

ZM4

External hex connection implants



ZM4

External hex connection implants



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, 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.

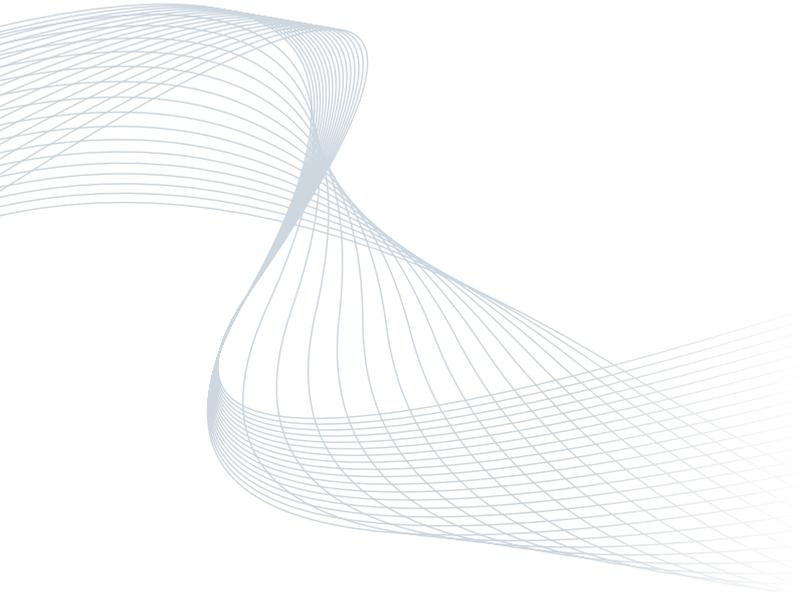
See the Ziacom Medical SL Warranty Programme (available on the website or by contacting Ziacom Medical SL, their affiliates or authorised distributors).

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

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Index

The Company	06
Together for health	06
Ziacom® quality	06
Zitium® titanium	06
Investment in innovation and training	07
Ziacom® around the world	07
- Regional headquarter	07
- Subsidiaries	07

ZM4 External hex connection implants

ZM4 implants	10
Characteristics	10
Diameters and lengths	11
Surface treatments	12
- Titansure surface treatment	12
Product presentation	14
ZM4 references	15
Recommendations for use	16
How to use this catalogue	17
Product sheet	17
Symbology	17
Abutments Direct-to-implant restorations	20
Abutments Restorations using transepithelials	30
Surgical instruments	40
Prosthetic instruments	50
Simplified surgical protocol	54
Cleaning, disinfection and sterilisation	60

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 abutments 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.

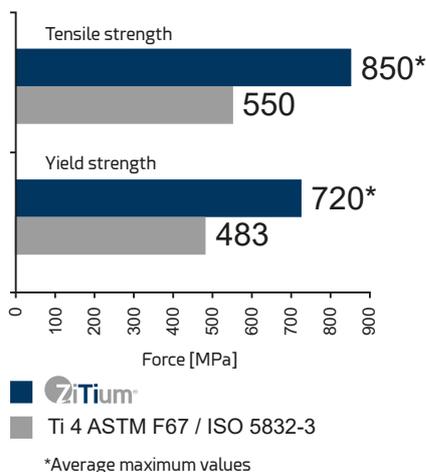
Zitium® titanium

*See approved models

Ziacom® **ZM4** 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



*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® across the globe

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

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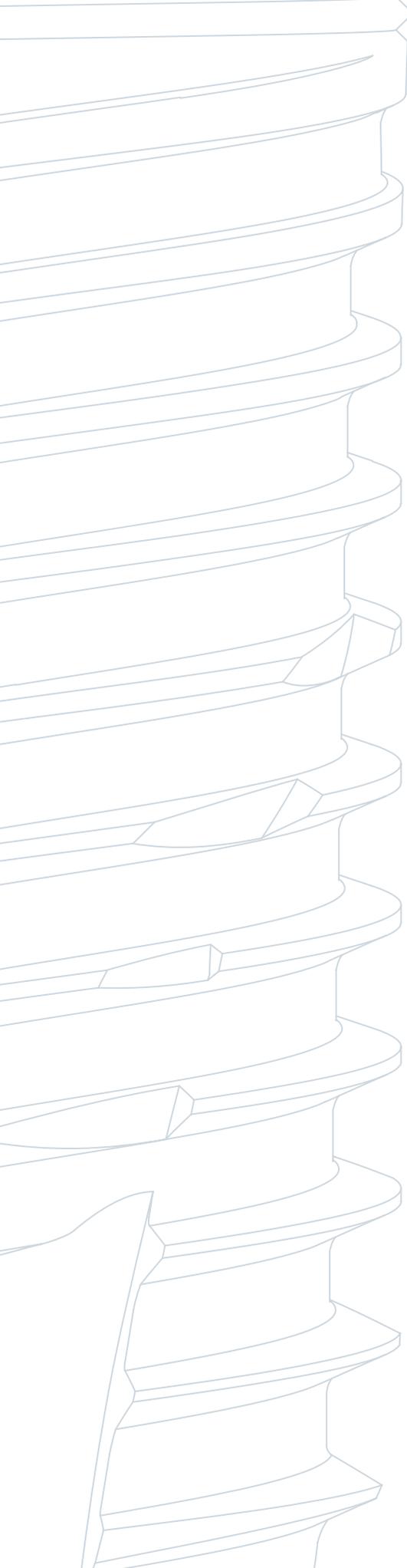
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Please see the up-to-date list of Ziacom® distributors at www.ziacom.com or email us at export@ziacom.com





ZM4

ZM4

External hex connection implants



ZM4 implants

Characteristics

CONNECTION

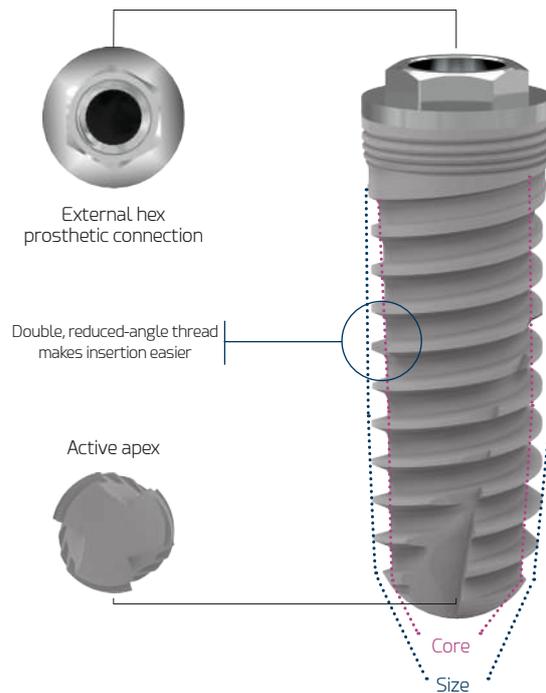
- External hex connection
- Screw channel with upper guide: facilitates screw insertion

NECK/COLLAR

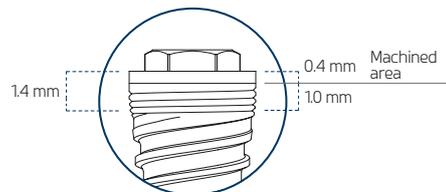
- 0.4 mm machined ring: allows the prosthetic gap to be raised with respect to the bone crest in average/thick biotypes; avoids exposing the treated surface of irregular crests
- Microthread design: preserves marginal bone
- Microthread extension: improves load distribution
- Macrodesign: optimal cortical 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 underdrilling
- Transverse apical windows: collect remnants of bone during insertion
- Optimised morphology: high primary stability
- Atraumatic apex: no damage to anatomical structures



Dimensions of the implant's neck/collar



Diameters and lengths

Ø DIAMETER	Ø PLATFORM	LENGHT (L)				
		8,5	10	11,5	13	14,5
 NP 3,30	3,30					
 RP 3,70	4,10					
 RP 4,00						
 RP 4,30						
 WP 4,60	5,00					
 WP 5,00						

Dimensions in mm.

ZM4 implants

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.

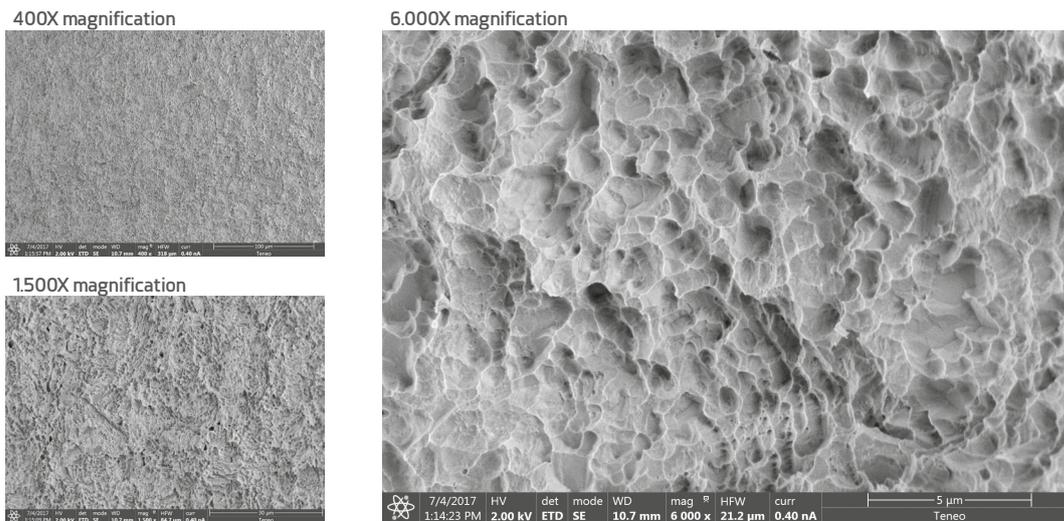
With our **Titansure** surface treatment, at Ziacom Medical we have obtained a contaminant-free surface topography and optimal average macro- and microporosity values, which are key specifications for achieving prompt and proper osseointegration and, in turn, extremely reliable and predictable implants.

■ 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.

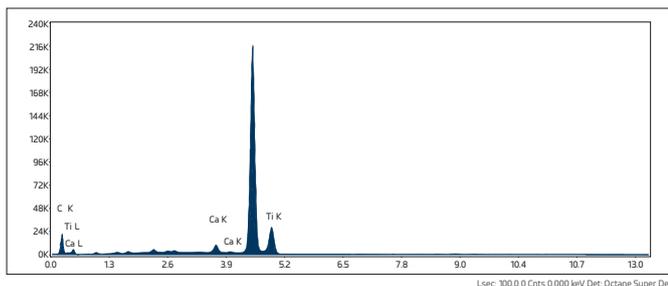
Surface morphology analysis

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 %).

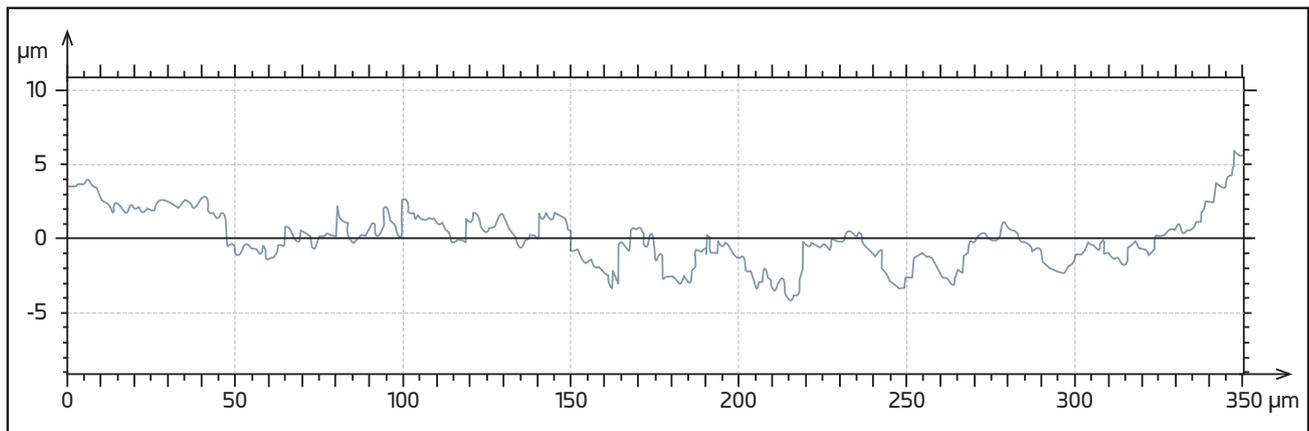
Surface roughness analysis

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





ZM4 implants

Product presentation

■ Blister packaging

Available for implants with **Titansure** surface treatment. Blister packs are heat sealed and include product labels in order to be able to trace products correctly and a flap for easy opening in the clinic but while preventing accidental opening.



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

■ ZPlus mount

Options for the ZM4 include the **ZPlus** mount, a multi-functional abutment made from grade 5 ELI titanium (medical grade), which allows easy handling of the implant during surgical procedures. In addition, the **ZPlus** mount concept is based on reducing treatment costs, as it works equally well as as an implant mount, impression abutment or provisional abutment for cement- or screw-retained restorations.

