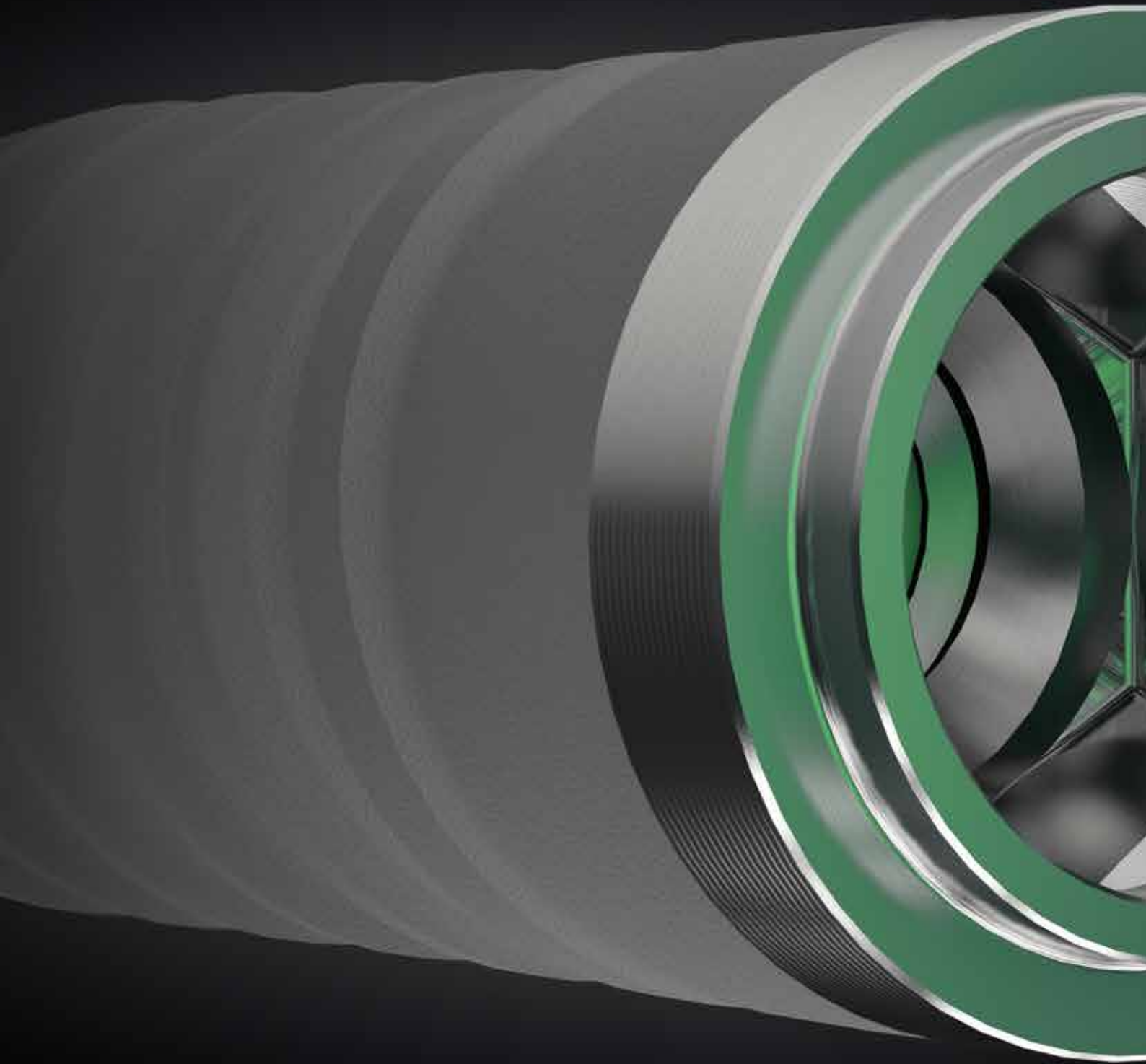


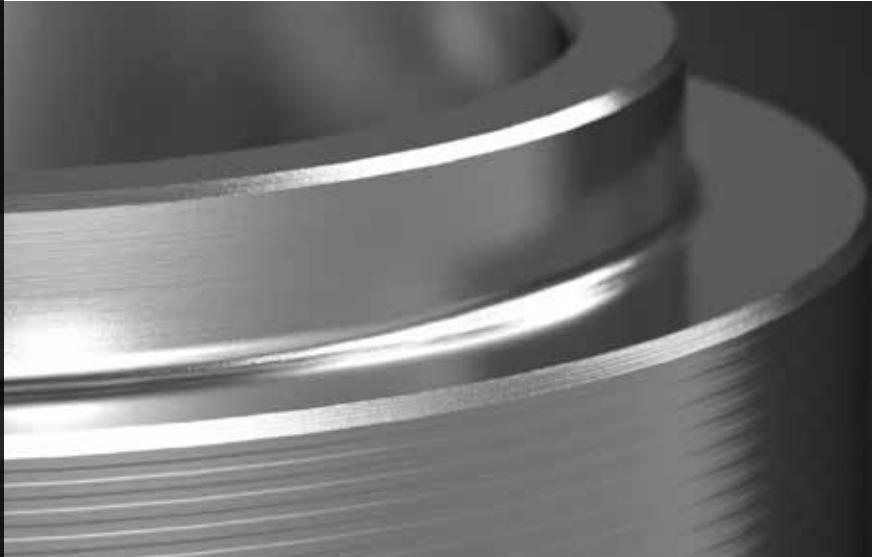
PREMIUM ONE




sweden & martina

Unique Collex One connection

Internal hexagon and external collar for the prosthetic repositioning.



Cylindrical morphology

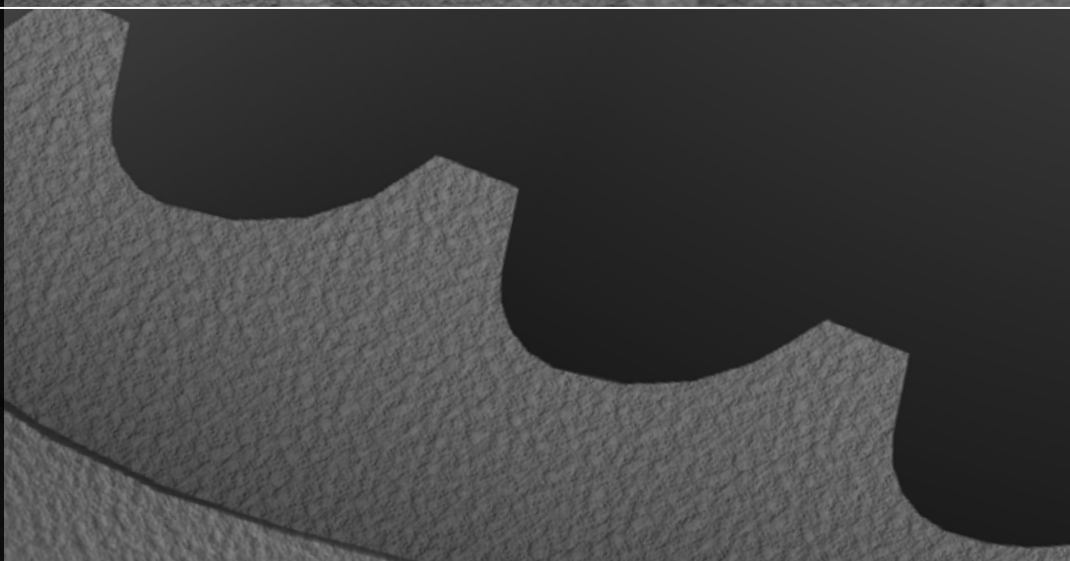
For a greater bone-to-implant contact area along all the implant body.



