

OT EQUATOR PROSTHETIC



Fixed and Removable Dentistry

OT EQUATOR

THE DUAL PROSTHETIC SOLUTION



www.rhein83.it





«NARROW PROFILE» TITANIUM ABUTMENT

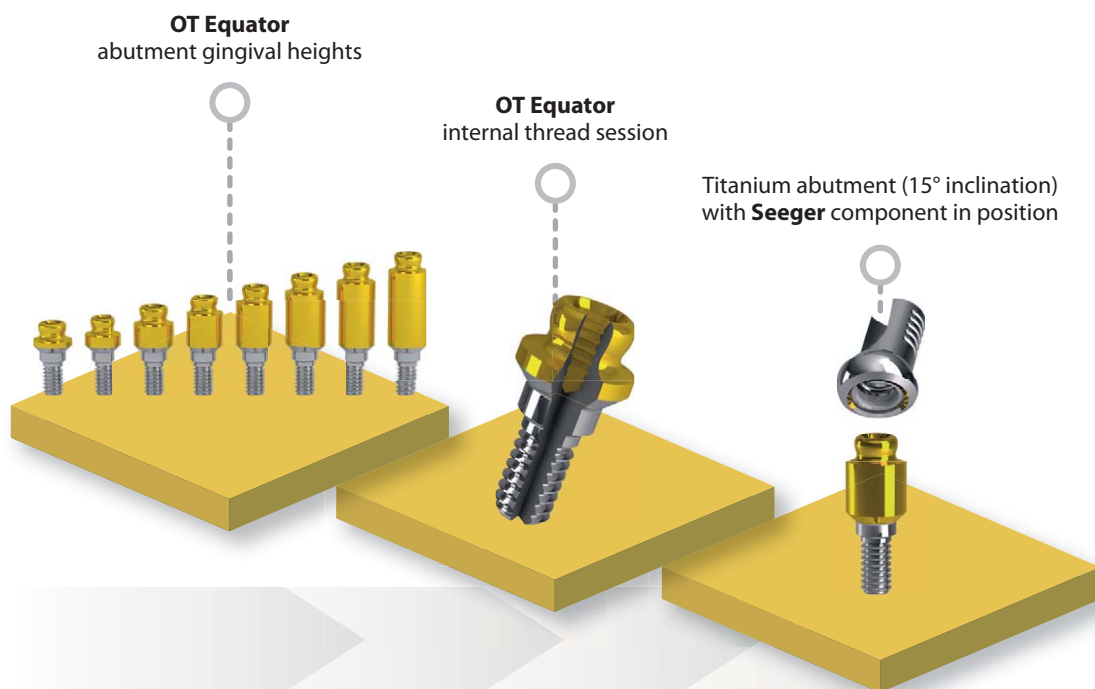
UNIVERSALITY: The **OT Equator** abutment allows to manage all types of prosthetic projects by relying on a unique component counting on the perfect personalization for all the different implant platforms. Multiple gingival heights are available and modulated according to the type of implant connection (internal, external, conical, hexagonal and more!).

DESIGN: The **OT Equator** abutment makes it easier to construct the prosthesis by reducing the number of components used in each structure. The «narrow» design offers reduced dimensions compared to all other implant components (both vertically and horizontally).

SPACES: Compared to the standard MUA (Multi Unit Abutment) components, **OT Equator** results to be the optimal solution in case of limited spaces while maintaining a «thin and narrow» profile throughout its transmucosal path. This optimizes the platform switching procedures ensuring a great saving of bone tissue with important aesthetic and functional advantages.

SEEGER: This component represents the third generation of implant connections after screwed and cemented solutions. The **Seeger** ring, with its unique conical design, has allowed the elimination of passing screws in buccal-inclined implants thanks to the Snap-On insertion protocol which offers a retentive capacity superior to 8kg. Another fundamental function is to prevent the possible unscrewing and fracture of the prosthetic screws.

PROSTHETIC: The prosthesis will be inserted easily even with miss alignment levels over 85° among the dental implants. This versatility offers a significant reduction in working times by not having to use any type of meso-structures, abutments with different angles, milled or conometric components.





FIXED PROSTHESIS RESTORATIONS TECHNIQUE

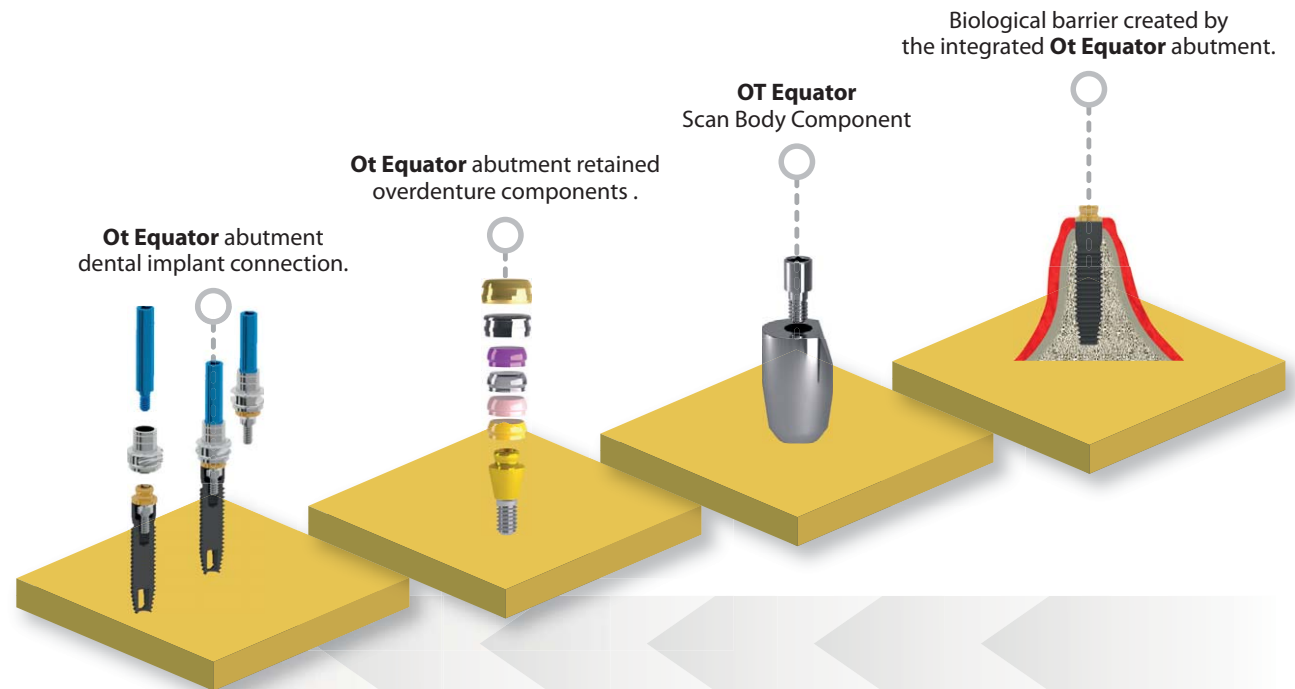
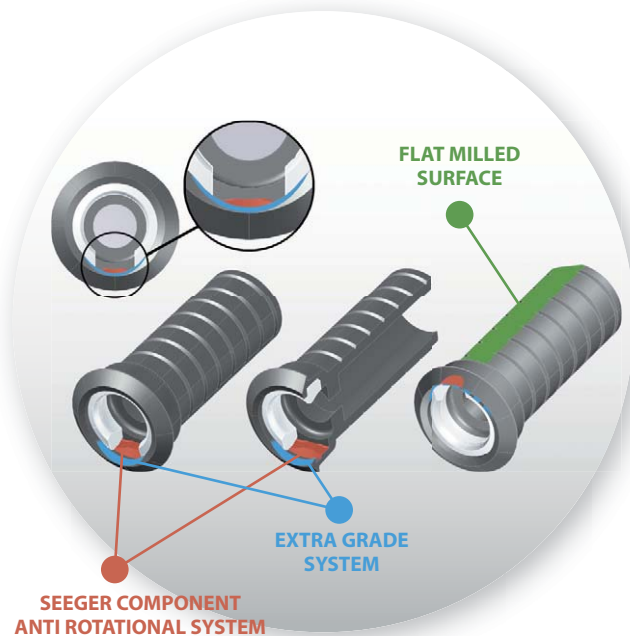
MECHANICS: Counting on to the shock absorber function (avoiding any horizontal tension) of the Seeger component, an ideal primary stability is immediately reached allowing to position the bar (structure) up to the screwing of the screws.

PROTOCOL: The clinician will count on his/her favorite procedure by positioning the **OT Equator** abutment in the first surgery without removing it anymore: One Abutment One Time Concept. From this point on all the clinical procedures will be developed over the abutment's head offering a simplified and repeatable protocol.

VERSATILITY: The **OT Bridge** technique can be adapted to all types of traditional and cad-cam working techniques. The digital work-flow is supported by the designed scan-bodies files available in all the different dental libraries.

