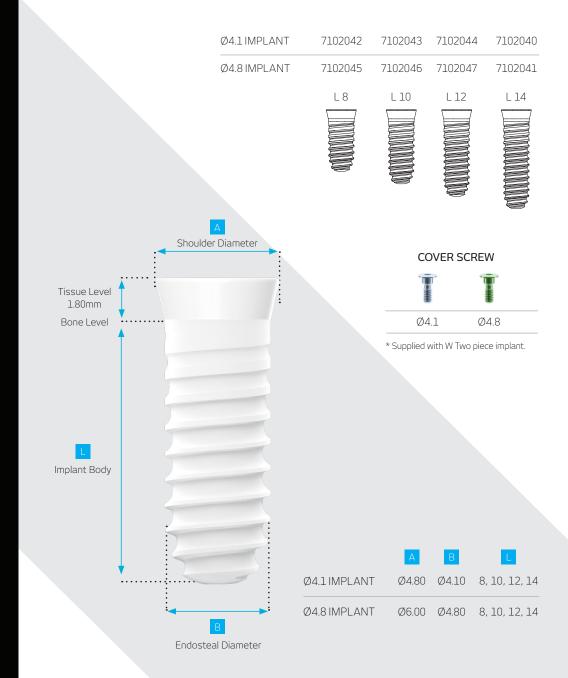


Rough surface topography combines micro and macro roughness



Thread pitch 1mm

2Piece Zirconia Implant



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2Piece Implant Packaging System

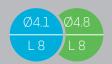
The packaging system of TAV Dental implants includes external implant packaging, sealed tube and sterile mini tube as well as additional contents. The sealed tube [9] provides bacterial/sterile barrier maintaining its inner volume (mini tube [8] and implant [6]) sterile throughout the product shelf life resulting with a complete sterile packaging system.

The content of the package is identified below:

- 1. External Implant Packaging
- 2. Instruction for Use Leaflet
- 3. Cover Cap
- 4 Cover Screw
- 5. Insertion Tool

- 6. W 2Piece Zirconia Implant
- 7. Support Ring
- 8. Sterile Mini Tube
- 9. Sealed Tube
- 10. 3 Patient Labels





Each package is identified with the implant outer diameter and length dimensions. The outer diameter is also represented by a color code.



The sealed tube serves as bacterial/sterile barrier assuring the sterility of the mini tube, which contains the implant. Do not use the implant if the sealed tube is opened or damaged.

Please Note: TAV Dental's sealed tube functions as sterile blister as used in some other implant packaging systems and serves as full bacterial/sterile barrier.





2Piece Implant Packaging Removal

Step 1 -



Take the external implant package.

Step 3 ⊢



Take out the product IFU and 3 patient labels.



Open the sealed tube, which contains the sterile mini tube.

→ Step 2



Remove the bottom cap of the external implant package.

¬ Step 4



Take the sealed tube out of the external package.

The sealed tube ensures the sterility of the sterile mini tube which contains the implant. Do not open the sealed tube until immediately before the implant placement.

2Piece Implant Packaging Removal



Pour the sterile mini tube containing the sterile implant directly into the aseptic field.

Step 8 -

Connect the Ratchet Adaptor and motor tool to the insertion tool and pull it out from the sterile mini tube while the implant is still connected to the insertion tool and the support ring.



Place the implant into the implant bed, according to the implant insertion instructions specified in Steps 1-4 on page 14, '2Piece Implant Insertion'.

- Step 7



Pull out the cover cap containing the cover screw and put it aside on an aseptic field. The cover screw will be used in Step 4 of Implant Insertion Instructions below, on page 14.

Step 9



Pull out the support ring horizontally.

2Piece Implant

The implant is a tissue level implant. The wide diameter of the implant should be 1.8mm above the bone level (see illustration).



A Please pay attention to the specified torque limits:

	Speed [rpm]	Recommended torque [N·cm]	Max. torque allowed [N·cm]
W TISSUE LEVEL ZIRCONIA IMPLANT	15	35	60
W ZIRCONIA IMPLANT COVER SCREW	N/A	15	N/A

2Piece Implant Insertion

Step 1 -



Begin placing the implant manually.

Step 3 -



Implantation is completed when the implant is positioned 1.8mm above the bone level.

Step 2



Use either a Ratchet Adaptor and motor tool with torque ratchet, or a motor tool with hand piece to fully insert the implant to the implantation site, make sure not to exceed the torque specified limits.



If maximum torque is achieved before the implant reaches its final position check again the bed preparation.