PREMIUM ONE
THE ANSWERS IN DETAIL

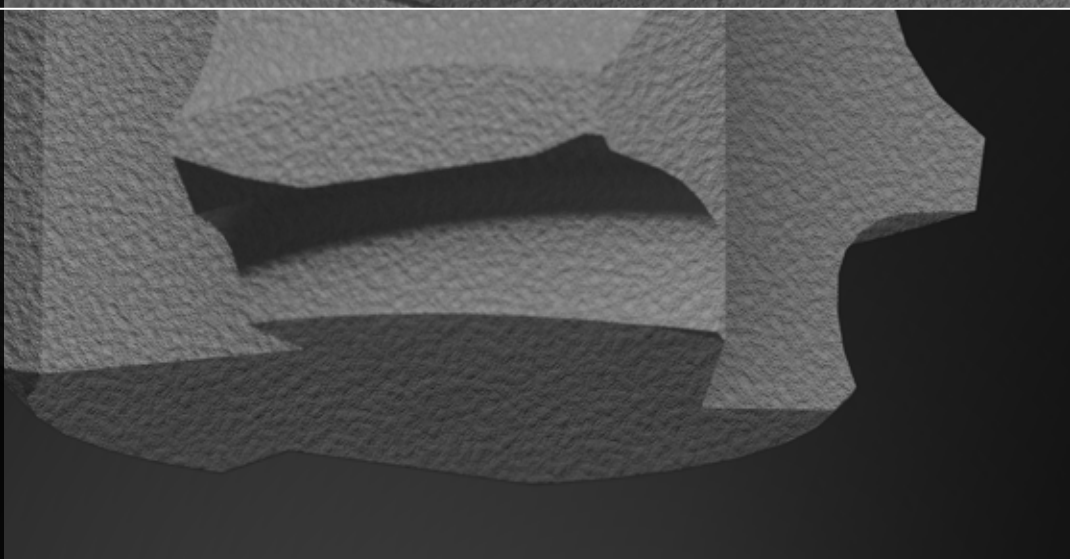
Asymmetrical thread

For a correct distribution of the masticatory loads.



Tapered apex

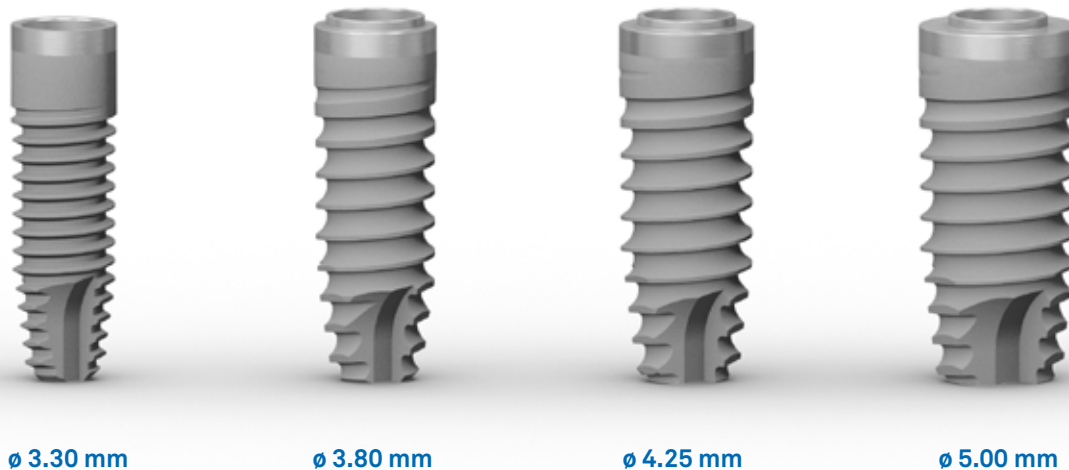
Guarantees a good self-threading capacity, improves the primary stability and, with its three apical notches, offers a decompression and release area for blood clots.



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.



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

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

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

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.

