



RHEIN 83

Rhein 83

Product Catalogue



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For more information scan the below



or visit

SOUTHERNIMPLANTS.COM





Rhein83 a créé le modèle Ot Equator en 2007 en tant qu'attachement direct pour prothèse adjointe. Par la suite, l'attachement a été modifié en créant un filetage à l'intérieur de la boule afin que l'attachement Ot Equator puisse également être utilisé pour les prothèses vissées, en l'utilisant exactement comme un M.U.A. avec tous les avantages d'avoir de nombreuses hauteurs réglables disponibles. Ot Equator conserve sa petite taille tout au long du parcours transmuqueux.

La flexibilité et la multifonctionnalité de l'attachement Ot Equator permettent aux utilisateurs d'avoir un seul attachement pour tous les types de prothèses implantaires.

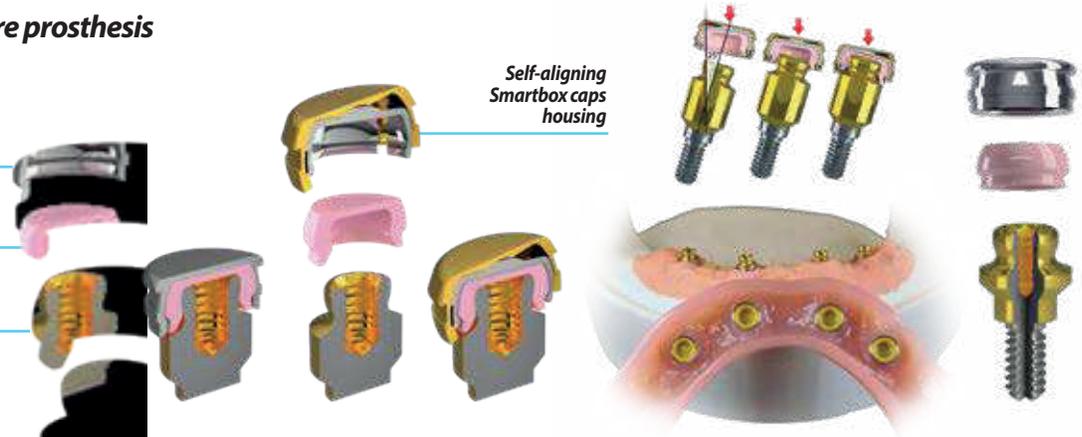
Direct overdenture prosthesis

Stainless steel caps housing

Retentive cap

Ot Equator attachment

Self-aligning Smartbox caps housing



Removable prosthesis with double structure with primary and secondary bars

Titanium locking screw

self extracting seeger ring

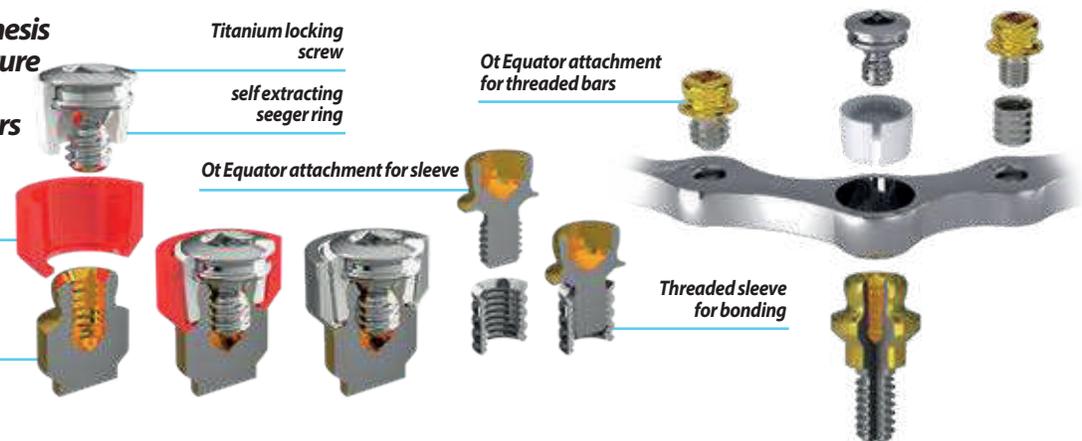
Ot Equator attachment for threaded bars

Castable cylinder housing

Ot Equator attachment for sleeve

Threaded sleeve for bonding

Ot Equator attachment



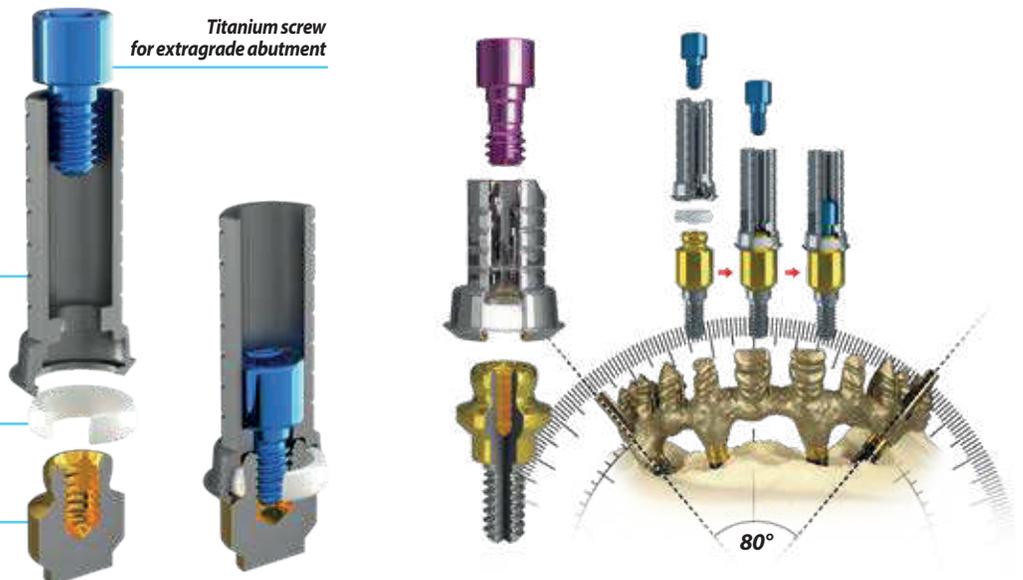
Fixed screw-retained prosthetics toronto bridge type

Titanium screw for extragrade abutment

Extragrade abutment for fixed prosthesis

White seeger with handle for fixed prosthesis

