



PRODUCT
CATALOGUE
ALPHA SYSTEM







ALPHA SYSTEM

COMPANY PROFILE

For over 20 years we are committed to offering high quality smiles to dentists and patients.

We specialise in the design and manufacture of high quality and outstanding reliable devices for oral surgery.

We offer an array of customized services and professional training courses able to meet the needs of our professionals and the high expectations of their patients.

We value innovation and development integrating our knowledge and expertise with the most advanced technology.

We work with passion and discipline to ensure unmatched reliability and to improve the daily clinical practice.

*“In any corner of the world, regardless of the
language and culture of the place,
everyone understands a smile and respond
with another smile”*



QUALITY FIRST

Our quality policy is the engine of development for the continuous improvement of the Alpha system.

KNOWLEDGE AND EXPERTISE:

- Medical robotics;
- Biomedical engineering;
- Dentistry and orthodontics;
- Material&Process technologies;
- R&D and clinical studies;
- IT applied to dental industry.

The knowledge developed in the key sectors of the dental industry ensures absolute quality in every process of Alpha products: from development to design, from production to control, from sterilization to packaging, to guarantee the technological and biological success.

MATERIALS

- Lubricating polymers (PEEK);
- Titanium gr. 4 and 5, Gold, Steel;
- Zirconium, Cobalt chrome;
- POM-C and PMMA;
- Glass fiber.

All Alpha products (traditional implant, CAD/CAM systems, guided surgery) are manufactured starting from high quality and biocompatible materials, developed and tested to guarantee long-term effective clinical outcomes.

TECHNOLOGIES AND MACHINERY

- SLM, CAD/CAM, hybrid;
- BIO-ACTIVE surface treatment;
- Plasma treatment with Argon;
- 5-axis CNC machines;
- Quality Control with SEM;
- Optical scanner.

The initial concept of a dental implant or a prosthetic part is designed and realized through CAD/CAM advanced systems and then developed with state-of-the-art technologies and machinery.

QUALITY SYSTEM

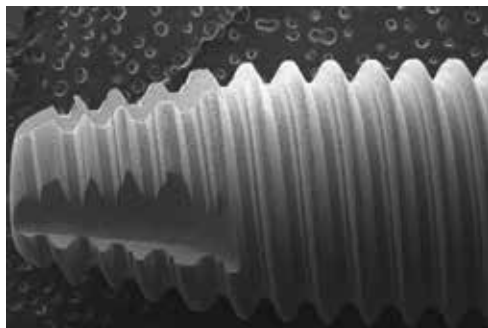
- UNI CEI EN ISO 9001: 2008
- UNI CEI EN ISO 13485: 2012

The whole Alpha process is constantly controlled, in order to ensure the maximum safety and traceability. All Alpha products meet international standards and comply with the stringent quality directives UNI EN ISO 9001 and UNI CEI EN ISO 13485.

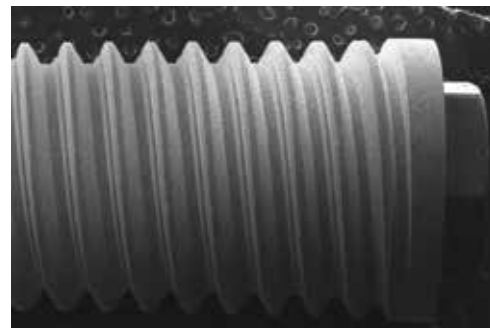
OSTEOCONDUCTIVE PROPERTIES OF THE MORPHOLOGY

Histological researches on implants showed best performance of the BIO-ACTIVE surfaces (treated with double acid-etching) compared to the “machined” surfaces, especially in cases of poor bone quality. The BIO-ACTIVE treatment consists of a double organic acid etching (the first creates the macro-texture, the second generates the micro-rough structure). Each treatment involves a cold plasma decontamination. The benefits introduced by the treated surfaces are more evident in difficult situations, where the improved biological response can provide for the reduced mechanical contribution.

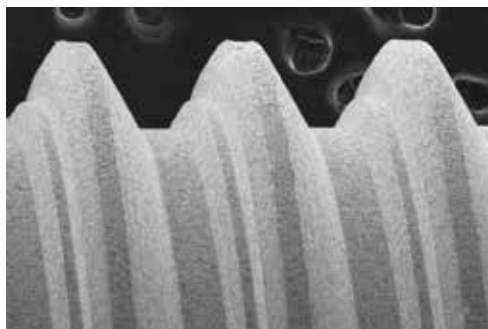
The surface morphology of the screws was evaluated by observation under the Scanning Electron Microscope. Figures 1-4, with low enlargement, demonstrate that the macroscopic aspects (thread and cutting-edge) of the screw are not affected by the treatment. Increasing the magnification, as in figures 5-6 (10.000x and 15.000x), we can observe the typical micro-roughness topography produced by the surface treatment with double acid etching.



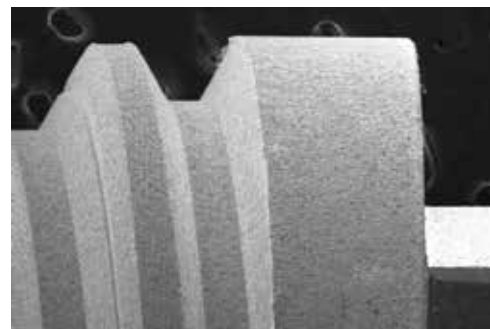
1 mm Mag= 50X WD= 13.5 mm EHT= 20.00kV Signal A= SE1 Fig. 1



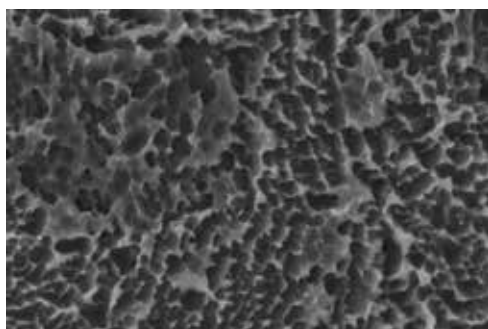
1 mm Mag= 50X WD= 13.5 mm EHT= 20.00kV Signal A= SE1 Fig. 2



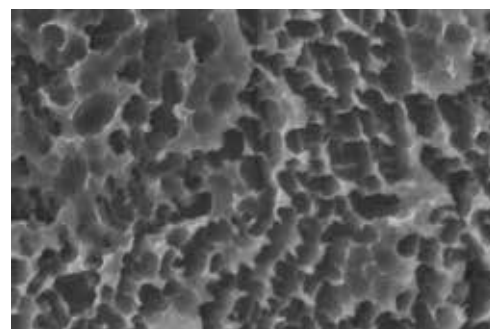
100 μm Mag= 200X WD= 13.5 mm EHT= 20.00kV Signal A= SE1 Fig. 3



100 μm Mag= 200X WD= 13.5 mm EHT= 20.00kV Signal A= SE1 Fig. 4



2 μm Mag= 10.00 K X WD= 13.5 mm EHT= 20.00kV Signal A= SE1 Fig. 5



1 μm Mag= 15.00 K X WD= 13.5 mm EHT= 20.00kV Signal A= SE1 Fig. 6

As known and reported in the scientific literature, this particular micro topography allows the surface to act as a “sponge” which strongly interacts with the clot and stimulates the regeneration of bones. From these images it is possible to highlight the absence of contaminants or foreign deposits.

ABSENCE OF CONTAMINATION FOR A CORRECT OSSEOINTEGRATION

The high level of cleanliness of the BIO-ACTIVE surface was confirmed by the analysis of the chemical composition of the surface by XPS. The depth analysed is about 5 nm and thus provides a direct indication of the chemical composition of the material layers that are in contact with the bone tissue. The result of the analysis is expressed in atomic %. The results are reported in the table below:

C	O	Ti	N	Si	P
30.8	47.1	19.3	0.9	1.2	0.7

In the surface analysis of Titanium is expected the presence of at least three elements: Titanium, Oxygen and Carbon. The latter element derives from the presence of carbonaceous molecules (CO_2 or hydrocarbon type compounds) which are inevitably present in the Earth's atmosphere. The surfaces of metals are combined with these carbonaceous species, which are "invisible" in the more traditional methods of analysis, but which can be detected by a specific analysis such as the XPS. Carbon can also derive from "heavier" contamination, such as contact with oils or fats during the production process. To discern between "natural" C and C from contamination it is necessary to take into account the quantitative aspect. Percentages of 30-40% are physiological and can be considered normal. Higher percentages suggest the presence of contamination. Theoretically, the maximum percentage of Ti observable in surface analysis is about 33%, since on the surface it is present the titanium oxide TiO_2 . The inevitable presence of C, previously described, further lowers this theoretical limit. On the basis of the experience concerning the surface analysis of implants and literature data, the maximum observable concentration of Ti by XPS is 14-19%. A percentage of Ti higher than 10% can be considered satisfactory.



ALPHA IMPLANT SYSTEM

Alpha line offers a wide range of implants: monophasic, with external hexagon and with internal hexagon. We provide a complete line of prosthetic components and surgical instruments which allow to offer several alternatives to the different clinical situations, in order to ensure the correct treatment of rehabilitation. All Alpha products are **marked CE** and comply with the European Directive concerning medical surgical devices.

ALPHA PACKAGING

Implants are placed in a titanium cylinder that preserves the sterility and allows to transfer the implant, from the packaging to the implant site, without manipulation or contamination. Sterility is further guaranteed by a double barrier packaging composed of a glass bottle and a blister. Everything is then packed in a box with the instructions for use and the labels with the specifications of the implant, which will be applied on the implant "passport" for the patient.