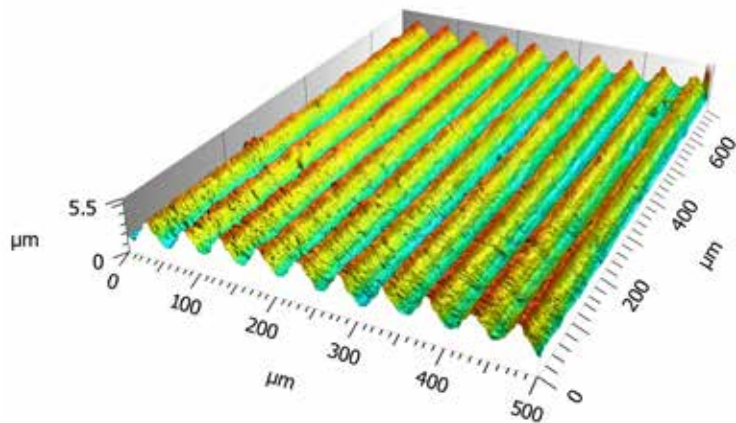
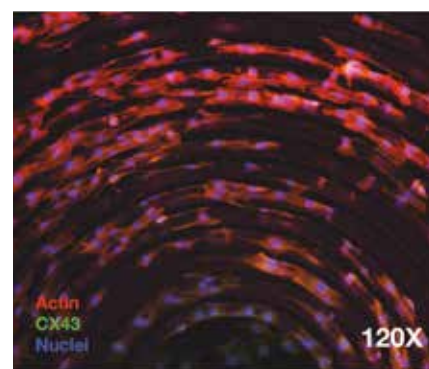
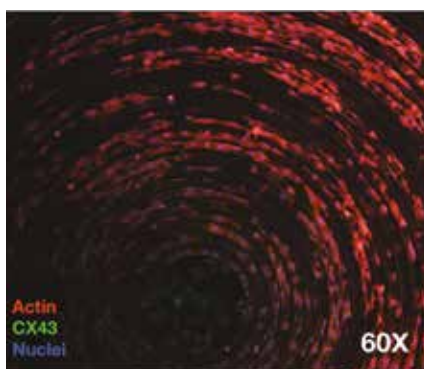
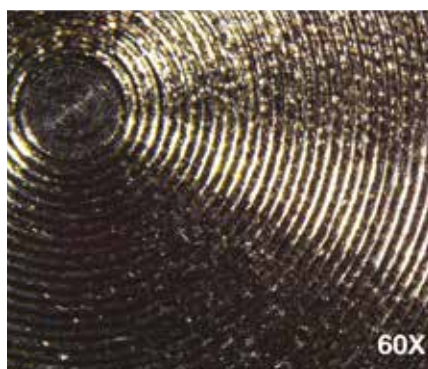
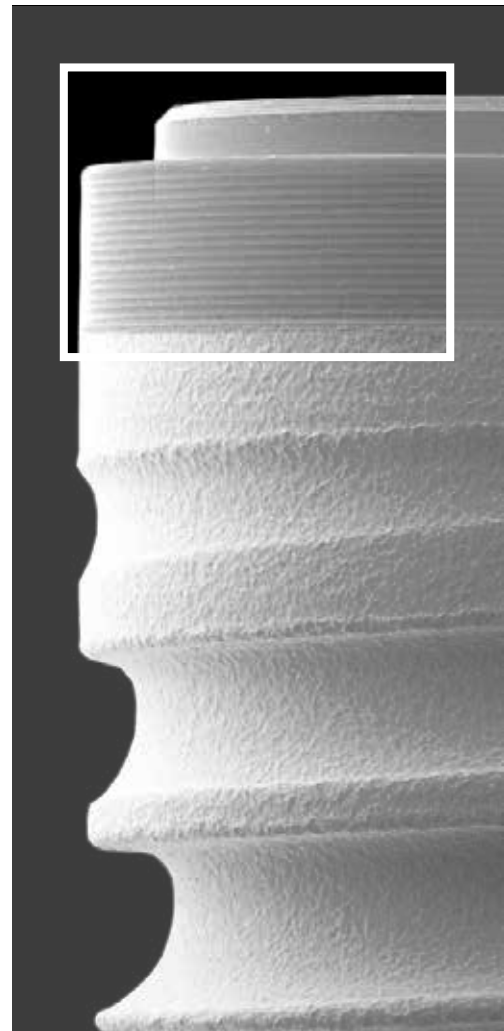


Image of a section of UTM surface obtained using a confocal microscope: the regularity of the micro-threading of the surface can be noted.

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.

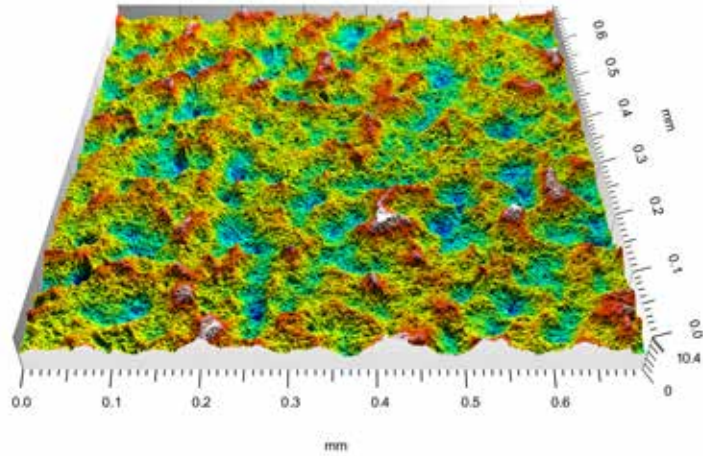
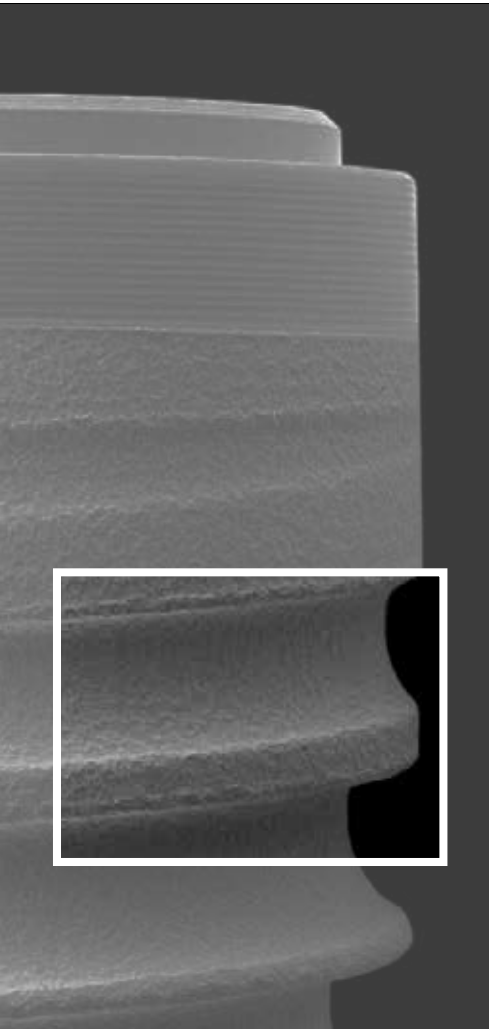


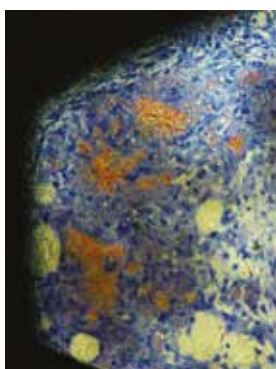
Image of a portion of ZirTi surface obtained using a confocal microscope: the micromorphology of the surface and the regularity of the bone picks deriving from sand-blasting and acid-etching can be noted.

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

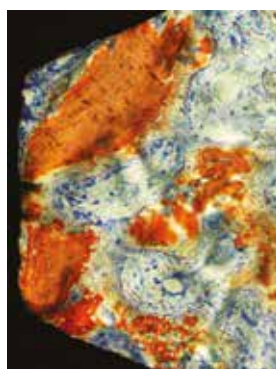
“This review concludes that rough and moderately rough surfaces support a correct osseointegration. The highest level of BIC is associated with moderately rough surfaces (Sa value between 1 and 2 μm).”

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

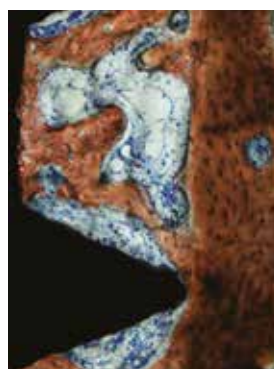
The roughness of ZirTi surface, with its Sa medium value of 1.3 μm , is considered ideal to achieve osseointegration.



