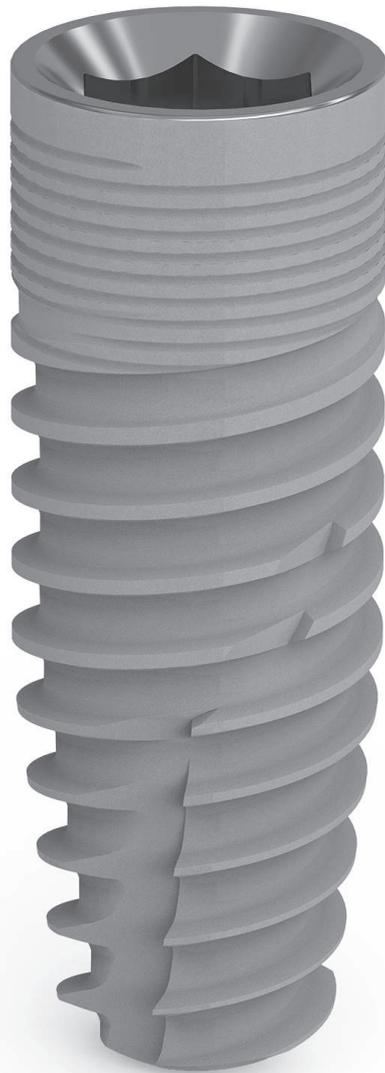


# ZiNio<sup>®</sup>MT

Conical implants with internal hex connection





# ZiNiC<sup>®</sup>MT

Conical implants with internal hex connection





# Important information

Please read carefully before using Ziacom® products

## General information

This document contains basic information on the use of original Ziacom® dental implant systems, hereafter referred to as Ziacom® dental implants or simply Ziacom® products. This document has been created as quick guide for clinicians responsible for treatment, hereafter the "user", and, therefore, is neither an alternative nor a substitute for specialized training or professional clinical experience.

Ziacom® products must be used according to a suitable treatment plan and adhering strictly to the surgical and prosthetic protocols established by the manufacturer. Read the product-specific surgical and prosthetic protocols as well as the instructions for use and maintenance before using each Ziacom® product. You can find this information on our website, [www.ziacom.com](http://www.ziacom.com), or request it from your nearest authorised Ziacom® distributor.

## Liability, safety and guarantee.

The instructions for the use and handling of Ziacom® products are based on internationally published literature, current clinical standards and our clinical experience, so they should be understood as general guiding information. The handling and use of Ziacom® products is the sole responsibility of the user as it is outside the control of Ziacom Medical SL. Ziacom Medical SL, their affiliates and/or their authorised distributors disclaim all responsibility, whether explicit or implicit, total or partial, for possible damage or injury caused by poor handling of the product or any other situation not considered in their protocols and manuals for the correct use of their products.

The user must ensure that the Ziacom® product is appropriate for the intended procedure and end purpose. Neither these instructions for use nor the work or handling protocols for the products release the user from this obligation. Ziacom® products must be used, handled and applied by professionals with the appropriate training and qualifications required according to current legislation in each country.

The total or partial use, handling and/or application of Ziacom® products at any stage of their implementation by personnel who are unqualified or lack the necessary training will automatically void any type of warranty and may cause severe damage to the patient's health.

Ziacom® products are part of their own system, with their own design characteristics and work protocols, including dental implants, abutments or prosthetic components and surgical or prosthetic instruments. The use of Ziacom® products in combination with elements or components from other manufacturers could result in treatment failure, damage to tissues or bone structures, inadequate aesthetic outcomes and severe damage to the patient's health. Therefore, only original Ziacom® products should be used.

The clinician in charge of the treatment is solely responsible for ensuring the use of original Ziacom® products and that they are used according to the corresponding instructions for use and handling protocols throughout the implant procedure. The use of any other non-original Ziacom® components, instruments or products, whether alone or in combination with any original Ziacom® products, will immediately void the warranty of the original Ziacom® products.

See the Ziacom Medical SL Warranty Programme (available on the website or by contacting Ziacom Medical SL, their affiliates or authorised distributors).

**Warning.** Not all Ziacom® products are available in all countries. Check availability in your country.

The Ziacom® brand and the names of other products and services, including their logos, that are mentioned in this document or on the website [www.ziacom.com](http://www.ziacom.com), are registered trademarks of Ziacom Medical S.L.

Ziacom Medical S.L. reserves the right to modify, change, remove or update any of the products, prices or technical specifications referenced on this website or in any of its documents without prior notification. All rights reserved. The reproduction of this document, whole or in part and in any medium or format, without the corresponding written authorisation from Ziacom Medical SL is prohibited.





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# The Company

## Together for health

Ziacom® has been working for more than 15 years to improve the **oral health** and well-being of patients around the world by **designing and manufacturing innovative**, high-quality dental implant, prosthetic component, surgical instrument and biomaterial solutions.

The company was founded in 2004 with **100% Spanish capital** and began its activity as a manufacturer of dental implants and attachments for several European companies before launching its own **brand of implant systems** in 2006.

In 2015, Ziacom® introduced its **diversification strategy** with the development of **new business lines** and new product lines and the launch of a **new portfolio**, which helped the company achieve a **15% share of the Spanish market** in 2016 with the sale of more than 230,000 implants.

In 2022, the company started up on an **ambitious growth plan** with new goals of **international expansion**, broadening and **diversification** of its portfolio of **products and services** and a Corporate Identity restyle.

## Ziacom® quality

Commitment to **quality and innovation** has been part of the values and the essence of Ziacom® since the beginning.

The reason why we used state-of-the-art technology in **every stage of our products' production cycle**, from **design and manufacture to quality assurance, cleaning and packaging**. All of our products are also manufactured using only **high-quality raw materials** after applying **strict controls to select** our main suppliers.

Ziacom Medical SL is a **licensed manufacturer of medical devices** and an AEMPS (Spanish Agency for Medicines and Medical Devices) 6425-PS **marketing authorisation holder**. Our **quality management**

**system is certified** in accordance with the requirements of ISO standards 9001:2015 and 13485:2018, and is also GMP 21 CFR 820 compliant.



Thanks to our ceaseless endeavours to offer our clients an unsurpassable quality, all our implants have a **lifetime guarantee**.

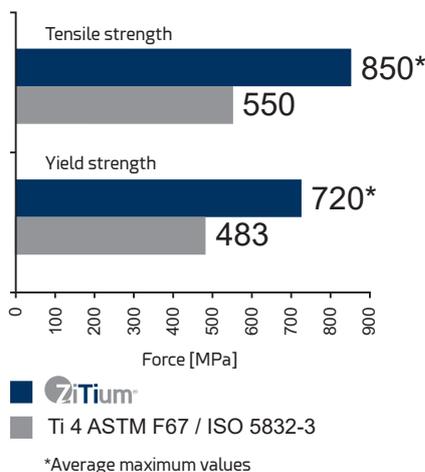
See the General Conditions for Accessing the Guarantee for Ziacom® products.

## Zitium® titanium

Ziacom® **Zinic® MT** implants are manufactured using **extra-high-strength grade 4 Zitium® titanium** which gives them **considerably improved yield strength and mechanical properties**.

Thanks to **Zitium® titanium**, our implants meet the requirements of ASTM F67 and ISO 5832-3 and are certified in accordance with Council Directive 93/42/EEC and its amendment Directive 2007/47/EC by notified body 0051.

Properties of Zitium® titanium



**FDA Approved\***

\*See approved models

Ziacom® implants are all sterilised using beta ray radiation at 25 kGy, apart from the DSQ orthodontic implants, which are supplied **unsterilised**.

### IMPORTANT

All the products (except dental implants) listed in this Ziacom® catalogue are supplied unsterilised and must be sterilised before use.



## Investment in innovation and training

In order to always offer the very best solutions for the **well-being of every patient**, and thanks to the experience and dedication of our **highly-qualified professionals** and **innovative Technological Centre**, our R&D&I team works incessantly in the field of **research and innovation** to **improve** our products and develop **new solutions** to meet the demands and needs of both patients and dentists.

We also invest in **research** and **ongoing training** as a way of providing **scientific support to the sector** and we firmly believe in training **young professionals** to ensure the best **advances in dentistry field**.

We therefore work closely with **training centres, universities and scientific bodies** to create a practical and specialised teaching environment to promote and strengthen their knowledge, abilities and professional growth.

In order to enhance our investment in the training and **development of dental professionals**, we have **specific areas at our facilities** for **hands-on training and practicals, state-of-the-art** training equipment and also a **physical and virtual showroom** where professionals can see all our dental solutions first hand.

## Ziacom® around the world

We are committed to making oral health available to patients all over the world and have a solid **internal growth and expansion plan** to increase the company's **international presence** in those **areas where we our products are already available** and to add **new growth areas**.

In order to achieve this, we offer our **international associates** a **trusting and collaborative** partnership by adapting to their **local needs** and providing solutions that are specific to each market.

As part of our commitment to meet the specific **quality, regulatory and legal requirements of each country**, for both the registration and distribution of our products, we have **specific certifications** from each of the countries in which we trade.

### Regional headquarter

#### Ziacom Medical SL

Madrid - ESPAÑA  
Calle Búhos, 2 - 28320 Pinto  
Tel: +34 91 723 33 06  
info@ziacom.com

### Subsidiaries

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info.pt@ziacom.com

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Phone: +1(786) 224 - 0089  
info.usa@ziacom.com

Please see the up-to-date list of Ziacom® distributors at [www.ziacom.com](http://www.ziacom.com) or email us at [export@ziacom.com](mailto:export@ziacom.com)

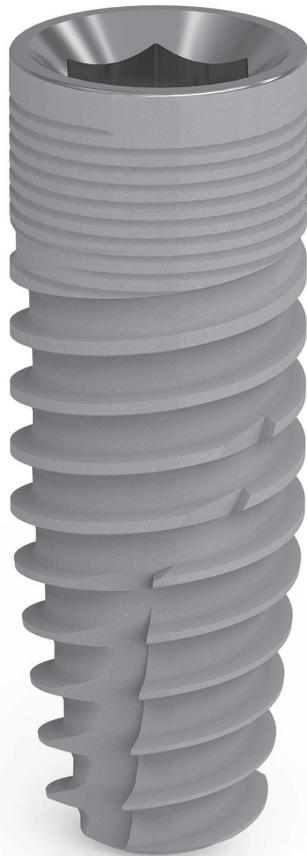




ZiNICTM

# ZiNio<sup>®</sup>MT

Conical implants with internal hex connection



## Characteristics

### CONNECTION

- Internal hex connection.
- 15 mm deep prosthesis hex: improves distribution of lengthinal forces.
- Conical bevel: reduces infiltration.
- Conical friction: reduces micromovements.
- Platform switching: soft tissue modelling and emergence profile shaping.

### CORTICAL ZONE

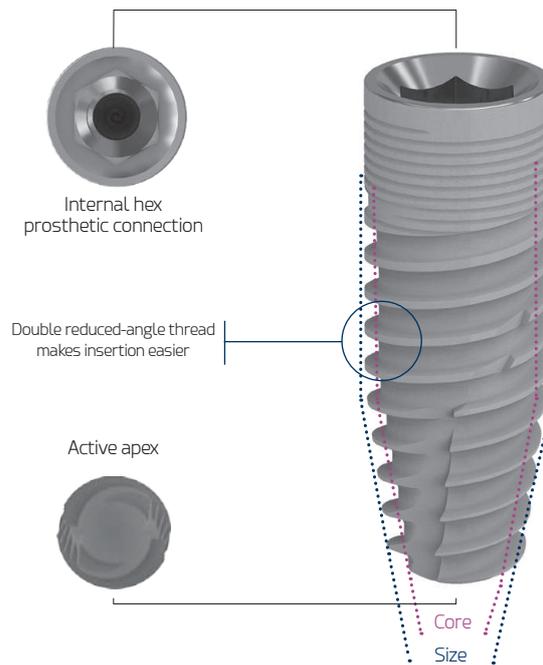
- Microthread design: preserves marginal bone.
- Microthread extension: improves load distribution.
- Macrodesign: optimal cortical compression.

### BODY

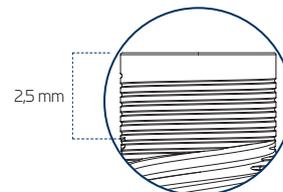
- Reduced-angle active threads: improve stability during insertion and increase BIC (bone-to-implant contact).
- Double threaded: quick insertion and shorter surgical time.
- Self-tapping active apex: facilitates insertion with undersized drilling technique.
- Transverse apical windows: collect remnants of bone during insertion.
- Optimised morphology: high primary stability.
- Atraumatic apex: no damage to anatomical structures.

### CONICAL DESIGN

- Facilitates shaping in low density bone.
- Indicated for immediate loading.
- Indicated for cases of apical convergence and/or collapse.



Dimensions of the implant's neck/collar



# Diameters and lengths

Ø DIAMETER	Ø PLATFORM	LENGTH (L)						
		6	7	8.5	10	11.5	13	14.5
● NP 3.30	3.20							
● RP 3.60	3.50							
● RP 4.00								
● RP 4.40								
● WP 4.80	4.50							

Dimensions in mm.

## Surface treatments

### ■ Titansure surface

Implants inserted following surface treatment are known to benefit from improved osseointegration by increasing the bone-to-implant contact area. This is partly due to the implant's chemical composition and topographical characteristics.

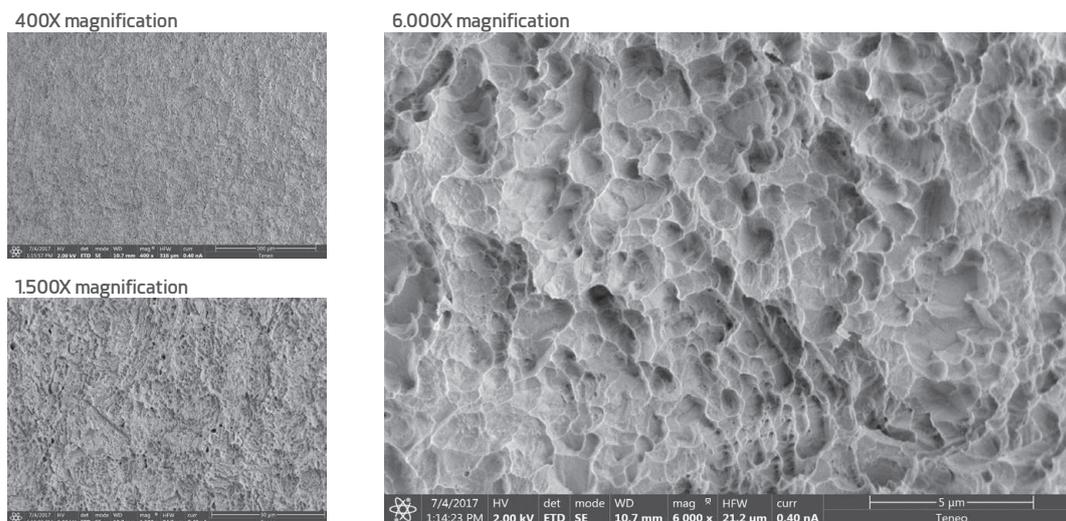
With our **Titansure** surface treatment, at Ziacom<sup>®</sup> we have obtained a contaminant-free surface topography and optimal average macro- and microporosity values, which are key specifications for achieving prompt and proper osseointegration and, in turn, extremely reliable and predictable implants.

### ■ TITANSURE SURFACE ANALYSIS

**Titansure** is an SLA surface treatment created through a subtraction process involving sandblasting with white aluminium oxide and double acid etching with hydrofluoric acid and a sulphuric/phosphoric acid mix.