All products of the Alpha implant line are marked with a specific colour according to the corresponding diameter or type of Platform, as shown in the table on the right.

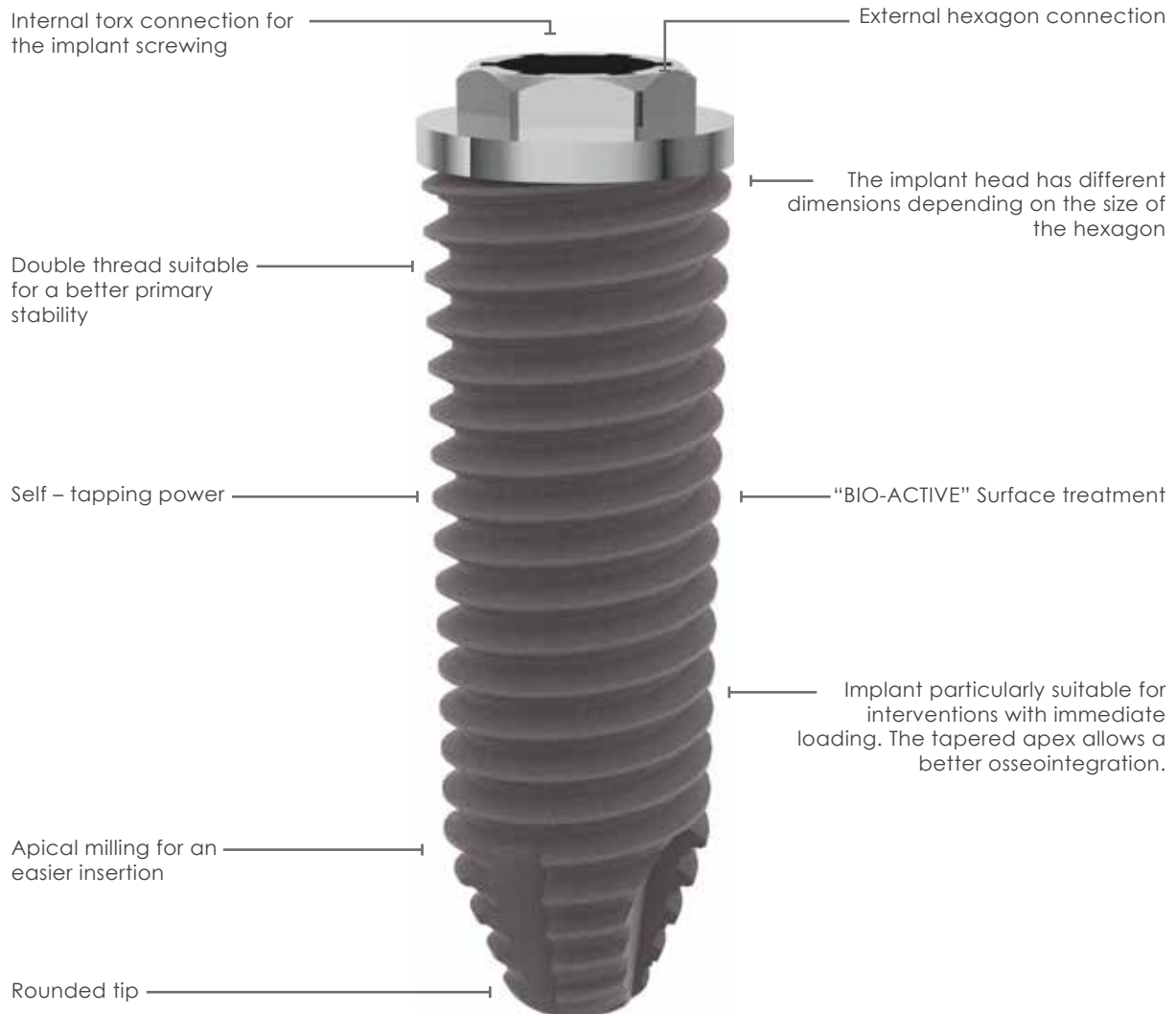
PLATFORM	COLOUR
3,5 mm	●
4,0 / 5,0 mm	●
5,0 mm	●
Monophasic	●



IMPLANTS

EXTRO - External hexagon

The implants of the EXTERNAL HEXAGON line are developed to ensure stability and reliability in all clinical procedures. They present, at the level of the implant neck, an external hexagon connection used for anchoring the abutment.



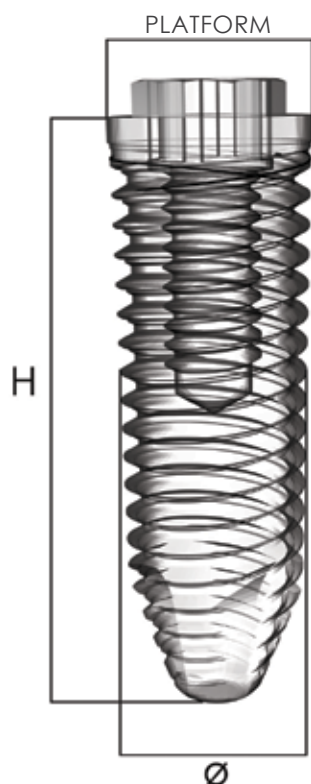
Platform switching ø 5,00

The implant with diameter 5.0 mm is available in the traditional version (blue platform) or with platform switching (yellow platform), for a prosthetic compatibility with diameter 3.75 and 4.00. The FLEX platform provides a better preservation of the crestal bone and increases soft tissue volumes.



EXTRO IMPLANT

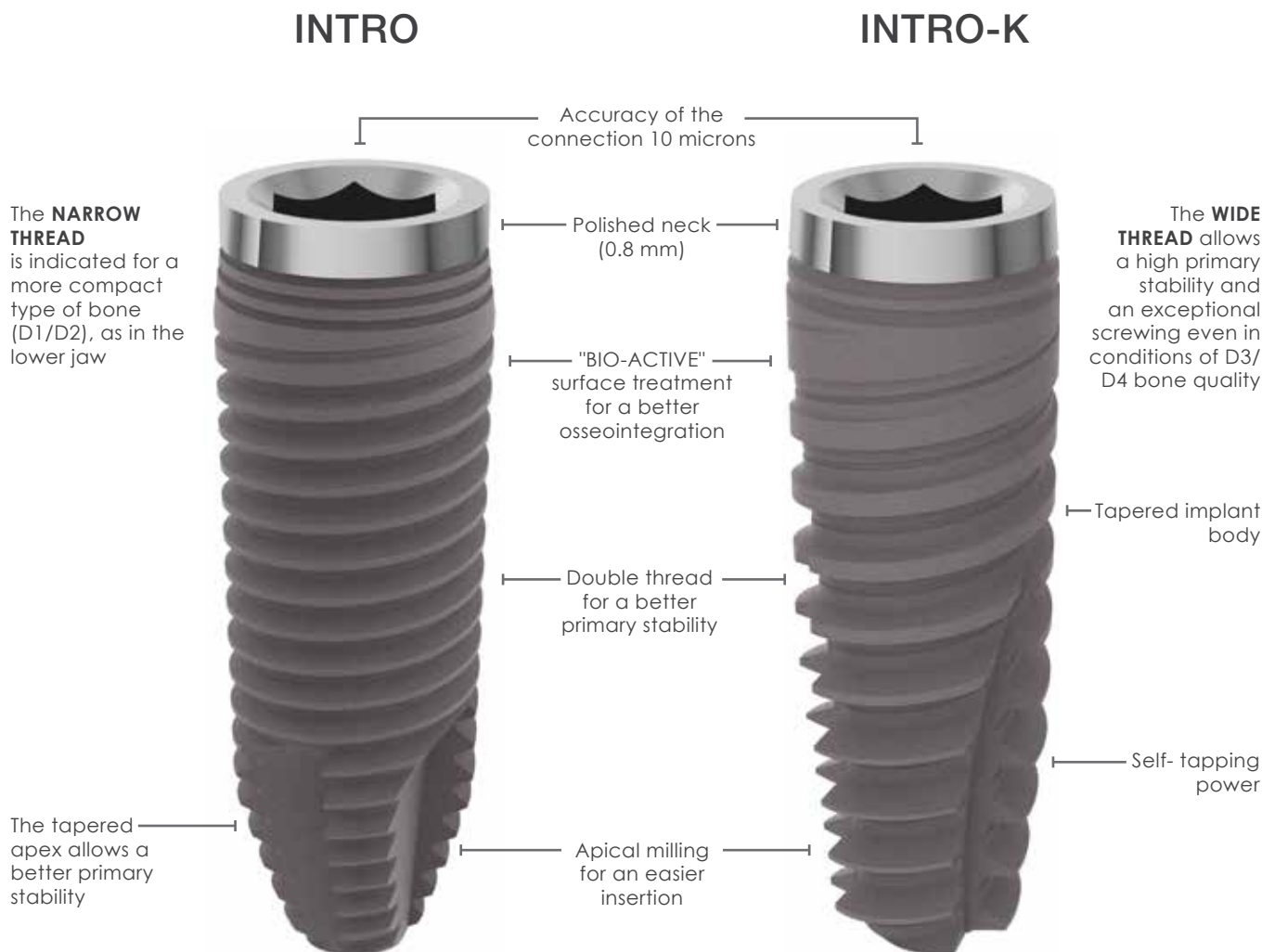
Implant made of Titanium Gr. 4 with an exceptional versatility: four diameters and multiple lengths are available to satisfy all needs of rehabilitation. Universal implant which can be used for the treatment of all indications where the volume of the available bone is appropriate for an implant. The cover screw made of titanium is included in every implant.