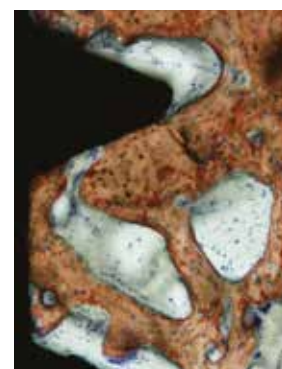
5 days



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).

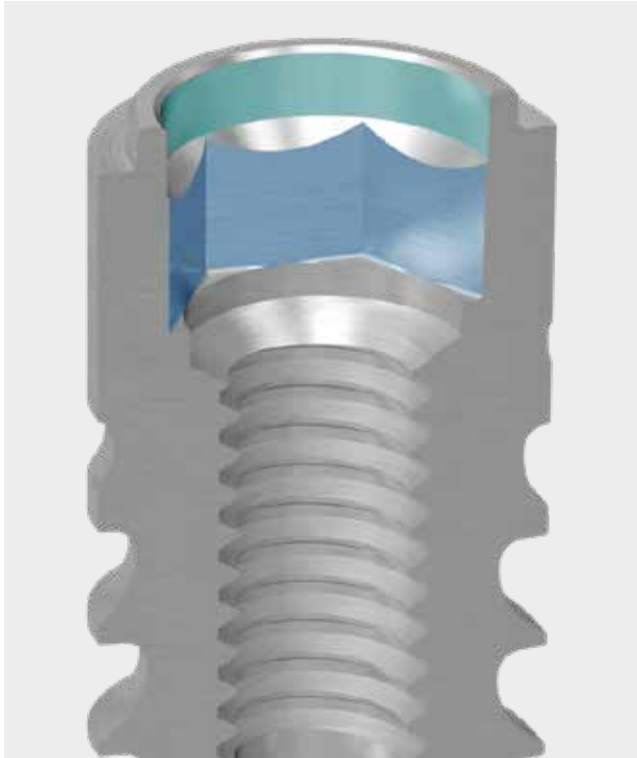
Mainetti T, Lang NP, Bengazi F, Favero V, Soto Cantero L, Botticelli D
Sequential healing at implants installed immediately into extraction sockets. An experimental study in dogs
Clinical Oral Implant Research, 2016 Jan; 27(1): 130:138

The validity of ZirTi surface is documented by numerous experimental and clinical studies.



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.

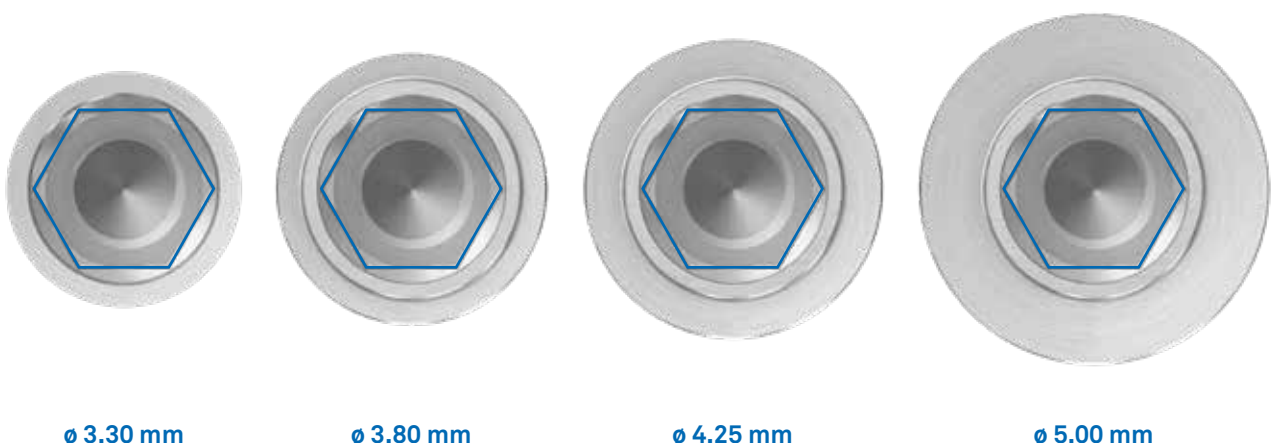


The strength properties of Collex One connection are documented by several studies in which Collex One connection proved better in terms of robustness and prosthetic stability compared to connections without collar.

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

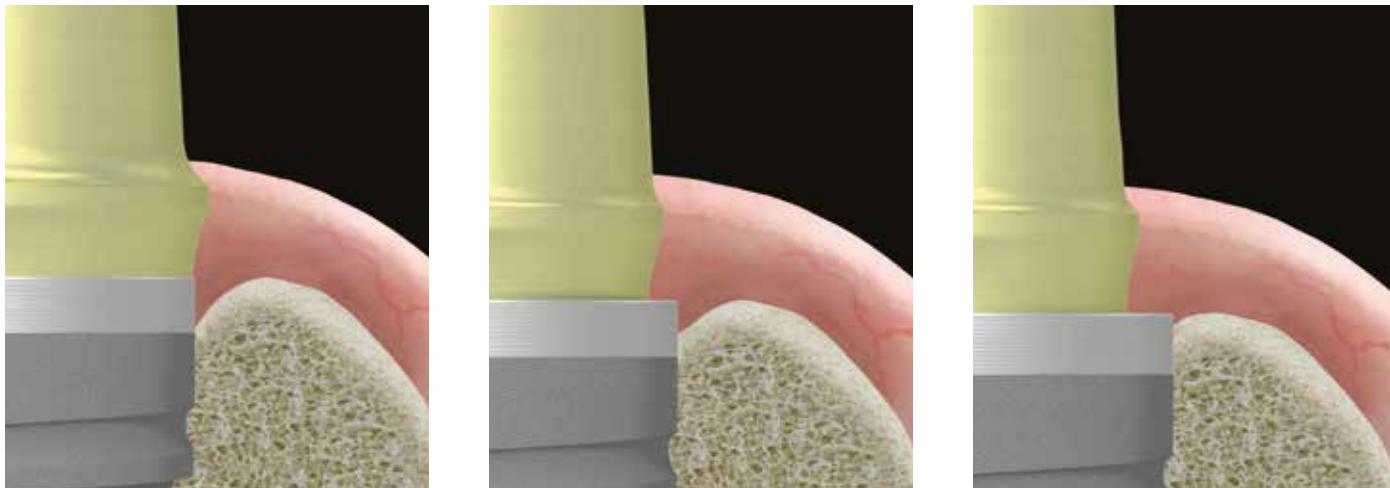
Marchetti E., Ratta S., Mummolo S., Tecco S., Pecci R., Bedini R., Marzo G.
Evaluation of an Endosseous Oral Implant System According to UNI EN ISO 14801 Fatigue Test Protocol
Implant Dent 2014;0:1-7

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.