Ot Equator attachment





Ot Equator attachment

THE HEIGHT OF THE EDGE OF HEALING IS AVAILABLE FROM 0.5 to 7mm



Impression transfer tear-off



Impression transfer



Stainless steel analog for plaster model



Square screwdriver + Ot Equator Holder

USABLE WITH MANUAL WRENCH TORQUE DEVICE



Screw driver connector

SQUARE 1,25mm



Interchangeable holder

FOR OT EQUATOR



Housing spacer

OT EQUATOR



Protective discs



Ratchet torque control device



Ot Equator Caps Inserter/Extractor tool

NORMAL/MICRO - OT EQUATOR



Caps housing

Stainless steel



Caps housing

Titanium



Smartbox caps housing

with black positioning housing



Black Smartbox cap

Positioning



Violet cap

Rigid retention 2700g



White cap

Standard retention 1800g



Pink cap

Soft retention 1200g



Yellow cap

Extra soft retention 600g



Black cap

No retention Exclusively for the laboratory



Reduced internal diameter aqua cap

Strong 1300g



Reduced internal diameter orange cap

Very elastic 350g

Smart BOX

the self-aligning Ot Equator Housing



Metal to metal rotational core

Titanium anodized housing

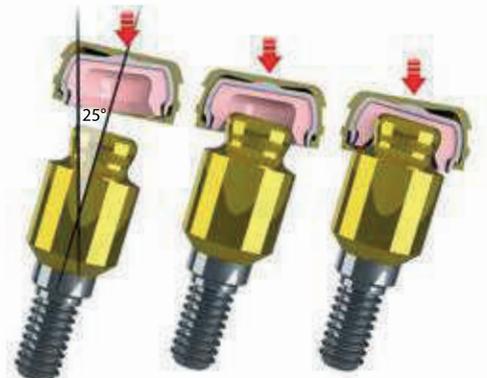
Titanium liner

Elastic cap

Passive insertion reduces trauma

Correct divergency up to 50°

The geometries of the Ot Equator attachment together with the traditional coping box allow the prosthesis to have superior retention than the traditional spherical attachment, correcting divergences of up to 15° between implants, without affecting the function of the retentive copings.