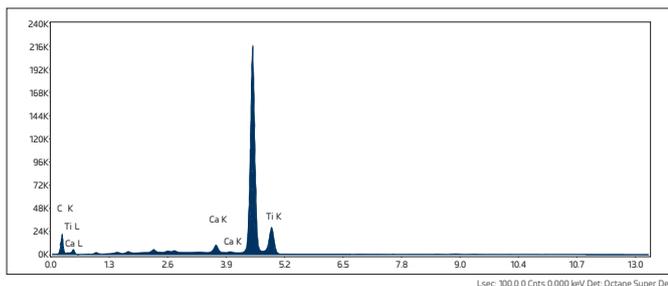
#### Surface morphology analysis

With the aid of a scanning electron microscope (FEI TENE0, Thermo Fisher Scientific Inc., Waltham, MA, USA), we can see the rough, porous surface creating numerous cavities with thin, sharp edges.



#### Surface elemental analysis

We used an energy-dispersive X-ray spectrometer (Octane Super, Edax-Ametek, Mahwah, NJ, USA) to analyse the chemical composition at the surface.



#### Compositional analysis of implant surface

ELEMENT	WEIGHT (%)
C K	9.32 (10.23)
Al K	-
Ti K	89.53 (11.77)

No aluminum was detected

Results are expressed as the mean and standard deviation of the mass percentage (WEIGHT %).

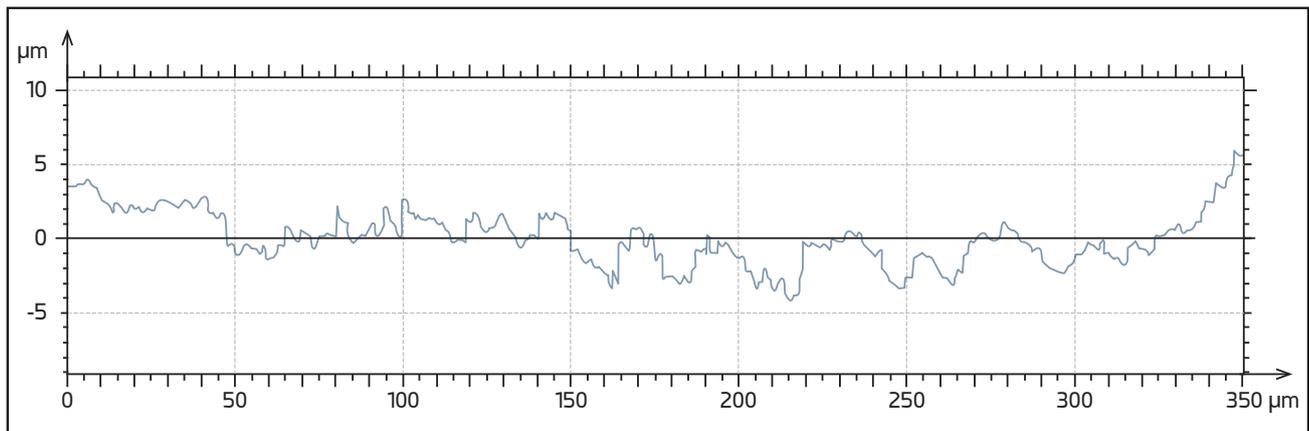
### Surface roughness analysis

The roughness study was conducted with a Sensofar S NEOX interferometric-confocal microscope (Sensofar Medical, Terrasa, Spain) and SensoMAP Premium 7.4 software. The quantitative roughness profile parameters applied were: average roughness (Ra), root-mean-square roughness (Rq), maximum profile peak height roughness (Rp) and maximum profile valley depth roughness (Rv).

Ra (µm) (SD)	Rq (µm) (SD)	Rp (µm) (SD)	Rv (µm) (SD)
0.82 (0.10)	0.97 (0.08)	1.84 (0.04)	2.21 (0.01)

The 3D surface roughness (Sa), 3D root mean square height (Sq), maximum 3D peak height (Sp) and maximum 3D pit depth of the selected area (Sv) were also recorded.

Sa (µm) (SD)	Sq (µm) (SD)	Sp (µm) (SD)	Sv (µm) (SD)
0.76 (0.01)	0.97 (0.01)	4.20 (0.12)	4.62 (0.20)



**The data were extracted from:**

Rizo-Gorrita, M.; Fernandez-Asian, I.; Garcia-de-Frenza, A.; Vazquez-Pachon, C.; Serrera-Figallo, M.; Torres-Lagares, D.; Gutierrez-Perez, J. Influence of Three Dental Implant Surfaces on Cell Viability and Bone Behavior. An In Vitro and a Histometric Study in a Rabbit Model. Appl. Sci. 2020. 10(14), 4790

### ■ OPTIMAL OSSEOINTEGRATION

The **Titansure** surface has a three-dimensional surface structure with high peaks and broad troughs, which is known to be highly effective at promoting the coagulation cascade and the release of growth factors through platelet activation [Kim, H.; Choi, S.H.; Ryu, J.J.; Koh, S.Y.; Park, J.H.; Lee, I.S. The biocompatibility of SLA-treated titanium implants. Biomed. Mater. 2008. 3. 025011].

This type of surface may have an osteogenic effect thanks to its different topographical features at a micrometer and nanometer level, which has a very similar morphology to the osteoclastic bone resorption cavities [Le Guehennec, L.; Goyenvalle, E.; Lopez-Heredia, M.A.; Weiss, P.; Amouriq, Y.; Layrolle, P. Histomorphometric analysis of the osseointegration of four different implant surfaces in the femoral epiphyses of rabbits. Clin. Oral Implants Res. 2008. 19. 1103–1110].

For more information on the surface treatment see the literature available at [www.ziacom.com/biblioteca](http://www.ziacom.com/biblioteca)




## Surface treatments

### ■ Titansure Active surface treatment

Ziacom<sup>®</sup> presents the **Titansure Active** surface treatment with bone bioactive liquid (BBL) as the latest innovation for the presentation of our dental implants. The **Titansure Active** surface treatment is a combination of **Titansure** with BBL technology (Bone Bioactive Liquid), a patent acquired by Ziacom<sup>®</sup> and developed by the Biointelligence Systems research group led by Professor Maher Al-Atari Abou-Asi.

"BBL technology consists of a saline solution containing calcium chloride (CaCl<sub>2</sub>) and magnesium chloride (MgCl<sub>2</sub>·6H<sub>2</sub>O) with a net negative charge and creates the ideal conditions for post-implant cell adhesion in the region with bone damage. What is more, surface treatment with BBL provides a significant increase in the density of hydroxyl groups on the surface of implants, thus improving their hydration considerably compared with other surfaces. This hydrophilic implant surface is precisely what enables active ion interaction with blood plasma and bone-forming cells long before the first stem cells can attach to the surface. Finally, this yields improved intercellular communication and a greater final bone-to-implant contact area in a significantly shorter time, thereby markedly reducing the postoperative inflammatory process."

Dr. Prof. Maher Al Atari

### ■ SURFACE STUDIES OF BBL-TREATED IMPLANTS

#### In vitro research

Dental pulp pluripotent-like stem cell (DPPSC) and dental pulp mesenchymal stem cell (DPMSC) cultures were prepared on titanium discs sandblasted with aluminium oxide and acid etched in an osteoblast differentiation medium.

The samples were divided into two treatment groups:

- **Group A.** Titanium discs - Traditional, untreated surface.
- **Group B.** Titanium discs - BBL-treated surface.

The surfaces were examined using energy-dispersive X-ray microanalysis (EDXMA) to determine the composition of surface elements.

Comparison of different elements in the two groups		
	Untreated surface	Treated surface <b>Titansure Active</b>
Carbon	32.22 ± 5.89	32.89 ± 1.76
Oxygen	14.34 ± 1.23	13.97 ± 1.45
Phosphorus	3.96 ± 2.8	3.89 ± 1.87
Calcium	5.86 ± 3.8	9.53 ± 4.04
Titanium	39.76 ± 1.65	41.34 ± 1.89
Ca/P	1.678	2.347

#### In vivo research

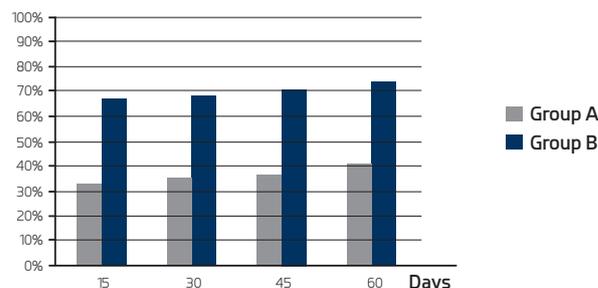
A study was conducted in the tibiae of 10 adult New Zealand rabbits after inserting four implants per rabbit (two in each tibia).

The subjects were assigned to two treatment groups with implants:

- **Group A.** Implants with a traditional, untreated surface.
- **Group B.** Implants with a traditional, BBL-treated surface.

In general, group B had higher BIC (bone-to-implant contact) values than group A.

Histomorphometric analysis - Bone-to-implant contact (BIC)		
Time of measurement	Group A Untreated surface (Control) mean + SD	Group B Treated surface <b>Titansure Active</b> mean + SD
15 days	33.7 ± 2.3%	68.92 ± 0.3%
30 days	35.8 ± 1.8%	69.35 ± 2.2%
45 days	37.9 ± 1.2%	70.34 ± 1.1%
60 days	41.2 ± 0.8%	73.89 ± 1.9%

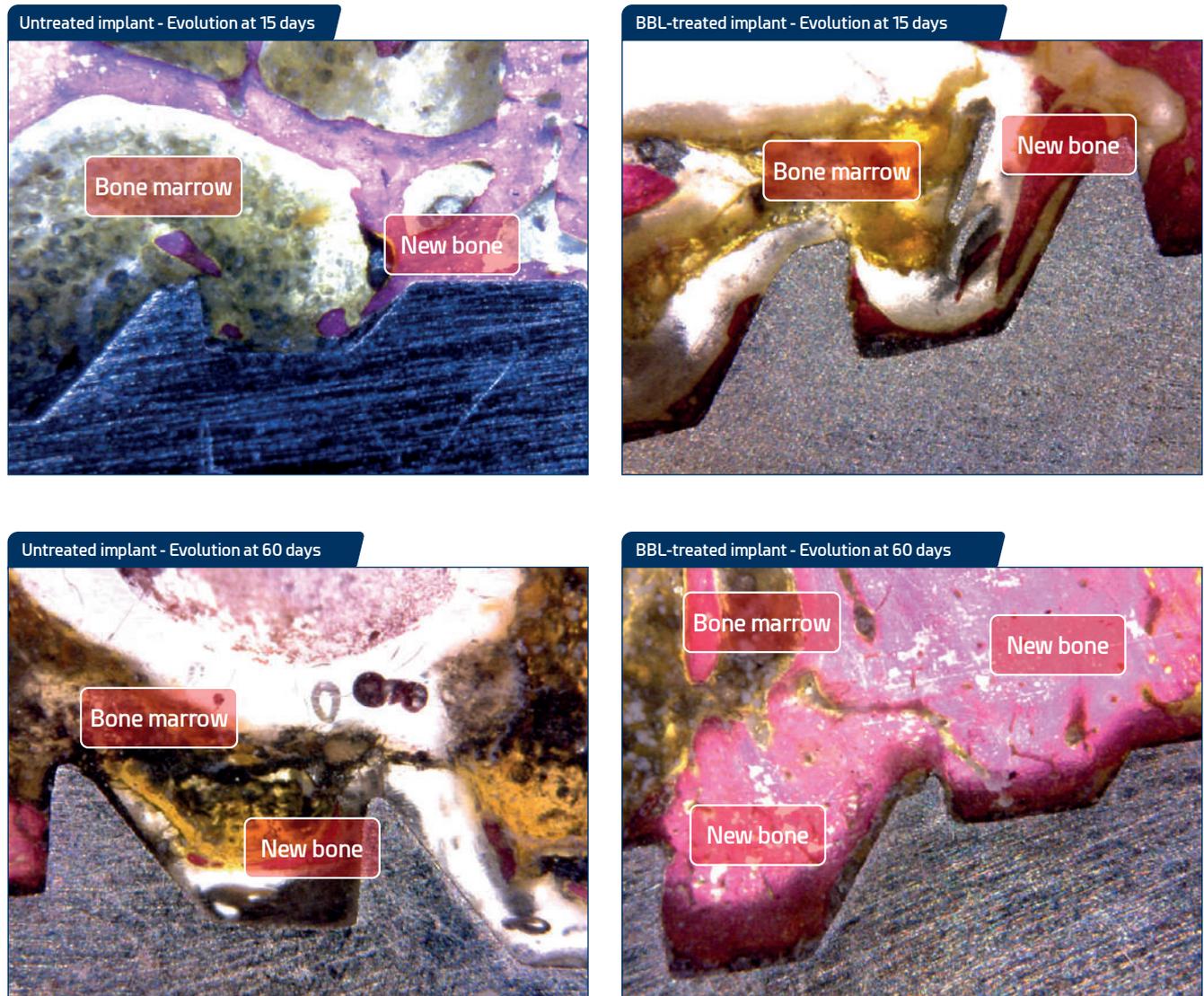


## Conclusions

Within the scope of this study, the histomorphometric analysis demonstrated that the group B implants achieved quicker and more effective osseointegration than control group A. Nevertheless, an assessment of bone growth in the medullary portion of the subjects' tibiae revealed the new surface's potential for osteoinduction.

As explained by Dr. Sérgio Alexandre Gehrke, the histologist in charge of the study: "Within the study's limits, data from the histomorphometric analysis of the implants with a BBL-treated surface ( $78.92 \pm 0.3\%$ ) highlighted a much quicker and more effective osseointegration compared to the control group ( $53.8 \pm 2.3\%$  of BIC). Assessment of bone growth in the medullary portion of the rabbits' tibiae showed the new test surface's potential for osteoinduction."

## ■ EVOLUTION OF OSSEOINTEGRATION



### NOTE

The images are of Ziacom® implants manufactured specifically for use in the study of BBL-treated implants.

## Product presentation

### ■ Packaging tailored to the type of surface

Ziacom<sup>®</sup> offers two different types of product packaging depending on the type of implant surface:

#### Blister packaging

Available for implants with **Titansure** surface treatment. The blisters are heat-sealed and include identification labels for product traceability and a flap for easy opening in the clinic but while preventing accidental opening.

#### Bottle packaging

Available for implants with **Titansure Active** surface treatment. The sealed bottle contains bone bioactive liquid (BBL) to ensure the perfect preservation of the implant's properties. The bottles include identification labels for product traceability.

### Titansure



### Titansure Active



#### IMPORTANT

Do not open the sterile container until just before inserting the implant.

### ■ Outer identification label

Ziacom<sup>®</sup> implants are supplied in a sealed cardboard box that includes a product identification label with a description of their main characteristics.

CE 1500	<b>Ziacom<sup>®</sup></b>	MD	Implante Dental	ES	ZIACOM MEDICAL, S.L. Phis - Madrid Sirenia, 2 28292 San Juan de los Rios Madrid, FL 33131 - USA Tel: +1 (786) 224-0089 www.ziacom.com
Rx Only	# XXXX - XXXXXXXXXXXXXXX	X Unid	Dental Implant	EN	
T	REF XXXXXXXXX	XX	Zahnimplantat	DE	
XXXXXXXXXX	LOT XXXXXXXXX		Implant Dentaire	FR	
XXXXXXXXXX	Ø X,XXxXXmm		Implanto Dentale	IT	
XXXXXXXXXX	XXXXXXXXXX (01)XXXXXXXXXXXX(17)XXXXXX(11)XXXXXXXX(10)XXXXXXXXXX		Implante Dentário	PT	
XXXXXXXXXX		UDI			
XXXXXXXXXX					
XXXXXXXXXX					
XXXXXXXXXX					

#### Description of the symbology used

- CE marking and notified body number.
- Medical device indicator.
- Model code.
- Product name.
- Product batch number.
- Unique device identifier.
- One single sterile barrier system with protective outer packaging. Sterilised by radiation.
- One single sterile barrier system. Sterilised by radiation.
- Temperature limit.
- Caution, consult accompanying documents.
- Do not resterilize.
- Do not use if package is damaged.
- Single-use product.
- See instructions for use.
- Product expiration date.
- Date of manufacture.
- Product manufacturer.
- Titansure surface treatment.
- Titansure Active surface treatment.
- Prescription only.