BIOLOGICAL BARRIER: **OT Equator** allows a higher precision in the implant-abutment connection as the work protocol is made entirely on a single component. Once screwed onto the implant, the **OT Equator** abutment avoids damages to the biological barrier, allowing the implant to be kept isolated from the gum. During healing, the soft tissues adhere to the titanium of the component which is no longer removed, thus creating a biological defense barrier. This barrier, maintained over time, will prevent any infiltration of bacteria, minimizing the risk of peri-implantitis related clinical complications.

TIMES: Waiting times after surgical insertion of the implants are significantly reduced compared to "classic" protocols. The patient waits between 2 and 3 hours for the application of the temporary structure with a total duration of the session between 5 and 6 hours.





OT EQUATOR TITANIUM ABUTMENT – Ref. 030

- Gingival heights available: 0,5 mm 1,0 mm 2,0 mm 3,0 mm 4,0 mm 5,0 mm 6,0 mm 7,0 mm
- Tin coating surface treatment
- Over 1500° Vickers titanium hardness
- Manufactured to be perfectly compatible with ALL the different implant systems, platforms, diameters and connections

OT EQUATOR ABUTMENTS SCREWING DEVICE - Ref. 774CH

- Squared head connection 1,25 mm thread
- Adaptable to be used with the torque ratchet





























FULL OT EQUATOR ABUTMENT KIT – Ref. 42

- Assorted kit with 42 OT Equator titanium abutments
- Multiple gingival heights available
- Each **OT Equator** abutment is personalized to be compatible with all the different implant systems

GINGIVAL HEIGHT MEASURER – Ref. 008MBG

- The tool allows to determine the proper gingival height of each **OT Equator** abutment to be used in the restoration.



	EXTRA GRADE TITANIUM ABUTMENT 3,5 mm diameter - Ref. MTSEG 4,0 mm diameter - Ref. MT40SEG 5,0 mm diameter - Ref. MT50SEG		SCAN ABUTMENT OT Equator scan body + surub Ref. 145SAE		MEDICAL STEEL CILINDER Ref. T20A
	EXTRA GRADE CASTABLE ABUTMENT 4,0 mm diameter - Ref. CMEG40C		OT EQUATOR PLUG Ref. VEA		MEDICAL STEEL RETENTIVE CILINDER Ref. T20AI
	THREADED HOLES TITANIUM ABUTMENT FOR PROVISIONAL RESIN AND WIRE STRUCTURES Height 1,8 mm - Ref. CMTFP Height 3,0 mm - Ref. CM830FP		LABORATORY ANALOGUES 4,0 mm diameter - Ref. 144AE 5,0 mm diameter - Ref. AI502		T-BAR ADAPTOR Ref. TAPLUS
	NORMO TITANIUM ABUTMENT (EXTRA ORAL WELDING) 4,0 mm diameter - Ref. MT40GL		INCLINED HOLE LOCKING DEVICE FOR RATCHER TORQUE 1,25 mm square - Ref. 760CSC		SPECIAL CURVED WIRE (no elastic functionality) 1,0 mm diameter Ref. HR800
	LONG OT EQUATOR TITANIUM TRANSFER + SCREW Height 11,5 mm - Ref. 144TLE		INCLINED SCREWDRIVER ADAPTATOR Ref. 760ACC		WITE SEEGER WITH HANDLE Standard retention Ref. SM6
	SINGLE IMPRESSION COPY FOR INDIVIDUAL TRAY Ref. 144 MTE		INTERCHANGEABLE HOLDER Ref. 774HC		PINK SEEGER WITH HANDLE Soft Retention Ref. SRM6
	OT EQUATOR MINI TRANSFER Height 3,7 mm - Ref. TPM2		OT EQUATOR SCREWDRIVER/STEM Ready for holder, for torque controller contra angle (square 1.25mm) Ref. 760CE		CASTABLE CONNECTORS Ref. 022RGO
	SCREW AND HEALING RING Ref. 159VAG		OT EQUATOR MANUAL TORQUE WRENCH Torque range: 15-35 Ncm Max. allowed 50Ncm Ref. 760CRD-US		SEEGER HOLES CLEANING BUR Ref. FSS
	OT EQUATOR PLUG AND HEALING RING Ref. 159EAG		UNIVERSAL HANDLE Ref. 124ICP		COMPOSITE CEMENT Ref. OC
			MEDICAL STEEL JOINT Ref. G80A		

OT EQUATOR SYSTEM

OT BRIDGE FIXED RESTORATIONS

OT EQUATOR OVERDENTURE RESTORATIONS

BAR SOLUTIONS AND SMART APPLICATIONS



The proper planning of a clinical case with the **OT Bridge** technique requires a correct analysis of the divergence among the implants. Another important step is related to the analysis of the size of the montage.

Phase 1

Gypsum model with laboratory analogs in place and test of the tooth set-up.



Phase 2

Analysis of the angles of the screws and choice of straight or inclined abutment.



Phase 3

Construction of the structure using any type of material.



Phase 4

Functional test of the structure in place.

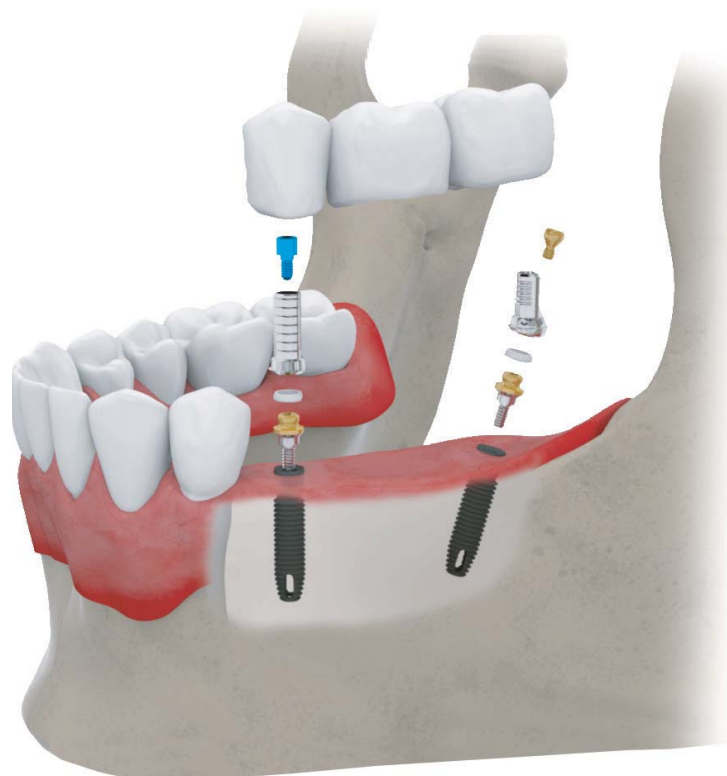


Technical Video
OT BRIDGE TECHNIQUE
Fixed Prosthesis Restorations





The components are screwed over the **OT Equator** analogue in order to verify the future direction of the hole.
The titanium extra grade abutment will host the Seeger ring oriented with the opening in the direction of the undercut section.



EXTRA GRADE TITANIUM ABUTMENT

Extra grade titanium abutment to be cemented



(9,5 mm height)

Titanium Screw



White Seeger ring



Pink Seeger ring



15° INCLINED EXTRA GRADE TITANIUM ABUTMENT

Inclined extra grade titanium abutment to be cemented.



Inclined titanium abutment screw



White Seeger ring

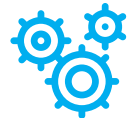


Pink Seeger ring



OT EQUATOR TITANIUM ABUTMENT

The **OT Equator** gingival heights available: 0,5 mm 1,0 mm 2,0 mm 3,0 mm 4,0 mm 5,0 mm 6,0 mm 7,0 mm



It's recommended to position the titanium abutment with the flat surface oriented allowing to correspond to the extra grade section. This will allow to overcome the different undercuts among the implants.



The proper planning of a clinical case with the **OT Bridge** technique requires a correct analysis of the divergence among the implants.
Another important step is related to the analysis of the size of the montage.

Phase 1

*Extra Grade titanium abutments positioned with the flat part in the direction of the angulation of the implants.
This allows for immediate and simple insertion of the structure.*



Phase 2

The insertion of the prosthesis starts from the most angled implant. The other systems below allow you to complete the operation easily.



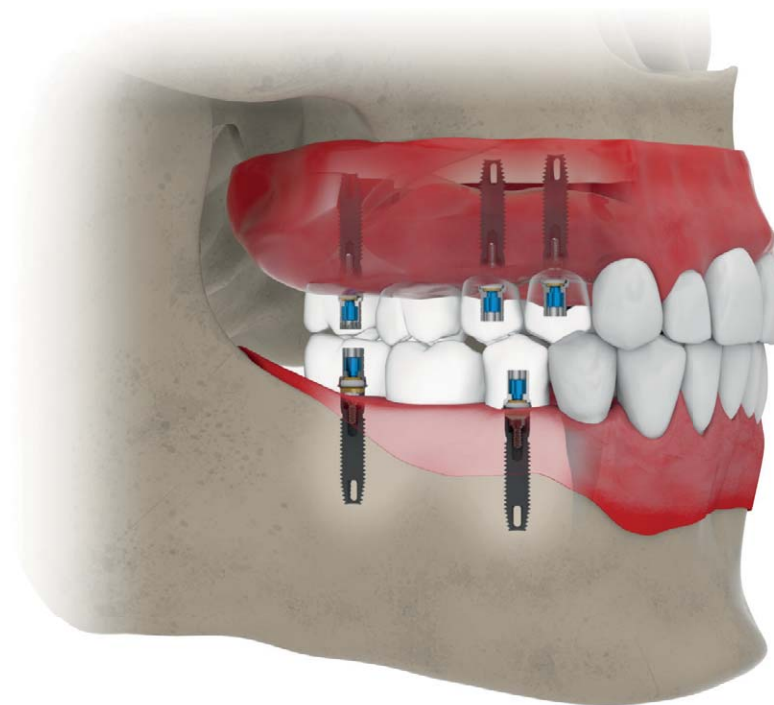
Phase 3

The Seeger rings use the undercut as a retentive interlocking to obtain the "snap" function during insertion.



