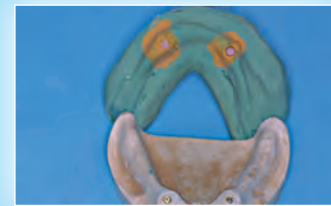
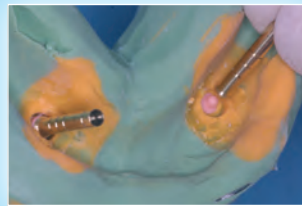
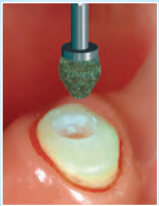


OVERDENTURE PROSTHESES

Direct System

ROOT PREPARATION AND IMPRESSION



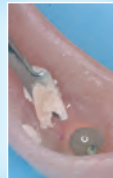
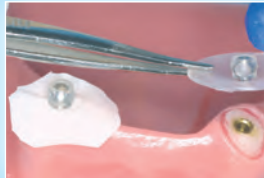
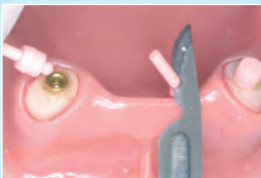
Use the diamond sizing bur to prepare the root for the attachment. Using the hand tool, insert the plastic pivot and apply cement.

Pivots cemented into the roots. Insert the male transfer coping into the pivot and take the impression. For best results, use a stiff bodied impression material.

The laboratory will place the analog and pour the stone model.

The stone model with the OT REVERSE 3 analog in position.

CHAIRSIDE PROCEDURES



If you are using the plastic retentive male, remove the stem. Caution: If the prosthesis is inserted incorrectly, it could bend and it will not fit into the female housing.

Place the attachment with self-curing resin. It is important to always use the protective disk around the perimeter of the attachment.

When OT Box Large is used, enlarge the space using a carbide bur to reduce interference with the male.

Fill the spaces with self-curing resin. Insert the prosthesis into the patient's mouth and have them bite down until the resin has cured.

Remove the prostheses and trim the excess resin.

FABRICATION OF FRAME FOR DIRECT ROOTS OR IMPLANTS



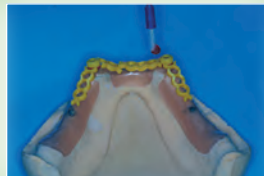
OT BOX CLASSIC
Glue the two OT Box sections together.

OT BOX CLASSIC
Separate the two housings and trim any excess material. Use only the part that is needed.

OT BOX SPECIAL
Separate the two housings and use only the part that is needed.

OT BOX LARGE
Separate the two housings and use only the part that is needed.

OT REVERSE 3
Stone model with analogs, denture setup and silicon guide.



Insert positioners in the analogs. Apply wax on the gingival crest. Make holes in the wax in contact with the stone. Be sure to use stone separator.

Position the sectioned OT Box housing of choice. Complete the reinforcement by using the castable connectors.

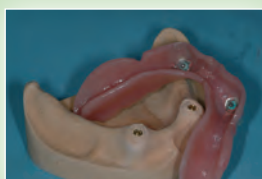
Join all of the components with self-curing resin. With the silicon mask in place, insert a wax pin for each tooth for additional support.

Remove the OT Box frame from model. Fill in any voids with wax.

Sandblasted Cast Reinforcement



White or pink opaque can be used to block out the metal frame.



The finished prosthesis. Attachments are inserted into the cast housings.

The finished prosthesis on the stone model.



RECONSTRUCTIVE SPHERES - OT EQUATOR

Titanium + TiN coating

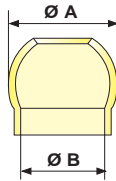


MULTIUSE
TITANIUM +
TiN COATING
more than 1600 Vickers

Available for any
implant system on the
market!

CONCAVE SPHERE

3 Sizes available:
Ø A Ø B
2,5 mm 1,9 mm
2,2 mm 1,55 mm
1,8 mm 1,4 mm



OT EQUATOR

Size:
Ø A Ø B
2,5 mm 2,1 mm

- A - Sphere support
- B - Sphere holder
- C - Strip holder
- D - Spatula for applying cement inside of the sphere.



For existing cases with worn spherical attachments which no longer provide adequate retention, the **DR8 UNDERSIZED CAP** can be used in the early stages of wear of the male component. This elastic cap offers an inner dimension of 1.7 mm and 2.2 mm which is smaller than Rhein83 normal and micro size caps and can be used with standard Rhein83 stainless steel housings.

When ball attachments show excessive wear, the **CONCAVE RECONSTRUCTIVE SPHERES** are recommended as the best long term restorative option. The **CONCAVE RECONSTRUCTIVE SPHERES** restore the worn male to its original size of 1.8 mm, 2.2 mm or 2.5 mm diameter. **CONCAVE RECONSTRUCTIVE SPHERES** are manufactured with a Titanium Nitride coating and are rated over 1600 Vickers hard.

The chairside procedure for using the reconstructive spheres is fast, easy and provides an economical alternative to replacing the old restoration.



Aqua caps are shown

DR8 Undersized Caps are available in 3 levels of retention for normal and 2 levels of retention for the micro size.

CLINIC

Dental attachments, like most other mechanisms, are subject to wear out. Rhein83 produces spheres for restoring worn ball attachments which restore and stabilize the prosthesis in a single appointment. Reconstructive spheres are bonded over the worn ball restoring the attachment to its original size.

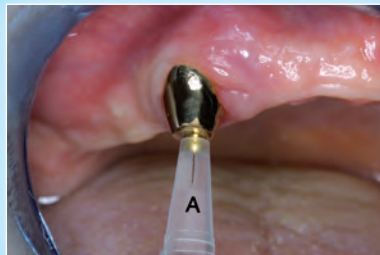
CONCAVE RECONSTRUCTIVE SPHERE RESTORING A WORN OUT SPHERE



Insert the concave sphere into side A of the plastic tool. Fit over the worn out sphere in the mouth.



If the concave sphere does not fit passively, use a cylindrical bur (diamond or carbide) to slightly reduce the diameter. Check the fit again and repeat as needed.



Check the position of the concave sphere on the worn out sphere and finish by cleaning the two parts.



Additional surface can be removed by using side C of the tool. Insert a diamond strip into the notches, place the tool over the sphere and turn the manually.



Place a small amount of two-part self curing "metal to metal" resin inside the sphere.



Place the concave sphere over the worn sphere and wait for the resin to cure.



Once the resin has cured, remove any excess material.



The completed repair. The cap can be repositioned if necessary.

RECONSTRUCTIVE SPHERES

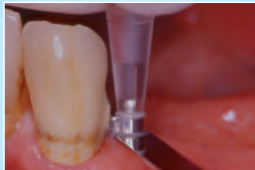
Titanium + TiN coating

Rhein83 offers two types of reconstructive spheres; A solid sphere and a concave sphere. Both types are titanium nitrate coated with a Vickers hardness rated over 1600. The Concave Reconstructive Spheres are available in 1.8 mm, 2.2 mm and 2.5 mm ball diameter. The Solid Reconstructive Spheres are only available with a 1.8 mm ball diameter. The Concave Sphere is used for restoring worn ball attachments and the Solid Sphere is used for restoring ERA® and CEKA® type attachments.

SOLID RECONSTRUCTIVE SPHERE RESTORING A WORN OUT RING ATTACHMENT



The worn-out female ring attachment.



Apply a small amount of two-part self-curing "metal to metal" resin on the bottom of the sphere. Insert the sphere into the attachment using the tool. Wait for the resin to cure.



The female attachment was converted into a male OT Cap Micro directly in the patient's mouth.

SOLID RECONSTRUCTIVE SPHERE RESTORING A WORN OUT OVERDENTURE BAR



Create a hole in the wall of the bar using a 1.6 mm ball drill.



Apply a two part composite to the shank of the sphere. Using the tool, insert the sphere into the hole. Wait for the composite to cure.



The sphere firmly cemented in place. The OT Strategy Cap can now be used in the prosthesis resulting in stability and retention.

SOLID RECONSTRUCTIVE SPHERE RECOVERY OF TITANIUM ABUTMENTS



A case with unknown titanium abutments. Worn out openings are present on top of the fixtures.



Solid Reconstructive Spheres are placed into the openings. A two-part self-curing "metal to metal" resin is applied.



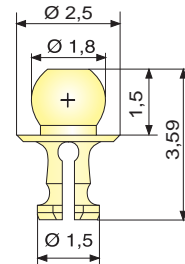
Retentive caps are positioned into the existing denture. The denture is now stable and secure.

Solid RECONSTRUCTIVE Sphere

MULTIUSE
SOLID
"RECONSTRUCTIVE"
TITANIUM +
TIN COATING
rated over 1600 Vickers



TO REBUILD ANY
"RING" TYPE
ATTACHMENT
SUCH AS: ERA® AND
CEKA®



SOLID SPHERE
Micro Ø 1.8 mm



TOOL
to hold the
sphere



OT CEM is a self and photo curing cement. It is designed for permanent metal to metal bonding in the use of attachments in prosthetic implant solutions. Recommended for the following products:



- OT CAP TECNICO
- CONCAVE SPHERE
- SOLID SPHERE
- COPING COVER
- THREADED SPHERICAL ATTACHMENTS WITH THREADED SLEEVES



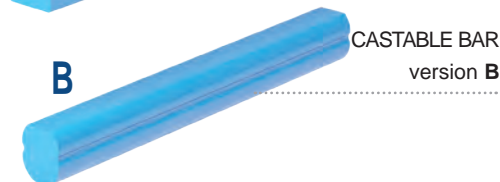
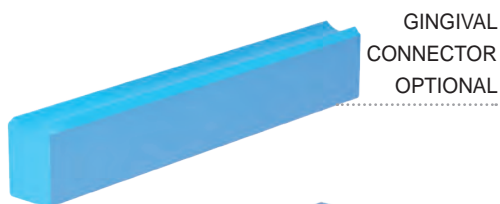
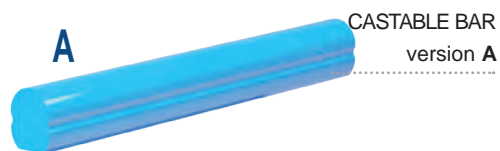
The **SOLID RECONSTRUCTIVE SPHERES** can be bonded to the inside of hollow attachments or those with a female ring such as ERA® and CEKA®

Reconstructive Spheres can be used to repair various attachments available on the market. These attachments can be found in many types of prosthesis including overdentures, implants, roots and frameworks. If worn out or broken, they cannot be repaired easily.

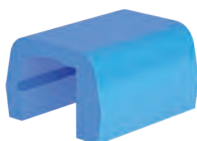
The **SOLID RECONSTRUCTIVE SPHERES** offer a fast and easy cost effective alternative, transforming a female ring attachment into a male Micro **OT CAP** attachment. This repair can be completed chairside in a single appointment.

BAR AND CAST OVERSTRUCTURE on the master model without duplication

OT Multiuse BAR + CONNECTOR



CONNECTOR
Universal castable bar for joining the CASTABLE BOX housings



PARALLELOMETER MANDREL

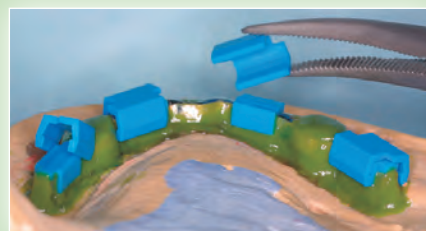


The OT BAR MULTIUSE is designed with a 4 point retentive system. This unique system provides superior retention and can be utilized for both rigid and resilient functionality. With its innovative two-sided design (Side A is rounded and Side B side is flat), depending on the indication, either side can be used. If a resilient solution is required the bar is positioned with the flat side facing up or if a rigid solution is required then the bar is positioned with the round side facing up. OT BAR MULTIUSE can also be used as a connecting bar between canines in the anterior region.

OT BAR MULTIUSE and the cast housing are fabricated directly on the master model saving time by eliminating the need for duplication.