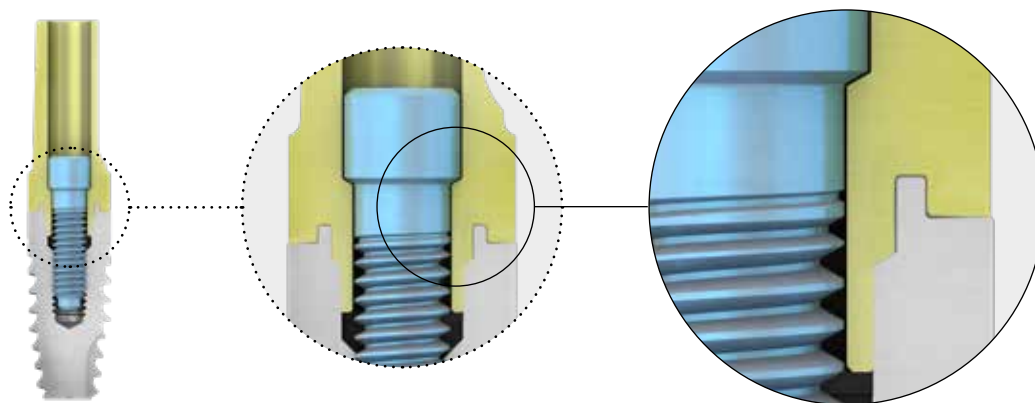


The validity of the application of the Platform Switching technique is documented by numerous experimental studies.



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 MA, 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 MA, 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 kits

The following surgical kits are projected to offer ease of use and immediacy in the sequence of the instruments. All instruments are made with steel for surgical use and have descriptions on the tray. This allows the user to identify each instrument more easily and to reposition it after the cleaning phases, with the aid of a colour-coding system that traces the surgical procedures suitable for the various implant diameters.

Premium One surgical kit



Drilling kit for short Premium One implants



Premium One and Shelta surgical kit

Surgical kit to insert Premium One and Shelta implants



Premium Kohno One surgical kit

Surgical kit to insert Premium One and Kohno One implants



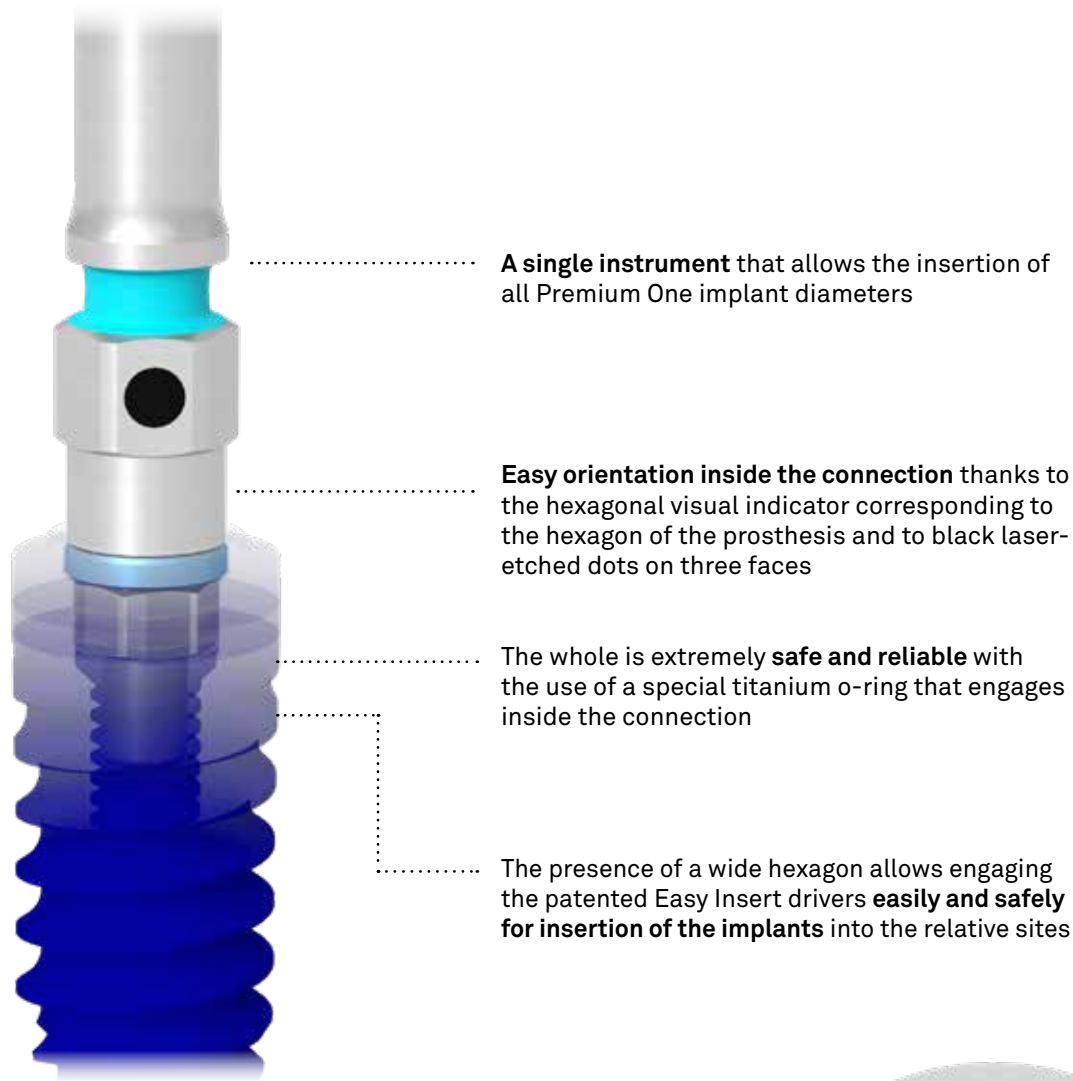
Premium One guided surgery surgical kit

Complete surgical kit for the guided surgery insertion of Premium One and Shelta implants

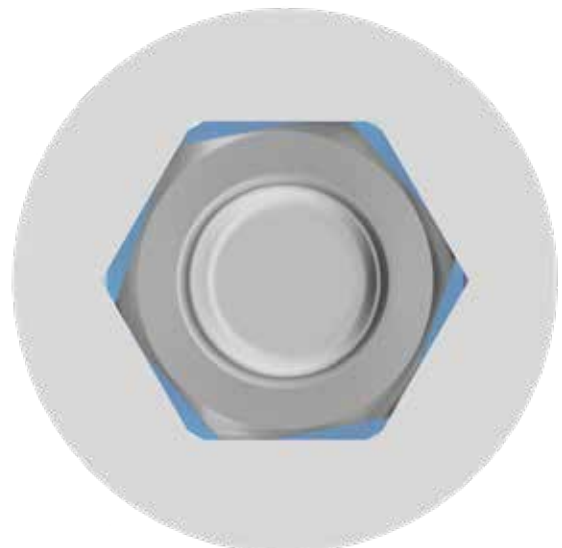


Easy Insert driver

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.