Step 4



Remove the cover screw from the bottom cap using a Dual Purpose Screw Driver Long (7300051) and screw it manually into the implant. Use the torque ratchet to fully insert the cover screw, make sure not to exceed the torque specified limits. Suture the gingiva over the cover screw.

TL Zirconia Implant Abutments

TL Zirconia Implant Abutments for Bridge



TL Zirconia Implant Abutments



An angled abutments are not to be placed in the molar region



The Abutments are supplied non-sterile, to be sterilized by the physician before use see IFU 7900154. Abutments Recommended Tightening Torques 30N·cm.



Healing Cap for 2Piece Implant

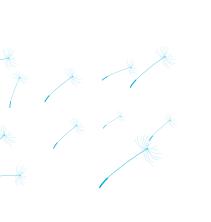


The healing caps are supplied non-sterile, to be sterilized by the physician before use, see IFU 7900154.

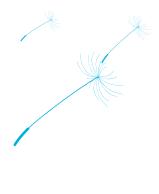
Prosthetic Procedure for Healing Cap

- Step 1 Ensure the internal configuration of the implant is clean and bloodless.
- Step 2 Insert the healing abutment onto the implant.
- Step 3 Tighten the Healing abutment onto the implant to 15 N·cm using Ratchet torque.
- Step 4 Adapt the soft tissue and suture it back tightly around the abutment.
- Step 5 Remove after the healing phase completed, no later than 180 days.

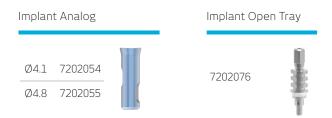








Open Tray Impression



Open Tray Technique for 2Piece Implant

- Step 1 Remove the healing cap after the healing phase.
 - Step 2 Connect the implant transfer (7202076) to the implant with a fixation screw.
- Step 3 Prior to impression taking make sure the holes are positioned accurately and the transfer can penetrate through the holes.
- Step 4 Take the impression using silicone impression material. Make sure the transfer screw extend through the hole.
- Step 5 Remove the fixation screw to uncouple the transfer and remove the impression tray.
- Step 6 Connect the relevant implant analog to the transfer on the impression tray.
- Step 7 Use the final impression to create master cast model.

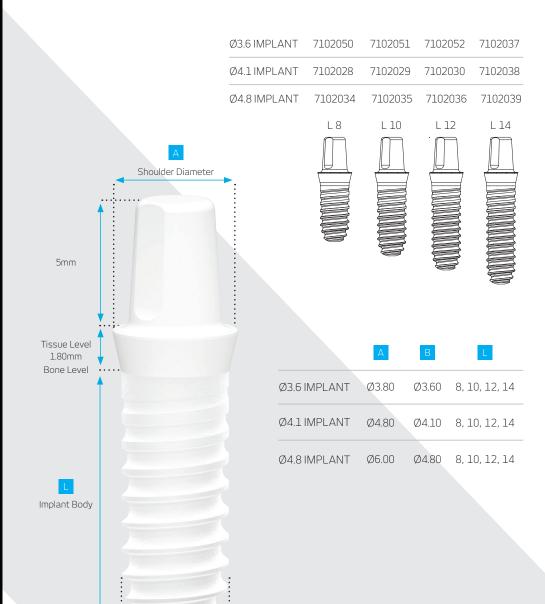


One Piece Zirconia Implant

One piece design with integrated abutment Built-in emergence profile at the soft tissue level 1.8mm neck Rough surface topography combines micro and macro roughness Thread pitch 1mm

One Piece Zirconia Implant

Endosteal Diameter



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Grinding or altering any part of the implant or abutment is strictly prohibited. Grinding or altering may lead to microcracks which may result in implant failure.

One Piece Packaging System

The packaging system of TAV Dental implants includes external implant packaging, sealed tube and sterile mini tube as well as additional contents. The sealed tube [8] provides bacterial/sterile barrier maintaining its inner volume (mini tube [7] and implant [5]) sterile throughout the product shelf life resulting with a complete sterile packaging system.

The content of the package is identified below:

- 1. External Implant Packaging
- 2. Instructions for Use Leaflet
- 3. Cover Cap
- 4. Implant Holder
- 5. W One Piece Zirconia Implant

- 6. Support Ring
- 7. Sterile Mini Tube
- 8. Sealed Tube
- 9. 3 Patient Labels

Each package is identified with the implant outer diameter and length dimensions. The outer diameter is also represented by a color code.