EXTERNAL-HEX

Ø3 | Ø3.25 | Ø4 | Ø5



EXTERNAL-HEX

Ø3 mm

- 030SIP2 - OT Equator External Hex ø3x2mm
- 030SIP3 - OT Equator External Hex ø3x3mm
- 030SIP4 - OT Equator External Hex ø3x4mm
- 030SIP5 - OT Equator External Hex ø3x5mm
- 030SIP6 - OT Equator External Hex ø3x6mm
- 030SIP7 - OT Equator External Hex ø3x7mm

Ø3.25 mm

- 030TRE3252 - OT Equator External Hex ø3.25x2mm
- 030TRE3253 - OT Equator External Hex ø3.25x3mm
- 030TRE3254 - OT Equator External Hex ø3.25x4mm
- 030TRE3255 - OT Equator External Hex ø3.25x5mm
- 030TRE3256 - OT Equator External Hex ø3.25x6mm
- 030TRE3257 - OT Equator External Hex ø3.25x7mm

Ø4 mm

- 030BRK2 - OT Equator External Hex ø4x2mm
- 030BRK3 - OT Equator External Hex ø4x3mm
- 030BRK4 - OT Equator External Hex ø4x4mm
- 030BRK5 - OT Equator External Hex ø4x5mm
- 030BRK6 - OT Equator External Hex ø4x6mm
- 030BRK7 - OT Equator External Hex ø4x7mm

Ø5 mm

- 030IWP52 - OT Equator External Hex ø5x2mm
- 030IWP53 - OT Equator External Hex ø5x3mm
- 030IWP54 - OT Equator External Hex ø5x4mm
- 030IWP55 - OT Equator External Hex ø5x5mm
- 030IWP56 - OT Equator External Hex ø5x6mm
- 030IWP57 - OT Equator External Hex ø5x7mm



Prosthetic Workflow



Z-EQ-ICT



Impression
Transfer Coping

Z-EQ-LA



Analogue

Two housing options available

Z-EQ-RC6



Metal Housing
and
Retentive Caps
(6piece kit)

Z-EQ-S-BOX



Metal Housing
for
Passive Insertion
and
Retentive Caps
(6piece kit)

RETENTION



Rigid



Standard



Soft



Extra-Soft



Processing



DEEP CONICAL

Ø3 | Ø3.5 | Ø4 | Ø6



DEEP CONICAL

Ø3 mm

- 030AS31 - OT Equator DC ø3x1mm
- 030AS32 - OT Equator DC ø3x2mm
- 030AS33 - OT Equator DC ø3x3mm
- 030AS34 - OT Equator DC ø3x4mm
- 030AS35 - OT Equator DC ø3x5mm
- 030AS36 - OT Equator DC ø3x6mm
- 030AS37 - OT Equator DC ø3x7mm

Ø3.5 | Ø4 mm

- 030AOA1 - OT Equator DC ø3.5/4 x1mm
- 030AOA2 - OT Equator DC ø3.5/4 x2mm
- 030AOA3 - OT Equator DC ø3.5/4 x3mm
- 030AOA4 - OT Equator DC ø3.5/4 x4mm
- 030AOA5 - OT Equator DC ø3.5/4 x5mm
- 030AOA6 - OT Equator DC ø3.5/4 x6mm
- 030AOA7 - OT Equator DC ø3.5/4 x7mm

Ø6 mm

- 030AOL - OT Equator DC ø5x0mm
- 030AOL05 - OT Equator DC ø5x0.5mm
- 030AOL1 - OT Equator DC ø5x1mm
- 030AOL2 - OT Equator DC ø5x2mm
- 030AOL3 - OT Equator DC ø5x3mm
- 030AOL4 - OT Equator DC ø5x4mm
- 030AOL5 - OT Equator DC ø5x5mm
- 030AOL6 - OT Equator DC ø5x6mm
- 030AOL7 - OT Equator DC ø5x7mm



Prosthetic Workflow





INTERNAL HEX | PROVATA

Ø3.3 | Ø4 | Ø8 | Ø9



INTERNAL HEX | PROVATA

Ø3.3 mm

- 030PRO332 - OT Equator Provata ø 3.3x2mm
- 030PRO333 - OT Equator Provata ø 3.3x3mm
- 030PRO334 - OT Equator Provata ø 3.3x4mm