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

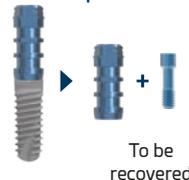
As already indicated, the **ZPlus** mount can be used as a provisional abutment. In this case, the **ZPlus** should be prepared extraorally by seating it on the analogue, preferably on a laboratory model, or by attaching it to a holder. Check also the structural integrity of the mount and screw, to ensure 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** fixation screw is well seated and that the connection is secure.

IMPORTANT

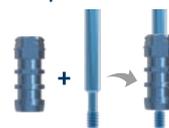
Always follow the surgical protocol when inserting the implant. This will protect the mount and screw from possible damage which could prevent its being used later as an impression and/or provisional abutment. Use each **ZPlus** only with the implant to which it belongs. To avoid mix-ups, keep the **ZPlus**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

Uses of ZPlus mount

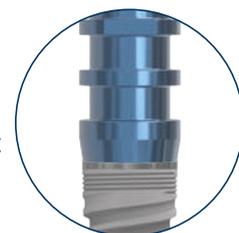
As an implant mount



As an impression abutment



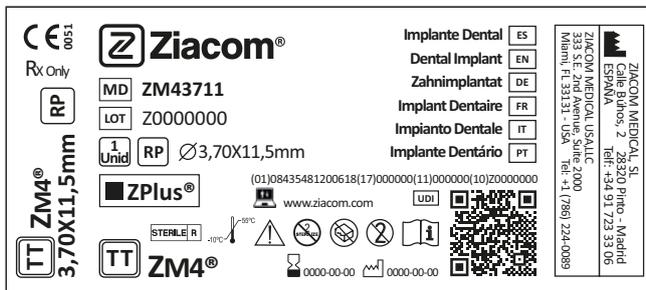
As a provisional abutment



View of implant + mount

Outer identification label

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



Description of the symbology used

- CE ⁰⁰⁵¹ MDD CE certification and notified body
- MD Name of the medical device
- LOT Number of product batch
- Patient information website
- UDI Unique device identification
- STERILISED Sterilised using radiation
- Temperature restriction
- Caution, consult accompanying documents
- Do not resterilise
- Do not use if the packaging is damaged
- Non-reusable product
- Consult the instructions for use
- Expiry date of the product
- Date of manufacture
- Product manufacturer
- TT Titansure surface treatment
- TT Titansure Active surface treatment
- Rx Only Caution: federal law prohibits dispensing without prescription

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



References of ZM4 with ZPlus - Titansure

IMPLANT

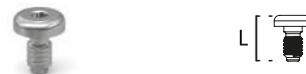
	Ø (mm)	Ø Core (mm)	Length (mm)	Ref. Titansure	
ZM4	3.30	2.80/2.50	10.0	ZM43310	
			11.5	ZM43311	
			13.0	ZM43313	
			14.5	ZM43314	
3.70	3.20/2.80	8.5	ZM43785		
		10.0	ZM43710		
		11.5	ZM43711		
		13.0	ZM43713		
4.00	3.40/3.05	14.5	ZM43714		
		8.5	ZM44085		
		10.0	ZM44010		
		11.5	ZM44011		
4.30	3.70/3.30	13.0	ZM44013		
		14.5	ZM44014		
		8.5	ZM44385		
		10.0	ZM44310		
4.60	3.90/3.55	11.5	ZM44311		
		13.0	ZM44313		
		14.5	ZM44314		
		8.5	ZM44685		
5.00	4.15/3.75	10.0	ZM44610		
		11.5	ZM44611		
		13.0	ZM44613		
		8.5	ZM45085		
		10.0	ZM45010		
		11.5	ZM45011		
		13.0	ZM45013		

Size



Sizes: 1.80 (NP) and 2.00 (RP/WP).

Cover screw*



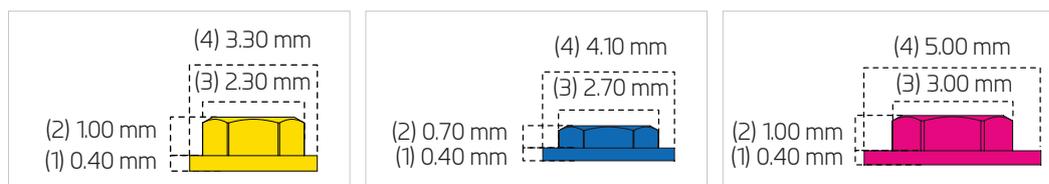
Platf.	Length (L)	Reference
	5.00	OEXNPT
	5.00	OEXRPT
	4.90	OEXWPT

Anodising NP RP WP



* Screw included with each implant.

Platform



(1) Untreated machined area. (2) External hex height. (3) Distance between faces of the external hex. (4) 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® has a wide range of implants available to cover every reconstruction possibility. The squares on the periodontal chart represent the implant diameters and platforms recommended for each tooth position.

These recommendations are valid for replacing teeth with single-unit restorations, bridges, hybrid dentures 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® recommends that clinicians take into account the scientific evidence-based warnings given in the product catalogues and on 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 of the drill.
- **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.

Periodontal chart

ZM4

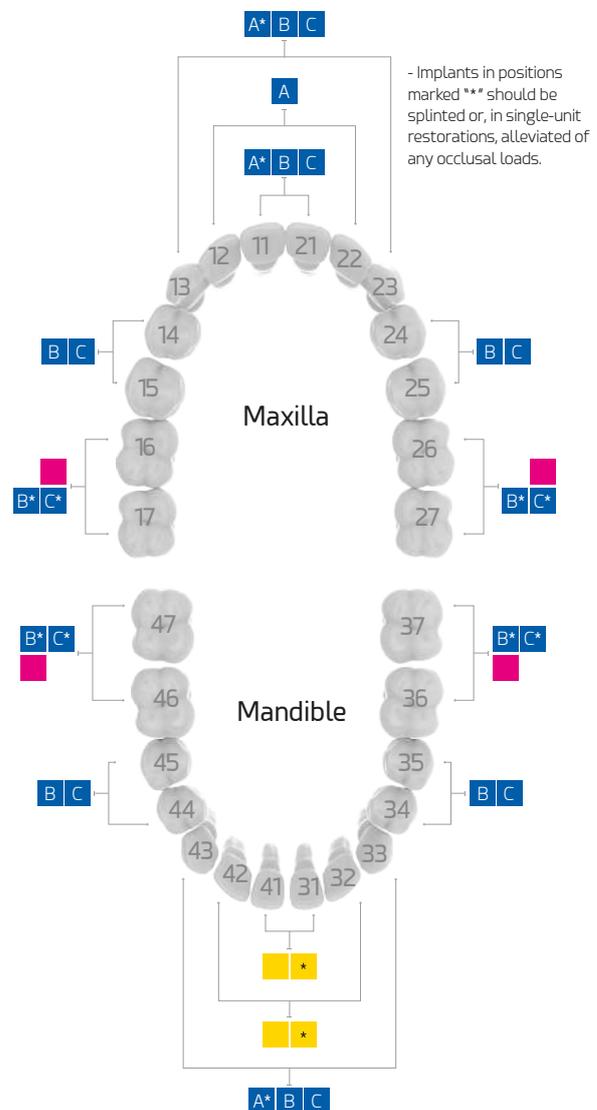
Implant diameter⁽¹⁾

■ NP ■ A RP ■ B RP ■ C RP ■ WP ■ WP
 Ø3.30 mm Ø3.70 mm Ø4.00 mm Ø4.30 mm Ø4.60 mm Ø5.00 mm

(1) Diameters available for analogue platforms

Implant crown diameter

■ NP ■ RP ■ WP
 Ø3.30 mm Ø4.10 mm Ø5.00 mm



For more information on implant size selection see the literature available at www.ziacom.com/biblioteca



Product sheet

Title, section and paragraph

Abutments
Direct-to-implant restorations

Product name

Product image

Product table:
- Platform
- System
- Height (H)
- Diameter (Ø)
- Prod. reference

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

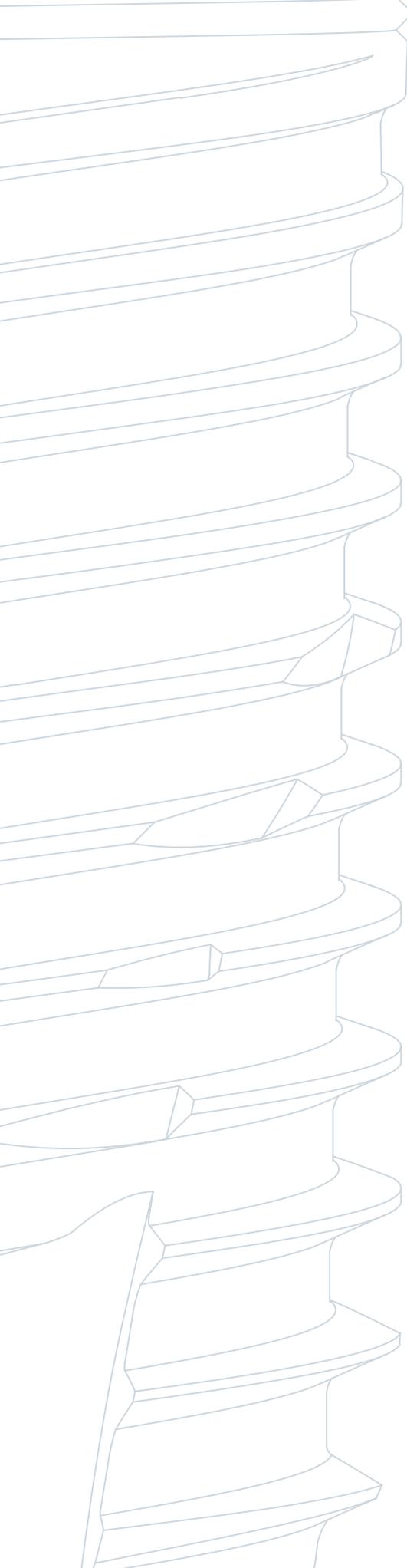
Product line diagram

Product features

Additional information

Symbology

Symbol	Meaning	Symbol	Meaning	Symbol	Meaning
	Rotatory element		Tx30 connection		Made from cobalt chromium + castable plastic
	Non-rotatory element		Size in millimeters		Made from cobalt chromium
	Use with manual torque (see table on page 47)		45° screw support		Made from PEEK
	Maximum operating torque		90° screw support		Made from castable plastic
	Ratchet torque range		Use in rotation with a CA		Made from plastic
	Galaxy connection		Maximum rotation speed		Recommended sterilisation temperature
	Screw connection		Maximum number of uses		Unsterilised product
	Kirator connection		Single-use product		Use with abundant irrigation
	Basic connection		Made from grade 5 ELI (extra-low interstitial) titanium		Maximum angle
	XDrive connection		Made from stainless steel		



ZM4

Abutments

Direct-to-implant
restorations



Abutments

Direct-to-implant restorations

2nd STAGE AND IMPRESSIONS

Healing abutment

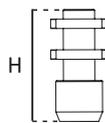


Platf.	Height (H)	Reference
■	1.50	HAEX2015
■	3.00	HAEX2030
■	5.00	HAEX2050
■	7.00	HAEX2070
■	1.50	HAEX3415
■	3.00	HAEX3430
■	5.00	HAEX3450
■	7.00	HAEX3470
■	1.50	HAEX5015
■	3.00	HAEX5030
■	5.00	HAEX5050
■	7.00	HAEX5070

Anodising ■ NP ■ RP ■ WP



Impression abutment

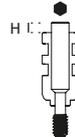


Platf.	Height (H)	Reference
■	11.80	TCEX2011
■	11.80	TCEX3411
■	7.80/Short	TCEX3402
■	11.80	TCEX5011
■	7.80/Short	TCEX5002

Anodising ■ NP ■ RP ■ WP



Impression abutment screw



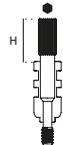
Platf.	Height (H)	Reference
■	0.00	LTSS2000
■	3.00	LTSS2001
■	6.00	LTSS2002
■	9.00	LTSS2010
■ ■	0.00	LTSS3400
■ ■	3.00	LTSS3401
■ ■	6.00	LTSS3402
■ ■	9.00	LTSS3410
■ ■	0.00	STSS3400*

Anodising ■ NP ■ RP/WP



*Screw to take impressions with the short impression transfer cap.

Impression abutment screw - Quickly Screws



Platf.	Height (H)	Reference
■	3.00	LT2001
■	6.00	LT2002
■ ■	3.00	LT3401
■ ■	6.00	LT3402

Anodising ■ NP ■ RP/WP



The height (H) is calculated based on the height of the normal impression abutment. When using the short impression abutment, consider the difference between the abutment heights.