DIAMETER	HEX	PLATFORM	H (mm)	CODE
 3.30 mm	2.4	 3.5 mm	10	3310-SPE
			11.5	3311-SPE
			13	3313-SPE
			15	3315-SPE
 3.75 mm	2.7	 4.1 mm	7	3707-MPE
			8.5	3708-MPE
			10	3710-MPE
			11.5	3711-MPE
			13	3713-MPE
			15	3715-MPE
 4.0 mm	2.7	 4.1 mm	18	3718-MPE
			7	4007-MPE
			8.5	4008-MPE
			10	4010-MPE
			11.5	4011-MPE
			13	4013-MPE
			15	4015-MPE
			18	4018-MPE
 5.0 mm	2.7	 4.1 mm	20	4020-MPE
			6	5006-MPE
			7	5007-MPE
			8.5	5008-MPE
			10	5010-MPE
			11.5	5011-MPE
			13	5013-MPE

INTRO - Internal hexagon

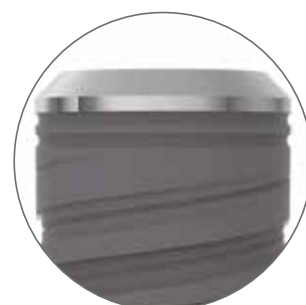
The implants of the INTERNAL HEXAGON line are developed to ensure stability and reliability in all clinical procedures. They have an internal hexagon connection followed by a threaded portion identical for all implants. All internal hex implants are **provided with the cover screw and with a pre-assembled mounter** which facilitates the manipulation and which can be used as a transfer and/or as an abutment.



Platform switching ø 5.00

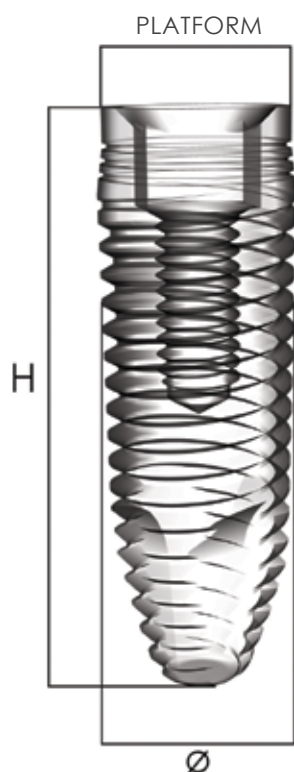
The implant with diameter 5.0 mm is available in the traditional version (blue platform) or with platform switching (yellow platform), for a prosthetic compatibility with diameter 3.75 and 4.25.

The FLEX platform provides a better preservation of the crestal bone and increases soft tissue volumes.



INTRO - NARROW THREAD

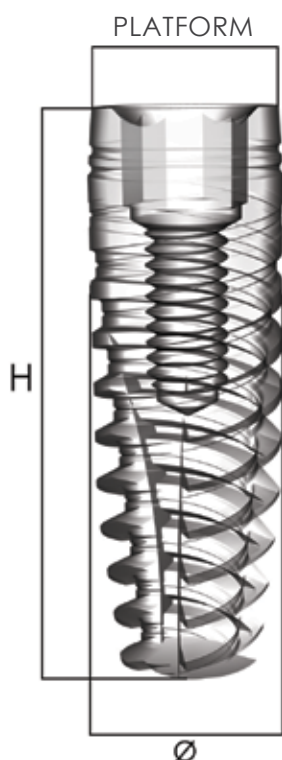
Implant made of Titanium Gr. 4 with an exceptional versatility: four diameters and multiple lengths are available to satisfy all needs of rehabilitation. Implant particularly suitable for the lower jaw. It can be used for the treatment of all indications where the volume of available bone is appropriate for an implant. The cover screw and the abutment made of titanium are included in every implant.



DIAMETER	HEX	PLATFORM	H (mm)	CODE
 3.30 mm	2.4	 3.5 mm	8.5	3308-SPI
			10	3310-SPI
			11.5	3311-SPI
			13	3313-SPI
			15	3315-SPI
 3.75 mm	2.4	 4.0 mm	8.5	3708-MPI
			10	3710-MPI
			11.5	3711-MPI
			13	3713-MPI
			15	3715-MPI
 4.25 mm	2.4	 4.0 mm	7	4207-MPI
			8.5	4208-MPI
			10	4210-MPI
			11.5	4211-MPI
			13	4213-MPI
 5.0 mm	2.4	 4.0 mm	15	4215-MPI
			7	5007-MPI
			8.5	5008-MPI
			10	5010-MPI
			11.5	5011-MPI
 5.0 mm	2.4	 5.0 mm	13	5013-MPI
			7	5007-LPI
			8.5	5008-LPI
			10	5010-LPI
			11.5	5011-LPI
			13	5013-LPI

INTRO-K WIDE THREAD

Implant made of Titanium Gr. 4 with an exceptional versatility: three diameters and multiple lengths are available to satisfy all needs of rehabilitation. This implant is particularly suitable in situation of low bone density. The wide thread allows to obtain a high primary stability, even in situations of D3 /D4 bone tissue type. The cover screw and the abutment made of titanium are included in every implant.



DIAMETER	HEX	PLATFORM	H (mm)	CODE
 3.75 mm	2.4	 4.0 mm	8.5	K3708-MPI
			10	K3710-MPI
			11.5	K3711-MPI
			13	K3713-MPI
			15	K3715-MPI
			18	K3718-MPI
 4.25 mm	2.4	 4.0 mm	7	K4207-MPI
			8.5	K4208-MPI
			10	K4210-MPI
			11.5	K4211-MPI
			13	K4213-MPI
			15	K4215-MPI
 5.0 mm	2.4	 4.0 mm	7	K5007-MPI
			8.5	K5008-MPI
			10	K5010-MPI
			11.5	K5011-MPI
			13	K5013-MPI

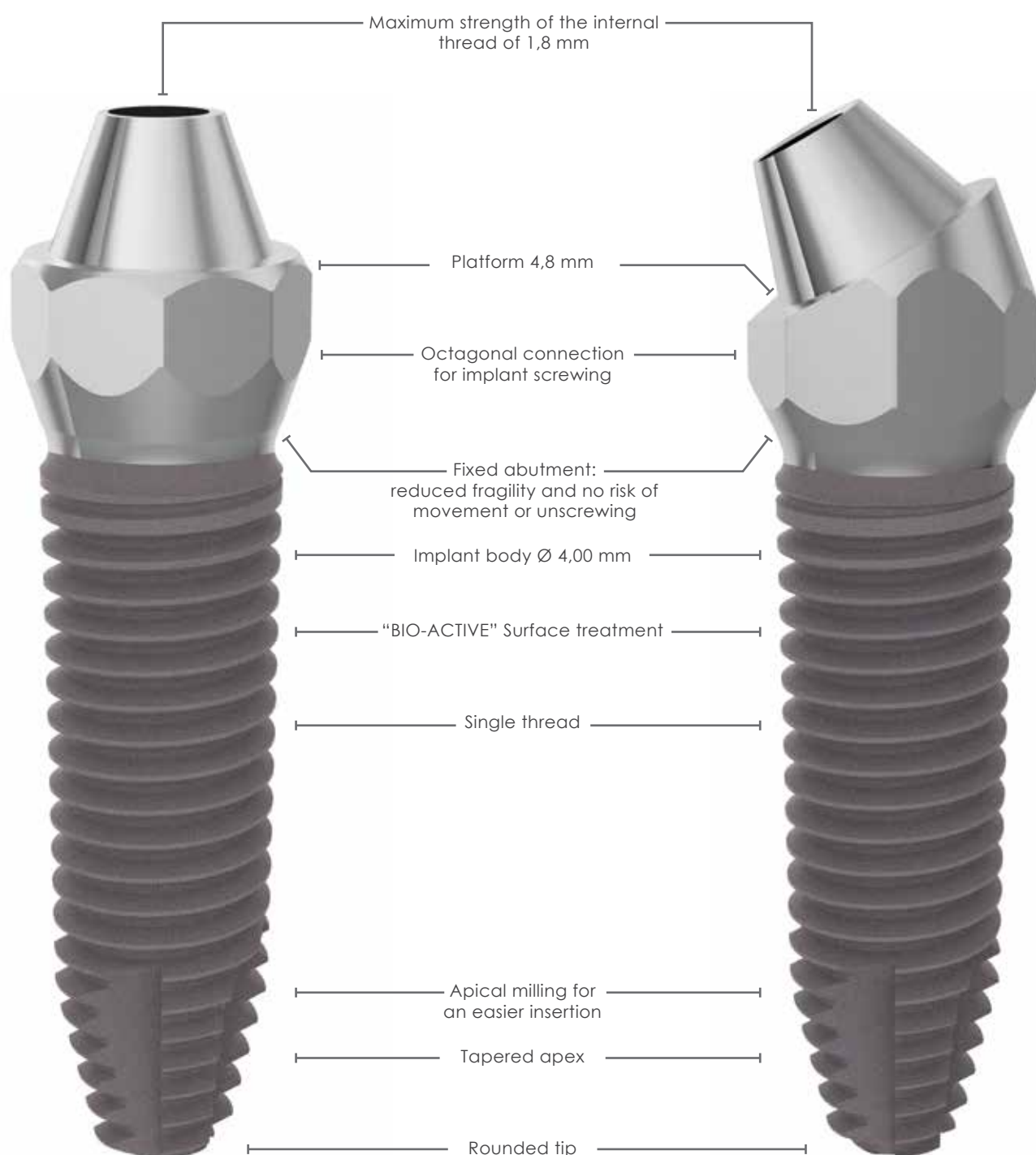
ONLY ONE

The Only One monophasic implant is designed to offer innovative solutions for treatments with immediate loading. One piece, very practical, that ensures a great stability. This implant is particularly suitable for screwed prostheses with immediate loading.