For full details on the product presentation and instructions for use (IFU) see [www.ziacom.com/ifus](http://www.ziacom.com/ifus) or scan the QR code on the box.



## ■ ZPlus Mount option

Options for the Zinic® MT include the **ZPlus** mount, a multi-functional abutment made in grade 5 ELI titanium (sanitary grade), which allows easy handling of the implant during the procedure. Additionally, the **ZPlus** mount concept is based on reducing treatment costs, as it works equally well as an implant mount, impression abutment, or provisional abutment for cement-screwed.

The **ZPlus** mount is available for the following implant ranges Zinic®, Zinic® MT, ZM4, ZM4 MT and ZM1.

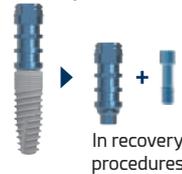
As we said, the **ZPlus** mount may be used as a provisional abutment, in which case it should be sculpted extra-orally and adjusted on an analogue, preferably a lab model or clamp. Check also the structural integrity of the mount and screw, to ensure that they have not suffered any deformation or damage due to excessive insertion torque or forced removal manoeuvre. Additionally, verify on an analogue that the **ZPlus** fixing screw is well fitted and that the connection is secure.

### IMPORTANT

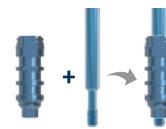
Always follow the surgical protocol when inserting the implant. This will protect the mount and screw from possible damage which could prevent it being used later as an impression abutment and/or provisional abutment. Use each **ZPlus** only with the implant to which it belongs. To avoid mix-ups, keep the **ZPlus** and screw with the patient's ID, detailing the corresponding reference and batch number. The **ZPlus** has 3 flat sides. After finishing the implant procedure, ensure that one of the flat sides faces into the vestibular cavity.

### ZPlus Mount - Uses

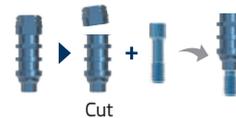
#### As an implant mount



#### As an impression transfer



#### As a provisional abutment



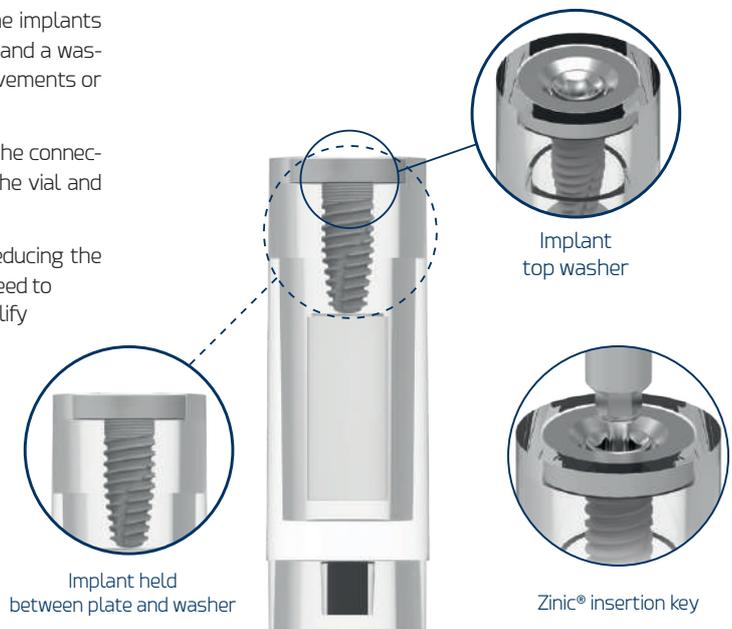
Implant + Mount

## ■ Ziacom® No Mount option

Zinic® MT implants are supplied in Ziacom® No Mount vials; the implants are held vertically inside a plastic vial between a plate below and a washer above (both made from titanium), thus preventing any movements or unwanted contacts.

This packaging means that the pressure is applied directly to the connection so the implant can be safely and easily withdrawn from the vial and transferred to the surgical site.

Therefore, Ziacom® No Mount implants eliminate the risk of reducing the primary stability caused by over instrumentation, squash the need to handle the implant when removing it from the mount, and simplify implant insertion in posterior areas with limited access.



## Zinic<sup>®</sup> MT references

### ■ Zinic<sup>®</sup> MT with ZPlus - Titansure / Titansure Active references

IMPLANT				
Ø (mm)	Ø Core (mm)	Length (mm)	Ref. Titansure	Ref. Titansure Active
3.30	2.80/1.70	8.5	ZSS3385M	ZSS3385MA
		10.0	ZSS3310M	ZSS3310MA
		11.5	ZSS3311M	ZSS3311MA
		13.0	ZSS3313M	ZSS3313MA
		14.5	ZSS3314M	ZSS3314MA
3.60	3.10/1.80	8.5	ZSS3685M	ZSS3685MA
		10.0	ZSS3610M	ZSS3610MA
		11.5	ZSS3611M	ZSS3611MA
		13.0	ZSS3613M	ZSS3613MA
		14.5	ZSS3614M	ZSS3614MA
4.00	3.40/2.10	6.0	ZSS4006M	ZSS4006MA
		7.0	ZSS4007M	ZSS4007MA
		8.5	ZSS4085M	ZSS4085MA
		10.0	ZSS4010M	ZSS4010MA
		11.5	ZSS4011M	ZSS4011MA
		13.0	ZSS4013M	ZSS4013MA
4.40	3.80/2.30	6.0	ZSS4406M	ZSS4406MA
		7.0	ZSS4407M	ZSS4407MA
		8.5	ZSS4485M	ZSS4485MA
		10.0	ZSS4410M	ZSS4410MA
		11.5	ZSS4411M	ZSS4411MA
		13.0	ZSS4413M	ZSS4413MA
4.80	4.10/2.40	6.0	ZSS4806M	ZSS4806MA
		7.0	ZSS4807M	ZSS4807MA
		8.5	ZSS4885M	ZSS4885MA
		10.0	ZSS4810M	ZSS4810MA
		11.5	ZSS4811M	ZSS4811MA
		13.0	ZSS4813M	ZSS4813MA

#### Metric



Metrics 1.60 (NP) and 1.80 (RP/WP).

#### Cover screw\*



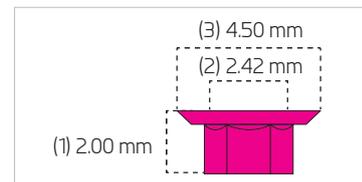
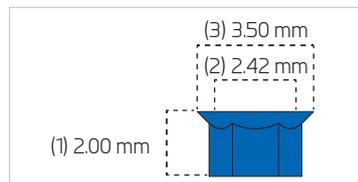
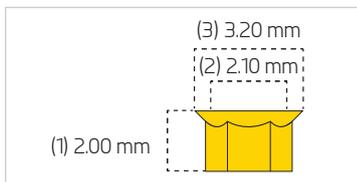
Platf.	Length (L)	Reference
●	4.20	ZNPT
●	4.20	ZRPT
●	4.20	ZWPT

Anodised ● NP ● RP ● WP



\* Screw included with each implant.

#### Platform



(1) Internal hex depth. (2) Distance between faces of the internal hex. (3) Diameter of working platform.

## Zinic® MT with Ziacom® No Mount - Titansure / Titansure Active references

IMPLANT						
Zinic <sup>®</sup> MT	Ø (mm)	Ø Core (mm)	Length (mm)	Ref. Titansure	Ref. Titansure Active	
	3.30	2.80/1.70	8.5	ZSS3385MF	ZSS3385MFA	
			10.0	ZSS3310MF	ZSS3310MFA	
			11.5	ZSS3311MF	ZSS3311MFA	
			13.0	ZSS3313MF	ZSS3313MFA	
			14.5	ZSS3314MF	ZSS3314MFA	
3.60	3.10/1.80	8.5	ZSS3685MF	ZSS3685MFA		
		10.0	ZSS3610MF	ZSS3610MFA		
		11.5	ZSS3611MF	ZSS3611MFA		
		13.0	ZSS3613MF	ZSS3613MFA		
		14.5	ZSS3614MF	ZSS3614MFA		
4.00	3.40/2.10	6.0	ZSS4006MF	ZSS4006MFA		
		7.0	ZSS4007MF	ZSS4007MFA		
		8.5	ZSS4085MF	ZSS4085MFA		
		10.0	ZSS4010MF	ZSS4010MFA		
		11.5	ZSS4011MF	ZSS4011MFA		
		14.5	ZSS4014MF	ZSS4014MFA		
4.40	3.80/2.30	6.0	ZSS4406MF	ZSS4406MFA		
		7.0	ZSS4407MF	ZSS4407MFA		
		8.5	ZSS4485MF	ZSS4485MFA		
		10.0	ZSS4410MF	ZSS4410MFA		
		11.5	ZSS4411MF	ZSS4411MFA		
		14.5	ZSS4414MF	ZSS4414MFA		
4.80	4.10/2.40	6.0	ZSS4806MF	ZSS4806MFA		
		7.0	ZSS4807MF	ZSS4807MFA		
		8.5	ZSS4885MF	ZSS4885MFA		
		10.0	ZSS4810MF	ZSS4810MFA		
		13.0	ZSS4813MF	ZSS4813MFA		

### Metric



Metrics 160 (NP) and 180 (RP/WP).

### Cover screw\*



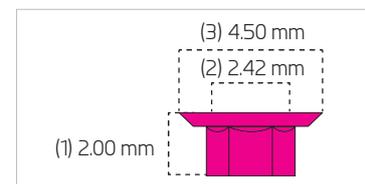
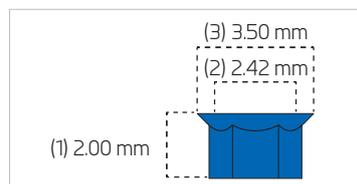
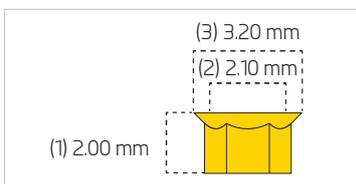
Platf.	Length (L)	Reference
	4.20	ZNPT
	4.20	ZRPT
	4.20	ZWPT

Anodised NP RP WP



\* Screw included with each implant.

### Platform



(1) Internal hex depth. (2) Distance between faces of the internal hex. (3) Diameter of working platform.

## Recommendations for use

All implant treatments must respect the natural biomechanical stability of the oral cavity and allow the natural emergence of the dental crown through the soft tissue. The implantologist must assess the quantity and quality of bone currently in the implant area and consider the need for prior or simultaneous bone regeneration, as appropriate.

Ziacom<sup>®</sup> has a wide range of implants available to cover every reconstruction possibility. The circles on the periodontal chart represent the implant diameters and platforms recommended for each tooth position.

These recommendations are valid for the replacement of teeth with single restorations, bridges, hybrid work or overdentures.

Remember to maintain minimum distances between adjacent implants and between implants and teeth in order to preserve interdental papilla, bone vascularisation and natural emergence profiles.

Selection of the appropriate implant for each case is the sole responsibility of the implantologist. Ziacom<sup>®</sup> advises all clinicians to take into account the warnings based on scientific evidence which can be found in the product catalogues and our website.

### ■ CLARIFICATIONS ON DRILLING MEASUREMENTS AND TECHNIQUES

- **IMPLANT SIZE:** identifies the diameter and length of the implant.
- **IMPLANT BODY:** diameter of the implant core.
- **DRILL SIZE:** diameter and length of the drill bit.
- **DRILLING TECHNIQUE:** we have developed various drilling protocols to enable you to deal with different situations that arise in a schematic way when performing implant surgery.

For more information on implant size selection see the literature available at [www.ziacom.com/biblioteca](http://www.ziacom.com/biblioteca)



## Periodontal chart



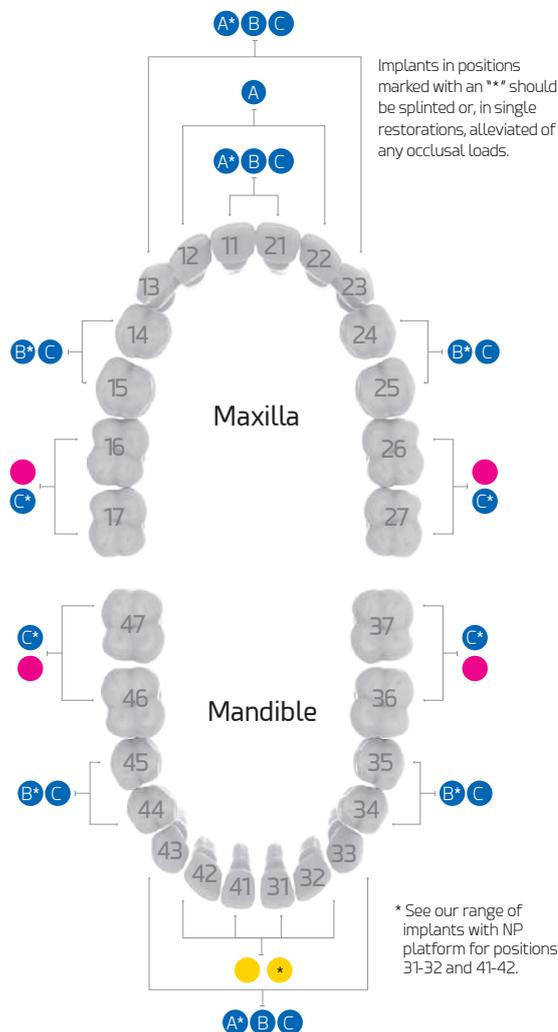
### Implant diameter <sup>(1)</sup>

● NP ● A RP ● B RP ● C RP ● WP  
 Ø3.30 mm Ø3.60 mm Ø4.00 mm Ø4.40 mm Ø4.80 mm

(1) Diameters available for analogue platforms.

### Implant crown diameter

● NP ● RP ● WP  
 Ø3.20 mm Ø3.50 mm Ø4.50 mm



### IMPORTANT

Short, 6.00 and 7.00 mm implants are ONLY recommended for splinted use in combination with normal length implants (≥ 10.00 mm).

## Product sheet

Title, section and paragraph

**Abutments**  
Direct-to-implant restorations

Product name

Product image

Product table:  
- Platform  
- System  
- Height (H)  
- Diameter (Ø)  
- Reference

Product line diagram

Product characteristics

All the dimensions given in this catalogue are expressed in millimeters (mm)

Additional information

Platform	Height (H)	Reference
●	150	HAZ2015
●	300	HAZ2030
●	500	HAZ2050
●	700	HAZ2070
●	150	HAZ2415
●	300	HAZ2430
●	500	HAZ2450
●	700	HAZ2470
●	150	HAZ2515
●	300	HAZ2530
●	500	HAZ2550
●	700	HAZ2570

Platform	Height (H)	Diameter (Ø)	Reference
●	300	4.00	HAZ2030A
●	500	4.00	HAZ2050A
●	150	4.50	HAZ2415A
●	300	4.50	HAZ2430A
●	500	4.50	HAZ2450A
●	150	5.50	HAZ2515A
●	300	5.50	HAZ2530A
●	500	5.50	HAZ2550A
●	150	6.50	HAZ2615A
●	300	6.50	HAZ2630A

Platform	Height (H)	Reference
●	1180	TC2201I
●	1180	TC2341I
●	850Short	TC2340Z
●	1180	TC2501I
●	850Short	TC2502Z

Platform	Height (H)	Reference
●	0.00	LT22000
●	3.00	LT22001
●	6.00	LT22002
●	9.00	LT22010
●	0.00	LT23400
●	3.00	LT23401
●	6.00	LT23402
●	9.00	LT23410
●	0.00	ST23400*

\*Screw for impression with the short impression transfer.