Phase 4

The milled area of the titanium abutment corresponds to the flare of the extra grade component.

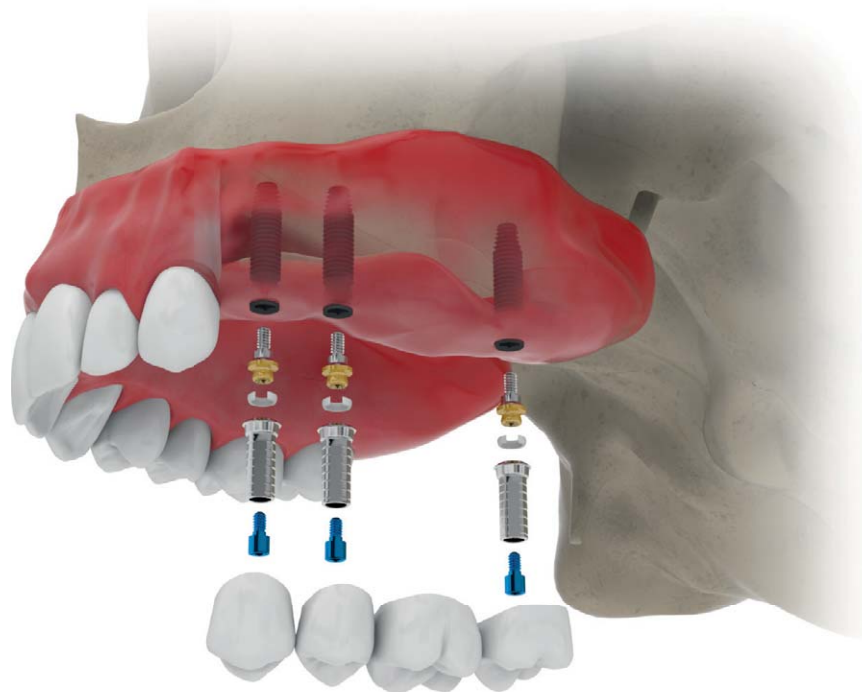


Technical Video
OT BRIDGE TECHNIQUE
Fixed Prosthesis Restorations





The components are screwed over the **OT Equator** analogues in order to verify the future direction of the holes. The titanium extra grade abutment will host the Seeger ring oriented with the opening in the direction of the undercut section.



It's recommended to position the titanium abutment with the flat surface oriented allowing to correspond to the extra grade section. This will allow to overcome the different undercuts among the implants.

EXTRA GRADE TITANIUM ABUTMENT

The components are screwed over the **OT Equator** analogue in order to verify the future direction of the hole. The titanium extra grade abutment will host the **Seeger** ring oriented with the opening in the direction of the undercut section.



SEEGER RINGS

The **Seeger** rings (available in two different retentions) allow the insertion of the denture. Counting on the snap-on functionality. The prosthesis will be retained already in position both in lower and upper jaw.



OT EQUATOR TITANIUM ABUTMENT

OT Equator titanium abutment personalized to be compatible (in multiple gingival heights) with the implant system used in the clinical case.





The All On 4 «full-arch» restoration, performed with the **OT Bridge** Technique, allows to correct any level of miss angulation without using any angled prosthetic component. The clinical practice will be entirely performed in the same «biologic zone» offering a considerable advantage to the clinician.

Phase 1

The "full-arch" prosthesis is screwed onto the implants over the **OT Equator** abutments in a simple and immediate way with maximum protection of the biological aspects.



Phase 2

The approach to surgery is not modified but is simpler and more immediate having different gingival heights available for the **OT Equator** abutment.



Phase 3

The reduced diameter of the **OT Bridge** abutments allow to manage perfectly the dimensions in the mouth while the large diameters of multi-unit components might lead to problems facing aesthetic situations both in the posterior and lower areas.



Phase 4

The process of taking the impression and making the prosthesis can be managed as a provisional both with manual technique and with digital work-flow.

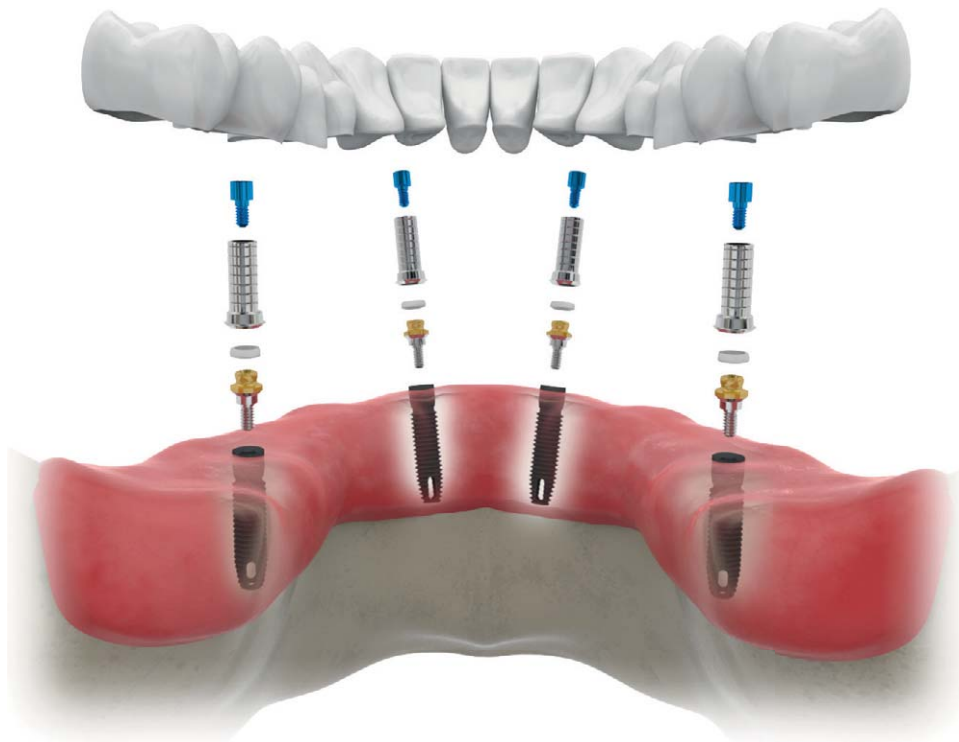


Technical Video
OT BRIDGE TECHNIQUE
Fixed Prosthesis Restorations





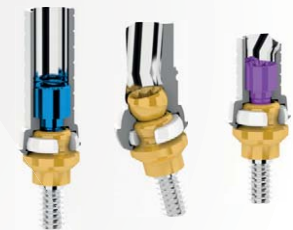
The versatility of this technique allows you to work on different implants (even unknown ones) and to switch from fixed to removable restorations and vice versa. All this without ever changing the **Ot Equator** abutment, this counting on obvious advantages in terms of time, maximum respect for biology and cost-effectiveness for the patient.



It's recommended to position the titanium abutment with the flat surface oriented allowing to correspond to the extra grade section. This will allow to overcome the different undercuts among the implants.

EXTRA GRADE TITANIUM ABUTMENT

Extra-grade screws and abutments in assembly.



SEEGER RING

OT Equator abutments and Seeger rings components in assembly.



OT EQUATOR TITANIUM ABUTMENT

OT Equator abutments (ready to be screwed) customized for the implant system used by the dentist in the clinical case.





The **All-On-4 restoration project** starts from a correct analysis of the assembly size. This treatment with the **OT Bridge** technique involves the use of titanium abutments with screws, bonding sleeves and titanium abutments angled at 15 degrees.

Phase 1

The castable structure must be as passive as possible. This functionality is achieved thanks to the castable connectors that can be adapted, shaped and cut.



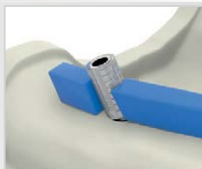
Phase 2

Try to leave as little space as possible between the connectors and the implant posts.



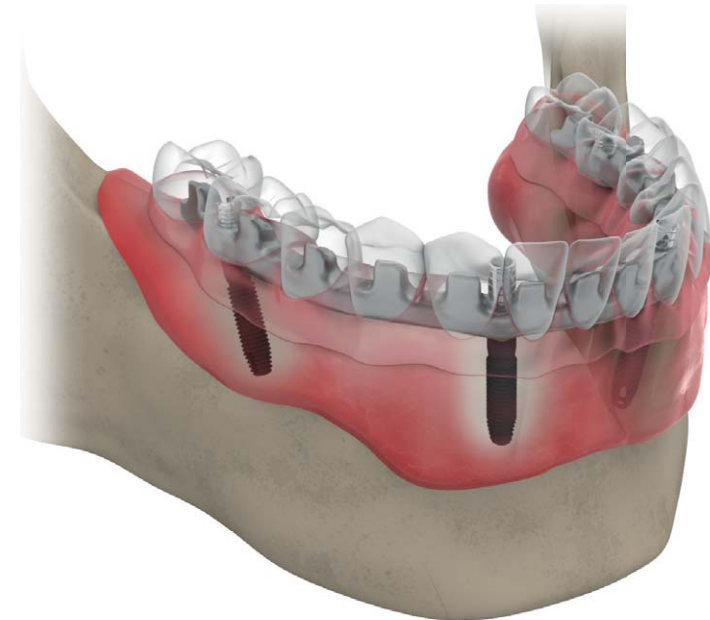
Phase 3

Position the extra-grade abutment on the **OT Equator** component making sure that the beveled part always goes towards the undercut.



Phase 4

Work completed, polished and assembled ready to be covered with the aesthetic material.

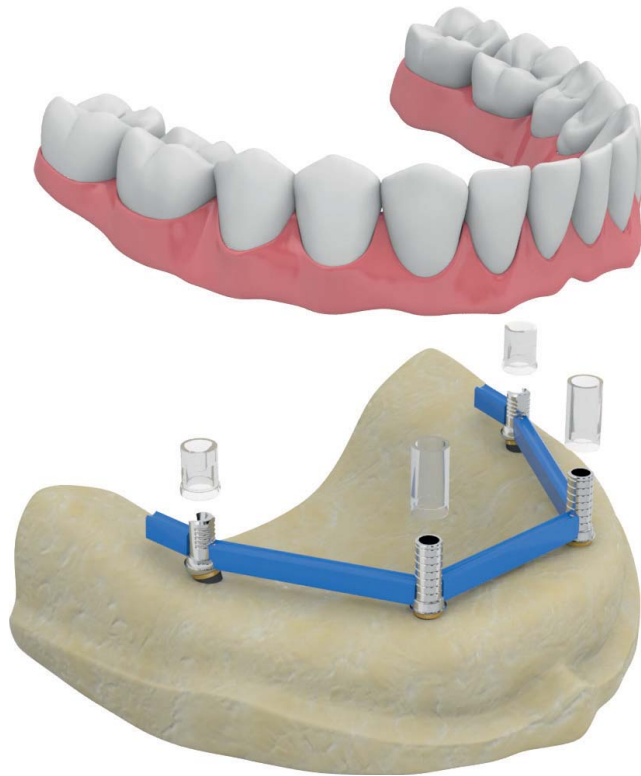


Technical Video
OT BRIDGE TECHNIQUE
Fixed Prosthesis Restorations





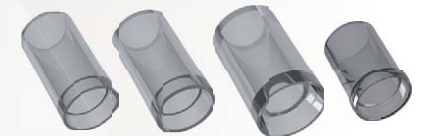
OT Bridge protocol can be performed both facing severe implant divergent situations and as a real alternative to the MUA components which are showing limits in terms of biomechanical stress in particular with zygomatic implants. Another advantage of the protocol is to reduce the necessary number of prosthetic screws in the practice.



The "blind" abutment is held only by the **Seeger** ring thanks to the snap-on functionality. The percentage of abutments without fixation screws should be **limited to 25%** in the case of an **All-on-4** treatment (1 in 4) or to 2 in 6 in the case of an **All-on-6** treatment.

CASTABLE ABUTMENTS

Castable sleeves for bonding.



CASTABLE OT BAR CONNECTORS

Adaptable castable connectors.



TITANIUM ABUTMENTS AND COMPONENTS

*Extra-grade titanium abutment with 15 degrees inclined hole and inserted **Seeger** ring.*



OT Bridge

The digital work-flow of the **OT Bridge** Protocol allows the professional to work with ALL the different software and design the digital structure of any fixed restoration. The simplicity of use is also improved by an unique Scan Body component for all the **OT Equator** abutments.

exocad

3shape

dental wings

egsolutions

3DIEMME

blenderfordental



Phase 1

Transfer of information at the prosthetic-implant level with the designed Scan Abutment.



Phase 2

Replacement with the **Rhein83** component and transfer of information.



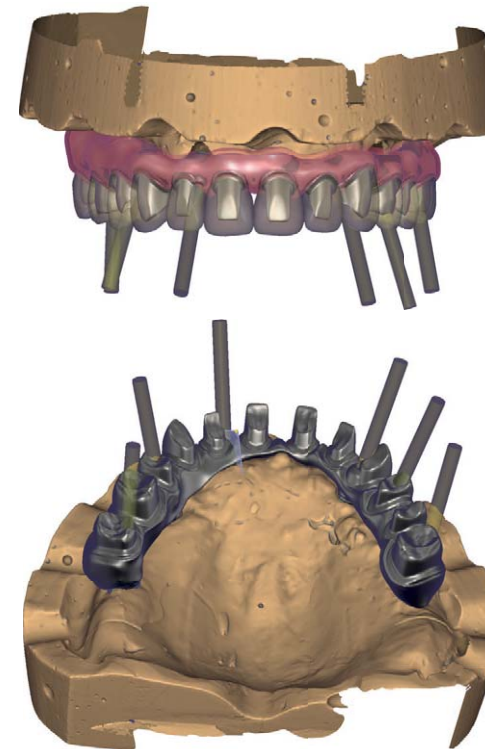
Phase 3

The software proceeds by associating the correct platform chosen from the different options available.



Phase 4

Digital drawing and finalization of the prosthesis.



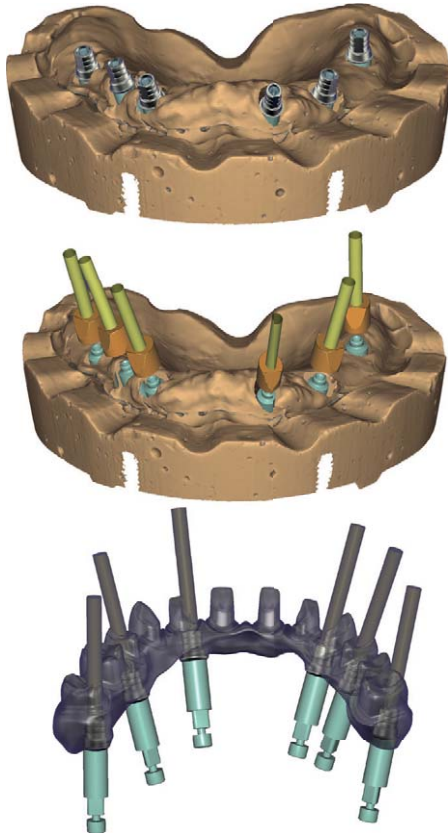
Technical Video
OT BRIDGE TECHNIQUE
Fixed Prosthesis Restorations

RHEIN83





Dental laboratory and dental clinic professionals will be able to manage all fixed and removable prosthesis project counting on a single component. This procedure will simplify the results as not having to resort to different Scan Abutments with different implant libraries.



Being able to count on just one Scan Abutment greatly simplifies the work protocol. Using a single component within a single library it is possible to manage each project with all the different types of dental implants.

OT EQUATOR SCAN ABUTMENT

Scan Abutment in titanium for position detection in digital planning.



OT EQUATOR ANALOG

OT Equator analog positioned in the digital model.



OT EQUATOR TITANIUM ABUTMENT

*Structure that will be screwed on the **Ot Equator** abutments (screwed on the dental implants choose from the dentist).*





This telescopic bar is designed for the management of prosthetic projects with immediate loading. By taking advantage of the innovative design, it is possible to realize any type of structure without creating any tension among the dental implants using the bonding technique that does not require casting or welding (with considerable time savings in the phases of work in the clinic and laboratory).

Phase 1

The telescopic bar can be adapted to the morphology of the mouth by using the appropriate accessories.



Phase 2

The telescopic bar is cut and adapted in accordance to the distance between the titanium elements.



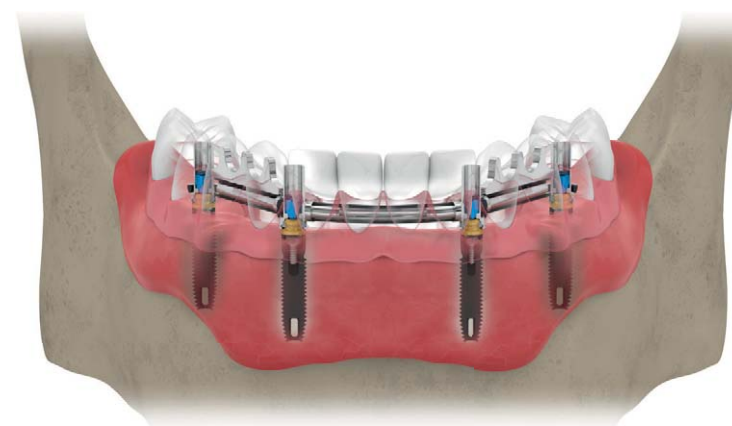
Phase 3

Once the adaptation process is complete, all the components are assembled. The black rings have the function of temporarily blocking the structure during the cementation or welding phases.