STRAIGHT ABUTMENT

THE FIRST ANGLED MONOPHASIC IMPLANT IN THE WORLD ABSOLUTE INNOVATION: FIXED ANGLED ABUTMENT

17° or 30°



ONLY ONE IMPLANT

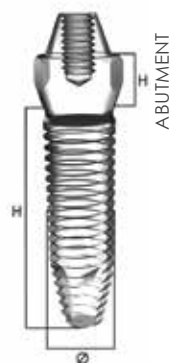
Implant made of Titanium Gr. 4 with fixed straight or angled abutment.

Exceptional versatility: multiple variations and lengths are available to satisfy all needs of rehabilitation.

This implant is particularly suitable for screwed prosthesis with immediate loading.

ONLY ONE WITH STRAIGHT ABUTMENT

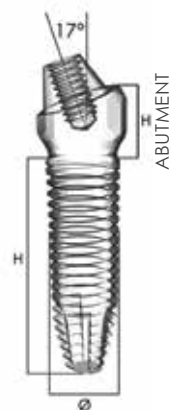
The implant with the fixed straight abutment is suitable for the anterior area.



DIAMETER	CONNECTION	H (mm) IMPLANT	H (mm) ABUTMENT	CODE
4.0		10	2	OO4010002
		11.5	2	OO4011002
		13	2	OO4013002
		15	2	OO4015002

ONLY ONE WITH ANGLED ABUTMENT 17°

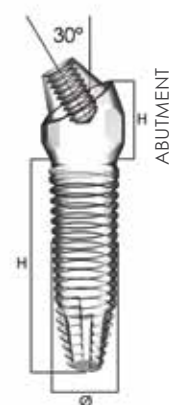
The implant with the fixed angled abutment 17° is suitable for the anterior area.



DIAMETER	CONNECTION	H (mm) IMPLANT	ANGULATION	H (mm) ABUTMENT	CODE
4.0		10	17°	2	OO4010172
		11.5	17°	2	OO4011172
		13	17°	2	OO4013172
		15	17°	2	OO4015172

ONLY ONE WITH ANGLED ABUTMENT 30°

The implant with the fixed angled abutment 30° is suitable for the posterior area.



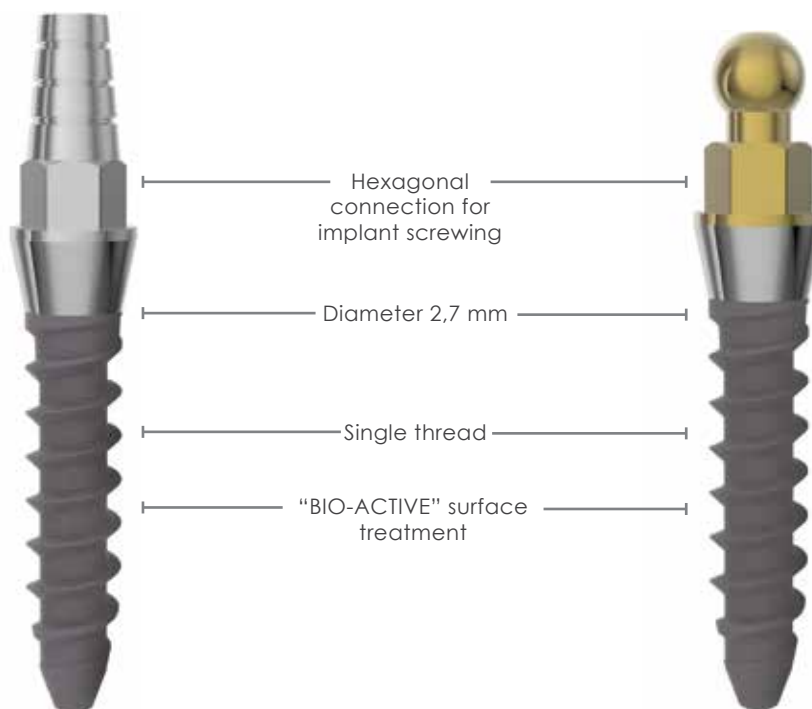
DIAMETER	CONNECTION	H (mm) IMPLANT	ANGULATION	H (mm) ABUTMENT	CODE
4.0		11.5	30°	4	OO4011304
		13	30°	4	OO4013304
		15	30°	4	OO4015304
		18	30°	4	OO4018304

MIKRO IMPLANT

Mikro is a monophasic implant with fixed or ball abutment. The mini implants MIKRO constitute a long-term support structure for the stabilization of upper and lower dentures. They are also indicated for the replacement of a single tooth, for a crown or a bridge. The reduced diameter ensures a more rapid healing and an immediate stabilization in those cases where it is not possible to use larger diameters. MIKRO implants are made of ultra-resistant titanium Gr. 5.

FIXED ABUTMENT

ideal for small spaces, for post-extraction cases and for cemented restorations.

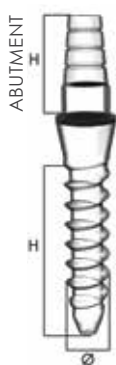


BALL ABUTMENT

ideal for overdenture

TiN coating on the ball

MIKRO WITH FIXED ABUTMENT



DIAMETER	CONNECTION	H (mm) IMPLANT	H (mm) ABUTMENT	HEX	CODE
2.7		8.5	7	2.5	2708-MF
		10	7	2.5	2710-MF
		11.5	7	2.5	2711-MF
		13	7	2.5	2713-MF
		15	7	2.5	2715-MF

MIKRO WITH BALL ABUTMENT



DIAMETER	CONNECTION	H (mm) IMPLANT	BALL DIAMETER (mm)	HEX	CODE
2.7		8.5	2.5	2.5	2708-MS
		10	2.5	2.5	2710-MS
		11.5	2.5	2.5	2711-MS
		13	2.5	2.5	2713-MS
		15	2.5	2.5	2715-MS





CEMENTED TECHNIQUE

External Hexagon

HEALING ABUTMENT

Made of Titanium Gr. 5

Indicated for conditioning the soft tissue. It is used for the preparation of the implant site for the insertion of the superstructure. Wide range of heights.



PLATFORM	DIAMETER	H (mm)	CODE
■ 3.5 mm	4.3 mm	3	VG30-SPE
		4	VG40-SPE
		5.5	VG55-SPE
■ 4.1 mm	4.8 mm	2	VG20-MPE
		3	VG30-MPE
		4	VG40-MPE
		5.5	VG55-MPE
		7	VG70-MPE
■ 5.1 mm	5.5 mm	2	VG20-LPE
		3	VG30-LPE
		4	VG40-LPE
		5.5	VG55-LPE

IMPLANT ANALOG

Made of Titanium Gr. 5

It reproduces the connection of the implant
Used for the preparation of models in laboratory.



PLATFORM	H (mm)	CODE
■ 3.5 mm	14	AN-SPE
■ 4.1 mm	14	AN-MPE
■ 5.1 mm	14	AN-LPE

IMPRESSION COPING PICK-UP TECHNIQUE

Made of Titanium Gr. 5

Cover screw (21 mm) included

For use with an individual open tray, for a more precise impression.



PLATFORM	H (mm)	CODE	SCREW CODE
■ 3.5 mm	13.5	TR-SPE	VTSP
■ 4.1 mm	13.5	TR-MPE	VTMP
■ 5.1 mm	13.5	TR-LPE	VTLP

TEMPORARY ABUTMENT

Made of Titanium Gr. 5
 Titanium cover screw included
 Available non-rotating (HEX) and rotating (NO HEX)
 Suitable for temporary prostheses with immediate loading.



HEX



NO HEX

PLATFORM	H (mm)	TYPE	CODE	SCREW CODE
■ 3.5 mm	15	HEX	MTE-SPE	VSSP
		NO HEX	MTNE-SPE	
■ 4.1 mm	15	HEX	MTE-MPE	VSMP
		NO HEX	MTNE-MPE	
■ 5.1 mm	15	HEX	MTE-LPE	VSLP
		NO HEX	MTNE-LPE	

STRAIGHT TITANIUM ABUTMENT

Made of Titanium Gr. 5
 Titanium cover screw included
 Used for cemented prostheses, single crowns or bridges. Millable according to the prosthetic needs.



PLATFORM	H (mm)	CODE	SCREW CODE
■ 3.5 mm	9	MD-SPE	VSSP
■ 4.1 mm	9	MD-MPE	VSMP
■ 5.1 mm	9	MD-LPE	VSLP

ANGLED ABUTMENT

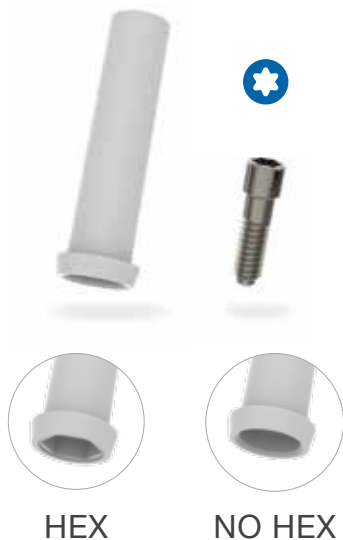
Made titanium Gr. 5
 Titanium cover screw included
 Suitable for the correction of disparallelism.