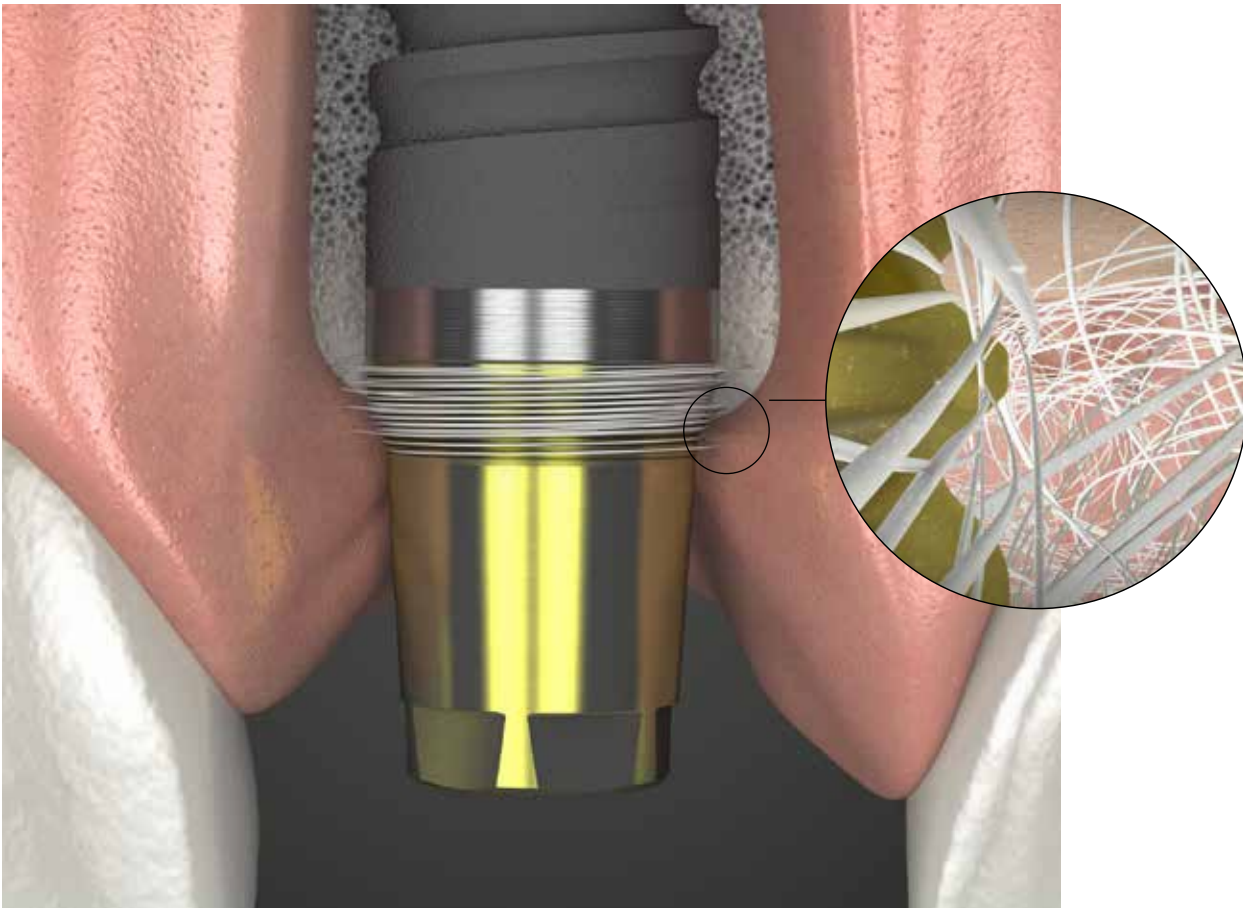


The special patented design of Easy Insert drivers prevents deformations of the implant connection and ensures that the faces (and not the corners) of the instrument make contact with the faces of the implant hexagon. The dodecagonal design of the drivers **prevents deformations to the implant connection,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



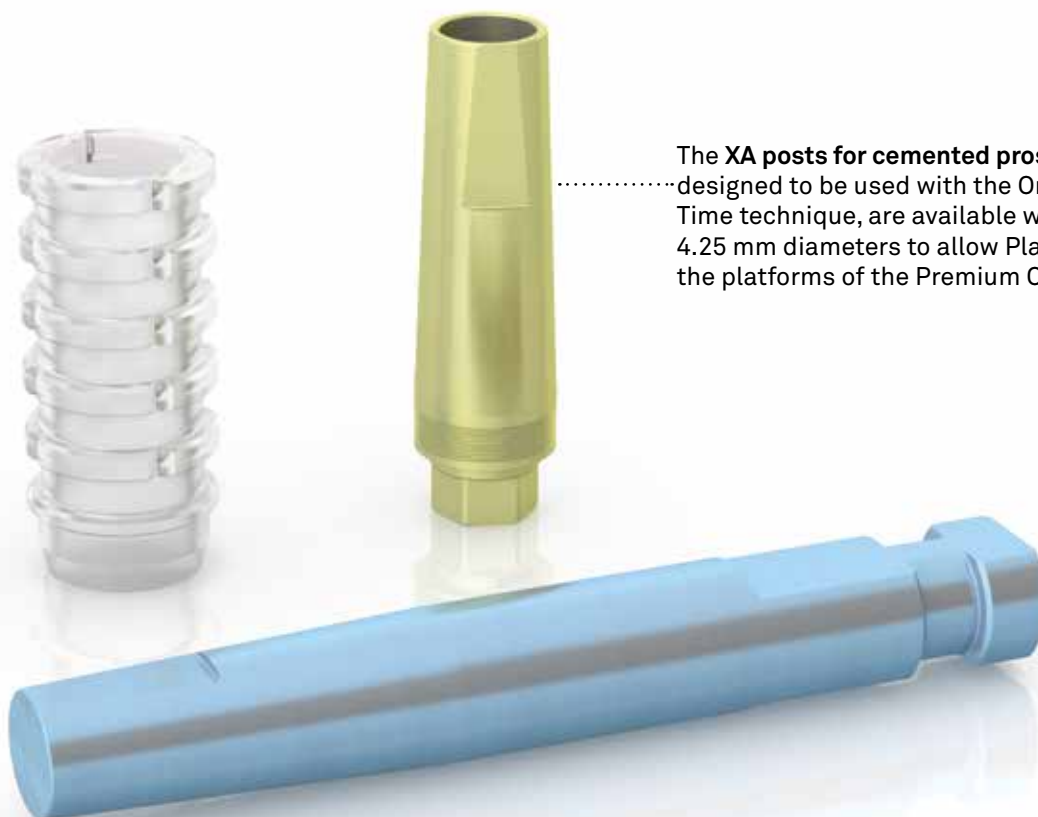
The validity of the XA concept is documented by numerous experimental and clinical studies.