Ø4 mm

- 030SMD05 - OT Equator Provata ø4x0.5mm
- 030SMD1 - OT Equator Provata ø4x1 mm
- 030SMD2 - OT Equator Provata ø4x2mm
- 030SMD3 - OT Equator Provata ø4x3mm
- 030SMD4 - OT Equator Provata ø4x4mm
- 030SMD5 - OT Equator Provata ø4x5mm
- 030SMD6 - OT Equator Provata ø4x6mm
- 030SMD7 - OT Equator Provata ø4x7mm

Ø8 | Ø9 mm

- 030BV4505 - OT Equator Provata ø7 8 9x0.5mm
- 030BV451 - OT Equator Provata ø7 8 9x1 mm
- 030BV452 - OT Equator Provata ø7 8 9x2mm
- 030BV453 - OT Equator Provata ø7 8 9x3mm
- 030BV454 - OT Equator Provata ø7 8 9x4mm
- 030BV455 - OT Equator Provata ø7 8 9x5mm
- 030BV456 - OT Equator Provata ø7 8 9x6mm
- 030BV457 - OT Equator Provata ø7 8 9x7mm



Prosthetic Workflow





IT CONNECTION

04 | 06



IT CONNECTION

Ø4 mm

- 030BFT - OT Equator IT ø4.8x0mm
- 030BFT05 - OT Equator IT ø4.8x0.5mm
- 030BFT1 - OT Equator IT ø4.8x1mm
- 030BFT2 - OT Equator IT ø4.8x2mm
- 030BFT3 - OT Equator IT ø4.8x3mm
- 030BFT4 - OT Equator IT ø4.8x4mm
- 030BFT5 - OT Equator IT ø4.8x5mm
- 030BFT6 - OT Equator IT ø4.8x6mm
- 030BFT7 - OT Equator IT ø4.8x7mm

Ø6 mm

- 030BFT48 - OT Equator IT6 ø6x0mm
- 030BFT4805 - OT Equator IT6 ø6x0.5mm
- 030BFT481 - OT Equator IT6 ø6x1mm
- 030BFT482 - OT Equator IT6 ø6x2mm
- 030BFT483 - OT Equator IT6 ø6x3mm
- 030BFT484 - OT Equator IT6 ø6x4mm
- 030BFT485 - OT Equator IT6 ø6x5mm
- 030BFT486 - OT Equator IT6 ø6x6mm
- 030BFT487 - OT Equator IT6 ø6x7mm



Prosthetic Workflow





140CEG - Retentive cap yellow extra soft x4



140CEN - Retentive cap black (lab use)



140CER - Retentive cap pink soft x4



140CET - Retentive cap clear standard x4



140CEV - Retentive cap violet strong x4



141CAE - Stainless steel housings x2



141CTE - Titanium housings fuchsia x2



330SBE - Smart Box housing



335CSB - Black Smart Box x4





144TLE - Long Impression Coping OT Equator h1 1.5
144TTE - Titanium Impression Coping OT Equator h6



145SAE - Scanning Flag OT EQUATOR



145SAE - Scanning Flag OT EQUATOR



144AVC4 - Analogue Digital Equator ø4.0
144AVC5 - Analogue Digital Equator ø5.0



159VAG - Screw and Healing Ring



A1502 - Analogue Equator ø5.0



144AE - Analogue Equator ø4.0
A1502 - Analogue Equator ø5.0



774CHE - Instrument Driver Equator



775CLE - Long Instrument Driver Equator





124ICP - UNIVERSAL HANDLE



490IS - Insertion/Extractor Tool Kit Equator



774HC - Interchangeable Holder Equator



CLINIC**Attaching the caps in clinic**

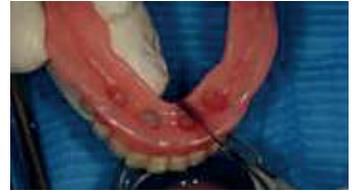
Select the OT Equator with the appropriate cuff height. Screw the OT Equator into the implant.



Place the protective disk over the OT Equator. Then, place the stainless steel housing with cap on the attachment.



Verify the positioning of the prosthesis before bonding the stainless steel housing.