## Symbology

Symbol	Meaning	Symbol	Meaning	Symbol	Meaning
	Rotatory element		Size in millimeters		Made from cobalt chromium + castable plastic
	Non-rotatory element		45° screw support		Made from cobalt chromium
	Use with manual torque (see table on page 41)		90° screw support		Made from PEEK
	Maximum operating torque		Use in rotation with a CA		Made from castable plastic
	Ratchet torque range		Maximum rotation speed		Made from plastic
	Galaxy connection		Maximum number of uses		Recommended sterilisation temperature
	Screw connection		Single-use product		Unsterilised product
	Kirator connection		Made from grade 5 ELI (extra-low interstitial) titanium		Use with abundant irrigation
	Basic connection		Made from grade 2 titanium		Use with abundant irrigation
	XDrive connection		Made from stainless steel		
	Tx30 connection		Made from steel		



ZiNICTM

# Abutments

Direct-to-implant  
restorations



# Abutments

## Direct-to-implant restorations

### 2nd STAGE AND IMPRESSIONS

#### Healing abutment



Platf.	Height (H)	Reference
●	1.50	HAZ2015
●	3.00	HAZ2030
●	5.00	HAZ2050
●	7.00	HAZ2070
●	1.50	HAZ3415
●	3.00	HAZ3430
●	5.00	HAZ3450
●	7.00	HAZ3470
●	1.50	HAZ5015
●	3.00	HAZ5030
●	5.00	HAZ5050
●	7.00	HAZ5070

Anodised ● NP ● RP ● WP



#### Anatomic healing abutment

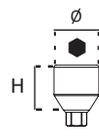


Platf.	Height (H)	Diameter (Ø)	Reference
●	3.00	4.00	HAZ2030A
●	5.00	4.00	HAZ2050A
●	1.50	4.50	HAZ3415A
●	3.00	4.50	HAZ3430A
●	5.00	4.50	HAZ3450A
●	1.50	5.50	HAZ3515A
●	3.00	5.50	HAZ3530A
●	1.50	5.50	HAZ5015A
●	3.00	5.50	HAZ5030A
●	5.00	5.50	HAZ5050A
●	1.50	6.50	HAZ5615A
●	3.00	6.50	HAZ5630A

Anodised ● NP ● RP ● WP



#### Customize healing abutment

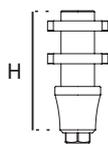


Platf.	Height (H)	Diameter (Ø)	Reference
●	6.00	5.00	HAZ2060AT
●	6.00	6.00	HAZ3460AT



Includes screw.

#### Impression abutment

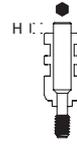


Platf.	Height (H)	Reference
●	11.80	TCZ2011
●	11.80	TCZ3411
●	8.50/Short	TCZ3402
●	11.80	TCZ5011
●	8.50/Short	TCZ5002

Anodised ● NP ● RP ● WP



#### Impression abutment screw



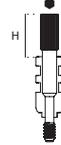
Platf.	Height (H)	Reference
●	0.00	LTZ2000
●	3.00	LTZ2001
●	6.00	LTZ2002
●	9.00	LTZ2010
●	0.00	LTZ3400
●	3.00	LTZ3401
●	6.00	LTZ3402
●	9.00	LTZ3410
●	0.00	STZ3400*

Anodised ● NP ● RP/WP



\*Screw for impression with the short impression transfer.

#### Impression abutment screw - Quickly Screws



Platf.	Height (H)	Reference
●	3.00	LT2001Z
●	6.00	LT2002Z
●	3.00	LT3401Z
●	6.00	LT3402Z

Anodised ● NP ● RP/WP



The height (H) is calculated with respect to the normal abutment height. When using the short impression abutment consider the difference between the abutments heights.

### Pick-Up impression abutment

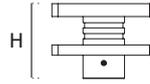


Platf.	Height (H)	Reference
●	3.00	PUZ2001
●	3.00	PUZ3401
●	3.00	PUZ5001

Anodised ■ NP ■ RP ■ WP



### Pick-Up impression transfer

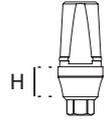


Platf.	Height (H)	Reference
● ● ●	7.25	CPU3410



Pack of 4 units. DO NOT sterilise in an autoclave. Sculptable.

### Z2Plus Snap-On impression abutment



Platf.	Height (H)	Reference
●	3.00	Z2NPZC10
●	1.50	Z2RPZC10
●	1.50	Z2WPZC10

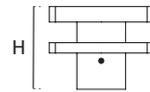
Anodised ■ NP ■ RP ■ WP



#### IMPORTANT

Use the laboratory screw to tighten this impression abutment.

### Z2Plus Snap-On impression transfer

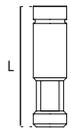


Platf.	Height (H)	Reference
● ●	8.00	ZPU3400
●	8.00	ZPU5000



Pack of 4 units. DO NOT sterilise in an autoclave. Sculptable.

### Implant analogue



Platf.	Length (L)	Reference
●	12.00	IAZ2000
●	12.00	IAZ3400
●	12.00	IAZ5000



### 3D implant analogue

Platf.	Length (L)	Reference
●	12.00	IAZ2000D
●	12.00	IAZ3400D
●	12.00	IAZ5000D



# Abutments

## FIXING ELEMENTS

### Clinical screw



Platf.	Length (L)	Reference
●	8.00	DSZ2000
● ●	7.85	DSZ3400

Anodised ■ NP ■ RP/WP



### Kiran clinical screw



#### For abutments and Ti-Base ZiaCam Tx30

Platf.	Length (L)	Reference
●	8.00	DSZ2010
● ●	7.85	DSZ3410



Special Kiran screw with surface treatment.

### Laboratory screw



Platf.	Length (L)	Reference
●	7.35	LBZ2000
● ●	7.40	LBZ3400



NOT apt for use as the final clinical screw.

### Kiran Tx30 clinical screw



#### For abutments and Ti-Base ZiaCam Tx30

Platf.	Length (L)	Reference
●	7.10	DSZ2010TX
● ●	6.80	DSZ3410TX



Special Kiran Tx30 screw with surface treatment.

Use only with Tx30 screwdrivers.

## PROVISIONAL

### Provisional abutment



#### Rotatory

Platf.	Length (L)	Reference
●	9.50	RUZT2010
●	9.50	RUZT3410
●	9.50	RUZT5010

Anodised ■ NP ■ RP ■ WP



#### Non-rotatory

Platf.	Length (L)	Reference
●	9.50	NUZT2010
●	9.50	NUZT3410
●	9.50	NUZT5010

Anodised ■ NP ■ RP ■ WP



### Provisional abutment

Abutments for aesthetic and immediate loading



#### Rotatory

Platf.	Length (L)	Reference
●	9.50	RUZP2010
●	9.50	RUZP3410
●	9.50	RUZP5010



#### Non-rotatory

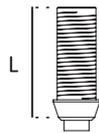
Platf.	Length (L)	Reference
●	9.50	NUZP2010
●	9.50	NUZP3410
●	9.50	NUZP5010



**SCREWED**

**UCLA**

**UCLA**



**Rotatory**

Platf.	Length (L)	Reference
●	10.70	RUZ2000
●	10.70	RUZ3400
●	10.70	RUZ5000



**Non-rotatory**

Platf.	Length (L)	Reference
●	10.70	NUZ2000
●	10.70	NUZ3400
●	10.70	NUZ5000



**MECHANISED BASE UCLA**

**Mechanised base abutment + Castable abutment**



**Rotatory**

Platf.	Length (L)	Reference
●	10.60	BRUZ20
●	10.60	BRUZ34
●	10.60	BRUZ50



**Non-rotatory**

Platf.	Length (L)	Reference
●	10.60	BNUZ20
●	10.60	BNUZ34
●	10.60	BNUZ50



ZINIC<sup>®</sup>MT



# Abutments

## SCREWED

### ■ Tx30 VARIABLE ROTATION ABUTMENT

**Tx30 mechanised base abutment  
+ 2 castable abutments (15° and 20°)**



#### Rotatory

Platf.	15° Length (L)	20° Length (L)	Reference
●	11.40	11.20	BRUZ20TX
●	11.40	11.20	BRUZ34TX
●	11.40	11.20	BRUZ50TX



#### Non-rotatory

Platf.	15° Length (L)	20° Length (L)	Reference
●	11.40	11.20	BNUZ20TX
●	11.40	11.20	BNUZ34TX
●	11.40	11.20	BNUZ50TX



**Tx30 mechanised base abutment  
+ 2 castable abutments (15° and 20°)**



#### Rotatory

Platf.	20° Length (L)	25° Length (L)	Reference
●	11.20	11.00	BRUZ20TX1
●	11.20	11.00	BRUZ34TX1
●	11.20	11.00	BRUZ50TX1



#### Non-rotatory

Platf.	20° Length (L)	25° Length (L)	Reference
●	11.20	11.00	BNUZ20TX1
●	11.20	11.00	BNUZ34TX1
●	11.20	11.00	BNUZ50TX1

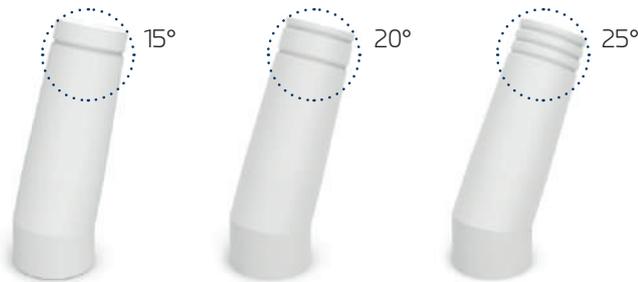


All Tx30 variable rotation abutments come with a special Kiran Tx30 screw with surface treatment Ref. DSZ2010TX (NP)/ DSZ3410TX (RP/WP).

### ■ TX30 VARIABLE ROTATION ABUTMENT

The Tx30 variable rotation abutment comprises a Cr-Co mechanised base that accepts 15°, 20° or 25° angled castable abutments and a Kiran clinical screw with a special Tx30 connection.

The Cr-Co base ensures a perfect fit and seal with the implant connection and the different angles of the castable abutments can be used to choose the best position for the correct emergence of the restoration screw access channel.

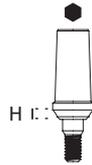


Identifying grooves for the castable angles



**CEMENTED**

**Straight abutment**

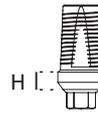


Platf.	Height (H)	Reference
●	1.50	STAZ2015
●	2.50	STAZ2025
●	3.50	STAZ2035
●	1.50	STAZ3415
●	2.50	STAZ3425
●	3.50	STAZ3435
●	1.50	STAZ5015
●	2.50	STAZ5025
●	3.50	STAZ5035

Anodised ■ NP ■ RP ■ WP



**Straight abutment**



Platf.	Height (H)	Reference
●	1.50	STZ2015
●	2.50	STZ2025
●	3.50	STZ2035
●	1.50	STZ3415
●	2.50	STZ3425
●	3.50	STZ3435
●	1.50	STZ5015
●	2.50	STZ5025
●	3.50	STZ5035

Anodised ■ NP ■ RP ■ WP



**15° angled abutment**



Platf.	Height (H)	Reference
●	1.50	A1Z2015
●	2.50	A2Z2015
●	1.50	A1Z3415
●	2.50	A2Z3415
●	1.50	A1Z5015
●	2.50	A2Z5015

Anodised ■ NP ■ RP ■ WP



**25° angled abutment**



Platf.	Height (H)	Reference
●	1.50	A1Z2025
●	2.50	A2Z2025
●	1.50	A1Z3425
●	2.50	A2Z3425
●	1.50	A1Z5025
●	2.50	A2Z5025

Anodised ■ NP ■ RP ■ WP



# Abutments

## Direct-to-implant restorations

OVERDENTURE

### Kirator



Kirator abutment with applicator



#### Kirator abutment

Platf.	Height (H)	Reference
●	1.00	LOZ2001
●	2.00	LOZ2002
●	3.00	LOZ2003
●	4.00	LOZ2004
●	5.00	LOZ2005
●	6.00	LOZ2006
●	1.00	LOZ3401
●	2.00	LOZ3402
●	3.00	LOZ3403
●	4.00	LOZ3404
●	5.00	LOZ3405
●	6.00	LOZ3406
●	1.00	LOZ5001
●	2.00	LOZ5002
●	3.00	LOZ5003
●	4.00	LOZ5004

Golden surface treatment.

Insertion key Ref. LOSD01/LOSD02.



Includes the Kirator abutment with sterilisable polyoxymethylene applicator (Tecaform AH-POM-C).

#### Related abutments

##### Kirator impression transfer



System	Height (H)	Reference
Kirator	6,50	TCRK3400



Pack of 4 units. DO NOT sterilise in an autoclave. Sculptable.

##### Kirator analogue



System	Length (L)	Reference
Kirator	13,00	IATORK01



##### Kirator processing kit



System	Reference
Kirator processing kit	TP8520

Kirator processing kit consisting of: Titanium housing with black lined cap, spacer and purple, transparent and pink plastic caps.

Sterilise the metal coping using the autoclave. Plastic caps and spacers should be cold disinfected. See Cleaning and Disinfection Instructions on the Ziacom® website.

System	Retention (Kg)	Reference
Kirator	● Soft/1,20 kg	TPK100
	● Standard/1,80 kg	TPK200
	● Strong/2,70 kg	TPK300

Pack of 4 plastic Kirator retainer caps.



DO NOT sterilise in an autoclave, perform cold disinfection. Maximum divergence of 22° between implants.

##### Kirator divergence processing kit



System	Reference
Kirator processing kit	TP8520D

Kirator divergence processing kit comprising: Titanium housing with black lined cap, spacer and purple, transparent and pink plastic caps.

Sterilise the metal coping using the autoclave. Plastic caps and spacers should be cold disinfected. See Cleaning and Disinfection Instructions on the Ziacom® website.

System	Retention (Kg)	Reference
Kirator	● Soft/1,20 kg	TPK110*
	● Standard/1,80 kg	TPK220*
	● Strong/2,70 kg	TPK330*

Pack of 4 plastic Kirator retainer caps - divergent.



DO NOT sterilise in an autoclave, perform cold disinfection. Maximum divergence of 44° between implants.

#### Example sequence



The references with \* (TPK110/TPK220/TPK330) of the Kirator divergent processing pack are subject to availability.

# ZM-Equator



ZM-Equator abutment with applicator



## ZM-Equator abutment

Platf.	Height (H)	Reference
●	1.00	ZMZ2001
●	2.00	ZMZ2002
●	3.00	ZMZ2003
●	4.00	ZMZ2004
●	5.00	ZMZ2005
●	6.00	ZMZ2006
●	1.00	ZMZ3401
●	2.00	ZMZ3402
●	3.00	ZMZ3403
●	4.00	ZMZ3404
●	5.00	ZMZ3405
●	6.00	ZMZ3406
●	1.00	ZMZ5001
●	2.00	ZMZ5002
●	3.00	ZMZ5003
●	4.00	ZMZ5004

Golden surface treatment.



Includes the ZM-Equator abutment with sterilisable polyoxymethylene applicator (Tecaform AH-POM-C).

## Related abutments

### ZM-Equator impression transfer



System	Height (H)	Reference
ZM-Equator	6.50	TCRK3410



Pack of 4 units. DO NOT sterilise in an autoclave. Sculptable.

### ZM-Equator analogue



System	Length (L)	Reference
ZM-Equator	13.20	IAZM01



### ZM-Equator processing kit



System	Reference
ZM-Equator processing kit	ZM8520

ZM-Equator processing kit consisting of: Titanium housing with black relined cap, spacer and purple, transparent and pink plastic caps.

Sterilise the metal coping using the autoclave. Plastic caps and spacers should be cold disinfected. See Cleaning and Disinfection Instructions on the Ziacom® website.

System	Retention (Kg)	Reference
ZM-Equator	● Soft/1.20 kg	TZM100
	● Standard/1.80 kg	TZM200
	● Strong/2.70 kg	TZM300

Pack of 4 plastic ZM-Equator retainer caps.



DO NOT sterilise in an autoclave, perform cold disinfection. Maximum divergence of 22° between implants.