PLATFORM	H (mm)	ANGULATION	CODE	SCREW CODE
■ 3.5 mm	9	15°	MA15-SPE	VSSP
	9	25°	MA25-SPE	
■ 4.1 mm	9	15°	MA15-MPE	VSMP
	9	25°	MA25-MPE	

CASTABLE ABUTMENT

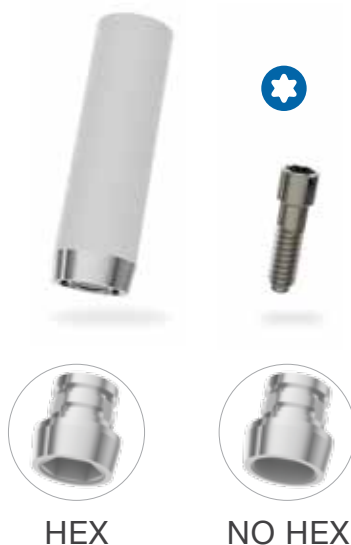
Made of POM-C
Titanium cover screw included
Available non-rotating (HEX) and rotating (NO HEX)
Millable and meltable according to the prosthetic needs.



PLATFORM	H (mm)	TYPE	CODE	SCREW CODE
■ 3.5 mm	13	HEX	MCE-SPE	VSSP
		NO HEX	MCNE-SPE	
■ 4.1 mm	13	HEX	MCE-MPE	VSMP
		NO HEX	MCNE-MPE	
■ 5.1 mm	13	HEX	MCE-LPE	VSLP
		NO HEX	MCNE-LPE	

GOLD UCLA ABUTMENT

Made of gold / platinum / iridium alloy
Titanium cover screw and castable abutment GoldC included Available non-rotating (HEX) and rotating (NO HEX)
Resistant to high-melting with precious alloys.



PLATFORM	H (mm)	TYPE	CODE	SCREW CODE
■ 3.5 mm	13	HEX	MGE-SPE	VSSP
■ 4.1 mm	13	HEX	MGE-MPE	VSMP
		NO HEX	MGNE-MPE	
■ 5.1 mm	13	HEX	MGE-LPE	VSLP

BALL ABUTMENT FOR OVERDENTURE

Made of Titanium Gr. 5
TiN covering on the ball
Suitable for overdentures.
For use with a steel container and a nylon cap.



PLATFORM	BALL DIAMETER Ø (mm)	H (mm)	CODE
■ 4.1 mm	2.5	2	MS02-MPE
		3	MS03-MPE
		4	MS04-MPE
		5	MS05-MPE



CEMENTED TECHNIQUE

Internal Hexagon

HEALING ABUTMENT

Made of Titanium Gr. 5

Indicated for conditioning the soft tissue. It is used for the preparation of the implant site for the insertion of the superstructure. Wide range of heights.



PLATFORM	DIAMETER	H (mm)	CODE
■ 3.5 mm	4.0	3	VG30-SPI
		4	VG40-SPI
		5	VG50-SPI
		7	VG70-SPI
■ 4.0 mm	4.5	3	VG30-MPI
		4	VG40-MPI
		5	VG50-MPI
		7	VG70-MPI
■ 5.0 mm	5.5	2	VG20-LPI
		4	VG40-LPI

IMPLANT ANALOG

Made of Titanium Gr. 5

It reproduces the connection of the implant.
Used for the preparation of models in laboratory.



H (mm)	PLATFORM	CODE
■ 3.5 mm	14	AN-SPI
■ 4.0 mm	14	AN-MPI
■ 5.0 mm	14	AN-LPI

IMPRESSION COPING PICK-UP TECHNIQUE

Made of Titanium Gr. 5

Cover screw (21 mm) included

For use with an individual open tray, for a more precise impression.



PLATFORM	H (mm)	CODE	SCREW CODE
■ 3.5 mm	13	TR-SPI	VTR-I
■ 4.0 mm	13	TR-MPI	VTR-I
■ 5.0 mm	13	TR-LPI	VTR-I

TEAR-OFF IMPRESSION TRANSFER

Included in every Internal Hex implant
Made of Titanium Gr. 5
Titanium cover screw included
Also usable with long screw (VTR-I)



PLATFORM	H (mm)	CODE	SCREW CODE
■ 3.5 mm	9	TRS-SPI	VS-I
■ 4.0 mm	9	TRS-MPI	VS-I
■ 5.0 mm	9	TRS-LPI	VS-I

THREE-SECTIONS IMPRESSION TRANSFER

Made of Titanium Gr. 5
Titanium cover screw and cylinder included
Removing the central cylinder it maintains the precision also between non-parallel implants.



PLATFORM	H (mm)	CODE	CYLINDER	SCREW CODE
■ 3.5 mm	12	TR3-SPI	CTR3-I	VTR3-I
■ 4.0 mm	12	TR3-MPI	CTR3-I	VTR3-I
■ 5.0 mm	12	TR3-LPI	CTR3-I	VTR3-I

TEMPORARY ABUTMENT

Made of Titanium Gr. 5
Titanium cover screw included
Available non-rotating (HEX) and rotating (NO HEX)
Suitable for temporary prostheses with immediate loading.



PLATFORM	H (mm)	TYPE	CODE	SCREW CODE
■ 3.5 mm	15	HEX	MTE-SPI	VS-I
		NO HEX	MTNE-SPI	
■ 4.0 mm	15	HEX	MTE-MPI	VS-I
		NO HEX	MTNE-MPI	
■ 5.0 mm	15	HEX	MTE-LPI	VS-I
		NO HEX	MTNE-LPI	

SHOULDERED STRAIGHT TITANIUM ABUTMENT

Made of Titanium Gr. 5
Titanium cover screw included
Used for cemented prostheses, single crowns or bridges. The shoulder determines the closure of the crown margin. Millable according to the prosthetic needs.



PLATFORM	H (mm)	CODE	SCREW CODE
■ 3.5 mm	10	MD-SPI	VS-I
■ 4.0 mm	10	MD-MPI	VS-I
■ 5.0 mm	10	MD-LPI	VS-I

STANDARD STRAIGHT TITANIUM ABUTMENT

Made of Titanium Gr. 5
Titanium cover screw included
Used for cemented prostheses, single crowns or bridges. Millable according to the prosthetic needs.



PLATFORM	H (mm)	CODE	SCREW CODE
■ 3.5 mm	10	MDS-SPI	VS-I
■ 4.0 mm	10	MDS-MPI	VS-I
■ 5.0 mm	10	MDS-LPI	VS-I

ANGLED ABUTMENT

Made titanium Gr. 5
Titanium cover screw included
Suitable for the correction of disparallelism.



PLATFORM	H (mm)	ANGULATION	CODE	SCREW CODE
■ 3.5 mm	10	15°	MA15-SPI	VS-I
		25°	MA25-SPI	
■ 4.0 mm	10	15°	MA15-MPI	VS-I
		25°	MA25-MPI	
■ 5.0 mm	10	15°	MA15-LPI	VS-I

PEEK ABUTMENT

Made of PEEK

Titanium cover screw included

The Perfect combination of flexibility and resistance. Peek is a highly biocompatible and self-lubricating polymer. This material presents a low conductivity and a high chemical resistance. Its natural colour allows highly aesthetic outcomes. Millable according to the prosthetic needs.



PLATFORM	H (mm)	CODE	SCREW CODE
3.5 mm	10	MTP-SPI	VS-I
4.0 mm	10	MTP-MPI	VS-I
5.0 mm	10	MTP-LPI	VS-I

CASTABLE ABUTMENT

Made of PMMA

Titanium cover screw included

Available non-rotating (HEX) and rotating (NO HEX)

Millable and meltable according to the prosthetic needs.



PLATFORM	H (mm)	TYPE	CODE	SCREW CODE
3.5 mm	13	HEX	MCE-SPI	VS-I
		NO HEX	MCNE-SPI	
4.0 mm	13	HEX	MCE-MPI	VS-I
		NO HEX	MCNE-MPI	
5.0 mm	13	HEX	MCE-LPI	VS-I
		NO HEX	MCNE-LPI	

GOLD UCLA ABUTMENT

Made of gold / platinum / iridium alloy

Titanium cover screw and castable abutment GoldC included Available non-rotating (HEX).

Resistant to high-melting with precious alloys.



PLATFORM	H (mm)	TYPE	CODE	SCREW CODE
3.5 mm	13	HEX	MGE-SPI	VS-I
4.0 mm	13	HEX	MGE-MPI	VS-I
5.0 mm	13	HEX	MGE-LPI	VS-I

BALL ABUTMENT FOR OVERDENTURE

Made of Titanium Gr. 5
TiN covering on the ball
Suitable for overdentures.
For use with a steel container and a nylon cap.



PLATFORM	BALL DIAMETER Ø (mm)	H (mm)	CODE
■ 3.5 mm	2.5	1	MS01-SPI
		2	MS02-SPI
		3	MS03-SPI
		4	MS04-SPI
■ 4.0 mm	2.5	1	MS01-MPI
		2	MS02-MPI
		3	MS03-MPI
		4	MS04-MPI
■ 5.0 mm	2.5	1	MS01-LPI
		2	MS02-LPI
		3	MS03-LPI



**PROSTHETIC COMPONENTS
MIKRO IMPLANT**

IMPLANT ANALOG

Made of Titanium Gr. 5
It reproduces the connection of the implant
Used for the preparation of models in laboratory

MF



MS



FIXED ABUTMENT

CONNECTION	H (mm)	CODE
2.5 mm	14	AN-MF

BALL ABUTMENT

CONNECTION	H (mm)	CODE
2.5 mm	14	AN-MS

IMPRESSION TRANSFER

Made of Titanium Gr. 5
Used to take the dental impression.



CONNECTION	H (mm)	CODE
2.5 mm	9	TR-M

STRAIGHT TITANIUM ABUTMENT

Made of Titanium Gr. 5
Used for cemented prostheses, single crowns or bridges.
Millable according to the prosthetic needs.



CONNECTION	H (mm)	CODE
2.5 mm	8	MD-M

CASTABLE ABUTMENT

Made of PMMA
Available non-rotating (HEX) and rotating (NO HEX)
Millable and meltable according to the prosthetic needs.



HEX



NO HEX

CONNECTION	H (mm)	TYPE	CODE
2.5 mm	8	HEX	MCE-M
		NO HEX	MCNE-M



SCREWED PROSTHESIS

IMMEDIATE LOADING

This type of technique is particularly suitable for the resolution of full and partial edentulism by using multiple screwed prostheses. This method facilitates the insertion of the prosthesis in case of implants with different angulations. The screwed technique allows, with the insertion of only four dental implants, to place in the same day the fixed prosthesis with immediately loading.

The abutments are supplied with supports for an easy insertion. The clinical solution for the use of these abutments is the “All-on-4”, developed to maximize the available bone portion. Taking advantage from the inclination of the posterior implants, it is possible to provide a safe and optimal prosthetic support for a bridge, even with a minimum bone volume.



The reduction of operating times and inconvenience for the patient are just some of the advantages of the screwed technique. The insertion of angled implants increases the chances to obtain a better primary stability, which ensures a statistically high implant- prosthetic survival, as shown by data published in the literature.

Alpha line provides a complete range of prosthetic parts specific for the screwed technique. Alpha components simplify the prosthetic procedures and their maintenance and can be used on implants with external hex, internal hex or monophasic implants.

STRAIGHT MUA ABUTMENT

Made of Titanium Gr. 5
Titanium cover screw included
Plastic device (ALPORT) pre-assembled Indicated for the anterior region.



PLATFORM	H (mm)	CODE	SCREW CODE	COMPATIBLE WITH
4.1 mm ■	1	U-MD1-MPE	ALMAS10	EXTRO external hexagon
	2	U-MD2-MPE	ALMAS20	
	3	U-MD3-MPE	ALMAS30	

ANGLED MUA ABUTMENT 17°

Made of Titanium Gr. 5
Titanium cover screw included
Positioning device in steel (MAAST) pre-assembled Indicated for the anterior region.



PLATFORM	ANGULATION	H (mm)	CODE	SCREW CODE	COMPATIBLE WITH
■ 4.1 mm	17°	2	U-MA172-MPE	MAVIT	EXTRO external hexagon
		3	U-MA173-MPE		

ANGLED MUA ABUTMENT 30°

Made of Titanium Gr. 5
Titanium cover screw included
Positioning device in steel (MAAST) pre-assembled Indicated for the posterior region.



PLATFORM	ANGULATION	H (mm)	CODE	SCREW CODE	COMPATIBLE WITH
■ 4.1 mm	30°	4	U-MA304-MPE	MAVIT	EXTRO external hexagon
		5	U-MA305-MPE		

STRAIGHT MUA ABUTMENT

Made of Titanium Gr. 5
Titanium cover screw included
Plastic device (ALPORT) pre-assembled Indicated for the anterior region.



PLATFORM	H (mm)	CODE	SCREW CODE	COMPATIBLE WITH
■ 4.0 mm	1	U-MD1-MPI	ALMAS10-I	INTRO internal hexagon
	2	U-MD2-MPI	ALMAS20-I	
	3	U-MD3-MPI	ALMAS30-I	

ANGLED MUA ABUTMENT 17°

Made of Titanium Gr. 5
Titanium cover screw included
Positioning device in steel (MAAST) pre-assembled Indicated for the anterior region.



PLATFORM	ANGULATION	H (mm)	CODE	SCREW CODE	COMPATIBLE WITH
■ 4.0 mm	17°	2	U-MA172-MPI	MAVIT-I	INTRO internal hexagon
		3	U-MA173-MPI		

ANGLED MUA ABUTMENT 30°

Alpha of Titanium Gr. 5
Titanium cover screw included
Positioning device in steel (MAAST) pre-assembled Indicated for the posterior region.



PLATFORM	ANGULATION	H (mm)	CODE	SCREW CODE	COMPATIBLE WITH
■ 4.0 mm	30°	4	U-MA304-MPI	MAVIT-I	INTRO internal hexagon
		5	U-MA305-MPI		

HEALING CAP

Made of POM-C
Titanium cover screw included. Indicated for soft tissue conditioning.



PLATFORM	H (mm)	CODE	SCREW CODE	COMPATIBLE WITH
■ 4.1 mm	4	U-CC-MPE	ALTAPS	internal and external hex
	8	U-CL-MPE		
● 4.0 mm	4	U-CC-OO	VS-OO	Only one
	8	U-CL-OO		

IMPRESSION COPING

Made of Titanium Gr. 5
Titanium cover screw included.



PLATFORM	H (mm)	CODE	SCREW CODE	COMPATIBLE WITH
■ 4.1 mm	10	U-TR-MPE	ALICMAS	internal and external hex
● 4.0 mm	10	U-TR-OO	VTR-OO	Only one

LABORATORY ANALOG

Made of Titanium Gr. 5
It reproduces the connection of the MUA abutment.



PLATFORM	H (mm)	CODE	COMPATIBLE WITH
■ 4.1 mm	13	U-AN-MPE	internal and external hex
● 4.0 mm	13	U-AN-OO	Only one

RETENTIVE TEMPORARY ABUTMENT

Made of Titanium Gr. 5
Titanium cover screw included



PLATFORM	H (mm)	CODE	SCREW CODE	COMPATIBLE WITH
■ 4.1 mm	12	U-MT-MPE	ALTAPS	internal and external hex
● 4.0 mm	12	U-MT-OO	VS-OO	Only one

SMOOTH TEMPORARY ABUTMENT

Made of Titanium Gr. 5
Titanium cover screw included



PLATFORM	H (mm)	CODE	SCREW CODE	COMPATIBLE WITH
■ 4.1 mm	10	U-MTL-MPE	ALTAPS	internal and external hex
● 4.0 mm	10	U-MTL-OO	VS-OO	Only one

CASTABLE ABUTMENT

Made of POM-C
Titanium cover screw included
Millable and meltable according to the prosthetic needs.



PLATFORM	H (mm)	CODE	SCREW CODE	COMPATIBLE WITH
■ 4.1 mm	10	U-C-MPE	ALTAPS	internal and external hex
● 4.0 mm	10	U-C-OO	VS-OO	Only one



INSTRUMENTS

RATCHET SCREWDRIVER (EXTERNAL HEXAGON)

Made of steel
It is indicated to proceed with the implant screwing with the ratchet.



PLATFORM	TYPE	CODE
■ 3.5 mm	18 mm	CRC-SPE
	23 mm	CRM-SPE
■ 4.1 mm	18 mm	CRC-MPE
	23 mm	CRM-MPE
■ 5.1 mm	18 mm	CRC-LPE
	23 mm	CRM-LPE

CONTRA-ANGLE SCREWDRIVER (EXTERNAL HEXAGON)

Made of steel
It allows to pick up the implant directly from its packaging and to place it without manipulations.



PLATFORM	TYPE	CODE
■ 3.5 mm	23 mm	CAC-SPE
	28 mm	CAM-SPE
■ 4.1 mm	23 mm	CAC-MPE
	28 mm	CAM-MPE
■ 5.1 mm	23 mm	CAC-LPE
	28 mm	CAM-LPE

RATCHET SCREWDRIVER (INTERNAL HEXAGON)

Made of steel
It is indicated to proceed with the implant screwing with the ratchet.



PLATFORM	TYPE	CODE
■ 3.5 mm	18 mm	CRC-I
■ 4.0 mm		
■ 5.0 mm	23 mm	CRM-I

CONTRA-ANGLE SCREWDRIVER (INTERNAL HEXAGON)

Made of steel
It allows to pick up the implant directly from its packaging and to place it without manipulations.



PLATFORM	TYPE	CODE
■ 3.5 mm	23 mm	CAC-I
■ 4.0 mm		
■ 5.0 mm	28 mm	CAM-I

RATCHET SCREWDRIVER FOR ONLY ONE

Made of steel
It is indicated to proceed with the implant screwing with the ratchet.



PLATFORM	TYPE	CODE
●	19 mm	CRC-OO

CONTRA-ANGLE SCREWDRIVER FOR ONLY ONE

Made of steel
It allows to pick up the implant directly from its packaging and to place it without manipulations.



PLATFORM	TYPE	CODE
●	27 mm	CAC-OO

RATCHET SCREWDRIVER FOR MIKRO

Made of steel
It is indicated to proceed with the implant screwing with the ratchet.