Phase 4

Bar assembled and ready to be covered with the aesthetic material.



Technical Video
OT BRIDGE TECHNIQUE
Fixed Prosthesis Restorations





The system can also be used with retentive cylinders for optimal tooth support
The components are available in both medical steel and grade 5 titanium.
In the titanium version it is possible to weld the joints to the implant turrets.



Counting on the versatility of the **OT Bridge** protocol it is possible to manage the immediate load by working on any system, connection and diameter of dental implants.

OT BRIDGE CYLINDERS

Standard cylinders and retentive cylinders in medical steel.



OT BRIDGE JOINTS AND ADAPTERS

Steel joints and T-Bar adapters



OT EQUATOR TITANIUM ABUTMENT

Ot Equator titanium abutments customized for the implant system chosen in the clinical case.





In order to recognize the unknown implant, it is ideal to be able to count on a mechanical component: a "failed" implant, a healing cap, a laboratory analog an old abutment, a screw (even broken) or an MUA.

Phase 1

If any mechanized components are available, the dentist must take the impression of the internal connection and the thread of his implant.



Phase 2

With a plastic pin or a root canal instrument reach all the way to the connection by using a very fluid impression material (light). The material is injected into the implant with a syringe.



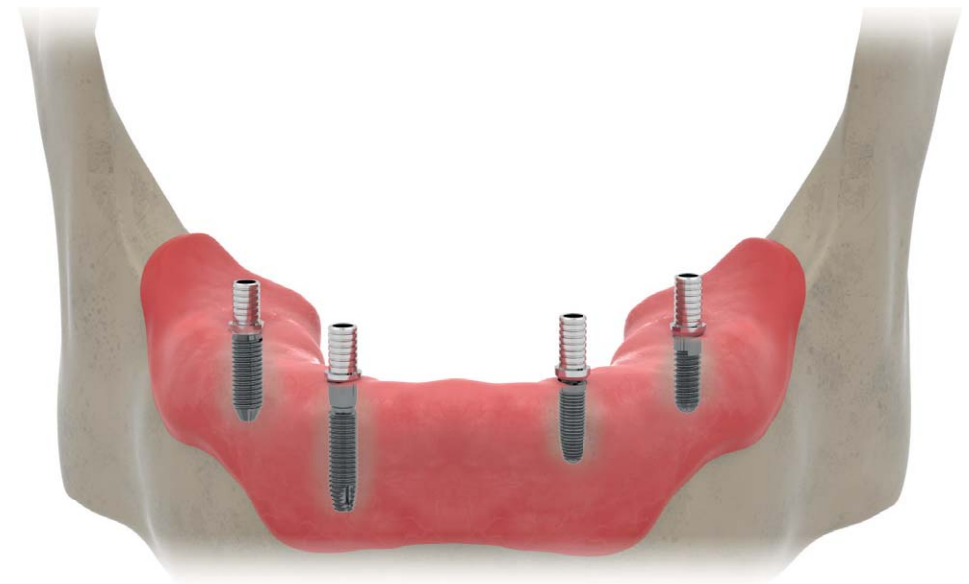
Phase 3

When the hardening is complete the impression is unscrewed (be careful not to tearing it). Send the impression to the closest **Rhein83** office and a new compatible abutment will be ready shortly.



Phase 4

Rhein83 can adapt different types of components to be screwed into the «unknown» implants reaching a perfect platform match with the fixture.

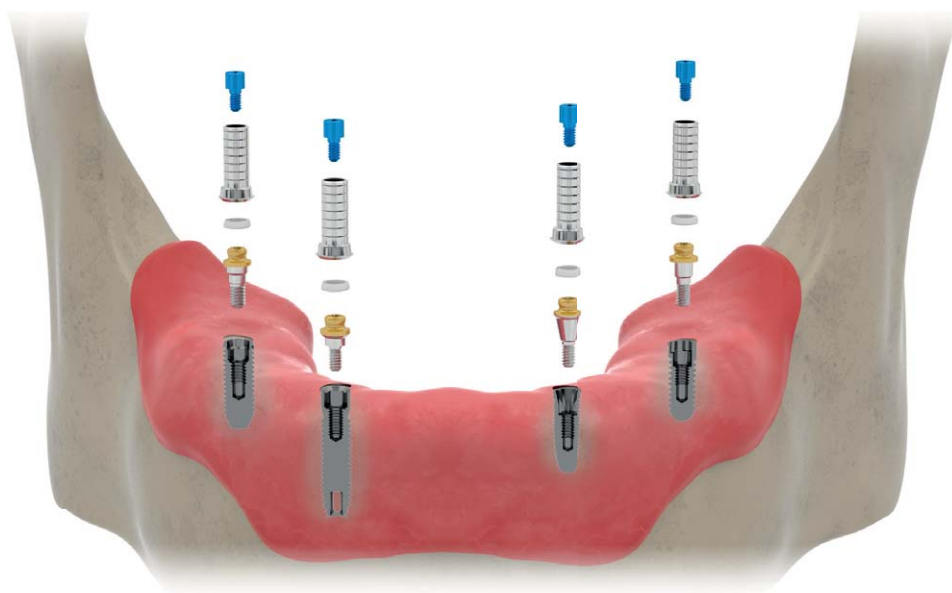


Technical Video
OT BRIDGE TECHNIQUE
Effective problem solving solutions in implantology





Operating protocol for the management of "unknown" implants:
 this complication today concerns many clinics that find patients who have no information on the type of implants they carry.
Rhein83 has created a simple and safe clinical protocol that allows to recognize **the exact connection of each fixture**.



LIGHT MATERIAL IMPRESSION

Plastic pin or root canal instrument.



COMPATIBLE COMPONENT FOR THE NEW ABUTMENT

New titanium abutment.



NEW COMPATIBLE OPTIONS

Rhein83 compatible solutions:

Sphero Attachments,
OT Equator Abutments,
OT Bridge Prosthetics.



Rhein83 can manufacture all the different components present in the catalog to be screwed on "unknown" implants. Spherical attachments (**Sphero line**) and low profile **OT Equator** attachment are available for removable prosthesis treatments. The **OT Bridge** protocol, for fixed restorations, is perfectly suited to this technique on bridges and full arches. Rotating titanium abutments with 1.25 mm engagement and screw are also available for single elements.



OT EQUATOR TITANIUM ABUTMENT - Ref. 030

- Multiple gingival heights available (0,5 mm up to 7,0 mm)
- TiN coating surface (over 1500 Vickers degrees hardness)
- Available to be compatible with ALL the implant platforms, diameters and connections.

OT EQUATOR SCREW DRIVER DEVICE - Ref. 774CHE

- 1,25 mm dimension
- White plastic holder included (allowing to keep the abutment in position)
- Usable with manual wrench and torque device

OT EQUATOR ELASTIC CAPS INSERTION AND REMOVAL DEVICE - Ref. 491EC

- Allowing to insert each OT Equator Cap inside the metal housings (side A)
- Elastic caps will be removed after one year of time in the patient's mouth using the same device (side B)

OT EQUATOR RATCHET TORQUE CONTROL DEVICE - Ref. 760CRD-US








- To be used with ALL the OT Equator abutments
- 15/35 Ncm strength
- Maximal 50 Ncm torque
- 25Ncm indicated strength



Reference 141CAE	Reference 330SBE	Reference 140CEG	Reference 140CER	Reference 140CET	Reference 140CEV
Stainless steel OT Equator Housing	Smart Box OT Equator Housing (with black positioning cap inserted)	Yellow elastic cap «extra soft» (600 grams retention)	Pink elastic cap «soft» (1200 grams retention)	Clear elastic cap «standard» (1800 grams retention)	Violet elastic cap «strong» (2700 grams retention)
					

OT EQUATOR SYSTEM

OT BRIDGE FIXED RESTORATIONS

Reference 140 CEN	Reference 335CSB	Reference 044CAIN	Reference 144AE	Reference 74AC01	Reference 760Ce	Reference 144MTE
Black laboratory cap	Black smart box housing positioning cap	Ot Equator impression coping (normal size) with interchangeable cap for pick up impression	OT Equator laboratory analog	OT Equator parallelometer key	Square driver connector torque (controller contra angle 1,25 mm square)	Individual tray impression coping
						

OT EQUATOR OVERVENTURE RESTORATIONS

BAR SOLUTIONS AND SMART APPLICATIONS

OT EQUATOR

OT Equator titanium abutment used as a retentive solution offers numerous advantages in the clinical application of implant-retained overdentures. The system makes it possible to significantly improve the patient's life at an aesthetic and functional level.

Phase 1

The screwdriver allows to screw the selected **OT Equator** abutment onto the implant's head with perfect mechanical coupling.



Phase 2

The protective discs are positioned on the attachments to "protect" them during the clinical phases. The metal housings are inserted with the elastic caps already inside.



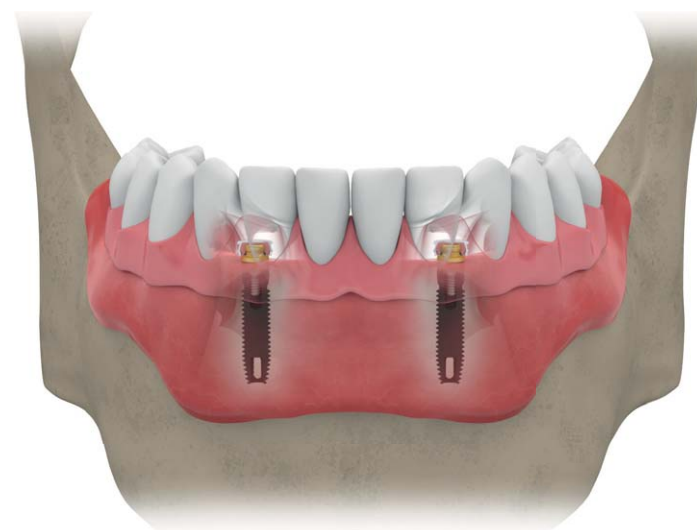
Phase 3

Check the position of the prosthesis before bonding the metal housings. On the prosthesis, fill the implant sites with a self-curing resin and insert into the patient's mouth.



Phase 4

The prosthesis is removed for a final check of the position of the attachments. The protective discs are removed and any excess resin eliminated before the prosthesis is completed and ready for insertion.



Technical Video
OT EQUATOR TECHNIQUE
Implant Retained Overdenture Attachment

RHEIN83





The "narrow" profile combines reduced dimensions in terms of height and diameter with optimal stability. By occupying the minimum space inside the prosthesis, the biological tissues will be respected and protected at all stages of the treatment.



The elastic functionality of this system, unlike other "rigid" ones, allows to express high retentive capacities without causing any stress to the attachment screwed onto the implant. More comfort for the patient and greater durability for the prosthesis.

STANDARD METAL HOUSING

This component is used to correct from 0° up to 30° of divergence between the dental implants. It's unique design allows to occupy a minimal vertical and diametric dimension.



ELASTIC CAPS (different retentions available)

*Each elastic cap offers a **1 years duration** time in the patients mouth (if the attachments are placed in a parallel plan of insertion).*



OT EQUATOR TITANIUM ABUTMENT

*The **OT Equator** abutment is screwed into the implant with a perfect fit to the platform. Chose the proper gingival height according to the clinical case counting on multiple options: 0,5 mm 1,0 mm 2,0 mm 3,0 mm 4,0 mm 5,0 mm 6,0 mm 7,0 mm*



OT EQUATOR

In clinical cases of overdenture treatments in which the divergence between the implants exceeds 30°, the **Smart Box** housing allows to manage the problem effectively. Counting on the internal "rotating" mechanism it is possible to correct the miss alignment beyond 50 ° guaranteeing a passive insertion of the prosthesis.

Phase 1

The **OT Equator** attachments are screwed onto the implants. The pink protective discs and the **Smart Box** housings are positioned with the black cap inside.



Phase 2

The spaces corresponding to the housing are filled with resin to optimize the subsequent insertion of the prosthesis. As soon as the resin has hardened, the pink protective discs are removed.



Phase 3

Excess resin is removed from the prosthesis. The black cap is removed with the special extractor tool.



Phase 4

Completed prosthesis with inserted caps. The insertion of the caps is optimized by the special insertion tool.



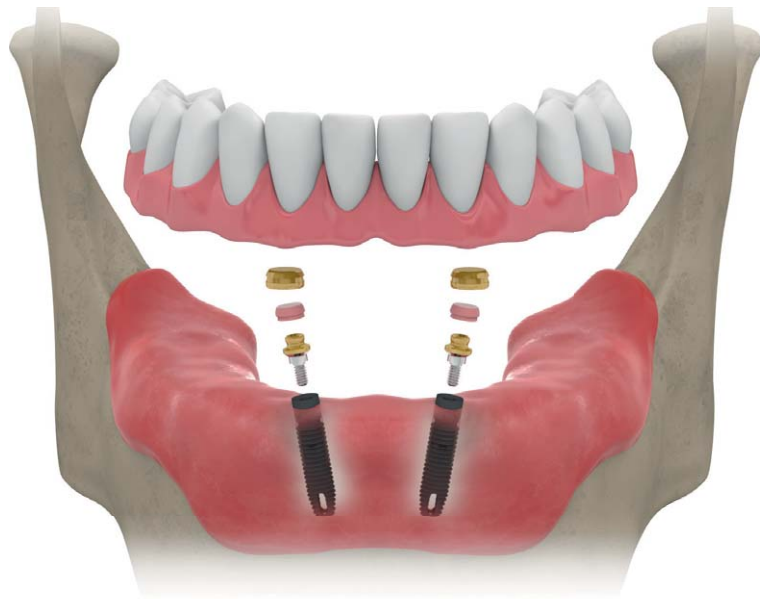
Technical Video
OT EQUATOR
Smart Box

RHEIN83





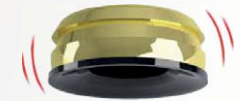
The advantage offered by the Smart Box system is allowing the dentist and the technician to work with the exact same **Ot Equator** abutment. The same goes for the elastic components and the tools that will never be replaced using either the standard or the **Smart Box housing**.



The elastic functionality of this system, unlike other "rigid" ones, allows to express high retentive capacities without causing any stress to the attachment screwed onto the implant. More comfort for the patient and greater durability for the prosthesis.

SMART METAL HOUSING (30° to 50° divergence correction)

The **Smart Box** housing counts on an innovative design with reduced dimensions in order to optimize the aesthetic result in the treatments.



ELASTIC CAP (different retentions available)

The elastic cap, positioned inside the housing, guarantees the absorption of masticatory forces, managing every type of stress caused by the masticatory forces. The duration in the patient's mouth is prolonged over time but replacement is suggested within 1 year.



OT EQUATOR ABUTMENT (multiple gingival heights available)

The **OT Equator** abutment is screwed onto the implant with a perfect fit to the platform. The dentist can work with all the different brands and connections of implants. Chose the proper gingival height according to the clinical case counting on multiple options: 0,5 mm 1,0 mm 2,0 mm 3,0 mm 4,0 mm 5,0 mm 6,0 mm 7,0 mm



New SEEGER



OT EQUATOR

OT EQUATOR SYSTEM

OT BRIDGE FIXED RESTORATIONS

OT EQUATOR OVERDENTURE RESTORATIONS

BAR SOLUTIONS AND SMART APPLICATIONS

	TITANIUM SCREW FOR SELF EXTRACTING SEEGER Ref. 158VAE
	SELF EXTRACTING WITH SEEGER (FOR BAR LOCKING) Ref. 158SAE
	CASTABLE CYLINDER HEIGHT 2,5 MM (FOR SEEGER COMPONENT) Ref. 158CCE
	HIGH CASTABLE CYLINDER HEIGHT 3,5 MM (FOR SEEGER COMPONENT) Ref. 158CCA
	OT EQUATOR MILLED ATTACHMENTS SQUARE SCREW DRIVER Ref. 774CHE
	CASTABLE OT EQUATOR ATTACHMENT Ref. 151SS

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DENTAL

	OT EQUATOR THREADED ATTACHMENT (2,0 MM THREAD) Ref. 039SFE2
	OT EQUATOR THREADED ATTACHMENT (1,6 MM THREAD) Ref. 339SFE
	OT EQUATOR STAINLESS STEEL HOUSING Ref. 141CAE
	OT EQUATOR YELLOW CAP (EXTRA SOFT RETENTION 600GR) Ref. 140CEG
	OT EQUATOR PINK CAP (SOFT RETENTION 1200 GR) Ref. 140CER
	OT EQUATOR CLEAR CAP (STANDARD RETENTION 1800 GR) Ref. 140 CET
	OT EQUATOR VIOLET CAP (STRONG RETENTION 2700 GR) Ref. 339SSE
	OT EQUATOR TITANIUM SPACER Ref. 239GSF
	TITANIUM THREAD (1,6 MM THREAD) Ref. 159VAG
	OT EQUATOR SEEGER Ref. 159VEA



	CASTABLE BARS FOR OT BAR MULTIUSE Ref. 0220BB
	CASTABLE BOX OT BAR MULTIUSE Ref. 025CPB
	CLIPS A POSITIONER Ref. 023CPA
	CLIPS B POSITIONER Ref. 024CPB
	YELLOW OT BAR CLIPS (1,8 KG MEDIUM RETENTION) Ref. 207CRG
	PINK OT BAR CLIPS (1,2 KG SOFT RETENTION) Ref. 026CRR
	RED OT BAR CLIPS (0,6 KG EXTRA SOFT RETENTION) Ref. 027CRS
	CASTABLE CONNECTORS Ref. 022RGO
	INSERTION-EXTRACTION TOOL FOR OT BAR CLIPS Ref. 429IOMB
	OT BAR MUTLIUSE PARALLELOMETER KEY Ref. 028OCP



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	OT EQUATOR 7,0 MM TITANIUM PIVOT Ref. 336PTE7
	OT EQUATOR 9,0 MM TITANIUM PIVOT Ref. 333PEK9
	OT EQUATOR 10 MM TITANIUM PIVOT Ref. 333PEK10
	OT EQUATOR STAINLESS STEEL HOUSING Ref. 141CAE
	OT EQUATOR YELLOW CAP (EXTRA SOFT RETENTION 600GR) Ref. 140CEG
	OT EQUATOR PINK CAP (SOFT RETENTION 1200 GR) Ref. 140CER
	OT EQUATOR CLEAR CAP (STANDARD RETENTION 1800 GR) Ref. 140 CET
	OT EQUATOR VIOLET CAP (STRONG RETENTION 2700 GR) Ref. 140CEV
	MOOSER BUR (LONG) Ref. A03MOB
	MOOSER BUR (STANDARD) Ref. A01MOG

OT EQUATOR SYSTEM

OT BRIDGE FIXED RESTORATIONS

OT EQUATOR OVERDENTURE RESTORATIONS

BAR SOLUTIONS AND SMART APPLICATIONS

New SEEGER

The **Seeger** system is designed to provide the best passive stability in all types of bar-structures. This solution, working as bar retained overdenture prosthesis, can be adapted to ALL types, connections, platforms and diameters of dental implants.

Phase 1

OT Equator abutments screwed into the implants over which the union bar with the **Seeger** system will be screwed.



Phase 2

Metal union-connective bar. The self-extracting **Seeger** rings, in Peek material, are inserted inside the cast cylindrical housings.



Phase 3

The titanium cover screws are screwed in all the way with the indicated torque of 15 Ncm.



Phase 4

Future functional checks will be simple and immediate. This is possible counting on the internal cylindrical shape of the **Seeger** ring (Peek material) which allows self-extraction together with the titanium locking screw.



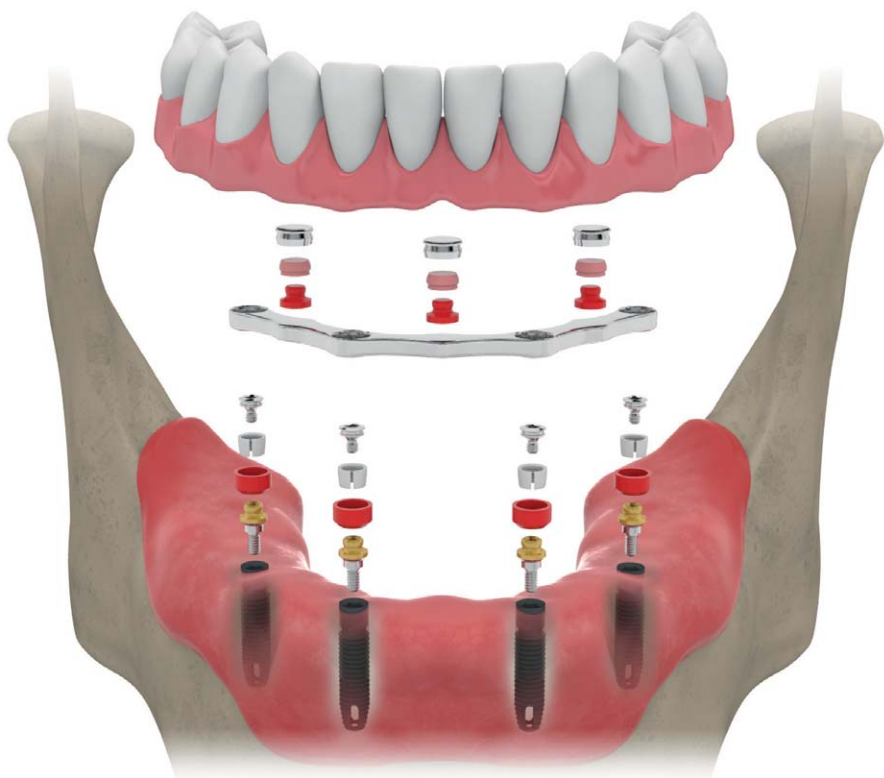
Technical Video
NEW SEEGER

RHEIN83



New SEEGER

The white **Seeger** ring is designed to correct any possible imperfection created during the transfer working phases of the attachment. The self-extracting mechanism of the ring allows also to compensate all different levels of divergence among the dental implants.



Thanks to the conical design and the Peek material, the **Seeger** ring passively connects the implants and avoids problems related to unscrewing. It can be easily extracted together with the titanium cover screw using the appropriate tools.

OT EQUATOR CASTABLE ATTACHMENT

OT Equator castable attachment, elastic cap and metal housing.



SEEGER COMPONENTS

Self-extracting white Seeger ring. Red castable cylinder (where to place the Seeger) and titanium locking screw.



OT EQUATOR ABUTMENT

OT Equator abutments are personalized for any implant system and connection with multiple gingival heights available: 0,5 mm 1,0 mm 2,0 mm 3,0 mm 4,0 mm 5,0 mm 6,0 mm 7,0 mm



OT EQUATOR

The prosthetic design with digital work-flow involves the use of the STL files of the **OT Equator** attachment. The professional can easily download the files by working with any software by searching for the **OT Equator** system in the "attachments" section of each library (Dental Wings, Exocad, 3Shape, Panthera Dental and many others!)



Phase 1

The position of the attachments on the bar is determined respecting the characteristics of the prosthetic project and the position of the implants.



Phase 2

The bar will be designed with maximum flexibility allowing it to work on any dental implant system and platform.



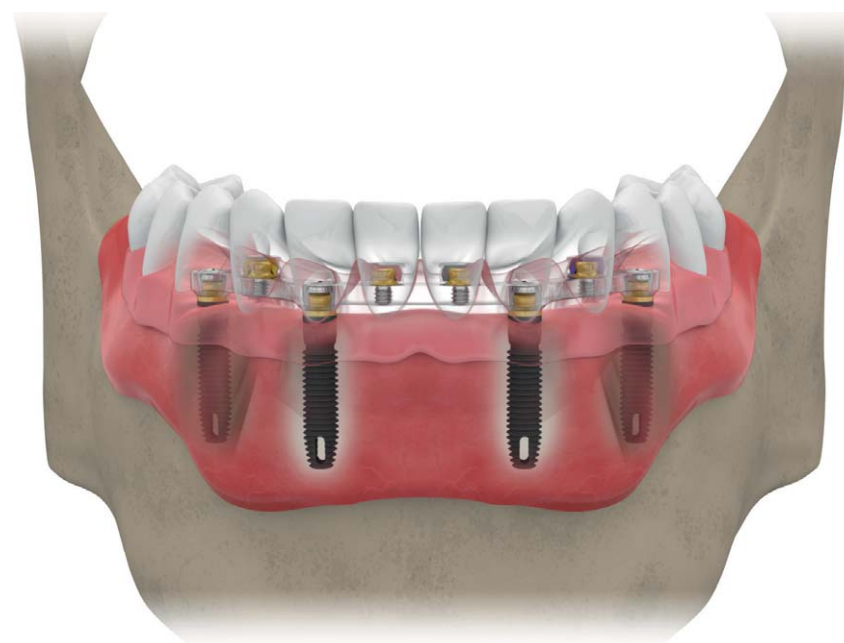
Phase 3

The attachments are screwed onto the bar using the designed screwing tool.



Phase 4

The elastic caps are positioned inside the prosthesis with the designed insertion tool.

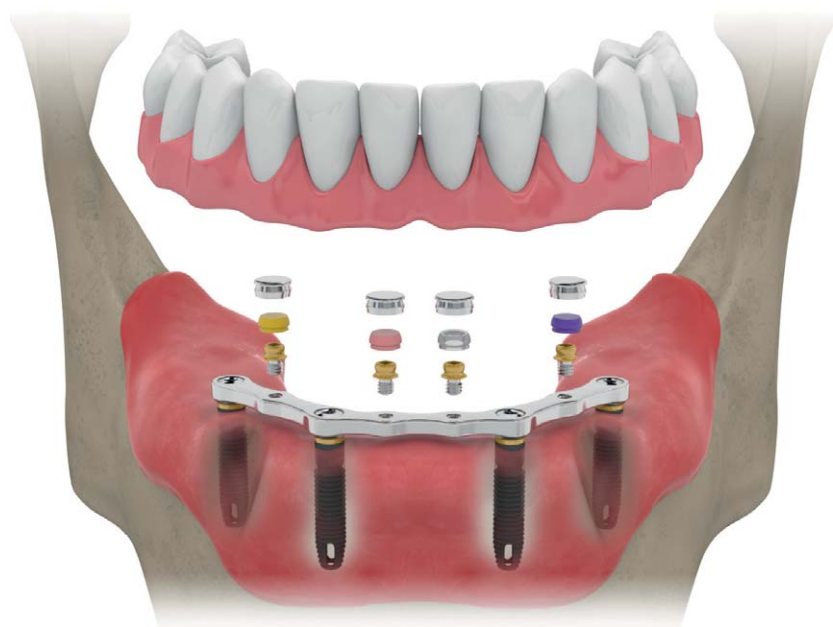


Technical Video
FULLY DIGITAL
Fedi, Ortensi, Tallarico



OT EQUATOR

With its 2.1 mm vertical height and 4.4 mm width, the new **OT Equator** milled attachment offers the lowest profile and the smallest footprint compared to any overdenture solution on the market for unthreaded Cad/Cam bars and for prefabricated burn-out bars made in the laboratory. The dental professional can find the stl files of the system in all the most important dental libraries.