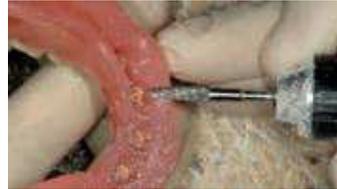
On the prosthesis, fill the implant sites with a self curing resin and insert into the patient's mouth.



Remove the prosthesis and verify that the positions of the attachments are correct.



Remove the protective disks.



Carefully trim away the excess resin.



The completed prosthesis.

CLINIC**Impression transfer**

Place the impression coping on the OT Equator.



Insert the analog into the impression coping and pour the master model.



Add sprues to the framework and remove it from the model. Be sure that the stainless steel housing does not remain inside.



The metal frame with stainless steel housings bonded in place.

CLINIC**Chairside procedure for Smartbox positioning**

Screw in the appropriate OT Equator attachment at the height of the gingival margin.



First place the protective disk and then the Smartbox on the OT Equator.



Place a drop of resin in the space prepared to accommodate the Smartbox and insert the prosthesis in the mouth.



When polymerisation is complete, remove the prosthesis with the Smartboxes enclosed, taking care to also remove the protective discs.



Finish the prosthesis while still retaining the black cap protecting the Smartbox.



When the prosthesis is finished, remove the black cap. The Smartbox mechanism is now free to move.



Insert the desired retention cap with the insertion tool.



Work finished.



Watch the Ot Equator Video on Youtube



Watch the Ot Equator Smartbox Video on Youtube

OT
Bridge



Some advantages of using the Ot Equator attachment

Operating personnel will find themselves greatly facilitated by handling a single component during all surgical and prosthetic phases, significantly reducing time and handling of components and accessories. The real revolution offered by the system such as the saving of materials, instruments and working time is a fundamental aspect for the clinic and laboratory, which will also be able to use the Ot Equator attachment with the most modern digital techniques compatible with the most important cad-cam software. The Ot Equator attachment is produced for all known and unknown implant manufacturers in the world; therefore, it allows all prosthetic platforms to be unified, enabling the surgeon to use even different types of implants in the same clinical case.

1 Only driver for screwing all components in the studio and laboratory ✓

1 Only transfer for impression taking ✓

1 Only laboratory analogue for all implant houses ✓

OT
Bridge

Scientific research has now made it possible to use the Ot Equator attachment also in screw-retained fixed dentures, thanks to the thread located inside the ball. This complete line, an alternative to cemented or screw-retained prostheses on M.U.A., revolutionises screw-retained fixed prostheses by using the "Seeger", an acetal ring that is inserted inside the Extragrade prosthetic abutment, obtaining a double seal on the Ot Equator attachment, both mechanical and retentive. The anchoring force of this Seeger ring, together with the screwed components, allows the elimination of 25% of

the prosthetic screws, obtaining an eNORMALus advantage for the aesthetics and hygiene of fixed prostheses on implants. By using the Extragrade titanium abutment correctly, undercuts between implants of even more than 80° can be overcome without the use of milling components or angled M.U.A.'s.

Set 42

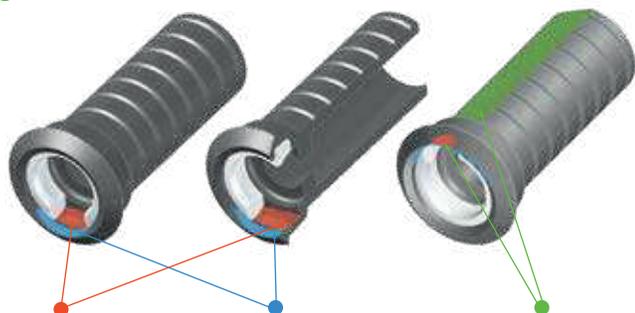
The 42 autoclavable Set (BE42 + 42 Ot Equator as a choice) allows the clinician to have all Ot Equator attachment heights available at all times for all cases of implant-supported prosthetics: direct removable prosthetics, removable prosthetics with bar and double framework, screw-retained fixed prosthetics, with particular indication for those performing immediate load surgery.

Set 42 is produced and dispatched within 5 days of order, please indicate: make of plant, diameter and height. Available heights for internal hex implants from 0.5 to 7mm for external hex implants from 2 to 7 mm



Extragrade and seeger anti-rotation systems

- Seeger anti-rotation system
- Extragrade system
- Reference flat milled surface



The anti-rotationality of the seeger ring is possible thanks to the stop inside the prosthetic abutment which prevents any seeger rotation.