PLATFORM	TYPE	CODE
2.5	19 mm	CRC-M

CONTRA-ANGLE SCREWDRIVER FOR MIKRO

Made of steel
It allows to pick up the implant directly from its packaging and to place it without manipulations.



PLATFORM	TYPE	CODE
2.5	25 mm	CAC-M

TORX SCREWDRIVER FOR RATCHET

Made of steel

Universal screwdriver for all prosthetic screws, ball abutments or healing abutments.



LENGTH	TYPE	CODE
25 mm	Torx	CRTXC
30 mm	Torx	CRTXM

TORX SCREWDRIVER FOR CONTRA-ANGLE

Made of steel

Universal screwdriver for all prosthetic screws, ball abutments or healing abutments.



LENGTH	TYPE	CODE
25 mm	Torx	CATXC
30 mm	Torx	CATXM

MANUAL TORX SCREWDRIVER

Made of steel

Universal screwdriver for all prosthetic screws, ball abutments or healing abutments.



LENGTH	TYPE	CODE
21 mm	Torx	DRTXC
25 mm	Torx	DRTXM

HEXAGONAL SCREWDRIVER FOR RATCHET

Made of steel
Universal screwdriver for all prosthetic screws, ball abutments or healing abutments.



LENGTH	TYPE	CODE
25 mm	Hex	CRTC-I
30 mm	Hex	CRTM-I

HEXAGONAL SCREWDRIVER FOR CONTRA-ANGLE

Made of steel
Universal screwdriver for all prosthetic screws, ball abutments or healing abutments.



LENGTH	TYPE	CODE
25 mm	Hex	CATC-I
30 mm	Hex	CATM-I

MANUAL HEXAGONAL SCREWDRIVER

Made of steel
Universal screwdriver for all prosthetic screws, ball abutments or healing abutments.



LENGTH	TYPE	CODE
21 mm	Hex	DRTC-I
25 mm	Hex	DRTM-I

CONTRA-ANGLE SCREWDRIVER FOR MUA STRAIGHT ABUTMENT

Made of steel
Indicated to screw Mua straight abutment with the hand-piece.



LENGTH	TYPE	CODE
23 mm	Hex	CAC-MD

RATCHET SCREWDRIVER FOR MUA STRAIGHT ABUTMENT

Made of steel
Indicated to screw Mua straight abutment with the ratchet



LENGTH	TYPE	CODE
19 mm	Torx	CRC-MD

DRILL EXTENSION

Made of steel



LENGTH

CODE

25 mm

PFR

RATCHET

Made of steel

To use in combination with the connectors "CR" with 3.5 mm hexagonal connection.



LENGTH

CODE

80 mm

CRCH

80 mm

CRCHT

CRCHT chiave a cricchetto dinamometrica

STRAIGHT KEY

Made of steel

For manual screwing, in combination with the connectors "CR" whit 3.5 mm hexagonal connection.



LENGTH

CODE

140 mm

CRCHD

DIGITAL KEY

For manual screwing, in combination with the connectors "CR" whit 3.5 mm hexagonal connection.



LENGTH

CODE

10 mm

CRCHM

PARALLELISM PIN

Made of titanium Gr. 4

Indicated to verify the parallelism of the site prepared during drilling.



DIAMETER	LENGTH	CODE
2.0 / 3.0	27 mm	PPL

TWEEZERS

Made of titanium Gr. 4



LENGTH	CODE
100 mm	PZT

SURGICAL PROBE

Made of titanium Gr. 4



LENGTH	CODE
85 mm	SCH
85 mm	SCHP

SCHP Ø 3,0 without sphere on the terminal





SURGICAL COMPONENTS

PRECISION DRILL

Made of stainless steel
Used as a pilot drill for the incision of the cortical bone during the initial phase of drilling.



DIAMETER	LENGTH	CODE
1.5	30	FRLI

DRILL

Made of stainless steel
DLC coating on the surface
Depth marks to facilitate the surgical procedure.



DIAMETER	H (mm)	CODE
2.0	32	FR20C
	37	FR20L
2.6	32	FR26C
	37	FR26L
3.0	32	FR30C
	37	FR30L
3.2	32	FR32C
	37	FR32L
3.4	32	FR34C
	37	FR34L
3.8	32	FR38C
	37	FR38L
4.2	32	FR42C
	37	FR42L

GUIDED DRILLS

Made of stainless steel
Predetermined length that ensures the drilling at the chosen depth.



DIAMETER	H (mm)	CODE
----------	--------	------

2,0	6	FR2006G
	8.5	FR2008G
	10	FR2010G
	11.5	FR2011G
	13	FR2013G
	15	FR2015G
	18	FR2018G

2,3	6	FR2306G
	8.5	FR2308G
	10	FR2310G
	11.5	FR2311G
	13	FR2313G
	15	FR2315G
	18	FR2318G

2,6	6	FR2606G
	8.5	FR2608G
	10	FR2610G
	11.5	FR2611G
	13	FR2613G
	15	FR2615G
	18	FR2618G

3,0	6	FR3006G
	8.5	FR3008G
	10	FR3010G
	11.5	FR3011G
	13	FR3013G
	15	FR3015G
	18	FR3018G

DIAMETER	H (mm)	CODE
----------	--------	------

3,2	6	FR3206G
	8.5	FR3208G
	10	FR3210G
	11.5	FR3211G
	13	FR3213G
	15	FR3215G
	18	FR3218G

3,4	6	FR3406G
	8.5	FR3408G
	10	FR3410G
	11.5	FR3411G
	13	FR3413G
	15	FR3415G
	18	FR3418G

3,8	6	FR3806G
	8.5	FR3808G
	10	FR3810G
	11.5	FR3811G
	13	FR3813G
	15	FR3815G
	18	FR3818G

4,2	6	FR4206G
	8.5	FR4208G
	10	FR4210G
	11.5	FR4211G
	13	FR4213G
	15	FR4215G
	18	FR4218G

TAP

Made of steel
Suitable for the preparation of the site in the presence of bone type 1 or 2. DLC coating.



DIAMETER	H (mm)	CODE
3.3	37	MAS-33
3.7	37	MAS-37
4.0	37	MAS-40
4.2	37	MAS-42
5.0	37	MAS-50

COUNTER SINK

Made of steel
Suitable to countersink the initial part of the hole and to adapt it to the shape of the implant neck. DLC coating.



DIAMETER	H (mm)	CODE
 3.5 mm	32	CS-SP
 4.0/4.1 mm	32	CS-MP
 5.0/5.1 mm	32	CS-LP

MUCOTOME

Made of steel
Designed to create a complete incision of the muco-gingival membrane.
DLC coating.

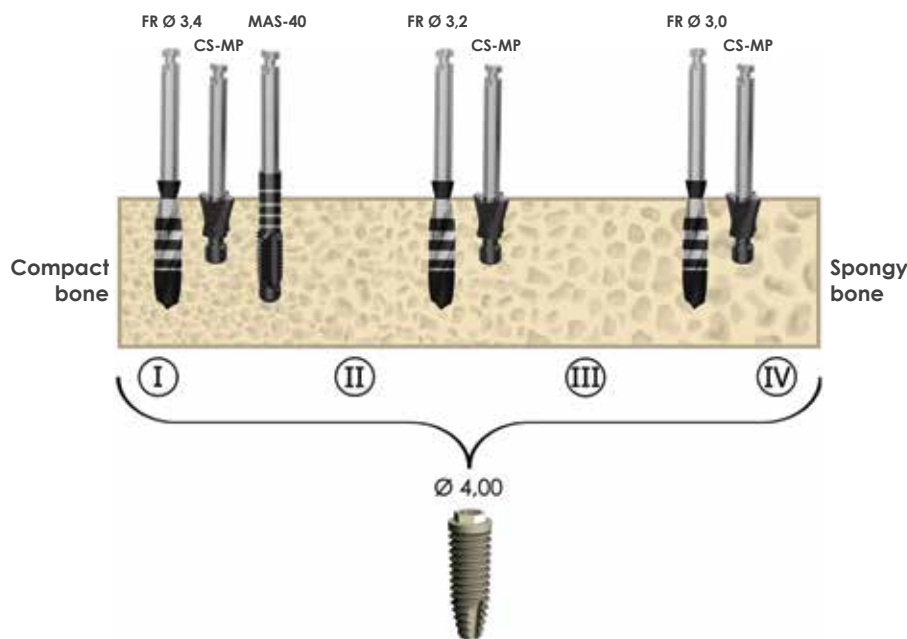


DIAMETER	H (mm)	CODE
4.5 mm	28	MUC-45
6.0 mm	28	MUC-60

ALPHA DRILLING PROTOCOL

The primary stability is a key factor for the implant success. The development of the surgical protocol takes into account the different degrees of hardness of the bone, in order to achieve high stability with all types of bone density. Typically, bone quality falls under the following categories:

- Type I : The entire jaw is constituted by a compact and homogeneous bone.
- Type II : A thick layer of compact bone surrounds a nucleus of trabecular bone.
- Type III : A thin layer of cortical bone surrounds a nucleus of dense trabecular bone which has an adequate resistance..
- Type IV : A very thin layer of cortical bone surrounds a nucleus of low-density trabecular bone.



- In case of bone with high-density (hard) the implant cavity is enlarged in order to allow an atraumatic threading.
- In case of bone with low-density (soft) it is suggested to prepare an under-dimensioned cavity, in order to increase the primary stability with the compression.

Surgical suggested procedure

The following drilling procedure represents the most common protocol for Alpha implants placement, both with external hexagonal connection and internal hexagonal connection. This procedure refers to the insertion of a 15 mm-long implant.