### ZM-Equator divergence processing kit



System	Reference
ZM-Equator divergence processing kit	ZM8520D

ZM-Equator divergence processing kit comprising: Titanium housing with black relined cap, spacer and purple, transparent and pink plastic caps.

Sterilise the metal coping using the autoclave. Plastic caps and spacers should be cold disinfected. See Cleaning and Disinfection Instructions on the Ziacom® website.

System	Retention (Kg)	Reference
ZM-Equator	● Soft/1.20 kg	TZM100
	● Standard/1.80 kg	TZM200
	● Strong/2.70 kg	TZM300

Pack of 4 plastic ZM-Equator retainer caps - divergent.



DO NOT sterilise in an autoclave, perform cold disinfection. Maximum divergence of 44° between implants.

## Example sequence



# Abutments

## DIGITAL CAD-CAM

### ZiaCam scanbody to implant



For more information on the recommendations for the use of interfaces in zirconia restorations see the literature available at [www.ziacom.com/biblioteca](http://www.ziacom.com/biblioteca) or the use of abutments see the "Prosthetic procedure" manual.



Platf.	Length (L)	Reference
●	8.00	FNSYZ201T
●	8.00	FNSYZ341T
●	8.00	FNSYZ501T

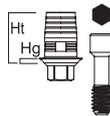
Anodised ■ NP ■ RP ■ WP



Indicated for the clinic.

All ZiaCam to implant scanbodies include a screw  
Ref. LBZ2000 (NP)/LBZ3400 (RP/WP).

### ZiaCam Ti-Base



#### Rotatory

Platf.	Height (Hg/Ht)	Reference
●	0.50/5.00	FRUZ201
●	1.50/6.00	FRUZ202
●	0.50/5.00	FRUZ341
●	1.50/6.00	FRUZ342
●	0.50/5.00	FRUZ501
●	1.50/6.00	FRUZ502



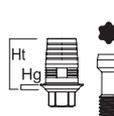
#### Non-rotatory

Platf.	Height (Hg/Ht)	Reference
●	0.50/5.00	FNUZ201
●	1.50/6.00	FNUZ202
●	0.50/5.00	FNUZ341
●	1.50/6.00	FNUZ342
●	0.50/5.00	FNUZ501
●	1.50/6.00	FNUZ502



All Ti-Base ZiaCam abutments come with a special Kiran screw with surface treatment Ref. DSZ2010 (NP)/DSZ3410 (RP/WP).

### Tx30 ZiaCam Ti-Base



#### Rotatory

Platf.	Height (Hg/Ht)	Reference
●	0.50/6.00	FRUZ20TX1
●	1.50/7.00	FRUZ20TX2 <sup>(1)</sup>
●	0.50/6.00	FRUZ34TX1
●	1.50/7.00	FRUZ34TX2 <sup>(1)</sup>
●	0.50/6.00	FRUZ50TX1
●	1.50/7.00	FRUZ50TX2 <sup>(1)</sup>



#### Non-rotatory

Platf.	Height (Hg/Ht)	Reference
●	0.50/6.00	FNUZ20TX1
●	1.50/7.00	FNUZ20TX2 <sup>(1)</sup>
●	0.50/6.00	FNUZ34TX1
●	1.50/7.00	FNUZ34TX2 <sup>(1)</sup>
●	0.50/6.00	FNUZ50TX1
●	1.50/7.00	FNUZ50TX2 <sup>(1)</sup>

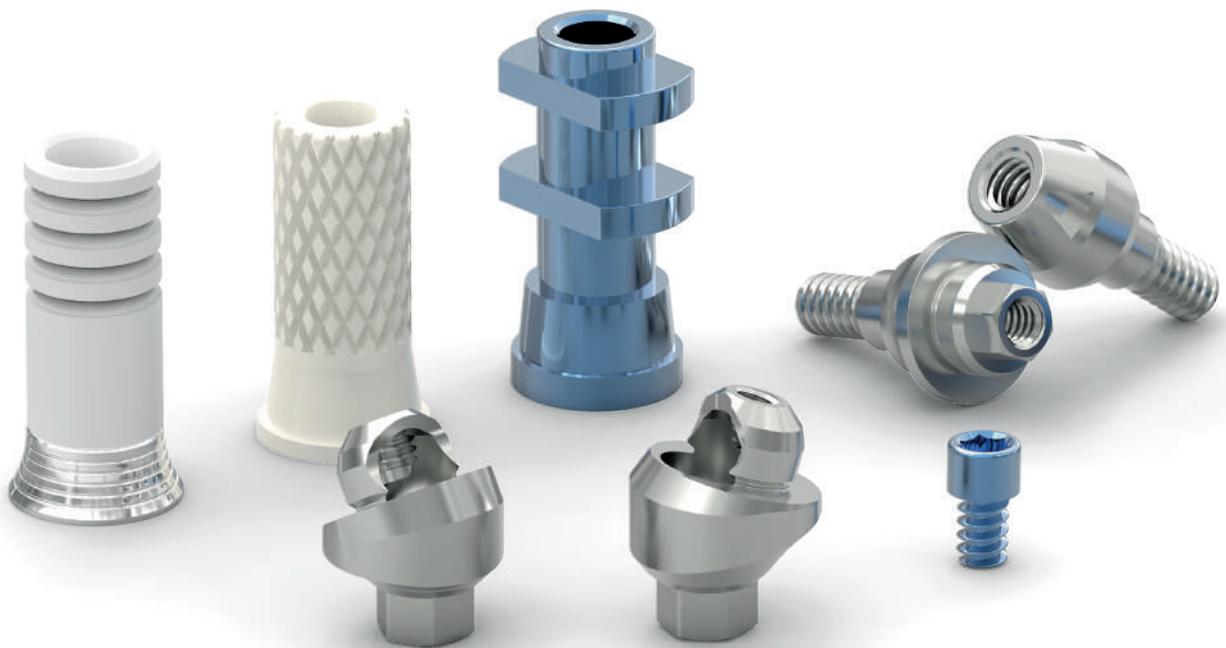


All Ti-Base ZiaCam Tx30 abutments come with a special Kiran Tx30 screw with surface treatment Ref. DSZ2010TX (NP)/DSZ3410TX (RP/WP).

<sup>(1)</sup> Gingival heights of 150 mm have a maximum angle of 20° (all other heights have a maximum of 30°).

# Abutments

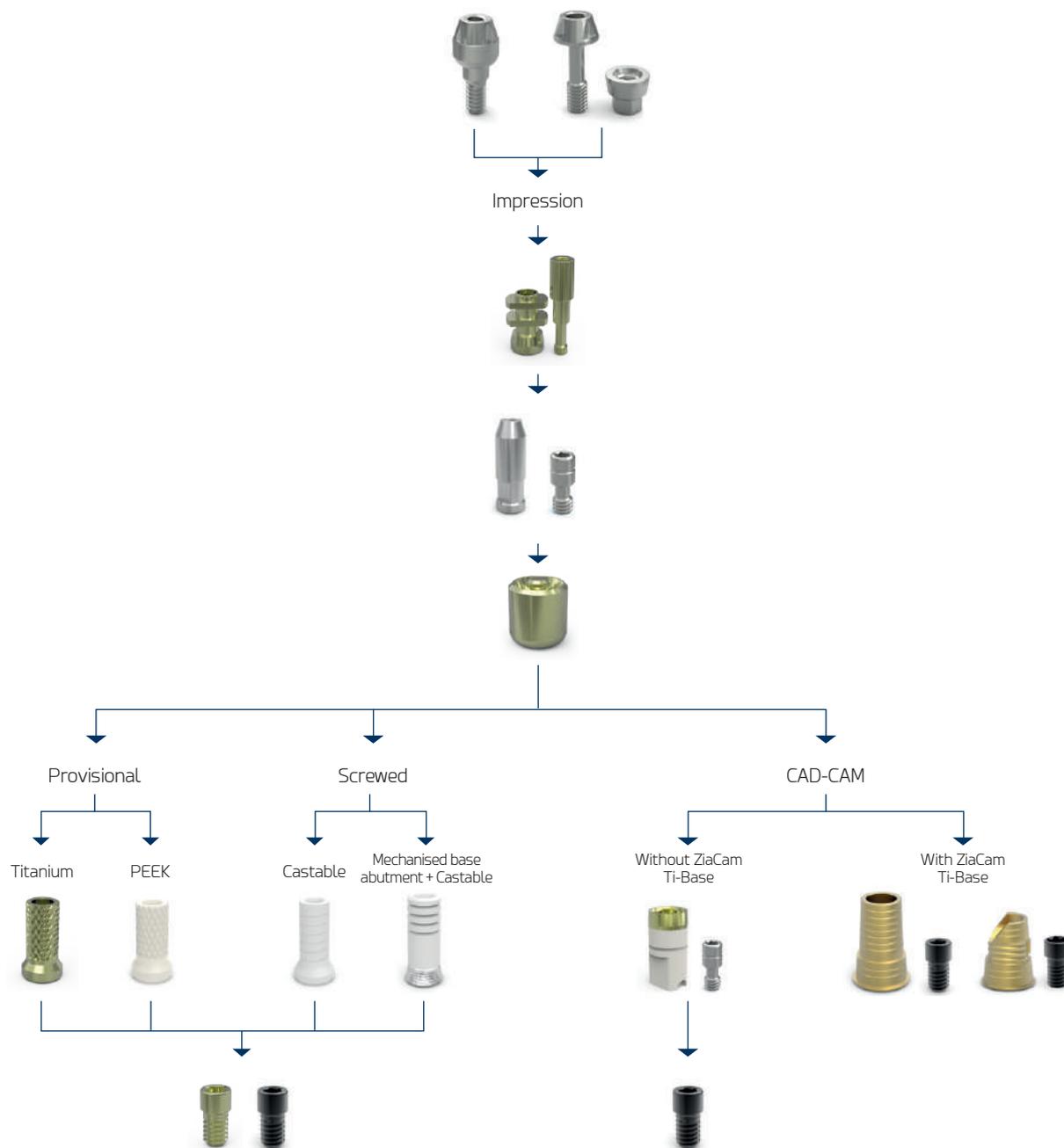
Restorations  
using transepithelials



# Abutments

## Restorations using transepithelials

### ■ Basic | Demonstrative sequence of use



For more information on the use of abutments see the "Prosthetic procedure manual" available at [www.ziacom.com/biblioteca](http://www.ziacom.com/biblioteca)



### Basic abutment



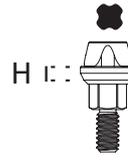
Platf.	Height (H)	Reference
●	1.00	BASICZ201
●	2.00	BASICZ202
●	3.00	BASICZ203
●	4.00	BASICZ204
●	5.00	BASICZ205
●	1.00	BASICZ401
●	2.00	BASICZ402
●	3.00	BASICZ403
●	4.00	BASICZ404
●	5.00	BASICZ405
●	1.00	BASICZ501
●	2.00	BASICZ502
●	3.00	BASICZ503
●	4.00	BASICZ504

Insertion key Ref. MABA100/MABA110



Includes the Basic abutment with sterilisable polyoxymethylene applicator (Tecaform AH-POM-C). 18° cone angle. 36° angle between abutments.

### Basic abutment



Platf.	Height (H)	Reference
●	1.00	BASICZ201N
●	2.00	BASICZ202N
●	3.00	BASICZ203N
●	4.00	BASICZ204N
●	1.00	BASICZ401N
●	2.00	BASICZ402N
●	3.00	BASICZ403N
●	4.00	BASICZ404N
●	1.00	BASICZ501N
●	2.00	BASICZ502N
●	3.00	BASICZ503N
●	4.00	BASICZ504N

Insertion key Ref. MABA100/MABA110



Basic abutment with applicator

### Basic healing abutment

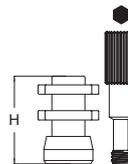


System	Height (H)	Reference
Basic	5.00	BAHAEX34

Anodised ■



### Basic impression abutment



#### Rotatory

System	Height (H)	Reference
Basic	8.00	BATC134

Anodised ■



#### Non-rotatory

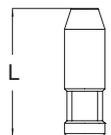
System	Height (H)	Reference
Basic	8.00	BATN134

Anodised ■



All Basic impression abutments come with a screw.

### Basic analogue



#### Rotatory

System	Length (L)	Reference
Basic	13.00	BAIAEX34



#### Non-rotatory

System	Length (L)	Reference
Basic	13.00	BAIANEX34



#### Basic 3D analogue

System	Length (L)	Reference
Basic	13.00	BAIAEX34D



# Abutments

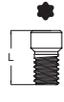
## Basic clinical screw

	
System	Reference
Basic	BDSEI3400
Length (L)	4.30

Anodised 



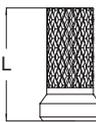
## Kiran Tx30 Basic clinical screw

	
System	Reference
Basic	BDSEI34TX
Length (L)	4.10



Special Kiran Tx30 screw with surface treatment.

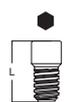
## Basic provisional abutment

	
System	Reference
Basic	BARUT10
Length (L)	8.50

Anodised 



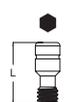
## Kiran Basic clinical screw

	
System	Reference
Basic	BDSEI3410
Length (L)	4.30



Special Kiran screw with surface treatment.

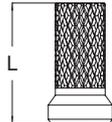
## Basic laboratory screw

	
System	Reference
Basic	BDSEI3401
Length (L)	5.50



NOT apt for use as the final clinical screw.

## Basic provisional abutment

	
System	Reference
Basic	BARUP34
Length (L)	8.50

### Rotatory

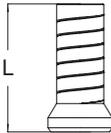


### Non-rotatory

System	Reference
Basic	BANUP34
Length (L)	8.50

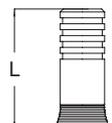


## UCLA Basic

	
System	Reference
Basic	BARUEX34
Length (L)	9.00



## Abutment base mec. Basic + Abutment calcinable

	
System	Reference
Basic	BBRU34
Length (L)	11.00

### Rotatory



### Non-rotatory

System	Reference
Basic	BBNU34
Length (L)	11.00



DIGITAL CAD-CAM

ZiaCam scanbody to Basic abutment



Rotatory

System	Length (L)	Reference
Basic	8.70	FNSYB11T



Non-rotatory

System	Length (L)	Reference
Basic	8.70	FNSYB11NT



Indicated for clinical use.

All ZiaCam scanbody to Basic abutments include a screw Ref. BDSEI3401.

ZiaCam to Basic Ti-Base



Rotatory

System	Height (Hg/Ht)	Reference
Basic	0.30/6.70	BFRU341



Non-rotatory

System	Height (Hg/Ht)	Reference
Basic	0.30/6.70	BFNU341



All ZiaCam to Basic Ti-Bases come with a Kiran special screw with surface treatment Ref. BDSEI3410.