The OT Bridge prosthetic abutment must be positioned with its extragrade flaring in correspondance of the implant undercut.

The external flat milled surface acts as reference point and identifies the position of the internal extragrade flaring.

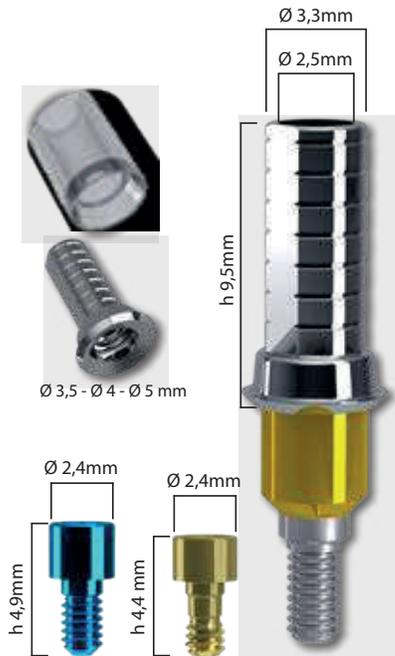


With divergent implants, the extragrade abutment must be inserted with the external flat milled surface in correspondance of the maximum undercut of the Ot Equator.

TITANIUM ABUTMENTS WITH THROUGH HOLE SCREW AND CASTABLE SLEEVE

The titanium abutments with through hole screw are used in all dentures where the divergence does not create any aesthetic problem for the access to the prosthetic screw in the dental arch. Extragrade titanium abutments are available in Standard and Mini size.

STANDARD Extragrade Abutment



TITANIUM ABUTMENTS INCLINED AT 15° AND CASTABLE SLEEVE

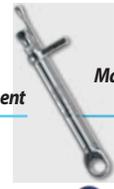
The Extragrade titanium abutments are used to create a fixed denture "Seeger Bridge" even on very divergent implants, exploiting, with the Seeger, the abutment undercuts as an anchoring area obtaining in this way a "snap" retention.

INCLINED AT 15° Extragrade Abutment



MINI Extragrade Abutment



			
Ot Equator Abutment	Manual torque wrench	Scan abutment Ot Equator	Square Driver + holder
			USABLE WITH THE MANUAL TORQUE WRENCH
			
White and pink Seeger with handle	Inserter/Extractor + tester for Seeger	Short square driver + holder	
STANDARD WHITE SOFT PINK	WITH HANDLE AND CASE	USABLE WITH THE MANUAL TORQUE WRENCH	
			
Ot Equator Screwdriver/Stem	Screwdriver/Stem for inclined channel	Short screwdriver/Stem for inclined channel	
READY FOR HOLDER, FOR TORQUE CONTROLLER CONTRA ANGLE (SQUARE 1.25MM) AND FOR SCREWDRIVER/STEM ADAPTER	FOR TORQUE CONTROLLER (SQUARE 1.25MM) AND FOR MANUAL TORQUE WRENCH ADAPTER	FOR TORQUE CONTROLLER (SQUARE 1.25MM) AND FOR MANUAL TORQUE WRENCH ADAPTER	
			
Screwdriver/Stem adapter	Castable connector	Composite cement Ot Cem	
USABLE WITH MANUAL TORQUE WRENCH		FOR THE METAL BONDING (2 COMPONENTS)	

					
Titanium screw H11,5mm	Titanium screw H6mm	Titanium screw H2mm	Titanium screw	Titanium screw	Spherical titanium screw
FOR EXTRAGRADE ABUTMENT	FOR EXTRAGRADE ABUTMENT	FOR EXTRAGRADE ABUTMENT	FOR MINI EXTRAGRADE ABUTMENT	FOR EXTRAGRADE ABUTMENT	FOR INCLINED EXTRAGRADE ABUTMENT