Ours drills do not have internal irrigation, it is therefore necessary to cool down their temperature during drilling. All drills have the short and the long version and both are provided with depth reference incisions.



Suggested drilling procedure for the insertion of the implants

Ø Implant	Precision drill	Ø 2,0	Ø 2,6	Counter sink CS-SP			
3.30 mm							
Ø Implant	Precision drill	Ø 2,0	Ø 2,6	Ø 3,2	Counter sink CS-MP		
3.75 mm							
Ø Implant	Precision drill	Ø 2,0	Ø 2,6	Ø 3,4	Counter sink CS-MP		
4.00 mm							
Ø Implant	Precision drill	Ø 2,0	Ø 2,6	Ø 3,4	Ø 3,8	Counter sink CS-MP	
4.25 mm							
Ø Implant	Precision drill	Ø 2,0	Ø 2,6	Ø 3,4	Ø 3,8	Ø 4,2	Counter sink CS-LP
5.00 mm							

SURGICAL KIT

Alpha surgical kits are designed to contain and make immediately available, under sterile conditions, all the components for the surgical intervention.

- One kit for all Alpha implants;
- A simple tray, smart and practical;
- Faster and well organized work thanks to an intuitive colour-code;
- Wide range of placement of the surgical tray for an extra comfort;
- The kit is modular and customizable according to the specific needs and preferences.



USE OF SURGICAL TRAY

Cleaning

1. Remove all the pieces contained in the kit and dismantle those composed;
2. Leave the pieces immersed for 15 minutes in a detergent solution;
3. Wash the pieces with ultrasound for 15 minutes using an enzymatic detergent with neutral pH diluted in water (according to product instructions);
4. Rinse with water for 3 minutes.



Sterilization

Dentists usually use sterilization with autoclave. Users must follow the instructions and the specific cycles recommended for the autoclave used.

The operating cycles that are generally used are:

- 121°C x 20 min. at 1 atm + drying
- 134°C x 3,5 min. at 2 atm + drying

INSTRUCTIONS FOR USE AND MAINTENANCE:

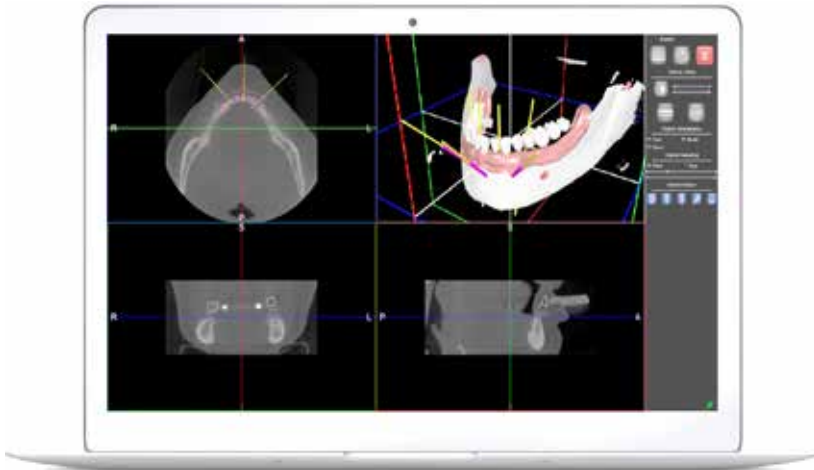
The kits are supplied in conditions of NON sterility, the user has therefore to arrange for the sterilization before use. Dry the kits with a soft cloth. Do not use abrasive sponges or metal parts which may damage the surface. Before sterilization is necessary to ensure that all the parts have been cleaned from the residual contaminants. The material may change its colour tone when exposed to UV rays for long periods. Keep the kit far from lights when not in use. The materials used can withstand a high number of sterilization cycles, it is recommended not to exceed the maximum values of tolerance estimated, which are: Maximum time: 20 min - maximum temperature 135 ° C and maximum pressure: 2.2 bar.



**GUIDED SURGERY
CAD/CAM**

GUIDED SURGERY

The Digital Systems IValtech are designed to achieve functionality and aesthetic success. We have combined the knowledge developed in implant fields with the experience in guided surgery systems. The result is a guarantee of quality, efficiency and reliability.



iVALTECH App
Available for Mac and
Windows

Also available as
SINGLE PATIENT LICENSE

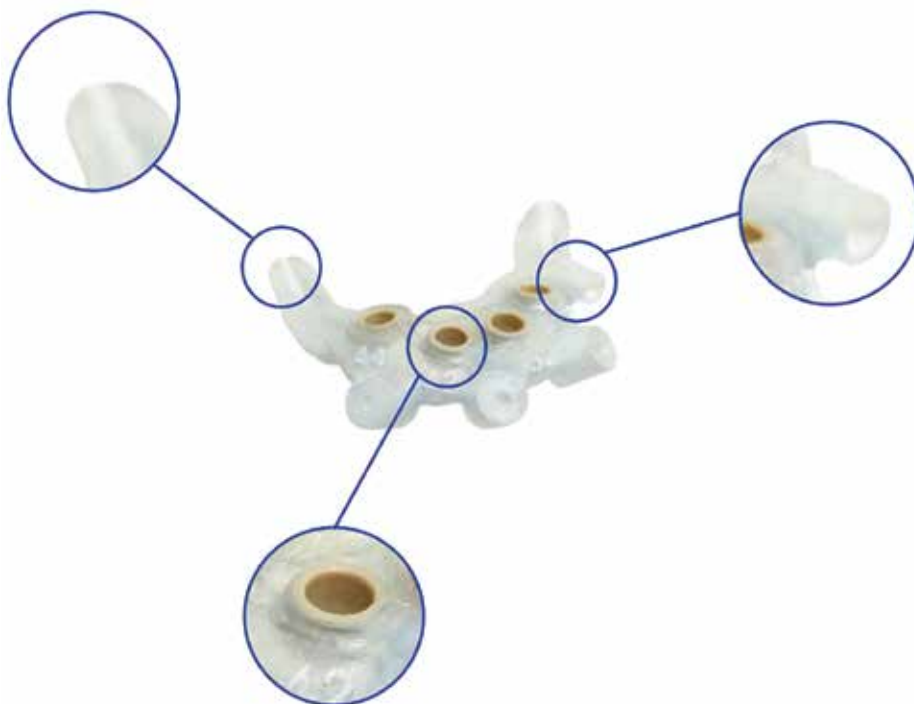
SIMPLE

IValtech protocol makes the planning and the guided surgery practical like the everyday surgery.

INTUITIVE

The system supports the habitual protocol without changing it. The doctor only handles the clinical aspect, not the technological one.

Autoclavable
PMMA
(121°)



**FIRST SYSTEM
IN THE WORLD**
with internal
irrigation
iVALTECH®

Numbered guide
sleeves in PEEK

CHARACTERISTICS

PRECISION, ACCURACY AND QUALITY

The protocol developed ensures the placement and allows to achieves optimal and customized results in terms of functionality and aesthetics.

IMPLANT REPORT

At the end of the planning the system automatically provides the list of the implants that will be used.

DRILLING SEQUENCE

iVALTECH system offers an ideal drilling protocol for the preparation of the implant site.

DRILLS WITH INTEGRATED STOP

The system integrates into the drills all the necessary components.

VERSATILITY

The system simplifies the concept of guided surgery, making it versatile for use with various techniques.

ASSISTANCE

Our team provides continuous assistance from planning to intervention.



All ALPHA products are designed with the most advanced virtual technologies. The production takes place with modern CAD/CAM milling techniques and high precision machines of the latest generation. The experience and the quality of processes ensure an accurate and functional outcome.



3D contact scanner

SCREWED IMPLANT BRIDGES

Material: biomedical Cobalt Chrome, zirconium or titanium Gr. 5
Indicated for crowns and bridges up to 14 units.

The implant bridges Alpha are developed using high-precision milling systems. They are made with a direct connection on the platforms of implants or MUA abutments and are supplied complete with screws. The implant bridges Alpha ensure the maximum precision of the connections and a passive adaptation to the platforms.

The materials used are highly biocompatible with the most popular veneering ceramics used in laboratory and they guarantee an excellent resistance to corrosion and high temperatures.



CAPS OR BRIDGES ON NATURAL TEETH

Material: biomedical Cobalt Chrome, zirconium or titanium Gr. 5
Indicated for the coating of natural teeth or for the restoration of one or more missing teeth.

The crown “encapsulates” the tooth with the aim of reinforcing it and improving the aesthetics. The bridge consists of capsules connected to intermediate elements and it is cemented to natural teeth, after they have been suitably prepared. Available up to 14 units.

The caps and the bridges Alpha are made with high precision milling systems.



CUSTOMIZED ABUTMENT

Material: biomedical Cobalt Chrome, zirconium or titanium Gr. 5
They are indicated for cemented or screwed prostheses and for ceramic-coated abutments. Alpha abutment are manufactured with high precision milling systems. The design is accurately managed determining the correct profile for a perfect integration with the soft tissues. Alpha abutments are supplied with cover screws and can be realized with the model and the diagnostic wax.



BAR FOR OVERDENTURE

Material: Titanium Gr. 5
Indicated for Overdenture
Alpha bars are made with high precision milling systems. They guarantee an ideal load transfer, an exceptional fit and a long-term stability. It is possible to develop, in addition, the titanium counter- bar for a more secure removal of the prosthesis. The slots for nylon retention caps are integrated into the bar limiting obstruction.





EFFEEMME
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