Pick-up impression abutment

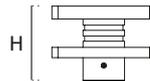


Platf.	Height (H)	Reference
	1.60	PUEX2000
	1.60	PUEX3400
	1.60	PUEX5000

Anodising NP RP WP



Pick-up impression transfer cap



Platf.	Height (H)	Reference
	7.25	CPU3410



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

Z2Plus Snap-On impression abutment

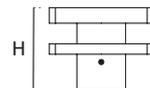


Platf.	Height (H)	Reference
	1.50	Z2NPEX10
	1.50	Z2RPEX10
	1.50	Z2WPEX10

Anodising NP RP WP



Z2Plus Snap-On impression transfer cap

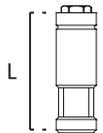


Platf.	Height (H)	Reference
	8.00	ZPU3400
	8.00	ZPU5000



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

Implant analogue



Platf.	Length (L)	Reference
	12.00	IAEX2000
	12.30	IAEX3400
	12.00	IAEX5000



3D implant analogue

Platf.	Length (L)	Reference
	12.00	IAEX2000D
	12.30	IAEX3400D
	12.00	IAEX5000D



IMPORTANT

Use the laboratory screw to attach this impression abutment.

Abutments

FIXING ELEMENTS

Clinical screw



Platf.	Length (L)	Reference
■	8.30	DSEI2000
■ ■	8.30	DSEI3400

Anodising ■ NP ■ RP/WP



Kiran clinical screw



For ZiaCam Ti-base or metal structures

Platf.	Length (L)	Reference
■	8.30	DSEI2010
■ ■	8.30	DSEI3410



Kiran special screw with surface treatment

Laboratory screw



Platf.	Length (L)	Reference
■	7.40	LB102000
■ ■	7.40	LB103400



NOT suitable for use as the final clinical screw.

Kiran Tx30 clinical screw



For ZiaCam Tx30 abutments and Ti-bases

Platf.	Length (L)	Reference
■	6.80	DSEI2010TX
■ ■	6.80	DSEI3410TX



Kiran special screw with surface treatment

Use only with Tx30 screwdrivers

PROVISIONAL

Provisional abutment



Rotatory

Platf.	Length (L)	Reference
■	9.50	RUEXT2010
■	9.50	RUEXT3410
■	9.50	RUEXT5010

Anodising ■ NP ■ RP ■ WP



Non-rotatory

Platf.	Length (L)	Reference
■	9.50	NUEXT2010
■	9.50	NUEXT3410
■	9.50	NUEXT5010

Anodising ■ NP ■ RP ■ WP



Provisional abutment

Aesthetic and immediate loading abutments



Rotatory

Platf.	Length (L)	Reference
■	9.50	RUEXP2010
■	9.50	RUEXP3410
■	9.50	RUEXP5010



Non-rotatory

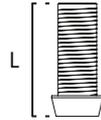
Platf.	Length (L)	Reference
■	9.50	NUEXP2010
■	9.50	NUEXP3410
■	9.50	NUEXP5010



SCREWED

UCLA

UCLA



Rotatory

Platf.	Length (L)	Reference
■	11.00	RUEX2000
■	11.00	RUEX3400
■	11.00	RUEX5000



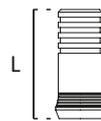
Non-rotatory

Platf.	Length (L)	Reference
■	11.00	NUEX2000
■	11.00	NUEX3400
■	11.00	NUEX5000



MECHANISED BASE UCLA

Mechanised base abutment + Castable abutment



Rotatory

Platf.	Length (L)	Reference
■	10.60	BRUEX20
■	10.60	BRUEX34
■	10.60	BRUEX50



Non-rotatory

Platf.	Length (L)	Reference
■	10.60	BNUEX20
■	10.60	BNUEX34
■	10.60	BNUEX50



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	BRUEX20TX
■	11.40	11.20	BRUEX34TX
■	11.40	11.20	BRUEX50TX



Non-rotatory

Platf.	15° Length (L)	20° Length (L)	Reference
■	11.40	11.20	BNUEX20TX
■	11.40	11.20	BNUEX34TX
■	11.40	11.20	BNUEX50TX



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



Rotatory

Platf.	20° Length (L)	25° Length (L)	Reference
■	11.20	11.00	BRUEX20TX1
■	11.20	11.00	BRUEX34TX1
■	11.20	11.00	BRUEX50TX1



Non-rotatory

Platf.	20° Length (L)	25° Length (L)	Reference
■	11.20	11.00	BNUEX20TX1
■	11.20	11.00	BNUEX34TX1
■	11.20	11.00	BNUEX50TX1

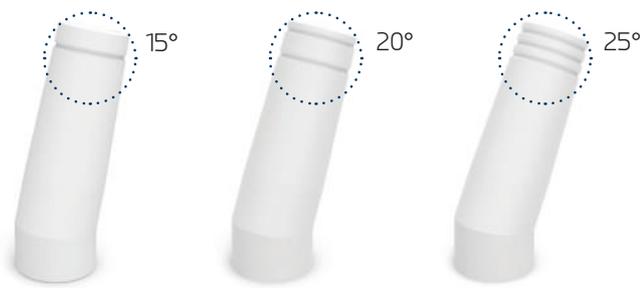


All Tx30 variable rotation abutments come with a Kiran Tx30 special screw with surface treatment (Ref. DSEI2010TX (NP)/DSEI3410TX (RP/WP)).

■ TX30 VARIABLE ROTATION ABUTMENT

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

The CoCr 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.

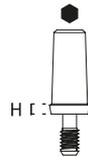


Identifying grooves for the castable angles



CEMENTED

Straight abutment



Platf.	Height (H)	Reference
■	1.50	STAEX2015
■	2.50	STAEX2025
■	3.50	STAEX2035
■	1.50	STAEX3415
■	2.50	STAEX3425
■	3.50	STAEX3435
■	1.50	STAEX5015
■	2.50	STAEX5025
■	3.50	STAEX5035

Anodising ■ NP ■ RP ■ WP



Straight abutment



Platf.	Height (H)	Reference
■	1.50	STEX2015
■	2.50	STEX2025
■	3.50	STEX2035
■	1.50	STEX3415
■	2.50	STEX3425
■	3.50	STEX3435
■	1.50	STEX5015
■	2.50	STEX5025
■	3.50	STEX5035

Anodising ■ NP ■ RP ■ WP



15° angled abutment



Platf.	Height (H)	Reference
■	1.50	A1EX2015
■	2.50	A2EX2015
■	1.50	A1EX3415
■	2.50	A2EX3415
■	1.50	A1EX5015
■	2.50	A2EX5015

Anodising ■ NP ■ RP ■ WP



25° angled abutment



Platf.	Height (H)	Reference
■	1.50	A1EX2025
■	2.50	A2EX2025
■	1.50	A1EX3425
■	2.50	A2EX3425
■	1.50	A1EX5025
■	2.50	A2EX5025

Anodising ■ NP ■ RP ■ WP



Abutments

Direct-to-implant restorations

OVERDENTURE

Kirator



Kirator abutment

Platf.	Height (H)	Reference
■	1.00	LOEX2001
■	2.00	LOEX2002
■	3.00	LOEX2003
■	4.00	LOEX2004
■	5.00	LOEX2005
■	6.00	LOEX2006
■	1.00	LOEX3401
■	2.00	LOEX3402
■	3.00	LOEX3403
■	4.00	LOEX3404
■	5.00	LOEX3405
■	6.00	LOEX3406
■	1.00	LOEX5001
■	2.00	LOEX5002
■	3.00	LOEX5003
■	4.00	LOEX5004

Gold-coloured surface treatment
Insertion key (Ref. LOSD01/LOSD02)



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

Related abutments

Kirator impression transfer cap



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 pack



System	Reference
Kirator processing pack	TP8520

Kirator processing pack comprising: Titanium housing with black reliner, spacer and purple, transparent and pink plastic retainers.

Sterilise the metal housing in the autoclave. The plastic retainers and disc must be cold sterilised. See the Cleaning and Disinfection Instructions on the Ziacom® website.

System	Retention (kg)	Reference
Kirator	Light/1.20 kg	TPK100
	Standard/1.80 kg	TPK200
	Strong/2.70 kg	TPK300

Pack of 4 Kirator plastic retainers.



DO NOT sterilise in the autoclave; use cold sterilisation. Maximum divergence of 22° between implants.

Kirator divergent processing pack



System	Reference
Kirator divergent processing pack	TP8520D

Kirator divergent processing pack comprising: Titanium housing with black reliner, spacer and purple, transparent and pink plastic retainers.

Sterilise the metal housing in the autoclave. The plastic retainers and disc must be cold sterilised. See the Cleaning and Disinfection Instructions on the Ziacom® website.

System	Retention (kg)	Reference
Kirator	Light/1.20 kg	TPK110
	Standard/1.80 kg	TPK220
	Strong/2.70 kg	TPK330

Pack of 4 Kirator plastic retainers - divergent.



DO NOT sterilise in the autoclave; use cold sterilisation. Maximum divergence of 44° between implants.

Example sequence



Kirator divergent processing pack references TPK110/TPK220/TPK330 are subject to availability.

ZM-Equator



ZM-Equator abutment with applicator



ZM-Equator abutment

Platf.	Height (H)	Reference
■	1.00	ZMEX2001
■	2.00	ZMEX2002
■	3.00	ZMEX2003
■	4.00	ZMEX2004
■	5.00	ZMEX2005
■	6.00	ZMEX2006
■	1.00	ZMEX3401
■	2.00	ZMEX3402
■	3.00	ZMEX3403
■	4.00	ZMEX3404
■	5.00	ZMEX3405
■	6.00	ZMEX3406
■	1.00	ZMEX5001
■	2.00	ZMEX5002
■	3.00	ZMEX5003
■	4.00	ZMEX5004

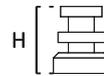
Gold-coloured surface treatment



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

Related abutments

ZM-Equator impression transfer cap

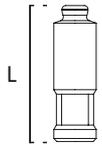


System	Height (H)	Reference
ZM-Equator	6.50	TCRK3410



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

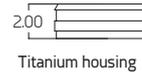
ZM-Equator analogue



System	Length (L)	Reference
ZM-Equator	13.20	IAZM01



ZM-Equator processing pack



System	Reference
ZM-Equator processing pack	ZM8520

ZM-Equator processing pack comprising: Titanium housing with black reliner, spacer and purple, transparent and pink plastic retainers.

Sterilise the metal housing in the autoclave. The plastic retainers and disc must be cold sterilised. See the Cleaning and Disinfection Instructions on the Ziacom® website.

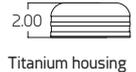
System	Retention (kg)	Reference
ZM-Equator	Light/1.20 kg	TZM100
	Standard/1.80 kg	TZM200
	Strong/2.70 kg	TZM300

Pack of 4 ZM-Equator plastic retainers.



DO NOT sterilise in the autoclave; use cold sterilisation. Maximum divergence of 22° between implants.

ZM-Equator divergent processing pack



System	Reference
ZM-Equator processing pack	ZM8520D

ZM-Equator divergent processing pack comprising: Titanium housing with black reliner, spacer and purple, transparent and pink plastic retainers.

Sterilise the metal housing in the autoclave. The plastic retainers and disc must be cold sterilised. See the Cleaning and Disinfection Instructions on the Ziacom® website.

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

Pack of 4 ZM-Equator plastic retainers.



DO NOT sterilise in the autoclave; use cold sterilisation. Maximum divergence of 44° between implants.

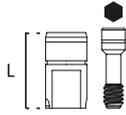
Example sequence



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 or the use of abutments see the "Prosthetic procedure manual".



Platf.	Length (L)	Reference
■	8,00	FNSYEX201T
■	8,00	FNSYEX341T
■	8,00	FNSYEX501T

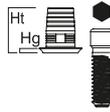
Anodised ■ NP ■ RP ■ WP



Indicated for the clinic.

All ZiaCam scanbody to implant abutments include a screw Ref. LB102000 (NP)/LB103400 (RP/WP).

Ti-Base ZiaCam



Rotatory

Platf.	Height (Hg/Ht)	Reference
■	0,50/5,00	FRUEX201
■	1,50/6,00	FRUEX202
■	0,50/5,00	FRUEX341
■	1,50/6,00	FRUEX342
■	0,50/5,00	FRUEX501
■	1,50/6,00	FRUEX502



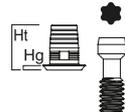
Non-rotatory

Platf.	Height (Hg/Ht)	Reference
■	0,50/5,00	FNUEX201
■	1,50/6,00	FNUEX202
■	0,50/5,00	FNUEX341
■	1,50/6,00	FNUEX342
■	0,50/5,00	FNUEX501
■	1,50/6,00	FNUEX502



All Ti-Base ZiaCam abutments come with a special Kiran screw with surface treatment Ref. DSEI2010 (NP)/DSEI3410 (RP/WP).

Tx30 ZiaCam Ti-Base



Rotatory

Platf.	Height (Hg/Ht)	Reference
■	0,50/6,00	FRUEX20TX1
■	1,50/7,00	FRUEX20TX2
■	0,50/6,00	FRUEX34TX1
■	1,50/7,00	FRUEX34TX2
■	0,50/6,00	FRUEX50TX1
■	1,50/7,00	FRUEX50TX2



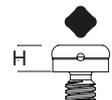
Non-rotatory

Platf.	Height (Hg/Ht)	Reference
■	0,50/6,00	FNUEX20TX1
■	1,50/7,00	FNUEX20TX2
■	0,50/6,00	FNUEX34TX1
■	1,50/7,00	FNUEX34TX2
■	0,50/6,00	FNUEX50TX1
■	1,50/7,00	FNUEX50TX2



All Ti-Base ZiaCam Tx30 abutments come with a special Kiran Tx30 screw with surface treatment Ref. DSEI2010TX (NP)/DSEI3410TX (RP/WP).