GC - CASTABLE TITANIUM ABUTMENT Ø 3,5mm



GCMR4 - CASTABLE TITANIUM ABUTMENT Ø 4mm



GMM - CASTABLE MINI TITANIUM ABUTMENT Ø 3,5mm



HR800 - TITANIUM WIRE ELASTIC MEMORY Ø 1,0mm



MTB30FP - TEMPORARY TITANIUM ABUTMENT BRIDGE



MTFP - TEMPORARY TITANIUM ABUTMENT BRIDGE



RMMSEG - MINI EXTRAGRADE TITANIUM ABUTMENT Ø 3mm



RMT40SEG - EXTRAGRADE TITANIUM ABUTMENT Ø 4mm



RMT50SEG - EXTRAGRADE TITANIUM ABUTMENT Ø 5mm



RMTSEG - EXTRAGRADE TITANIUM ABUTMENT Ø 3.5mm



RMTEG15SF - EXTRAGRADE TITANIUM ABUTMENT 15° Ø 4mm



RMTSFEG - EXTRAGRADE TITANIUM ABUTMENT 15° Ø 3,5mm



146VMI - SCREW EXTRAGRADE ABUTMENT INCLINED





Prosthetics Parts



147VME - SCREW EXTRAGRADE ABUTMENT



148VCM - SCREW EXTRAGRADE MINI ABUTMENT



VC - TITANIUM SCREW EXTRAGRADE ABUTMENT



VM - TITANIUM SCREW EXTRAGRADE ABUTMENT



VXL - TITANIUM SCREW EXTRAGRADE ABUTMENT



124ICP - UNIVERSAL HANDLE



490IS - Insertion/Extractor Tool Kit Equator



145SAE - Scanning Flag OT EQUATOR



FIXED PROsthESIS OT BRIDGE

Castable abutments

Castable abutment with through-screw and seeger



Castable abutment without screw, only seeger



 <p>Ot Equator Abutment</p>	 <p>Manual torque wrench</p>	 <p>Square Driver + holder</p> <p>USABLE WITH THE MANUAL TORQUE WRENCH</p>	 <p>Short square driver + holder</p> <p>USABLE WITH THE MANUAL TORQUE WRENCH</p>	 <p>Castable connector</p>
 <p>White Seeger with handle</p> <p>STANDARD</p>	 <p>Pink Seeger with handle</p> <p>SOFT</p>	 <p>Insertor/Extractor + tester for Seeger</p> <p>WITH HANDLE AND CASE</p>	 <p>Insertion handle</p> <p>MINI TRANSFER</p>	 <p>Special bur</p> <p>FOR THE POLISHING OF THE ABUTMENT HOUSING</p>
 <p>Ot Equator Screwdriver/Stem</p> <p>READY FOR HOLDER, FOR TORQUE CONTROLLER CONTRA ANGLE (SQUARE 1.25MM) AND FOR SCREWDRIVER/STEM ADAPTER</p>	 <p>Screwdriver/Stem adapter</p> <p>USABLE WITH MANUAL TORQUE WRENCH</p>	 <p>Titanium screw H11,5mm</p> <p>FOR EXTRAGRADE ABUTMENT</p>	 <p>Titanium screw H6mm</p> <p>FOR EXTRAGRADE ABUTMENT</p>	 <p>Titanium screw H2mm</p> <p>FOR EXTRAGRADE ABUTMENT</p>

LABORATORY Castable abutments



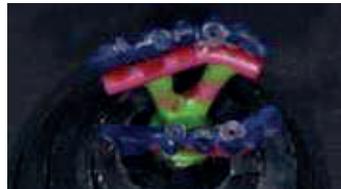
Model analysis with the help of the diagnostic teeth set-up mask. Where the space is limited, the Extragrade castable abutment is advisable which, while allowing a passive insertion, overcomes the divergencies and can be shaped accordingly to the available spaces.



Into the castable abutment with screw, likewise the titanium abutment with screw, you can see the bevel called Extragrade.



The Extragrade position is indicated by the flat surface outside the abutment; this must always be positioned in correspondence with the undercut created by the tilted implant.



Moulded bar with casting pins ready for investment.



Detail of the castable abutment after casting and sandblasting.



Special cutter used to clean off oxide or any small bubbles inside the cast core.



Test the accuracy of the casting with the Ot Equator analogue before proceeding with the finishing and polishing of the structure.



Polished and ready to be finished with aesthetic coating.



Insert the Seeger as in the photo, placing the open part in the Extragrade portion of the titanium abutment.



Finished work seen from below (caudal).



Vestibular view. It can be seen that thanks to the pre-angled stumps and Seeger there are no vestibular holes.



Work completed.

