



LEADER  
italia





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Prof. **Aldo Macchi**  
Prof. **Adriano Piattelli**  
Prof. **Ugo Ripamonti**

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# The company



Established in 1996, Leader Italia srl is a company operating at international level in the field of production of implants, prostheses and related instruments with a high technological content, on the basis of the experience of the founders, undisputed leaders of the dental market since 1976.

Leader Italia was created from the idea of the members of Novaxa SpA, first as a manufacturer of prosthetic parts, then as a producer and distributor of an implants line.

During the 2000s, Leader Italia started to cooperate with several universities and it gradually introduced its own manufactured and patented products.

Today, Leader Italia has the business and manufacture headquarters based in Cinisello Balsamo.

The headquarters of the company has been expanded in the last decade, increasing the total surface to accommodate the evolved production departments, following a continuous expansion.

The production department is equipped with different CNC machines, as well as specific machine tools supported by the most modern robotic technology that is used for the machining of special parts.

The production department hosts the laser machine dedicated to the realization of the innovative 3D surface applied to implants and custom components, unique in the market.

There are departments where dedicated operations are performed: cleaning, automatic washing, implant surfaces treatment, plasma decontamination, and galvanic coloration.

The company is equipped with a cleanroom for the assembly and packaging of the products in an ISO5 controlled environment with an ISO3 section delimited by straps.

There is also a packing department with semi-automatic blistering machines in a controlled environment.

Operating in the field of precision mechanics, Leader Italia has to apply very small tolerances, expressed in microns, and to perform daily direct checks on semi-finished and finished product using sophisticated control equipment such as micrometers, comparators of planarity, profile projectors, automatic optical systems, optical microscopes, scanning electron microscopes and equipment for the analysis of micro-hardness, a metrology room and laser scanners.







MIRLIN MACHINES SA

2

Control panel display

Control panel with emergency stop and start buttons

ROBOTECH  
EPO-RESIST  
SART

# Today

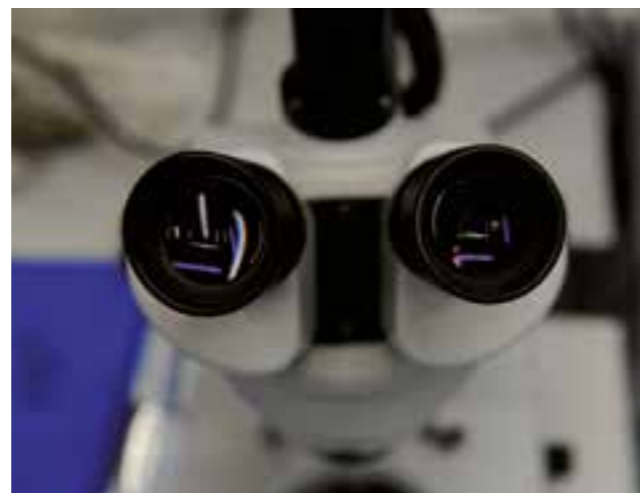
For the last twenty years, Leader has been experiencing a very important and rapid growth in terms of international expansion, mainly due to the following strong points of the company:

- a strong commitment to research and training;
- the synergy of prestigious universities (see list thereof), able to rely on very important international research groups and opinion leaders from all over the world;
- direct manufacture managing and monitoring all production phases;
- more than 80 national and international publications on Leader Italia implants.

The strategy has enabled the company to achieve and maintain important registrations and quality certificates:

**COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV**  
= ISO 13485 =

**COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV**  
= ISO 9001 =



Leader Italia distributes its products throughout the national and international markets, supported by sales agents in the domestic territory and international area managers.

The company operates in international markets through exclusive distributors who promote the Leader Italia implants lines successfully.

#### COOPERATION WITH UNIVERSITIES:

University of Chieti: Professor Caputi and Professor Piattelli

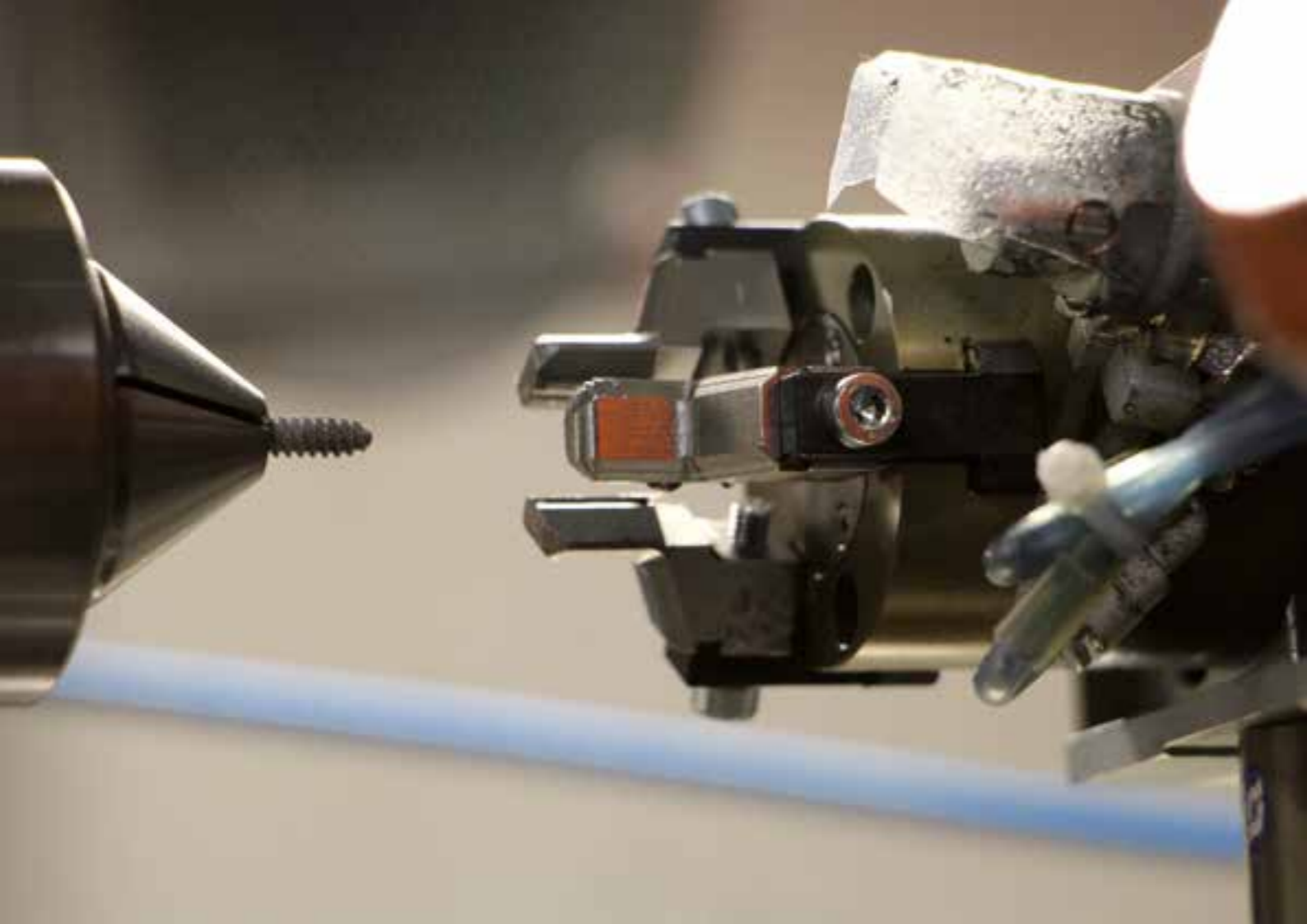
University of Naples: Professor Papaccio

University of Varese: Professor Macchi, Professor Mangano and Professor Raspanti

University of Guarulhos in Sao Paulo: Professor Shibli

University of Birmingham: Professor Sammons

University of Johannesburg: Professor Ripamonti





# Products

## DIRECT LASER METAL FORMING (DLMF) TECHNIQUE

### THE TIXOS MANUFACTURING PROCESS

Until now, dental implants currently available on the market have been produced by machining titanium rods, with subsequent post-fabrication processing and application of surface treatments or coatings, with the aim to promote osseointegration, accelerating

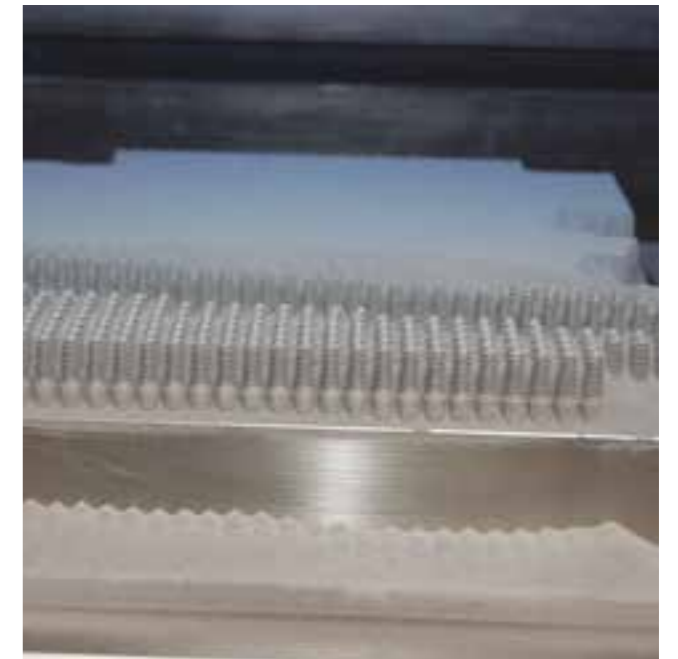
the bone healing processes. In the last years, considerable progress has been made in the development of rapid prototyping (RP) methods, including Direct Laser Metal Forming (DLMF).

DLMF is a timesaving metal forming procedure in which an high power laser beam is directed on a metal powder bed and programmed to fuse particles according to a CAD file, thus generating a thin metal layer.

Apposition of subsequent layers gives shape to a desired 3D form with the need of minimal post-processing requirements. With DLMF, it is now possible to fabricate dental implants with different shapes and textures, directly from CAD models.

### TIXOS IS THE FIRST DENTAL IMPLANT IN THE WORLD MANUFACTURED BY DIRECT LASER METAL FORMING TECHNIQUE

*Implant is computer designed in 3D. The desired model is produced by fusion of the metal powder nano-particles through a focused laser beam.*





## The tridimensional porous structure

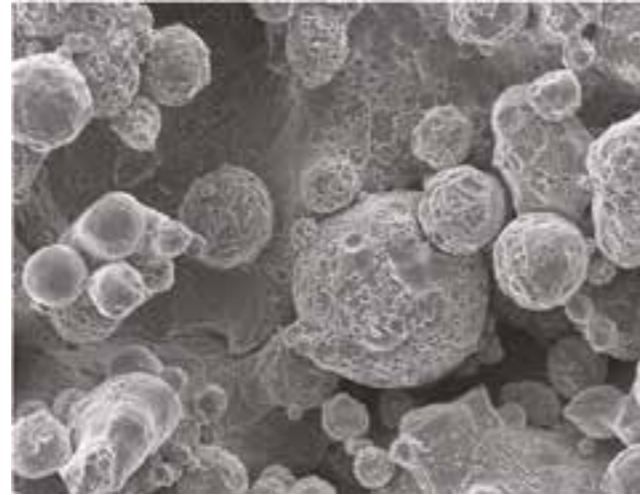
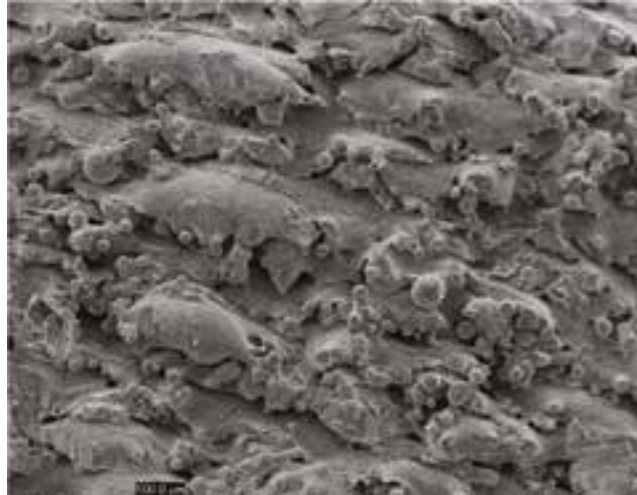
TiXos implant, manufactured through this laser forming methods is a functionally graded fixture, possessing a gradient of porosity perpendicular to the long axis, with a relatively high porosity at the surface and an high density in the core.

Around a very compact core an isoelastic surface is created, which replicates the bone spongy geometry; such a structure - impossible to obtain through the traditional treating surface processes - is highly mimetic, thus accelerating bone healing and enhancing faster osseointegration, as demonstrated by different in vitro and in vivo human studies.

The mechanical characteristics of TiXos implants are excellent, while the surface morphology promotes bone healing, enhancing 3D organization of fibrin network, cell adhesion and migration, fluids and nutritional elements exchanges and the development of proper vascularization aiming to the organization of bone matrix.

The tridimensional geometry constituted by micro and macro-cavities of well defined sizes and form, interconnected by micro-pores, promotes bone formation.

The concavities, with size 2 to 200 microns, penetrate deep inside the implant body down to 250 microns, creating interconnected pits and pores that are colonized by bone cells.



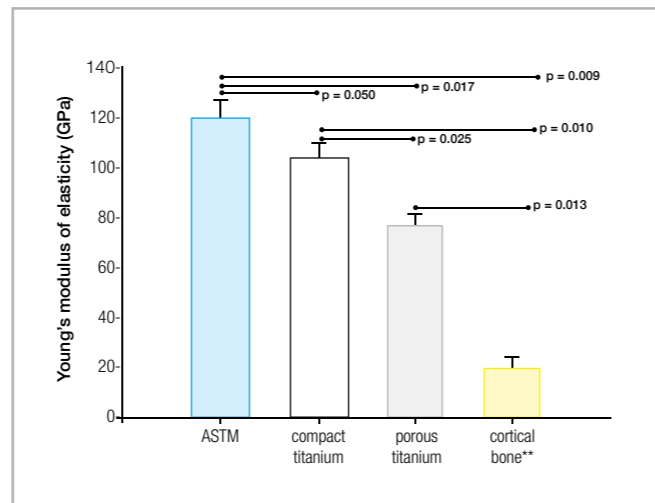
Tixos surfaces - at different magnifications - features interconnected cavities and pores.

## Isoelastic structure

Another extraordinary feature, demonstrated by the studies carried out by Prof. R. Sammons at the University of Birmingham, is the isoelasticity of the surface, that has a Young module very similar to the bone one, while the implant core maintains the characteristic Young module of titanium, as for ASTM standards.

The isoelasticity gives the implant a structure very close to the bone, more similar than any other implant on the market.

Young's modulus of elasticity of compact core and porous region of the specimens compared to ASTM values and values of cortical bone.



## In vitro and in vivo studies

In vitro studies carried out by Prof. R. Sammons at the University of Birmingham (UK) and by Prof. G. Papaccio at the II University of Naples (Italy), the researches carried out by the Universities of Varese and Chieti (Italy) and clinical-histological trials carried out on animals and humans by Prof. J.A. Shibli at the University

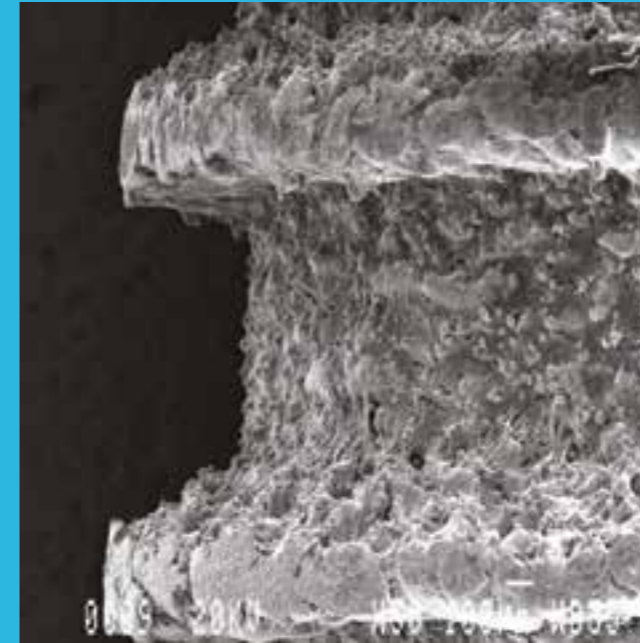
of Guarulhos, Sao Paulo (Brazil), have demonstrated the capability of these implants to accelerate bone healing, thus improving a faster osseointegration compared with the traditional surfaces on the market, and allowing bone formation (down to 200 microns) inside the isoelastic porous structure.

## IN VITRO RESEARCHES

The biological response to the TiXos implant surface has been investigated in different in vitro studies, in which human fibrin clot

formation and the behaviour of human osteoblast and mesenchymal stem cells have been analyzed.

Osteoblast cells colonized the implant surface.



Fibrin clot adheres to the surface.



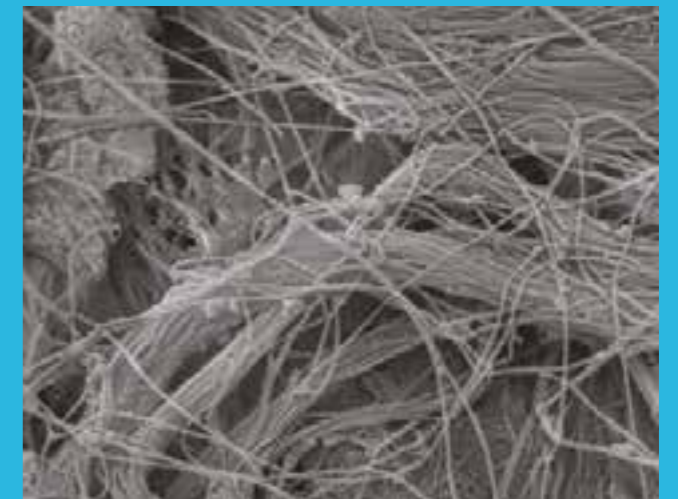
## IN VIVO RESEARCHES

Histological studies on human have demonstrated the rapid growth of newly-formed bone inside the interconnected cavities of the micro-fused titanium surface and the perfect adherence between the implant neck and soft tissues.

Implant retrieved after 8 weeks shows new bone ingrowth inside the surface cavities.



The connective fibers get perpendicularly on the TiXos surface.



# FEATURES OF LEADER IMPLUS IMPLANTS

## TITANIUM

IMPLUS fixtures are made of pure titanium ASTM, grade 4, with breaking load Mpa 550; whereas NANO and ORTHOSCREW fixtures are made of titanium ASTM, grade 5, with breaking load Mpa 900. Titanium is highly reactive: on the surface it combines with oxygen building a titanium oxide layer (TiO<sub>2</sub>).

Titanium is the ideal metal to manufacture dental implants thanks to its outstanding mechanical characteristics (fatigue strength) and bio-compatibility.

It consists of a crystal metallurgical structure with a compact hex reticule (phase A-stable up to 882 °C) and a cubic structure with centred body (phase B-stable up to 900 °C).

The low density (4,5 g/cm<sup>3</sup>) gives it an extreme lightness that, together with the high mechanical resistance, optimizes its qualities. Vickers Hardness 210/220. Well known is the optimum resistance to corrosion and to chemical aggression due to the extraordinary stability of the passive protection of the surface oxide.

## MACRO VS MICRO ETCHING

In implantology, several surfaces have shown good clinical successes, but the present topic of major discussion is if one surface can offer

greater advantages than others in terms of healing time and osseointegration degree in different bone districts (figures A and B).

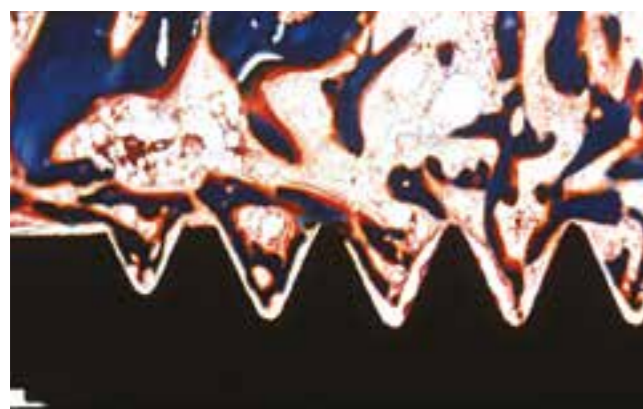


Fig. A - Microscope view of the bone-implant interface. The bone already grows directly on the new bio-mimetic surface one month after the insertion.

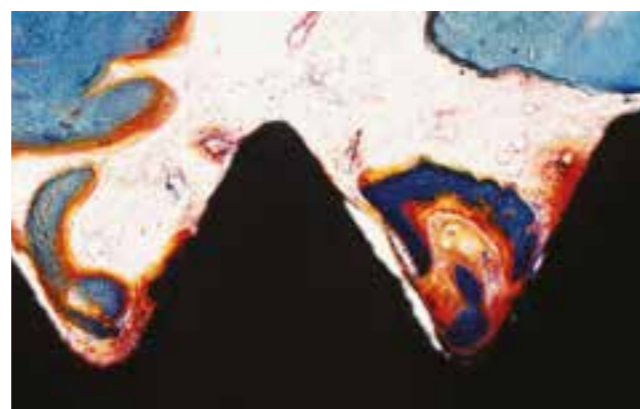


Fig. B - With a greater magnification it is possible to see the new-formed bone deposited on the new surface and the intensive osteoblastic and angiogenetic activity.

The macro and micro-etching processes are both subtraction procedures, based on the removal of material - the titanium in this case.

### MACRO-ETCHING

1. sandblasting of the surface
2. acid etching

Macro-cavities are obtained (80-100 micron) with an internal roughness of 15-20 micron created by the acid etching

### MICRO-ETCHING

1. acid etching only

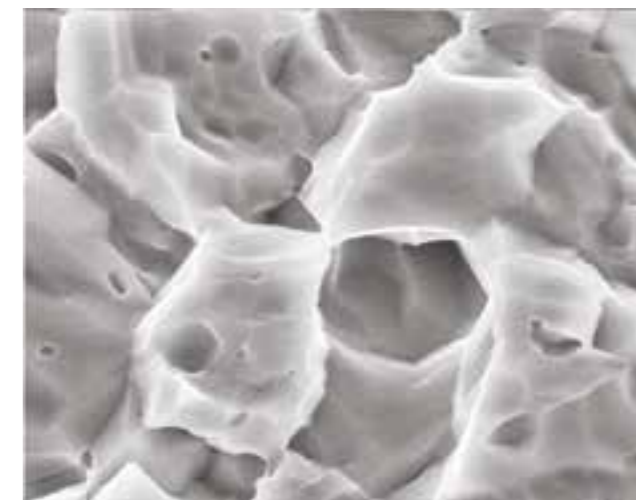
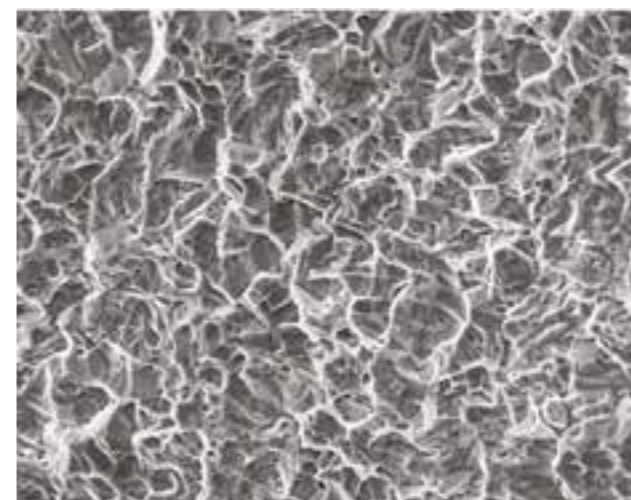
Micro-cavities are obtained of nearly 5-13 micron

With reference to the dimensions of the cavities created by the etching, the literature puts in evidence that the rough surface with microcavities offers the best healing power.

The most recent literature have demonstrated that the osteoblastic cells distributed themselves better on micro rough surfaces than

on macro rough ones.

The micro rough surface improves the primary stability of the implant with the advantage of a precocious orientation of the fibrin structure, with a reduction of the healing period and an ideal osteoblastic induction.



## The importance of Geometry

The international literature demonstrated that the surface roughness causes an effect on proliferation, on differentiation and on the protein synthesis of osteoblastic cells.

Numerous studies suggest that the quality of the osseointegration and the stability inside the bone much depend on the geometry of the implant surface.

Moreover, the rough surfaces with definite geometry enhance the fibrin stabilization in the very first moments after the insertion of the implant, facilitating the healing processes.

The researches carried out in the last decades have highlighted how the geometry of the implant surface induces a greater concentration of the growth factors involved in the bone formation; moreover, the osteoblastic cells interact better with such surfaces than with smooth or only macro-rough ones.

The surfaces with a geometry defined by cavities of uniform appearance induce a better bone reaction, influencing the healing processes and accelerating the osseointegration phenomenon.

## LEADER IMPLUS implants surface

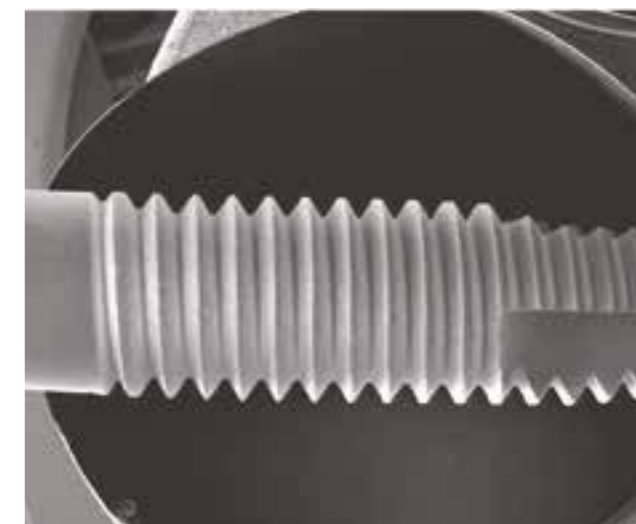
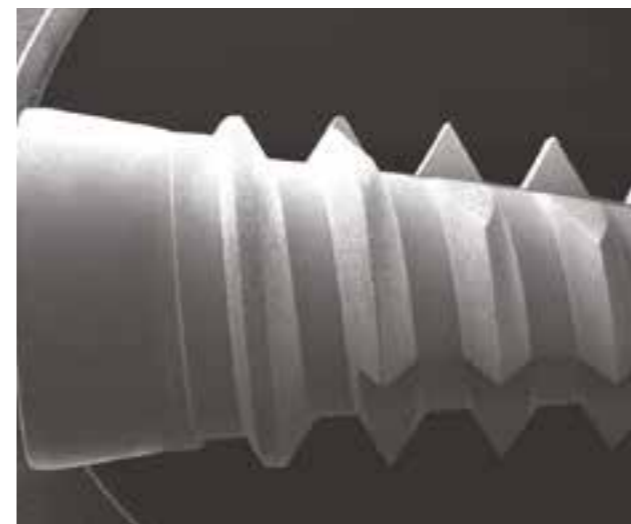
The LEADER implants present a defined geometry of their surfaces obtained through an innovative treatment with a mixture of organic acids that produces a uniform appearance with micro-cavities (unique B.O.A.T treatment: Biological Organic Acid Treatment).

This new surface can stimulate and accelerate the phenomenon of bone healing, thus obtaining a faster osseointegration that suits better to the need of anticipating the functional load.

The uniform micro-cavities growing on the surface of the Implus implants help the absorption of the specific proteins that stimulate the bone formation inside the cavities.

Researches carried out in vitro, on nonhuman primates and on humans highlighted how the so treated surfaces (LEADER) induced a fast bone growth and that the very first bone formation had taken place in the cavity.

This is in accordance with what was demonstrated by Prof. Ripamonti, in numerous experiments on the baboon monkeys, which allowed him to codify the term of "geometric induction of the bone formation".



# Identification of Leader Italia implants



## Patient card

Each implant package contains also the patient card which is destined to the attachment of the labels which depicts the inserted implant description and to collect all the operating data. It is recommended to fill in the patient card completely and hand it to the patient, informing him/her to take it at each follow-up session.



## Labels

The label on the vial and those contained in the package depict all necessary data to trace back the inserted implant. It is recommended to attach the labels on the patient clinical folder and on the patient card, so as to ensure complete product traceability.