Kirator abutment.Toolbar



Platf.	Height (H)	Reference
Universal	1,80	LOTB100

Gold-coloured surface treatment.



Abutments

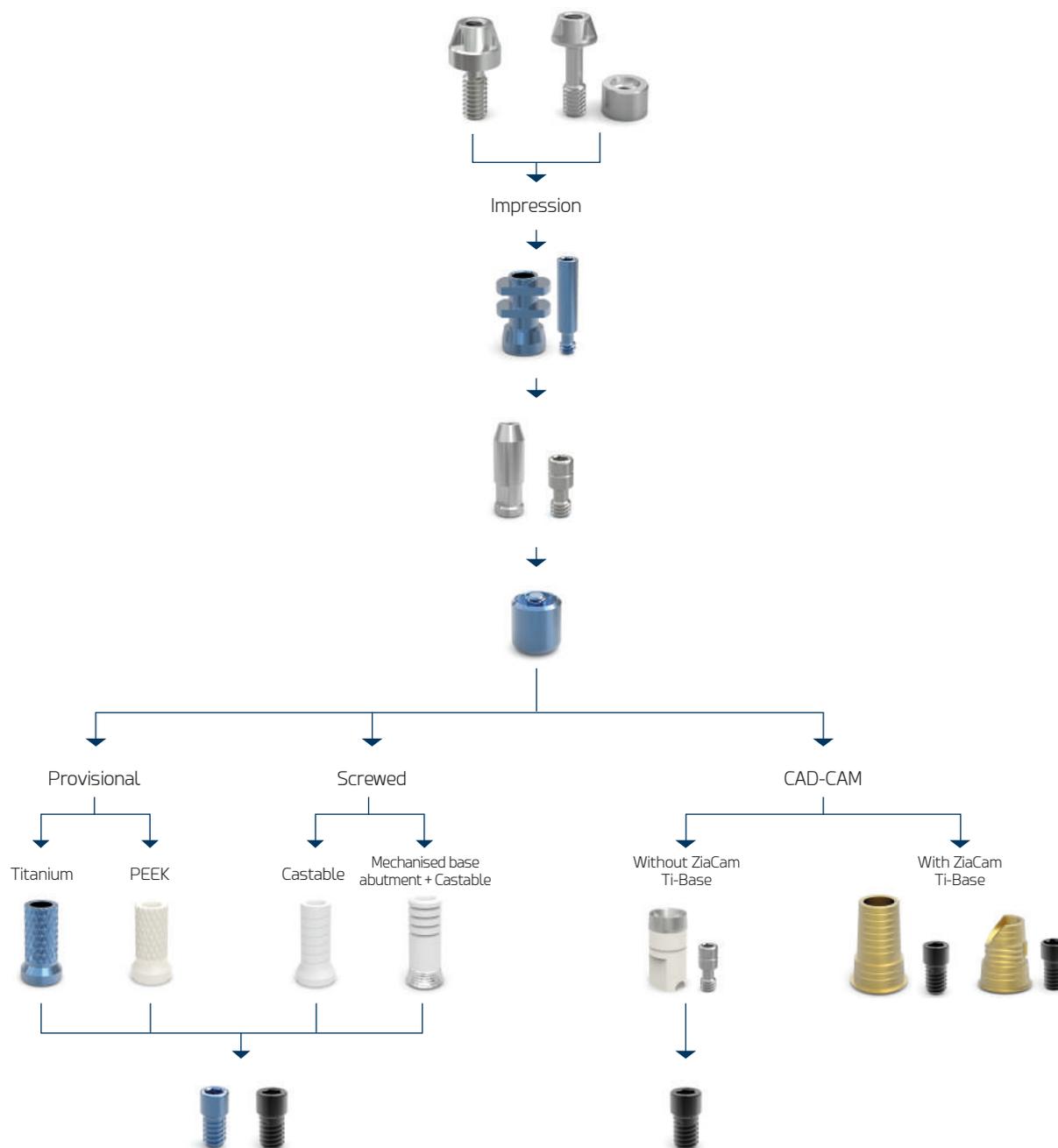
Restorations
using transepithelials



Abutments

Restorations using transepithelials

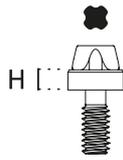
■ Basic | Demonstrative sequence of use



For more information on the use of abutments see the "Prosthetic procedure manual" available at www.ziacom.com/biblioteca



Basic abutment



Platf.	Height (H)	Reference
■	2.00	BASIC2002
■	3.00	BASIC2003
■	4.00	BASIC2004
■	5.00	BASIC2005
■	1.50	BASIC3401
■	2.00	BASIC3402
■	3.00	BASIC3403
■	4.00	BASIC3404
■	5.00	BASIC3405
■	2.00	BASIC5002
■	3.00	BASIC5003
■	4.00	BASIC5004
■	5.00	BASIC5005

Insertion key (Ref. MABA100/MABA110)



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

Basic abutment



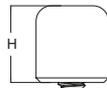
Platf.	Height (H)	Reference
■	3.00	BASIC2003N
■	4.00	BASIC2004N
■	3.00	BASIC3403N
■	4.00	BASIC3404N
■	3.00	BASIC5003N
■	4.00	BASIC5004N

Insertion key (Ref. MABA100/MABA110)



Basic abutment with applicator

Basic healing abutment

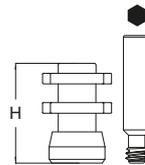


System	Height (H)	Reference
Basic	5.00	BAHAEX34

Anodising ■ RP



Basic impression abutment



System	Height (H)	Reference
Basic	8.00	BATC134

Anodising ■ RP



Non-rotatory

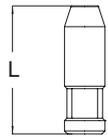
System	Height (H)	Reference
Basic	8.00	BATN134

Anodising ■ RP



All Basic impression abutments come with a screw.

Basic analogue



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	Length (L)	Reference
Basic	4.30	BDSEI3400

Anodising ■ RP








Kiran Basic clinical screw




System	Length (L)	Reference
Basic	4.30	BDSEI3410








Kiran special screw with surface treatment

Basic laboratory screw




System	Length (L)	Reference
Basic	5.50	BDSEI3401








NOT suitable for use as the final clinical screw.

Kiran Tx30 Basic clinical screw




System	Length (L)	Reference
Basic	4.10	BDSEI34TX

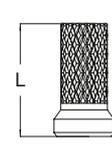







Kiran Tx30 special screw with surface treatment

Basic provisional abutment

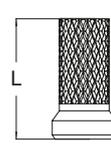
System	Length (L)	Reference
Basic	8.50	BARUT10

Anodising ■ RP





Basic provisional abutment

System	Length (L)	Reference
Basic	8.50	BARUP34





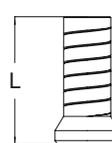
Non-rotatory

System	Length (L)	Reference
Basic	8.50	BANUP34





Basic UCLA abutment

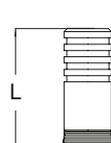



System	Length (L)	Reference
Basic	9.00	BARUEX34





Abutment base mec. Basic + Abutment calcinable

System	Length (L)	Reference
Basic	11.00	BBRU34





System	Length (L)	Reference
Basic	11.00	BBNU34







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

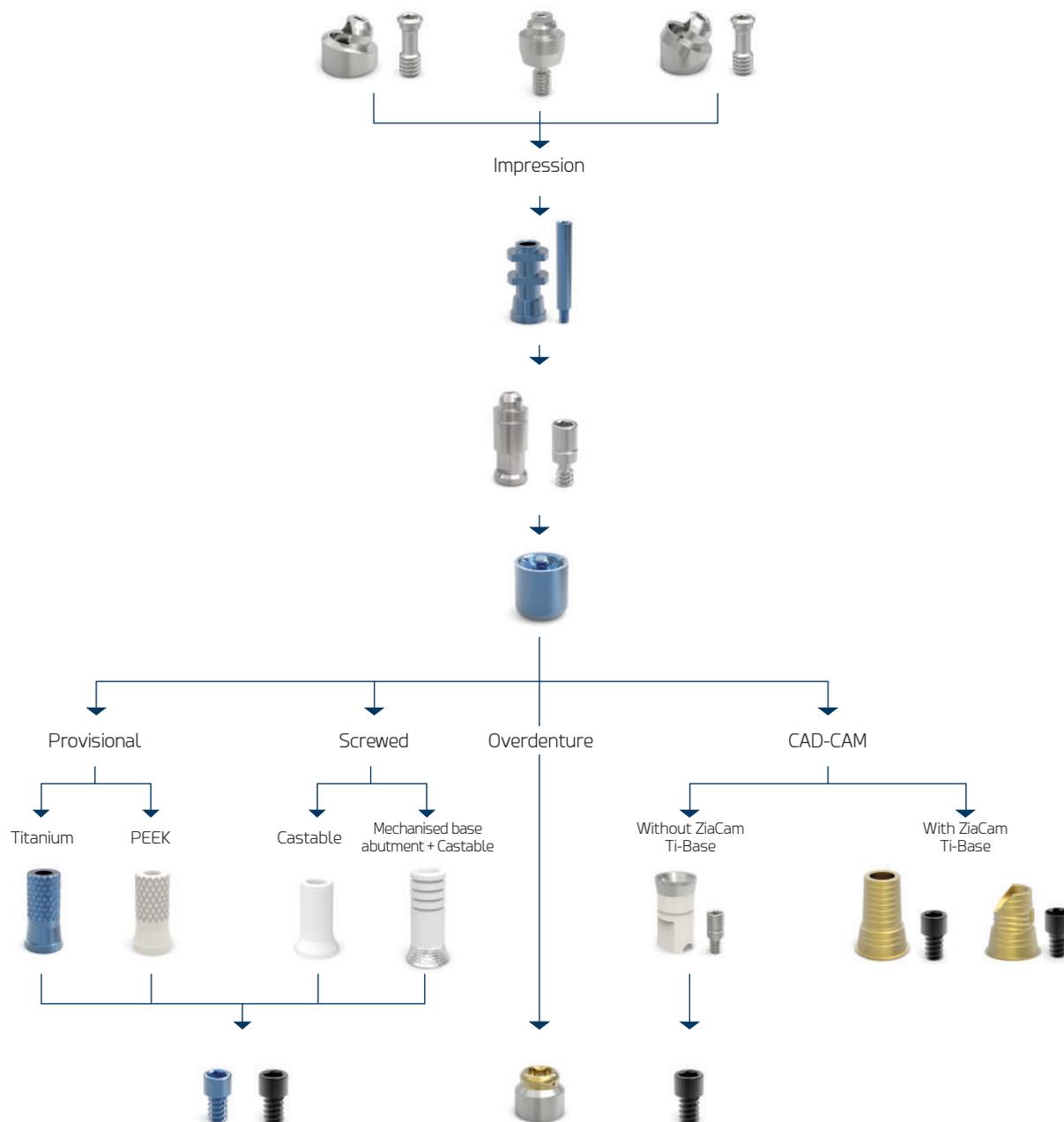


All ZiaCam Tx30 to Basic Ti-Bases come with a Kiran Tx30 special screw with surface treatment (Ref. BDSEI34TX).

Abutments

Restorations using transepithelials

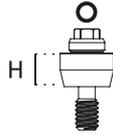
■ XDrive | Demonstrative sequence of use



For more information on the use of abutments see the "Prosthetic procedure manual" available at www.ziacom.com/biblioteca



XDrive straight abutment



Platf.	Height (H)	Reference
■	1.00	XST103410
■	2.00	XST103420
■	3.00	XST103430
■	4.00	XST103440
■	5.00	XST103450

Insertion key (Ref. MABA200/MABA210)



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

21° cone angle. 42° angle between abutments.



XDrive abutment with applicator

XDrive 17° angled abutment



Platf.	Height (H)	Reference
■	2.00	XA2103417
■	3.00	XA3103417
■	4.00	XA4103417
■	5.00	XA5103417



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

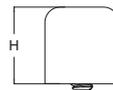
XDrive 30° angled abutment



Platf.	Height (H)	Reference
■	3.00	XA3103430
■	4.00	XA4103430
■	5.00	XA5103430



XDrive healing abutment

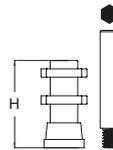


System	Height (H)	Reference
XDrive	5.00	XH103400

Anodised ■ RP



XDrive impression abutment



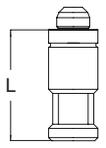
System	Height (H)	Reference
XDrive	10.50	XT103411

Anodised ■ RP



Includes screw.

XDrive analogue



System	Length (L)	Reference
XDrive	13.00	XIA103400



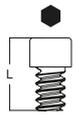
XDrive 3D analogue

System	Length (L)	Reference
XDrive	13.00	XIA103400D



Abutments

XDrive clinical screw

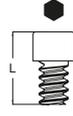


System	Length (L)	Reference
XDrive	3.50	XDS103410

Anodising ■ RP



Kiran XDrive clinical screw

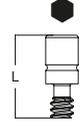


System	Length (L)	Reference
XDrive	3.50	XDS103411



Kiran special screw with surface treatment.

XDrive laboratory screw

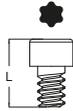


System	Length (L)	Reference
XDrive	5.10	XLB103410



NOT suitable for use as the final clinical screw.

Kiran Tx30 XDrive clinical screw



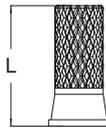
For ZiaCam Ti-Base or metal structures

System	Length (L)	Reference
XDrive	3.50	XDS3411TX



Kiran Tx30 special screw with surface treatment.

XDrive provisional abutment

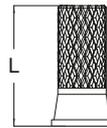


System	Length (L)	Reference
XDrive	9.50	XST3410

Anodising ■ RP



XDrive provisional abutment

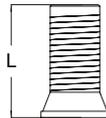


System	Length (L)	Reference
XDrive	9.50	XSP3410



XDrive

XDrive UCLA abutment



System	Length (L)	Reference
XDrive	8.00	XRU103400



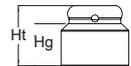
XDrive mechanised base abutment + Castable abutment



System	Length (L)	Reference
XDrive	11.00	XBRU34



Kirator XDrive abutment



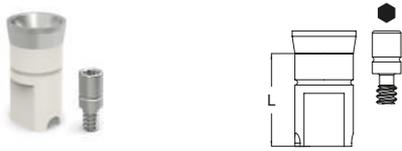
System	Height (Hg/Ht)	Reference
XDrive	3.00/4.30	XLO3400

Kirator abutment with gold surface treatment.



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/Attachment	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

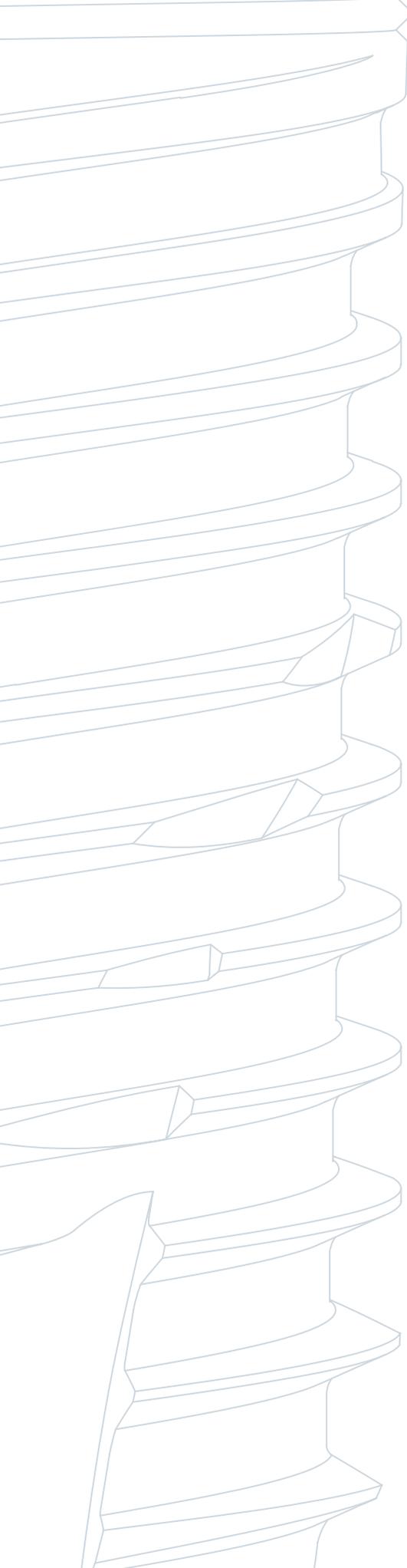
ATTENTION

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



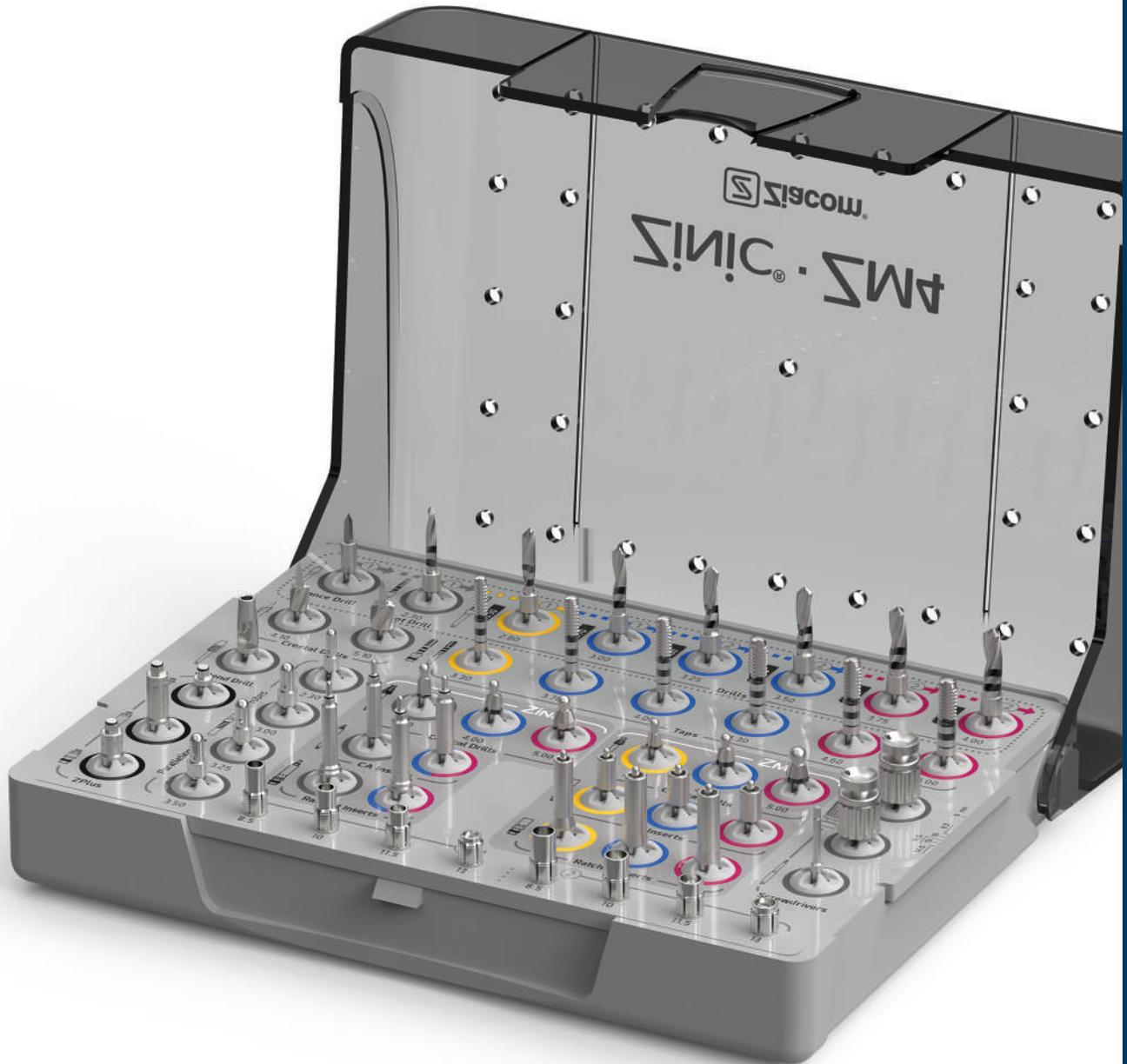
For immediate loading: DO NOT tighten manually, attach with the final torque.

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



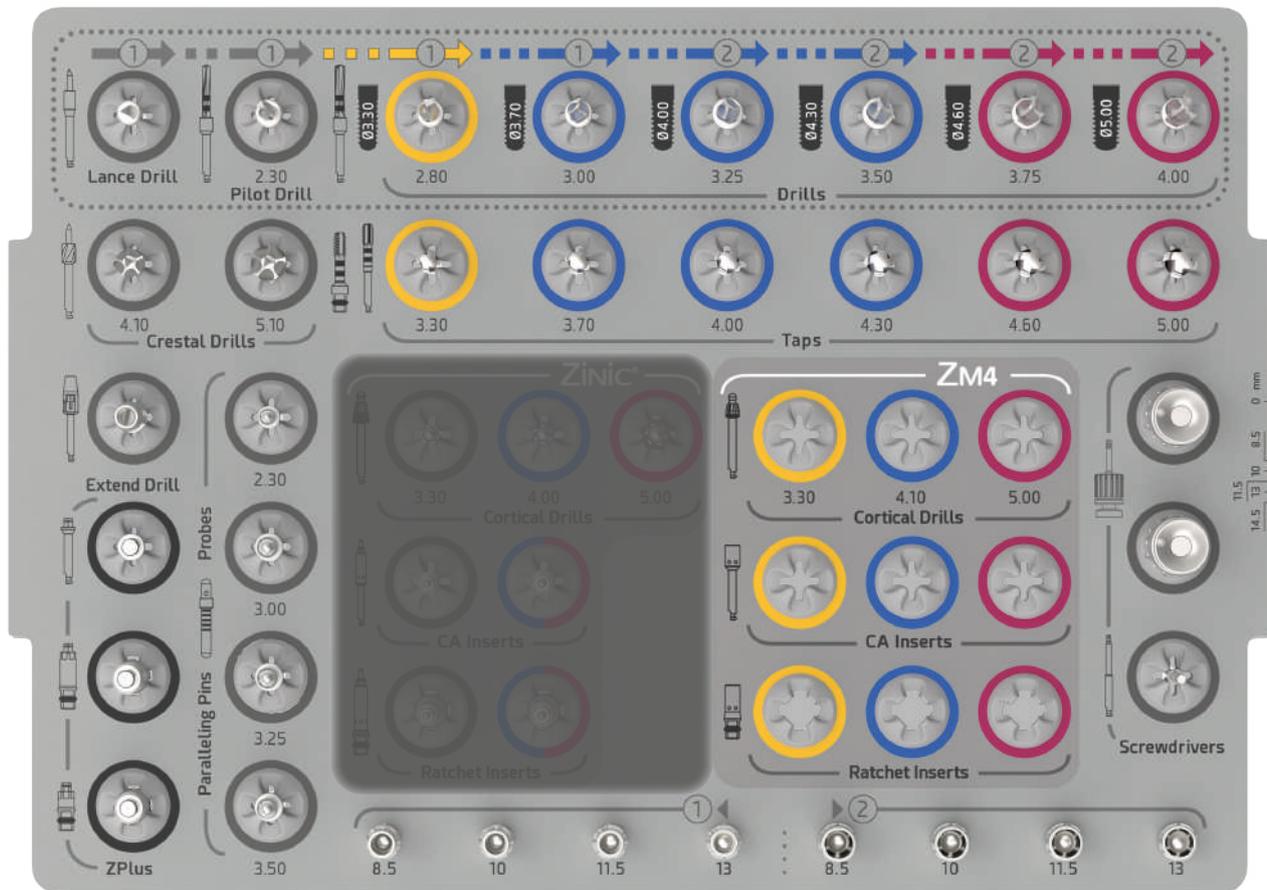
ZM4

Surgical
instruments



Surgical instruments

ZM4 surgical box



Available ZM4 boxes

Platf.	Contents	Reference
	Empty	BOX801
	Empty, CA	BOX801M
	Basic, manual. Surgical ratchet	BOX8104S
	Basic, manual. Torque wrench	BOX8104SK
	Basic, CA. Surgical ratchet	BOX8104SM
	Basic, CA. Torque wrench	BOX8104SMK
	Complete, manual. Surgical ratchet	BOX8104C
	Complete, manual. Torque wrench	BOX8104CK
	Complete, CA. Surgical ratchet	BOX8104CM
	Complete, CA. Torque wrench	BOX8104CMK



Material: Radel®.