XA range of prostheses

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. This solutions have a connection hexagon, a fixation screw and are repositionable in the implant. In this way the repositioning of the crown on the abutment becomes unique and predictable.



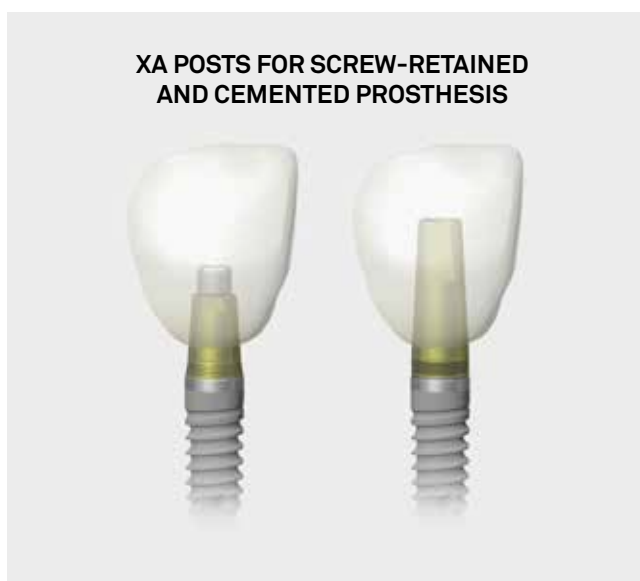
The **XA posts for cemented prosthesis**, also designed to be used with the **One Abutment-One Time** technique, are available with 3.30, 3.80 and 4.25 mm diameters to allow Platform Switching on the platforms of the Premium One implant.

Wide range of prosthetic solutions

Solutions for impression taking, model and tissue conditioning phase



Solutions for rehabilitations with vertical technique



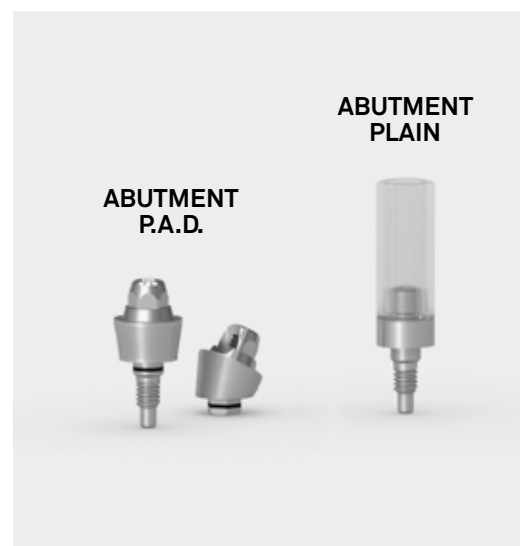
Solutions for single screw-retained rehabilitations