ZiaCam Tx30 to Basic Ti-Base



Rotatory

System	Height (Hg/Ht)	Reference
Basic	0.30/5.70	BFRU341TX



Non-rotatory

System	Height (Hg/Ht)	Reference
Basic	0.30/5.70	BFNU341TX

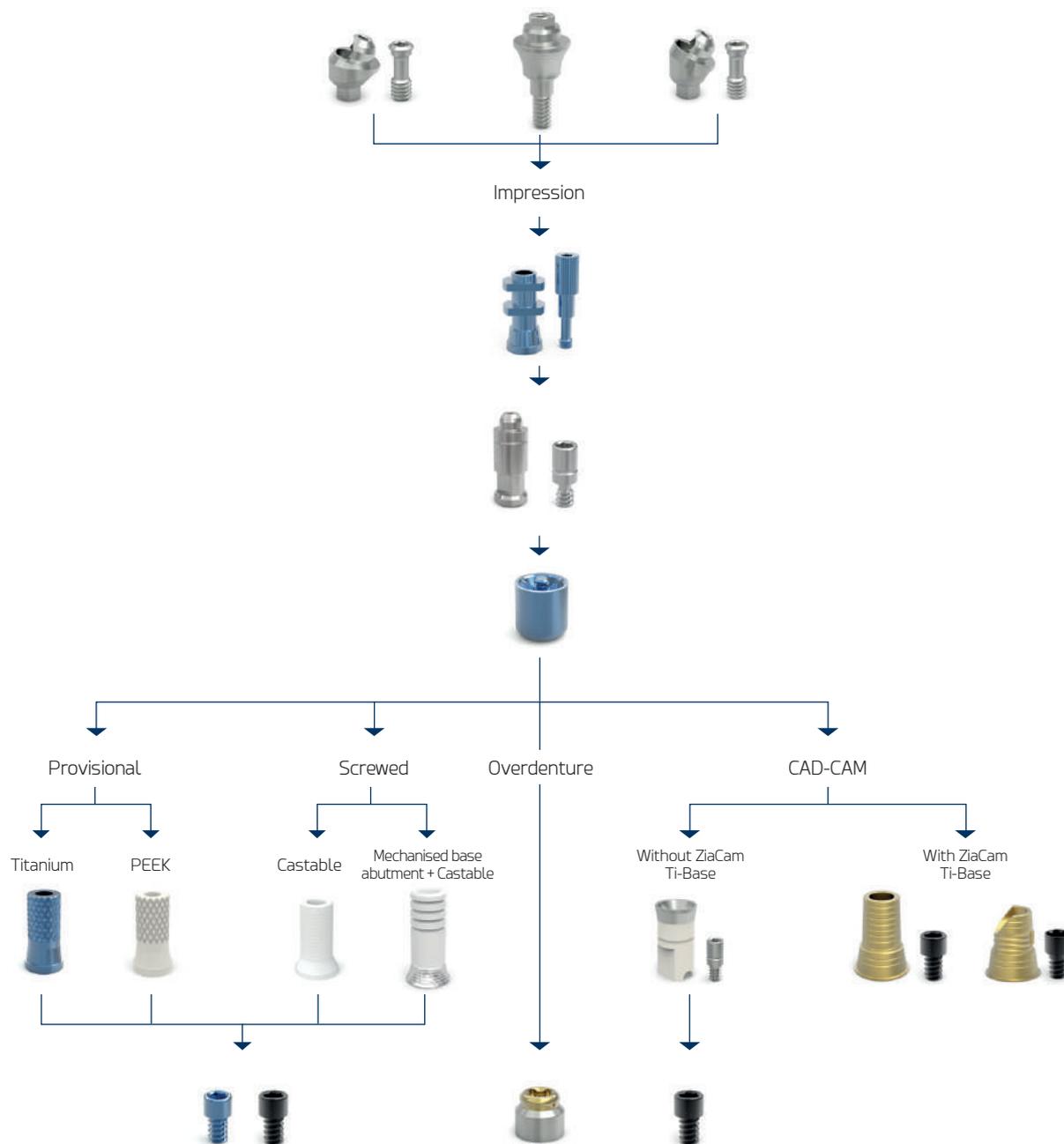


All ZiaCam Tx30 to Basic Ti-Bases come with a Kiran Tx30 special screw with surface treatment Ref. BDSEI34TX.

# Abutments

## Restorations using transepithelials

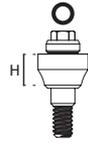
### ■ XDrive | Demonstrative sequence of use



For more information on the use of abutments see the "Prosthetic procedure manual" available at [www.ziacom.com/biblioteca](http://www.ziacom.com/biblioteca)



### XDrive straight abutment



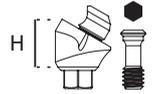
Platf.	Height (H)	Reference
●	1.00	XST00Z10
●	2.00	XST00Z20
●	3.00	XST00Z30
●	4.00	XST00Z40
●	5.00	XST00Z50
●	1.00	XST10Z10
●	2.00	XST10Z20
●	3.00	XST10Z30
●	4.00	XST10Z40
●	5.00	XST10Z50
●	1.00	XST20Z10
●	2.00	XST20Z20
●	3.00	XST20Z30
●	4.00	XST20Z40
●	5.00	XST20Z50

### XDrive 17° angled abutment



Platf.	Height (H)	Reference
●	2.00	XA200Z17
●	3.00	XA300Z17
●	4.00	XA400Z17
●	5.00	XA500Z17
●	2.00	XA210Z17
●	3.00	XA310Z17
●	4.00	XA410Z17
●	5.00	XA510Z17
●	2.00	XA220Z17
●	3.00	XA320Z17
●	4.00	XA420Z17
●	5.00	XA520Z17

### XDrive 30° angled abutment



Platf.	Height (H)	Reference
●	3.00	XA300Z30
●	4.00	XA400Z30
●	5.00	XA500Z30
●	3.00	XA310Z30
●	4.00	XA410Z30
●	5.00	XA510Z30
●	3.00	XA320Z30
●	4.00	XA420Z30
●	5.00	XA520Z30



All angled XDrive abutments come with a stainless steel positioner and screw.

Insertion key Ref. MABA200/MABA210.



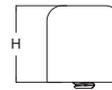
Includes the XDrive abutment with sterilisable polyoxymethylene applicator (Tecaform AH-POM-C).

21° cone angle. 42° angle between abutments.



XDrive abutment with applicator

### XDrive healing abutment

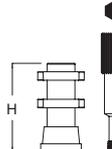


System	Height (H)	Reference
XDrive	5.00	XH103400

Anodised ■



### XDrive impression abutment



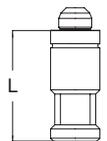
System	Height (H)	Reference
XDrive	10.50	XT103411

Anodised ■



Includes screw.

### XDrive analogue



System	Length (L)	Reference
XDrive	13.00	XIA103400



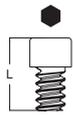
### XDrive 3D analogue

System	Length (L)	Reference
XDrive	13.00	XIA103400D



# Abutments

## XDrive clinical screw

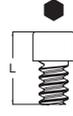


System	Length (L)	Reference
XDrive	3.50	XDS103410

Anodised ■



## Kiran XDrive clinical screw

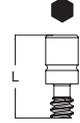


System	Length (L)	Reference
XDrive	3.50	XDS103411



Special Kiran screw with surface treatment.

## XDrive laboratory screw

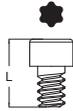


System	Length (L)	Reference
XDrive	5.10	XLB103410



NOT apt for use as the final clinical screw.

## Kiran Tx30 XDrive clinical screw



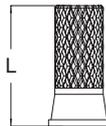
For Ti-Base ZiaCam or metal structures

System	Length (L)	Reference
XDrive	3.50	XDS3411TX



Special Kiran Tx30 screw with surface treatment.

## XDrive provisional abutment

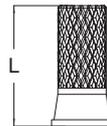


System	Length (L)	Reference
XDrive	9.50	XST3410

Anodised ■



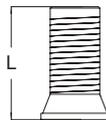
## XDrive provisional abutment



System	Length (L)	Reference
XDrive	9.50	XSP3410



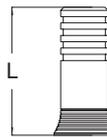
## XDrive UCLA



System	Length (L)	Reference
XDrive	8.00	XRU103400



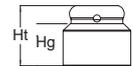
## XDrive mechanised base abutment + Castable abutment



System	Length (L)	Reference
XDrive	11.00	XBRU34



## Kirator XDrive abutment



System	Height (Hg/Ht)	Reference
XDrive	3.00/4.30	XL03400

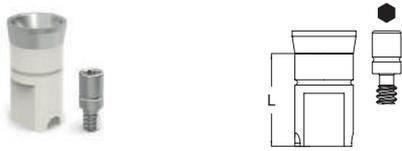
Kirator abutment with gold surface treatment.



XDrive

## DIGITAL CAD-CAM

### ZiaCam scanbody to XDrive abutment



System	Length (L)	Reference
XDrive	8.70	FNSYX11T



Indicated for clinical use.

All ZiaCam scanbody to XDrive abutments include a screw  
Ref. XLB103410.

### ZiaCam XDrive Ti-Base



System	Height (Hg/Ht)	Reference
XDrive	0.15/6.70	XFRU341



Includes Kiran special screw with surface treatment Ref. XDS103411.

### ZiaCam Tx30 XDrive Ti-Base



System	Height (Hg/Ht)	Reference
XDrive	0.15/5.70	XFRU341TX



Includes Kiran Tx30 special screw with surface treatment Ref. XDS3411TX.

## Table of abutment torques

Element/Abutment	Instrument/Tool	Torque
Cover screws/Healing abutments	Hex screwdriver 1.25 mm	Manual
Impression abutment screws	Hex screwdriver 1.25 mm	Manual
Laboratory screws	Hex screwdriver 1.25 mm	Manual
Direct-to-implant clinical screws	Hex screwdriver 1.25 mm	30 Ncm
Direct-to-implant Kiran clinical screws	Hex screwdriver 1.25 mm	30 Ncm
Basic/XDrive abutments	Insertion keys: MABA100/MABA110/MABA200/MABA210	30 Ncm
Clinical screws on Basic	Hex screwdriver 1.25 mm	25 Ncm
Kiran clinical screws on Basic	Hex screwdriver 1.25 mm	25 Ncm
Clinical screws on XDrive	Hex screwdriver 1.25 mm	20 Ncm
Kiran clinical screws on XDrive	Hex screwdriver 1.25 mm	20 Ncm
ZiaCam scanbody + screw	Hex screwdriver 1.25 mm	Manual
Kirator abutments	Insertion keys: LOSD01/LOSD02	30 Ncm
ZM-Equator abutments	Hex screwdriver 1.25 mm	30 Ncm
Tx30 abutment/screw (Variable Rotation)	Tx30 Torx screwdriver	30 Ncm

#### ATTENTION

Exceeding the recommended tightening torque for screws and abutments compromises the prosthetic restoration and could damage the implant structure.



For immediate loading: DO NOT tighten manually, attach with the final torque.

When using a screwdriver or adaptor for a contra-angle handpiece (CA), do not exceed a maximum speed of 25 rpm.



ZiNiC<sup>®</sup>MT

Surgical  
instruments



# Surgical instruments

## SURGICAL DRILLS

### Lance drill



Platf.	Diameter (Ø)	Length (L)	Reference
● ● ●	2.00	16.30	SID001M

Millimeter: 6/7/8.5/10/11.5/13/14.5



### Pilot drill



Platf.	Diameter (Ø)	Length (L)	Reference
● ● ●	1.60/2.00	17.50	OSPD20M

Millimeter: 6/7/8.5/10/11.5/13/14.5



### Stepped surgical drill



Platf.	Diameter (Ø)	Length (L)	Reference
	2.00/2.80	17.50	OSTD28M
●	2.20/3.10	17.50	OSTD31M
●	2.40/3.40	17.50	OSTD34M
●	2.60/3.80	17.50	OSTD38M
	2.70/4.10	17.50	OSTD41M

Millimeter: 6/7/8.5/10/11.5/13/14.5



### Cortical drill



Platf.	Diameter (Ø)	Reference
●	4.80	OTD02ST



See simplified surgical protocol for more information on using the cortical drill.

### Crestal surgical drill

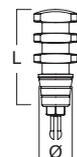


Platf.	Diameter (Ø)	Reference
Universal	4.10	CLD34
	5.10	CLD50



## PIN

### Paralleling pins



Platf.	Diameter (Ø)	Length (L)	Reference
●	3.95	11.00	PMT1
● ●	4.50	11.00	PMT2

Anodised ● NP ● RP/WP



## STOPS

### Calibrated drill stop



Platf.	Type	Length (L) Implant	Reference
● ● ●	1	6.00	ZMPD160
		7.00	ZMPD170
		8.50	ZMPD185
		10.00	ZMPD110
		11.50	ZMPD115
		13.00	ZMPD113
● ● ●	2	14.50	ZMPD114
		6.00	ZMPD260
		7.00	ZMPD270
		8.50	ZMPD285
		10.00	ZMPD210
		11.50	ZMPD215
● ● ●	Pack *	13.00	ZMPD213
		14.50	ZMPD214
		--	KZMPD100

\* Complete pack of 14 calibrated stops.



## TAPS

### Surgical tap. CA/Manual



Platf.	Diameter (Ø)	Reference
	3.30	MTAP33MC
●	3.60	MTAP36MC
●	4.00 *	MTAP40MC
●	4.40 *	MTAP44MC
	4.80 *	MTAP48MC

Millimeter: 8.5/10/11.5/13/14.5

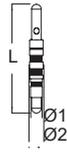
\* Millimeter: 6/7/8.5/10/11.5/13/14.5



See surgical drilling protocol for more information on using tap.

## PROBES

### Probe/Paralleling pin



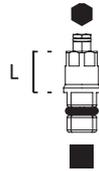
Platf.	Diameters (Ø1-Ø2)	Length (L)	Reference
	1.60/2.00	26.00	MUR10MT
	2.00/2.80	25.50	MUR20MT
	2.20/3.10	24.50	MUR30MT
	2.40/3.40	24.50	MUR40MT

Millimeter: 6/7/8.5/10/11.5/13/14.5



## KEYS

### ZPlus insertion key. Ratchet



Platf.	Length (L)	Reference
ZPlus	3.10/Mini	XSMIN *
	5.60/Short	TSMIN
	10.60/Long	TLMIN

Hexagonal 2.4 mm / Square 4x4 mm



\* Ref. XSMIN, is NOT included in the surgical box.

### ZPlus insertion key. CA



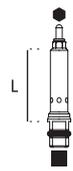
Platf.	Length (L)	Reference
ZPlus	15.90	01MMIN
	23.90	02MMIN *

Hexagonal 2.4 mm



\* Ref. 02MMIN, is NOT included in the surgical box.

### Zinic® insertion key. Ratchet



Platf.	Length (L)	Reference
	5.00/Short	SMZ *
	15.00/Long	LMZ
	5.00/Short	SMZ1
	15.00/Long	LMZ1 *

Hexagonal NP 2.10 mm

Hexagonal RP/WP 2.42 mm

Square 4x4 mm



\* Ref. SMZ/LMZ1 are NOT included in the surgical box.

### Zinic® insertion key. CA



Platf.	Length (L)	Reference
	19.50/Short	MMZ
	27.50/Long	MMZA *
	19.50/Short	MMZ1
	27.50/Long	MMZ1A *

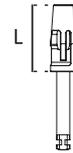
Hexagonal NP 2.10 mm.

Hexagonal RP/WP 2.42 mm.



\* Ref. MMZA/MMZ1A, are NOT included in the surgical box.

### Drill extender



Platf.	Length (L)	Reference
Universal	12.00	DEXT10



# Surgical instruments

## SCREWDRIVERS

### Screwdriver tip. CA

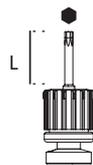


Platf.	Length (L)	Reference
Universal	20.00/Short	MESD01
	25.00/Long	MESD

● Hexagonal 1.25 mm



### Surgical screwdriver. Manual



Platf.	Length (L)	Reference
Universal	2.80/Mini	XSMSD
	9.50/Short	SMSD
	14.50/Long	LMSD
	27.00/Extralong	XLMSD

● Hexagonal 1.25 mm



### ZPlus block key



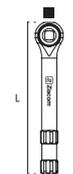
Platf.	Length (L)	Reference
ZPlus	90.00	01MOHW

● Hexagonal 2.4 mm



## RATCHETS

### Implant ratchet



Platf.	Length (L)	Reference
Universal	69.80	RATC50

■ Square 4x4 mm



### Adjustable torque wrench



Platf.	Length (L)	Reference
Universal	86.80	TORK50

■ Square 4x4 mm



# Complementary instruments

## ADAPTERS

### Ratchet extension



Platf.	Length (L)	Reference
Universal	7.20	LAEX

■ Square 4x4 mm



NOT included in the surgical box.

### Ratchet to CA adaptor



Platf.	Length (L)	Reference
Universal	7.20	MAEX

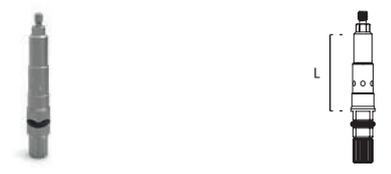
■ Square 4x4 mm



NOT included in the surgical box.