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

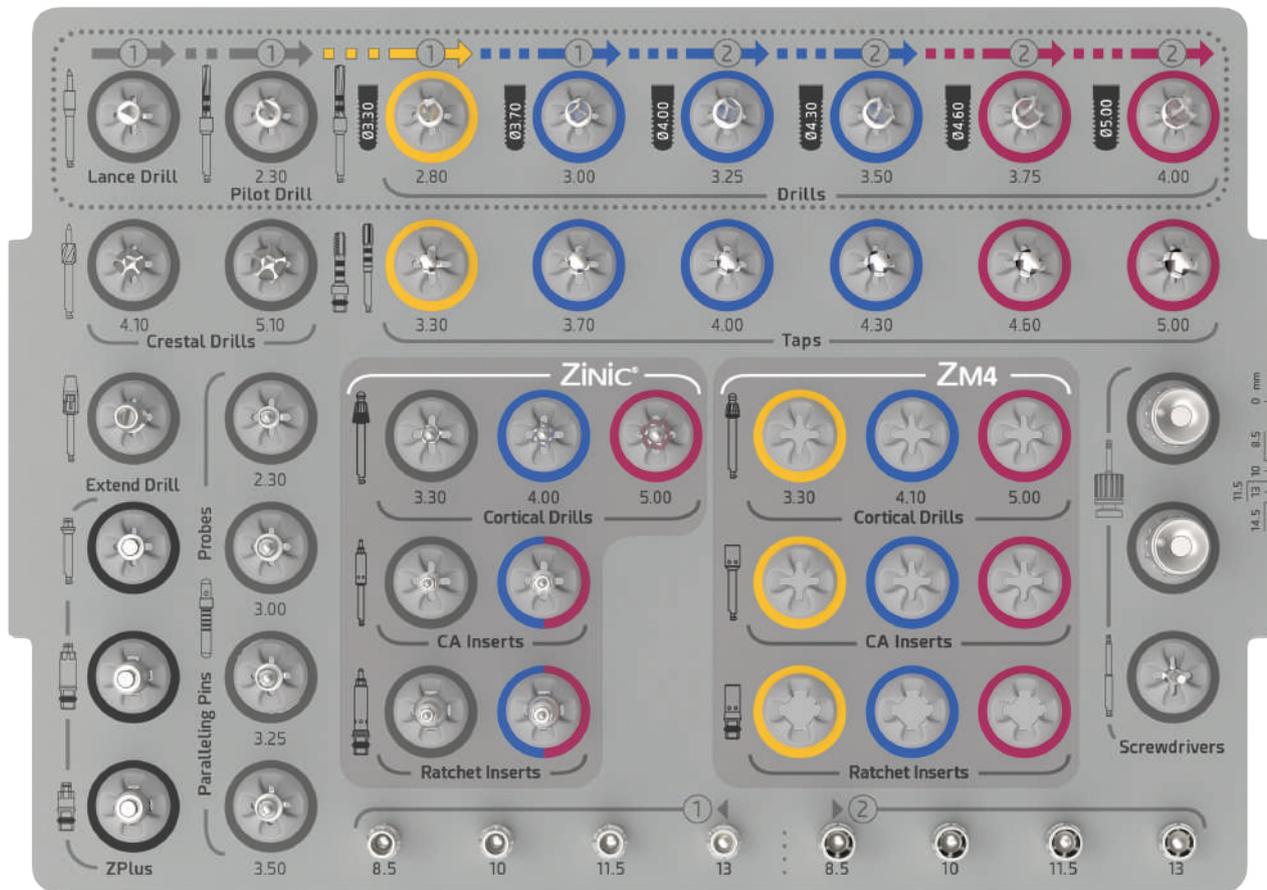


■ Contents of surgical boxes

REF	Description	BOX8T04S	BOX8T04SK	BOX8T04SM	BOX8T04SMK	BOX8T04C	BOX8T04CK	BOX8T04CM	BOX8T04CMK
SID00	Lance drill. Ø2.30mm. CA.	●	●	●	●	●	●	●	●
OSPD23	Pilot drill. Ø2.30mm. Millimeter. CA.	●	●	●	●	●	●	●	●
OSTD28	Surgical drill. ZM4/Zinic®. Ø2.80mm. Millimeter. CA.	●	●	●	●	●	●	●	●
OSTD30	Surgical drill. ZM4/Zinic®. Ø3.00mm. Millimeter. CA.	●	●	●	●	●	●	●	●
OTD32	Surgical drill. ZM4/Zinic®. Ø3.25mm. Millimeter. CA.	●	●	●	●	●	●	●	●
OSTD35	Surgical drill. ZM4/Zinic®. Ø3.50mm. Millimeter. CA.	●	●	●	●	●	●	●	●
OTD37	Surgical drill. ZM4/Zinic®. Ø3.75mm. Millimeter. CA.	●	●	●	●	●	●	●	●
OTD40	Surgical drill. ZM4/Zinic®. Ø4.00mm. Millimeter. CA.	●	●	●	●	●	●	●	●
MTD20	Cortical drill. ZM4. NP. CA.	●	●	●	●	●	●	●	●
STD41	Cortical drill. ZM4. RP. Millimeter. CA.	●	●	●	●	●	●	●	●
STD50	Cortical drill. ZM4. WP. Millimeter. CA.	●	●	●	●	●	●	●	●
CLD34	Crestal drill. Ø4.10mm. CA.					●	●	●	●
CLD50	Crestal drill. Ø5.10mm. CA.					●	●	●	●
NTPD185	Calibrated drill stop. ZM4/Zinic®. H8.50mm. Grade 5 ELI titanium					●	●	●	●
NTPD110	Calibrated drill stop. ZM4/Zinic®. H10mm. Grade 5 ELI titanium					●	●	●	●
NTPD115	Calibrated drill stop. ZM4/Zinic®. H11.50mm. Grade 5 ELI titanium					●	●	●	●
NTPD113	Calibrated drill stop. ZM4/Zinic®. H13mm. Grade 5 ELI titanium					●	●	●	●
NTPD285	Calibrated drill stop. ZM4/Zinic®. H8.50mm. Grade 5 ELI titanium					●	●	●	●
NTPD210	Calibrated drill stop. ZM4/Zinic®. H10mm. Grade 5 ELI titanium					●	●	●	●
NTPD215	Calibrated drill stop. ZM4/Zinic®. H11.50mm. Grade 5 ELI titanium					●	●	●	●
NTPD213	Calibrated drill stop. ZM4/Zinic®. H13mm. Grade 5 ELI titanium					●	●	●	●
TAPST33	Surgical tap. ZM4/Zinic®. NP. Ø3.30mm. Ratchet	●	●			●	●		
TAPST37	Surgical tap. ZM4/Zinic®. RP. Ø3.70mm. Ratchet	●	●			●	●		
TAPST40	Surgical tap. ZM4/Zinic®. RP. Ø4.00mm. Ratchet	●	●			●	●		
TAPST42	Surgical tap. ZM4/Zinic®. RP. Ø4.30mm. Ratchet	●	●			●	●		
TAPST46	Surgical tap. ZM4/Zinic®. WP. Ø4.60mm. Ratchet	●	●			●	●		
TAPST50	Surgical tap. ZM4/Zinic®. WP. Ø5.00mm. Ratchet	●	●			●	●		
MTAPST33	Surgical tap. ZM4/Zinic®. NP. Ø3.30mm. CA.			●	●			●	●
MTAPST37	Surgical tap. ZM4/Zinic®. RP. Ø3.70mm. CA.			●	●			●	●
MTAPST40	Surgical tap. ZM4/Zinic®. RP. Ø4.00mm. CA.			●	●			●	●
MTAPST42	Surgical tap. ZM4/Zinic®. RP. Ø4.30mm. CA.			●	●			●	●
MTAPST46	Surgical tap. ZM4/Zinic®. WP. Ø4.60mm. CA.			●	●			●	●
MTAPST50	Surgical tap. ZM4/Zinic®. WP. Ø5.00mm. CA.			●	●			●	●
MUR100	Probe/Paralleling pin. ZM4/Zinic®. Ø2.30mm. Millimeter. Grade 5 ELI titanium					●	●	●	●
MUR200	Probe/Paralleling pin. ZM4/Zinic®. Ø3.00mm. Millimeter. Grade 5 ELI titanium					●	●	●	●
MUR300	Probe/Paralleling pin. ZM4/Zinic®. Ø3.25mm. Millimeter. Grade 5 ELI titanium					●	●	●	●
MUR400	Probe/Paralleling pin. ZM4/Zinic®. Ø3.50mm. Millimeter. Grade 5 ELI titanium					●	●	●	●
TLMIN	ZPlus insertion key. Long. Ratchet	●	●	●	●	●	●	●	●
TSMIN	ZPlus insertion key. Short. Ratchet	●	●	●	●	●	●	●	●
O1MMIN	ZPlus insertion key. Short. CA.	●	●	●	●	●	●	●	●
MMEX20	ZM4 insertion key. ZM4/ZM1/ZM4 MT. NP. CA.	●	●	●	●	●	●	●	●
SMEX20	ZM4 insertion key. ZM4/ZM1/ZM4 MT. NP. Ratchet	●	●	●	●	●	●	●	●
MMEX34	ZM4 insertion key. ZM4/ZM8/ZM1/ZM4 MT. RP. CA.	●	●	●	●	●	●	●	●
SMEX34	ZM4 insertion key. ZM4/ZM8/ZM1/ZM4 MT. RP. Ratchet	●	●	●	●	●	●	●	●
MMEX50	ZM4 insertion key. ZM4/ZM1/ZM4 MT. WP. CA.	●	●	●	●	●	●	●	●
SMEX50	ZM4 insertion key. ZM4/ZM1/ZM4 MT. WP. Ratchet	●	●	●	●	●	●	●	●
DEXT10	Drill extender	●	●	●	●	●	●	●	●
O1MOHW	ZPlus block key. Manual	●	●	●	●	●	●	●	●
RATC50	Implant ratchet. Manual	●		●		●		●	
MESD	Screwinsertion key tip. Ø1.25mm. CA.	●	●	●	●	●	●	●	●
SMSD	Surgical screwdriver. Ø1.25mm. Short. Manual	●	●	●	●	●	●	●	●
LMSD	Surgical screwdriver. Ø1.25mm. Long. Manual	●	●	●	●	●	●	●	●
TORK50	Adjustable torque wrench. 10/20/30/40/50/60/70 Ncm		●		●		●		●

Surgical instruments

Zinic® · ZM4 surgical box



Available Zinic® · ZM4 boxes

Platf.	Contents	Reference
	Empty	BOX801
	Empty, CA	BOX801M
●	Basic, manual. Surgical ratchet	BOX811S
●	Basic, manual. Torque wrench	BOX811SK
●	Basic, CA. Surgical ratchet	BOX811SM
●	Basic, CA. Torque wrench	BOX811SMK
■	Complete, manual. Surgical ratchet	BOX811C
■	Complete, manual. Torque wrench	BOX811CK
	Complete, CA. Surgical ratchet	BOX811CM
	Complete, CA. Torque wrench	BOX811CMK



Material: Radel®.