CLINIC

LABORATORY



Castable Bar Side A

Castable Box

Positioning CLIP A

Yellow Clip
Medium Retention

Pink Clip
Soft Retention

Red Clip
Extra Soft Retention



SIDE A

The rigid bar is used as a "connection" between two stable teeth where a "back and forth" motion is required. The bar can also be used in scenarios involving multiple abutments where the prosthesis is supported by a thin layer of soft tissue.

Castable Bar Side B

Castable box

Positioning CLIP B

Yellow Clip
Medium Retention

Pink Clip
Soft Retention

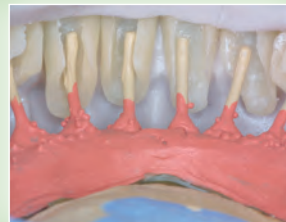
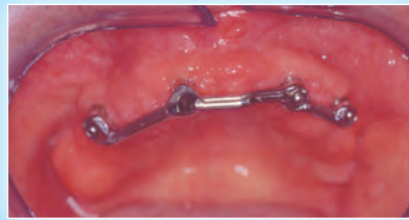
Red Clip
Extra Soft Retention



SIDE B

The resilient bar is most often used in scenarios involving multiple abutments where the prosthesis is supported by a "normal" layer of soft tissue.

CASTABLE BAR IN TWO VERSIONS RESILIENT - RIGID



FABRICATION OF THE SUPERSTRUCTURE ON THE MASTER MODEL WITHOUT DUPLICATION SIDE A - RIGID



Mount the bar using Side A of the mandrel. Using resin or wax, complete the model.



The finished casting. Be careful not to wear out the retentive surfaces when polishing.



Block out any undercuts using wax and place Positioning Clips A on the bar.



To isolate, apply a small piece of tape (ex: teflon, Scotch) on the Positioning Clips A and on the cast bar. Insert the castable box housings.



To prevent resin from adhering to the bar, place a small piece of adhesive tape (ex: teflon, Scotch tape) over the bar. Use self-curing resin to connect the castable boxes.



Complete the model using wax and add castable connectors for extra reinforcement of acrylic. Sprue the model and cast.



The completed casting with retentive clips snapped in place.



The finished denture with cast reinforcement and retentive clips in place.

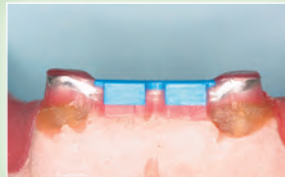
SIDE B - RESILIENT



Mount the bar using Side B of the mandrel. Using resin or wax, complete the model.



The completed casting. Use caution when polishing the surface. Be sure not to wear out the retentive undercuts.



Use wax to remove all undercuts. Apply a thin layer of wax on the top of the bar to create a cushion. Insert Positioning Clips B.



To isolate, apply a small piece of tape (ex: teflon, Scotch) on the Positioning Clips B and on the cast bar. Insert the castable box housings.



To prevent resin from adhering to the bar, place a small piece of adhesive tape (ex: teflon, Scotch tape) over the bar. Use self-curing resin to connect the castable boxes.



Complete the model using wax and add castable connectors for extra reinforcement of acrylic. Sprue the model and cast.

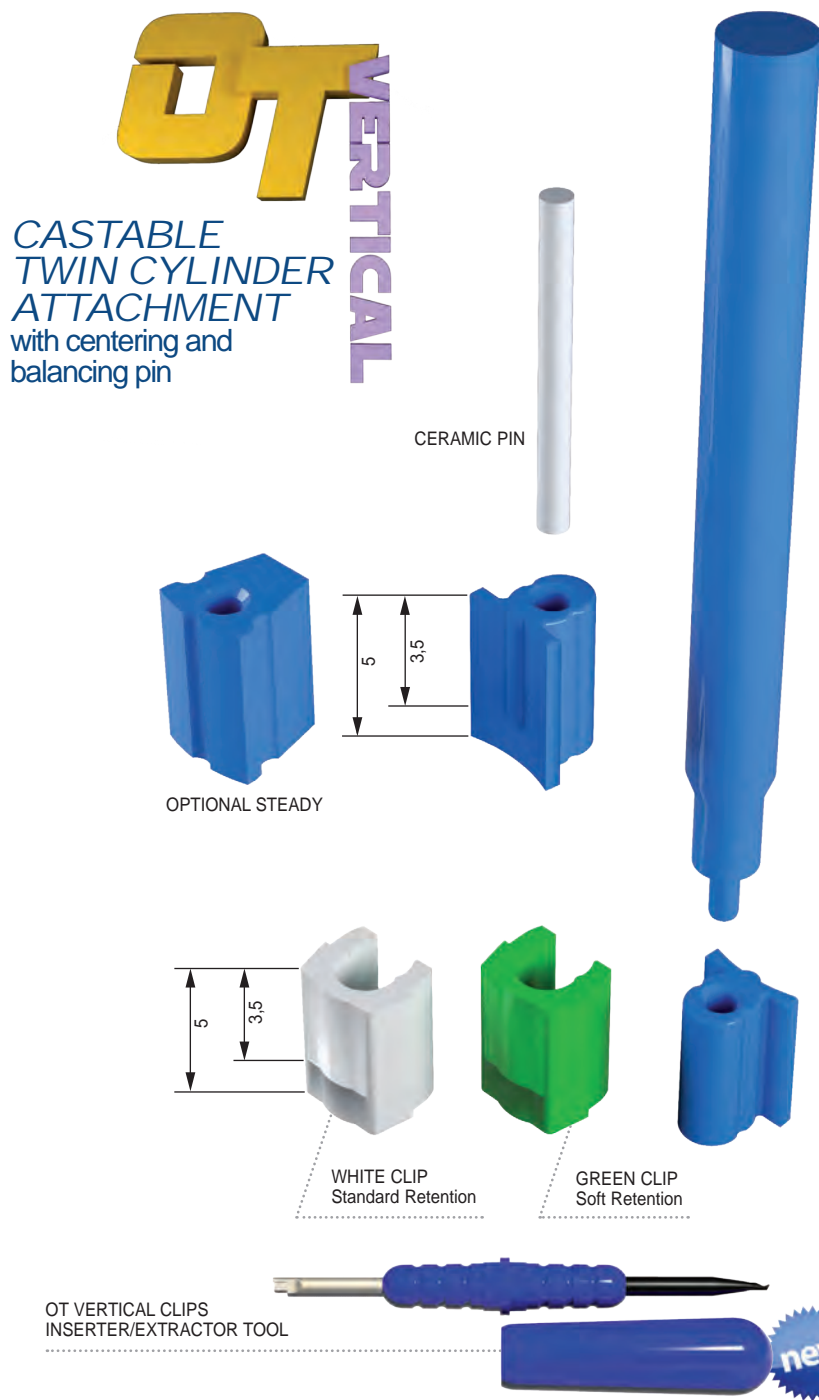


The completed casting with retentive clips snapped in place.



The finished denture with cast reinforcement and retentive clips in place.

EXTRACORONAL CASTABLE ATTACHMENTS



The cast metal guide pin is necessary to center, connect and balance the prosthesis during the final insertion. When milling or "cross arch" stabilization are not possible, the guide pin along with the **NEW STEADY** will provide lateral stability to the prosthesis. This ensures a longer life for the retentive clips. The vertical height of the attachment can be adjusted by reducing both male and female parts from the original length of 5 mm down to 3.5 mm according to the pre-marked notches. Reducing the vertical height creates no difference in functionality. Removal and replacement of clips can be easily performed by the Dentist chairside.

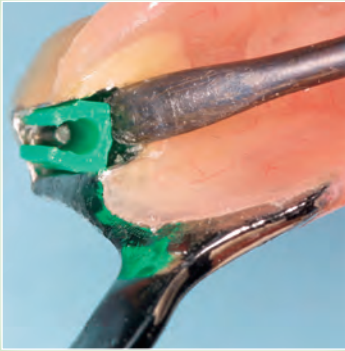
LABORATORY




ATTENTION

When shortening the OT VERTICAL attachment, it is suggested not to reduce the attachment more than 3.5mm to prevent excessive wear or failure. The limit is indicated by a notch on both male attachments and clips.

REPLACEMENT OF RETENTIVE CAPS



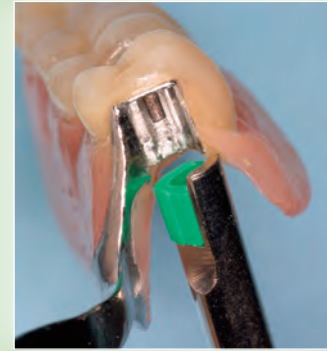
Remove the clip using a flat round instrument.



Once it has been removed, compare the height of the old clip to the height of the new clip.



If the clip needs to be reduced, use a rotary instrument to shorten according to the notch on the back.



Insert the new clip using the OT VERTICAL insertion tool.



The attachment and the clip can be mounted with its original height (5 mm) or shortened (3.5 mm) by filing the side opposite the hole.



Once the assembly and the wax model have been completed, insert the ceramic cylinder into the hole of the attachment and cast.



After the attachment has been connected with wax, insert the pin into the hole on the top of the attachment. Rotate the pin until a proper fit is obtained and it is easily removed.



Sandblast the casting. Use a round bur or appropriate acid to remove any ceramic material that may be present in the hole.



Before duplicating the model, remove the tip of the plastic pin that is located on the end of the parallelometer key mandrel from the rest of the shank.



Insert the pin into the hole of the attachment and pour the duplicating material (silicone or gelatin).



The castable plastic pin in the duplicated model. The pin can either be removed or remain in the model.



Complete the wax-up of the frame and proceed with casting.



The cast framework.



The finished framework. Insert the retention clips using the OT VERTICAL insertion tool.



The finished framework on the model. Even without milling, the cast pin provides stability to the prosthesis.



Lowering the male portion of the attachment increases the gingival load and reduces the vertical stress on the supporting teeth.

COMBINED RETENTION ATTACHMENT For Multi-Functional Prosthetics

OT UNILATERAL



RETENTIVE CAPS OT CAP Micro



RETENTIVE CAPS OT Strategy for duplication



TOOLS



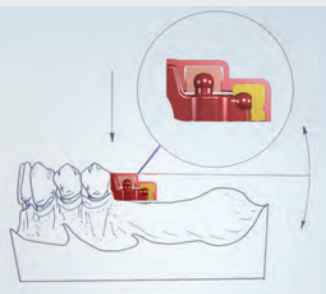
OT STRATEGY CAPS INSERTER/EXTRACTOR TOOL



The **OT UNILATERAL** castable attachment from Rhein83 is specifically intended for unilateral, bilateral or implant bar applications without additional support from milled bracing arms.

OT UNILATERAL's exclusive design features a two-in-one combination of 1.8 mm horizontal and vertical spheres utilizing **OT CAP** and **OT STRATEGY** micro size female caps. The male section of the attachment is engineered with a vertical strut which extends through the base of the attachment providing exceptional lateral stability and distal support to the prosthesis.

The Uni-Box female component is a one piece castable housing that covers the entire male section, adding superior strength to the acrylic.



LABORATORY



EXCLUSIVE FEATURE

2-IN-1 DESIGN - A COMBINATION OF HORIZONTAL AND VERTICAL MICRO SPHERES ARE USED WITH THE OT CAP AND OT STRATEGY ATTACHMENT SYSTEMS



MULTIPLE BENEFITS

BECAUSE OF IT'S UNIQUE DESIGN, OT UNILATERAL PROVIDES:

- * LATERAL STABILITY
- * NO MILLING REQUIRED
- * SUPERIOR RETENTION
- * CONTROLLED RESILIENCY
- * OVERALL FUNCTIONALITY
- * ECONOMICAL SOLUTIONS

OT UNILATERAL Superstructure Set Up Technique

UNILATERAL SADDLE: ATTACHMENT AND OVERSTRUCTURE UNIQUE PHASE SETTING UP



Positioning of the OT UNILATERAL bar using the OT CAP paralleling mandrel by starting with the analysis of the masticatory plan. Proceed by connecting the bar to the last modeled wax crown.



Place the positioning ring over the OT CAP micro sphere. Place the castable OT BOX component in position, the positioning ring will assure the proper position.



Join the Uni-Box component to the connector by using a pattern resin in order to reinforce the structure. Be careful not to have any material inside the Uni-Box component.



Remove the positioning ring by the OT CAP sphere and proceed with the sprue procedure.



Unique fusion is one of the best features of the UNILATERAL attachment.



Fused UNILATERAL and Uni-Box. Sandblast the casting by keeping attention not to "over-sandblast" the spheres. Insert the black laboratory caps and proceed by polishing the sphere.



In order to provide the optimal stability, wax-up carefully the saddle in order to embrace the ridge as much as possible.



Completed procedure: proper retentive caps (adequate degrees of elasticity) are placed inside the fused Uni-Box component

BILATERAL STRUCTURE: RESILIENT FUNCTIONALITY AND FREE MILLING PROCEDURE



Place the positioning ring over the OT CAP micro sphere. Place the castable OT BOX component in position, the positioning ring will assure the proper position.



Finished work: Ot cap and Ot Strategy caps, with the proper retention features, are inserted inside the Ot-Box component.

IMPLANT SUPPORTED BAR: DISTAL EXTENSIONS AND COMBINED FUNCTIONALITY



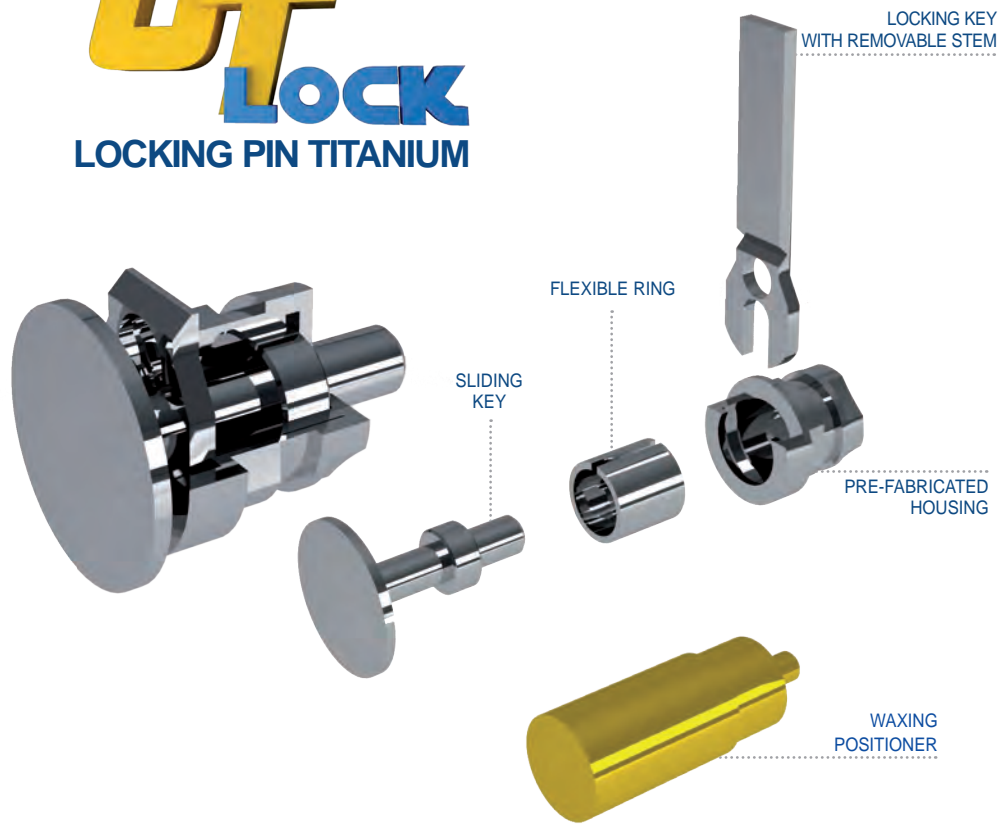
Once the components to build the bar are inserted, place the OT UNILATERAL bar by using the OT CAP mandrel and by analyzing the masticatory plan. Connect it then distally to the modeled bar.



Cast bar thanks to the combined functionality of the OT UNILATERAL. The prosthesis will count on an improved stability without any additional stress over the implants.

LOCKING PIN - TITANIUM

DT LOCK LOCKING PIN TITANIUM



CLINIC

OPTIONAL
for the patient

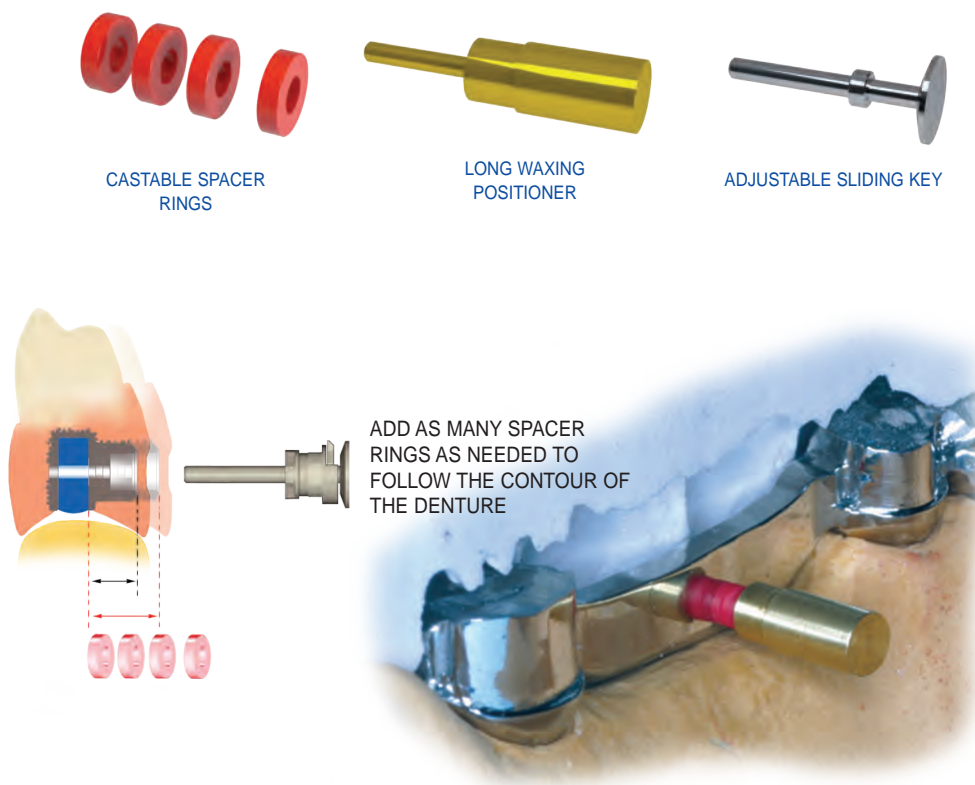
CONICAL GUIDE AND UNLOCKING TOOL

UNLOCKING KEY

CONICAL GUIDE

UNLOCK THE PROSTHESIS BY INSERTING THE UNLOCKING TOOL INTO THE CONICAL GUIDE.

ADJUSTABLE TITANIUM LOCKING PIN SPACER RING SYSTEM TO POSITION THE KEY TO THE DESIRED SHAPE



LABORATORY

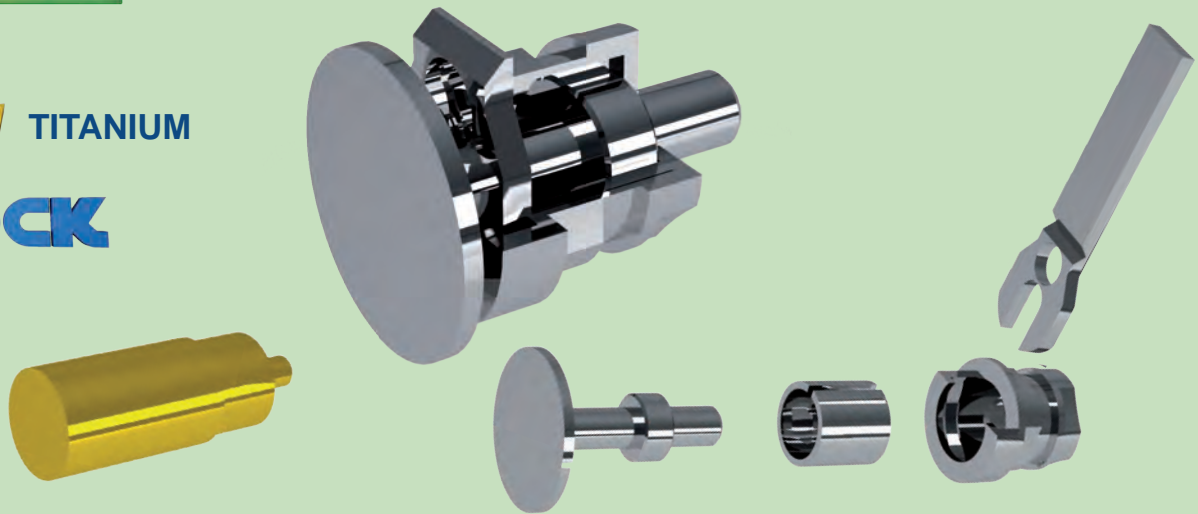
LOCKING KEY IN POSITION WITHOUT SPACER RINGS

LOCKING KEY POSITIONED USING SPACER RINGS TO FOLLOW THE CONTOUR OF THE DENTURE

LOCKING PIN - TITANIUM

LABORATORY

DT TITANIUM
LOCK



Model the bar in resin and drill a 0.8 mm hole in the most ideal position.



Insert the ceramic pin through the hole.



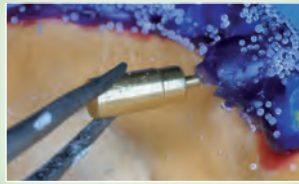
The finished and polished bar.



Insert the housing shaper into the hole and lock it in place using resin. Be sure not to go past the "STOP" when applying resin.



Using resin, complete the model of the superstructure up to the "STOP". Remove the housing shaper and cast.



Pull out the brass positioner and cast.



Insert the pre-fabricated housing and bond.



Insert the positioner again. Proceed with wax and cure the resin.



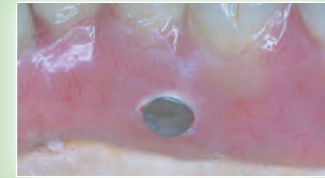
Insert the locking key into the pre-fabricated housing guide. The "key-ring" mechanism is now locked.



Bend the locking key and brake it.



Apply the self-hardener composite material to stop the locking key and insert the locking pin in the hole.



Locking Pin locked in position. Finish and polish.



Finished prosthesis. Determine whether or not to use the EXTRACTOR KEY

OVERDENTURE ATTACHMENTS - SPHERO FLEX - SPHERO BLOCK

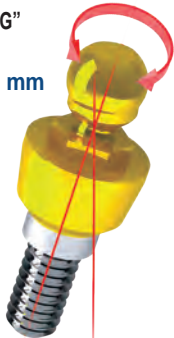
Rotating & Stationary Ball Abutments For Divergence Correction

TITANIUM + TIN COATING PROVIDES 1600 VICKERS HARDNESS

Sphero FLEX

"SELF-PARALLELING" SPHERES

2.5 mm



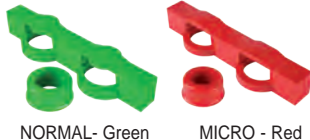
Sphero BLOCK

STATIONARY BALL 1.8 mm ABUTMENT

2.5 mm



OT Special BOX



NORMAL - Green

MICRO - Red



IMPRESSION COPING
Normal / Micro size

ANALOGS
SPHERO FLEX /
SPHERO BLOCK



PROTECTIVE DISK

UNIVERSAL KEY + HANDPIECE CONNECTOR



MANUAL TORQUE WRENCH

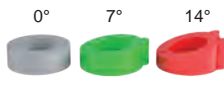
For Sphero block - flex and Ot Equator
15/35Ncm Strength - Max 50Ncm torque,
suggested 25Ncm.



OT Classic BOX



BARS
NORMAL SIZE = Green + Yellow
MICRO SIZE = Red + Yellow



DIRECTIONAL RINGS
(REQUIRED FOR LAB AND CLINICAL PROCEDURES)

STAINLESS STEEL AND TITANIUM HOUSINGS
Normal / Micro
for curing welding or bonding

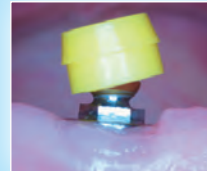
ELASTIC RETENTIVE CAPS
Normal / Micro



TITAN CAP
Normal / Micro

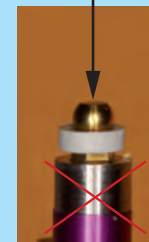
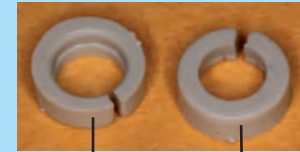


CLINIC



DIRECTIONAL RINGS CORRECT PLACEMENT

Before placing the impression abutment on the implant it is suggested to put a gray directional ring (for parallel systems) or a ring for angled implants if not parallel. This will keep the impression coping "on level" during the impression. The directional rings have only one direction of insertion.



Wrong placement



Correct placement



LABORATORY



3 EASY STEPS

1. Place directional rings (green and red as shown here) over the spheres establishing a level plane.
2. OT BOX positioners are placed over spheres to support box housing during framework fabrication.
3. After gluing the 2 OT BOX parts, cut and use the necessary pieces for the housing.

The Sphero Flex implant overdenture attachment is compatible with all implant systems currently on the market. Featuring a rotating ball with a diameter of 2.5 mm that is flexible to 7.5° in all directions. When used with a 14° directional ring, Sphero Flex corrects divergence up to 43° between two implants. Sphero Flex creates a passive path of insertion which reduces trauma to the implant.

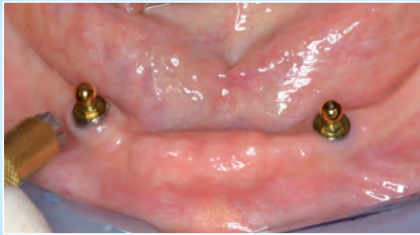
Sphero Block is a "one-piece" milled stationary ball implant attachment. It is available in 2.5 mm and 1.8 mm diameters. Sphero Block provides exceptional stability and corrects divergence up to 28° between 2 implants. Sphero Block implant attachments are compatible with all implant systems currently on the market.

Sphero Flex and Sphero Block are manufactured with cuff heights ranging from 1 mm to 7 mm. NOTE: The Sphero Flex and Sphero Block attachments are available for all platform diameters.

OVERDENTURE ATTACHMENTS - SPHERO FLEX - SPHERO BLOCK

Rotating & Stationary Ball Abutments For Divergence Correction

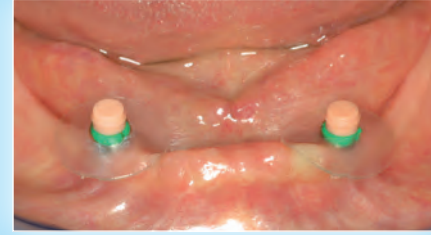
CHAIRSIDE PROCEDURE FOR POSITIONING THE CAPS



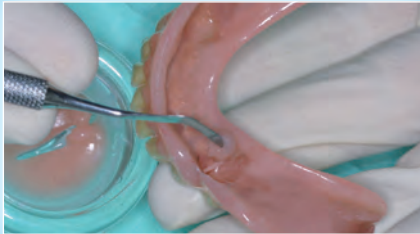
Screw the attachment into the implant. For best results, unscrew and screw the attachment 3/a times and then tight firmly.



Select the appropriate directional rings and place them over the spheres. Be sure that the ring is aligned with the hex and seated properly on the platform.



Once the directional rings have been positioned, it is advisable to remove the retentive caps and place a protective disk over the spheres. Replace the retentive caps in original position when finished.



Try the prosthesis in the mouth. Check to see if there is enough space for the retentive caps. Fill the holes with self-curing resin and position the prosthesis over the caps and spheres in the patient's mouth.



Once the resin has hardened, remove the prosthesis. Remove the protective disk along with any excess resin.



Finished prosthesis

TAKING IMPRESSION TRANSFER



Place the directional ring over the sphere with the flat side facing down. Place the impression coping over the sphere.



Rotate the directional rings to achieve a common axis parallel to the occlusal plane and take the impression.



Remove impression. Directional rings must be removed from the impression and spheres.



Place the analogs into the impression copings and send to the laboratory for model fabrication.

OT BOX CLASSIC NORMAL - CAST REINFORCED ACRYLIC PROSTHESIS USING DIRECTIONAL RINGS



Place directional rings over the spheres. OT BOX is placed over the directional rings, ensuring that the horizontal plane is level. Connect with resin.



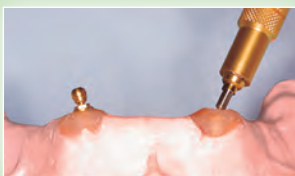
The constructed OT BOX substructure with reinforced wax pins. Sprued and ready for casting.



The cast substructure on the model. The metal reinforcement pins for each tooth are positioned according to the silicone mask.



Finished prosthesis with caps inserted in the cast OT BOX housings.



Screw the abutment into the analog. Be sure to use the abutment with the proper cuff height.



Directional rings are placed over the abutments and must be fully seated on the platform. Rotate rings until they are parallel in the same horizontal plane.



The nylon caps are inserted into the stainless steel housings and placed on top of the directional rings. Verify that the caps are still in the same horizontal plane.



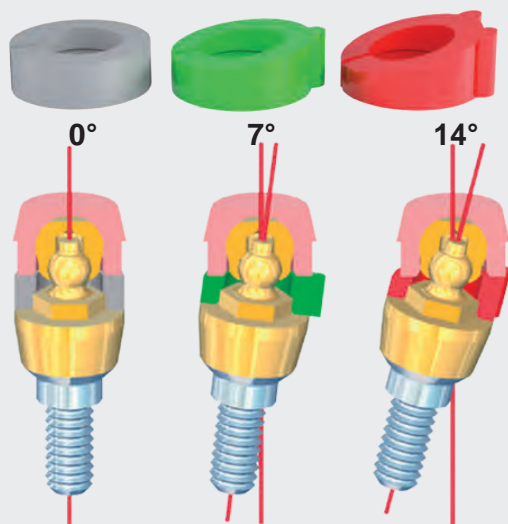
The finished prosthesis with stainless steel housings and retentive caps in final position.

IMPLANT OVERDENTURE ATTACHMENTS

Components and Accessories

DIRECTIONAL RINGS

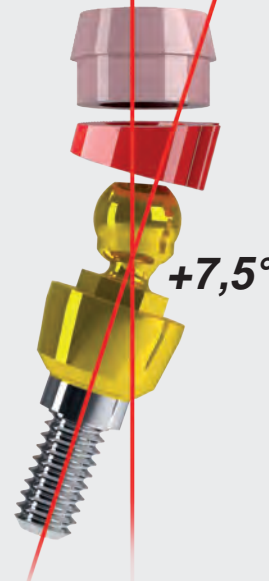
for angle correction



Sphero
FLEX

Sphero
BLOCK

Normo/Micro



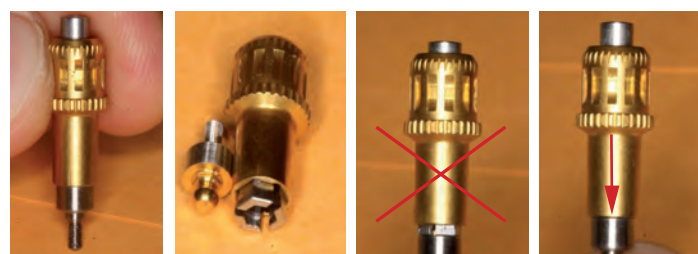
SPHERO FLEX - SPHERO BLOCK

In order to achieve a passive fit for the final prosthesis using the **SPHERO FLEX** and **SPHERO BLOCK** attachment systems, it is necessary to use **DIRECTIONAL RINGS**. When not used, there is a high possibility that the attachments will not seat properly into the prosthesis due to incorrect positioning of the caps. This mis-alignment will result in premature wear of the caps causing additional trauma to the implant. **SELECTION OF DIRECTIONAL RINGS**: The position and angulation of the implant will determine which directional ring will be used. For parallel implants, a 0° **DIRECTIONAL RING** can be used. For implants that have greater divergence, a 7° or 14° ring can be used.

Place the **DIRECTIONAL RING** onto the hex of the attachment with the flat side down. Be sure that the ring is fully seated. Next, place the retentive cap onto the sphere and rotate the **DIRECTIONAL RING** until the cap is parallel with the other caps and are in the same horizontal plane. This ensures that the retentive caps are correctly aligned inside of the final prosthesis.

INSTRUCTIONS FOR USE OF ABUTMENT DRIVER / WRENCH

Abutment Driver has a sliding mechanism that locks it onto the ball abutment. This needs to be fully engaged to properly tight the abutment without damaging the abutment. To dis-engage driver once the abutment is tightened in the mouth push down on the silver portion to loosen the driver from the abutment (Please screw and unscrew the abutment 3/4 times in order to achieve a fine adaption of the two threads). Then tight the abutment with a torque controller or the manual torque wrench.



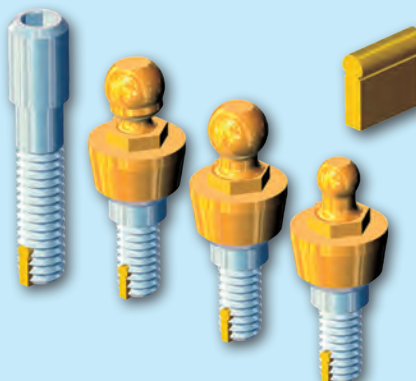
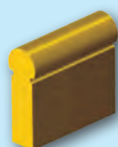
Clamping mechanism

Incompletely seated driver

Driver fully seated

UNIVERSAL "ANTI-UNSCREWING" SYSTEM WITH ELASTIC INSERT

Recommended for Sphero Flex, Sphero Block and OT Equator attachments with a cuff height over 5 mm. This system can also be used for single screws. (Core Vent, Branemark, Pitt Easy, Bona Fit)



ELASTIC INSERT

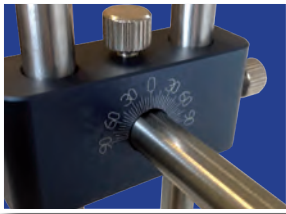
This component is manufactured from bio-compatible materials with an "elastic" memory. While screwing in the attachment, the insert is compressed. When the threaded attachment is fully seated, the elastic insert will expand and return to its original form, which prevents rotation and unscrewing of the device. The insert is applied at the manufacturing facility UPON REQUEST. It can be applied to any screw with a diameter greater than 1.8 mm.

MINI PARALLELOMETER WITH MODEL HOLDER BASE

MINI-PARALLELOMETER

FEATURES:

- EASY TO USE
- COMPACT
- PRECISE
- ECONOMICAL



The **MINI-PARALLELOMETER** allows accurate positioning of attachments without the need for an expensive milling machine. The **MINI-PARALLELOMETER** is a useful and economical device for the laboratory technician that can be used in day-to-day operations or in a training environment.

INSTRUCTIONS FOR USE

Place the stone model on the swivel base. Rotate the base until the ideal model position is found. Insert the mandrel into the notch on the horizontal extension arm and lock it into place by tightening the screw. Adjust the height by moving the horizontal arm up and down. Once the correct height has been found, lock the arm into position by tightening the rear locking screw.

CUFF HEIGHT MEASURING TOOL FOR IMPLANTS

INSTRUCTIONS FOR USE

1. Rotate upwards the gold colored plate until the tool is completely open.
2. Insert the tool into the implant. Be sure that it is fully seated on the top of the implant.
3. Firmly hold the tool and rotate the gold plate clockwise until it contacts the ridge.
4. Remove the tool and read the color coded rings indicated on the pin to determine the cuff height.

NOTE:

When a colored ring is completely covered, and only the silver band between colors is visible, it is recommended to utilize the next (higher) color.

IMPORTANT:

Before ordering an attachment, it is necessary to specify: Implant manufacturer, implant brand, diameter, internal or external hex connection and cuff height. The cuff height is determined by taking the corresponding color from the cuff height measuring tool. For implants with an internal hex connection the cuff height will range from .5 mm to 7 mm and for implants with an external hex connection, the cuff height will range from 1 mm to 7 mm.

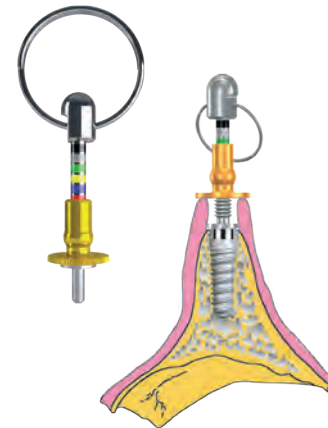


To determine the tissue height above the implant and eliminate mistakes when choosing the correct attachment, the Cuff Height Measuring tool is recommended.

The Cuff Height Tool is compatible with all implants that have an internal or external hex connection.

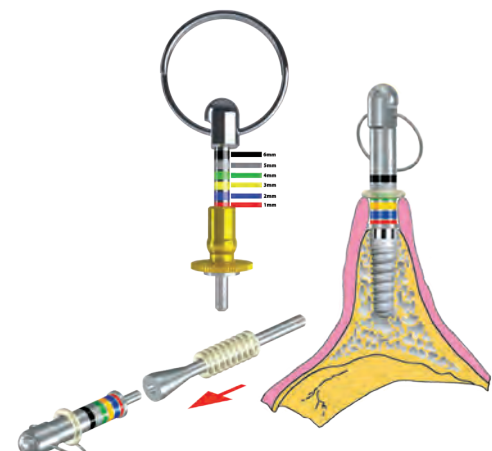
Cuff Height Measuring Tool
With Threaded Pin And Ball Indicator

With easy to read color-coded millimeter measurements, Dentists and dental laboratories can accurately measure tissue height between .5 mm and 7 mm. The ball indicator outlines where the male component of the attachment will seat above the tissue.



Cuff Height Measuring Tool
With Stationary Pin

The cuff height measuring tool with stationary pin provides the same functionality as the tool with a threaded pin, however it is used in cases where there is limited space between two implants.



BROKEN SCREW EXTRACTOR KIT FOR IMPLANTS

FOR REMOVAL OF BROKEN IMPLANT SCREWS



READILY AVAILABLE FOR CORE VENT AND BRANEMARK COMPATIBLE IMPLANTS
EXTRACTOR KITS CAN BE MADE TO ORDER FOR MOST common IMPLANT BRANDS WITH AN INTERNAL OR EXTERNAL HEX CONNECTION



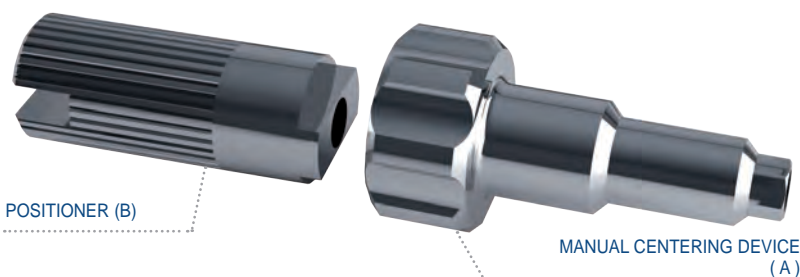
Claw reamer bur (C) inserted in the positioner (B) for manual removal of the broken screw



REVERSE CUTTING BUR (D)



CLAW REAMER BUR (C)




POSITIONER (B)

MANUAL CENTERING DEVICE (A)


PARTS AND ACCESSORIES:

- A MANUAL CENTERING DEVICE
- B POSITIONER
- C CLAW REAMER BUR
- D REVERSE CUTTING BUR

CLINIC

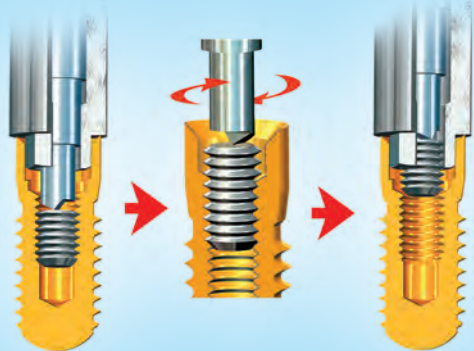


BROKEN SCREW VISIBLE IN X-RAY OF IMPLANT



BROKEN SCREW REMOVED

REMOVING THE BROKEN SCREW WITH THE CLAW REAMER BUR



With the Rhein83 Broken Screw Extractor Kit, it is possible to remove a broken screw from an implant if it has not been bonded or damaged during previous attempts to remove it.

The extractor kit includes two types of burs; a claw reamer bur and reverse cutting bur. In addition, the kit includes manual centering devices to hold the burs in place during the procedure. In 90% of cases, the broken screw can be removed easily with the claw reamer bur. However if the broken screw is firmly stuck inside the implant, the reverse cutting bur must be used.

Broken Screw Extractor Kits are readily available for Core Vent and Branemark compatible implant systems. Other kits, both with internal and external key can be ordered upon request.

To order a custom kit or for technical support, please contact your local Rhein83 distributor.

BROKEN SCREW EXTRACTOR KIT FOR IMPLANTS FOR REMOVAL OF BROKEN IMPLANT SCREWS

USING THE REVERSE CUTTING BUR TO EXTRACT A BROKEN SCREW

Place the reverse cutting bur into the angled handpiece and then insert it into the respective extractor. Before activating the handpiece it is essential that the bur is in contact with the broken screw. Activate the handpiece in a counter clockwise direction and be sure that firm downward pressure is maintained throughout the procedure. It is mandatory to set the rotating ratio between 400 and 600 rpm in order to avoid the implant and the bone overheating. To prevent the implant fixture from overheating, it is necessary to move the reverse cutting bur in an up and down motion intermittently. Upon removing the broken screw, be sure to clean the implant fixture thoroughly to remove any residual metal leftover that remain from the extraction procedure.

NOTE: Before using, fill the bottom hole (side with the hex) of the centering device with petroleum jelly. In addition to lubricating the device, in some cases, it will hold the broken screw in the extractor upon removal.



Operate between and 2000 rpm

USING THE CLAW REAMER BUR WITH THE MANUAL CENTERING DEVICE

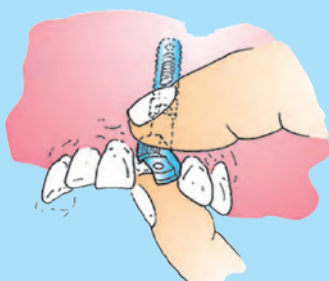


Fig.1

While holding the manual centering device firmly, insert the device (A) into the fixture and make sure that the hexagon is fully engaged into the implant fixture.

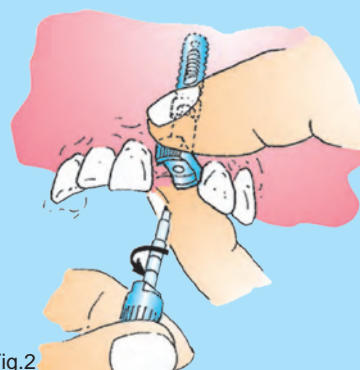


Fig.2

Insert the claw reamer bur (C) into positioner (B). Insert the bur into the centering device until it comes into contact with the broken screw. Rotate in a counter clockwise direction while maintaining constant downward pressure. After a few turns the notch in the bur should reappear. Manually remove the centering device which will contain the screw, if not it will remain inside the implant and can easily be removed with tweezers.



Fig.3

In certain cases, it may be easier to use the claw reamer bur (C) with a contrangle handpiece. With the motor stopped, insert the claw reamer bur into the centering device (A) until the tip touches the broken screw.



Fig.4

While applying pressure to the broken screw, start the motor in a COUNTER CLOCKWISE direction at a low RPM. After a few turns the notch in the bur should reappear. Manually remove the centering device which will contain the screw, if not it will remain inside the implant and can easily be removed with tweezers.

IMPORTANT: Please follow the instructions closely when using the Broken Screw Extractor Kit. Although the Reverse Cutting Bur has been hardened by a tempering process, it should always remain vertical (parallel with the screw hole) during the procedure to prevent breakage. The Reverse Cutting Bur and Claw Reamer Bur are subject to wear. These burs should be inspected for wear prior to each procedure and replaced if necessary. Finally, it is very important that the motor direction is set to COUNTER CLOCKWISE when using this kit.

INSTRUCTIONS AND TECHNICAL ADVICE



REPLACEMENT OF CAPS

Rhein83 recommends that caps should be replaced every 12 months. The longevity of the caps is affected by many variables including: original case design, patient hygiene and general maintenance of the prosthesis.



HOW TO REPLACE THE CAPS

In a prosthesis with metal housings, the cap can be removed by using the extractor tool for caps; otherwise use a spherical bur at low RPM without damaging the housing.

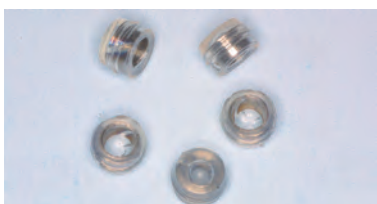


In a prosthesis where the cap is incorporated directly into the resin, it can be removed by hand with a pointed instrument (such as a spatula) or the Rhein83 cap extractor tool. If a bur is used, be careful to remove only the retentive cap and to not modify the form that remains in the resin. If the resin site is damaged during the removal of the cap, repair the area with self curing resin before inserting the new cap. The cap insertion tool is used for this procedure.



GREEN ELASTIC CAPS

These caps are highly elastic and have a medium level of retention. In cases where metal housings are used, it is recommended to apply a drop of adhesive (cyanoacrylic) on the inside of the housing before inserting the cap.



TITAN CAPS

These caps were designed to be used on the **OT CAP TECNO** as well as the Normal and Micro attachments with machined titanium spheres.



CAP INSERTION TOOL

When using high retention caps, it is recommended to insert them directly in the clinic into the housing using the cap insertion tool.

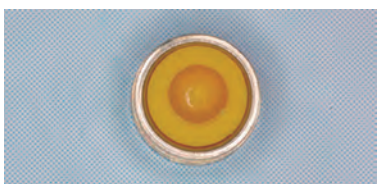
OT CAP Normal / Micro OT Reverse.



PROSTHESES WITH MULTIPLE ATTACHMENTS

In order to balance the retentive levels of a prosthesis with multiple attachments, it is possible to use caps with different levels of retention.

REAMERS AND CAP TESTERS: if the retention of the caps is too high, insert the reamer into the caps and rotate it in a clockwise direction, after only a few rotations it will wear down the perimeter which will reduce the retention. Try the prosthesis in the mouth, if it is still too retentive, repeat the operation with the reamer. In order to avoid trying the prosthesis in the mouth too many times, one can use the spherical tester, in order to evaluate the holding strength.



HOW THE RETENTIVE CAP FUNCTIONS

The Rhein83 caps are manufactured with a high elasticity which creates both mechanical and frictional retention resulting in a larger contact zone between the cap and the lower portion of the sphere. A small space between the metal housing and the cap allows the cap to expand as it passes over the equator of the sphere. Once completely engaged, the cap returns to its original form.



POLISHING OF THE "CAST" ATTACHMENTS:

It is recommended that only glass beads or a soft cloth wheel are used to polish attachments. In order to avoid damage to the sphere during these procedures, it is a good practice to cover the spheres with a retentive cap. The retentive caps can be reused again for this procedure.

TRADITIONAL PROSTHESES



REF.

DESCRIPTION

06P

Model with upper prosthesis with OT Cap
Normal / Micro size attachments:
1 OT CAP NORMAL
1 OT CAP MICRO
1 Frame with OT BOX mono housings
5 Acrylic teeth



07P

Model with lower prosthesis with OT Strategy
1 OT STRATEGY
1 OT STRATEGY + STEADY
1 Frame with caps and duplicated housings
5 Acrylic teeth



04P

PROSTHESIS ON NATURAL TEETH
Model with lower "Overdenture" prosthesis:
1 PIVOT FLEX titanium post
1 Cast post with OT CAP sphere
1 Complete denture with 14 teeth
1 Cast OT BOX reinforcement incorporated in the denture

04P/A

Same model as 04P. Denture with pre-fabricated
STAINLESS STEEL HOUSINGS for retentive caps



09P

MODEL WITH LOWER PROSTHESIS WITH OT VERTICAL
1 OT VERTICAL
1 OT VERTICAL + STEADY
1 Frame with clips and duplicated housing
6 Acrylic teeth

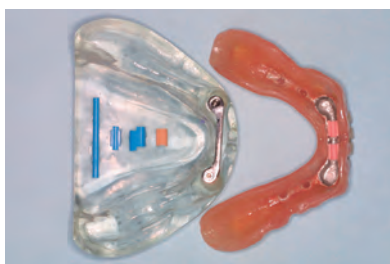


031

IMPLANT MODELS
Model with lower prosthesis with SPHERO FLEX abutments:
2 Implant analogs
1 SPHERO FLEX
1 SPHERO BLOCK
1 Complete denture with 14 teeth
1 Cast OT BOX reinforcement incorporated in the denture

031/A

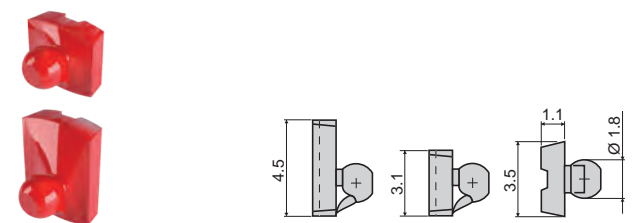
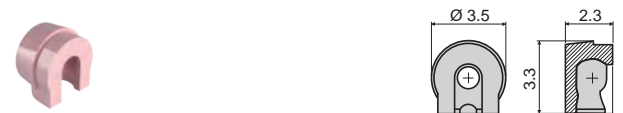
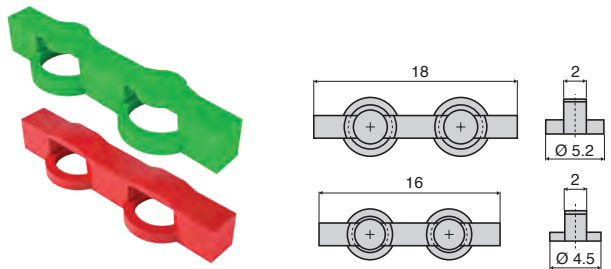
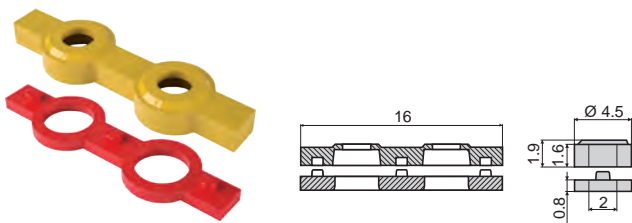
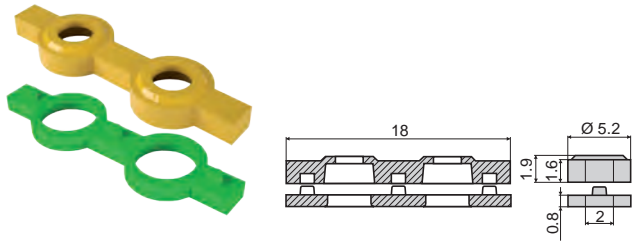
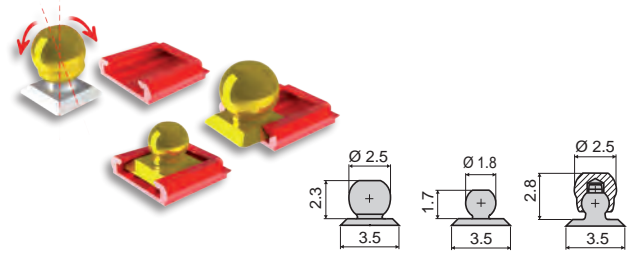
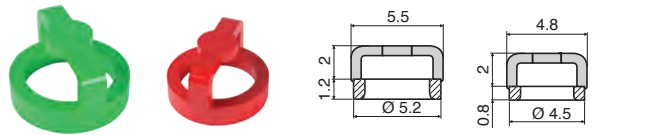
Same model as 031. Denture with pre-fabricated
STAINLESS STEEL HOUSINGS



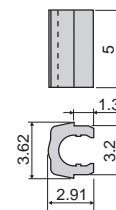
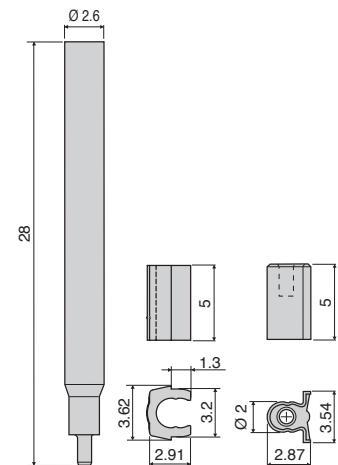
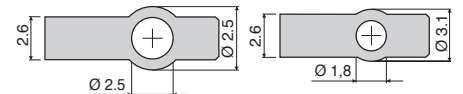
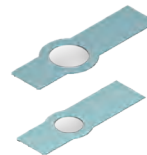
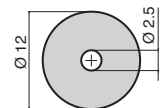
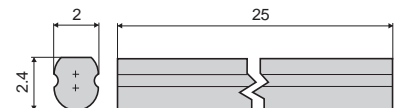
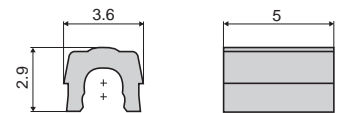
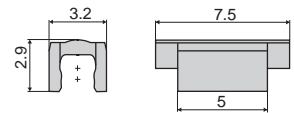
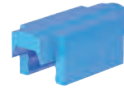
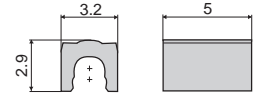
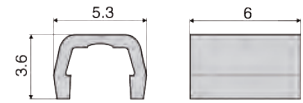
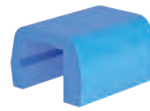
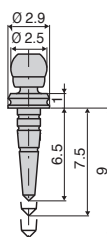
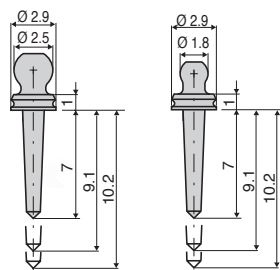
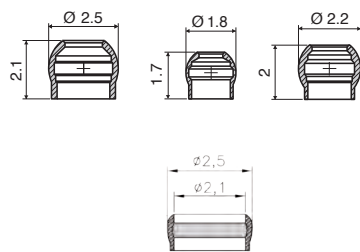
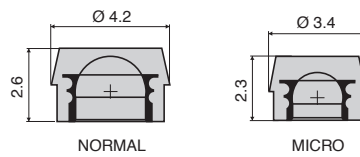
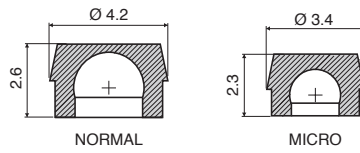
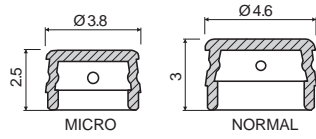
08B

PROSTHESIS ON FIXTURES
Model with lower prosthesis with OT Bar Multiuse:
2 Implant analogs
1 Cast bar with copings
1 OT BAR MULTIUSE
1 Cast superstructure with two retentive clips
1 Complete denture with 14 teeth

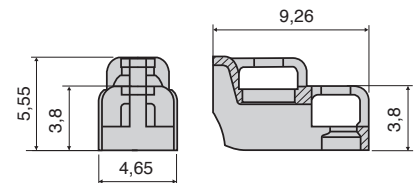
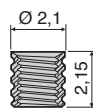
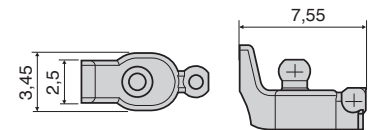
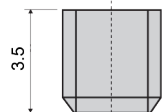
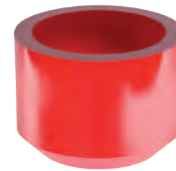
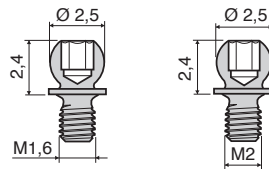
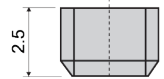
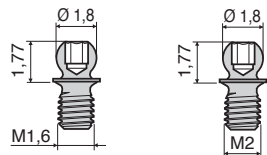
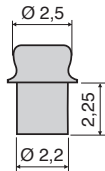
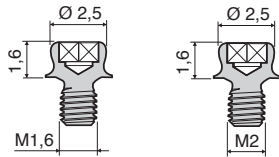
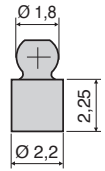
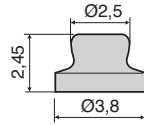
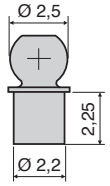
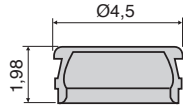
PRODUCT SPECIFICATIONS



PRODUCT RANGE - SIZES AND DIMENSIONS



PRODUCT SPECIFICATIONS



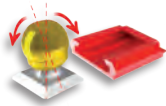


Ref.: 005SKLUS
INTRODUCTORY KIT FOR LABORATORY
 contains assorted attachments and tools



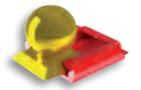
Ref.: 011SPL
S.P.L. INTRODUCTORY KIT
 contains assorted titanium BLOCK pivots, castable pivots, retentive caps and two regulating tools

ATTACHMENTS OT CAP SYSTEM



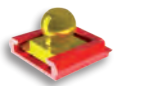
Ref.: 038STF

TITANIUM FLEX SINGLE SPHERE NORMAL SIZE + TIN
 Kit contains
 2 SINGLE TITANIUM SPHERES
 2 PINK CAPS - SOFT RETENTION
 1 SPHERE HOLDER
 2 CASTABLE SLIDING BASES



Ref.: 038STN

TITANIUM SINGLE SPHERE NORMAL SIZE + TIN
 Kit contains
 2 SINGLE TITANIUM SPHERES
 2 PINK CAPS - SOFT RETENTION
 1 SPHERE HOLDER
 2 CASTABLE SLIDING BASES



Ref.: 038STM

TITANIUM SINGLE SPHERE MICRO SIZE + TIN
 Kit contains
 2 SINGLE TITANIUM SPHERES
 2 PINK CAPS - SOFT RETENTION
 1 SPHERE HOLDER
 2 CASTABLE SLIDING BASES



Ref.: 093CTN
 NORMAL

OT CAP TECNO - NORMAL/MICRO
 Kit contains
 2 PRE-ANGULATED CASTABLE EXTENSIONS
 2 TITANIUM SINGLE THREADED SPHERES
 2 TRANSPARENT CAPS NORMAL/MICRO
 2 PINK CAPS NORMAL/MICRO
 2 YELLOW CAPS NORMAL/MICRO



Ref.: 093CTM
 MICRO

Kit contains
 2 PRE-ANGULATED CASTABLE EXTENSIONS
 2 TITANIUM SINGLE THREADED SPHERES
 2 TRANSPARENT CAPS NORMAL/MICRO
 2 PINK CAPS NORMAL/MICRO
 2 YELLOW CAPS NORMAL/MICRO



Ref.: 092CAN

OT CAP NORMAL SIZE
 Kit contains
 4 SINGLE SPHERES
 4 PINK RETENTIVE CAPS
 4 STAINLESS STEEL HOUSINGS (2 for resin - 2 for soldering)
 4 PLASTIC POSITIONING RINGS



Ref.: 092CAM

OT CAP MICRO SIZE
 Kit contains
 4 SINGLE SPHERES
 4 PINK RETENTIVE CAPS
 4 STAINLESS STEEL HOUSINGS (2 for resin - 2 for soldering)
 4 PLASTIC POSITIONING RINGS



Ref.: 196BCN

"ECONOMIC" OT CAP NORMAL SIZE
 Kit contains
 1 CASTABLE BAR
 1 CASTABLE BEVELLED BAR
 4 CLEAR RETENTIVE CAPS (Standard retention)



Ref.: 197BCM

"ECONOMIC" OT CAP MICRO SIZE
 Kit contains
 1 CASTABLE BAR
 1 CASTABLE BEVELLED BAR
 4 CLEAR RETENTIVE CAPS (Standard retention)



Ref.: 099BSN

OT CAP & MONO OT BOX FOR FRAME NORMAL SIZE
 Kit contains
 2 CASTABLE BARS (1 straight - 1 bevelled)
 4 CLEAR RETENTIVE CAPS
 4 CASTABLE MONO OT BOX
 4 PLASTIC POSITIONING RINGS



Ref.: 099BSM

OT CAP & MONO OT BOX FOR FRAME MICRO SIZE
 Kit contains
 2 CASTABLE BARS (1 straight - 1 bevelled)
 4 CLEAR RETENTIVE CAPS
 4 CASTABLE MONO OT BOX
 4 PLASTIC POSITIONING RINGS



Ref.: 058BSN

OT BOX SPECIAL NORMAL SIZE + CONNECTORS
 Kit contains
 2 OT BOX SPECIAL BARS
 4 PLASTIC POSITIONERS
 4 CONNECTORS



Ref.: 058BSM

OT BOX SPECIAL MICRO SIZE + CONNECTORS
 Kit contains
 2 OT BOX SPECIAL BARS
 4 PLASTIC POSITIONERS
 4 CONNECTORS



Ref.: 153BCN

OT BOX CLASSIC NORMAL SIZE + CONNECTORS
 Kit contains
 2 UPPER BARS
 2 LOWER BARS
 4 PLASTIC POSITIONERS
 4 CONNECTORS



Ref.: 153BCM

OT BOX CLASSIC MICRO SIZE + CONNECTORS
 Kit contains
 2 UPPER BARS
 2 LOWER BARS
 4 PLASTIC POSITIONERS
 4 CONNECTORS



Ref.: 087CRS

CONCAVE RECONSTRUCTIVE SPHERE
 Kit contains
 2 CONCAVE SPHERES IN TITANIUM - TIN COATED
 2 PINK CAPS SOFT RETENTION
 1 INSERTION TOOL
 1 GAUGE AND STRIP HOLDER
 Available in 1.8 mm, 2.2 mm, 2.5 mm diameters



Ref.: 087CRE

CONCAVE REPAIR OT EQUATOR
 Kit contains
 2 CONCAVE OT EQUATOR IN TITANIUM - TIN COATED
 2 PINK CAPS SOFT RETENTION
 1 INSERTION TOOL
 1 GAUGE AND STRIP HOLDER



Ref.: 089SRS

SOLID RECONSTRUCTIVE SPHERE
 Kit contains
 2 SOLID SPHERES IN TITANIUM - TIN COATED
 2 PINK CAPS SOFT RETENTION
 2 PROTECTIVE DISKS
 1 KEY
 Available in 1.8 mm diameter



Ref.: 064ACN
 NORMAL

ASSORTED RETENTIVE CAPS
 Kit NORMAL - Kit MICRO
 6 CLEAR CAPS - STANDARD RETENTION
 6 PINK CAPS - SOFT RETENTION
 6 YELLOW CAPS - EXTRA SOFT RETENTION
 6 GREEN CAPS - VERY ELASTIC RETENTION

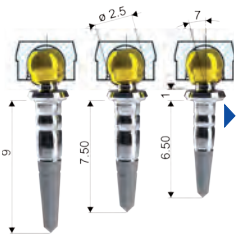


Ref.: 064ACM
 MICRO

ASSORTED RETENTIVE CAPS
 Kit NORMAL - Kit MICRO
 6 CLEAR CAPS - STANDARD RETENTION
 6 PINK CAPS - SOFT RETENTION
 6 YELLOW CAPS - EXTRA SOFT RETENTION
 6 GREEN CAPS - VERY ELASTIC RETENTION

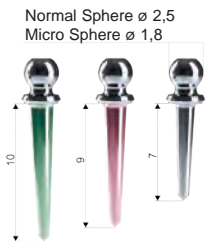
KITS AND CODES

S.P.L. PIVOTS



Ref.:
033PSF

PIVOT FLEX - TITANIUM PIVOT WITH SWIVEL SPHERE NORMAL SIZE (Ø 2.5 mm) FOR DIRECT OVERDENTURE
(3 Sizes available)
Kit contains
1 TITANIUM PIVOT WITH ROTATING SPHERE (adapted for COPING COVER)
1 STAINLESS STEEL HOUSING FOR RESIN
2 PINK CAPS Normal Size - Soft retention
1 ALUMINIUM DISK
3 DIRECTIONAL RINGS



Ref.:
036PTN

TITANIUM PIVOTS Normal Size Adapted for COPING COVER
Kit contains
5 TITANIUM PIVOTS Sphere 2.5 mm

Ref.:
036PTM

TITANIUM PIVOTS Micro Size Adapted for COPING COVER
Kit contains
5 TITANIUM PIVOTS Sphere 1.8 mm



Ref.:
010PSP

CASTABLE PIVOTS NORMAL SIZE



Ref.:
012PSM

CASTABLE PIVOTS MICRO SIZE



Ref.:
A01MOG

MOOSER BUR
Reamer for post 7 mm, 9 mm, 10 mm

Ref.:
A03MOB

MOOSER BUR
Reamer for post 12 mm, 14 mm



Ref.:
485IC

OT CAP NORMAL AND MICRO SIZE CAPS INSERTER/EXTRACTOR TOOL



Ref.:
74AC01

PARALLELOMETER MANDREL FOR OT CAP NORMAL SIZE



Ref.:
74AC02

PARALLELOMETER MANDREL FOR OT CAP MICRO SIZE



Ref.:
74AC03

PARALLELOMETER MANDREL FOR OT CAP TECNO NORMAL AND MICRO SIZE



Ref.:
080RCN

REAMER TOOL FOR CAPS OT CAP NORMAL SIZE



Ref.:
080RCM

REAMER TOOL FOR CAPS OT CAP MICRO SIZE



Ref.:
082ATN

TOOL FOR TESTING CAP RETENTION OT CAP NORMAL SIZE



Ref.:
083ATM

TOOL FOR TESTING CAP RETENTION OT CAP MICRO SIZE



Ref.:
491EC

CAPS EXTRACTOR TOOL WITH MULTIUSE HOUSING FOR CLIPS AND CAPS INSERTION

OT STRATEGY ATTACHMENTS



Ref.:
098SSS

OT STRATEGY CAPS FOR DUPLICATION TECHNIQUE
Kit contains
4 CASTABLE MALES 2 Standard + 2 High
2 CASTABLE STEADY
4 RETENTIVE CAPS



Ref.:
098CAL

OT STRATEGY CAPS FOR DUPLICATION TECHNIQUE
Kit contains
4 CASTABLE MALES (2 Standard + 2 High)
2 CASTABLE STEADY
4 STAINLESS STEEL HOUSINGS
2 POSITIONING RINGS
4 RETENTIVE CAPS



Ref.:
047ACS

OT STRATEGY ASSORTMENT CAP KIT FOR DUPLICATION TECHNIQUE
Kit contains
4 YELLOW CAPS - EXTRA SOFT RETENTION
4 PINK CAPS - SOFT RETENTION
4 CLEAR CAPS - STANDARD RETENTION



Ref.:
045ACS

OT STRATEGY ASSORTMENT CAP KIT FOR STAINLESS STEEL HOUSINGS
Kit contains
4 YELLOW CAPS - EXTRA SOFT RETENTION
4 PINK CAPS - SOFT RETENTION
4 CLEAR CAPS - STANDARD RETENTION



Ref.:
486ICS

OT STRATEGY CAPS INSERTER/EXTRACTOR TOOL



Ref.:
75AC04

PARALLELOMETER MANDREL FOR OT STRATEGY



Ref.:
081RCS

REAMER TOOL FOR OT STRATEGY CAPS

OT BAR MULTIUSE ATTACHMENTS



Ref.:
021OBM

OT BAR MULTIUSE
Kit contains
2 BARS
4 POSITIONING CLIPS A
4 POSITIONING CLIPS B
4 BOXES
4 RETENTIVE PINK CLIPS
4 RETENTIVE YELLOW CLIPS
2 CONNECTORS
1 GINGIVAL CONNECTOR



Ref.:
429IOBM

OT BAR CLIPS INSERTER/EXTRACTOR TOOL



Ref.:
028OCP

PARALLELOMETER MANDREL FOR OT BAR MULTIUSE

OT VERTICAL ATTACHMENTS



Ref.:
071OBV

OT VERTICAL
Kit contains
4 CASTABLE MALES
4 CASTABLE STEADY
4 RETENTIVE WHITE CLIPS
2 RETENTIVE GREEN CLIPS
4 CERAMIC PINS
4 CASTABLE PARALLELOMETER KEYS + PIN



Ref.:
472ICV

OT VERTICAL CLIPS INSERTER/EXTRACTOR TOOL

OT EQUATOR



OT EQUATOR CASTABLE



Ref.:
092ECQ

OT EQUATOR CASTABLE

- Kit Contains:
- 2 CASTABLE MALES
 - 2 TITANIUM HOUSINGS
 - 4 RETENTIVE CAPS

OT EQUATOR FOR IMPLANTS



Ref.:
130

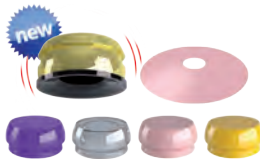
OT EQUATOR FOR IMPLANTS

- Kit Contains:
- 1 OT EQUATOR
 - 1 TITANIUM HOUSING
 - 1 PROTECTIVE DISK
 - 4 RETENTIVE CAPS



Ref.:
030

- 1 OT EQUATOR ABUTMENT
*Compatible with ALL implant systems



Ref.:
335SBC

OT EQUATOR SMARTBOX KIT self-aligning caps housing

- Kit Contains:
- 1 SMARTBOX HOUSING WITH BLACK CAP FOR LABORATORY
 - 1 PINK PROTECTIVE DISK
 - 4 RETENTIVE CAPS
(1 EXTRA-SOFT, 1 SOFT, 1 STANDARD, 1 STRONG)



Ref.:
330SBE

- Kit Contains:
- 1 SMARTBOX HOUSING WITH BLACK CAP FOR LABORATORY

OT EQUATOR BAR



Ref.:
160EQB

OT EQUATOR WITH THREADED SLEEVE For Bonding

- Kit Contains:
- 2 THREADED OT EQUATOR-1.6 mm thread
 - 2 THREADED SLEEVES-1.6 mm thread
 - 2 STAINLESS STEEL HOUSINGS
 - 2 WAXING SPACERS
 - 8 RETENTIVE CAPS
2 YELLOW - EXTRA SOFT
2 PINK - SOFT
2 CLEAR - STANDARD
2 BLACK - PROCESSING



Ref.:
039SFE2

- 1 THREADED OT EQUATOR
2 mm universal thread

OT EQUATOR ELASTIC SEEGER



Ref.:
158ESA

Passive Bar Connection

ELASTIC SEEGER

- Kit Contains:
- 1 CASTABLE CYLINDER HOUSINGS FOR SEEGER
 - 1 SELF-EXTRACTING SEEGER
 - 1 TITANIUM LOCKING SCREW FOR SELF-EXTRACTING SEEGER

TOOLS



Ref.:
74AC01

- PARALLELOMETER MANDREL NORMAL



Ref.:
774CHE

- OT EQUATOR SQUARE DRIVER 1.25 mm + HOLDER



Ref.:
760CE

- OT EQUATOR HANDPIECE CONNECTOR 1.25 mm



Ref.:
085SIS

- STEEL INSERTION TOOL FOR SEEGER



Ref.:
491EC

- CAPS EXTRACTOR TOOL WITH UNIVERSAL INSERTER HOUSING

ACCESSORIES



Ref.:
044CAIN

- 2 IMPRESSION TRANSFER (pick up impression)



Ref.:
144MTE

- 2 IMPRESSION TRANSFER



Ref.:
144AE

- 2 STAINLESS STEEL ANALOGS For OT Equator



Ref.:
485IC

- CAPS INSERTER/EXTRACTOR TOOL (OT EQUATOR-NORMO-MICRO)

SPARE PARTS



Ref.:
192ECE

OT EQUATOR CAP ASSORTMENT KIT

- Kit Contains:
- 1 TITANIUM HOUSING
 - 1 BLACK CAP - PROCESSING
 - 4 RETENTIVE CAPS:
1 YELLOW - EXTRA SOFT - 1 PINK - SOFT
1 CLEAR - STANDARD - 1 VIOLET - RIGID
1 BLACK - PROCESSING - 1 PROTECTIVE DISK

KITS AND CODES

OT CAP / OT EQUATOR IMPRESSION COPINGS



- Ref.: **044CAIN** • 2 STAINLESS STEEL IMPRESSION COPINGS For OT CAP Normal and OT EQUATOR
- Ref.: **044CAI22** • 2 STAINLESS STEEL IMPRESSION COPINGS Ø 2,25mm Spheres with interchangeable cap
- Ref.: **044CAIM** • 2 STAINLESS STEEL IMPRESSION COPINGS For OT CAP Micro

TOOLS



- Ref.: **772CSF** • HEX DRIVER - 0.9 mm For Threaded Micro Sphere

SINGLE THREADED SPHERES WITH THREADED BONDING SLEEVE



- Titanium + TiN Threaded Sphere With Sleeve For Bonding Kit - NORMAL SIZE**
- Ref.: **139KSFN**
- Kit contains:
- 2 TITANIUM SINGLE THREADED SPHERES 1.3 mm Hex, 1.6 mm Thread
 - 2 TITANIUM THREADED SLEEVES For Bonding
 - 2 WAXING SPACERS For Threaded Sphere - Normal Size



- Titanium + TiN Threaded Sphere With Sleeve For Bonding Kit - MICRO SIZE**
- Ref.: **139KSFM**
- Kit contains:
- 2 TITANIUM SINGLE THREADED SPHERES 0.9 mm Hex, 1.6 mm Thread
 - 2 TITANIUM THREADED SLEEVES For Bonding
 - 2 WAXING SPACERS For Threaded Sphere - Micro Size

SINGLE THREADED SPHERES NORMAL - MICRO



- Ref.: **039SFN2** • 1 TITANIUM + TiN THREADED SPHERE NORMAL 1.3 mm Hex, 2.0 mm Thread
- Ref.: **039SFM2** • 1 TITANIUM + TiN THREADED SPHERE MICRO 0.9 mm Hex, 2.0 mm Thread

OT LOCK



- OT LOCK KIT**
- Ref.: **880CLT**
- Kit contains:
- 1 COMPLETE OT LOCK
 - 1 BRASS POSITIONER
 - 1 CERAMIC PIN



- ADJUSTABLE OT LOCK KIT**
- Ref.: **880CLR**
- Kit contains:
- 1 COMPLETE ADJUSTABLE OT LOCK
 - 1 EXTENDED BRASS POSITIONER
 - 1 CERAMIC PIN
 - 9 CASTABLE SPACER RINGS

OT LOCK SPARE PARTS



- Ref.: **882CG** • CONICAL GUIDE



- Ref.: **882CAS** • UNLOCKING TOOL

INCLUDES OT CAP & OT BOX - OT STRATEGY - OT BAR - OT VERTICAL - OT UNILATERAL - OT EQUATOR

“BASIC” PROMOTIONAL KIT FOR LABORATORY



- Ref.: **005SKLBUS**

TOOLS:

- 1 TWEEZER
- 1 PARALLELOMETER MANDREL OT CAP NORMO
- 1 PARALLELOMETER MANDREL OT CAP MICRO
- 1 PARALLELOMETER MANDREL OT STRATEGY
- 1 PARALLELOMETER MANDREL OT BAR MULTIUSE
- 1 BLUE PLASTIC UNIVERSAL INSERTION HANDLE
- 1 INSERTION TOOL - OT CAP NORMAL / MICRO
- 1 INSERTION TOOL - OT STRATEGY
- 1 INSERTION TOOL - OT BAR MULTIUSE
- 1 INSERTION TOOL - OT VERTICAL

Kit contains:

OT CAP - OT BOX:

- 16 ASSORTED CASTABLE PIVOTS NORMAL / MICRO
- 4 CASTABLE SPHERES NORMAL / MICRO
- 2 CASTABLE OT CAP BARS NORMAL / MICRO
- 2 CASTABLE OT BOX BARS CLASSIC (top + bottom) NORMAL / MICRO
- 1 CASTABLE OT BOX SPECIAL BARS NORMAL / MICRO
- 6 CASTABLE OT BOX CONNECTORS
- 4 CASTABLE OT BOX MONO HOUSING NORMAL / MICRO
- 8 POSITIONER RINGS NORMAL / MICRO
- 28 OT CAP RETENTIVE CAPS NORMAL / MICRO YELLOW, PINK, CLEAR, GREEN
- 9 BLACK CAPS - FOR PROCESSING NORMAL / MICRO
- 4 STAINLESS STEEL HOUSINGS NORMAL / MICRO FOR RESIN

OT STRATEGY:

- 4 OT STRATEGY MALES - 2 STANDARD BASE - 2 LONG BASE
- 2 CASTABLE STEADY

- 6 OT STRATEGY CAPS FOR STAINLESS STEEL HOUSING YELLOW, PINK, CLEAR

OT STRATEGY CONTINUED:

- 2 OT STRATEGY STAINLESS STEEL HOUSINGS
- 2 OT STRATEGY PLASTIC POSITIONING RINGS
- 6 OT STRATEGY CAPS FOR DUPLICATION TECHNIQUE YELLOW, PINK, CLEAR
- 4 BLACK CAPS - PROCESSING (for wax and for duplication technique)

OT EQUATOR:

- 2 CASTABLE MALES
- 2 STAINLESS STEEL HOUSINGS
- 4 RETENTIVE CAPS - 2 PINK, 2 CLEAR
- 2 BLACK CAPS FOR LABORATORY USE

OT UNILATERAL:

- 1 CASTABLE ATTACHMENT WITH COMBINED SPHERES
- 1 CASTABLE UNI-BOX
- 1 MICRO POSITIONING RING
- 2 OT CAP MICRO CAPS - 1 PINK, 1 BLACK

- 2 OT STRATEGY CAPS - 1 PINK, 1 BLACK For Duplication Technique
- 1 CONNECTOR

OT BAR MULTIUSE:

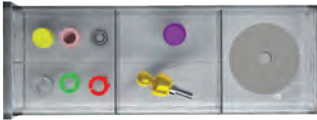
- 1 CASTABLE BARS
- 1 BAR EXTENSION
- 4 POSITIONING CLIPS (Type A - Type B)
- 2 CASTABLE BOXES
- 4 CLIPS - 2 PINK, 2 YELLOW

OT VERTICAL:

- 2 CASTABLE MALES
- 2 CASTABLE STEADY
- 4 CLIPS - 2 WHITE, 2 GREEN
- 2 PARALLELOMETER KEYS + PIN
- 2 CERAMIC PINS

IMPLANTOLOGY

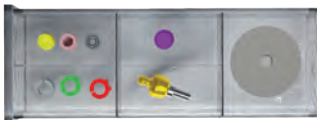
SPHERO FLEX - BLOCK SYSTEM TITANIUM ATTACHMENTS FOR OVERDENTURES



- Ref.: 109
- SPHERO FLEX**
- 1 Titanium Abutment with self-aligning 2.5mm sphere
 - 2 Pink Caps - Soft Retention
 - 1 Stainless Steel Housing
 - 1 Protective Disk
 - 3 Directional Rings



- Ref.: 002
- SPHERO BLOCK NORMAL**
- 1 Titanium Abutment with stationary 2.5mm sphere
 - 2 Pink Caps - Soft Retention
 - 1 Stainless Steel Housing
 - 1 Protective Disk
 - 3 Directional Rings



- Ref.: 003
- SPHERO BLOCK MICRO**
- 1 Titanium Abutment with stationary 1.8mm sphere
 - 2 Pink Caps - Soft Retention
 - 1 Stainless Steel Housing
 - 1 Protective Disk
 - 3 Directional Rings

ANCILLARY ITEMS

14 cm height



- Ref.: 00PB
- MINI PARALLELOMETER**
WITH UNIVERSAL TILTING MODEL TABLE
(FOR LABORATORY USE, COURSES, ETC.)



- Ref.: OC
- OT CEM** is a self and photo curing cement. It is designed for permanent metal to metal bonding in the use of attachments in prosthetic implant solutions.

SPHERO FLEX / SPHERO BLOCK TOOLS



- Ref.: 771CEF
- UNIVERSAL KEY FOR SPHERO FLEX AND SPHERO BLOCK - NORMAL / MICRO**
Hex 2.3 mm



- Ref.: 760CBM
- HEX DRIVER**
FOR CONTRA-ANGLE TORQUE CONTROLLER



- Ref.: 760CBR
- SCREW DRIVER FOR OT REVERSE THREADED SPHERE NORMAL**
Hex 1.3 mm

SPECIALTY ITEMS FOR IMPLANTS



- Ref.: 008MBG
- CUFF HEIGHT MEASURING TOOL**
Kit contains:
- 1 CUFF HEIGHT SLIDER GAGUE
 - 1 CUFF HEIGHT FIXED ROD GAGUE
 - 1 SILICON RINGS DISPENSER
 - 20 SILICON RINGS



- Ref.: 680
- BROKEN SCREW EXTRACTOR KIT**
For removing broken screws from implants

- Kit contains:
- 1 MANUAL CENTERING DEVICE
 - 1 POSITIONER
 - 1 CLAW REAMER BUR
 - 1 REVERSE CUTTING BUR

- Kit contains:
- 1 CLAW REAMER BUR
 - 1 REVERSE CUTTING BUR

- Ref.: 680FS 1 REVERSE CUTTING BUR
Ref.: 680FL 1 FCLAW REAMER BUR

IMPLANTOLOGY

ACCESSORIES FOR IMPLANTS

For information on abutments for other implant systems please contact Rhein83



- Ref.: 108CV
- Screw Vent Castable Abutment Non-Rotating with titanium screw
White - Precision Hex
3.5 mm diameter



- Ref.: 108AVB
- Screw Vent Castable Abutment Non-Rotating with titanium screw
Red - Conical Hex For Bar Connections
3.5 mm diameter



- Ref.: 108BRK
- Branemark Castable Abutment Rotating with titanium screw
3.75 mm - 4.0 mm diameter



- Ref.: 108BRK-NR
- Branemark Castable Abutment Non-Rotating with titanium screw
3.75 mm - 4.0 mm diameter



- Ref.: 108PE
- Pitt Easy Castable Abutment Non-Rotating with titanium screw
3.25 mm - 3.75 mm - 4.0 mm diameter



- Ref.: 108BFT
- Straumann ITI Castable Abutment - Rotating with titanium screw for bar connections



- Ref.: 113BFT
- Steel Transfer Abutment For Straumann ITI Implant with titanium screw



- Ref.: FA004
- Steel Analog For Straumann ITI Implant

Rhein83 manufactures castable abutments and titanium screws for most implant systems. For implant systems that are not listed in this catalog, please contact Rhein83 for additional information.



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Our mission is to offer to the professionals of the dental field, different quality solutions allowing to reach the patient's comfort and satisfaction regardless the different social and financial situations. This is possible to the precious support of our partners worldwide!

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Rhein83 USA branch is active in the area since the year 2000 by supporting the distribution in the entire country including different areas in Latin America. Rhein83 USA is located in New Rochelle (few minutes away from NYC), taking care of developing an intense program of formation with courses dedicated to dentists and dental technicians. Courses will allow the attendants to have CTD's credits with speakers members of the "National Board for Certification in Dental Laboratory Technology, Inc":