## IMPLANTS MOUNT

### Implants mount. Ratchet



Platf.	Length (L)	Reference
● Yellow	15.70	MOUNT1
● Blue ● Pink	15.70	MOUNT2



NOT included in the surgical box.

## LABORATORY TEST KIT

### Laboratory test kit



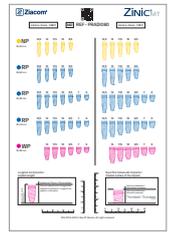
Platf.	Height (H)	Reference
● Yellow	3.65	ZLAB20
● Blue ● Pink	3.65	ZLAB34



This product does not supersede the need for careful planning of each clinical case.  
NOT included in the surgical box.

## RADIOGRAPHIC TEMPLATE

### Zinc® MT radiographic template



Platf.	Model	Reference
● Yellow ● Blue ● Pink	Zinc® MT	PRADIO80

Scales 1:1 and 1:1.25

Material: transparent acetate. Non-sterilisable material.

See the literature available at [www.ziacom.com/biblioteca](http://www.ziacom.com/biblioteca)

ZINIC<sup>®</sup>MT



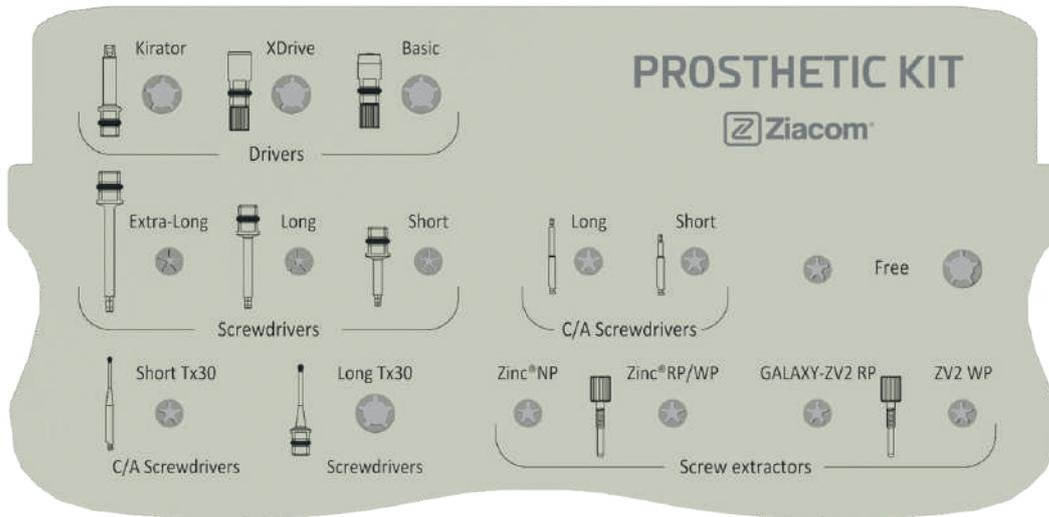


ZiNICTM<sup>®</sup>



# Prosthetic instruments

## Prosthetic box



### ■ Contents of prosthetic boxes available

Contents	Reference
Empty	BOXPN
Basic	BOXPSN
Complete	BOXPCN



Material: Radel.

Ensure boxes do not touch the walls of the autoclave to avoid damage.



### ■ Contents of prosthetic boxes

REF	Description	BOXPSN	BOXPCN
LOSD01	Kirator insert key. Ratchet	●	●
MABA100	Basic insert key. Short. Ratchet. Grade 5 ELI titanium	●	●
MABA200	XDrive insert key. Short. Ratchet. Grade 5 ELI titanium	●	●
MADW10	Screwdriver adapter handle. 4x4. Manual	●	●
SMSD1	Screwdriver tip. Ø1.25 mm. Short. Ratchet	●	●
LMSD1	Screwdriver tip. Ø1.25 mm. Long. Ratchet	●	●
XLMSD1	Screwdriver tip. Ø1.25 mm. Extralong. Ratchet		●
MESD	Screwdriver tip. Ø1.25 mm. Long. CA.	●	●
MESD01	Screwdriver tip. Ø1.25 mm. Short. CA.	●	●
MESD1TX	Tx30 screwdriver tip. Long. CA.	●	●
LMSD1TX	Tx30 screwdriver tip. Long. Ratchet	●	●
EDSZ20 *	ZPlus extractor screw. Zinic®. NP. Grade 5 ELI titanium		●
EDSZ34 *	ZPlus extractor screw. Zinic®. RP/WP. Grade 5 ELI titanium		●
EDSG34	Abutment extractor screw. Galaxy/ZV2. RP. Grade 5 ELI titanium		●
EDSG50 *	Abutment extractor screw. ZV2. WP. Grade 5 ELI titanium		●
TORK50	Regulable torque wrench. 10/20/30/40/50/60/70 Ncm	●	●

\* Product not included in the Zinic® MT system.

## KEYS

### Kirator insertion key



System	Length (L)	Reference
Kirator	13.60/Ratchet/Manual 20.00/CA	LOSD01 LOSD02 *

◆ Square 2.11 mm / ■ Square 4x4 mm



\* Ref. LOSD02 is NOT included in the prosthetic box.

### Basic insertion key. Ratchet



System	Length (L)	Reference
Basic	5.00/Short 13.00/Long	MABA100 MABA110 *

◆ Basic / ■ Square 4x4 mm



\* Ref. MABA110. is NOT included in the prosthetic box.

### XDrive insertion key. Ratchet



System	Length (L)	Reference
XDrive	6.00/Short 13.00/Long	MABA200 MABA210 *

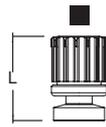
○ XDrive / ■ Square 4x4 mm



\* Ref. MABA210. is NOT included in the prosthetic box.

## SCREWDRIVERS

### Screwdriver adapter handle

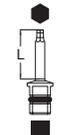


Platf.	Length (L)	Reference
Universal	12.90	MADW10

■ Square 4x4 mm



### Screwdriver tip. Ratchet



Platf.	Length (L)	Reference
Universal	9.50/Short	SMSD1
	14.50/Long	LMSD1
	27.00/Extralong	XLMSD1

■ Square 4x4 mm



### Screwdriver tip. CA



Platf.	Length (L)	Reference
Universal	20.00/Short	MESD01
	25.00/Long	MESD



### Tx30 screwdriver tip. CA



System	Length (L)	Reference
Tx30	26.00/Short	MESD01TX *
	32.00/Long	MESDTX



Do not exceed 30 Ncm, as it could cause severe damage to the screwdriver and screw.

\* Ref. MESD01TX is NOT included in the prosthetic box.

### Tx30 screwdriver tip. Ratchet



System	Length (L)	Reference
Tx30	12.00/Short	SMSD1TX *
	18.00/Long	LMSD1TX

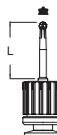
■ Square 4x4 mm



Do not exceed 30 Ncm, as it could cause severe damage to the screwdriver and screw.

\* Ref. SMSD1TX is NOT included in the prosthetic box.

### Tx30 prosthetic screwdriver. Manual



System	Length (L)	Reference
Tx30	12.00/Short	SMSD1TX *
	18.00/Long	LMSD1TX *



Do not exceed 30 Ncm, as it could cause severe damage to the screwdriver and screw.

\* Ref. SMSD1TX/LMSD1TX are NOT included in the prosthetic box.

# Prosthetic instruments

## EXTRACTOR SCREW

### ZPlus extractor screw



Platf.	Length (L)	Reference
● Yellow	25.00	EDSZ20
● Blue ● Pink	23.70	EDSZ34

Anodised ■ NP ■ RP/WP



### Galaxy/ZV2 abutment extractor screw



Platf.	Length (L)	Reference
■ Yellow	25.00	EDSG34 *
■ Pink	26.80	EDSG50 *

Anodised ■ RP ■ WP



\* Product not included in the Zinic® MT system.

## RATCHETS

### Regulable torque wrench



Platf.	Length (L)	Reference
Universal	86.80	TORK50

■ Square 4x4 mm



## Complementary instruments

### CA to ratchet adapter



Platf.	Length (L)	Reference
Universal	12.00	MC10Z

■ Square 4x4 mm



NOT included in the prosthetic box.

### Extractor + Retainer inserter handle



Platf.	A Length (L)	B Length (L)	Reference
Kirator	81.50	110,40	MBE13610
ZM-Equator			



NOT included in the prosthetic box.

### Retainer inserter



Platf.	Length (L)	Reference
Kirator	32.00	MBE13602
ZM-Equator	32.00	MBE13603



Kirator / ZM-Equator plastic coping insertion tool.  
NOT included in the prosthetic box.

### Retentive joints instruments



Platf.	Measure	Reference
Universal	2x1	RRE10030

Pack of 10 units.

Simplified  
surgical  
protocol

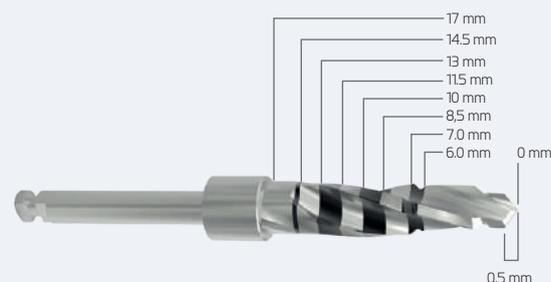


# Simplified surgical protocol

## Characteristics of the Zinic® MT drilling system

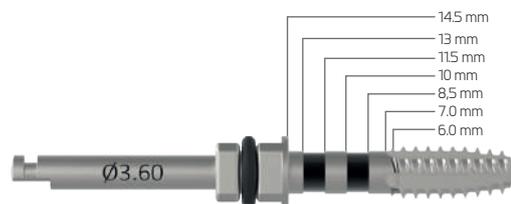
### ■ Ziacom® drill system

Ziacom® implant system drills are made from stainless steel. A laser marking on the bur's shank identifies its inner and outer diameters and its length, while the horizontal laser marked bands on the active section corresponds to the different lengths of the implants (drills graduated in mm). The bur tip is 0.5 mm long and is not included in the laser marked measurements.



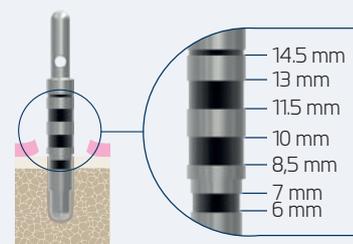
### ■ Ziacom® taps

Taps are available for contra-angle handpieces. The laser marking on the tap's shank identifies its diameter, while the horizontal laser marked bands on the active section corresponds to the different lengths.



### ■ Probe

Check the depth of the surgical site, especially when not using drill stops. To check the surgical bed axis, the paralleling pins are available in different diameters according to the drilling sequence.



### ■ Short and long insertion tools for ratchets and contra-angle handpieces

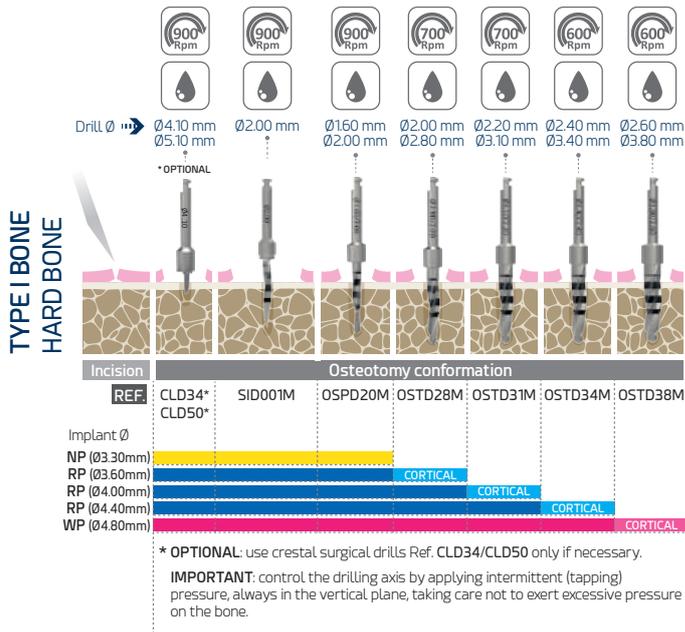
The insertion tool for contra-angle handpieces or ratchets has been designed for transporting implants from their No Mount vial to the surgical site ready for insertion.



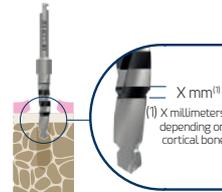
# Drilling protocol - ZPlus / Ziacom® No Mount

Rotation 
 Irrigation required 
 Drill diameter 
 Torque

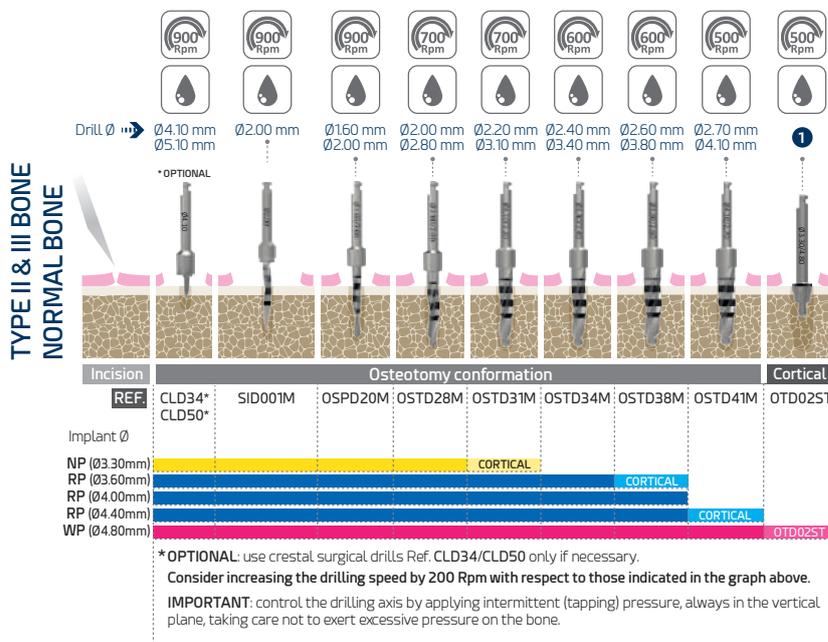
The specified speeds are recommended



**CORTICAL DRILLING**



Whenever the protocol indicates **CORTICAL**, drilling to the depth corresponding to the cortical bone thickness is recommended on a case-by-case basis.



**CORTICAL DRILL USAGE**



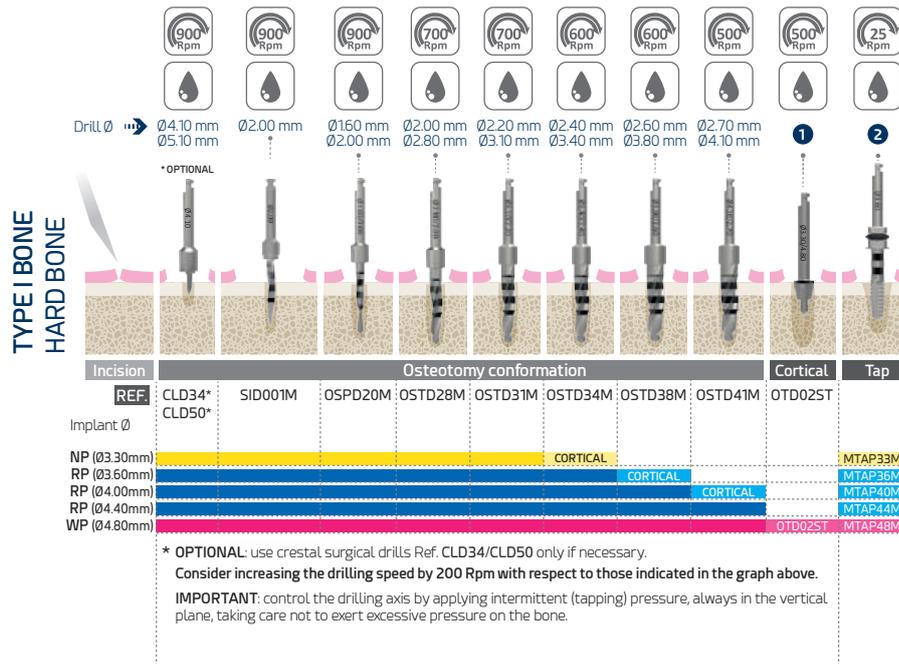
Cortical drill usage will be compulsory whenever this is indicated in the protocol and will depend on bone type.