One Piece Packaging Removal





Take the external implant package.

Step 3



Take out the product IFU and 3 patient labels

Step 5



Open the sealed tube, which contains the sterile mini tube.

→ Step 2



Remove the bottom cap of the external implant package.

Step 4



Take the sealed tube out of the external package.

The sealed tube ensures the sterility of the sterile mini tube which contains the implant. Do not open the sealed tube until immediately before the implant placement.

One Piece Packaging Removal



Pour the sterile mini tube containing the sterile implant directly into the aseptic field.



- Step 7

mini tube face up.

Step 9

Use new sterile gloves and hold the sterile

Pull out the support ring horizontally.



Connect the implant driver to the implant holder and pull it out from the sterile mini tube while the implant is still connected to the implant holder and the support ring.

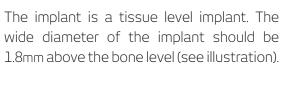




Place the implant into the implant bed according to Steps 1-3 described on page 25, One Piece Implant Insertion.

One Piece Implant Insertion

wide diameter of the implant should be 1.8mm above the bone level (see illustration).



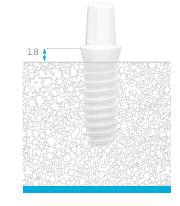


Begin Placing the implant manually, while implant holder still connected.





Implantation is completed when the implant is positioned 1.8mm above the bone level.



Step 2



Use either torque ratchet, or a motor tool with hand piece to fully insert the implant to the implantation site, make sure not to exceed the torque specified limits. In case implant holder disassembled from implant before reaching final position, continue implantation without implant holder using motor tool.



If maximum torque is achieved before the implant reaches its final position check again the bed preparation.



A Please pay attention to the torque limits specified below:

	·	·	
	Speed [rpm]	Recommended torque [N.cm]	Max. torque allowed [N.cm]
W ONE PIECE ZIRCONIA IMPLANT	15	35	60

PEEK Healing Cap

Healing caps are intended to protect the implant during the healing phase and to support the emergence profile. The healing caps also support the emergence profile and keep the implant shoulder ideal for the impression phase.

PEEK Healing Cap

Ø3.6	7202031
Ø4.1	7202013
Ø4.8	7202028



The healing caps are supplied non-sterile, to be sterilized by the physician before use, see IFU 7900154.

Prosthetic Procedure for Healing Cap

- Step 1 Ensure the implant integrated abutment is clean and bloodless
- Step 2 Snap the healing cap onto the implant integrated abutment.
- **Step 3** Prepare a protective device using standard technique.
- Step 4 Make sure the protective device is attached to adjacent teeth only and keep a space of minimum 1.5mm between the protective device and the healing cap. Healing caps are used during healing phase only and do not support a restoration.
- Step 5 Remove after the healing phase completed.

PEEK Temporary Cap

Temporary Cap for Crown

Ø3.6	7202032
Ø4.1	7202016
Ø4.8	7202029



Temporary Cap for Bridge

Ø3.6	7202033
Ø4.1	7202017
Ø4.8	7202030



Prosthetic Procedure for Temporary Cap

- Step 1 Snap the temporary cap to the implant integrated abutment.
- Step 2 Mark the appropriate height and shorten the cap as required, make sure the temporary restoration is out of occlusion.
 - **Step 3** Fabricate the provisional crown according to standard procedure and cement the provisional crown to the cap.
- Step 4 Remove the undercut snap from the cap to allow appropriate excess cement flow.
- Step 5 Apply temporary cement into the cap inner part.
- Step 6 Cement the cap already assembled with the provisional crown to the integrated abutment.
- Step 7 Remove no later than 180 days.



TAV Dental healing caps are indicated to be placed in patients mouth at the end of TAV Dental implant placement for maximum of 180 days.



The Temporary Cap are supplied non-sterile, to be sterilized by the physician before use see IFU 7900154

Closed Tray Impression

Implant Analog

 03.6
 7202037

 04.1
 7202011

 04.8
 7202039



Ø3.6	7202034
Ø4.1	7202014
Ø4.8	7202036

Closed Tray Technique for One Piece Implant

- **Step 1** Remove the temporary cap after the healing phase.
- Step 2 Snap the relevant plastic transfer to the implant integrated abutment.
- Step 3 Take the impression using silicone impression material. After removing the tray the plastic transfer remains in the impression material.
- Step 4 Snap the relevant implant analog to the transfer which remains on the impression material.
- Step 5 Use the final impression to create master cast model. using standard technique.

Smile, you look much better



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