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



■ Contents of surgical boxes

REF	Description	BOX8T1S	BOX8T1SK	BOX8T1SM	BOX8T1SMK	BOX8T1C	BOX8T1CK	BOX8T1CM	BOX8T1CMK
SID00	Lance drill. Ø2.30mm. CA.	●	●	●	●	●	●	●	●
OSPD23	Pilot drill. Ø2.30mm. Millimeter. CA.	●	●	●	●	●	●	●	●
OSTD28	Surgical drill. ZM4/Zinic®. Ø2.80mm. Millimeter. CA.	●	●	●	●	●	●	●	●
OSTD30	Surgical drill. ZM4/Zinic®. Ø3.00mm. Millimeter. CA.	●	●	●	●	●	●	●	●
OTD32	Surgical drill. ZM4/Zinic®. Ø3.25mm. Millimeter. CA.	●	●	●	●	●	●	●	●
OSTD35	Surgical drill. ZM4/Zinic®. Ø3.50mm. Millimeter. CA.	●	●	●	●	●	●	●	●
OTD37	Surgical drill. ZM4/Zinic®. Ø3.75mm. Millimeter. CA.	●	●	●	●	●	●	●	●
OTD40	Surgical drill. ZM4/Zinic®. Ø4.00mm. Millimeter. CA.	●	●	●	●	●	●	●	●
MTD20	Cortical drill. ZM4. NP. CA.	●	●	●	●	●	●	●	●
STD41	Cortical drill. ZM4. RP. Millimeter. CA.	●	●	●	●	●	●	●	●
STD50	Cortical drill. ZM4. WP. Millimeter. CA.	●	●	●	●	●	●	●	●
OTD01CZ	Cortical drill. Zinic®. NP. CA.	●	●	●	●	●	●	●	●
OTD02CZ	Cortical drill. Zinic®. RP. CA.	●	●	●	●	●	●	●	●
OTD03CZ	Cortical drill. Zinic®. WP. CA.	●	●	●	●	●	●	●	●
CLD34	Crestal drill. Ø4.10mm. CA.					●	●	●	●
CLD50	Crestal drill. Ø5.10mm. CA.					●	●	●	●
NTPD185	Calibrated drill stop. ZM4/Zinic®. H8.50mm. Grade 5 ELI titanium					●	●	●	●
NTPD110	Calibrated drill stop. ZM4/Zinic®. H10mm. Grade 5 ELI titanium					●	●	●	●
NTPD115	Calibrated drill stop. ZM4/Zinic®. H11.50mm. Grade 5 ELI titanium					●	●	●	●
NTPD113	Calibrated drill stop. ZM4/Zinic®. H13mm. Grade 5 ELI titanium					●	●	●	●
NTPD285	Calibrated drill stop. ZM4/Zinic®. H8.50mm. Grade 5 ELI titanium					●	●	●	●
NTPD210	Calibrated drill stop. ZM4/Zinic®. H10mm. Grade 5 ELI titanium					●	●	●	●
NTPD215	Calibrated drill stop. ZM4/Zinic®. H11.50mm. Grade 5 ELI titanium					●	●	●	●
NTPD213	Calibrated drill stop. ZM4/Zinic®. H13mm. Grade 5 ELI titanium					●	●	●	●
TAPST33	Surgical tap. ZM4/Zinic®. NP. Ø3.30mm. Ratchet	●	●			●	●		
TAPST37	Surgical tap. ZM4/Zinic®. RP. Ø3.70mm. Ratchet	●	●			●	●		
TAPST40	Surgical tap. ZM4/Zinic®. RP. Ø4.00mm. Ratchet	●	●			●	●		
TAPST42	Surgical tap. ZM4/Zinic®. RP. Ø4.30mm. Ratchet	●	●			●	●		
TAPST46	Surgical tap. ZM4/Zinic®. WP. Ø4.60mm. Ratchet	●	●			●	●		
TAPST50	Surgical tap. ZM4/Zinic®. WP. Ø5.00mm. Ratchet	●	●			●	●		
MTAPST33	Surgical tap. ZM4/Zinic®. NP. Ø3.30mm. CA.			●	●			●	●
MTAPST37	Surgical tap. ZM4/Zinic®. RP. Ø3.70mm. CA.			●	●			●	●
MTAPST40	Surgical tap. ZM4/Zinic®. RP. Ø4.00mm. CA.			●	●			●	●
MTAPST42	Surgical tap. ZM4/Zinic®. RP. Ø4.30mm. CA.			●	●			●	●
MTAPST46	Surgical tap. ZM4/Zinic®. WP. Ø4.60mm. CA.			●	●			●	●
MTAPST50	Surgical tap. ZM4/Zinic®. WP. Ø5.00mm. CA.			●	●			●	●
MUR100	Probe/Paralleling pin. ZM4/Zinic®. Ø2.30mm. Millimeter. Grade 5 ELI titanium					●	●	●	●
MUR200	Probe/Paralleling pin. ZM4/Zinic®. Ø3.00mm. Millimeter. Grade 5 ELI titanium					●	●	●	●
MUR300	Probe/Paralleling pin. ZM4/Zinic®. Ø3.25mm. Millimeter. Grade 5 ELI titanium					●	●	●	●
MUR400	Probe/Paralleling pin. ZM4/Zinic®. Ø3.50mm. Millimeter. Grade 5 ELI titanium					●	●	●	●
TLMIN	ZPlus insertion key. Long. Ratchet	●	●	●	●	●	●	●	●
TSMIN	ZPlus insertion key. Short. Ratchet	●	●	●	●	●	●	●	●
O1MMIN	ZPlus insertion key. Short. CA.	●	●	●	●	●	●	●	●
LMZ	Zinic® insertion key. Zinic®/Zinic® MT. NP. Long. Ratchet	●	●	●	●	●	●	●	●
SMZ1	Zinic® insertion key. Zinic®/Zinic® MT/Zinic® Shorty. RP/WP. Short. Ratchet	●	●	●	●	●	●	●	●
MMZ	Zinic® insertion key. Zinic®/Zinic® MT. NP. Short. CA.	●	●	●	●	●	●	●	●
MMZ1	Zinic® insertion key. Zinic® MT/Zinic® Shorty. RP/WP. Short. CA.	●	●	●	●	●	●	●	●
MMEX20	ZM4 insertion key. ZM4/ZM1/ZM4 MT. NP. CA.	●	●	●	●	●	●	●	●
SMEX20	ZM4 insertion key. ZM4/ZM1/ZM4 MT. NP. Ratchet	●	●	●	●	●	●	●	●
MMEX34	ZM4 insertion key. ZM4/ZM8/ZM1/ZM4 MT. RP. CA.	●	●	●	●	●	●	●	●
SMEX34	ZM4 insertion key. ZM4/ZM8/ZM1/ZM4 MT. RP. Ratchet	●	●	●	●	●	●	●	●
MMEX50	ZM4 insertion key. ZM4/ZM1/ZM4 MT. WP. CA.	●	●	●	●	●	●	●	●
SMEX50	ZM4 insertion key. ZM4/ZM1/ZM4 MT. WP. Ratchet	●	●	●	●	●	●	●	●
DEXT10	Drill extender	●	●	●	●	●	●	●	●
O1MOHW	ZPlus block key. Manual	●	●	●	●	●	●	●	●
RATC50	Implant ratchet. Manual	●	●	●	●	●	●	●	●
MESD	Screwdriver tip. Ø1.25mm. CA.	●	●	●	●	●	●	●	●
SMSD	Surgical screwdriver. Ø1.25mm. Short. Manual	●	●	●	●	●	●	●	●
LMSD	Surgical screwdriver. Ø1.25mm. Long. Manual	●	●	●	●	●	●	●	●
TORK50	Adjustable torque wrench. 10/20/30/40/50/60/70 Ncm		●		●		●		●

Surgical instruments

SURGICAL DRILLS

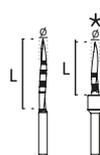
Lance drill



Platf.	Diameter (Ø)	Length (L)	Reference
■ ■ ■	1.80	5.00	SID01
■ ■ ■	2.30	6.50	SID00



Lance drill



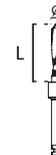
Platf.	Diameter (Ø)	Length (L)	Reference
■ ■ ■	2.00	18.90	MSID00
■ ■ ■	2.00	14.50	MSID00T*

Millimeter: 8.5/10/11.5/13/14.5

MSID00T*: suitable for calibrated drill stopper



Pilot drill



Platf.	Diameter (Ø)	Length (L)	Reference
■ ■ ■	2.30	15.00	OSPD23

Millimeter: 8.5/10/11.5/13/14.5



Surgical drill



Platf.	Diameter (Ø)	Length (L)	Reference
■	2.80	15.00	OSTD28
■	3.00	15.00	OSTD30
■	3.25	15.00	OTD32
■	3.50	15.00	OSTD35
■	3.75	15.00	OTD37
■	4.00	15.00	OTD40

Millimeter: 8.5/10/11.5/13/14.5



Cortical drill

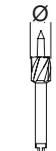


Platf.	Diameter (Ø)	Reference
■	3.30	OTD01CZ
■	3.80	OTD01ST
■	4.80	OTD02ST



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

Crestal drill



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



STOPS

Calibrated drill stop



Drill	Type	Implant length (L)	Reference
Pilot	1	8.50	NTPD185
		10.00	NTPD110
		11.50	NTPD115
		13.00	NTPD113
Pack*	2	8.50	NTPD285
		10.00	NTPD210
		11.50	NTPD215
		13.00	NTPD213
		--	KSTPD100

*Complete pack of 8 calibrated stops.



TAPS

Surgical tap. Ratchet/Manual



Platf.	Diameter (Ø)	Reference
■	3.30	TAPST33
■	3.70	TAPST37
■	4.00	TAPST40
■	4.30	TAPST42
■	4.60	TAPST46
■	5.00	TAPST50

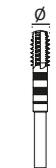
■ Square 4x4 mm

Millimeter: 8.5/10/11.5/13/14.5



See surgical drilling protocol for more information on using tap.

Surgical tap. CA



Platf.	Diameter (Ø)	Reference
■	3.30	MTAPST33
■	3.70	MTAPST37
■	4.00	MTAPST40
■	4.30	MTAPST42
■	4.60	MTAPST46
■	5.00	MTAPST50

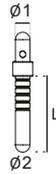
Millimeter: 8.5/10/11.5/13/14.5



See surgical drilling protocol for more information on using tap.

PROBES

Probe/Paralleling pin



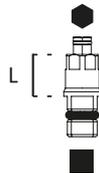
Platf.	Diameters (Ø1-Ø2)	Length (L)	Reference
	2.30-2.30	15.50	MUR100
	3.00-3.00	15.50	MUR200
	3.00-3.25	15.50	MUR300
	3.00-3.50	15.50	MUR400

Millimeter: 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



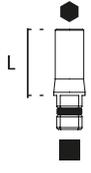
Platf.	Length (L)	Reference
ZPlus	15.90	01MMIN
	23.90	02MMIN *

Hexagonal 2.4 mm



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

ZM4 insertion key. Ratchet

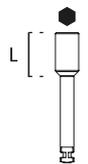


Platf.	Length (L)	Reference
	15.00	SMEX20
	15.00	SMEX34
	15.00	SMEX50

Hexagonal NP 2.30 mm
Hexagonal RP 2.70 mm
Hexagonal WP 3.00 mm
Square 4x4 mm



ZM4 insertion key. CA



Platf.	Length (L)	Reference
	7.50	MMEX20
	7.50	MMEX34
	7.50	MMEX50

Hexagonal NP 2.30 mm
Hexagonal RP 2.70 mm
Hexagonal WP 3.00 mm



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

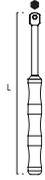


Platf.	Length (L)	Reference
Universal	2.80/Mini	XSMDS
	9.50/Short	SMDS
	14.50/Long	LMDS
	27.00/Extralong	XLMSD

● Hexagonal 1.25 mm



ZPlus block key



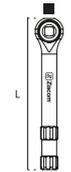
Platf.	Length (L)	Reference
ZPlus	90.00	01MOHW

● 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

ADAPTORS

Ratchet extender



Platf.	Length (L)	Reference
Universal	7.20	LAEX

■ Square 4x4 mm

Ratchet-to CA-adaptor



Platf.	Length (L)	Reference
Universal	7.20	MAEX

■ Square 4x4 mm

IMPLANT MOUNTS

Extra long mount



Platf.	Length (L)	Reference
	10.10/Extra Long	MOUNT20
	10.10/Extra Long	MOUNT34

● Hexagonal NP 2.30 mm
 ● Hexagonal RP 2.70 mm
 ■ Square 4x4 mm

LABORATORY TEST KIT

Laboratory test kit

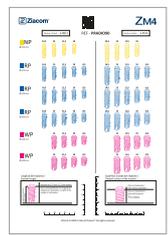


Platf.	Height (H)	Reference
	3.65	EXLAB20
	3.65	EXLAB34

This product does not supersede the need for careful planning of each clinical case.

RADIOGRAPHIC TEMPLATES

ZM4 radiographic templates

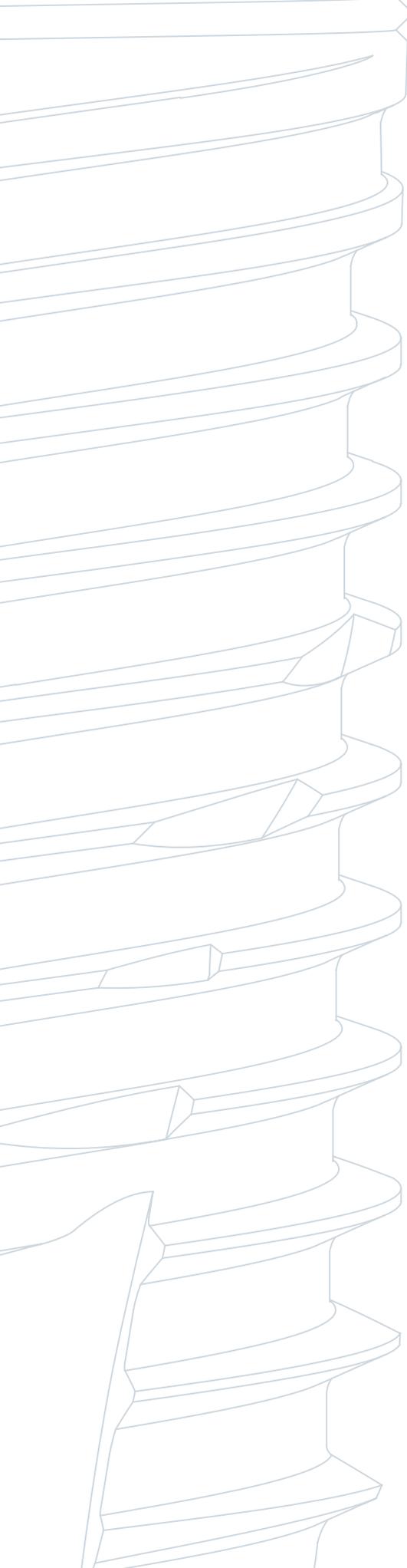


Platf.	Model	Reference
	ZM4	PRADIO90

Scales 1:1 and 1:1.25
 Material: transparent acetate. Non-sterilisable material.

See the literature available at www.ziacom.com/biblioteca





ZM4

Prosthetic instruments



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.



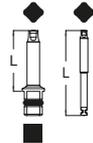
■ Contents of prosthetic boxes

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. Ø125 mm. Short. Ratchet	●	●
LMSD1	Screwdriver tip. Ø125 mm. Long. Ratchet	●	●
XLMSD1	Screwdriver tip. Ø125 mm. Extralong. Ratchet		●
MESD	Screwdriver tip. Ø125 mm. Long. CA.	●	●
MESD01	Screwdriver tip. Ø125 mm. Short. CA.	●	●
MESDIX	Tx30 screwdriver tip. Long. CA.	●	●
LMSDITX	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 ZM4 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

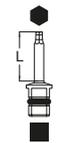


Platf.	Length (L)	Reference
Universal	15.50	MADW10

■ Square 4x4 mm



Screwdriver tip. Ratchet

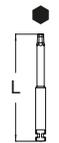


Platf.	Length (L)	Reference
Universal	9.50/Short 14.50/Long 27.00/Extralong	SMSD1 LMSD1 XLMSD1

■ Square 4x4 mm



Screwdriver tip. CA



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



Tx30 screwdriver tip. CA



System	Length (L)	Reference
Tx30	26.00/Short 32.00/Long	MESD01TX * 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 18.00/Long	SMSD1TX * LMSD1TX

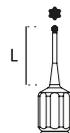
■ Square 4x4 mm



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 18.00/Long	SMSD1TX * 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
■ Blue	25.00	EDSG34 *
■ Pink	26.80	EDSG50 *

Anodised ■ RP ■ WP



* Product not included in the ZM4 system.