# Simplified surgical protocol

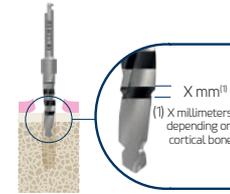
## Drilling protocol - ZPlus / Ziacom® No Mount

Rotation Irrigation required Drill diameter Torque

The specified speeds are recommended

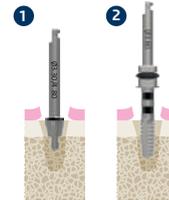


### CORTICAL DRILLING



Whenever the protocol indicates **CORTICAL**, drilling to the depth corresponding to the cortical bone thickness is recommended on a case-by-case basis.

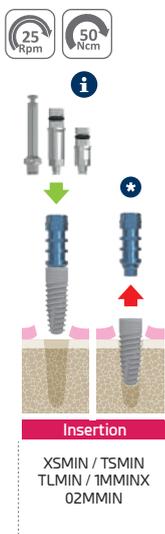
### CORTICAL DRILL AND SURGICAL TAP USAGE



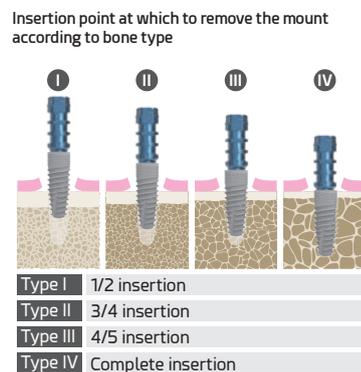
Cortical drill and surgical tap usage will be compulsory whenever this is indicated in the protocol and will depend on bone type.

## Implant insertion - ZPlus

### ■ Insertion



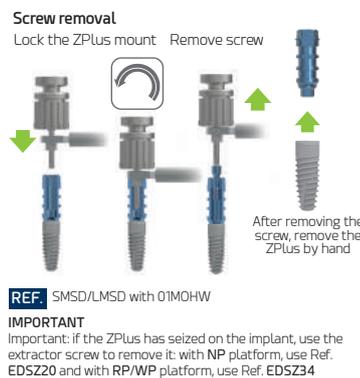
### ■ Removing the mount \*



#### Recommendations for ZPlus Mount

In the event of galling or cold welding between the ZPlus mount and the implant after insertion, do not handle the mount with instruments in a way that could reduce primary stability. Use only the Ziacom® extractor screw Ref. EDSZ20 (NP) or EDSZ34 (RP/WP).

On inserting the extractor screw (using a 1.25-mm screwdriver and manual torque) in a clockwise direction, the apex makes contact with the implant, unlocking the mount and releasing it for removal.



### ■ Direct insertion



#### IMPORTANT

The maximum torque for insertion of the dental implants is 50 Ncm. Exceeding the maximum insertion torque indicated for the implants can cause serious damage to the dental implant, its connection, the Mount and the clinical screw included. Refer to the surgical protocol for specific Mount removal considerations, according to implant connection type and bone type.

# Implant insertion - Ziacom® No Mount

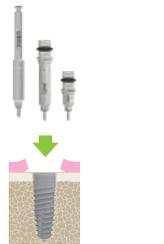
## About Ziacom® No Mount

Ziacom® implants are available without a mount. This blister pack format allows dentists to comfortably remove the implant from the vial and place it in the surgical site using a direct instrument in one single step, thereby saving time during the operation. The No Mount implant facilitates instrumentation in reduced spaces and allows better visibility of the surgical site.

The new direct-to-implant Zinic® insertion keys with Ref. **SMZ/LMZ/MMZ/MMZA (NP)** and **SMZI/LMZI/MMZI/MMZIA (RP/WP)** have a centring device on their rotatory part to avoid damaging the connection and a washer on the active end to allow the implant to be quickly and safely moved to the surgical site.



## Direct insertion



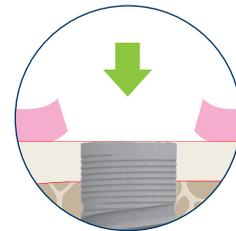
Insertion

- SMZ / LMZ (NP) ●
- MMZ / MMZA (NP) ●
- SMZI / LMZI (RP/WP) ●●
- MMZI / MMZIA (RP/WP) ●●

## Crestal placement

The Ziacom® implant platform should be placed at bone crest level.

RECOMMENDED subcrestal position



### IMPORTANT



The maximum torque for insertion of the dental implants is 50 Ncm. Exceeding the maximum insertion torque indicated for the implants can cause serious damage to the dental implant, its connection, the Mount and the clinical screw included. Refer to the surgical protocol for specific Mount removal considerations, according to implant connection type and bone type.

## Bone types

Lekholm and Zarb classification (1985)



**TYPE IV BONE - SOFT BONE**

- Thin cortical layer surrounding a low-density trabecular bone.



**TYPE II & III BONE - MEDIUM BONE**

- Type II: thick layer of compact bone surrounding a dense trabecular bone.
- Type III: thin cortical layer surrounding a dense trabecular bone.



**TYPE I BONE - HARD BONE**

- Composed almost entirely of homogeneous compact bone.

# Simplified surgical protocol

## General recommendations

### Consider during intervention



**Surgical drills** must be inserted into the contra-angle handpiece with the motor stopped, ensuring that they are seated and rotate properly before starting drilling. Treat drills with the utmost care; the slightest damage to the tips could compromise their effective operation.



**Each instrument** should only be used for the specific use recommended by the manufacturer.

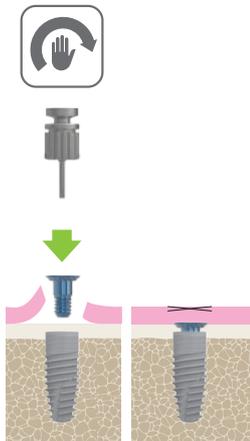


**Damaged instruments** must be disposed of according to local regulations.



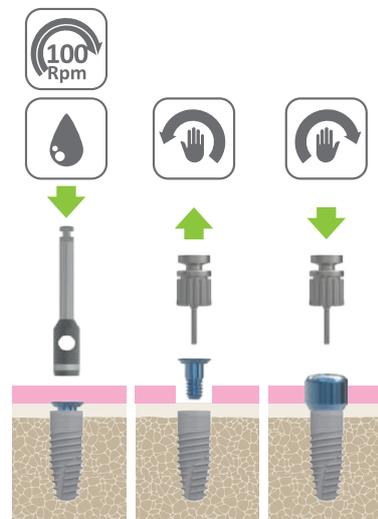
**Implantologists should keep** one of the identification labels supplied with the product in the patient's file so that it may be traced correctly.

### Handling of cover screw



Remove the cover screw from its vial using the hex screwdriver in a counter-clockwise direction. Move the cover screw towards the implant while taking care not to drop it and cause its accidental ingestion. Insert the cover screw into the implant and tighten it using manual torque in a clockwise direction.

### Preparation for second surgical phase



#### Placement of healing abutment

The healing abutment should correspond to the implant platform, considering the option of applying the platform switch technique with anatomical abutments and be in accordance with the height of the gingival tissue to avoid abutment occlusion. Excessive height could expose the implant to premature loading, compromising the osseointegration process.

### IMPORTANT WARNINGS

#### About implant insertion

**Excessive compression of the bone can lead to failure of implant osseointegration.**

**Failure to follow the steps described** in the surgical sequence may result in:

- Lack of primary stability due to loss of supporting bone.
- Difficulties during implant insertion.

**Exceeding the torque (50 Ncm)** when inserting the implant may result in:

- Irreversible deformation of the implant's internal/external connection.
- Irreversible deformation of the implant insertion instrument.
- Difficulty disassembling the instrument/implant assembly.

#### Maximum insertion torque and speed

The recommended insertion torque ranges from **35 to 50 Ncm**, according to each case, and is not limited to a single torque.



The implant should be inserted with controlled torque based on the bone density and quality of the implant placement site:

Without partial or complete **disassembly of the implant Mount**, in **type III and IV bone, respectively**, with recommended torque of **35 to 50 Ncm** to avoid deformation of the Mount or cold welding between the Mount and the implant.

With partial or complete **disassembly of the implant Mount** and using a direct-to-implant key, in **type I and II bone, respectively**, with recommended torque of **35 to 50 Ncm** to avoid deformation of the connection and excessive bone compression.

**Insertion instrument or CA screwdrivers:** use a maximum speed of:



#### Zinic® MT implants

The Ziacom® surgical protocol establishes the crestal position of the implant platform.

To avoid cortical stress and deformation of the key and/or implant connection, and also to avoid galling between the implant and the Mount, the recommended maximum speed (**25 Rpm**) and maximum torque (**50 Ncm**) must be respected when inserting with a contra-angle (CA) handpiece.

When using a ratchet, it is necessary to monitor resistance during insertion. If there is any resistance, the implant should be removed by turning it twice (to release the bone from the tension created and free the thread) and then, after a few seconds, the implant should be inserted again, repeating this process as many times as is necessary.

Always consult the surgical and prosthetic protocols published in this catalogue, as well as the other documents available in the "Reference literature" section of our website [www.ziacom.com/biblioteca](http://www.ziacom.com/biblioteca) which explained the procedures, protocols and instructions for use before using the Zinic® MT system by Ziacom®.



# Cleaning, disinfection and sterilisation



# Cleaning, disinfection and sterilisation

The protocols described in this section must only be carried out by personnel qualified to clean, disinfect and sterilise the dental materials specified here in.

## Cleaning and disinfection instructions

Applicable for instruments, surgical and prosthetic boxes and plastic retainer caps.

### ■ Disassembly

1. Dismount\* the appropriate instruments, for example manual ratchets, drills or drill stops.
2. Remove the various components from the surgical or prosthetic box for correct cleaning.

### ■ Cleaning and disinfection

For disinfecting instruments and surgical boxes:

1. Submerge the instruments in a detergent/disinfectant solution\*\* suitable for dental instruments to help eliminate any adhered biological residues. If an ultrasound bath is available\*\*\*, confirm that the detergent/disinfectant solution is indicated for use with this type of equipment.
2. Manually remove any biological residues with a non-metallic brush and pH-neutral detergent.
3. Rinse with copious water.
4. When cleaning the surgical and prosthetic boxes, always use a pH-neutral detergent and non-abrasive utensils to avoid damaging the surface of the boxes.
5. Dry the materials with disposable cellulose, lint-free clothes or compressed air.

For disinfecting plastic caps and spacers:

1. Submerge in a neat benzalkonium chloride solution for 10 minutes.
2. Rinse with distilled water.
3. Dry the caps and spacer before use.

### ■ Inspection

1. Check that the instruments are perfectly clean; if not, repeat the cleaning and disinfection steps.
2. Discard any instruments with imperfections and replace them before the next procedure.
3. Check that the instruments and the surgical and prosthetic boxes are perfectly dry before reassembling the parts and proceeding to their sterilisation.

\* See the assembly disassembly manuals at [www.ziacom.com/biblioteca](http://www.ziacom.com/biblioteca)

\*\* Follow the instructions from the disinfectant's manufacturer to determine the correct concentrations and times.

\*\*\* Follow the instructions from the ultrasound bath's manufacturer to determine the correct temperature, concentration and times.

## Sterilisation instructions for steam autoclave

Applicable to orthodontic implants, abutments, and surgical and prosthetic instruments and boxes.

1. Introduce each material separately in individual sterilisation bags, then seal the bags. For joint sterilisation, place the instruments in their surgical box, introduce the box into a sterilisation bag and seal the bag.
2. Place the bags to be sterilised in the autoclave.
3. Sterilise in a steam autoclave at 134°C/273°F (max. 137°C/276°F) for 4 min (minimum) and at 2 atm. Torque wrenches must be sterilised in 3 vacuum cycles at 132°C/270°F for a minimum of 1.5 minutes and vacuum-dried for a minimum of 20 minutes.

**For the United States only:** The validated and recommended sterilisation cycle for the US must be performed in a steam autoclave at 132°C/270°F for at least 15 min and with the drying time of at least 15 - 30 min.

#### IMPORTANT

Make sure the drying stage is allowed to run to completion, otherwise the products may be damp.

Check the sterilisation equipment if the materials or sterilisation bags are damp at the end of the sterilisation cycle.

Perform the necessary maintenance actions on the autoclave according to the established periodicity and following the manufacturer's instructions.



## Storage of Ziacom® products

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- Store the products in their original packaging and in a clean, dry location until they are used.
- After sterilisation, keep the products in the sealed sterilisation bags and in a clean, dry location.
- Never exceed the use by date indicated by the manufacturer of the sterilisation bags.
- Always follow the indications of the manufacturer of the sterilisation bags.

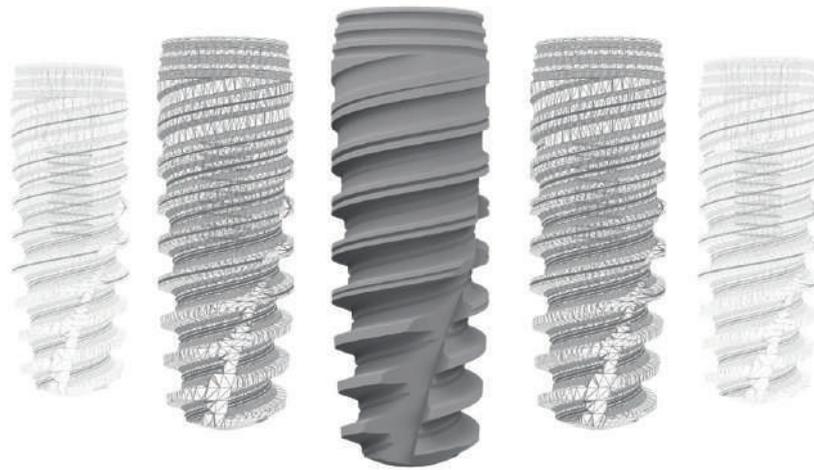
## General recommendations

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- Never use damaged or dirty material; never reuse single-use products. The user is responsible for following the instructions described in this document correctly.
- The attention to piercing or sharp elements. Gloves should be worn when cleaning the materials to avoid accidents during handling.
- Follow the safety instructions indicated by the manufacturer of the disinfectant agent.
- The product's sterility cannot be guaranteed if the sterilisation bag is open, damaged or damp.
- Respect all stages of the sterilisation process. If the materials or sterilisation bags contain traces of water or moisture, check the autoclave and repeat the sterilisation.
- Orthodontic abutments and implants are supplied UNSTERILISED and must always be sterilised before use.
- Instruments and surgical and prosthetic boxes are supplied UNSTERILISED and must always be sterilised before use and cleaned and disinfected after use.
- The sterilisation, cleaning and disinfection processes gradually deteriorate the instruments. Inspect the instruments thoroughly to detect any signs of deterioration.
- Avoid contact between products made from different materials (steel, titanium, etc.) during the cleaning, disinfection and sterilisation processes.
- Ziacom Medical SL recommends these instructions are implemented for the correct maintenance and safety of their products; accordingly, the company refuses any liability for any damage to the products that could arise if the user applies alternative cleaning, disinfection and sterilisation procedures.

See [www.ziacom.com/biblioteca](http://www.ziacom.com/biblioteca) for the latest version of the cleaning, disinfection and sterilisation instructions.





See the latest version of the general conditions of sale on our website [www.ziacom.com](http://www.ziacom.com)

Check the availability of each product in your country.

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