Batch code



Symbol of conformity to CEE n° 93/42 related to Medical Devices



Use by



Consult instructions for use



Do not reuse (single use)



Sterilized using irradiation



Do not use if the product sterilization barrier or its packaging is compromised



Caution



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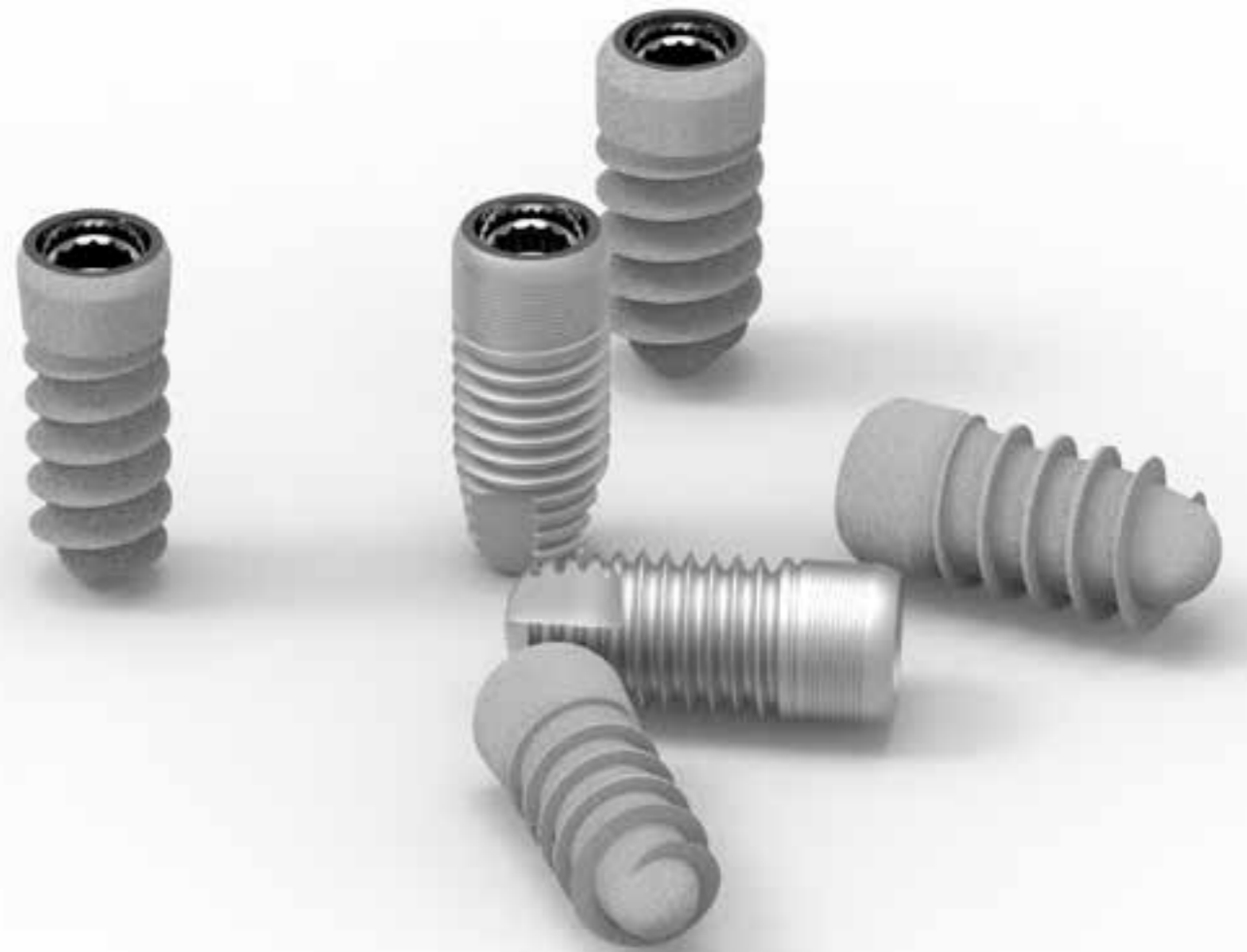
*Morse connection*

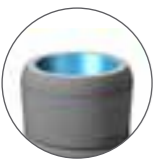




*Implants*

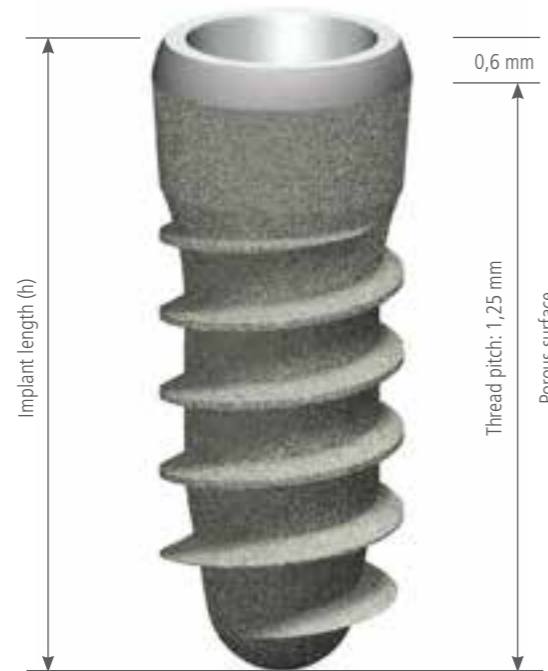
# *Implants*





Tixos MC

Treated neck



3.6

Unique Platform

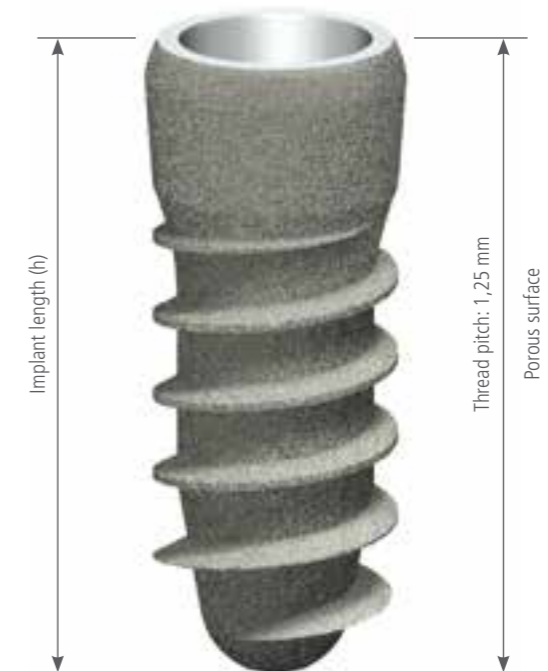


	Implant Ø3,75 mm	Implant Ø4,5 mm	Implant Ø5,5 mm
<b>Core Ø</b>	3,0 mm	3,5 mm	4,5 mm
<b>Apex Ø</b>	2,3 mm	2,85 mm	4,0 mm
	<b>Treated neck</b>	<b>Treated neck</b>	<b>Treated neck</b>
<b>Implant length (h)</b>	<b>Code</b>	<b>Code</b>	<b>Code</b>
8,0 mm	09ITMC3708	09ITMC4508	09ITMC5508
10,0 mm	09ITMC3710	09ITMC4510	09ITMC5510
11,5 mm	09ITMC3711	09ITMC4511	09ITMC5511
13,0 mm	09ITMC3713	09ITMC4513	09ITMC5513
15,0 mm	09ITMC3715	09ITMC4515	//



Tixos MC

Tixos neck



3.6

Unique Platform



	Implant Ø3,75 mm	Implant Ø4,5 mm	Implant Ø5,5 mm
<b>Core Ø</b>	3,0 mm	3,5 mm	4,5 mm
<b>Apex Ø</b>	2,3 mm	2,85 mm	4,0 mm
	<b>Tixos neck</b>	<b>Tixos neck</b>	<b>Tixos neck</b>
<b>Implant length (h)</b>	<b>Code</b>	<b>Code</b>	<b>Code</b>
8,0 mm	09ITMC3708TN	09ITMC4508TN	09ITMC5508TN
10,0 mm	09ITMC3710TN	09ITMC4510TN	09ITMC5510TN
11,5 mm	09ITMC3711TN	09ITMC4511TN	09ITMC5511TN
13,0 mm	09ITMC3713TN	09ITMC4513TN	09ITMC5513TN
15,0 mm	09ITMC3715TN	09ITMC4515TN	//





## Surgical protocol

Recommended first preparation

Tools	Round drill	Cortical drill
Code	DS19S	DSP18
Ø(mm)	1,9	1,8
Max (rpm)	1.000	800

### LEGEND

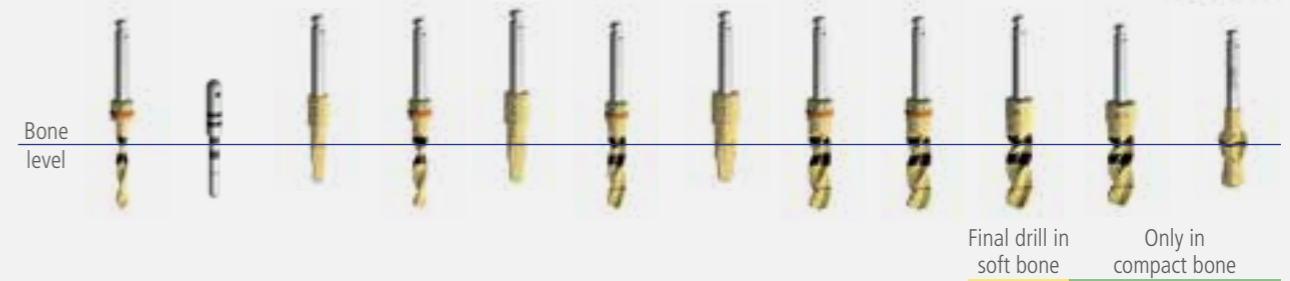
Recommended drill sequence	Optional tools	D3-D4 Soft bone	D1-D2 Compact bone

### Surgical protocol step by step for implant Ø 3,75 mm



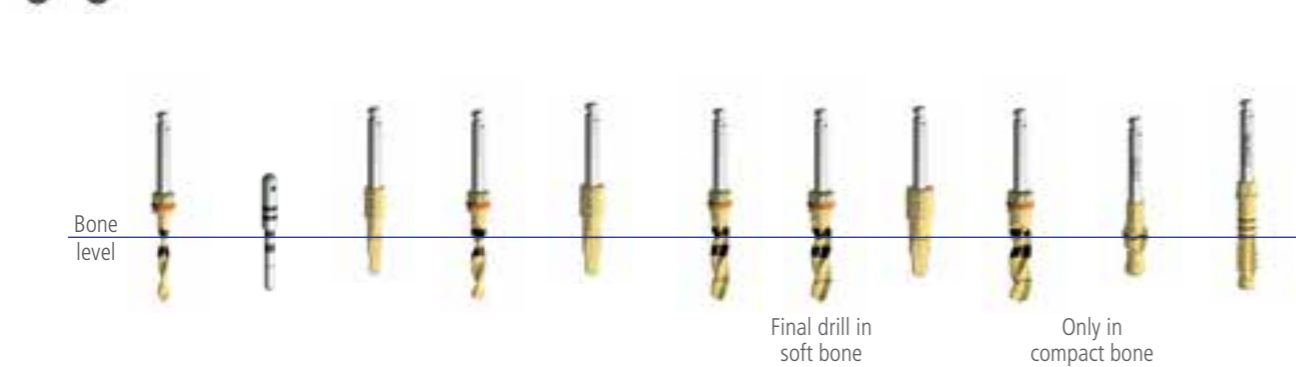
Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Twist drill UNICA	Step drill	Twist drill UNICA	Countersink	Bone tap
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	DSS30S/L	DSP2632	DSS32S/L	CST40	CTCAT37
Ø(mm)	2,0		2,0/2,6	2,6	3,0	2,6/3,2	3,2	4,0	3,7
Max (rpm)	800		500	500	500	500	500	250	15-18

### Surgical protocol step by step for implant Ø 5,5 mm



Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Step drill	Twist drill UNICA	Step drill	Twist drill UNICA	Twist drill UNICA	Twist drill UNICA	Twist drill UNICA	Countersink
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	DSP2632	DSS32S/L	DSP3238	DSS38S/L	DSS42S/L	DSS45S/L	DSS48S/L	CST60
Ø(mm)	2,0		2,0/2,6	2,6	2,6/3,2	3,2	3,2/3,8	3,8	4,2	4,5	4,8	6,0
Max (rpm)	800		500	500	15-18	500	500	500	500	400	400	250

### Surgical protocol step by step for implant Ø 4,5 mm

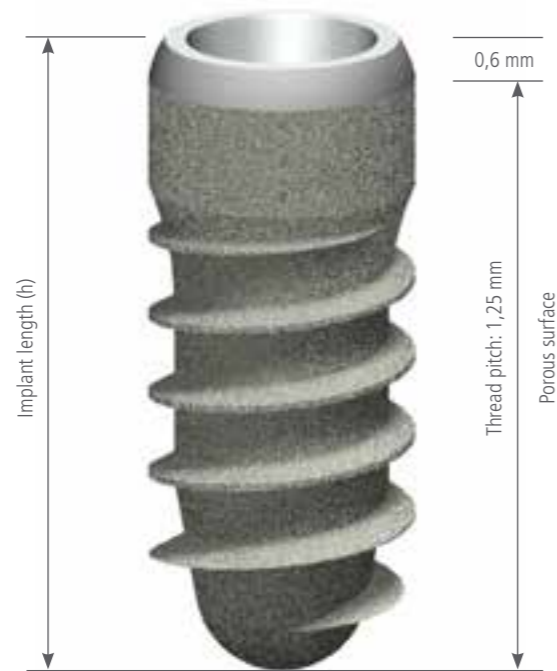


Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Step drill	Twist drill UNICA	Twist drill UNICA	Step drill	Twist drill UNICA	Countersink	Bone tap
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	DSP2632	DSS32S/L	DSS35S/L	DSP3238	DSS38S/L	CST50	CTCAT45
Ø(mm)	2,0		2,0/2,6	2,6	2,6/3,2	3,2	3,5	3,2/3,8	3,8	5,0	4,5
Max (rpm)	800		500	500	500	500	500	500	500	250	15-18



# Tixos MC straight

**Straight treated neck**



3.6

Unique Platform

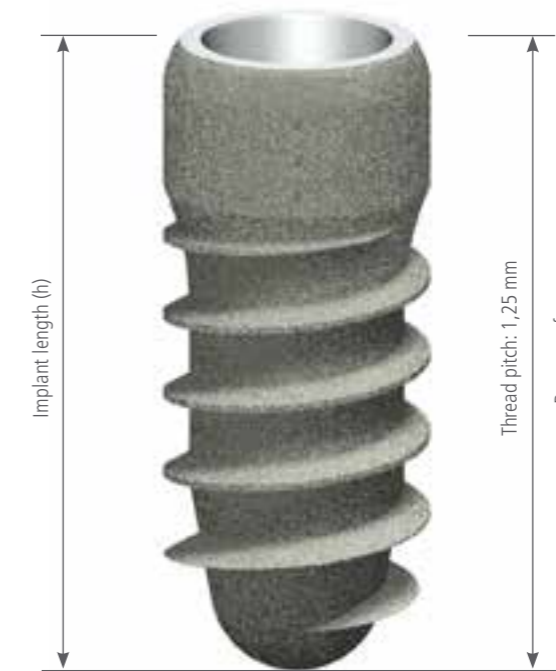


	Implant Ø4,1 mm	Implant Ø4,5 mm	Implant Ø5,5 mm
<b>Core Ø</b>	3,3 mm	3,5 mm	4,5 mm
<b>Apex Ø</b>	1,8 mm	2,1 mm	2,7 mm
<b>Implant length (h)</b>	<b>Code</b>	<b>Code</b>	<b>Code</b>
8,0 mm	09ITMCS4108	09ITMCS4508	09ITMCS5508
10,0 mm	09ITMCS4110	09ITMCS4510	09ITMCS5510
11,5 mm	09ITMCS4111	09ITMCS4511	09ITMCS5511
13,0 mm	09ITMCS4113	09ITMCS4513	09ITMCS5513
15,0 mm	09ITMCS4115	09ITMCS4515	//



# Tixos MC straight

**Straight Tixos Neck**



3.6

Unique Platform



	Implant Ø4,1 mm	Implant Ø4,5 mm	Implant Ø5,5 mm
<b>Core Ø</b>	3,3 mm	3,5 mm	4,5 mm
<b>Apex Ø</b>	1,8 mm	2,1 mm	2,7 mm
<b>Implant length (h)</b>	<b>Code</b>	<b>Code</b>	<b>Code</b>
8,0 mm	09ITMCS4108TN	09ITMCS4508TN	09ITMCS5508TN
10,0 mm	09ITMCS4110TN	09ITMCS4510TN	09ITMCS5510TN
11,5 mm	09ITMCS4111TN	09ITMCS4511TN	09ITMCS5511TN
13,0 mm	09ITMCS4113TN	09ITMCS4513TN	09ITMCS5513TN
15,0 mm	09ITMCS4115TN	09ITMCS4515TN	//





## Surgical protocol

Recommended first preparation

Tools	Round drill	Cortical drill
Code	DS19S	DSP18
Ø(mm)	1,9	1,8
Max (rpm)	1.000	800

### LEGEND

Recommended drill sequence	Optional tools	D3-D4 Soft bone	D1-D2 Compact bone

### Surgical protocol step by step for implant Ø 4,1 mm



Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Twist drill UNICA	Step drill	Twist drill UNICA	Twist drill UNICA	Bone tap
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	DSS30S/L	DSP2632	DSS32S/L	DSS35S/L	CTCAT37
Ø(mm)	2,0		2,0/2,6	2,6	3,0	2,6/3,2	3,2	3,5	3,7
Max (rpm)	800		500	500	500	500	500	500	15-18

It is not necessary the use of countersink

### Surgical protocol step by step for implant Ø 5,5 mm



Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Step drill	Twist drill UNICA	Step drill	Twist drill UNICA	Twist drill UNICA	Twist drill UNICA	Twist drill UNICA
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	DSP2632	DSS32S/L	DSP3238	DSS38S/L	DSS42S/L	DSS45S/L	DSS48S/L
Ø(mm)	2,0		2,0/2,6	2,6	2,6/3,2	3,2	3,2/3,8	3,8	4,2	4,5	4,8
Max (rpm)	800		500	500	15-18	500	500	500	500	400	400

It is not necessary the use of countersink

### Surgical protocol step by step for implant Ø 4,5 mm



Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Step drill	Twist drill UNICA	Twist drill UNICA	Step drill	Twist drill UNICA	Bone tap
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	DSP2632	DSS32S/L	DSS35S/L	DSP3238	DSS38S/L	CTCAT45
Ø(mm)	2,0		2,0/2,6	2,6	2,6/3,2	3,2	3,5	3,2/3,8	3,8	4,5
Max (rpm)	800		500	500	500	500	500	500	500	15-18

It is not necessary the use of countersink



### Packaging

- Packaging in compliance with ISO 11607-1 and 2.
- Sterilization by gamma rays 25 kGy
- Sterility guaranteed for 5 years by waterproof double packaging in airtight sealed glass vial and blister
- The packaging contains: Implant held by mount-transfer, surgical screw



The surgical screw code 01SSMC is included in the packaging.

### Features

- Fixture in titanium, Grade 5
- Microfused, porous, isoelastic surface
- Interconnected cavities: 2-200 microns
- Active porous surface thickness: about 250 microns
- Unique, standardized platform diameter
- Conical connection with anti-rotation hex
- Perfect seal at implant/abutment interface
- Platform switching
- High adherence to bone structure
- Great resistance to horizontal stresses
- Round apex: minimum trauma during insertion

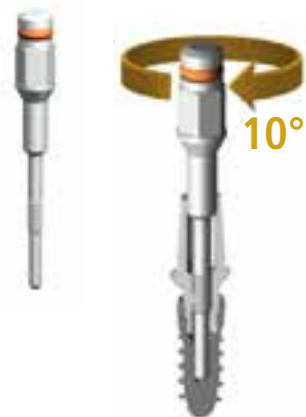
\*Available with NO MOUNT version. For any further information please contact Leader Italia.

### Mount-transfer

TIXOS MC implants are equipped with a transport tool that allows the surgeon to transport and position the implant in conditions of absolute sterility. The mount-transfer is screwed on the implant through a passing screw (M1,6) to be discarded after the insertion of the implant. The upper part of the transfer has an hex ES 2.43. When using a custom tray, the long passing screw code PSMCL has to be ordered separately.



### Extraction tool



Titanium. The extraction tool is used:  
 - By the doctor, to remove healing screws and abutments from implant  
 - By the technician, to remove abutments from analog

#### INDICATIONS FOR USE

After removing the passing screw from the component to be extracted, insert the extraction tool (code 01PSEMC) - either manually or by the manual digma (code 01TLM) - and screw it down as long as it stops; then keep on turning it clockwise about 10° to unlock the morse connection.



Now you can remove the assembly tool/abutment (or tool/healing screw).

### Implant positioning

#### NOTE:

#### Treated neck implants code 09ITMC...

We suggest inserting the implant with this neck either bone level or 1.0 mm below (according to bone type and up to the surgeon).

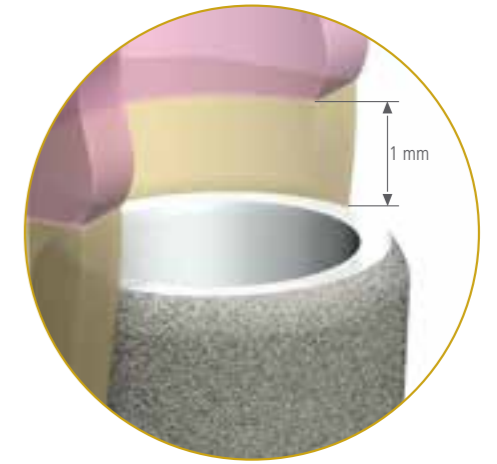
#### Tixos neck implant code 09ITMC...TN

We suggest inserting the implant with this neck 1 mm below the bone crest in order to enhance bone growth.

TIXOS MC implants are not transmucous or semi-transmucous fixtures.

#### RECOMMENDATION FOR SURGICAL SITE PREPARATION:

It is always suggested preparing the site about 0.5/1.0 mm deeper, to be able to position the implant neck at the desired depth.



### Features

- tapered connection WITH anti-rotation HEX
- unique, standardized prosthetic platform
- intimate contact implant / abutment
- platform switching

### Advantages

- high precision of the abutment in the implant
- no micro-movements
- high stability
- common prosthetic components for all implant diameters
- no bacterial infiltration
- prevents bone resorption
- real seal to protect the peri-implant tissues
- better stability of both hard and soft tissues
- maximum conservation of the coronal bone around the implant platform
- better aesthetic result

Ø5,0 Ø6,0

### Two transmucous diameters



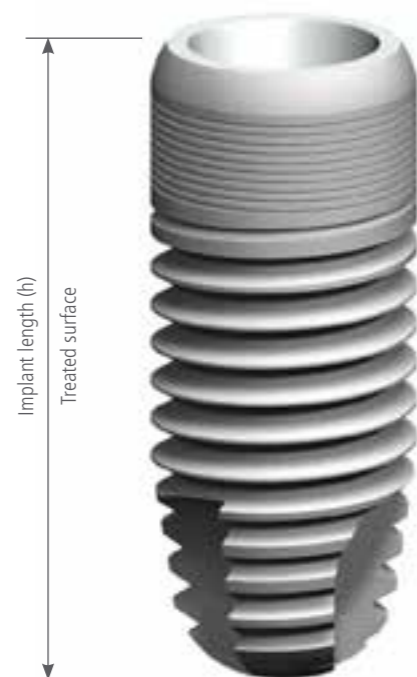
h1,0 h2,0 h3,5

### Three transmucous heights



NOTE We recommend to replace the o-rings frequently, since they are susceptible to wear due to frequent sterilization cycles.

# IMPLUS MC



3.6

Unique Platform



	Implant Ø3,75 mm	Implant Ø4,1 mm	Implant Ø4,5 mm	Implant Ø5,5 mm
<b>Core Ø</b>	2,6 mm	3,0 mm	3,5 mm	4,5 mm
<b>Apex Ø</b>	1,8 mm	2,1 mm	2,7 mm	3,7 mm
<b>Thread pitch</b>	0,6 mm	0,6 mm	0,75 mm	0,75 mm
<b>Implant length (h)</b>	<b>Code</b>	<b>Code</b>	<b>Code</b>	<b>Code</b>
<b>8,0 mm</b>	01IMC3708TTS	01IMCS4108TTS	01IMCS4508TTS	01IMCS5508TTS
<b>10,0 mm</b>	01IMC3710TTS	01IMCS4110TTS	01IMCS4510TTS	01IMCS5510TTS
<b>11,5 mm</b>	01IMC3711TTS	01IMCS4111TTS	01IMCS4511TTS	01IMCS5511TTS
<b>13,0 mm</b>	01IMC3713TTS	01IMCS4113TTS	01IMCS4513TTS	01IMCS5513TTS
<b>15,0 mm</b>	01IMC3715TTS	01IMCS4115TTS	01IMCS4515TTS	//

## Packaging

- Packaging in compliance with ISO 11607-1 and 2
- Sterilization by gamma rays 25 kGy
- Sterility guaranteed for 5 years by waterproof double packaging in airtight sealed glass vial and blister
- The packaging contains: Implant held by a titanium mount-transfer Surgical screw.



The surgical screw code 01SSMC is included in the packaging.



## Mount-transfer

IMPLUS MC implants are equipped with a transport tool that allows the surgeon to transport and position the implant in conditions of absolute sterility. The mount-transfer is screwed on the implant through a passing screw (M1,6) to be discarded after the insertion of the implant. The upper part of the transfer has an hex ES 2.43. When using a custom tray, the long passing screw code PSMCL has to be ordered separately.



\*Available with NO MOUNT version. For any further information please contact Leader Italia.



## Surgical protocol

Recommended first preparation

Tools	Round drill	Cortical drill
Code	DS19S	DSP18
Ø(mm)	1,9	1,8
Max (rpm)	1.000	800

### LEGEND

Recommended drill sequence	Optional tools	D3-D4 Soft bone	D1-D2 Compact bone

### Surgical protocol step by step for implant Ø 3,75 mm



Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Bone tap
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	CT33/CTCA33
Ø(mm)	2,0		2,0/2,6	2,6	4,5
Max (rpm)	800		500	500	15-18

It is not necessary the use of countersink

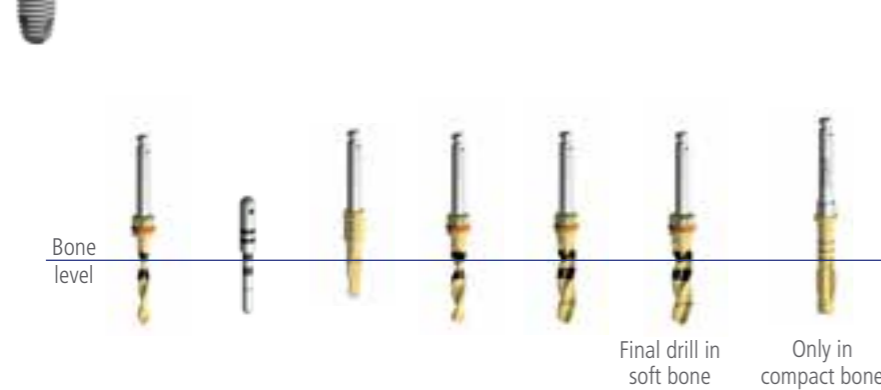
### Surgical protocol step by step for implant Ø 4,5 mm



Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Step drill	Twist drill UNICA	Twist drill UNICA	Bone tap
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	DSP2632	DSS32S/L	DSS38S/L	CT45/CTCA45
Ø(mm)	2,0		2,0/2,6	2,6	2,6/3,2	3,2	3,8	4,5
Max (rpm)	800		500	500	500	500	400	15-18

It is not necessary the use of countersink

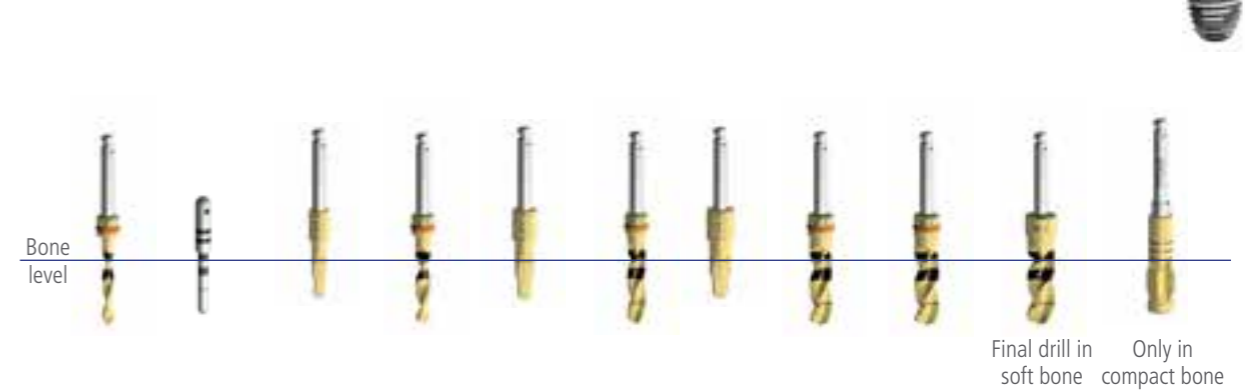
### Surgical protocol step by step for implant Ø 4,1 mm



Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Twist drill UNICA	Twist drill UNICA	Bone tap
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	DSS32S/L	DSS35S/L	CT37/CTCA37
Ø(mm)	2,0		2,0/2,6	2,6	3,2	3,5	3,7
Max (rpm)	800		500	500	500	500	15-18

It is not necessary the use of countersink

### Surgical protocol step by step for implant Ø 5,5 mm



Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Step drill	Twist drill UNICA	Step drill	Twist drill UNICA	Twist drill UNICA	Twist drill UNICA	Bone tap
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	DSP2632	DSS32S/L	DSP3238	DSS38S/L	DSS42S/L	DSS48S/L	CT55/CTCA55
Ø(mm)	2,0		2,0/2,6	2,6	2,6/3,2	3,2	3,2/3,8	3,8	4,2	4,8	4,5
Max (rpm)	800		500	500	500	500	500	500	500	400	15-18

It is not necessary the use of countersink



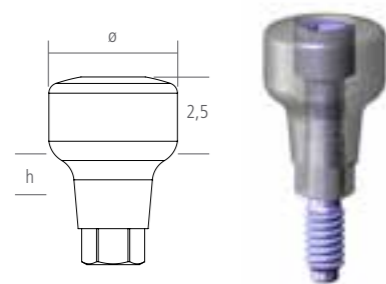


*Healing  
screws*

MC - HEALING SCREWS

# *Healing screws*





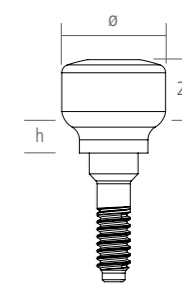
### Titanium healing screw two pieces

- Titanium gr. 5
- Different heights
- With passing screw

### Titanium healing screw one piece

- Titanium gr. 5
- Different heights
- Fix using standard driver cod. TLMR12L/S

NOTE recommended torque max. 5 Ncm



3.6

Platform



#### Transmucous Ø5,0 mm

Code	Height h	Passing Screw	Packaging
01HCMC1	1,0 mm	PSMC1	1 piece
01HCMC2	2,0 mm	PSMC2	1 piece
01HCMC3	3,5 mm	PSMC3	1 piece



#### Transmucous Ø6,0 mm

Code	Height h	Passing Screw	Packaging
01HCMC160	1,0 mm	PSMC1	1 piece
01HCMC260	2,0 mm	PSMC2	1 piece
01HCMC360	3,5 mm	PSMC3	1 piece

#### Transmucous Ø5,0 mm

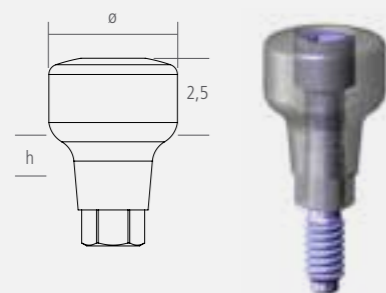
Code	Height h	Packaging
01HCMCP1	1,0 mm	1 piece
01HCMCP2	2,0 mm	1 piece
01HCMCP3	3,5 mm	1 piece

#### Transmucous Ø6,0 mm

Code	Height h	Packaging
01HCMCP160	1,0 mm	1 piece
01HCMCP260	2,0 mm	1 piece
01HCMCP360	3,5 mm	1 piece

3.6

Platform



### Tecapeek healing screw

- Aesthetic
- Biocompatible
- Inhibition to bacterial attack
- Chemical inertia
- Auotclavable
- Different heights
- With passing screw

3.6

Platform



#### Transmucous Ø5,0 mm

Code	Height h	Passing Screw	Packaging
01HPKMC1	1,0 mm	PSMC1	1 piece
01HPKMC2	2,0 mm	PSMC2	1 piece
01HPKMC3	3,5 mm	PSMC3	1 piece



#### Transmucous Ø6,0 mm

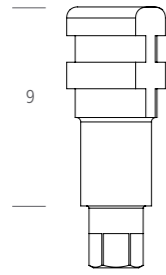
Code	Height h	Passing Screw	Packaging
01HPKMC160	1,0 mm	PSMC1	1 piece
01HPKMC260	2,0 mm	PSMC2	1 piece
01HPKMC360	3,5 mm	PSMC3	1 piece



*Impression  
components*

*Impression  
components*





## Impression transfer

- Titanium gr. 5
- Packed with long passing screw

3.6

Platform



Code	Screw	Packaging
01TRMCC4N	PSMCL	1 piece

### Direct impression technique (close tray)

To use the transfer with direct impression technique, order separately the standard passing screw (code PSMC1).



Code	Screw	Packaging
01TRMC45N	PSMCL	1 piece

### Direct impression technique (close tray)

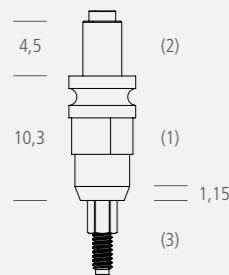
To use the transfer with direct impression technique, order separately the standard passing screw (code PSMC1).



Code	Screw	Packaging
01TRMC55N	PSMCL	1 piece

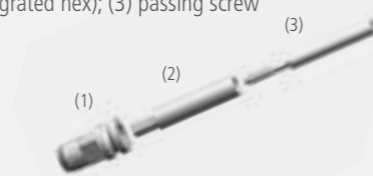
### Direct impression technique (close tray)

To use the transfer with direct impression technique, order separately the standard passing screw (code PSMC1).



## Impression transfer in three sections for Pick-up technique

- Titanium gr. 5
- Maintains the impression precision also in case of disparallelism
- Composed of: (1) transfer body; (2) transfer cylinder (with integrated hex); (3) passing screw



### INSTRUCTIONS FOR USE

- Remove the passing screw with the driver 01TLMR12S / L
- Remove the cylinder with hexagon
- The body of the transfer is free from the hexagon engage

3.6

Platform



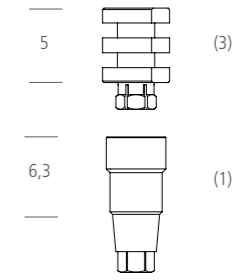
Code	Packaging
01TR3MC	1 piece



## Smart transfer

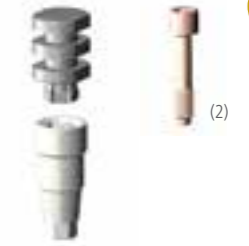
- Titanium gr. 5
- Perfectly replicates the transmucous profile of the soft tissues, thus precisely transferring the implant position
- It is assembled with the mount-transfer screwed onto the implant

- Composed of:
  - (1) Tecapeek connection (code 01TPKMC including passing screw)
  - (2) Passing screw
  - (3) Transfer in gr. 5 titanium (code 01TRS45)



3.6

Platform



The retainive wings exploit their natural spring effect

### Features

The smart transfer is able to perfectly replicate the transmucous profile of the soft tissues once they have been conditioned by the healing screw, thus precisely transferring the implant position. Direct impression technique (close tray) The tecapeek connection (1) is positioned inside the implant - thus reproducing the exact hexagon position - and fixed by the passing screw (2). The titanium transfer (3) is accommodated inside the connection and, thanks to the undercuts, is removed together with the impression. Then, by unscrewing the passing screw (2), the connection (1) is removed, assembled with the analog and repositioned into the transfer (3) inside the impression.

\* Each component is also available as spare part



## Laboratory analog

- Titanium gr. 5

Code	Packaging
01ANMC	1 piece



3.6

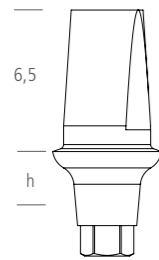
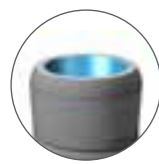
Platform



*Cement retained  
components*

*Cement  
retained  
components*





Rotating



Anti-rotation



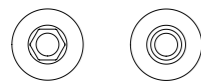
## Standard straight titanium abutment

- Titanium gr. 5
- Different diameters
- Different heights
- Adjustable

NOTE recommended torque max. 25 Ncm

3.6

Platform

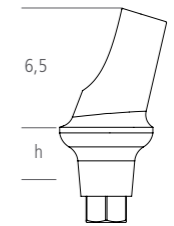
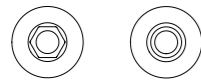


### Transmucous Ø5,0 mm

Code	Type	Height h	Passing screw	Packaging
01ATMC1	Anti-rotation	1 mm	PSMC1	1 piece
01ATMC2	Anti-rotation	2 mm	PSMC2	1 piece
01ATMC3	Anti-rotation	3,5 mm	PSMC3	1 piece
01ATMCR1	Rotating	1 mm	PSMC1	1 piece
01ATMCR2	Rotating	2 mm	PSMC2	1 piece
01ATMCR3	Rotating	3,5 mm	PSMC3	1 piece

### Transmucous Ø6,0 mm

Code	Type	Height h	Passing screw	Packaging
01ATMC160	Anti-rotation	1 mm	PSMC1	1 piece
01ATMC260	Anti-rotation	2 mm	PSMC2	1 piece
01ATMC360	Anti-rotation	3,5 mm	PSMC3	1 piece
01ATMCR160	Rotating	1 mm	PSMC1	1 piece
01ATMCR260	Rotating	2 mm	PSMC2	1 piece
01ATMCR360	Rotating	3,5 mm	PSMC3	1 piece



Rotating



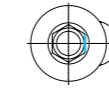
Anti-rotation



## Pre-angled titanium abutment

- Titanium gr. 5
- Different diameters
- Different heights
- Adjustable
- Available with an angle of 17° or 30°

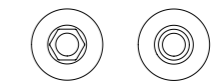
NOTE recommended torque max. 25 Ncm



The flat face of the hexagon is in correspondence of the inclined part of the abutment.

### Transmucous Ø5,0 mm - Angle 17°

Code	Type	Height h	Passing screw	Packaging
01APMC117	Anti-rotation	1 mm	PSMC1	1 piece
01APMC217	Anti-rotation	2 mm	PSMC2	1 piece
01APMC317	Anti-rotation	3,5 mm	PSMC3	1 piece
01APMCR117	Rotating	1 mm	PSMC1	1 piece
01APMCR217	Rotating	2 mm	PSMC2	1 piece
01APMCR317	Rotating	3,5 mm	PSMC3	1 piece



3.6

Platform

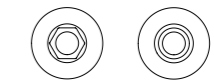
### Transmucous Ø6,0 mm - Angle 17°

Code	Type	Height h	Passing screw	Packaging
01APMC11760	Anti-rotation	1 mm	PSMC1	1 piece
01APMC21760	Anti-rotation	2 mm	PSMC2	1 piece
01APMC31760	Anti-rotation	3,5 mm	PSMC3	1 piece
01APMCR11760	Rotating	1 mm	PSMC1	1 piece
01APMCR21760	Rotating	2 mm	PSMC2	1 piece
01APMCR31760	Rotating	3,5 mm	PSMC3	1 piece



### Transmucous Ø5,0 mm - Angle 30°

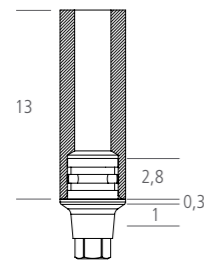
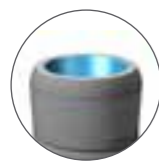
Code	Type	Height h	Passing screw	Packaging
01APMC130	Anti-rotation	1 mm	PSMC1	1 piece
01APMC230	Anti-rotation	2 mm	PSMC2	1 piece
01APMC330	Anti-rotation	3,5 mm	PSMC3	1 piece
01APMCR130	Rotating	1 mm	PSMC1	1 piece
01APMCR230	Rotating	2 mm	PSMC2	1 piece
01APMCR330	Rotating	3,5 mm	PSMC3	1 piece



### Transmucous Ø6,0 mm - Angle 30°

Code	Type	Height h	Passing screw	Packaging
01APMC13060	Anti-rotation	1 mm	PSMC1	1 piece
01APMC23060	Anti-rotation	2 mm	PSMC2	1 piece
01APMC33060	Anti-rotation	3,5 mm	PSMC3	1 piece
01APMCR13060	Rotating	1 mm	PSMC1	1 piece
01APMCR23060	Rotating	2 mm	PSMC2	1 piece
01APMCR33060	Rotating	3,5 mm	PSMC3	1 piece





## Castable gold-cobalt chrome abutment

- Castable abutment
- Available with gold or chrome-cobalt alloy base

3.6

Platform



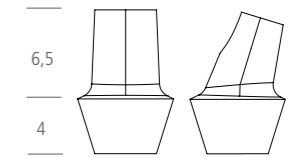
### Transmucous Ø4,5 mm

Code	Material	Passing screw	Packaging
01AGCLMC1	Gold	PSMC1	1 piece
01ACRCLMC1	CO-CR	PSMC1	1 piece



## Zirconia abutment RP.

- High aesthetics
- Adjustable
- Anatomical design

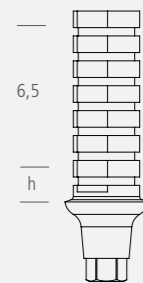


Code	Type	Packaging
01ATZ	Straight	1 piece
01APZ	17° pre-angled	1 piece



3.6

Platform



Rotating



Anti-rotation



## Standard straight tecapeek abutment

- Titanium gr. 5
- Different diameters
- Different heights
- Adjustable

NOTE recommended torque max. 25 Ncm

3.6

Platform



### Transmucous Ø5,0 mm

Code	Height h	Passing screw	Packaging	Packaging
01APKMC1	1 mm	PSMC1	1 piece	1 piece
01APKMC2	2 mm	PSMC2	1 piece	1 piece
01APKMC3	3,5 mm	PSMC3	1 piece	1 piece
01APKMCR1	1 mm	PSMC1	1 piece	1 piece
01APKMCR2	2 mm	PSMC2	1 piece	1 piece
01APKMCR3	3,5 mm	PSMC3	1 piece	1 piece



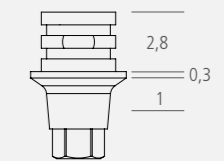
### Transmucous Ø6,0 mm

Code	Height h	Passing screw	Packaging	Packaging
01APKMC160	1 mm	PSMC1	1 piece	1 piece
01APKMC260	2 mm	PSMC2	1 piece	1 piece
01APKMC360	3,5 mm	PSMC3	1 piece	1 piece
01APKMCR160	1 mm	PSMC1	1 piece	1 piece
01APKMCR260	2 mm	PSMC2	1 piece	1 piece
01APKMCR360	3,5 mm	PSMC3	1 piece	1 piece

## Titanium base for zirconia

- Titanium gr. 5
- Solid structure at implant-abutment interface

NOTE recommended torque max. 25 Ncm



### Transmucous Ø4,5 mm

Code	Passing screw	Packaging
01ATBZMC1	PSMC1	1 piece



3.6

Platform

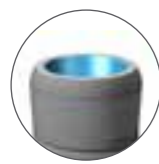


*Screw retained  
components*

*Screw  
retained  
components*





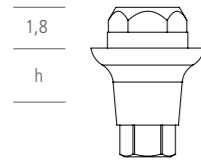


## Antirotation titanium base

### Anti-rotation abutment for screw-retained prosthesis

- Titanium gr. 5
- Anti-rotation abutment for screw retained prosthesis
- To be used with castable abutments
- Passing screw with threaded head

NOTE recommended torque max. 25 Ncm



3.6

Platform



#### Transmucous Ø5,0 mm

Code	Height A	Passing screw	Packaging
01AMC1A	1 mm	PSA1MC	1 piece
01AMC2A	2 mm	PSA2MC	1 piece
01AMC3A	3,5 mm	PSA3MC	1 piece

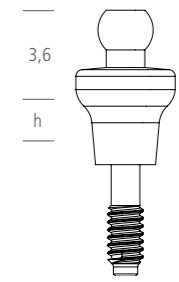


#### Transmucous Ø6,0 mm

Code	Height A	Passing screw	Packaging
01AMC160A	1 mm	PSA1MC	1 piece
01AMC260A	2 mm	PSA2MC	1 piece
01AMC360A	3,5 mm	PSA3MC	1 piece

## Ball abutment

- Titanium gr. 5
- Different heights
- Nitrided ball for high resistance
- For ball overdenture to be used with teflon caps OT-CAP Normo



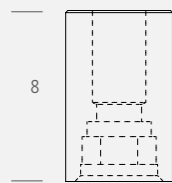
#### Transmucous Ø4,5 mm

Code	Height h	Packaging
01ABMC1	1 mm	1 piece
01ABMC2	2 mm	1 piece
01ABMC3	3,5 mm	1 piece

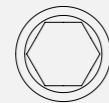


3.6

Platform



Rotating



Anti-rotation



## Castable abutment for antirotation titanium base

### Rotating/anti-rotation castable abutment with screw

- Castable adjustable
- Usable with anti-rotation abutment for screw retained prosthesis

- **Rotating:** ideal for bar retained prosthesis (overdenture)
- **Anti-rotation:** ideal for single crowns

3.6

Platform



#### Transmucous Ø5,0 mm

Code	Type	Passing screw	Packaging
01ACMC50	Anti-rotation	PSAS	1 piece
01ACMCR50	Rotating	PSAS	1 piece



#### Transmucous Ø6,0 mm

Code	Type	Passing screw	Packaging
01ACLRC4A	Rotating	PSAS	1 piece
01ACLA	Anti-rotation	PSAS	1 piece



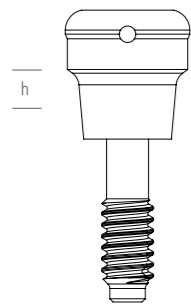


Locator<sup>®</sup>

MC-LOCATOR<sup>®</sup>

# Locator<sup>®</sup>





## Locator<sup>®</sup> abutment

- Titanium gr. 5 TiN coated
- Different heights



3.6

Platform

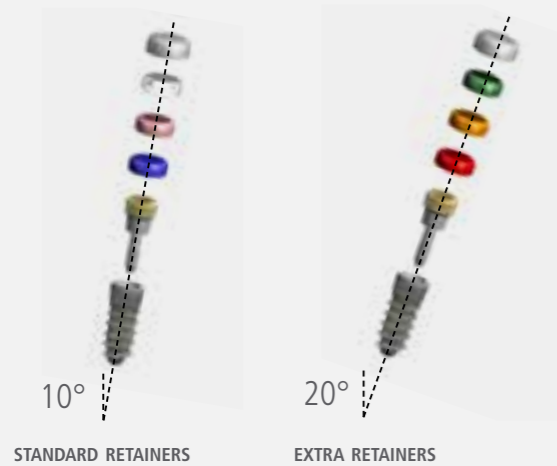


Code	Height h	Packaging
5102601	1 mm	1 piece
5102602	2 mm	1 piece
5102603	3 mm	1 piece
5102604	4 mm	1 piece

## Locator<sup>®</sup> accessories



Code	Description
518393	Locator <sup>®</sup> Core Tool - to insert Locator <sup>®</sup> Abutments and steel caps, tips, retainers, screwing and unscrewing abutment
518397	Locator <sup>®</sup> Core Tool spare part - tip for removing the retainer (new tip only)
518390	Locator <sup>®</sup> Abutment Driver (Gold End) spare part - driver for screwing / unscrewing the abutment
518505	Locator <sup>®</sup> Abutment Impression Coping in aluminum low-retention (4 pcs)
518517	Locator <sup>®</sup> Parallel Post (4 pcs)
518530	Locator <sup>®</sup> Abutment Analog Ø 4 mm in aluminum (4 pcs)
518926LEA	Allen key - short - for screwing Locator <sup>®</sup> Abutment for Leader ratchet
518927LEA	Allen key - long - for screwing Locator <sup>®</sup> Abutment for Leader ratchet
519530	Angle Measurement Guide
518519-2	Consisting of Titanium Metal Cap, White Processing Spacer and 4 standard range plastic retainers with different retention capacity (2 kits)
518540-2	Consisting of Titanium Metal Cap, White Processing Spacer and 4 extended range plastic retainers with different retention capacity (2 kits)
518550	Consisting of Stainless Steel Metal Cap, White Processing Spacer and 4 standard range plastic retainers with different retention capacity (2 kits)
518514	Spacer rings for relining (20 pcs)



## Locator<sup>®</sup> retainers

- Retentive insert**
- Resin replaceable retainers for disparallelism between implants:
    - up to 20° - standard retainers (blue, pink, clear)
    - up to 40° - extra retainers (red, orange, green)
  - Packaging 4 pieces

### IMPRESSION

Code	Color	Retention	Packaging
518515	Black	Low	4 pieces

### STANDARD RETAINER

Code	Color	Retention	Packaging
518529	Blue	680 g	4 pieces
518527	Pink	1.361 g	4 pieces
518524	Clear	2.268 g	4 pieces

### RETAINER EXTRA

Code	Color	Retention	Packaging
518548	Red	226-680 g	4 pieces
518915	Orange	907 g	4 pieces
518547	Green	1.361-1814 g	4 pieces

Locator abutments are manufactured and patented by Zest Anchors. Locator is a trademark of Zest Anchors, Inc.

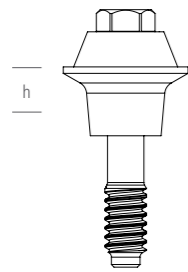
Locator abutments are manufactured and patented by Zest Anchors. Locator is a trademark of Zest Anchors, Inc.



*Leader  
Quick*

# *Leader Leader Quick*





## Leader Quick straight abutment

- Titanium gr. 5
- Different heights



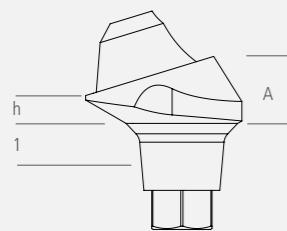
3.6

Platform



### Transmucous Ø4,8 mm

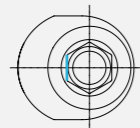
Code	Height h	Packaging
01AATMC1	1 mm	1 piece
01AATMC2	2 mm	1 piece
01AATMC3	3,5 mm	1 piece



## Leader Quick pre-angled abutment

### Pre-angled abutment 17° and 30°

- Titanium gr. 5
- Different heights
- Titanium support to facilitate the positioning
- Screw with torx connection



The flat face of the hexagon is in correspondence of the inclined part of the abutment.



3.6

Platform



### Transmucous Ø4,8 mm

Code	Angle	Height h	Height A	Passing Screw	Packaging
01AAPMC117	17°	1 mm	2,4 mm	01PSQPMC	1 piece
01AAPMC217	17°	2 mm	3,4 mm	01PSQPMC	1 piece



### Transmucous Ø4,8 mm

Code	Angle	Height h	Height A	Passing Screw	Packaging
01AAPMC130	30°	1 mm	3,4 mm	01PSQPMC	1 piece
01AAPMC230	30°	2 mm	4,4 mm	01PSQPMC	1 piece

\*Fixing at 15 Ncm, \*\*Fixing at 35Ncm



## Leader Quick accessories



Code	Description	Passing Screw	Packaging
01TRXP1730	Impression transfer	01PSXQT	1 piece
01ANX1730	Laboratory analog	/	1 piece
01HQP	Abutment cap	01PSXQA	1 piece
01AAQX	Temporary abutment	01PSXQA	1 piece
01AACX	Castable abutment	01PSXQA	1 piece
01TWQ	Connection for ratchet for fixing straight abutment code 01AAT33x / 01AATCx (**)	/	1 piece
01TWQT	Torx connection for ratchet for screw code PSXQA / PSXQP / PSXQT (*)	/	1 piece
01TLCAQTS	Torx connection for contra-angle (short)	/	1 piece
01TLCAQTL	Torx connection for contra-angle (long)	/	1 piece
01PSQPMC	Passing screw for pre-angled abutment	/	1 piece
01PSXQA	Passing screw for all abutments	/	1 piece
01PSXQT	Passing screw for transfer	/	1 piece

\*Fixing at 15 Ncm, \*\*Fixing at 35Ncm



# *Screw Screw list*





*Internal*  
*hex.*





*Implants*

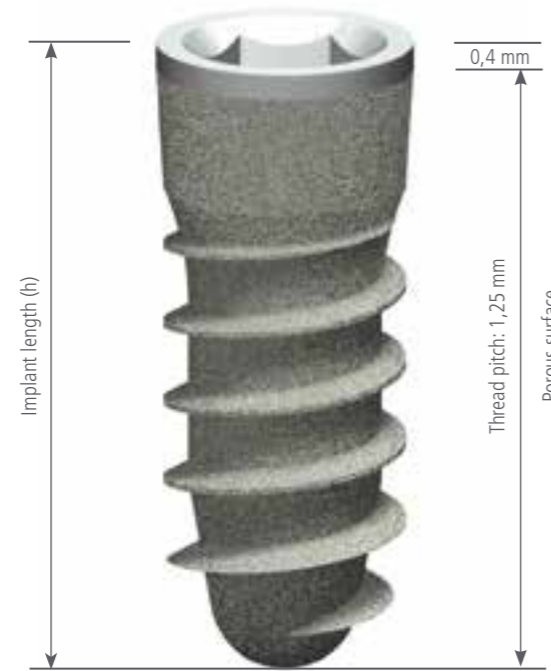
INTERNAL HEX

# *Implants*





# Tixos Cylindrical internal hex.



	Implant Ø3,3 mm	Implant Ø3,75 mm	Implant Ø4,5 mm	Implant Ø5,5 mm
<b>Internal hex. length</b>	2,1 mm	2,1 mm	2,1 mm	2,1 mm
<b>Core Ø</b>	2,6 mm	3,0 mm	3,5 mm	4,5 mm
<b>Apex Ø</b>	1,8 mm	2,3 mm	2,85 mm	4,0 mm
<b>Implant length (h)</b>	<b>Code</b>	<b>Code</b>	<b>Code</b>	<b>Code</b>
<b>8,0 mm</b>	09IT3308	09IT3708	09IT4508	09IT5508
<b>10,0 mm</b>	09IT3310	09IT3710	09IT4510	09IT5510
<b>11,5 mm</b>	09IT3311	09IT3711	09IT4511	09IT5511
<b>13,0 mm</b>	09IT3313	09IT3713	09IT4513	09IT5513
<b>16,0 mm</b>	09IT3316	09IT3716	09IT4516	//

## Packaging

- Packaging in compliance with ISO 11607-1 and 2.
- Sterilization by gamma rays 25 kGy
- Sterility guaranteed for 5 years by waterproof double packaging in airtight sealed glass vial and blister
- The packaging contains: Implant held by a titanium mount- transfer, Surgical screw.



The surgical screw is included in the packaging.  
Code:  
- 01SS (green)  
- 01SS40 (yellow)  
- 01SS45 (blue)  
- 01SS50 (red)



## Features

- Fixture in titanium, Grade 5
- Microfused, porous, isoelastic surface
- Interconnected cavities: 2-200 microns
- Active porous surface thickness: about 250 microns
- All implants are packaged with a colour coded multi-functional tool named Mount-transfer (in titanium, Grade 5).
- High adherence to bone structure
- Great resistance to vertical stresses
- Round apex: minimum trauma during insertion

## Mount-transfer

Tixos implants are equipped with a transport tool that allows the surgeon to transport and position the implant in conditions of absolute sterility. The mount-transfer is screwed on the implant through a passing screw (M 1,8) to be discarded after the insertion of the implant. The upper part of the transfer has an hex ES 2.43. When using a custom tray, the long passing screw code PSTL has to be ordered separately.

The mount-transfer\* is a multi-function mechanical instrument used as:

- instrument to transport the fixture from the glass vial to the implant site
- impression transfer
- temporary abutment
- permanent abutment.

The mount-transfer is colour coded to identify the relative implant platform diameter.



The cover colour identifies the platform diameter.



\*Available with NO MOUNT version. For any further information please contact Leader Italia.



## Surgical protocol

Recommended first preparation

Tools	Round drill	Cortical drill
Code	DS19S	DSP18
Ø(mm)	1,9	1,8
Max (rpm)	1.000	800

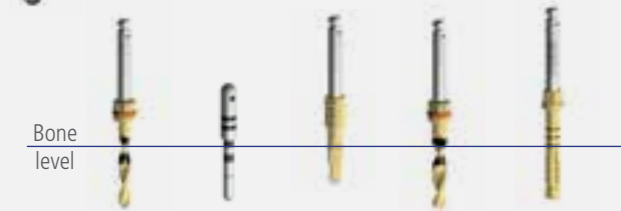


### LEGEND

Recommended drill sequence	Optional tools	D3-D4 Soft bone	D1-D2 Compact bone

### Surgical protocol step by step for implant Ø 3,3 mm

Platform **3.5**



Final drill in soft bone Only in compact bone

Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Bone tap
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	CTCAT33
Ø(mm)	2,0		2,0/2,6	2,6	4,5
Max (rpm)	800		500	500	15-18

Platform **5.0**

### Surgical protocol step by step for implant Ø 4,5 mm



Final drill in soft bone Final drill in compact bone Extended sequence in compact bone

Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Step drill	Twist drill UNICA	Twist drill UNICA	Step drill	Twist drill UNICA	Countersink	Bone tap
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	DSP2632	DSS32S/L	DSS35S/L	DSP3238	DSS38S/L	CST50	CTCAT45S/L
Ø(mm)	2,0		2,0/2,6	2,6	2,6/3,2	3,2	3,5	3,2/3,8	3,8	5,0	4,5
Max (rpm)	800		500	500	15-18	500	500	500	500	400	400

### Surgical protocol step by step for implant Ø 3,75 mm

Platform **4.0**



Final drill in soft bone Final drill in compact bone Extended sequence in compact bone

Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Twist drill UNICA	Step drill	Twist drill UNICA	Countersink	Bone tap
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	DSS30S/L	DSP2632	DSS32S/L	CST40	CTCAT37
Ø(mm)	2,0		2,0/2,6	2,6	3,0	2,6/3,2	3,2	4,0	3,7
Max (rpm)	800		500	500	500	500	500	250	15-18

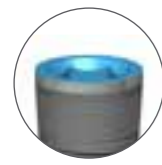
Platform **6.0**

### Surgical protocol step by step for implant Ø 5,5 mm

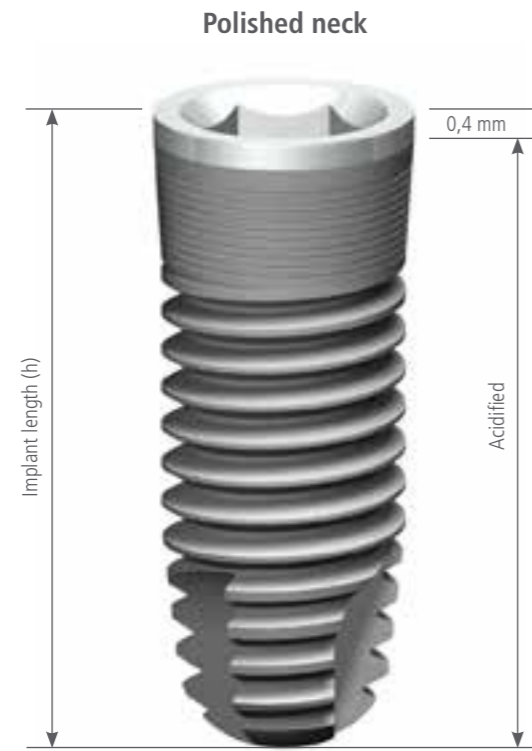


Final drill in soft bone Final drill in compact bone

Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Step drill	Twist drill UNICA	Step drill	Twist drill UNICA	Twist drill UNICA	Twist drill UNICA	Twist drill UNICA	Countersink
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	DSP2632	DSS32S/L	DSP3238	DSS38S/L	DSS42S/L	DSS45S/L	DSS48S/L	CST60
Ø(mm)	2,0		2,0/2,6	2,6	2,6/3,2	3,2	3,2/3,8	3,8	4,2	4,5	4,8	6,0
Max (rpm)	800		500	500	15-18	500	500	500	500	400	400	250



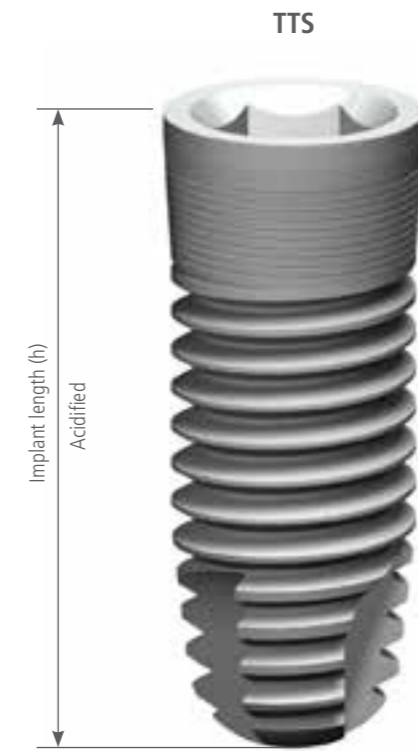
# IMPLUS Cylindrical internal hex.



	Implant Ø3,3 mm	Implant Ø3,75 mm	Implant Ø4,5 mm	Implant Ø5,5 mm
Internal hex. length	2,1 mm	2,1 mm	2,1 mm	2,1 mm
Core Ø	2,6 mm	3,0 mm	3,5 mm	4,5 mm
Apex Ø	1,8 mm	2,1 mm	2,7 mm	3,7 mm
Thread pitch	0,6 mm	0,6 mm	0,75 mm	0,75 mm
Implant length (h)	Code	Code	Code	Code
8,0 mm	0113308	0113708	0114508	0115508
10,0 mm	0113310	0113710	0114510	0115510
11,5 mm	0113311	0113711	0114511	0115511
13,0 mm	0113313	0113713	0114513	0115513
16,0 mm	0113316	0113716	0114516	//



# IMPLUS Cylindrical internal hex.



	Implant Ø3,3 mm	Implant Ø3,75 mm	Implant Ø4,5 mm	Implant Ø5,5 mm
Internal hex. length	2,1 mm	2,1 mm	2,1 mm	2,1 mm
Core Ø	2,6 mm	3,0 mm	3,5 mm	4,5 mm
Apex Ø	1,8 mm	2,1 mm	2,7 mm	3,7 mm
Thread pitch	0,6 mm	0,6 mm	0,75 mm	0,75 mm
Implant length (h)	Code	Code	Code	Code
8,0 mm	0113308TTS	0113708TTS	0114508TTS	0115508TTS
10,0 mm	0113310TTS	0113710TTS	0114510TTS	0115510TTS
11,5 mm	0113311TTS	0113711TTS	0114511TTS	0115511TTS
13,0 mm	0113313TTS	0113713TTS	0114513TTS	0115513TTS
16,0 mm	0113316TTS	0113716TTS	0114516TTS	//



### Packaging

- Packaging in compliance with ISO 11607-1 and 2
- Sterilization by gamma rays 25 kGy
- Sterility guaranteed for 5 years by waterproof double packaging in airtight sealed glass vial and blister
- The packaging contains: Implant held by a titanium mount-transfer Surgical screw.



The surgical screw is included in the packaging.  
Code:  
- 01SS (green)  
- 01SS40 (yellow)  
- 01SS45 (blue)  
- 01SS50 (red)

### Features

- Self-threading fixture in pure titanium, Grade 4
- Micro-rough surface (B.O.A.T. treatment)
- Three anti-rotation apical grooves
- Available in two models:  
- Polished neck h 0.4 mm  
- TTS Totally Treated Surface
- All implants are packaged with a colour coded multi-functional tool named "mount-transfer" (in titanium, Grade 5).
- Ideal for mono implant.

- Very aesthetic
- High anti-rotation value at the abutment/implant interface
- Great resistance to horizontal stresses
- Ideal for central and lateral upper and lower
- Round apex: minimum trauma during insertion
- The insertion at bone level is recommended

Implus implants guarantee an optimum distribution of masticatory load, thus preserving the crestal bone (bone/implant interface - critical area).

\*Available with NO MOUNT version. For any further information please contact Leader Italia.

### Mount-transfer

IMPLUS implant (with polished neck and TTS) are equipped with a transport tool that allows the surgeon to transport and position the implant in conditions of absolute sterility.  
The mount-transfer is screwed on the implant through a passing screw (M1,8) to be discarded after the insertion of the implant.  
The upper part of the transfer has an hex ES 2.43  
When using a custom tray, the long passing screw code PSTL has to be ordered separately.

The mount-transfer is a multi-function mechanical instrument used as:

- instrument to transport the fixture from the glass vial to the implant site;
- impression transfer
- temporary abutment
- permanent abutment.

The mount-transfer\* is colour coded to identify the relative implant platform diameter.



The cover colour identifies the platform diameter.





## Surgical protocol

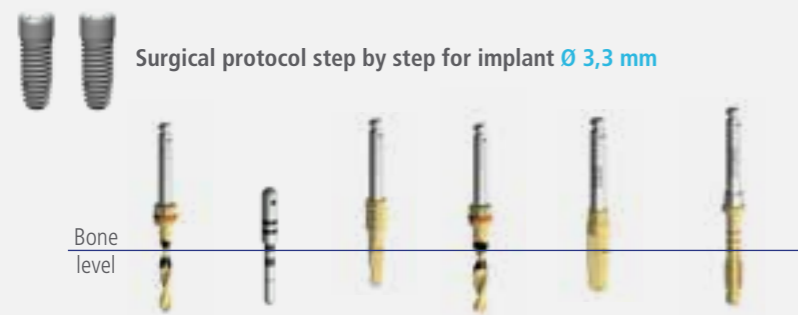
Recommended first preparation

Tools	Round drill	Cortical drill
Code	DS19S	DSP18
Ø(mm)	1,9	1,8
Max (rpm)	1.000	800



### LEGEND

Recommended drill sequence	Optional tools	D3-D4 Soft bone	D1-D2 Compact bone



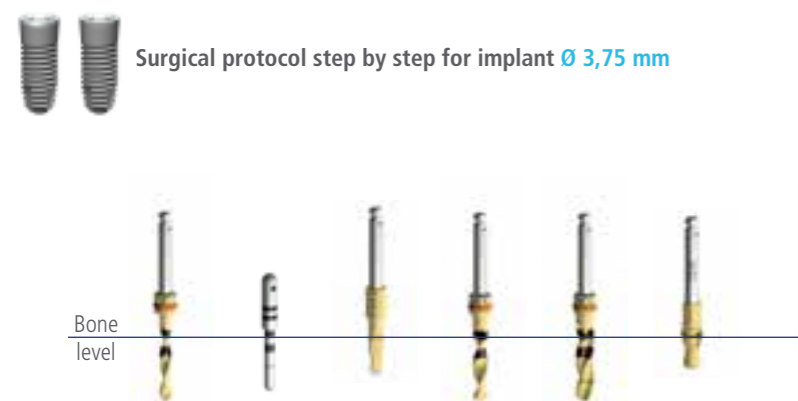
Platform **3.5**

Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Countersink	Bone tap
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	CS35	CT33/CTCA33
Ø(mm)	2,0		2,0/2,6	2,6	3,5	4,5
Max (rpm)	800		500	500	250	15-18



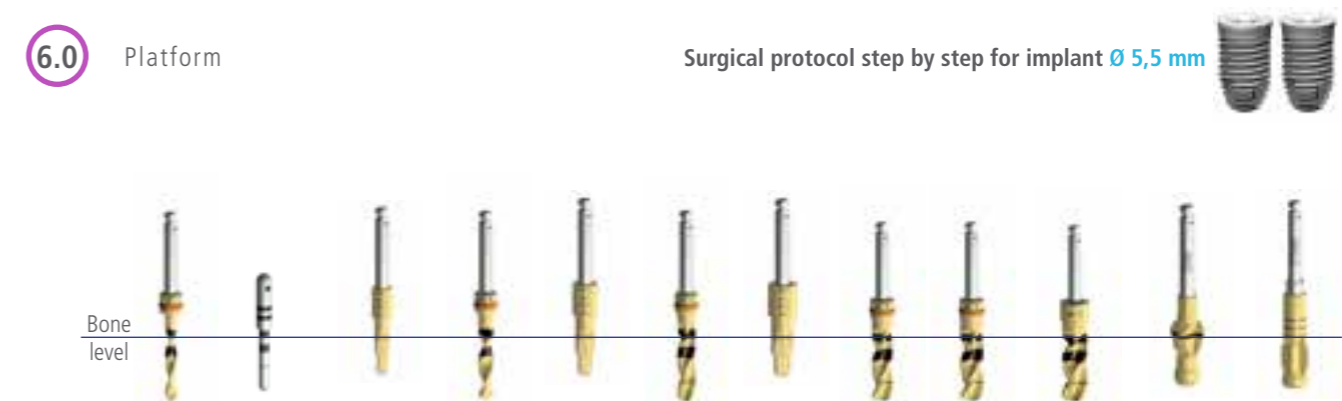
Platform **5.0**

Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Step drill	Twist drill UNICA	Twist drill UNICA	Countersink	Bone tap
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	DSP2632	DSS32S/L	DSS38S/L	CS5	CT45/CTCA45
Ø(mm)	2,0		2,0/2,6	2,6	2,6/3,2	3,2	3,8	5,0	4,5
Max (rpm)	800		500	500	500	500	400	250	15-18



Platform **4.0**

Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Twist drill UNICA	Countersink	Bone tap
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	DSS32S/L	CS40	CT37/CTCA37
Ø(mm)	2,0		2,0/2,6	2,6	3,2	4,0	3,7
Max (rpm)	800		500	500	500	250	15-18



Platform **6.0**

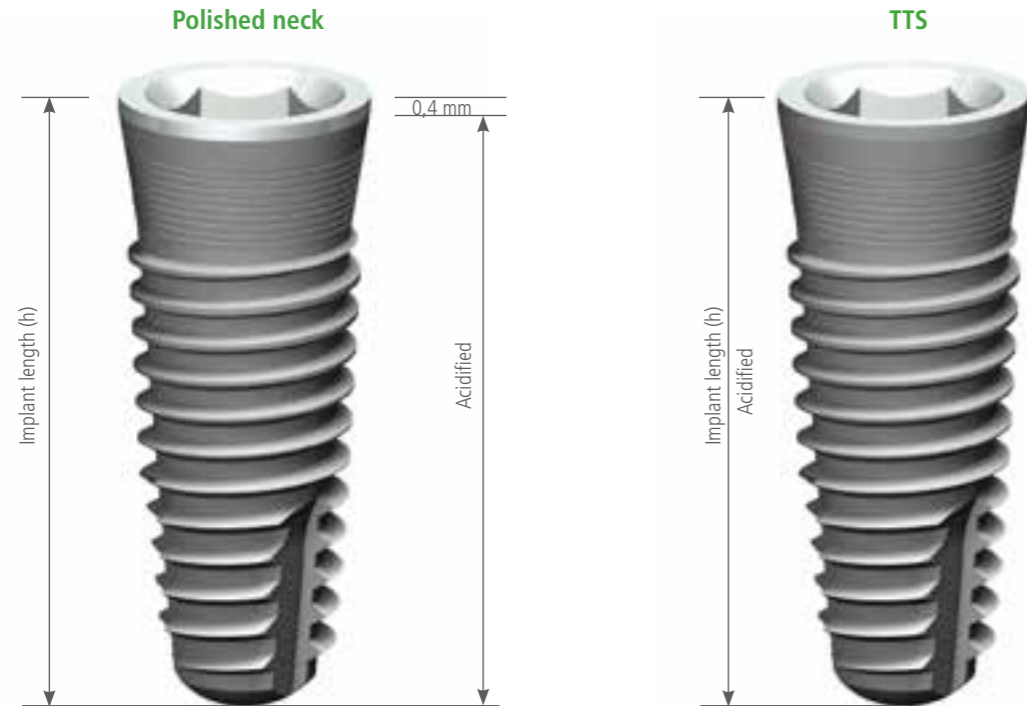
Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Step drill	Twist drill UNICA	Step drill	Twist drill UNICA	Twist drill UNICA	Twist drill UNICA	Countersink	Bone tap
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	DSP2632	DSS32S/L	DSP3238	DSS38S/L	DSS42S/L	DSS48S/L	CS60	CT55/CTCA55
Ø(mm)	2,0		2,0/2,6	2,6	2,6/3,2	3,2	3,2/3,8	3,8	4,2	4,8	6,0	4,5
Max (rpm)	800		500	500	500	500	500	500	500	400	250	15-18



# IMPLUS Tapered

internal hex.

## Narrow thread



**Ideal for:**  
 - surgical sites with D1-D2 bone type and adjacent teeth with converging roots  
 - split crest in lower jaw.



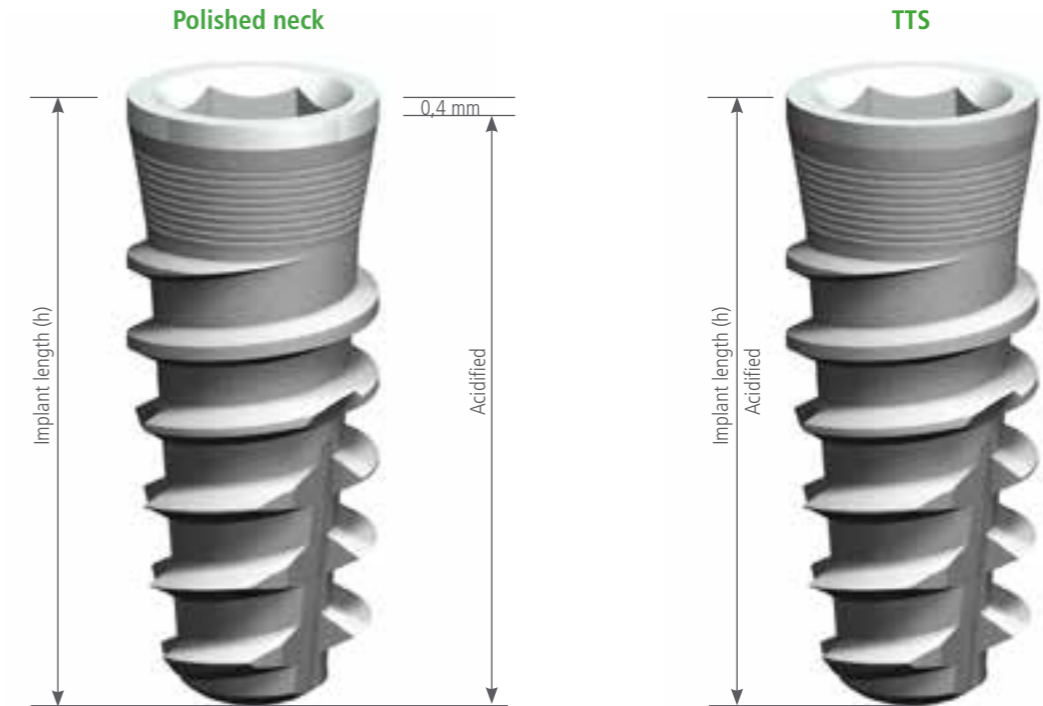
	Implant Ø3,75 mm	Implant Ø4,75 mm	Implant Ø5,75 mm	
<b>Internal hex. length</b>	2,1 mm	2,1 mm	2,1 mm	
<b>Body</b>	Gradually tapered	Gradually tapered	Gradually tapered	
<b>Thread pitch</b>	0,6 mm	0,75 mm	0,75 mm	
<b>Tapered apex</b>	2,25 mm	2,75 mm	3,75 mm	
<b>Implant length (h)</b>	<b>Code</b>	<b>Code</b>	<b>Code</b>	
<b>Polished neck</b>	10,0 mm	01IC3710	01IC4710	01IC5710
	11,5 mm	01IC3711	01IC4711	01IC5711
	13,0 mm	01IC3713	01IC4713	01IC5713
	16,0 mm	01IC3716	01IC4716	//
<b>TTS</b>	10,0 mm	01IC3710TTS	01IC4710TTS	01IC5710TTS
	11,5 mm	01IC3711TTS	01IC4711TTS	01IC5711TTS
	13,0 mm	01IC3713TTS	01IC4713TTS	01IC5713TTS
	16,0 mm	01IC3716TTS	01IC4716TTS	//



# IMPLUS Tapered

internal hex.

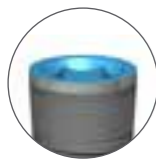
## Wide thread



**Ideal for:**  
 - D3-D4 bone quality  
 - post-extraction sites  
 - sinus lift  
 - split crest in the upper jaw



	Implant Ø4,0 mm	Implant Ø5,0 mm	Implant Ø6,0 mm	
<b>Internal hex. length</b>	2,1 mm	2,1 mm	2,1 mm	
<b>Body</b>	Gradually tapered	Gradually tapered	Gradually tapered	
<b>Thread pitch</b>	1,3 mm	1,5 mm	1,5 mm	
<b>Tapered apex</b>	2,25 mm	2,75 mm	3,75 mm	
<b>Implant length (h)</b>	<b>Code</b>	<b>Code</b>	<b>Code</b>	
<b>Polished neck</b>	8,0 mm	01IC4008	01IC5008	01IC6008
	10,0 mm	01IC4010	01IC5010	01IC6010
	11,5 mm	01IC4011	01IC5011	01IC6011
	13,0 mm	01IC4013	01IC5013	01IC6013
	16,0 mm	01IC4016	01IC5016	//
<b>TTS</b>	8,0 mm	01IC4008TTS	01IC5008TTS	01IC6008TTS
	10,0 mm	01IC4010TTS	01IC5010TTS	01IC6010TTS
	11,5 mm	01IC4011TTS	01IC5011TTS	01IC6011TTS
	13,0 mm	01IC4013TTS	01IC5013TTS	01IC6013TTS
	16,0 mm	01IC4016TTS	01IC5016TTS	//



### Packaging

- Packaging in compliance with ISO 11607-1 and 2
- Sterilization by gamma rays 25 kGy
- Sterility guaranteed for 5 years by waterproof double packaging in airtight sealed glass vial and blister
- The packaging contains: Implant held by a titanium mount-transfer Surgical screw.



The surgical screw is included in the packaging.  
Code:  
- 01SS (green)  
- 01SS40 (yellow)  
- 01SS45 (blue)  
- 01SS50 (red)

### Features

- Self-threading fixture in pure titanium, Grade 4
- Micro-rough surface (B.O.A.T. treatment)
- Three anti-rotation apical grooves
- Available in two models:
  - Polished neck h 0.4 mm
  - TTS Totally Treated Surface
- All implants are packaged with a colour coded multi-functional tool named "mount-transfer" (in titanium, Grade 5).
- Ideal for mono implant.

- Very aesthetic
- High anti-rotation value at the abutment/implant interface
- Great resistance to horizontal stresses
- Ideal for central and lateral upper and lower
- Round apex: minimum trauma during insertion

Implus implants guarantee an optimum distribution of masticatory load, thus preserving the crestal bone (bone/implant interface - critical area).

### Mount-transfer

IMPLUS implants (with polished neck and TTS) are equipped with a transport tool that allows the surgeon to transport and position the implant in conditions of absolute sterility.  
The mount-transfer is screwed on the implant through a passing screw (M1,8) to be discarded after the insertion of the implant.  
The upper part of the transfer has an hex ES 2.43  
When using a custom tray, the long passing screw code PSTL has to be ordered separately.

The mount-transfer is a multi-function mechanical instrument used as:

- instrument to transport the fixture from the glass vial to the implant site;
- impression transfer
- temporary abutment
- permanent abutment.

The mount-transfer is colour coded to identify the relative implant platform diameter.



The cover colour identifies the platform diameter.







## Surgical protocol

Recommended first preparation

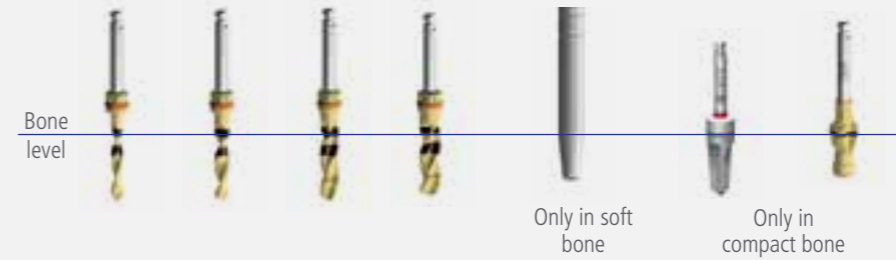
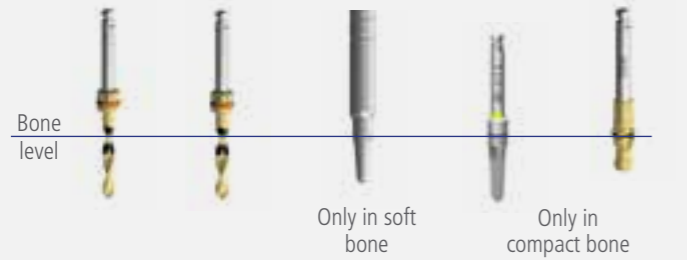
Tools	Round drill	Cortical drill
Code	<b>DS19S</b>	<b>DSP18</b>
Ø(mm)	1,9	1,8
Max (rpm)	1.000	800

### LEGEND

Recommended drill sequence	Optional tools	D3-D4 Soft bone	D1-D2 Compact bone

Surgical protocol step by step for **NARROW Ø 3,75 mm** | **WIDE Ø 4,0 mm** Platform **4.0**

**6.0** Platform Surgical protocol step by step for **NARROW Ø 5,75 mm** | **WIDE Ø 6,0 mm**



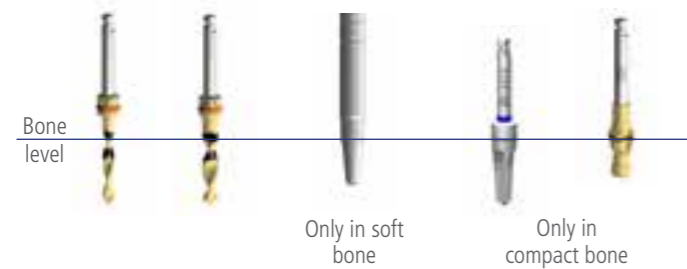
Tools	Pilot drill	Twist drill UNICA	Exp. Osteotome Ø 4,0	Tapered drill	Countersink drill
Code	<b>DSS20S/L</b>	<b>DSS23S/L</b>	Code	<b>DSC4...(*)</b>	<b>CS40</b>
Ø(mm)	2,0	2,3	OE4008	Tapered	4,0
Max (rpm)	800	500	OE4010	200	250
			OE4011		
			OE4013		Depth only
			OE4016		1mm

Tools	Pilot drill	Twist drill UNICA	Twist drill UNICA	Twist drill UNICA	Exp. Osteotome Ø 6,0	Tapered drill	Countersink drill
Code	<b>DSS20S/L</b>	<b>DSS26S/L</b>	<b>DSS32S/L</b>	<b>DSS38S/L</b>	Code	<b>DSC6...(*)</b>	<b>CS60</b>
Ø(mm)	2,0	2,6	3,2	3,8	OE6010	Tapered	6,0
Max (rpm)	800	500	500	500	OE6011	200	250
					OE6013		Depth only
							1mm

(\*) Choose the tapered drill based on the implant length  
Code : 01DSC408/10/11/13/16

(\*) Choose the tapered drill based on the implant length  
Code: 01DSC608/10/11/13

Surgical protocol step by step for **NARROW Ø 4,75 mm** | **WIDE Ø 5,0 mm** Platform **5.0**



Tools	Pilot drill	Twist drill UNICA	Exp. Osteotome Ø 5,0	Tapered drill	Countersink drill
Code	<b>DSS20S/L</b>	<b>DSS28S/L</b>	Code	<b>DSC5...(*)</b>	<b>CS5</b>
Ø(mm)	2,0	2,8	OE5008	Tapered	5,0
Max (rpm)	800	500	OE5010	200	250
			OE5011		
			OE5013		Depth only
			OE5016		1mm

(\*) Choose the tapered drill based on the implant length  
Code : 01DSC508/10/11/13/16



## Indications

### for Cylindrical implant selection

Self threading fixture, suitable for any quadrant, in particular in bone class at D1 – D2 density where the threading of the implant enhances the insertion even in very compact bone.

The fixture has a larger platform than the implant body, that guarantees a more uniform profile and a shape very similar to the natural geometry of the tooth; at the same time, reducing the penetration of the epithelial tissue after the surgical treatment.

In some surgical procedures (for example, the upper jaw sinus mini-lift)

the enlarged platform acts as a stop on the cortical, preventing the sinking of the fixture in the sinus. Moreover, the enlarged neck distributes better the masticatory loads along the entire fixture, increasing its resistance and, above all, greatly reducing the loads on the upper part of the fixture (polished neck).

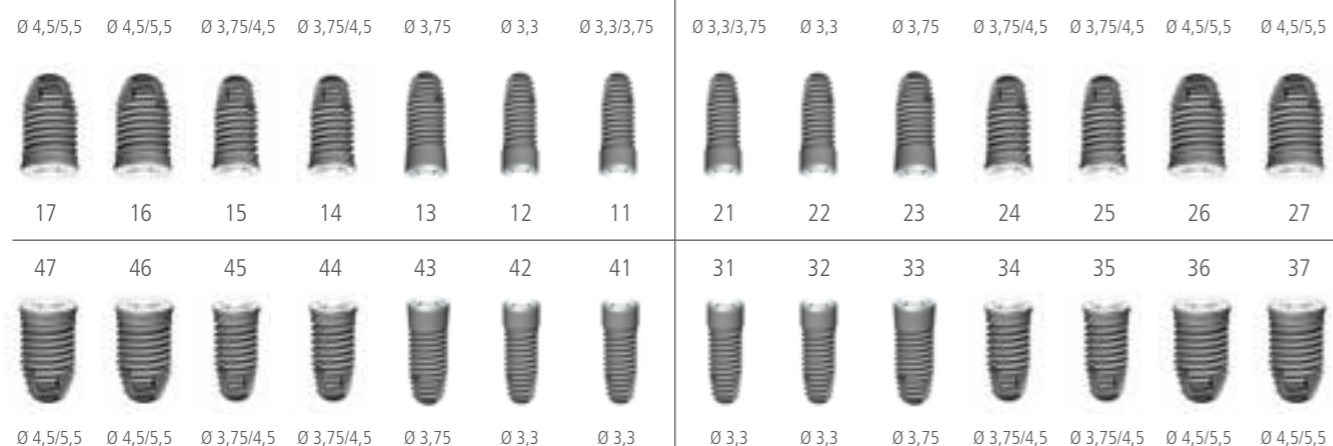
On the basis of the dimensions, function and position of the dental element to be substituted, the following diameters are recommended:

**Ø 3,3 Neck 3,5** Lower incisors - Upper central incisors - Upper lateral

**Ø 3,75 Neck 4** Upper central incisors - Upper / Lower canines - Upper / Lower premolars

**Ø 4,5 Neck 5** Upper / Lower premolars - Upper / Lower molars

**Ø 5,5 Neck 6** Upper / Lower molars



The technical suggestions reported in this catalogue can under no circumstances substitute the clinical evaluations and therapeutic indications that are of exclusive competence of the Dentist.



## Indications

### for Tapered implant selection

#### Main indications

Tapered Implus are suitable for the most anatomical situations:

- Root convergence of adjacent teeth
- Labial concavities and lingual undercuts in the anterior area of the upper jaw
- Post-extraction sockets

The tapered Implus implants with wide thread are particularly indicated in bone class D3 – D4 where the wide thread pitch enables an optimum insertion and the best primary stability.

The tapered Implus implants with narrow thread are mainly indicated in bone class D1-D2. The Implus system offers the choice between the one step surgical procedure and the two steps one. On the basis of the dimensions, function and position of the dental element to be substituted, the following diameters are recommended:

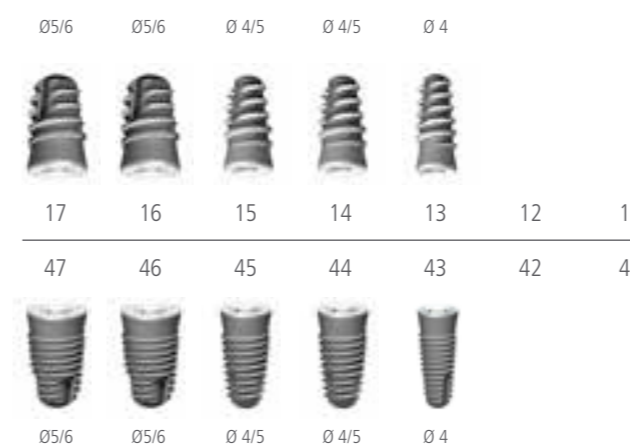
**Ø 4 Apex 2,3** Upper / Lower canines - Upper / Lower premolars

**Ø 5 Apex 2,8** Upper / Lower premolars - Upper / Lower molars

**Ø 6 Apex 3,8** Upper / Lower molars

#### Osteotomes

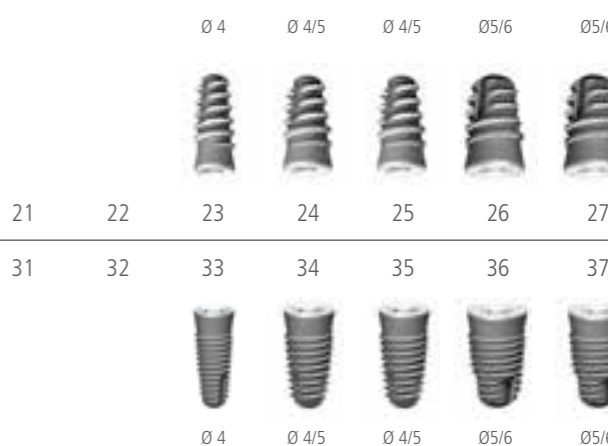
A complete set of hand calibrated osteotomes is available to facilitate the insertion of the implants with alveolar shape in soft maxillary bone. The osteotomes compress the bone laterally increasing the interface bone-implant.



#### Advantages of the Tapered Implus implants

- Alveolar design
- Faster insertion
- Optimum primary stability
- Decrease of the non-axial masticatory load
- Better masticatory load distribution
- Better aesthetic results

Tapered implants with wide thread are recommended for insertion into the upper jaw while those with narrow thread are recommended for the lower jaw.

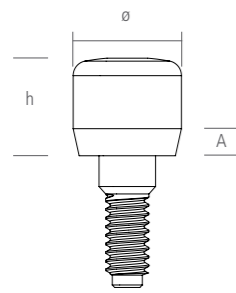
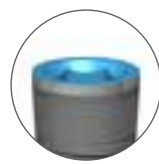




*Healing  
screws*



# Healing screws



## Titanium healing screw

- Titanium gr. 5
- Different heights
- One piece

3.5

Platform



### Transmucous Ø4,5 mm

Code	Height h	Height A	Packaging
01HC332	2,0 mm	1,1 mm	1 piece
01HC333	3,0 mm	1,1 mm	1 piece
01HC334	4,0 mm	1,1 mm	1 piece
01HC335	5,0 mm	1,1 mm	1 piece
01HC336	6,0 mm	1,1 mm	1 piece
01HC337	7,0 mm	1,1 mm	1 piece

4.0

Platform



### Transmucous Ø4,5 mm

Code	Height h	Height A	Packaging
01HCC42	2,0 mm	1,1 mm	1 piece
01HCC43	3,0 mm	1,1 mm	1 piece
01HCC44	4,0 mm	1,1 mm	1 piece
01HCC45	5,0 mm	1,1 mm	1 piece
01HCC46	6,0 mm	1,1 mm	1 piece
01HCC47	7,0 mm	1,1 mm	1 piece

### Transmucous Ø6,0 mm

Code	Height h	Height A	Packaging
01HCC63	3,0 mm	1,5 mm	1 piece
01HCC64	4,0 mm	1,5 mm	1 piece
01HCC65	5,0 mm	1,5 mm	1 piece
01HCC66	6,0 mm	1,5 mm	1 piece

5.0

Platform



### Transmucous Ø5,0 mm

Code	Height h	Height A	Packaging
01HC502	2,0 mm	1,2 mm	1 piece
01HC504	4,0 mm	1,2 mm	1 piece
01HC506	6,0 mm	1,2 mm	1 piece

6.0

Platform



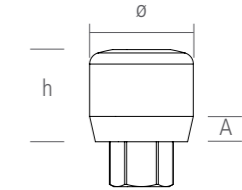
### Transmucous Ø6,0 mm

Code	Height h	Height A	Packaging
01HC602	2,0 mm	1,2 mm	1 piece
01HC604	4,0 mm	1,2 mm	1 piece
01HC606	6,0 mm	1,2 mm	1 piece



## Tecapeek healing screw

- Aesthetic
- Biocompatible
- Inhibition to bacterial attack
- Chemical inertia
- Autoclavable
- Different heights
- With passing screw



3.5

Platform



### Transmucous Ø4,5 mm

Code	Height h	Height A	Passing Screw	Packaging
01HPKC333	3,0 mm	1,1 mm	PSS	1 piece
01HPKC334	4,0 mm	1,1 mm	PSS	1 piece
01HPKC335	5,0 mm	1,1 mm	PSK5	1 piece
01HPKC336	6,0 mm	1,1 mm	PSK6	1 piece
01HPKC337	7,0 mm	1,1 mm	PSK7	1 piece

### Transmucous Ø4,5 mm

Code	Height h	Height A	Passing Screw	Packaging
01HPKCC43	3,0 mm	1,1 mm	PSS	1 piece
01HPKCC44	4,0 mm	1,1 mm	PSS	1 piece
01HPKCC45	5,0 mm	1,1 mm	PSK5	1 piece
01HPKCC46	6,0 mm	1,1 mm	PSK6	1 piece
01HPKCC47	7,0 mm	1,1 mm	PSK7	1 piece

### Transmucous Ø6,0 mm

Code	Height h	Height A	Passing Screw	Packaging
01HPKCC63	3,0 mm	1,1 mm	PSS	1 piece
01HPKCC64	4,0 mm	1,5 mm	PSS	1 piece
01HPKCC65	5,0 mm	1,5 mm	PSK5	1 piece
01HPKCC66	6,0 mm	1,5 mm	PSK6	1 piece

### Transmucous Ø5,0 mm

Code	Height h	Height A	Passing Screw	Packaging
01HPKC502	2,0 mm	1,2 mm	PSS	1 piece
01HPKC504	4,0 mm	1,2 mm	PSS	1 piece
01HPKC506	6,0 mm	1,2 mm	PSK6	1 piece

### Transmucous Ø6,0 mm

Code	Height h	Height A	Passing Screw	Packaging
01HPKC602	2,0 mm	1,2 mm	PSS	1 piece
01HPKC604	4,0 mm	1,2 mm	PSS	1 piece
01HPKC606	6,0 mm	1,2 mm	PSK6	1 piece

6.0

Platform





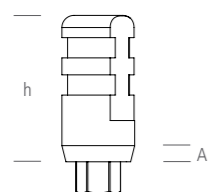
*Impression  
components*

# *Impression components*





## Impression transfer



- Titanium gr. 5
- Packed with long passing screw

3.5

Platform



### Transmucous Ø4,5 mm

Code	Height h	Height A	Screw	Packaging
01TR33	9,0 mm	1,0 mm	PSTL	1 piece

4.0

Platform



### Transmucous Ø4,5 mm

Code	Height h	Height A	Screw	Packaging
01TRC4	9,0 mm	1,0 mm	PSTL	1 piece

5.0

Platform



### Transmucous Ø5,8 mm

Code	Height h	Height A	Screw	Packaging
01TR50	9,0 mm	1,2 mm	PSTL	1 piece

6.0

Platform

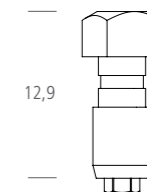
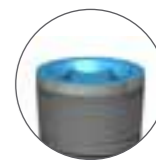


### Transmucous Ø6,3 mm

Code	Height h	Height A	Screw	Packaging
01TR60	9,0 mm	1,2 mm	PSTL	1 piece



## Impression transfer for pick-up



- Titanium gr. 5
- Long passing screw code PSTTL\*
- To be used with individual open tray (pick-up technique)

\* Also available as spare part the extra long screw code PSTTLL

### Transmucous Ø4,5 mm

Code	Screw	Packaging
01TRP33	PSTTL	1 piece

3.5

Platform



### Transmucous Ø4,5 mm

Code	Screw	Packaging
01TRCP4	PSTTL	1 piece

4.0

Platform



### Transmucous Ø5,8 mm

Code	Screw	Packaging
01TRP50	PSTTL	1 piece

5.0

Platform



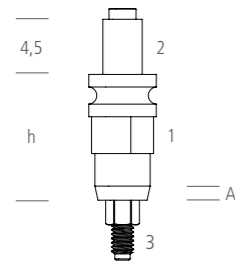
### Transmucous Ø6,3 mm

Code	Screw	Packaging
01TRP60	PSTTL	1 piece

6.0

Platform





## Impression transfer in three section for pick-up technique

- Titanium gr. 5
- Maintains the impression precision also in case of disparallelism
- Composed of: (1) transfer body; (2) transfer cylinder; (3) passing screw

3.5

Platform



Transmucous Ø4,5 mm

Code	Height h	Height A	Packaging
01TR333	10,3 mm	1,3 mm	1 piece

4.0

Platform



Transmucous Ø4,5 mm

Code	Height h	Height A	Packaging
01TR403	10,3 mm	1,15 mm	1 piece

5.0

Platform



Transmucous Ø5,8 mm

Code	Height h	Height A	Packaging
01TR503	10,3 mm	1,15 mm	1 piece

6.0

Platform



Transmucous Ø6,3 mm

Code	Height h	Height A	Packaging
01TR603	10,3 mm	1,15 mm	1 piece

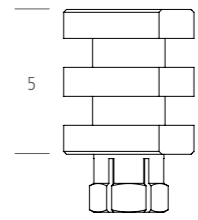
### INDICATION FOR USE :

- Remove the passing screw with the driver 01TLMR12S / L
- Remove the cylinder with hexagon
- The body of the transfer is free from the hexagon engage.



## Smart transfer

- Titanium gr. 5
- Perfectly replicates the transmucous profile of the soft tissues, thus precisely transferring the implant position
- It is assembled with the mount-transfer screwed onto the implant



The retentive wings exploit their natural spring effect

Transmucous Ø4,5 mm

Code	Packaging
01TRS45	1 piece



### Characteristics

The smart transfer is used to simplify and optimize the standard procedure of traditional impression called "close tray". Thanks to its design, it remain very firm into the impression and it allow to take a very precise impression. The smart transfer is assembled with mount/transfer which is screwed to the implant. Insert the male hexagon of smart transfer in female hexagon of implant, than continue with the traditional technique.



## Laboratory analog

- Titanium gr. 5

Code	Packaging
01AN33	1 piece
01AN33/3	3 pieces



3.5

Platform

Code	Packaging
01AN45	1 piece
01AN45/3	3 pieces



5.0

Platform

Code	Packaging
01ANC4	1 piece
01ANC4/3	3 pieces



4.0

Platform

Code	Packaging
01AN55	1 piece
01AN55/3	3 pieces



6.0

Platform

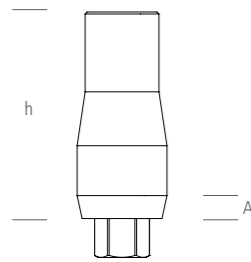
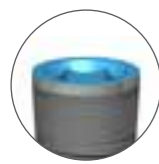


*Cement retained  
components*



*Cement  
retained  
components*





### Standard straight titanium abutment

- Titanium gr. 5
- Different diameters
- Adjustable

3.5

Platform



#### Transmucous Ø4,5 mm

Code	Passing screw closure	Height h	Height A	Passing screw	Packaging
01AT133	Standard	10,3 mm	1,15 mm	PSTS	1 piece
01AT1F33	Frictioning*	10,3 mm	1,15 mm	PSF	1 piece

4.0

Platform



#### Transmucous Ø4,5 mm

Code	Passing screw closure	Height h	Height A	Passing screw	Packaging
01AT1C4	Standard	10,0 mm	1,15 mm	PSS	1 piece
01AT1CF4	Frictioning*	10,0 mm	1,15 mm	PSF	1 piece



#### Transmucous Ø6,0 mm

Code	Passing screw closure	Height h	Height A	Passing screw	Packaging
01AT1C6	Standard	10,0 mm	1,5 mm	PSS	1 piece

5.0

Platform



#### Transmucous Ø5,8 mm

Code	Passing screw closure	Height h	Height A	Passing screw	Packaging
01AT15	Standard	10,4 mm	1,5 mm	PSTS	1 piece
01AT1F5	Frictioning*	10,4 mm	1,5 mm	PSF	1 piece

6.0

Platform



#### Transmucous Ø6,3 mm

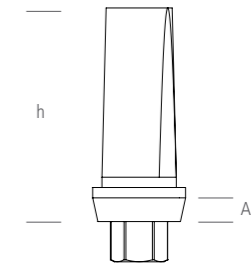
Code	Passing screw closure	Height h	Height A	Passing screw	Packaging
01AT16055	Standard	8,9 mm	1,5 mm	PSS	1 piece
01AT160F55	Frictioning*	8,9 mm	1,5 mm	PSF	1 piece

\*Each frictioning abutment is equipped with PSF tapered passing screw. WARNING: insert the abutment taking care that the hex connection is perfectly accommodated in its site. Then fix it screwing the tapered screw in. Use driver TLM16S and connections TW16L (manual) / TLCA16L (contra-angle).



### Shouldered straight titanium abutment

- Titanium gr. 5
- Different diameters
- Adjustable



3.5

Platform



#### Transmucous Ø4,5 mm

Code	Passing screw closure	Height h	Height A	Passing screw	Packaging
01AS33	Standard	10,3 mm	1,65 mm	PSTS	1 piece
01ASF33	Frictioning*	10,3 mm	1,65 mm	PSF	1 piece

#### Transmucous Ø4,5 mm

Code	Passing screw closure	Height h	Height A	Passing screw	Packaging
01ASC4	Standard	10,3 mm	1,65 mm	PSS	1 piece
01ASCF4	Frictioning*	10,3 mm	1,65 mm	PSF	1 piece



4.0

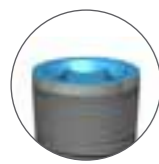
Platform

#### Transmucous Ø6,0 mm

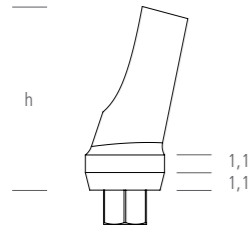
Code	Passing screw closure	Height h	Height A	Passing screw	Packaging
01ASC6	Standard	10,3 mm	1,55 mm	PSS	1 piece



\*Each frictioning abutment is equipped with PSF tapered passing screw. WARNING: insert the abutment taking care that the hex connection is perfectly accommodated in its site. Then fix it screwing the tapered screw in. Use driver TLM16S and connections TW16L (manual) / TLCA16L (contra-angle).



## Pre-angled titanium abutment



- Titanium gr. 5
- Adjustable
- Different diameters
- Available with an angle of 15° or 25°

The flat face of the hexagon is in correspondence of the inclined part of the abutment.

3.5

Platform



### Transmucous Ø4,5 mm

Code	Passing screw closure	Angle	Height h	Passing screw	Packaging
01AP1533	Standard	15°	12,20 mm	PSTXS	1 piece
01AP15F33	Frictioning*	15°	12,20 mm	PSF	1 piece
01AP2533	Standard	25°	9,85 mm	PSTXS	1 piece
01AP25F33	Frictioning*	25°	9,85 mm	PSF	1 piece

4.0

Platform



### Transmucous Ø4,5 mm

Code	Passing screw closure	Angle	Height h	Passing screw	Packaging
01APC1540	Standard	15°	10,50 mm	PSS	1 piece
01APC15F40	Frictioning*	15°	10,50 mm	PSF	1 piece
01APC2540	Standard	25°	9,65 mm	PSS	1 piece
01APC25F40	Frictioning*	25°	9,65 mm	PSF	1 piece

### Transmucous Ø6,0 mm

Code	Passing screw closure	Angle	Height h	Passing screw	Packaging
01APC601540	Standard	15°	10,50 mm	PSS	1 piece
01APC602540	Standard	25°	9,65 mm	PSS	1 piece

5.0

Platform

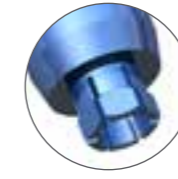


### Transmucous Ø6,0 mm

Code	Passing screw closure	Angle	Height h	Passing screw	Packaging
01AP1560	Standard	15°	10,50 mm	PSTXS	1 piece

## Titanium trial kit

- Includes 6 titanium trial abutments: 2x straight, 2x pre-angled 25°, 2x pre-angled 15°
- The trial abutments are inserted on the implant or on the analog to select the ideal support
- The trial abutments only are autoclavable at 121°C



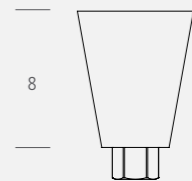
The flat face of the hexagon is in correspondence of the inclined part of the abutment.



Code  
01K61

## Adjustable titanium abutment

- Titanium gr. 5



Code	Passing screw closure	Maximum Ø	Passing screw	Packaging
01ATIM4	Standard	6,9	PSS	1 piece

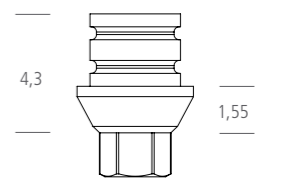


4.0

Platform

## Overcasting titanium coping

- Titanium gr. 5
- Overcastable
- Ideal alloy gold or extra hard noble Title 500
- Max. pre-heating temperature 800 °C



Code	Passing screw closure	Passing screw	Packaging	Packaging
01ATIB33	Standard	PSS	1 piece	1 piece



3.5

Platform

### INSTRUCTIONS FOR USE

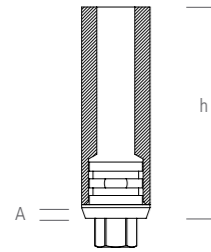
Before proceeding with the modelling, sandblast or roughen the grooved surface with a drill. Prepare for the casting in the usual way; there are no contra-indications to the use of phosphate investments, even the rapid ones. Perform the preheating making sure not to exceed 800°C; the permanence time in the oven must not be too long max. 30-40 minutes. Use yellow gold alloy or gold extra hard alloy, title 500, eliminate the coating in excess in the usual way, making sure not to use acids that can corrode titanium (such as hydrofluoric acid) and eliminate the remaining oxide traces with a light sandblasting with glass balls (for example microblast etc.). Important: The base is not particularly suitable for ceramic overbaking. However, if you proceed with the ceramic coating, use ceramic suitable for titanium and, after each baking, remove the formed oxide by pickling or light sandblasting.

\*Each frictioning abutment is equipped with PSF tapered passing screw. WARNING: insert the abutment taking care that the hex connection is perfectly accommodated in its site. Then fix it screwing the tapered screw in. Use driver TLM16S and connections TW16L (manual) / TLCA16L (contra-angle).

\*Each frictioning abutment is equipped with PSF tapered passing screw. WARNING: insert the abutment taking care that the hex connection is perfectly accommodated in its site. Then fix it screwing the tapered screw in. Use driver TLM16S and connections TW16L (manual) / TLCA16L (contra-angle).



## Castable gold / cobalt-chrome abutment



- Castable abutment
- Extractor code PSES (not included)
- Available with gold or chrome-cobalt alloy base

3.5

Platform



### Transmucous Ø4,5 mm

Code	Passing screw closure	Material	Height h	Height A	Passing screw	Packaging
01AGCL33	Standard	Gold	13,75	0,75	PSS	1 piece
01AGCLF33	Frictioning*	Gold	13,75	0,75	PSS	1 piece
01ACRCL33	Standard	CO-CR	13,75	0,75	PSS	1 piece

4.0

Platform



### Transmucous Ø4,5 mm

Code	Passing screw closure	Material	Height h	Height A	Passing screw	Packaging
01APSG4	Standard	Gold	13	0,9	PSS	1 piece
01APSGF4	Frictioning*	Gold	13	0,9	PSS	1 piece
01APSCR4	Standard	CO-CR	13	0,9	PSS	1 piece

5.0

Platform



### Transmucous Ø5,0 mm

Code	Passing screw closure	Material	Height h	Height A	Passing screw	Packaging
01AGCL45	Standard	Gold	13	0,5	PSS	1 piece
01AGCLF45	Frictioning*	Gold	13	0,5	PSS	1 piece
01ACRCL45	Standard	CO-CR	13	0,5	PSS	1 piece

6.0

Platform



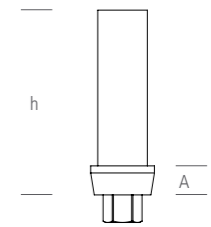
### Transmucous Ø6,0 mm

Code	Passing screw closure	Material	Height h	Height A	Passing screw	Packaging
01AGCL55	Standard	Gold	13	0,5	PSS	1 piece
01AGCLF55	Frictioning*	Gold	13	0,5	PSS	1 piece
01ACRCL55	Standard	CO-CR	13	0,5	PSS	1 piece

Gold melting temperature : 1350°C ± 1460°C  
Cobalt-Chrome melting temperature : 1390°C ± 50°C



## Castable abutment



- Abutment for cemented prothesis or for single screw retained crowns
- Different diameters
- Adjustable

3.5

Platform



### Transmucous Ø4,5 mm

Code	Passing screw closure	Height h	Height A	Passing screw	Packaging
01ACL33	Standard	13	1,9	PSS	1 piece
01ACL33/3	Standard	13	1,9	PSS	3 pieces
01ACL33/10	Standard	13	1,9	PSS	10 pieces
01ACLF33	Frictioning*	13	1,9	PSF	1 piece

4.0

Platform



### Transmucous Ø4,5 mm

Code	Passing screw closure	Height h	Height A	Passing screw	Packaging
01ACCL4	Standard	13	2,05	PSS	1 piece
01ACCL4/3	Standard	13	2,05	PSS	3 pieces
01ACCL4/10	Standard	13	2,05	PSS	10 pieces
01ACCLF4	Frictioning*	13	2,05	PSF	1 piece
01ACCLF4/10	Frictioning*	13	2,05	PSF	10 pieces

### Transmucous Ø6,0 mm

Code	Passing screw closure	Height h	Height A	Passing screw	Packaging
01ACCL6	Standard	13	2,05	PSS	1 piece

5.0

Platform



### Transmucous Ø5,8 mm

Code	Passing screw closure	Height h	Height A	Passing screw	Packaging
01ACL50	Standard	13	1,95	PSS	1 piece
01ACL50/10	Standard	13	1,95	PSS	10 pieces
01ACLF50	Frictioning*	13	1,95	PSF	1 piece
01ACLF50/10	Frictioning*	13	1,95	PSF	10 pieces

6.0

Platform



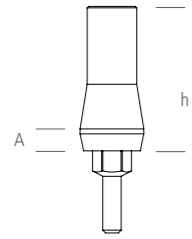
### Transmucous Ø6,3 mm

Code	Passing screw closure	Height h	Height A	Passing screw	Packaging
01ACL60	Standard	13	2	PSS	1 piece
01ACLF60	Frictioning*	13	2	PSF	1 piece

\*Each frictioning abutment is equipped with PSF tapered passing screw. WARNING: insert the abutment taking care that the hex connection is perfectly accommodated in its site. Then fix it screwing the tapered screw in. Use driver TLM16S and connections TW16L (manual) / TLCA16L (contra-angle).



## Castable abutment for cementing



- Adjustable
- Ideal gold alloy
- Title 500 extra hard noble

3.5

Platform



### Transmucous Ø4,5 mm

Code	Height h	Height A	Packaging
01ACLC33	10	1,15	1 piece

4.0

Platform



### Transmucous Ø4,5 mm

Code	Height h	Height A	Packaging
01ACCLC4	10	1,15	1 piece

5.0

Platform



### Transmucous Ø5,5 mm

Code	Height h	Height A	Packaging
01ACLC5	10,2	1,55	1 piece

6.0

Platform



### Transmucous Ø6,5 mm

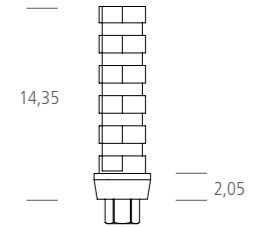
Code	Height h	Height A	Packaging
01ACLC6	10,2	1,55	1 piece



## Titanium abutment for immediate load



- Abutment for cemented prosthesis or for single screw retained crowns
- Titanium gr. 5
- Different diameters
- Adjustable
- POM-C cannula



### Transmucous Ø4,5 mm

Code	Passing screw closure	Passing screw	Packaging
01ACI4	Standard	PSS	1 piece

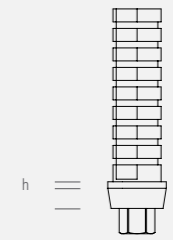


4.0

Platform

## Tecapeek temporary abutment

- Biocompatibility
- For immediate temporary restorations
- Milled surface to facilitate resin adhesion



### Transmucous Ø4,5 mm

Code	Passing screw closure	Height A	Passing screw	Packaging
01APK33	Standard	0,5	PSS	1 piece
01APKA33	Standard	2,5	PSS	1 piece



3.5

Platform

### Transmucous Ø4,5 mm

Code	Passing screw closure	Height A	Passing screw	Packaging
01APK4	Standard	0,5	PSS	1 piece
01APKA4	Standard	2,5	PSS	1 piece



4.0

Platform

### Transmucous Ø5,8 mm

Code	Passing screw closure	Height A	Passing screw	Packaging
01APK5	Standard	0,5	PSS	1 piece
01APKA5	Standard	2,5	PSS	1 piece

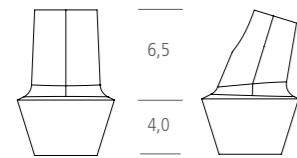


5.0

Platform



## Zirconia abutment RP



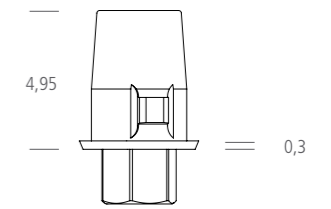
- Adjustable
- Ideal gold alloy
- Title 500 extra hard noble



Code	Type	Packaging
01ATZ	Straight	1 piece
01APZ	17° pre-angled	1 piece



## TiBase for Cerec\* CAD/CAM system



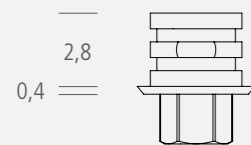
- Titanium gr. 5
- For the realization of custom abutment and prosthesis on implant which are project with CEREC\* system by Sirona
- Scanbody to buy separately based on the intraoral scanner possessed
- \*CEREC is a Sirona system. It recommends the use of the Sirona protocol

Transmucous Ø4,5 mm			
Code	Passing screw closure	Passing screw	Packaging
01BC33	Standard	PSS	1 piece



3.5  
Platform

## Titanium base for zirconia



- Golden titanium gr. 5
- Solid structure at implant-abutment interface
- Passing screw colour coded

3.5

Platform



Transmucous Ø4,5 mm			
Code	Passing screw closure	Passing screw	Packaging
01ATIBZ33	Standard	PSSV	1 piece

4.0

Platform



Transmucous Ø4,5 mm			
Code	Passing screw closure	Passing screw	Packaging
01ATIBZC4	Standard	PSSG	1 piece

### Transmucous Ø4,5 mm

Code	Passing screw closure	Passing screw	Packaging
01BC4	Standard	PSS	1 piece



4.0  
Platform



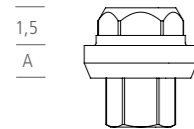
*Screw retained  
components*

*Screw  
retained  
components*





## Anti-rotation abutment for screw-retained



- Titanium gr. 5
- Anti-rotation abutment for screw retained prosthesis
- To be used with castable abutments
- Extractor code PSES
- Passing screw with threaded head

3.5

Platform



### Transmucous Ø4,5 mm

Code	Passing screw closure	Height A	Passing screw	Packaging
01AATI331A	Standard	1 mm	PS1	1 piece
01AATI332A	Standard	2 mm	PS2	1 piece

4.0

Platform



### Transmucous Ø4,5 mm

Code	Passing screw closure	Height A	Passing screw	Packaging
01AC1A	Standard	1 mm	PS1	1 piece
01AC2A	Standard	2 mm	PS2	1 piece

5.0

Platform



### Transmucous Ø5,5 mm

Code	Passing screw closure	Height A	Passing screw	Packaging
01AATI451A	Standard	1 mm	PS1	1 piece

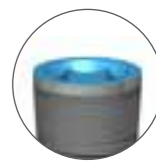
6.0

Platform



### Transmucous Ø6,0 mm

Code	Passing screw closure	Height A	Passing screw	Packaging
01AATI551A	Standard	1 mm	PS1	1 piece

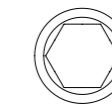


## Castable Abutment for antirotation titanium base

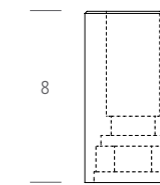
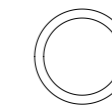
### Rotating/anti-rotation castable abutment with screw

- Castable adjustable
- Usable with anti-rotation abutment for screw retained prosthesis
- **Rotating:** ideal for bar retained prosthesis (overdenture)
- **Anti-rotation:** ideal for single crowns

Rotating



Anti-rotation



### Transmucous Ø4,5 mm

Code	Type	Passing screw	Packaging
01ACLR33A	Rotating	PSAS	1 piece
01ACL33A	Anti-rotation	PSAS	1 piece



3.5

Platform



### Transmucous Ø4,5 mm

Code	Type	Passing screw	Packaging
01ACLRC4A	Rotating	PSAS	1 piece
01ACLA	Anti-rotation	PSAS	1 piece



4.0

Platform



### Transmucous Ø5,5 mm

Code	Type	Passing screw	Packaging
01ACLRC45A	Rotating	PSAS	1 piece
01ACL45A	Anti-rotation	PSAS	1 piece



5.0

Platform



### Transmucous Ø6,0 mm

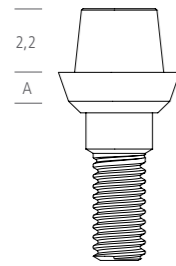
Code	Type	Passing screw	Packaging
01ACLRC55A	Rotating	PSAS	1 piece
01ACL55A	Anti-rotation	PSAS	1 piece



6.0

Platform





## Tissue abutment

### Tissue abutment for screw retained prosthesis

- Titanium gr. 5
- Different heights
- To be used with cylinder code ATIA and PSACL
- Ideal for bar retained prosthesis (overdenture)

3.5

Platform

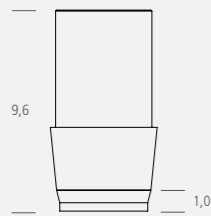


#### Transmucous Ø4,5 mm

Code	Height A	Packaging
01ATS331	1 mm	1 piece
01ATS332	2 mm	1 piece

## Overcasting cylinder for tissue abutment

- Composed of:
  - (1) overcasting titanium coping
  - (2) castable adjustable
  - (3) screw code SVCTS45V



3.5

Platform

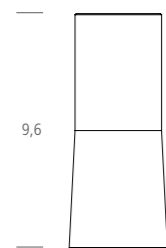


#### Transmucous Ø4,5 mm

Code	Passing Screw	Packaging
01ATIA	ATIA_V	1 piece

## Castable cylinder for tissue abutment

- Adjustable
- For screw retained prosthesis on tissue abutment (screw retained prosthesis or rotating type)
- Titanium screw adjustable in height code PSLA



3.5

Platform



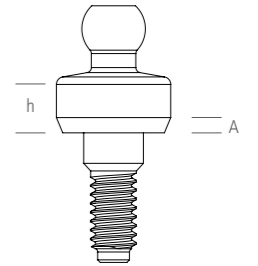
#### Transmucous Ø4,5 mm

Code	Passing Screw	Packaging
01PSACL	PSLA	1 piece



## Ball abutment

- Titanium gr. 5
- Different heights
- For ball overdenture to be used with teflon caps OT-CAP Normo



#### Transmucous Ø4,5 mm

Code	Height h	Height A	Packaging
01AB331	1 mm	1,1 mm	1 piece
01AB332	2 mm	1,1 mm	1 piece
01AB333	3 mm	1,1 mm	1 piece
01AB334	4 mm	1,1 mm	1 piece
01AB335	5 mm	1,1 mm	1 piece



3.5

Platform

#### Transmucous Ø4,5 mm

Code	Height h	Height A	Packaging
01ABC451	1 mm	0,6 mm	1 piece
01ABC452	2 mm	0,6 mm	1 piece
01ABC453	3 mm	0,6 mm	1 piece
01ABC454	4 mm	0,6 mm	1 piece
01ABC455	5 mm	0,6 mm	1 piece



4.0

Platform

#### Transmucous Ø5,0 mm

Code	Height h	Height A	Packaging
01AB502	1 mm	/	1 piece
01AB503	2 mm	/	1 piece
01AB504	3 mm	/	1 piece



5.0

Platform

#### Transmucous Ø6,0 mm

Code	Height h	Height A	Packaging
01AB602	1 mm	/	1 piece
01AB603	2 mm	/	1 piece
01AB604	3 mm	/	1 piece



6.0

Platform



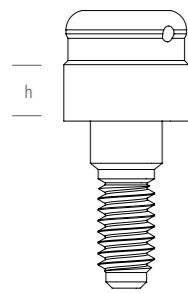




# Locator<sup>®</sup>

Locator<sup>®</sup>





## Locator® abutment

- Titanium gr. 5 TiN coated
- Different heights



3.5

Platform



Code	Height h	Packaging
5102905	1 mm	1 piece
5102906	2 mm	1 piece
5102907	3 mm	1 piece
5102908	4 mm	1 piece

4.0

Platform



Code	Height h	Packaging
5102917	1 mm	1 piece
5102918	2 mm	1 piece
5102919	3 mm	1 piece
5102920	4 mm	1 piece

## Locator® retainers

### Retentive insert

- Resin replaceable retainers for disparallelism between implants:  
up to 20° - standard retainers (blue, pink, clear)
- up to 40° - extra retainers (red, orange, green)
- Packaging 4 pieces

### IMPRESSION

Code	Color	Retention	Packaging
518515	Black	Low	4 pieces

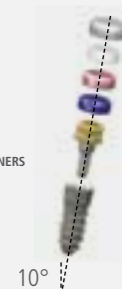
### STANDARD RETAINER

Code	Color	Retention	Packaging
518529	Blue	680 g	4 pieces
518527	Pink	1.361 g	4 pieces
518524	Clear	2.268 g	4 pieces

### RETAINER EXTRA

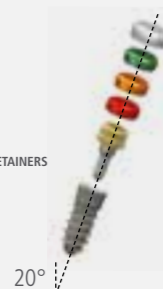
Code	Color	Retention	Packaging
518548	Red	226-680 g	4 pieces
518915	Orange	907 g	4 pieces
518547	Green	1.361-1814 g	4 pieces

STANDARD RETAINERS



10°

EXTRA RETAINERS



20°

## Locator® accessories



Code	Description
518393	Locator® Core Tool - to insert Locator® Abutments and steel caps, tips, retainers, screwing and unscrewing abutment



518397	Locator® Core Tool spare part - tip for removing the retainer (new tip only)
--------	------------------------------------------------------------------------------



518390	Locator® Abutment Driver (Gold End) spare part - driver for screwing / unscrewing the abutment
--------	------------------------------------------------------------------------------------------------



518505	Locator® Abutment Impression Coping in aluminum low-retention (4 pcs)
--------	-----------------------------------------------------------------------



518517	Locator® Parallel Post (4 pcs)
--------	--------------------------------



518530	Locator® Abutment Analog Ø 4 mm in aluminum (4 pcs)
--------	-----------------------------------------------------



518926LEA	Allen key - short - for screwing Locator® Abutment for Leader ratchet
-----------	-----------------------------------------------------------------------



518927LEA	Allen key - long - for screwing Locator® Abutment for Leader ratchet
-----------	----------------------------------------------------------------------



519530	Angle Measurement Guide
--------	-------------------------



518519-2	Consisting of Titanium Metal Cap, White Processing Spacer and 4 standard range plastic retainers with different retention capacity (2 kits)
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518540-2	Consisting of Titanium Metal Cap, White Processing Spacer and 4 extended range plastic retainers with different retention capacity (2 kits)
----------	---------------------------------------------------------------------------------------------------------------------------------------------



518550	Consisting of Stainless Steel Metal Cap, White Processing Spacer and 4 standard range plastic retainers with different retention capacity (2 kits)
--------	----------------------------------------------------------------------------------------------------------------------------------------------------



518514	Spacer rings for relining (20 pcs)
--------	------------------------------------

Locator abutments are manufactured and patented by Zest Anchors. Locator is a trademark of Zest Anchors, Inc.

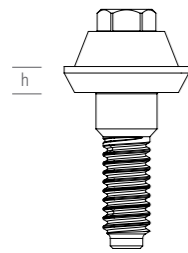
Locator abutments are manufactured and patented by Zest Anchors. Locator is a trademark of Zest Anchors, Inc.



# *Leader Leader Quick*

*Leader  
Quick*





## Leader Quick straight abutment

- Titanium gr. 5 TiN coated
- Different heights



3.5

Platform



### Transmucous Ø4,8 mm

Code	Height h	Packaging
01AAT331	1 mm	1 piece
01AAT332	2 mm	1 piece
01AAT333	3 mm	1 piece
01AAT334	4 mm	1 piece

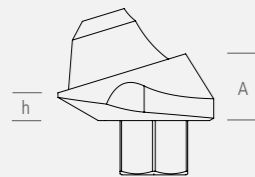
4.0

Platform



### Transmucous Ø4,8 mm

Code	Height h	Packaging
01AATC1	1 mm	1 piece
01AATC2	2 mm	1 piece
01AATC3	3 mm	1 piece
01AATC4	4 mm	1 piece



## Leader Quick pre-angled abutment

- Pre-angled abutment 17° and 30°
- Titanium gr. 5
- Different height
- Titanium support to facilitate the positioning
- Screw with torx connection



3.5

Platform



### Transmucous Ø4,8 mm

Code	Angle	Height h	Height A	Passing Screw	Packaging
01AAP3317	17°	1 mm	2,4 mm	01PSQP	1 piece
01AAP33217	17°	2 mm	3,4 mm	01PSQP	1 piece
01AAP3330	30°	1 mm	3,4 mm	01PSQP	1 piece
01AAP33230	30°	2 mm	4,4 mm	01PSQP	1 piece

4.0

Platform



### Transmucous Ø4,8 mm

Code	Angle	Height h	Height A	Passing Screw	Packaging
01AAPC17	17°	1 mm	2,4 mm	01PSQP	1 piece
01AAPC217	17°	2 mm	3,4 mm	01PSQP	1 piece
01AAPC30	30°	1 mm	3,4 mm	01PSQP	1 piece
01AAPC230	30°	2 mm	4,4 mm	01PSQP	1 piece



## Leader Quick accessories



Code	Description	Passing Screw	Packaging
01TRXP1730	Impression transfer	01PSXQT	1 piece
01ANX1730	Laboratory analog	/	1 piece
01HQX	Abutment cap	01PSXQA	1 piece
01AAQX	Temporary abutment	01PSXQA	1 piece
01AACX	Castable abutment	01PSXQA	1 piece
01TWQT	Torx connection for ratchet	/	1 piece
01TLCAQTS	Torx connection for contra-angle (short)	/	1 piece
01TLCAQTL	Torx connection for contra-angle (long)	/	1 piece
01PSQP	Passing screw for pre-angled abutment	/	1 piece
01PSXQA	Passing screw for all abutments	/	1 piece
01PSXQT	Passing screw for transfer	/	1 piece

\*Fixing at 15 Ncm, \*\*Fixing at 35Ncm



# Screw Screw list

*Screw list*





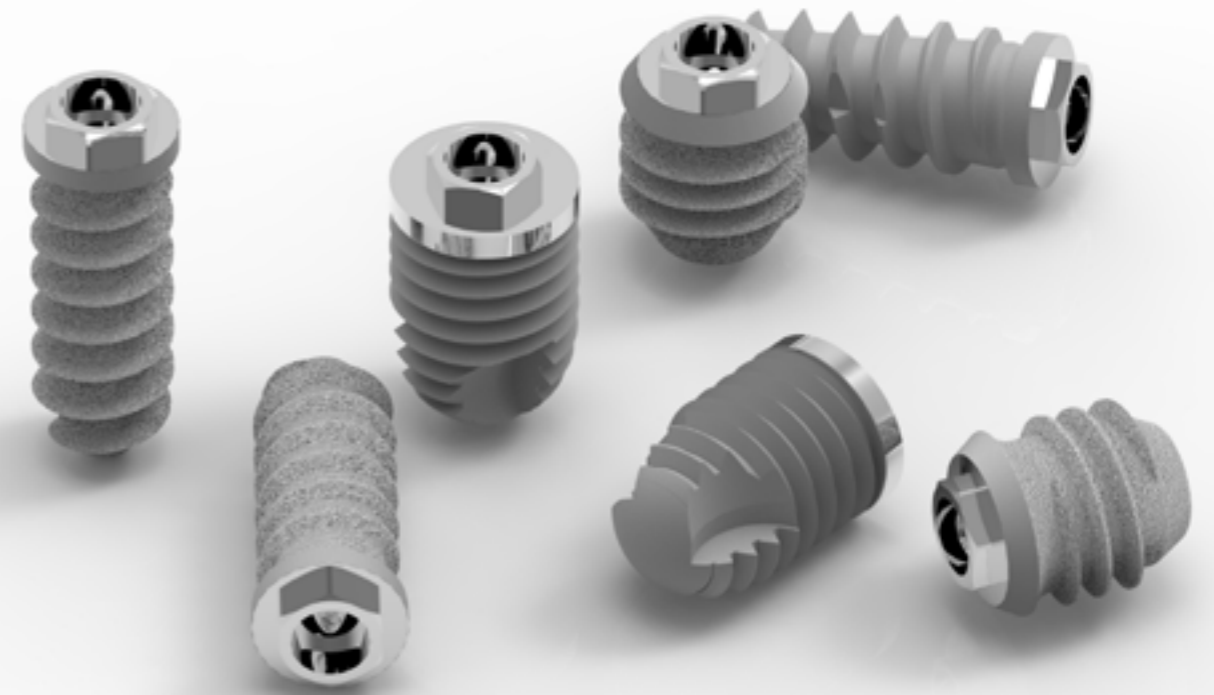
*External*  
*hex.*





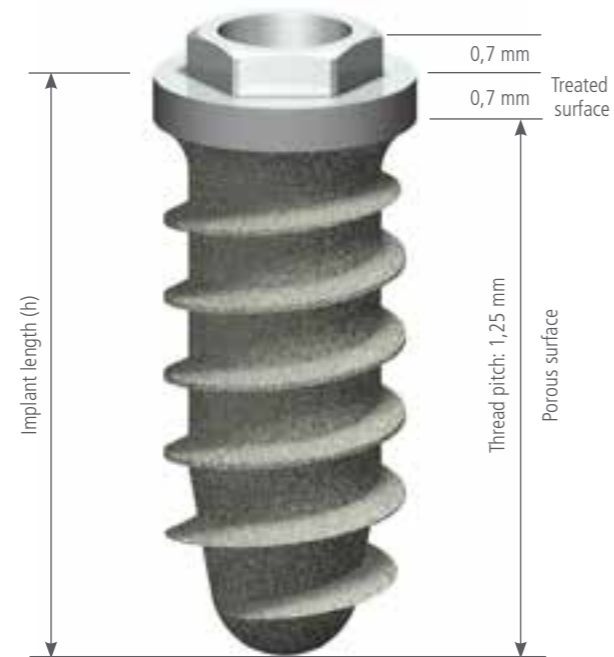
# *Implants*

*Implants*





# Tixos Cylindrical external hex.



	Implant Ø3,3 mm	Implant Ø3,75 mm	Implant Ø5,0 mm
<b>External hex. length</b>	0,7 mm	0,7 mm	0,7 mm
<b>Core Ø</b>	2,6 mm	3,0 mm	4,0 mm
<b>Apex Ø</b>	1,8 mm	2,3 mm	3,45 mm
<b>Implant length (h)</b>	<b>Code</b>	<b>Code</b>	<b>Code</b>
<b>8,0 mm</b>	//	09ITX3708	09ITX5008
<b>10,0 mm</b>	09ITX3310	09ITX3710	09ITX5010
<b>11,5 mm</b>	09ITX3311	09ITX3711	09ITX5011
<b>13,0 mm</b>	09ITX3313	09ITX3713	09ITX5013
<b>16,0 mm</b>	09ITX3316	09ITX3716	//

## Packaging

- Packaging in compliance with ISO 11607-1 and 2.
- Sterilization by gamma rays 25 kGy
- Sterility guaranteed for 5 years by waterproof double packaging in airtight sealed glass vial and blister
- The packaging contains: Implant held by a titanium mount-transfer, Surgical screw.



The surgical screw is included in the packaging.  
Code:  
- 01SSX1 (yellow)  
- 01SSX2 (blue)



## Features

- Fixture in titanium, Grade 5
- Microfused, porous, isoelastic surface
- Interconnected cavities: 2-200 microns
- Active porous surface thickness: about 250 microns
- All implants are packaged with a colour coded multi-functional tool named Mount-transfer (in titanium, Grade 5).
- High adherence to bone structure
- Great resistance to vertical stresses
- Round apex: minimum trauma during insertion

## Mount-transfer

Tixos implants are equipped with a transport tool that allows the surgeon to transport and position the implant in conditions of absolute sterility. The mount-transfer is screwed on the implant through a passing screw (M 2) to be discarded after the insertion of the implant. The upper part of the transfer has an hex ES 2.43. When using a custom tray, the long passing screw code PSXTL has to be ordered separately.

- The mount-transfer is a multi-function mechanical instrument used as:
- instrument to transport the fixture from the glass vial to the implant site
  - impression transfer
  - temporary abutment
  - permanent abutment.

The mount-transfer is colour coded to identify the relative implant platform diameter.



The cover colour identifies the platform diameter.





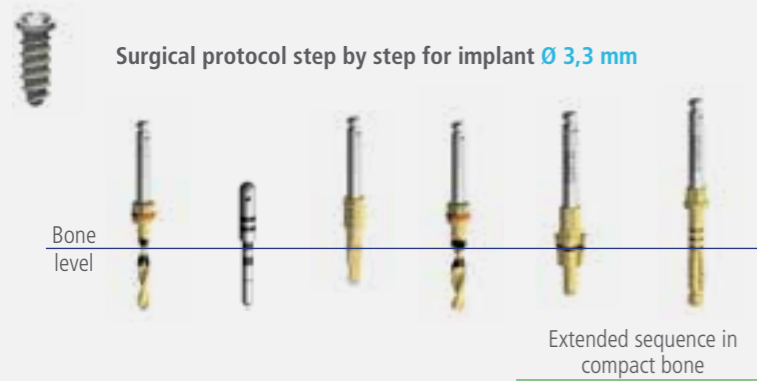
## Surgical protocol

Recommended first preparation

Tools	Round drill	Cortical drill
Code	DS19S	DSP18
Ø(mm)	1,9	1,8
Max (rpm)	1.000	800

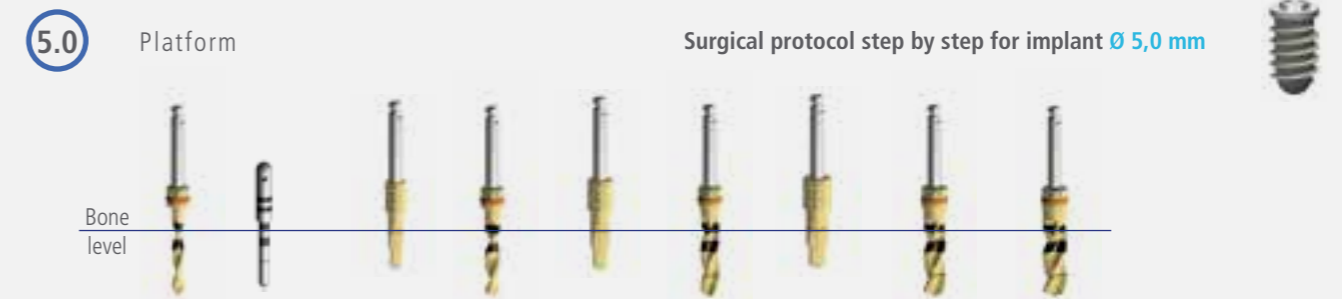
### LEGEND

Recommended drill sequence	Optional tools	D3-D4 Soft bone	D1-D2 Compact bone



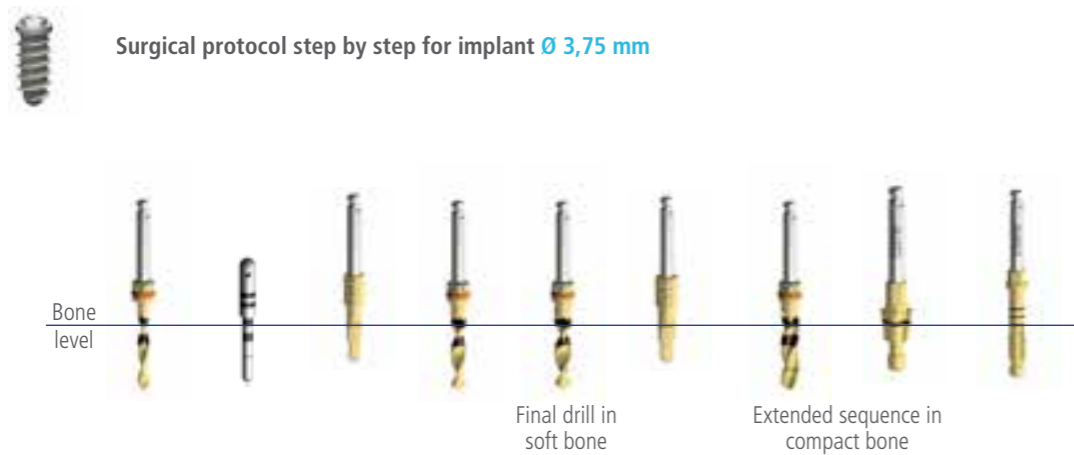
Platform **4.1**

Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Countersink	Bone tap
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	CSXT33	CTCAT33
Ø(mm)	2,0		2,0/2,6	2,6	3,3	3,3
Max (rpm)	800		500	500	250	15-18



**5.0** Platform

Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Step drill	Twist drill UNICA	Step drill	Twist drill UNICA	Twist drill UNICA
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	DSP2632	DSS32S/L	DSP3238	DSS38S/L	DSS42S/L
Ø(mm)	2,0		2,0/2,6	2,6	2,6/3,2	3,2	3,2/3,8	3,8	4,2
Max (rpm)	800		500	500	500	500	500	500	500



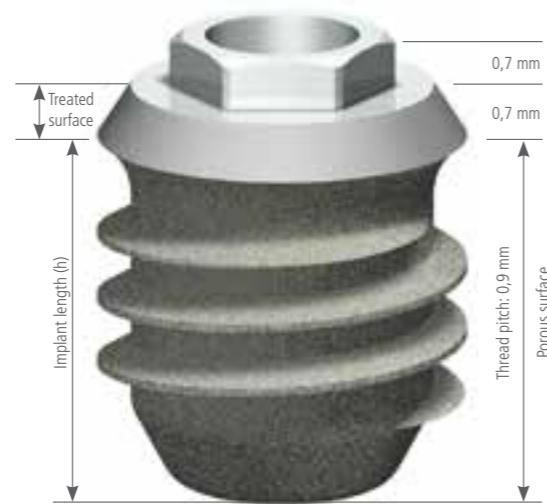
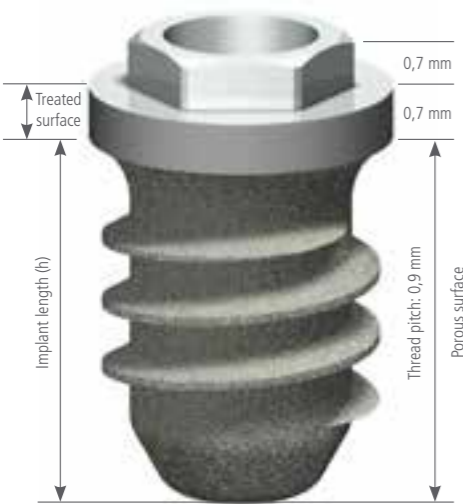
Platform **4.1**

Tools	Pilot drill	Paralleling pin	Step drill	Twist drill UNICA	Twist drill UNICA	Step drill	Twist drill UNICA	Countersink	Bone tap
Code	DSS20S/L	PN2/4	DSP2026	DSS26S/L	DSS30S/L	DSP2632	DSS32S/L	CSXT40	CTCAT37
Ø(mm)	2,0		2,0/2,6	2,6	3,0	2,6/3,2	3,2	4,0	3,7
Max (rpm)	800		500	500	500	500	500	250	15-18



# TiXos SHORT

external hex.



4.1

Platform



	Implant Ø3,75 mm	Implant Ø5,0 mm
Core Ø	3,0 mm	4,0 mm
Implant length (h)	5,0 mm	5,0 mm
	<b>Code</b>	<b>Code</b>
5,0 mm	09ITX3705	09ITX5005

## Packaging

- Packaging in compliance with ISO 11607-1 and 2.
- Sterilization by gamma rays 25 kGy
- Sterility guaranteed for 5 years by waterproof double packaging in airtight sealed glass vial and blister
- The packaging contains: Implant held by a titanium mount- transfer, Surgical screw.



The surgical screw code 01SSX1 is included in the packaging.



## Features

- Fixture in titanium, Grade 5
- Microfused, porous, isoelastic surface
- Interconnected cavities: 2-200 microns
- Active porous surface thickness: about 250 microns
- All implants are packaged with a colour coded multi-functional tool named Mount-transfer (in titanium, Grade 5).
- Ideal in particular case of poor bone quality with short vertical bone space in the posterior area of the upper jaw
- Allows to avoid advanced surgical operations such as sinus lift
- Time and cost saving

## Mount-transfer

Tixos implants are equipped with a transport tool that allows the surgeon to transport and position the implant in conditions of absolute sterility. The mount-transfer is screwed on the implant through a passing screw (M 2) to be discarded after the insertion of the implant. The upper part of the transfer has an hex ES 2.43. When using a custom tray, the long passing screw code PSXTL has to be ordered separately.

- The mount-transfer is a multi-function mechanical instrument used as:
- instrument to transport the fixture from the glass vial to the implant site
  - impression transfer
  - temporary abutment
  - permanent abutment.

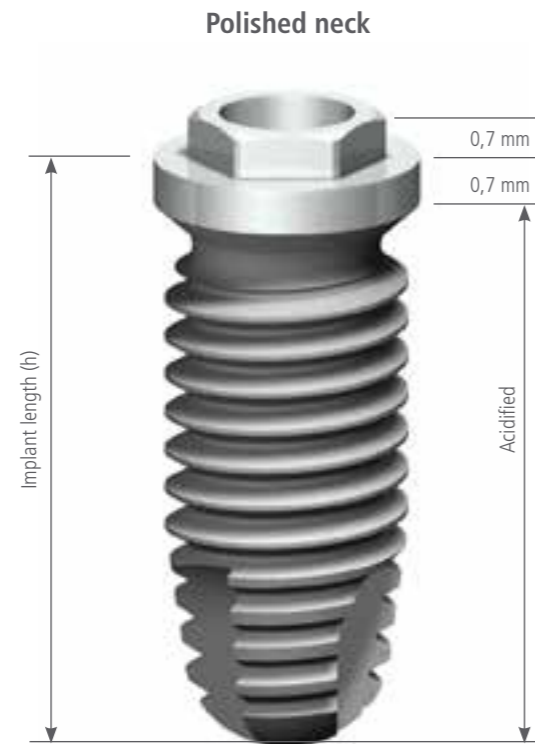
The mount-transfer is colour coded to identify the relative implant platform diameter.







# IMPLUS Cylindrical external hex.

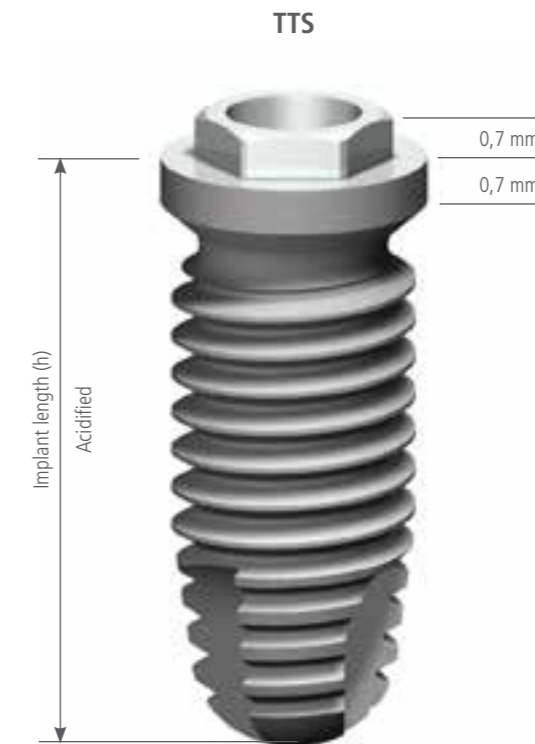


Platform **Implant Ø3,3 mm** Platform **Implant Ø3,75 mm** Platform **Implant Ø5,0 mm**

Thread pitch	Implant Ø3,3 mm	Implant Ø3,75 mm	Implant Ø5,0 mm
	0,6 mm	0,6 mm	0,75 mm
<b>Implant length (h)</b>	<b>Code</b>	<b>Code</b>	<b>Code</b>
0,8 mm	//	01X3708	01X5008
10,0 mm	01X3310	01X3710	01X5010
11,5 mm	01X3311	01X3711	01X5011
13,0 mm	01X3313	01X3713	01X5013
16,0 mm	01X3316	01X3716	//
18,0 mm	//	01X3718	//
20,0 mm	//	01X3720	//



# IMPLUS Cylindrical external hex.



Platform **Implant Ø3,3 mm** Platform **Implant Ø3,75 mm** Platform **Implant Ø5,0 mm**

Thread pitch	Implant Ø3,3 mm	Implant Ø3,75 mm	Implant Ø5,0 mm
	0,6 mm	0,6 mm	0,75 mm
<b>Implant length (h)</b>	<b>Code</b>	<b>Code</b>	<b>Code</b>
0,8 mm	//	01X3708TTS	01X5008TTS
10,0 mm	01X3310TTS	01X3710TTS	01X5010TTS
11,5 mm	01X3311TTS	01X3711TTS	01X5011TTS
13,0 mm	01X3313TTS	01X3713TTS	01X5013TTS
16,0 mm	01X3316TTS	01X3716TTS	//
18,0 mm	//	01X3718TTS	//
20,0 mm	//	01X3720TTS	//



### Packaging

- Packaging in compliance with ISO 11607-1 and 2
- Sterilization by gamma rays 25 kGy
- Sterility guaranteed for 5 years by waterproof double packaging in airtight sealed glass vial and blister
- The packaging contains: Implant held by a titanium mount-transfer Surgical screw.



The surgical screw is included in the packaging.  
Code:  
- 01SSX1 (yellow)  
- 01SSX2 (blue)

### Features

- Self-threading fixture in pure titanium, Grade 4
- Micro-rough surface (B.O.A.T. treatment)
- Three anti-rotation apical grooves
- Available in two models:
  - Polished neck h 0.7 mm
  - TTS Totally Treated Surface
- All implants are packaged with a colour coded multi-functional tool named "mount-transfer" (in titanium, Grade 5)
- Ideal for multiple implants

- Simple prosthetic components
- Optimum resistance to vertical stresses
- Ideal for upper and lower premolar and molar
- Round apex: minimum trauma during insertion

Implus implants guarantee an optimum distribution of masticatory load, thus preserving the crestal bone (bone/implant interface - critical area).

### Mount-transfer

Both IMPLUS implants (with polished neck and TTS) are equipped with a transport tool that allows the surgeon to transport and position the implant in conditions of absolute sterility. The mount-transfer is screwed on the implant through a passing screw (M 2) to be discarded after the insertion of the implant. The upper part of the transfer has an hex ES 2.43. When using a custom tray, the long passing screw code PSXTL has to be ordered separately.

- The mount-transfer is a multi-function mechanical instrument used as:
- instrument to transport the fixture from the glass vial to the implant site;
  - impression transfer
  - temporary abutment
  - permanent abutment.

The mount-transfer is colour coded to identify the relative implant platform diameter.



The cover colour identifies the platform diameter.





## Surgical protocol

Recommended first preparation

Tools	Round drill	Cortical drill
Code	DS19S	DSP18
Ø(mm)	1,9	1,8
Max (rpm)	1.000	800

### LEGEND

Recommended drill sequence	Optional tools	D3-D4 Soft bone	D1-D2 Compact bone



### Surgical protocol step by step for implant Ø 3,3 mm

Platform **4.1**



Tools	Pilot drill	Twist drill UNICA	Countersink	Bone tap
Code	DSS20S/L	DSS26S/L	CSX33	CT33/CTCA33
Ø(mm)	2,0	2,6	3,3	3,3
Max (rpm)	800	500	250	15-18

**5.0**

Platform

### Surgical protocol step by step for implant Ø 5,0 mm

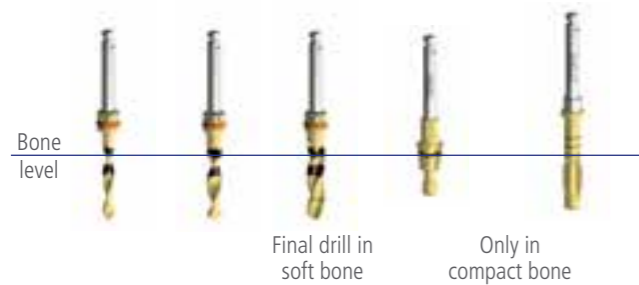


Tools	Pilot drill	Twist drill UNICA	Twist drill UNICA	Twist drill UNICA	Twist drill UNICA	Bone tap
Code	DSS20S/L	DSS26S/L	DSS32S/L	DSS38S/L	DSS42S/L	CT50/CTCA50
Ø(mm)	2,0	2,6	3,2	3,8	4,2	5,0
Max (rpm)	800	500	500	400	400	15-18



### Surgical protocol step by step for implant Ø 3,75 mm

Platform **4.1**



Tools	Pilot drill	Twist drill UNICA	Twist drill UNICA	Countersink	Bone tap
Code	DSS20S/L	DSS26S/L	DSS32S/L	CSX40	CT37/CTCA37
Ø(mm)	2,0	2,6	3,2	4,0	3,75
Max (rpm)	800	500	500	250	15-18

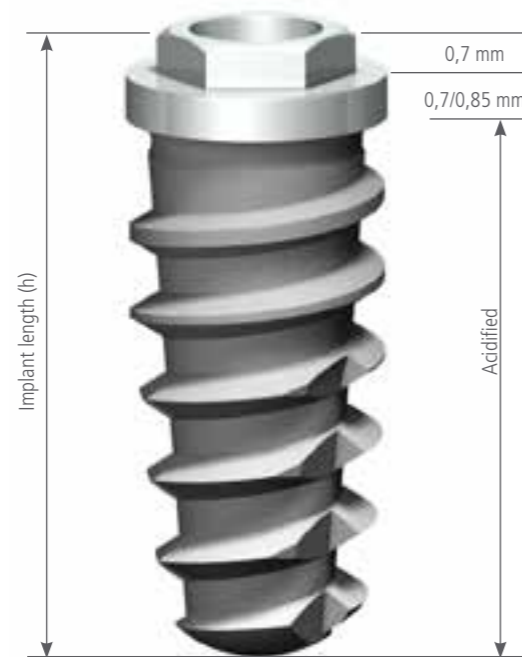




# IMPLUS Tapered

external hex.

Polished neck  
wide thread



4.1

Platform



5.0

Platform



**Implant Ø4,0 mm**

**Implant Ø5,0 mm**

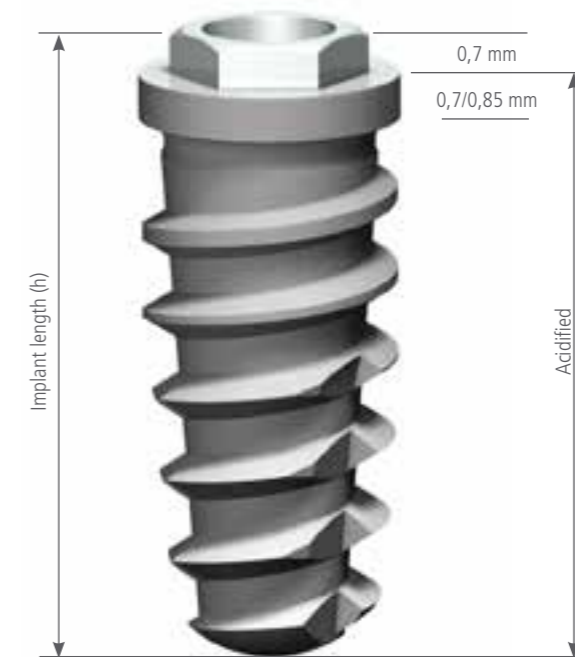
Internal hex. length	0,7 mm	0,7 mm
Body	Gradually tapered	Gradually tapered
Thread pitch	1,3 mm	1,6 mm
Tapered apex	2,25 mm	2,75 mm
Neck	0,7 mm	0,85 mm
Implant length (h)	<b>Code</b>	<b>Code</b>
8,0 mm	01ICX4008	01ICX5008
10,0 mm	01ICX4010	01ICX5010
11,5 mm	01ICX4011	01ICX5011
13,0 mm	01ICX4013	01ICX5013
16,0 mm	01ICX4016	//



# IMPLUS Tapered

external hex.

TTS  
wide thread



4.1

Platform



5.0

Platform



**Implant Ø4,0 mm**

**Implant Ø5,0 mm**

Internal hex. length	0,7 mm	0,7 mm
Body	Gradually tapered	Gradually tapered
Thread pitch	1,3 mm	1,6 mm
Tapered apex	2,25 mm	2,75 mm
Neck	0,7 mm	0,85 mm
Implant length (h)	<b>Code</b>	<b>Code</b>
8,0 mm	01ICX4008TTS	01ICX5008TTS
10,0 mm	01ICX4010TTS	01ICX5010TTS
11,5 mm	01ICX4011TTS	01ICX5011TTS
13,0 mm	01ICX4013TTS	01ICX5013TTS
16,0 mm	01ICX4016TTS	//





## Packaging

- Packaging in compliance with ISO 11607-1 and 2
- Sterilization by gamma rays 25 kGy
- Sterility guaranteed for 5 years by waterproof double packaging in airtight sealed glass vial and blister
- The packaging contains: Implant held by a titanium mount-transfer Surgical screw.



The surgical screw is included in the packaging.  
Code:  
- 01SSX1 (yellow)  
- 01SSX2 (blue)

## Features

- Self-threading fixture in pure titanium, Grade 4
- Micro-rough surface (B.O.A.T. treatment)
- Three anti-rotation apical grooves
- Available in two models:  
- Polished neck  
- TTS Totally Treated Surface
- All implants are packaged with a colour coded multi-functional

- tool named "mount-transfer" (in titanium, Grade 5).
  - Ideal for multiple implants
  - Simple prosthetic components
  - Optimum resistance to vertical stresses
  - Ideal for post-extraction sites
- Implus implants guarantee an optimum distribution of masticatory load, thus preserving the crestal bone (bone/implant interface - critical area).

## Mount-transfer

Both IMPLUS implants (with polished neck and TTS) are equipped with a transport tool that allows the surgeon to transport and position the implant in conditions of absolute sterility.  
The mount-transfer is screwed on the implant through a passing screw (M 2) to be discarded after the insertion of the implant.  
The upper part of the transfer has an hex ES 2.43  
When using a custom tray, the long passing screw code PSXTL has to be ordered separately.

- The mount-transfer is a multi-function mechanical instrument used as:
- instrument to transport the fixture from the glass vial to the implant site;
  - impression transfer
  - temporary abutment
  - permanent abutment.

The mount-transfer is colour coded to identify the relative implant platform diameter.



Ø4.1

Ø5.0

The cover colour identifies the platform diameter.

external hex.

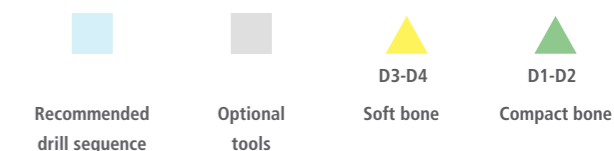


## Surgical protocol

### Recommended first preparation

Tools	Round drill	Cortical drill
Code	DS19S	DSP18
Ø(mm)	1,9	1,8
Max (rpm)	1.000	800

### LEGEND



4.1

Platform

Surgical protocol step by step for implant Ø 4,0 mm



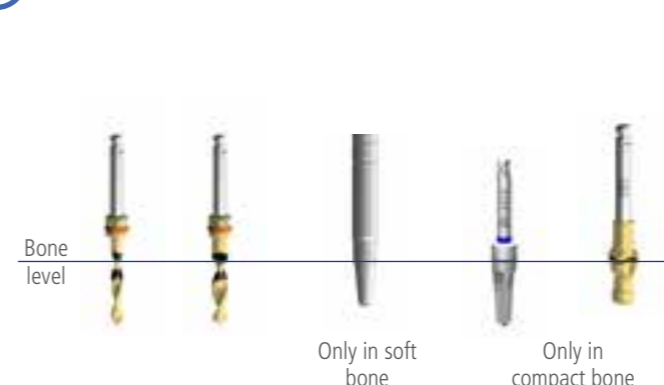
Tools	Pilot drill	Twist drill UNICA	Exp. Osteotome Ø 4,0	Tapered drill	Countersink drill
Code	DSS20S/L	DSS23S/L	Code	DSC4...(*)	CSX40
Ø(mm)	2,0	2,3	OE4008 OE4010 OE4011 OE4013 OE4016	Tapered	4,0
Max (rpm)	800	500		200	250
				Depth only 1 mm	

(\*) Choose the tapered drill based on the implant length  
Code : 01DSC408/10/11/13/16

5.0

Platform

Surgical protocol step by step for implant Ø 5,0 mm



Tools	Pilot drill	Twist drill UNICA	Exp. Osteotome Ø 5,0	Tapered drill	Countersink drill
Code	DSS20S/L	DSS28S/L	Code	DSC5...(*)	CS5
Ø(mm)	2,0	2,8	OE5008 OE5010 OE5011 OE5013 OE5016	Tapered	5,0
Max (rpm)	800	500		200	250
				Depth only 1 mm	

(\*) Choose the tapered drill based on the implant length  
Code : 01DSC508/10/11/13

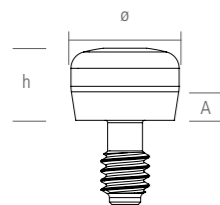
external hex.



# Healing screws

*Healing  
screws*





## Titanium healing screw

- Titanium gr. 5
- Different heights
- One piece

4.1

Platform



### Transmucous Ø4,5 mm

Code	Height h	Height A	Packaging
01HCX333	3,0 mm	1,3 mm	1 piece
01HCX334	4,0 mm	1,3 mm	1 piece
01HCX335	5,0 mm	1,3 mm	1 piece
01HCX336	6,0 mm	1,3 mm	1 piece
01HCX337	7,0 mm	1,3 mm	1 piece



### Transmucous Ø6,0 mm

Code	Height h	Height A	Packaging
01HCX60334	4,0 mm	1,5 mm	1 piece
01HCX60335	5,0 mm	1,5 mm	1 piece
01HCX60336	6,0 mm	1,5 mm	1 piece
01HCX60337	7,0 mm	1,5 mm	1 piece

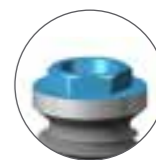
5.0

Platform



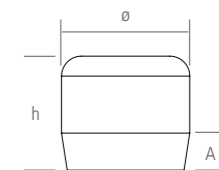
### Transmucous Ø5,5 mm

Code	Height h	Height A	Packaging
01HCX504	4,0 mm	1,3 mm	1 piece
01HCX506	6,0 mm	1,3 mm	1 piece



## Tecapeek healing screw

- Aesthetic
- Biocompatible
- Inhibition to bacterial attack
- Chemical inertia
- Auotclavable
- Different heights
- With passing screw



### Transmucous Ø4,5 mm

Code	Height h	Height A	Passing Screw	Packaging
01HPKXC334	4,0 mm	1,3 mm	PSTXXS	1 piece
01HPKXC335	5,0 mm	1,3 mm	PSXTS	1 piece
01HPKXC336	6,0 mm	1,3 mm	PSKX6	1 piece
01HPKXC337	7,0 mm	1,3 mm	PSKX7	1 piece



4.1

Platform

### Transmucous Ø6,0 mm

Code	Height h	Height A	Passing Screw	Packaging
01HPKXC60334	4,0 mm	1,5 mm	PSTXXS	1 piece
01HPKXC60335	5,0 mm	1,5 mm	PSXTS	1 piece
01HPKXC60336	6,0 mm	1,5 mm	PSKX6	1 piece
01HPKXC60337	7,0 mm	1,5 mm	PSKX7	1 piece



### Transmucous Ø6,0 mm

Code	Height h	Height A	Passing Screw	Packaging
01HPKXC504	4,0 mm	1,3 mm	PSTXXS	1 piece
01HPKXC506	6,0 mm	1,3 mm	PSKX6	1 piece



5.0

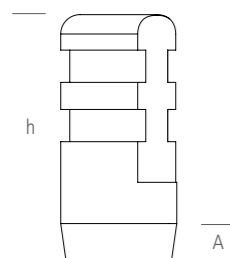
Platform



# *Impression components*

*Impression  
components*





## Impression transfer

- Titanium gr. 5
- Packed with long passing screw

4.1

Platform



### Transmucous Ø4,5 mm

Code	Height h	Height A	Screw	Packaging
01TRX33	9,5 mm	1,4 mm	PSXTL	1 piece



### Transmucous Ø5,5 mm

Code	Height h	Height A	Screw	Packaging
01TRXS41	8,0 mm	2,0 mm	PSXTL	1 piece

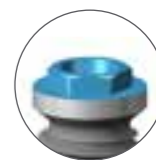
5.0

Platform



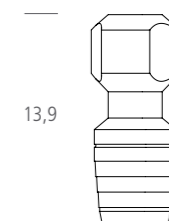
### Transmucous Ø5,5 mm

Code	Height h	Height A	Screw	Packaging
01TRX50	11,0 mm	2,0 mm	PSXTL	1 piece



## Impression transfer for pick-up technique

- Titanium gr. 5
- Different heights
- One piece



Code	Screw	Packaging
01TRXP33	01PSXTTL	1 piece



4.1

Platform

Code	Packaging	Packaging
01TRXP50	01PSXTTL	1 piece



5.0

Platform



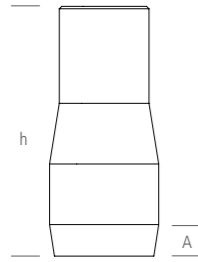


# *Cement retained components*

*Cement retained  
components*







## Standard straight titanium abutment

- Titanium gr. 5
- Different diameters
- Adjustable

4.1

Platform



### Transmucous Ø4,5 mm

Code	Passing screw closure	Height h	Height A	Passing screw	Packaging
01ATIX33	Standard	10,3 mm	1,3 mm	PSXTS	1 piece
01ATIXF33	Frictioning*	10,3 mm	1,3 mm	PSXF	1 piece



### Transmucous Ø6,0 mm

Code	Passing screw closure	Height h	Height A	Passing screw	Packaging
01ATI60X33	Standard	10,0 mm	1,6 mm	PSXTS	1 piece

5.0

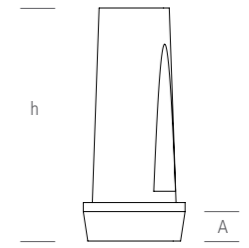
Platform



### Transmucous Ø5,5 mm

Code	Passing screw closure	Height h	Height A	Passing screw	Packaging
01ATIX5	Standard	10,0 mm	1,7 mm	PSXTS	1 piece
01ATIXF5	Frictioning*	10,0 mm	1,7 mm	PSXTS	1 piece

\*Each frictioning abutment is equipped with PSF tapered passing screw. WARNING: insert the abutment taking care that the hex connection is perfectly accommodated in its site. Then fix it screwing the tapered screw in. Use driver TLM16S and connections TW16L (manual) / TLCA16L (contra-angle).



## Shouldered straight titanium abutment

- Titanium gr. 5
- Different diameters
- Adjustable

### Transmucous Ø4,5 mm

Code	Passing screw closure	Height h	Height A	Passing screw	Packaging
01AXS33	Standard	10,3 mm	1,7 mm	PSXTS	1 piece
01AXSF33	Frictioning*	10,3 mm	1,7 mm	PSXTS	1 piece



4.1

Platform



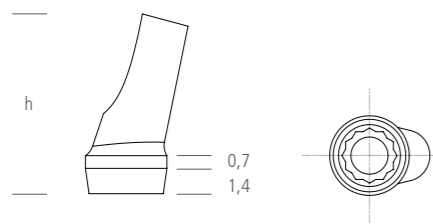
### Transmucous Ø6,0 mm

Code	Passing screw closure	Height h	Height A	Passing screw	Packaging
01AXS6033	Standard	10,3 mm	2,2 mm	PSXTS	1 piece

\*Each frictioning abutment is equipped with PSF tapered passing screw. WARNING: insert the abutment taking care that the hex connection is perfectly accommodated in its site. Then fix it screwing the tapered screw in. Use driver TLM16S and connections TW16L (manual) / TLCA16L (contra-angle).



## Pre-angled titanium abutment



- Titanium gr. 5
- Adjustable
- Different diameters
- Available with an angle of 15° or 25°

4.1

Platform



### Transmucous Ø4,5 mm

Code	Passing screw closure	Angle	Height h	Passing screw	Packaging
01APX1533	Standard	15°	12,20 mm	PSTXS	1 piece
01APX2533	Frictioning*	15°	12,20 mm	PSF	1 piece

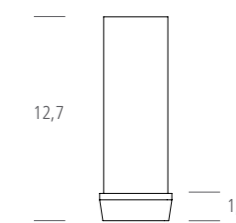


## Castable Abutment

Rotating



Anti-rotation



- Abutment for cemented prothesis or for single screw retained crowns
- Different diameters
- Adjustable

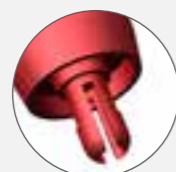
### Transmucous Ø4,5 mm

Code	Passing screw closure	Type	Passing screw	Packaging
01CLR33	Standard	Rotating	PSCLXS	1 piece
01CLR33/10	Standard	Rotating	PSCLXS	10 pieces
01CLX33	Standard	Anti-rotation	PSCLXS	1 piece
01CLX33/10	Standard	Anti-rotation	PSCLXS	10 pieces
01CLXF33	Frictioning*	Anti-rotation	PSXF	1 piece



4.1

Platform



## Titanium trial kit

- Includes 6 titanium trial abutments: 2x straight, 2x pre-angled 25°, 2x pre-angled 15°
- The trial abutments are inserted on the implant or on the analog to select the ideal support
- The trial abutments only are autoclavable at 121°C

Code  
01K60

### Transmucous Ø6,0 mm

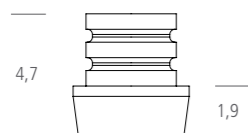
Code	Passing screw closure	Type	Passing screw	Packaging
01CLX50	Standard	Anti-rotation	PSCLXS	1 piece
01CLXF50	Frictioning*	Anti-rotation	PSXF	1 piece



5.0

Platform

## Overcasting titanium coping



- Titanium gr. 5
- Overcastable
- Ideal alloy gold or extra hard noble Title 500
- Max. pre-heating temperature 800 °C

4.1

Platform



### Transmucous Ø4,5 mm

Code	Passing screw closure	Passing screw	Packaging
01ATIBX33	Standard	PSTXXS	1 piece
01ATIBXF33	Frictioning*	PSTXXS	1 piece

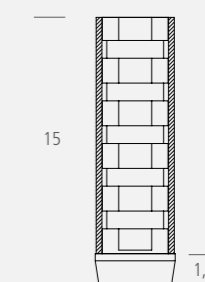
#### INSTRUCTIONS FOR USE

Before proceeding with the modelling, sandblast or roughen the grooved surface with a drill. Prepare for the casting in the usual way; there are no contra-indications to the use of phosphate investments, even the rapid ones. Perform the preheating making sure not to exceed 800°C; the permanence time in the oven must not be too long max. 30-40 minutes. Use yellow gold alloy or gold extra hard alloy, title 500, eliminate the coating in excess in the usual way, making sure not to use acids that can corrode titanium (such as hydrofluoric acid) and eliminate the remaining oxide traces with a light sandblasting with glass balls (for example microblast etc.). Important: The base is not particularly suitable for ceramic overbaking. However, if you proceed with the ceramic coating, use ceramic suitable for titanium and, after each baking, remove the formed oxide by pickling or light sandblasting.

\*Each frictioning abutment is equipped with PSF tapered passing screw. WARNING: insert the abutment taking care that the hex connection is perfectly accommodated in its site. Then fix it screwing the tapered screw in. Use driver TLM16S and connections TW16L (manual) / TLCA16L (contra-angle).

## Titanium abutment for gluing technique

- Titanium gr. 5 + cylinder in POM-C



### Transmucous Ø4,5 mm

Code	Passing screw	Packaging
01ACIX4	PSXTS	1 piece



4.1

Platform

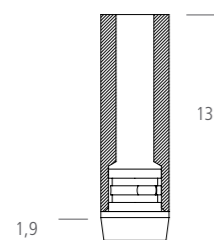
\*Each frictioning abutment is equipped with PSF tapered passing screw. WARNING: insert the abutment taking care that the hex connection is perfectly accommodated in its site. Then fix it screwing the tapered screw in. Use driver TLM16S and connections TW16L (manual) / TLCA16L (contra-angle).



## Castable gold / cobalt chrome abutment

- Castable abutment
- Extractor code PSES (not included)
- Available with gold or chrome-cobalt alloy base

Gold melting temperature : 1350°C ÷ 1460°C  
Cobalt-Chrome melting temperature : 1390°C ± 50°C



4.1

Platform



### Transmucous Ø4,5 mm

Code	Passing screw closure	Material	Type	Passing screw	Packaging
01AGCLRX33	Standard	Gold	Rotating	PSTXXS	1 piece
01AGCLX33	Frictioning*	Gold	Anti-rotation	PSTXXS	1 piece
01AGCLXF33	Standard	Gold	Anti-rotation	PSTXXS	1 piece
01ACRCLX33	Standard	CO-CR	Anti-rotation	PSTXXS	1 piece

5.0

Platform



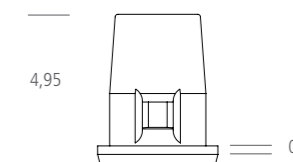
### Transmucous Ø5,0 mm

Code	Passing screw closure	Material	Type	Passing screw	Packaging
01AGCLX5	Standard	Gold	Anti-rotation	PSTXXS	1 piece
01AGCLXF5	Frictioning*	Gold	Anti-rotation	PSTXXS	1 piece
01ACRCLX5	Standard	CO-CR	Anti-rotation	PSTXXS	1 piece

## TiBase for Cerec\* cad-cam system

- Titanium gr. 5
- For the realization of custom abutment and prosthesis on implant which are project with CEREC\* system by Sirona
- Scanbody to buy separately based on the intraoral scanner possessed

\*CEREC is a Sirona system. It recommends the use of the Sirona protocol



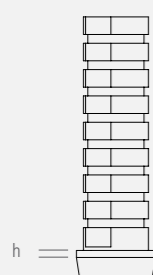
### Transmucous Ø4,5 mm

Code	Passing screw closure	Passing screw	Packaging
01BCX41	Standard	PSXTS	1 piece



4.1

Platform



Rotating



Anti-rotation



## Tecapeek temporary abutment

- Biocompatibility
- For immediate temporary restorations
- Milled surface to facilitate resin adhesion

4.1

Platform



### Transmucous Ø4,5 mm

Code	Type	Height A	Passing screw	Packaging
01APKXR33	Rotating	0,5	PSXTS	1 piece
01APKX33	Anti-rotation	2,5	PSXTS	1 piece
01APKXRA33	Rotating	0,5	PSXTS	1 piece
01APKXA33	Anti-rotation	2,5	PSXTS	1 piece



\*Each frictioning abutment is equipped with PSF tapered passing screw. WARNING: insert the abutment taking care that the hex connection is perfectly accommodated in its site. Then fix it screwing the tapered screw in. Use driver TLM16S and connections TW16L (manual) / TLCA16L (contra-angle).



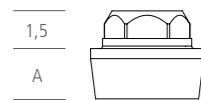
# *Screw retained components*

*Screw retained  
components*





## Anti-rotation abutment for screw retained



- Titanium gr. 5
- Anti-rotation abutment for screw retained prosthesis
- To be used with castable abutments
- Extractor code PSES
- Passing screw with threaded head

4.1

Platform



### Transmucous Ø4,5 mm

Code	Height A	Passing screw	Packaging
01AATIX331A	1 mm	PSX1	1 piece
01AATIX332A	2 mm	PSX2	1 piece

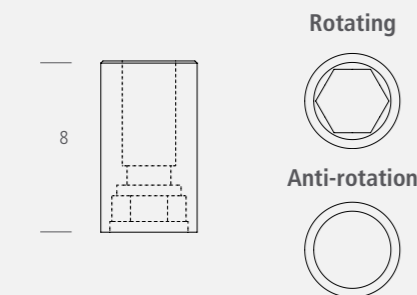
5.0

Platform



### Transmucous Ø5,5 mm

Code	Height A	Passing screw	Packaging
01AATIX501A	1 mm	PSX1	1 piece



## Castable abutment for antirotation titanium base

### Rotating/anti-rotation castable abutment with screw

- Castable adjustable
- Usable with anti-rotation abutment for screw retained prosthesis
- **Rotating:** ideal for bar retained prosthesis (overdenture)
- **Anti-rotation:** ideal for single crowns

4.1

Platform



### Transmucous Ø4,5 mm

Code	Type	Passing screw	Packaging
01ACLRX33A	Rotating	PSAS	1 piece
01ACLX33A	Anti-rotation	PSAS	1 piece

5.0

Platform



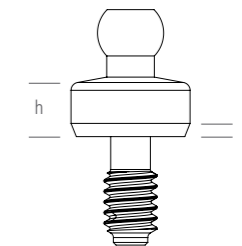
### Transmucous Ø4,5 mm

Code	Type	Passing screw	Packaging
01ACLRX50A	Rotating	PSAS	1 piece
01ACLX50A	Anti-rotation	PSAS	1 piece



## Ball abutment

- Titanium gr. 5
- Different heights
- For ball overdenture to be used with teflon caps OT-CAP Normo



4.1

Platform

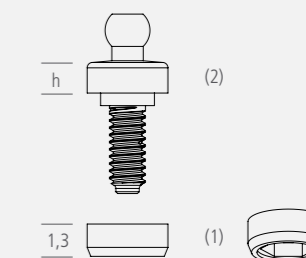


### Transmucous Ø4,5 mm

Code	Height h	Height A	Packaging
01ABX332	2 mm	0,5 mm	1 piece
01ABX333	3 mm	0,5 mm	1 piece
01ABX334	4 mm	0,5 mm	1 piece
01ABX335	5 mm	0,5 mm	1 piece

## Anti-rotation two pieces ball abutment

- Titanium gr. 5
- 1) Ball abutment base Ø 4,5, height 1,3 mm
- 2) Ball abutment body
- Different heights
- For ball overdenture to be used with teflon caps OT-CAP Normo\*\*



4.1

Platform



### Transmucous Ø4,5 mm

Code	Height h	Packaging
01ABXA332	0,8 mm	1 piece
01ABXA333	1,8 mm	1 piece
01ABXA334	2,8 mm	1 piece
01ABXA335	3,8 mm	1 piece



# Locator<sup>®</sup>

## Locator<sup>®</sup>



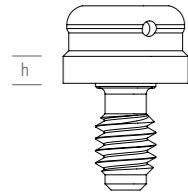
Locator<sup>®</sup>



## Locator<sup>®</sup> abutment



- Titanium gr. 5 TiN coated
- Different heights



4.1

Platform



Code	Height h	Packaging
5102911	1 mm	1 piece
5102912	2 mm	1 piece
5102913	3 mm	1 piece
5102914	4 mm	1 piece

## Locator<sup>®</sup> accessories



Code	Description
518393	Locator <sup>®</sup> Core Tool - to insert Locator <sup>®</sup> Abutments and steel caps, tips, retainers, screwing and unscrewing abutment
518397	Locator <sup>®</sup> Core Tool spare part - tip for removing the retainer (new tip only)
518390	Locator <sup>®</sup> Abutment Driver (Gold End) spare part - driver for screwing / unscrewing the abutment
518505	Locator <sup>®</sup> Abutment Impression Coping in aluminum low-retention (4 pcs)
518517	Locator <sup>®</sup> Parallel Post (4 pcs)
518530	Locator <sup>®</sup> Abutment Analog Ø 4 mm in aluminum (4 pcs)
518926LEA	Allen key - short - for screwing Locator <sup>®</sup> Abutment for Leader ratchet
518927LEA	Allen key - long - for screwing Locator <sup>®</sup> Abutment for Leader ratchet
519530	Angle Measurement Guide
518519-2	Consisting of Titanium Metal Cap, White Processing Spacer and 4 standard range plastic retainers with different retention capacity (2 kits)
518540-2	Consisting of Titanium Metal Cap, White Processing Spacer and 4 extended range plastic retainers with different retention capacity (2 kits)
518550	Consisting of Stainless Steel Metal Cap, White Processing Spacer and 4 standard range plastic retainers with different retention capacity (2 kits)
518514	Spacer rings for relining (20 pcs)

## Locator<sup>®</sup> retainers

### Retentive insert

- Resin replaceable retainers for disparallelism between implants:
  - up to 20° - standard retainers (blue, pink, clear)
  - up to 40° - extra retainers (red, orange, green)
- Packaging 4 pieces



10°  
STANDARD RETAINERS



20°  
EXTRA RETAINERS

### IMPRESSION

Code	Color	Retention	Packaging
518515	Black	Low	4 pieces



### STANDARD RETAINER

Code	Color	Retention	Packaging
518529	Blue	680 g	4 pieces
518527	Pink	1.361 g	4 pieces
518524	Clear	2.268 g	4 pieces



### RETAINER EXTRA

Code	Color	Retention	Packaging
518548	Red	226-680 g	4 pieces
518915	Orange	907 g	4 pieces
518547	Green	1.361-1814 g	4 pieces



Locator abutments are manufactured and patented by Zest Anchors. Locator is a trademark of Zest Anchors, Inc.

Locator abutments are manufactured and patented by Zest Anchors. Locator is a trademark of Zest Anchors, Inc.

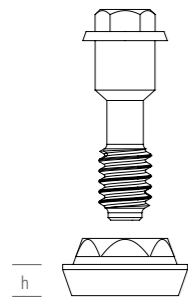


# *Leader Leader Quick*



*Leader  
Quick*





## Leader Quick straight abutment

- Titanium gr. 5 TiN coated
- Different heights



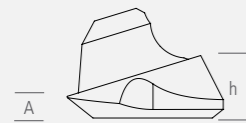
4.1

Platform



### Transmucous Ø4,8 mm

Code	Height h	Passing Screw	Packaging
01AATX1	1 mm	01PSXQA1	1 piece
01AATX2	2 mm	01PSXQA2	1 piece
01AATX3	3 mm	01PSXQA3	1 piece



## Leader Quick pre-angled abutment

### Pre-angled abutment 17° and 30°

- Titanium gr. 5
- Titanium support to facilitate the positioning
- Screw with torx connection



4.1

Platform



### Transmucous Ø4,8 mm

Code	Angle	Height h	Height A	Passing Screw	Packaging
01AAPX17	17°	2,15 mm	0,7 mm	01PSXQP	1 piece
01AAPX30	30°	4 mm	1,5 mm	01PSXQP	1 piece

\*Fixing at 15 Ncm, \*\*Fixing at 35Ncm



## Leader Quick accessories



Code	Description	Passing Screw	Packaging
01TRXP1730	Impression transfer	01PSXQT	1 piece
01ANX1730	Laboratory analog	/	1 piece
01HQX	Abutment cap	01PSXQA	1 piece
01AAQX	Temporary abutment	01PSXQA	1 piece
01AACX	Castable abutment	01PSXQA	1 piece
01TWQ	Connection for ratchet for fixing straight abutment code 01AATX1/ 01AATX2/ 01AATX3 (**)	/	1 piece
01TWQT	Torx connection for ratchet for screw code PSXQA / PSXQP / PSXQT (*)	/	1 piece
01TLCAQTS	Torx connection for contra-angle (short)	/	1 piece
01TLCAQTL	Torx connection for contra-angle (long)	/	1 piece
01PSQP	Passing screw for pre-angled abutment	/	1 piece
01PSXQA	Passing screw for all abutments	/	1 piece
01PSXQT	Passing screw for transfer	/	1 piece

\*Fixing at 15 Ncm, \*\*Fixing at 35Ncm



# Screw Screw list

*Screw list*





*Implus nano*



# *Implants*

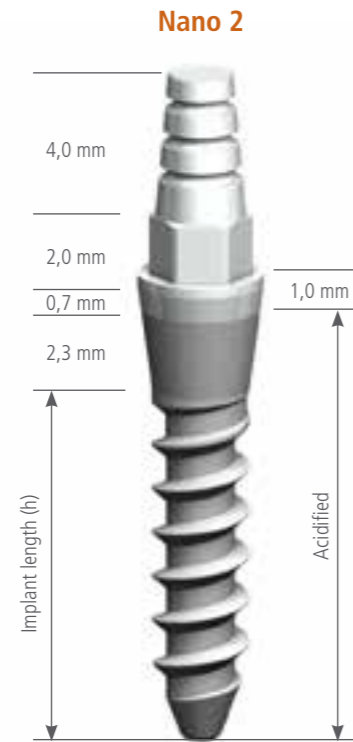


*Implants*



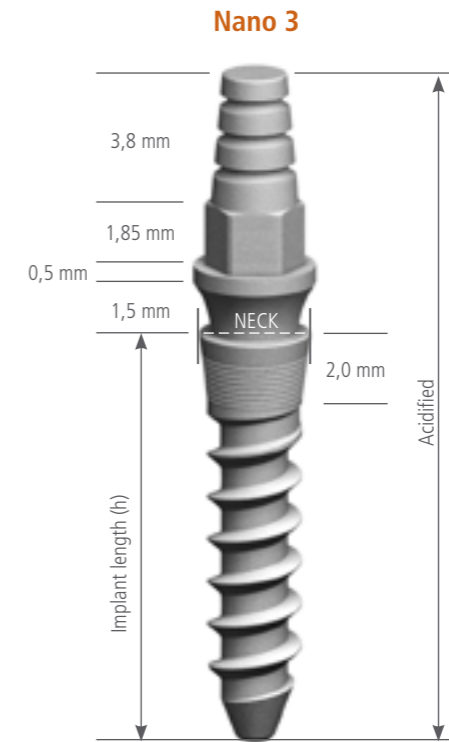
# IMPLUS Nano

for fix prosthesis



# IMPLUS Nano

for fix prosthesis



3.5

Platform



	Implant Ø2,3 mm	Implant Ø2,7 mm	Implant Ø3,2 mm
<b>Thread pitch</b>	0,95 mm	1,25 mm	1,25 mm
<b>Tapered apex</b>	Tapered apex	Tapered apex	Tapered apex
<b>Implant length (h)</b>	<b>Code</b>	<b>Code</b>	<b>Code</b>
10,0 mm	01IN22310	01IN22710	01IN23210
11,5 mm	01IN22311	01IN22711	01IN23211
13,0 mm	01IN22313	01IN22713	01IN23213
16,0 mm	01IN22316	01IN22716	01IN23216

3.5

Platform



	Implant Ø2,3 mm	Implant Ø2,7 mm	Implant Ø3,2 mm
<b>Thread pitch</b>	0,95 mm	1,25 mm	1,25 mm
<b>Tapered apex</b>	Tapered apex	Tapered apex	Tapered apex
<b>Neck</b>	Ø 3.0	Ø 3.2	Ø 3.7
<b>Implant length (h)</b>	<b>Code</b>	<b>Code</b>	<b>Code</b>
10,0 mm	01IN32310	01IN32710	01IN33210
11,5 mm	01IN32311	01IN32711	01IN33211
13,0 mm	01IN32313	01IN32713	01IN33213
16,0 mm	01IN32316	01IN32716	01IN33216



### Packaging

- Packaging in compliance with ISO 11607-1 and 2.
- Sterilization by gamma rays 25 kGy
- Sterility guaranteed for 5 years by waterproof double packaging in airtight sealed glass vial and blister



The castable mount/transfer is included in the packaging.

ONLY FOR CODE 01IN2...

### Features

- Self-threading grade 5 titanium fixture
- Transmucosal one-piece fixture
- Micro-roughened surface (B.O.A.T. treatment)
- Nitrided upper part
- They are suitable for the immediate loading: this means that, at the end of the surgical procedure performed in a single phase, the patient can leave the dental office with a temporary fixed prosthesis.







## Surgical protocol

Recommended first preparation

<b>Tools</b>	<b>Cortical drill</b>
<b>Code</b>	<b>DSP18</b>
Ø(mm)	1,8
Max (rpm)	800

### LEGEND

			
Recommended drill sequence	Optional tools	D3-D4 Soft bone	D1-D2 Compact bone

Surgical protocol step by step for implant Ø 2,3 mm



Tools	Cortical drill	Twist drill UNICA	Countersink
<b>Code</b>	<b>DSP18</b>	<b>DSS18S/L</b>	<b>CSN</b>
Ø(mm)	1,8	1,8	3,5
Max (rpm)	800	800	250

Surgical protocol step by step for implant Ø 3,2 mm



Tools	Cortical drill	Twist drill UNICA	Twist drill UNICA	Countersink	Twist drill UNICA
<b>Code</b>	<b>DSP18</b>	<b>DSS20S/L</b>	<b>DSS26S/L</b>	<b>CSN</b>	<b>DSS26S/L</b>
Ø(mm)	1,8	2,0	2,6	3,5	2,6
Max (rpm)	800	800	500	250	500

Surgical protocol step by step for implant Ø 2,7 mm



Tools	Cortical drill	Twist drill UNICA	Countersink
<b>Code</b>	<b>DSP18</b>	<b>DSS20S/L</b>	<b>CSN</b>
Ø(mm)	1,8	2,0	3,5
Max (rpm)	800	800	250

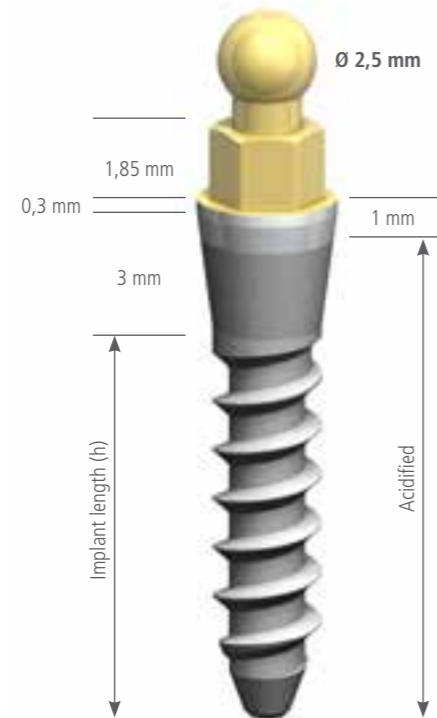




# IMPLUS Nano

for removable prosthesis

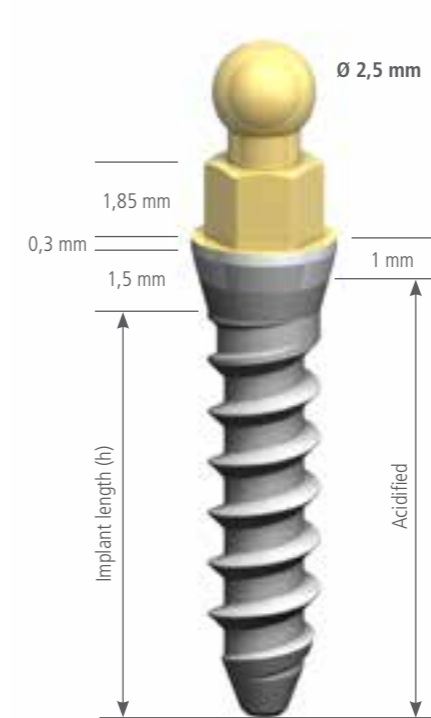
## Nano OVD



# IMPLUS Nano

for removable prosthesis

## Nano OVD short



3.5

Platform



	Implant Ø2,3 mm	Implant Ø2,7 mm	Implant Ø3,2 mm
<b>Thread pitch</b>	0,95 mm	1,25 mm	1,25 mm
<b>Tapered apex</b>	Tapered apex	Tapered apex	Tapered apex
	<b>Normo ball</b>	<b>Normo ball</b>	<b>Normo ball</b>
<b>Implant length (h)</b>	<b>Code</b>	<b>Code</b>	<b>Code</b>
10,0 mm	01IN02310	01IN02710	01IN03210
11,5 mm	01IN02311	01IN02711	01IN03211
13,0 mm	01IN02313	01IN02713	01IN03213
16,0 mm	01IN02316	01IN02716	01IN03216

3.5

Platform



	Implant Ø2,3 mm	Implant Ø2,7 mm	Implant Ø3,2 mm
<b>Thread pitch</b>	0,95 mm	1,25 mm	1,25 mm
<b>Tapered apex</b>	Tapered apex	Tapered apex	Tapered apex
	<b>Normo ball</b>	<b>Normo ball</b>	<b>Normo ball</b>
<b>Implant length (h)</b>	<b>Code</b>	<b>Code</b>	<b>Code</b>
10,0 mm	01INOS2310	01INOS2710	01INOS3210
11,5 mm	01INOS2311	01INOS2711	01INOS3211
13,0 mm	01INOS2313	01INOS2713	01INOS3213
16,0 mm	01INOS2316	01INOS2716	01INOS3216



## Packaging

- Packaging in compliance with ISO 11607-1 and 2.
- Sterilization by gamma rays 25 kGy
- Sterility guaranteed for 5 years by waterproof double packaging in airtight sealed glass vial and blister



## Features

- Self-threading grade 5 titanium fixture
- Transmucosal one-piece fixture
- Micro-roughened surface (B.O.A.T. treatment)
- Nitrided upper part
- Nano OVD implants allow to transform a mobile prosthesis in a fixed removable one.
- They are suitable for the immediate loading: this means that, at the end of the surgical procedure performed in a single phase, the patient can leave the dental office with a temporary fixed prosthesis.
- All mini implants NANO OVD, in particular the shorter lengths, are indicated for multiple insertion – we recommend the insertion of 4 fixtures to obtain an ideal implanto- prosthetic rehabilitation.

All NANO OVD implants are indicated only for the insertion in the lower jaw, between the two mental foramen.

- In case of a reduced mucosal thickness, it is possible to use the Nano OVD short with a neck of only 1.8mm height.
- Nano OVD MICRO implants are recommended in case of very narrow spaces.



# Surgical protocol

Recommended first preparation

<b>Tools</b>	<b>Cortical drill</b>
<b>Code</b>	<b>DSP18</b>
Ø(mm)	1,8
Max (rpm)	800

## LEGEND

Recommended drill sequence	Optional tools	D3-D4 Soft bone	D1-D2 Compact bone

Surgical protocol step by step for implant Ø 2,3 mm



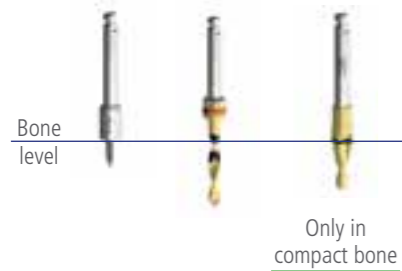
Tools	Cortical drill	Twist drill UNICA	Countersink
<b>Code</b>	<b>DSP18</b>	<b>DSS18S/L</b>	<b>CSN</b>
Ø(mm)	1,8	1,8	3,5
Max (rpm)	800	800	250

Surgical protocol step by step for implant Ø 3,2 mm



Tools	Cortical drill	Twist drill UNICA	Twist drill UNICA	Countersink	Twist drill UNICA
<b>Code</b>	<b>DSP18</b>	<b>DSS20S/L</b>	<b>DSS26S/L</b>	<b>CSN</b>	<b>DSS26S/L</b>
Ø(mm)	1,8	2,0	2,6	3,5	2,6
Max (rpm)	800	800	500	250	500

Surgical protocol step by step for implant Ø 2,7 mm



Tools	Cortical drill	Twist drill UNICA	Countersink
<b>Code</b>	<b>DSP18</b>	<b>DSS20S/L</b>	<b>CSN</b>
Ø(mm)	1,8	2,0	3,5
Max (rpm)	800	800	250



### Nano2 - nano3 laboratory analog

- Titanium gr. 5

3.5

Platform



Code	Packaging
01ANN2	1 piece



Code	Packaging
01ANN3	1 piece

### Castable abutment for cementing

- Castable abutment for cementing  
- Also used like impression transfer for traditional prosthetics procedures.

3.5

Platform



Code	Packaging
01ACLCN3	1 piece



### NanoOVD - nano OVD short laboratory analog

- Titanium gr. 5

Code	Packaging
01ANNO	1 piece



3.5

Platform

### Castable transfer for OVD

Code	Packaging
01ACLCN3	1 piece



3.5

Platform

*Implus nano*  
*Implus nano slim*



# *Implants*

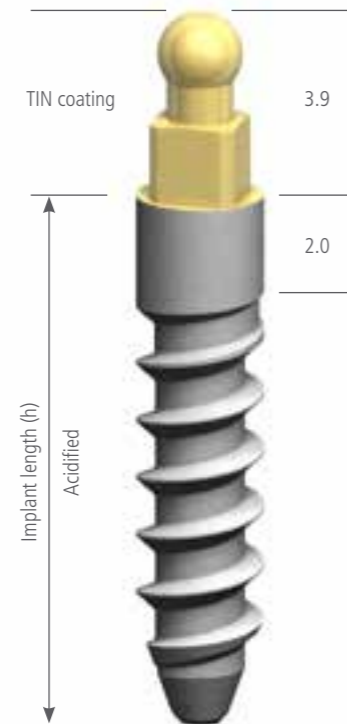


*Implants*



# IMPLUS Nano slim

denture stabilization and fixed prosthesis



2.7

Platform



	Implant Ø2,3 mm	Implant Ø2,7 mm
Thread pitch	0,95 mm	1,25 mm
Tapered apex	Tapered apex	Tapered apex
Implant length (h)	Code	Code
10,0 mm	01INOMSL2310	01INOMSL2710
11,5 mm	01INOMSL2311	01INOMSL2711
13,0 mm	01INOMSL2313	01INOMSL2713

## Packaging

- Packaging in compliance with ISO 11607-1 and 2.
- Sterilization by gamma rays 25 kGy
- Sterility guaranteed for 5 years by waterproof double packaging in airtight sealed glass vial and blister

This new Nano line is ideal for denture stabilization, thanks to the small diameters and the reduced platform. The squared neck and the ball at the implant head are TiN coated, thus increasing wear resistance and strength. The particular "slim" design and the self-threading threads guarantee a perfect primary stability. The complete range of prosthetic components allows a real versatility of this implant: the abutments perfectly engage the squared implant head and are cemented over the implant ball thus converting the implant from removable solution to fixed prosthetic rehabilitation.

\*For overdenture solution the micro ball fits the prosthetic components for overdenture by Rhein83 line.

\* The overdenture with 4 Nano Slim is recommended in the lower jaw, in the mandibular symphysis area within the two mental foramen, always following a correct protocol.

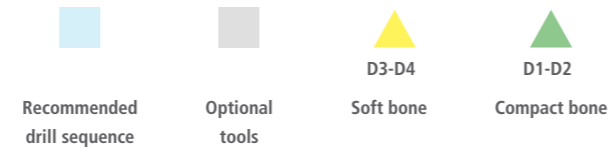




## Surgical protocol

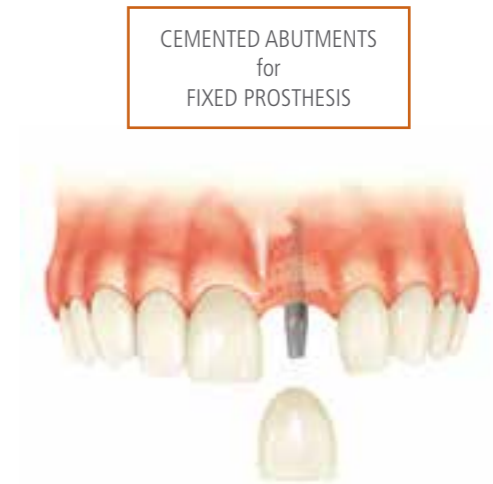
Recommended first preparation

### LEGEND



<b>Tools</b>	<b>Cortical drill</b>
<b>Code</b>	<b>DSP18</b>
Ø(mm)	1,8
Max (rpm)	800

1 implant ↔ 2 solutions



### Surgical protocol step by step for implant Ø 2,3 mm

Platform **2.7**



<b>Tools</b>	<b>Cortical drill</b>	<b>Twist drill UNICA</b>
<b>Code</b>	<b>DSP18</b>	<b>DSS18S/L</b>
Ø(mm)	1,8	1,8
Max (rpm)	800	800

### Surgical protocol step by step for implant Ø 2,7 mm

Platform **2.7**



<b>Tools</b>	<b>Cortical drill</b>	<b>Twist drill UNICA</b>
<b>Code</b>	<b>DSP18</b>	<b>DSS20S/L</b>
Ø(mm)	1,8	2,0
Max (rpm)	800	800

Cemented abutments for fixed prosthesis

Way out for excess cement

Micro ball attachment for overdenture

Small diameters and reduced platform: unique standardized platform Ø 2.7 mm

Particular "slim" design and self-threading threads for perfect primary stability



The one-piece Nano Slim implant with small diameters is the ideal solution for denture stabilization in particular anatomical and physiological conditions.





## Impression transfer

- Tecapeek
- Anti-rotation

2.7

Platform



Code	Packaging
01TRRANS	1 piece



## laboratory analog

- Titanium gr. 5

2.7

Platform



Code	Packaging
01ANNS	1 piece

## Straight abutment

- Titanium gr. 5
- Anti-rotation

2.7

Platform



Code	Packaging
01ANST	1 piece

## Castable abutment

- Adjustable
- Anti-rotation

2.7

Platform



Code	Packaging
01ANSCL	1 piece

## 15° pre-angled abutment

- Titanium gr. 5
- Rotating

2.7

Platform



Code	Packaging
01ANSR15	1 piece








## