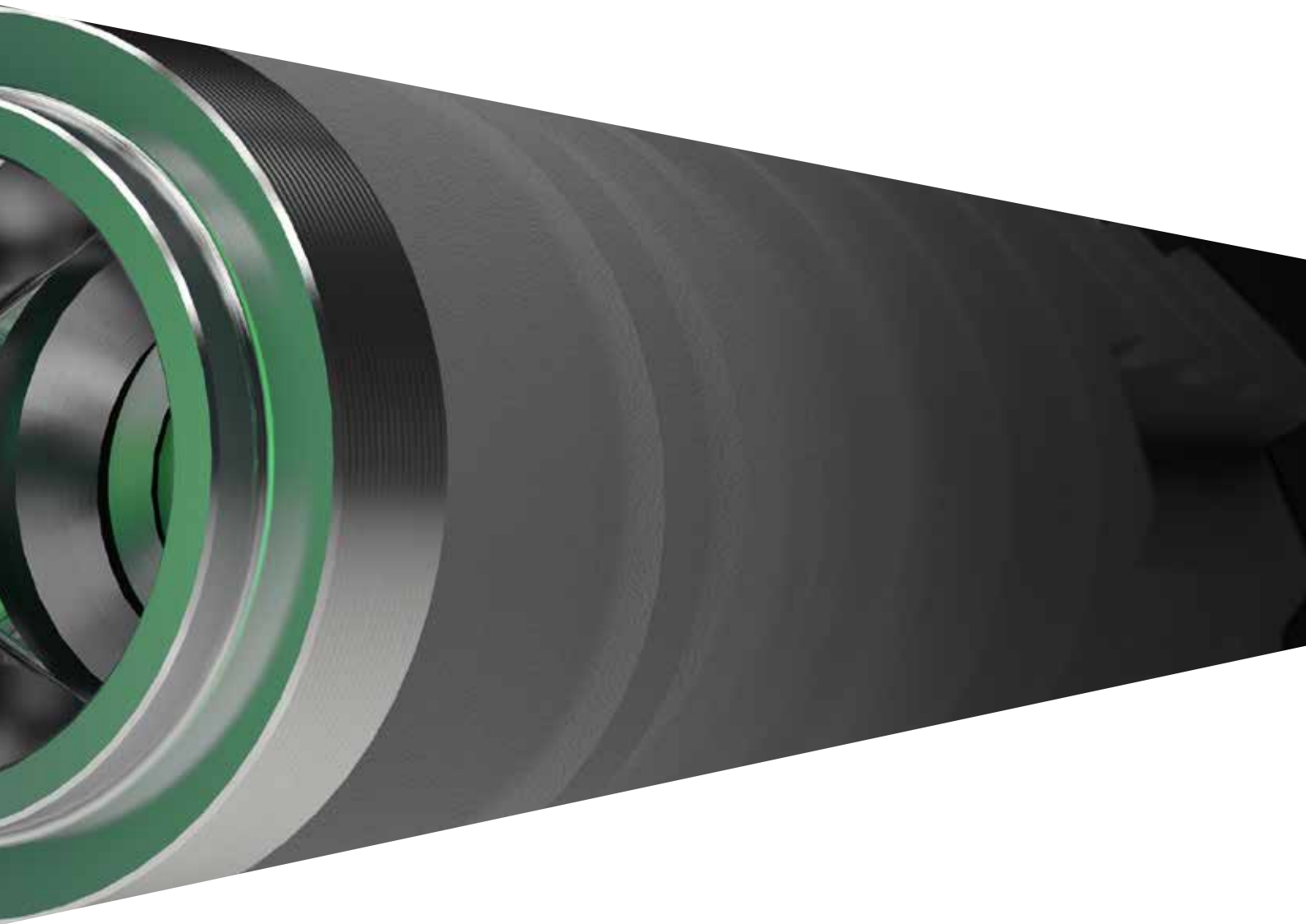
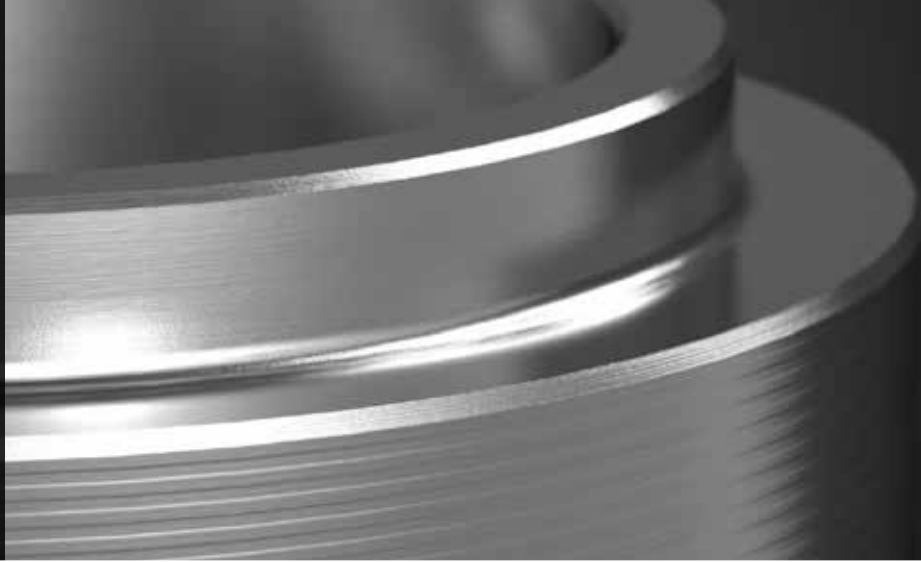


PREMIUM ONE



Unique Collex One connection

Internal hexagon and external collar for the prosthetic repositioning.



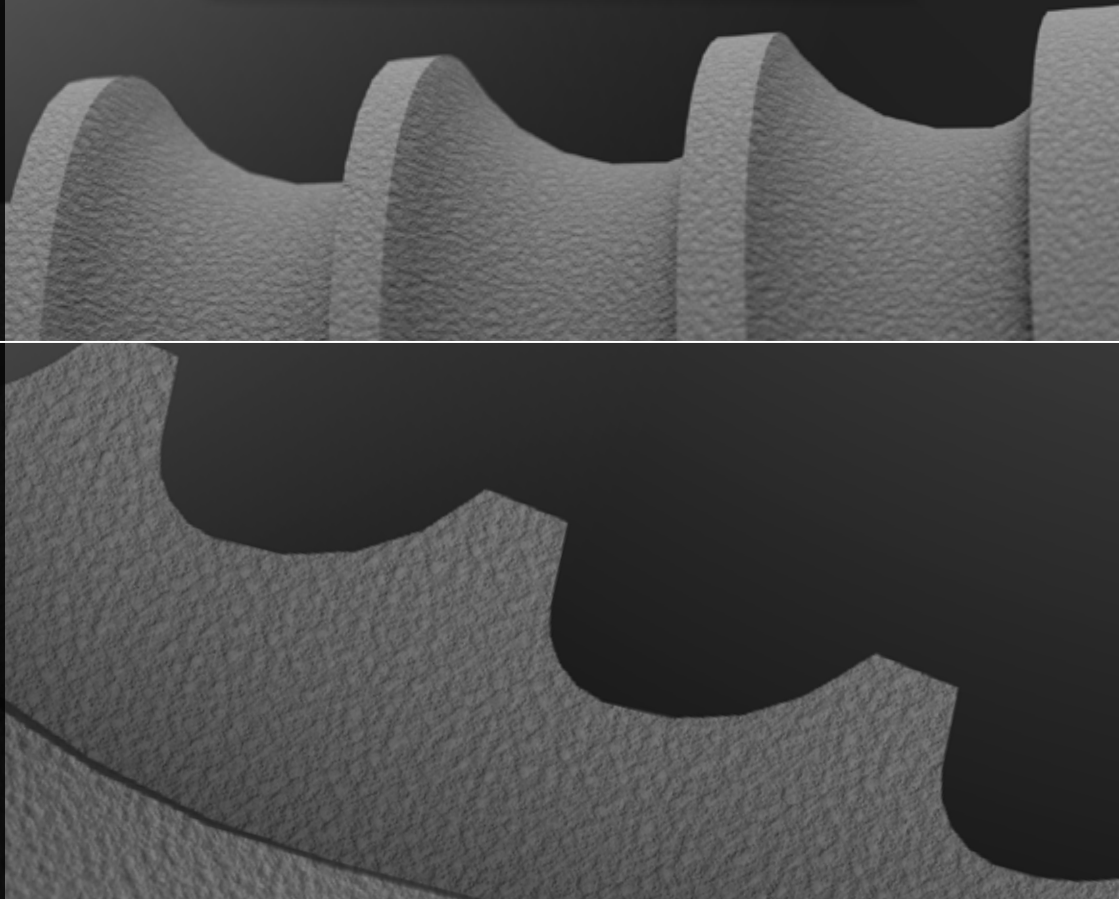
Cylindrical morphology

For a greater bone-to-implant contact area along all the implant body.

PREMIUM ONE
THE ANSWERS IN DETAIL

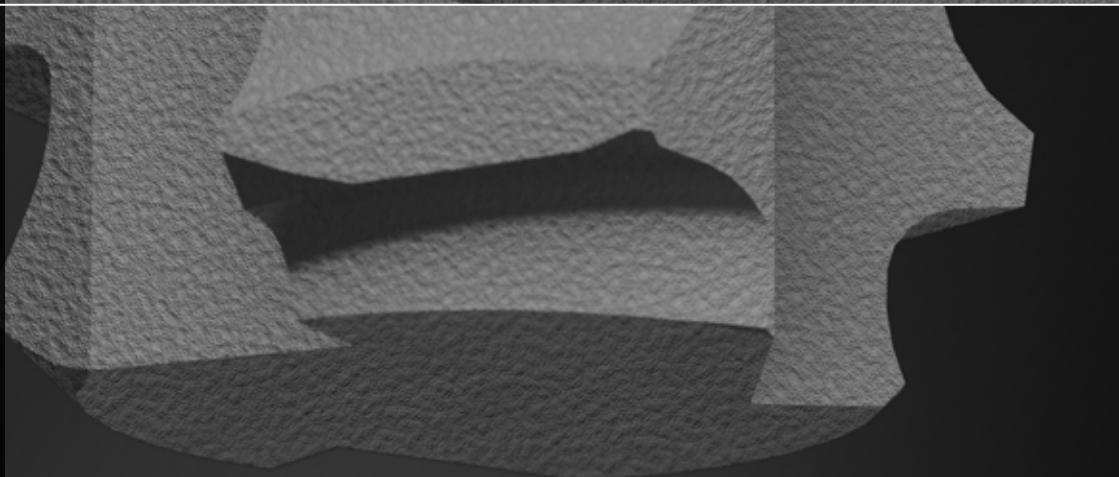
Asymmetrical thread

For a correct distribution of the masticatory loads.



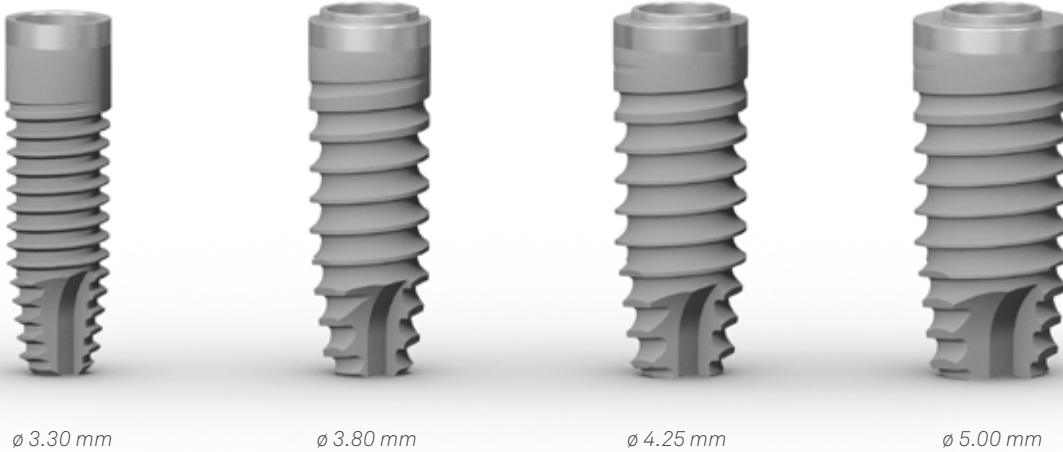
Tapered apex

Guarantees a good self-threading capacity, improves the primary stability and, with its three apical notches, offers a decompression and release area for blood clots.



Premium One

The cylindrical implant with 21 years of clinical success and more than 80 publications. All the Premium One implants have a thread with a pitch of 1.00 mm and a depth of 0.40 mm. The \varnothing 3.30 mm implant has a thread pitch of 0.60 mm and a triangular profile with an angle of 50° with a depth of 0.30 mm.



\varnothing 3.30 mm

\varnothing 3.80 mm

\varnothing 4.25 mm

\varnothing 5.00 mm

Shorty implants range

The Premium One implants are also available in the Shorty version, ideal for crests with reduced heights and in all the cases in which it is preferable not to carry out a regeneration protocol. A specific dedicated drilling kit is foreseen for the Shorty implants, including drills with reduced tips and shorter total length compared to the standard drills, very useful also in distal sections difficult to access, for patients with restricted mouth opening in delicate anatomical situations (e.g. near the alveolar nerve).



Short implants - Proceedings of the 4th Consensus Conference EAO (European Association for Osseointegration), presented in Stockholm in 2015:

“Considering the large number of complications, the greater morbidity, surgical costs and timing of the standard implants in lifted maxillary sinuses, the use of short dental implants can represent a preferable treatment option”.

Thoma D.S., Zeltner M., Hüsler J., Hämmerle C.H.F., Jung R.E. **Short implants versus sinus lifting with longer implants to restore the posterior maxilla: a systematic review** *Clin Oral Impl Res* 26 (Suppl. 6) 2015: 154-69

When the quantity of available bone is between 5 and 8 mm the use of short implants represents a valid alternative.

Range of Premium One heights

implant \varnothing	heights
3.30 mm	8.50 mm, 10.00 mm, 11.50 mm, 13.00 mm, 15.00 mm
3.80 mm	8.50 mm, 10.00 mm, 11.50 mm, 13.00 mm, 15.00 mm, 18.00 mm
4.25 mm	7.00 mm, 8.50 mm, 10.00 mm, 11.50 mm, 13.00 mm, 15.00 mm, 18.00 mm
5.00 mm	7.00 mm, 8.50 mm, 10.00 mm, 11.50 mm, 13.00 mm, 15.00 mm

UTM Surface

(Ultrathin Threaded Microsurface)

The neck of the Premium One implants is characterized by the UTM (Ultrathin Threaded Microsurface) surface treatment, a particular micro-threading that allows the perfect control over the connection diameter and prevents the accumulation of plaque around the junction with the post.

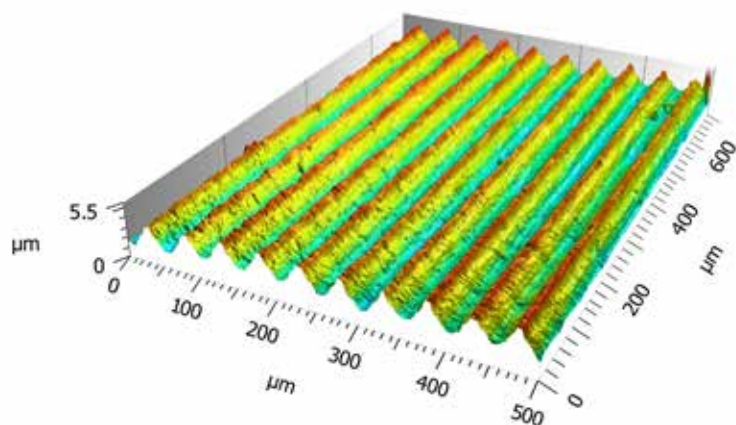
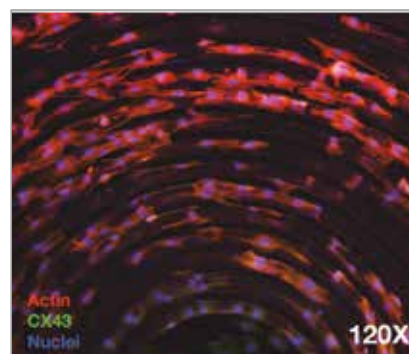
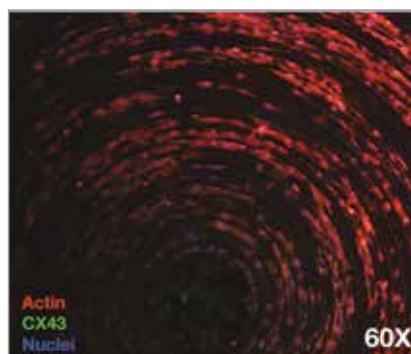
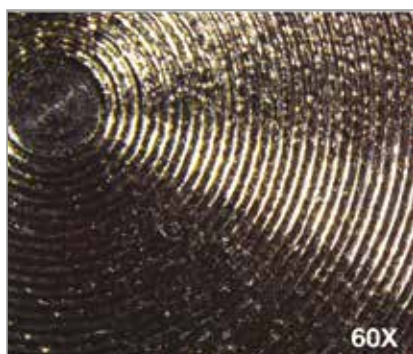
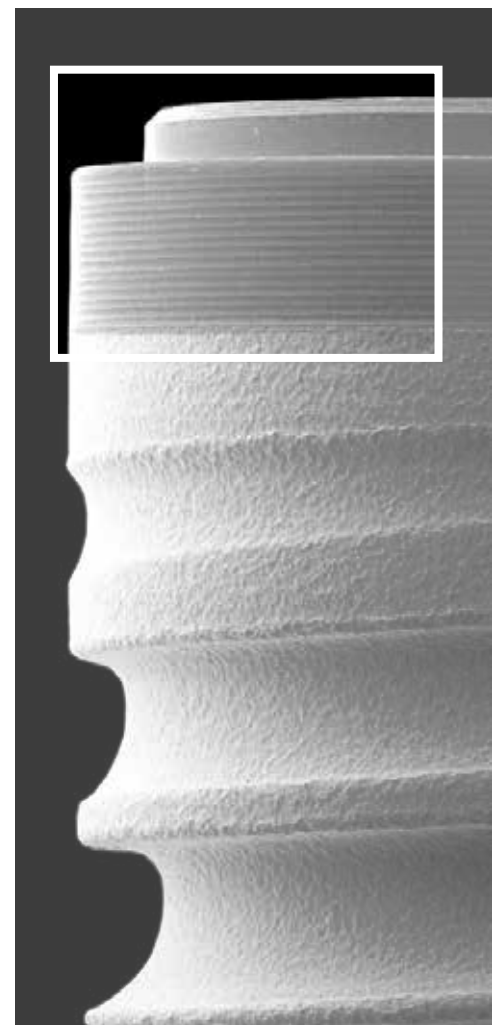


Image of a section of UTM surface obtained using a confocal microscope: the regularity of the micro-threading of the surface can be noted.

The micro-threading on the implant neck provides guidance for the unidirectional cell movement, with the biological benefit of rapid activity with low energy consumption, and the consequent clinical benefit of a faster healing process and a maintenance of healthy and stable tissues in the long term.

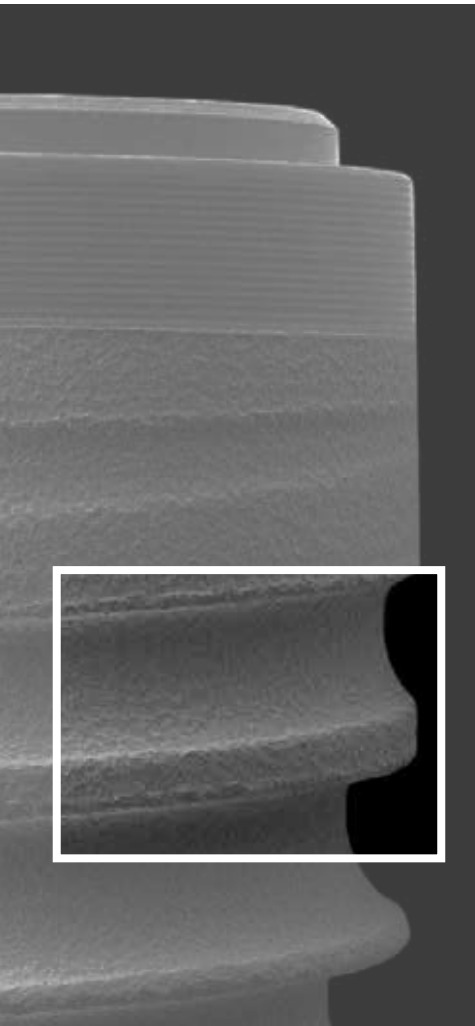


Arrangement of murine myofibroblasts on the UTM surface after 72 hours and observed with fluorescence microscopy - *in vitro* testing.

Thanks to the kind concession of the Dentistry Department of the University of Parma.

ZirTi Surface

(Zirconium Sand-Blasted Acid Etched Titanium)



Premium One implants are characterized by ZirTi surface, sand-blasted with zirconium oxide and etched with mineral acids, techniques that give to the surface a characteristic micromorphology capable of significantly increasing the bone-to-implant contact area and promoting osseointegration.

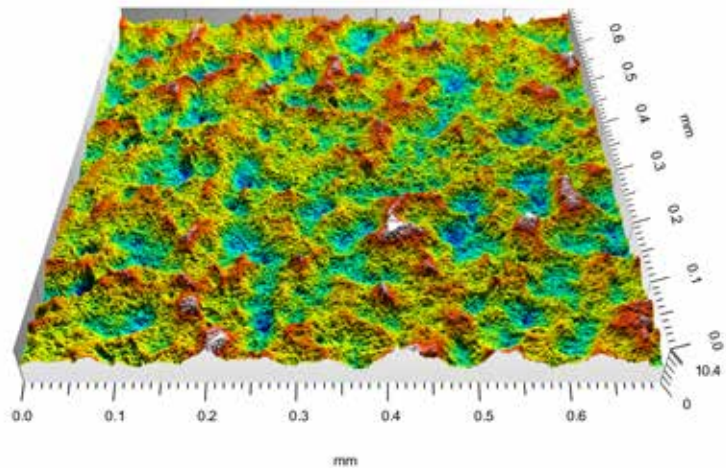


Image of a portion of ZirTi surface obtained using a confocal microscope: the micromorphology of the surface and the regularity of the bone picks deriving from sand-blasting and acid-etching can be noted.

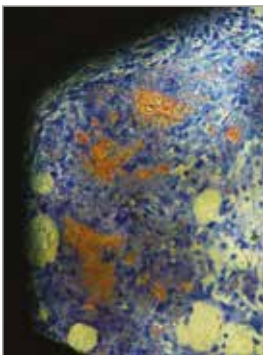
Roughness of the surfaces - Conclusions of the 2nd Consensus Conference EAO (European Association for Osseointegration), held in Monaco in 2009:

“This review concludes that rough and moderately rough surfaces support a correct osseointegration. The highest level of BIC is associated with moderately rough surfaces (Sa value between 1 and 2 μm).”

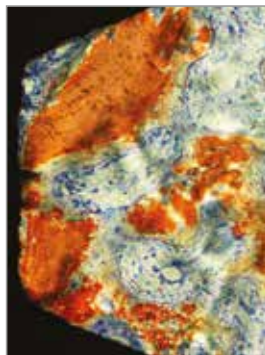
Wennerberg A., Albrektsson T.

Effects of titanium surface topography on bone integration: a systematic review
Clin Oral Implants Res. 2009 Sep;20 Suppl 4:172-84

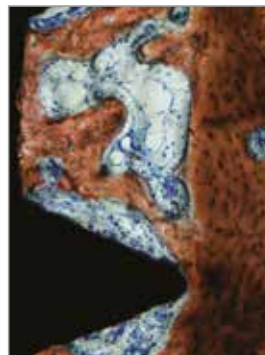
The roughness of ZirTi surface, with its Sa medium value of 1.3 μm , is considered ideal to achieve osseointegration.



5 days



10 days



20 days



30 days

Sequential healing at implants with ZirTi surface: the new bone can be noted just after 30 days.

Histologies by the kind courtesy of Dr. Daniele Botticelli (colored with Stevenel's blues and alizarin red).

Mainetti T., Lang N.P., Bengazi F., Favero V., Soto Cantero L., Botticelli D.

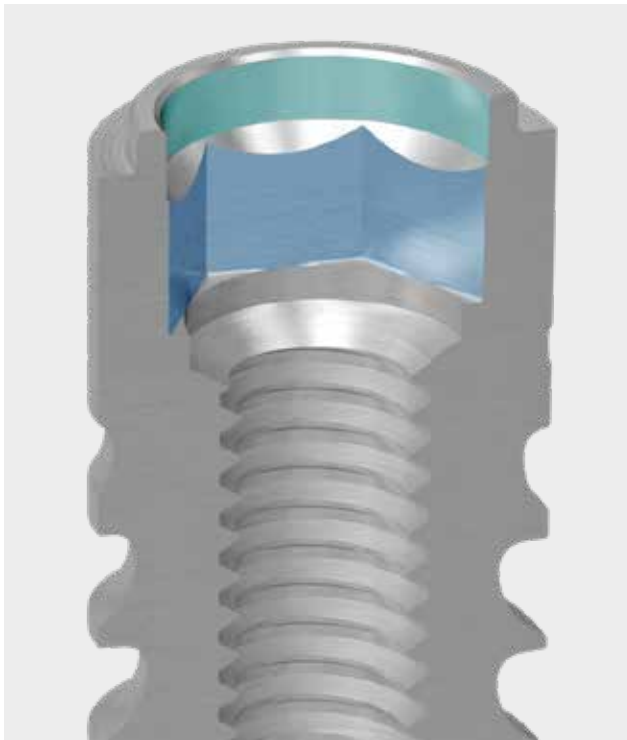
Sequential healing at implants installed immediately into extraction sockets. An experimental study in dogs

Clinical Oral Implant Research, 2016 Jan; 27(1): 130:138



Collex One connection

The connection platforms of the Premium One implants are characterized by the presence of an internal hexagon and the same collar for all the diameters (internal for \varnothing 3.30 mm implants, external for \varnothing 3.80, \varnothing 4.25 and \varnothing 5.00 implants), which allows to use the proper post according to the chosen prosthetic protocol. It is possible to obtain a Platform Switching using a post with smaller diameter.

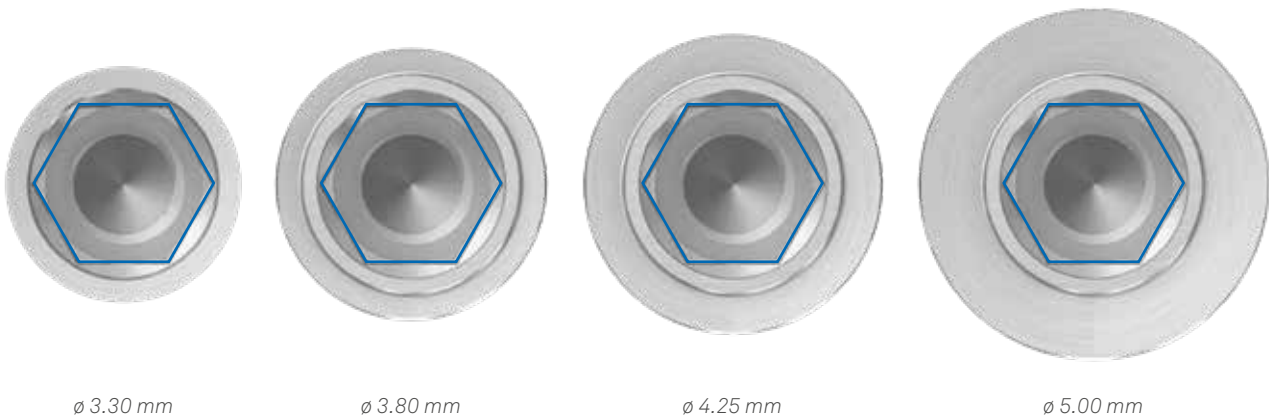


The strength properties of Collex One connection are documented by several studies in which Collex One connection proved better in terms of robustness and prosthetic stability compared to connections without collar.

Covani U., Ricci M., Tonelli P., Barone A.
An evaluation of new designs in implant-abutment connections: a finite element method assessment
Implant Dentistry Volume 22, Number 3 2013

Marchetti E., Ratta S., Mummolo S., Tecco S., Pecci R., Bedini R., Marzo G.
Evaluation of an Endosseous Oral Implant System According to UNI EN ISO 14801 Fatigue Test Protocol
Implant Dent 2014;0:1-7

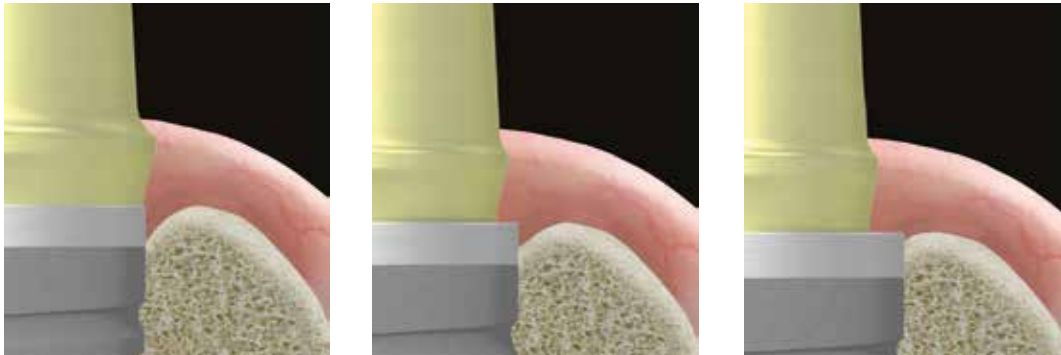
Premium One implants are available with **four different endosseous diameters with a unique connection**. The surgical and prosthetic phases are then simplified, as well as the optimization of the storage of the components both for the clinician and the laboratory.



The biologic advantage of Platform Switching

As demonstrated by literature, there is a relationship between the extension of Platform Switching (mismatching) and preservation of the marginal bone dimensions.

In fact, **the greater the mismatch, the greater the volumes of hard and soft tissues around the dental implant.** The undeniable advantage of one unique connection, which characterizes Premium One implants, is that it allows choosing the desired level of mismatching based on the aesthetic and functional needs of each individual case.

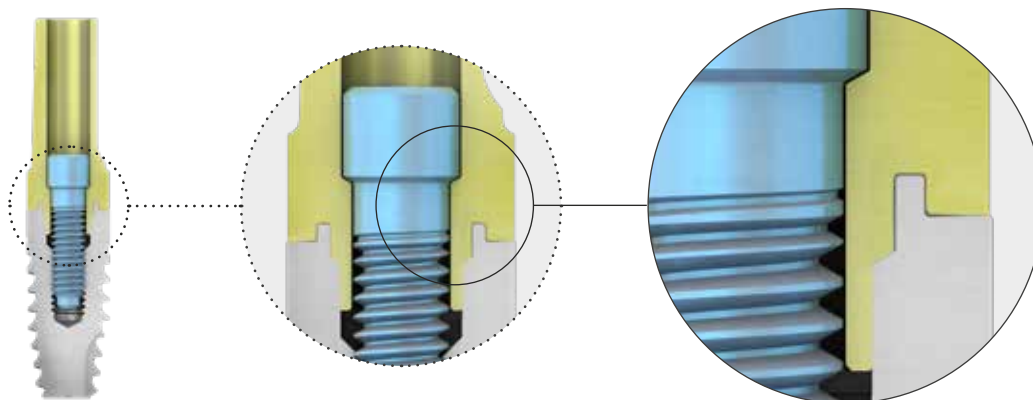


The validity of the application of the Platform Switching technique is documented by numerous experimental studies.



Contracone seal

One of the key factors in determining the success of an implant rehabilitation is the **absence of bacterial microleakage**; to achieve this aim there must be no spaces between the platform of the implant and the abutment's edge, where bacteria could penetrate and give rise to anaerobic proliferations which are dangerous for the peri-implant tissues.



Sweden & Martina has patented a **particular micromechanical process** which makes both the implant's and post's edges conical: in this way a mechanical barrier is created, which guarantees a peripheral seal that is able to reduce the access of bacteria and to preserve the peri-implant tissues against possible inflammations.

As all the Sweden & Martina systems, the Premium One implants are characterized by the Contracone seal.

Canullo L., Peñarrocha-Oltra D., Soldini C., Mazzocco F., Peñarrocha M.A., Covani U.

Microbiological assessment of the implant-abutment interface in different connections: cross-sectional study after 5 years of functional loading.

Clin. Oral Impl. Res. 00, 2014, 1–9 doi: 10.1111/clr.12383.

D'Ercole S., Tripodi D., Marzo G., Bernardi S., Continenza M.A., Piattelli A., Iaculli F., Mummolo S.

Microleakage of bacteria in different implant-abutment assemblies: an in vitro study

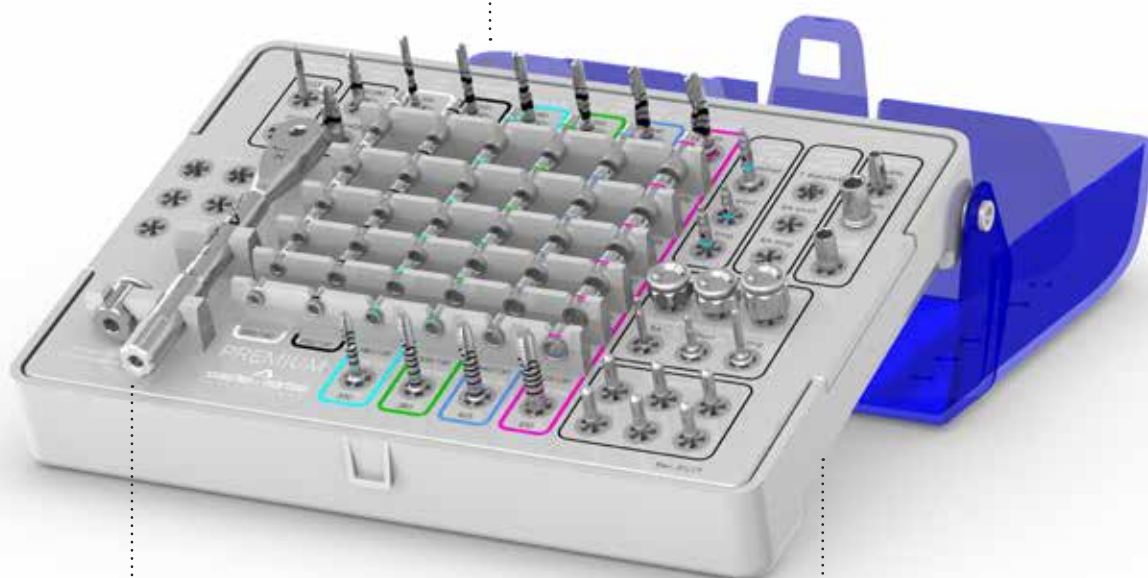
J Appl Biomater Funct Mater. 2014 Dec 19:0. doi: 10.5301

Premium One surgical kit

The Premium One surgical kit has been designed and made to offer **ease of use and optimal organization for the replacement of instruments in the surgical sequence.**

The instruments, all made of steel for surgical use, have their descriptions screen-printed on the tray to allow the user to identify each instrument more easily and to put it back after the cleansing and cleaning phases, with the aid of a colour code system that traces the suitable surgical procedures for the various implant diameters.

The compact dimensions of the kit make it very practical for everyday use and in transport

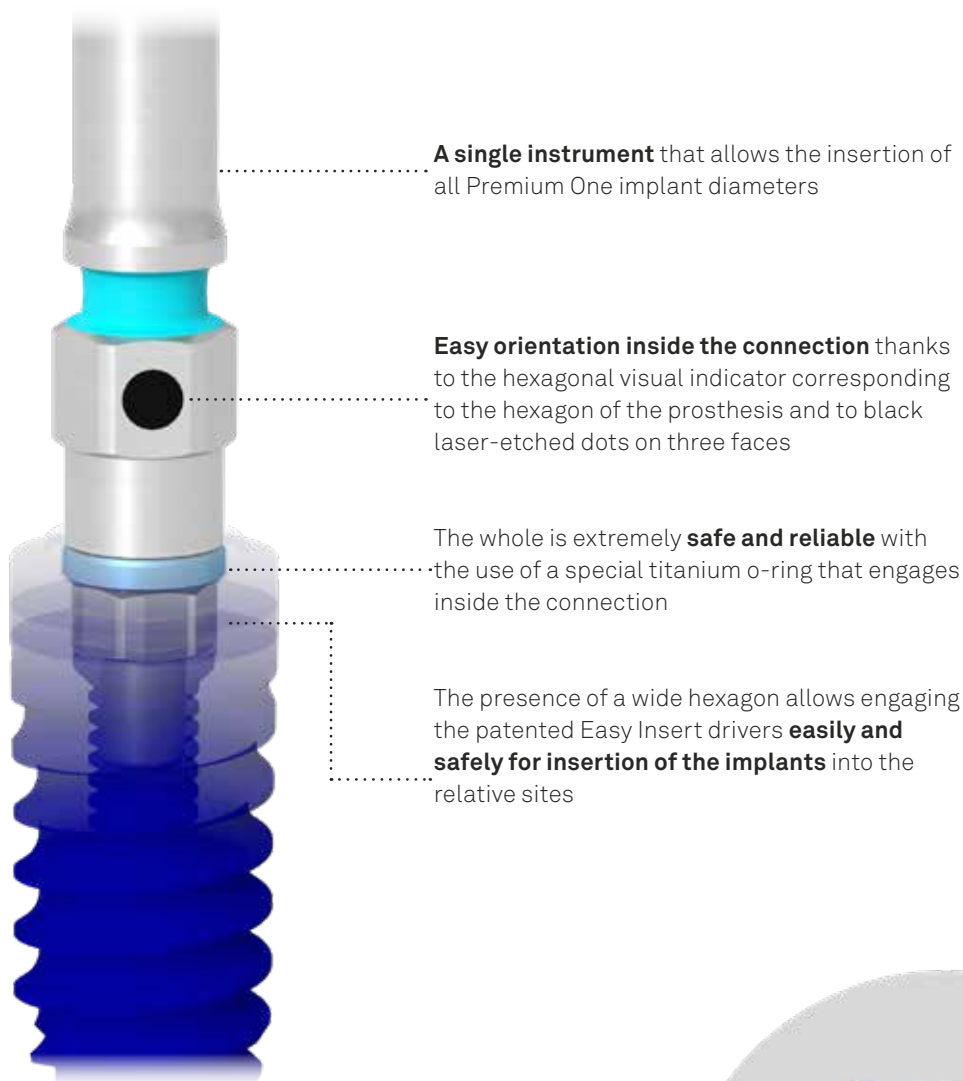


A **practical ratchet** is also included that acts as a dynamometric key for checking the torque of the prosthetic screws and as a surgical key for inserting the implants

The kit consists of a practical box in Radel with a **grommetless surgical tray** inside that is set-up to hold the instruments according to an established procedure. The sequences of use of the instruments are indicated by coloured marks

Easy Insert driver

Premium One implants do not require a mounter device because they can be engaged directly inside the connection by practical **Easy Insert drivers**, designed **to guarantee a safe grip, to prevent deformations** to connections and at the same time **to allow easy removal from the internal part of the implant connection**. The use of these drivers makes the surgical procedure of insertion extremely predictable.



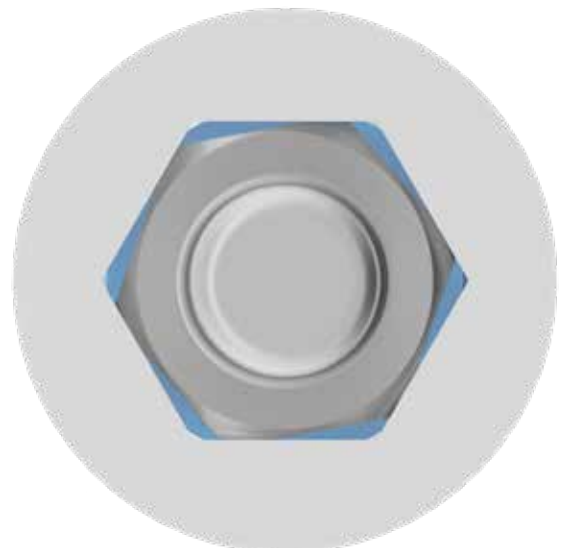
A single instrument that allows the insertion of all Premium One implant diameters

Easy orientation inside the connection thanks to the hexagonal visual indicator corresponding to the hexagon of the prosthesis and to black laser-etched dots on three faces

The whole is extremely **safe and reliable** with the use of a special titanium o-ring that engages inside the connection

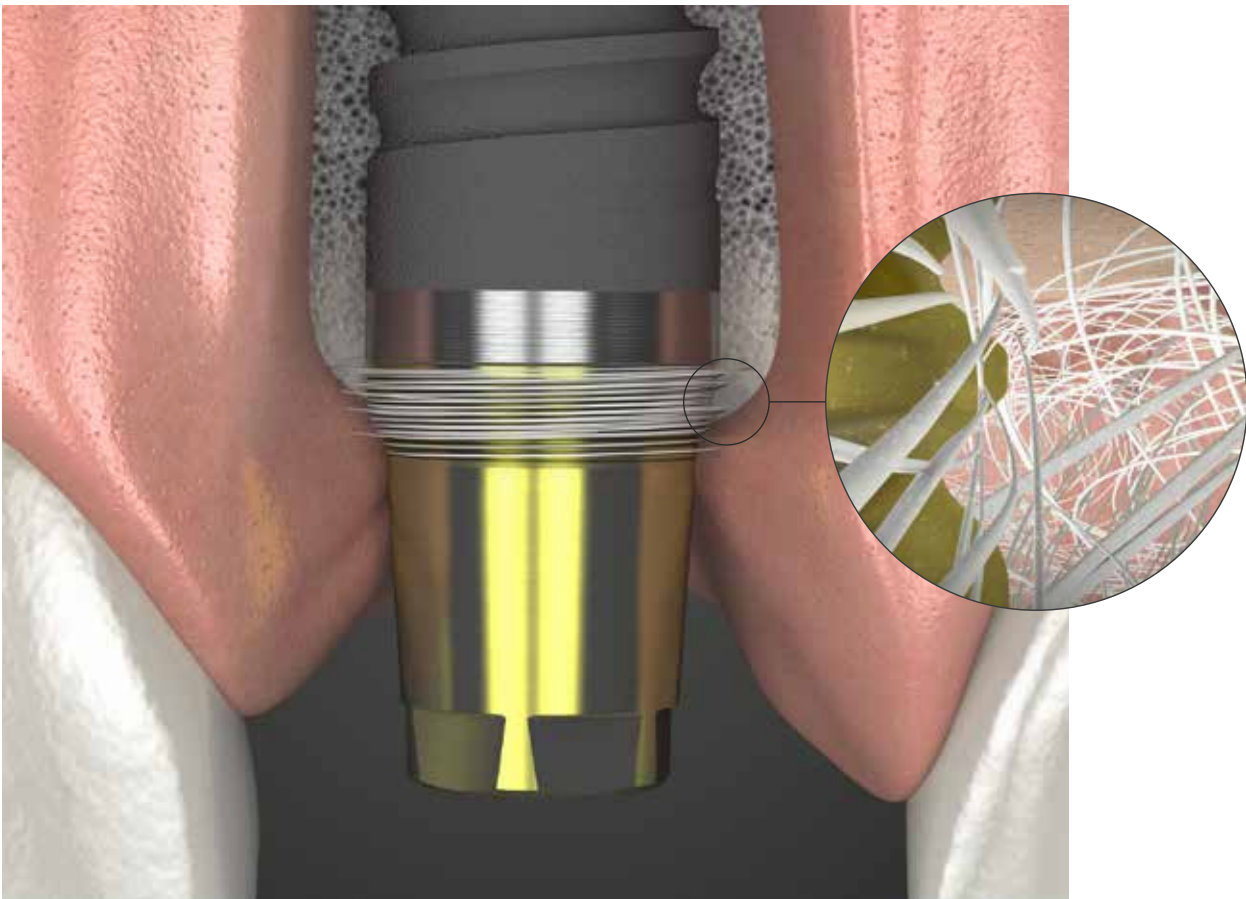
The presence of a wide hexagon allows engaging the patented Easy Insert drivers **easily and safely for insertion of the implants** into the relative sites

The special patented design of Easy Insert drivers prevents deformations of the implant connection and ensures that the faces (and not the corners) of the instrument make contact with the faces of the implant hexagon. The dodecagonal design of the drivers **prevents deformations to the implant connection, thus guaranteeing extremely high prosthetic stability and precision.**



The conical revolution

It has been shown that the morphology of the implant prosthetic portion in direct contact with the soft tissues plays an extremely important role in the quality of the healing of the tissues themselves. The **XA prosthetic range** has been specifically designed to **guide and thicken the connective tissue** improving the biotype. Firstly, the space created between the crown, the post, the soft tissue and the bone delimits an area where a greater quantity of collagen will form, increasing the thickness of the tissues and preserving the bone (Chamber Concept, Degidi IJPRD 2013). Moreover the presence of the micro-threads at the base of the **post stimulate the production of collagen** (Contact Guidance Concept, Brunette IJOMI 1998 & Guillem Martí COIR 2012). In addition to this the **Platform Switching** between implant and abutment, together with the **conical shape of the posts**, facilitates the **stabilization of the circular fibers of the connective tissue at a more coronal level** compared with a standard rehabilitation (Rodríguez, Vela IJOMI 2011; Rodríguez, Vela IJPRD 2016). Stabilization that determines the bone level around the implant, that will maintain itself over time.



The morphology of the XA posts without finish line gives the great advantage of attaching the post when it is exposed in the oral cavity, applying the **One Abutment-One Time** concept thus avoiding subsequent disconnections during the prosthetic phase, that may jeopardize its final successful outcome.

The clinical benefits of using the XA posts are clear both from an aesthetic perspective, with thick and healthy tissues, and from a functional perspective, as the newly formed bone tissue around the implant provides stable integration, giving strength and support to the rehabilitation.

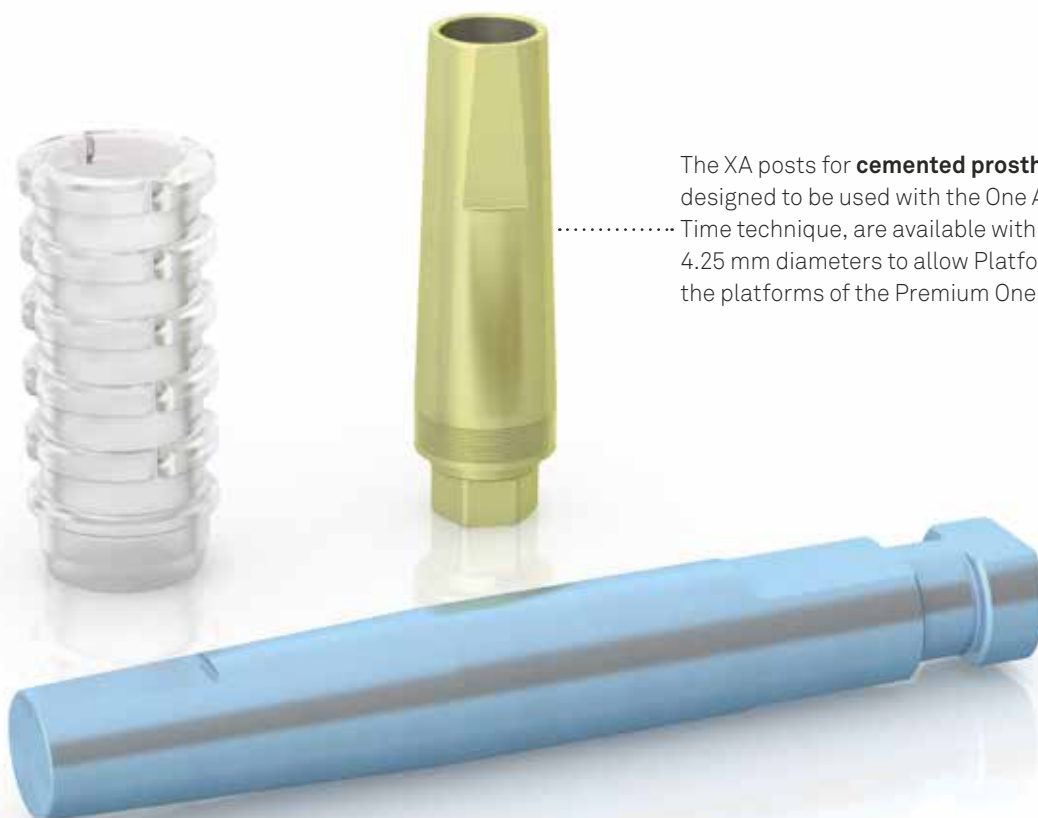


Pre-made XA posts

These posts, produced in Gr. 5 titanium, are available in two versions, one for cemented prosthesis and one for screw-retained prosthesis.



The XA posts for **screw-retained prosthesis** have been designed for the **One Abutment-One Time** technique, that foresees their connection to the implants in the patient's mouth never to be removed. Their morphology and their positioning can be accurately reproduced in a laboratory thanks to the dedicated transfers and analogs.



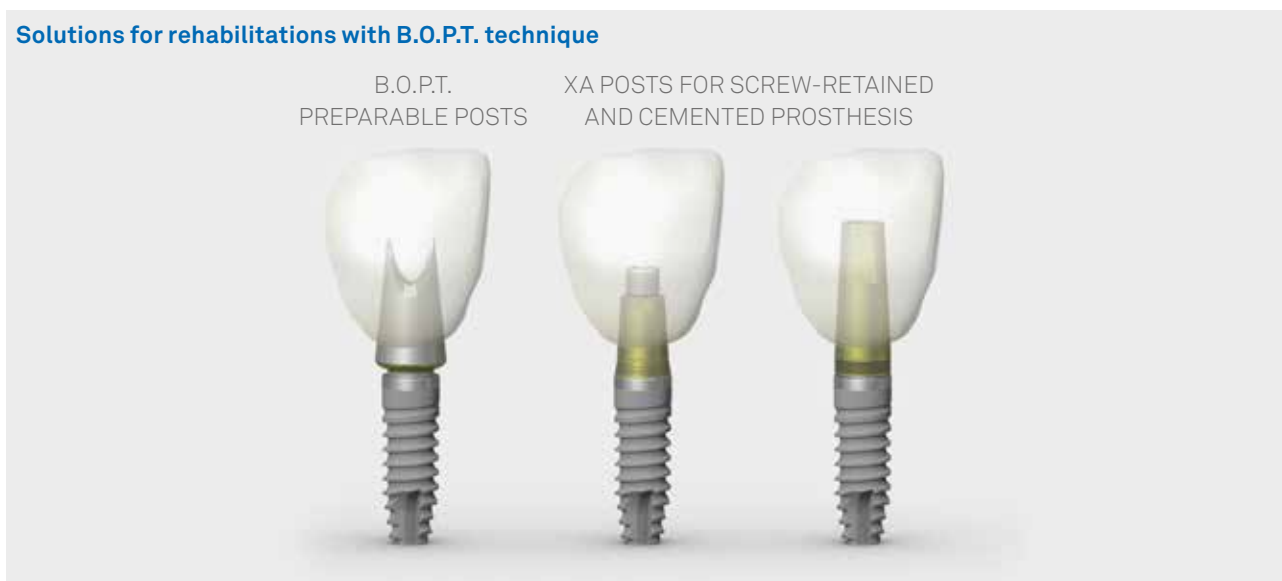
The XA posts for **cemented prosthesis**, also designed to be used with the One Abutment-One Time technique, are available with 3.30, 3.80 and 4.25 mm diameters to allow Platform Switching on the platforms of the Premium One implant.

Wide range of prosthetic solutions

Solutions for impression taking, model and tissue conditioning phase



Solutions for rehabilitations with B.O.P.T. technique



Solutions for single and multiple cemented rehabilitations



Solutions for single screw-retained rehabilitations



Solutions for bridges and full-arch rehabilitations

P.A.D. ABUTMENTS
(Disparallel Screwed Prosthesis)



PLAIN
ABUTMENTS



Multiple screw-retained solutions

CASTABLE
POSTS



DYNAMIC
ABUTMENTS



Solutions for conometric prosthesis

CONOWELD
PROSTHESIS



Solutions for overdentures

LOCATOR
ABUTMENTS



BALL
ATTACHMENTS



Solutions for custom-made rehabilitations with CAD CAM technique

LABORATORY AND INTRAORAL
SCANBODIES



T-CONNECT
SUPPORTS



CUSTOM-MADE ECHO
PROSTHESIS



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