The **OT Equator** attachment kit with sleeve to be bonded includes the attachment with a threaded pitch of 1.6mm and a Titanium sleeve of 2.5mm height and external diameter of 2.2mm, to be bonded. For those laboratories that intend to use the castable technique, the kit includes one spacer per sheath. There are 4 types of retentive caps with different degrees of retention available, to be used exclusively with the appropriate housing facilitating maintenance by the dental lab. In addition to the instruments, black caps are available for exclusive use in the laboratory.

OT EQUATOR HOUSING

Titanium or stainless steel material (same desing of the housing).



OT EQUATOR ELASTIC CAPS

4 different retention forces available to offer a complete personalization of the dentures functionality.



OT EQUATOR ATTACHMENT

Milled titanium material with 2,0 mm thread.





A great technical advantage concerns the cast reinforcement structure of the removable resin prosthesis which will be modeled directly on the **MASTER** model without duplicating the model being veneered. The niche of this fusion which holds the retentive **CLIP** is calculated with a tolerance at the entrance which allows a lasting functionality of the clip. By decreasing the working phases, the laboratory will be able to reduce the time by adapting the prosthetic project to any platform, connection and implant diameter.

Phase 1

Application of the bar, side A, using the special key. The modeling is completed with wax or resin.



Phase 2

Eliminate the undercuts with wax and insert the positioner in the appropriate site.



Phase 3

Complete the modeling also with the use of wax, for the extensions use the castable connectors. Apply sprue pins and proceed with casting.



Phase 4

Finished prosthesis with incorporated cast reinforcement. Retentive clips inserted.

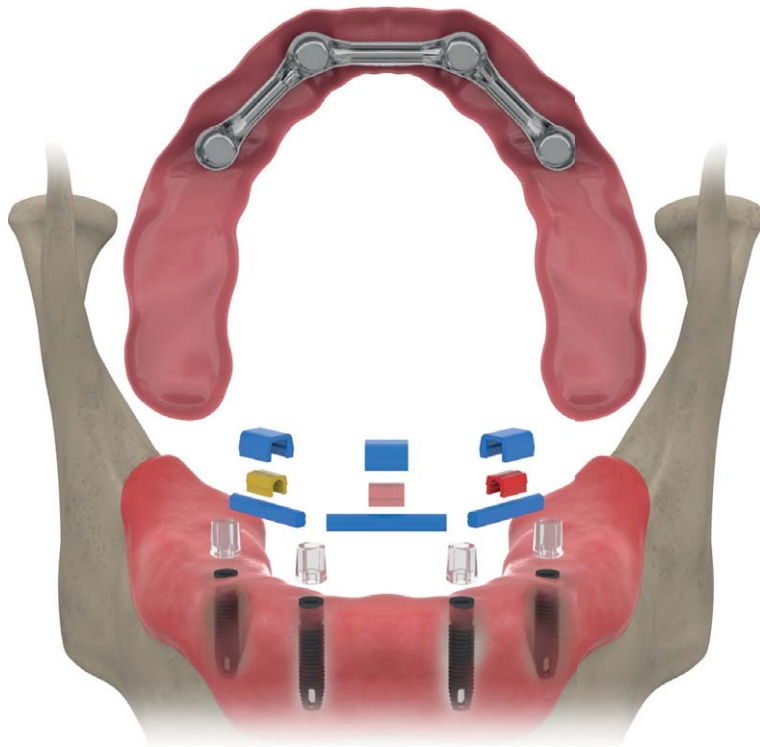


Technical Video
OT BAR TECHNIQUE
Multiuse





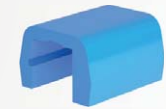
The **OT Bar** system can be applied on two different sides, A and B, perfectly adapting to any prosthetic project. The flat part, facing up, offers a "resilient" functionality while the spherical part, facing up, offers a "rigid" functionality. In the second case there will be a failure in the distal area only. Using the "flat" side will offer more resilience in the incisive area in addition to the distal yielding.



Bar side A "rigid": connection between two elements where it is necessary to tilt movement at anterior and posterior level or between several elements where it is necessary to rest the prosthesis on an atrophic gingival site.
 Bar side B "resilient": ideal for cases with more than two elements where the prosthesis rests on a hypertrophic gingival site.

OT BAR HOUSING

Castable box, to be used on both side A and side B of the bar.



OT BAR CLIPS

OT Bar elastic clips:
Red: extra soft retention
Pink: soft retention
Yellow: medium retention



OT BAR GINGIVAL CONNECTORS

Side A of the castable bar
Gingival connector
Side B of the castable bar.





OT Equator titanium pivots are developed as a solution for direct “in roots” overdenture prosthesis. This solution allows to reduce the time on the chair side with minimal invasive treatment for the patient. When the pivots are placed on a parallel plan the insertion of the denture is simple, immediate and free of any trauma. This technique can be used as a permanent or temporary solution allowing to preserve the integrity of the roots and facilitating a future implant treatment.

Phase 1

Prepare the root by the mucosal level and adjust the radicular cavity by using the Mooser bur of the proper length.



Phase 2

Fill-up the radicular cavities with proper composite cements. Insert then the **OT Equator** titanium pivots in position.



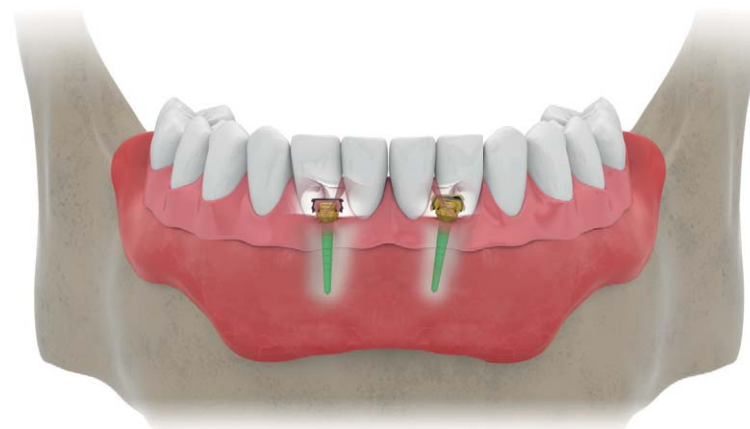
Phase 3

Once the impression has been taken place the protective discs over the attachments. Feel with self curing resin and then place the denture in the patient's mouth.



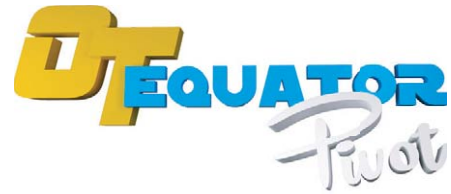
Phase 4

When the resin will be hard enough remove the protective discs and clean up any excess of resin to complete the procedure.

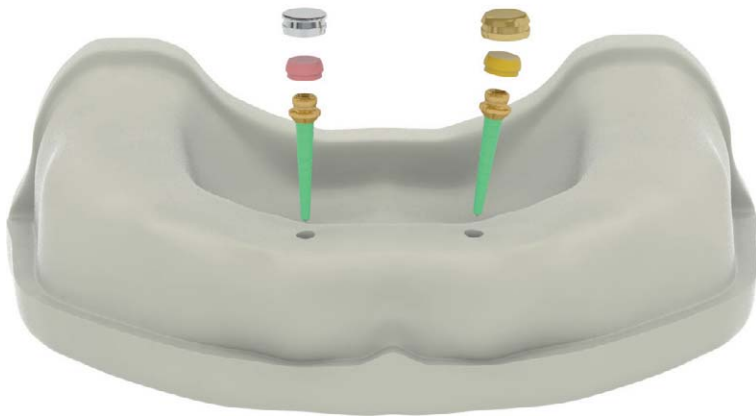


Technical Video
DIRECT ROOTS OVERDENTURE RESTORATIONS
Spherical and Ot Equator titanium Pivots





The professional can count on 4 different elastic caps, each one, according to the colour, is offering a precise duration in the patient's mouth (one year) with no need of replacement. Two different metal housings are available (to be used with the same pivots and elastic caps). Regular housing with divergence in the roots from 0 up to 30 degrees. Smart Box housing with divergences from 30 up to 50 degrees.



During the clinical phases the use of protective plastic discs (transparent) is indicated to protect the attachment from excess resin. The specific Mooser burs, in different lengths, are designed for optimal processing of the root canal that will accommodate the post. The black caps, used with both metal housings, are used only for the laboratory steps.

REGULAR AND SMART BOX METAL HOUSING

Both type of housings are to be used with the **OT Equator** elastic caps. When the divergence between the roots is from 0° up to 30° apply the regular housing. With higher divergences, over 30° up to 50°, use the Smart Box housing.



OT EQUATOR ELASTIC CAPS

Each cap offers a 1 year duration time in the patient's mouth (counting on a parallel plan of insertion).



OT EQUATOR TITANIUM PIVOTS

Each pivot counts on the «narrow» design of the attachment with reduced height and diameter. 3 different lengths are available (10,00 mm – 9,0 mm – 7,0 mm) in order to adapt to the features of the patient's roots.





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THE DUAL PROSTHETIC SOLUTION

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