Solutions for single and multiple cemented rehabilitations



Solutions for bridges and full-arch



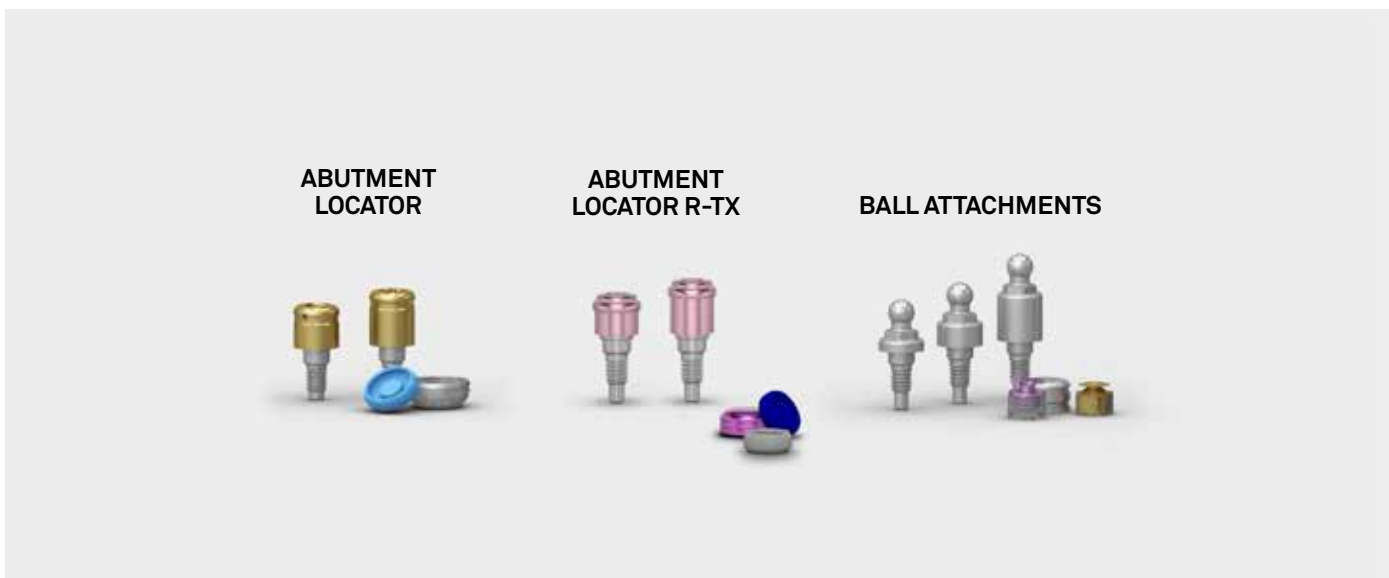
Multiple screw-retained solutions



Solutions for conometric prosthesis



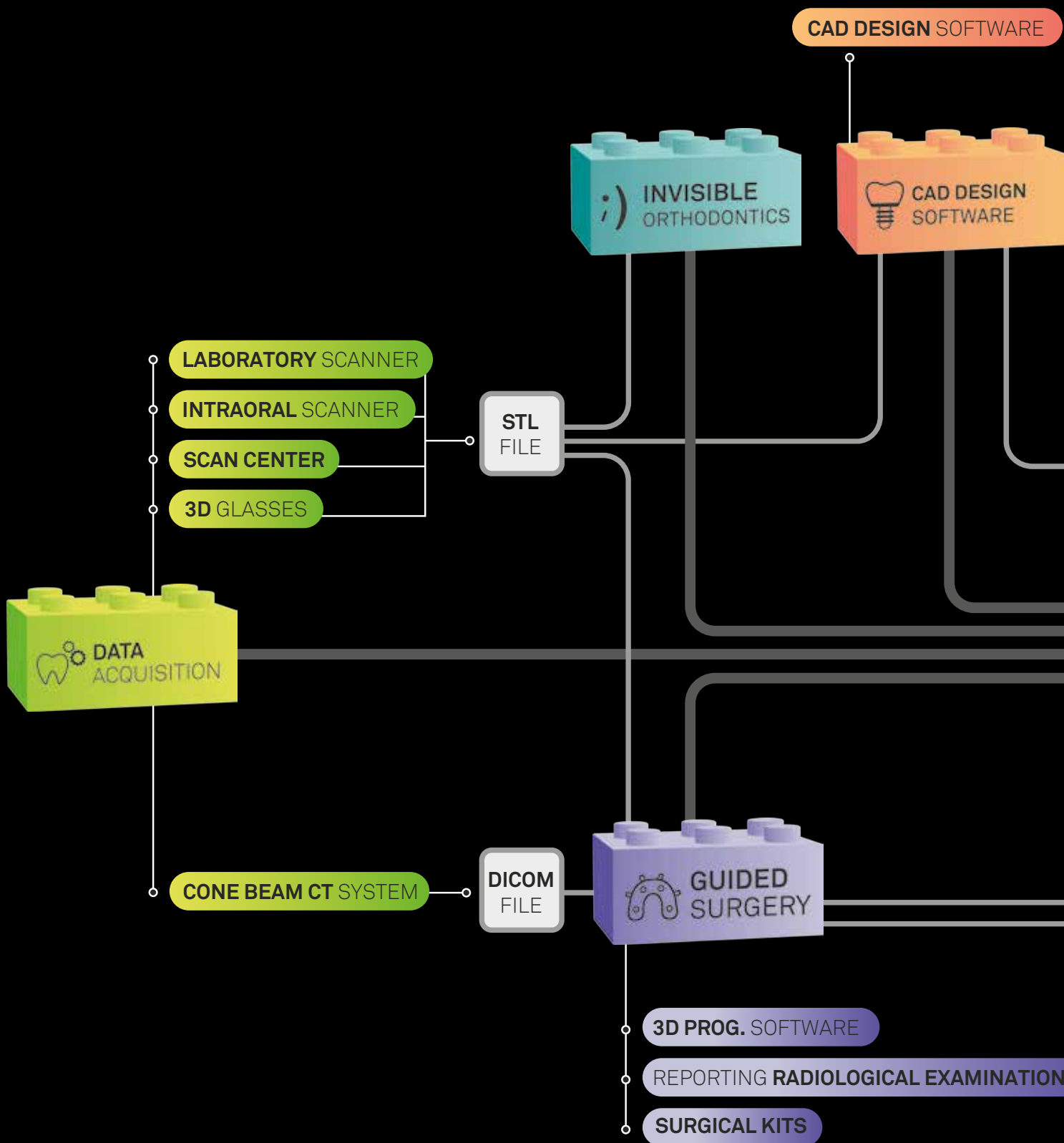
Solutions for overdentures

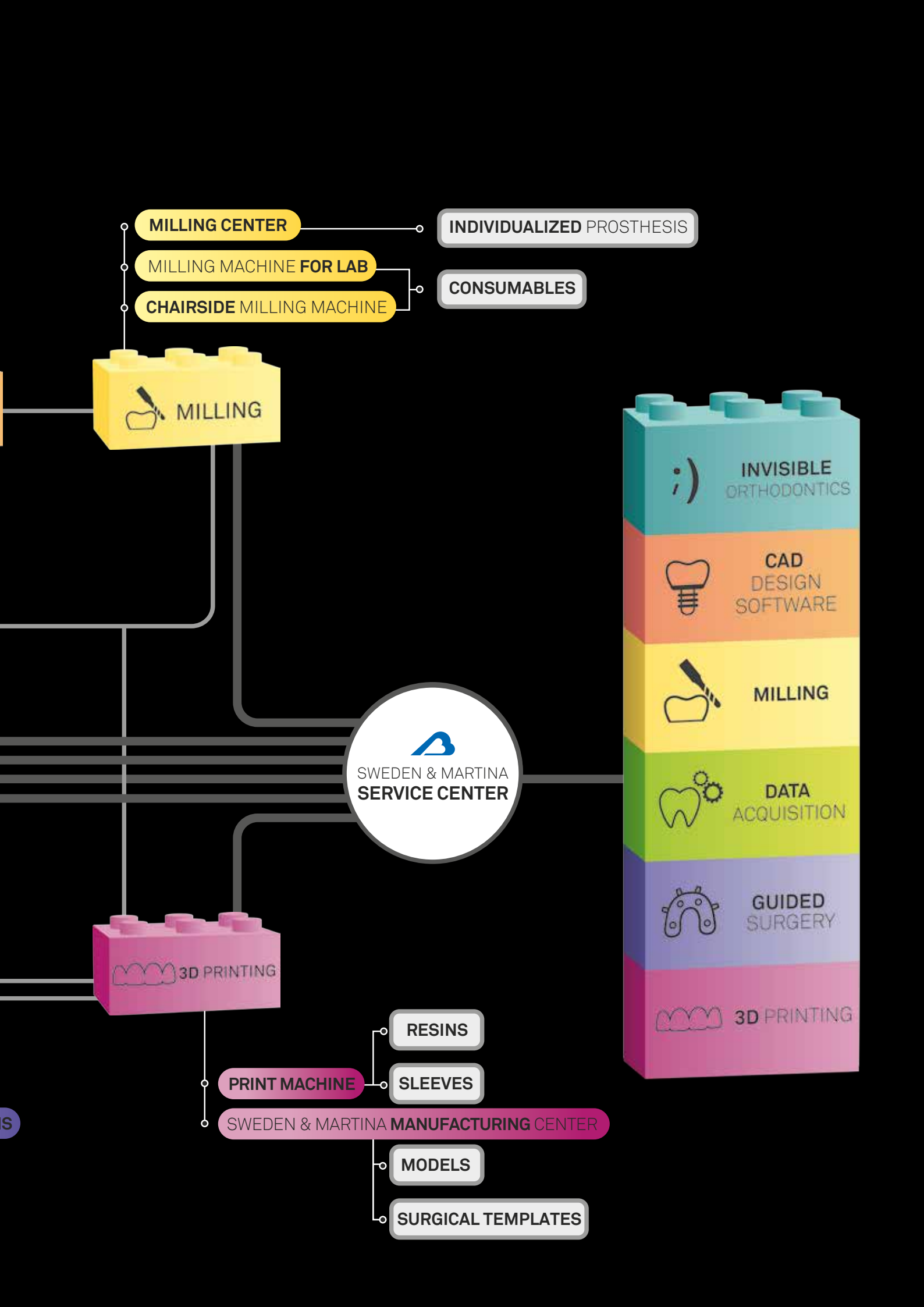


Solutions for custom-made rehabilitations with CAD CAM technique



Create your digital workflow.





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INDIVIDUALIZED PROSTHESIS

MILLING MACHINE FOR LAB

CONSUMABLES

CHAIRSIDE MILLING MACHINE

MILLING

INVISIBLE ORTHODONTICS

CAD DESIGN SOFTWARE

MILLING

DATA ACQUISITION

GUIDED SURGERY

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