RATCHETS

Regulable torque wrench



Platf.	Length (L)	Reference
Universal	86.80	TORK50

■ Square 4x4 mm



Stainless Steel

Complementary instruments

CA to ratchet adapter



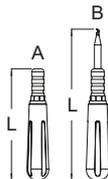
Platf.	Length (L)	Reference
Universal	12.00	MC10Z

■ Square 4x4 mm

Stainless Steel

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			

Plastic ■ Stainless Steel

NOT included in the prosthetic box.

Retainer inserter



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

Stainless Steel

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

Retentive joints instruments



Platf.	Measure	Reference
Universal	2x1	RREI0030

Pack of 10 units.

Simplified
surgical
protocol

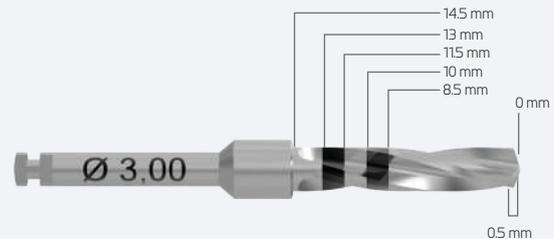


Simplified surgical protocol

Characteristics of the ZM4 drilling system

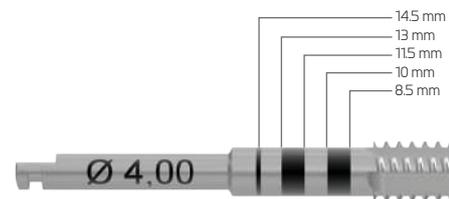
■ Ziacom® drill system

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.



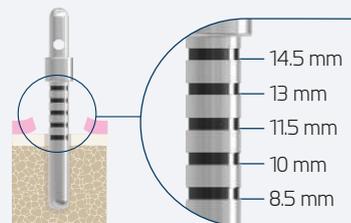
■ Ziacom® taps

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.



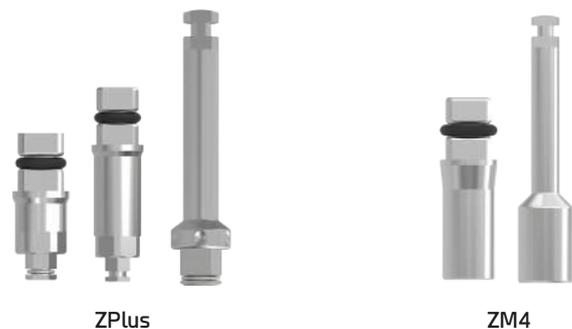
■ Probe

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

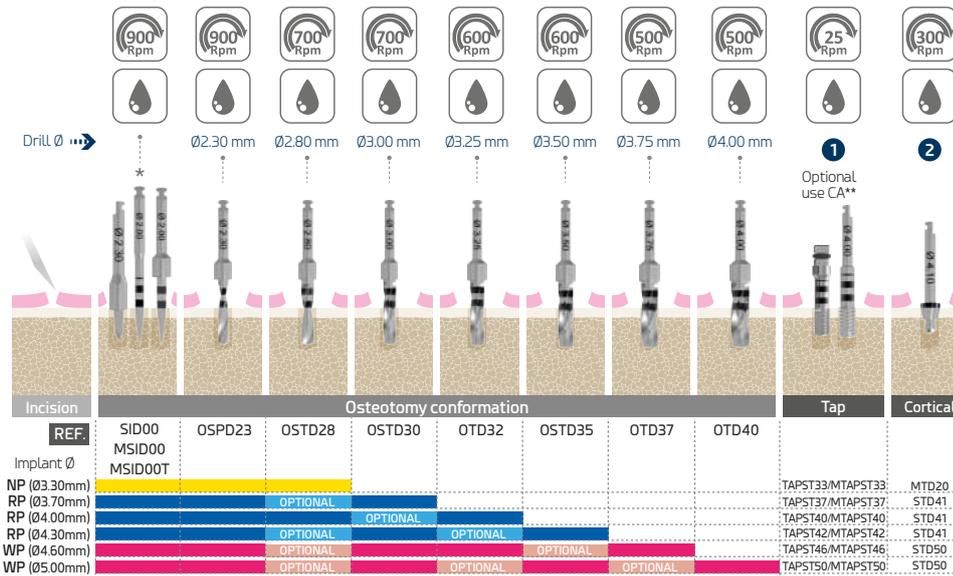
The insertion tool for contra-angle handpieces or ratchets has been designed for transporting implants from their No Mount vial to the surgical site ready for insertion.



Drilling protocol - ZPlus

Rotation Irrigation required Drill diameter Torque

The specified speeds are recommended



TAP AND CORTICAL DRILL

1 Tap usage
According to bone type

Manual or contra-angle (CA)	
Type I	Total
Type II	2/3
Type III - IV	Not required

2 Cortical drill usage
According to bone type

Type I	Total
Type II	Depends on cortical thickness
Type III - IV	Not required

REF.	SID00 MSID00 MSID00T	OSPD23	OSTD28	OSTD30	OTD32	OSTD35	OTD37	OTD40	Tap	Cortical
Implant Ø										
NP (Ø3.30mm)		OPTIONAL							TAPST33/MTAPST33	MTD20
RP (Ø3.70mm)			OPTIONAL						TAPST37/MTAPST37	STD41
RP (Ø4.00mm)				OPTIONAL					TAPST40/MTAPST40	STD41
RP (Ø4.30mm)					OPTIONAL				TAPST42/MTAPST42	STD41
WP (Ø4.60mm)						OPTIONAL			TAPST46/MTAPST46	STD50
WP (Ø5.00mm)							OPTIONAL		TAPST50/MTAPST50	STD50

* When drilling Type I/Type II bone, increase the speeds indicated above by 200 rpm. Use mm-graduated lance drill MSID00/MSID00T before using the pilot drill.

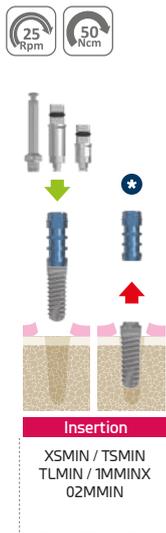
UNDERDRILLING: assess in Type III and IV bone.

IMPORTANT: control the drilling axis by applying intermittent pressure (tapping), always in the vertical plane, taking care not to exert excessive pressure on the bone.

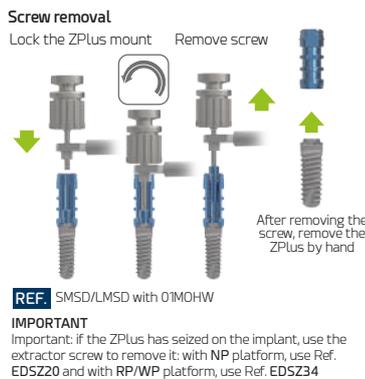
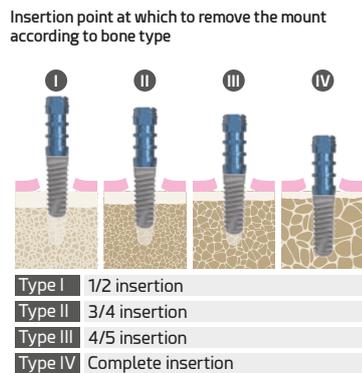
Simplified surgical protocol

Implant insertion - ZPlus

■ Insertion



■ Removing the mount *



■ Direct insertion

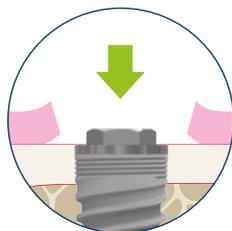


It has direct insertion keys to the implant ref.: SMEX20/SMEX34/SMEX50, for ratchet/manual and MMEX20/MMEX34/MMEX50 for CA, to adjust the implant end-position.

■ Crestal placement

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

RECOMMENDED crestal position



■ Bone types

Clasificación de Lekholm y Zarb (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.

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.

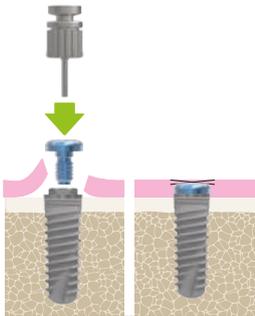


Damaged instruments must be disposed of according to local regulations.



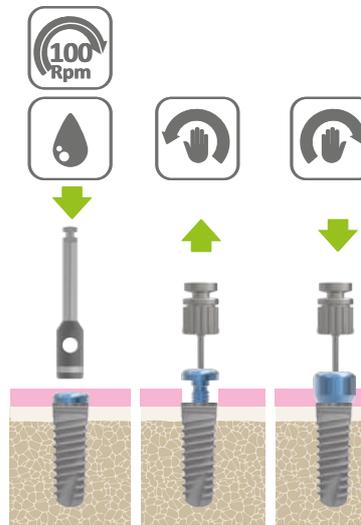
Implantologists should keep one of the identification labels supplied with the product in the patient's file so that it may be traced correctly.

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:



ZM4 implants

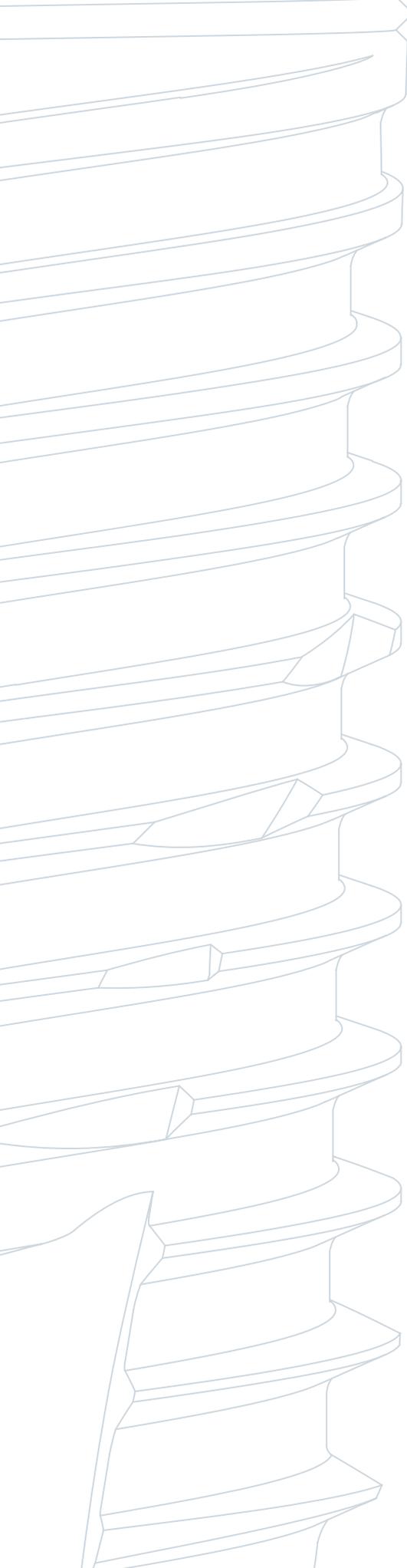
The Ziacom® surgical protocol establishes the crestal position of the implant platform.

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 which explained the procedures, protocols and instructions for use before using the ZM4 system by Ziacom®.





ZM4

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

** 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

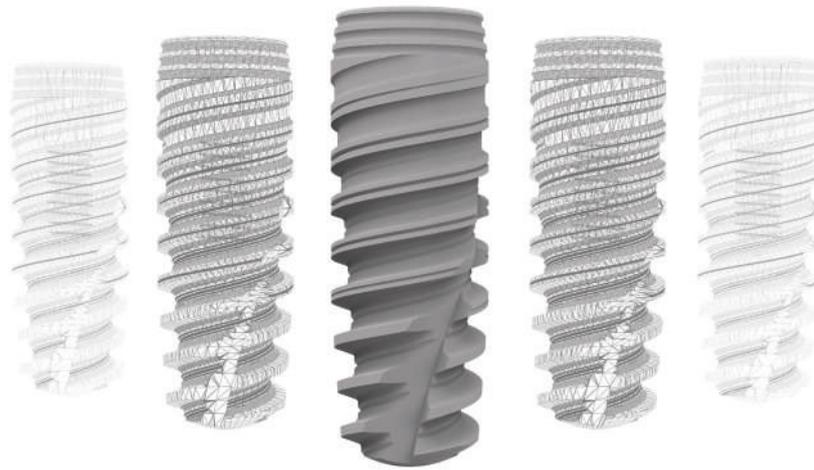
- Store the products in their original packaging and in a clean, dry location until they are used.
- After sterilisation, keep the products in the sealed sterilisation bags and in a clean, dry location.
- Never exceed the use by date indicated by the manufacturer of the sterilisation bags.
- Always follow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

General recommendations

- 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 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.

Check the availability of each product in your country.

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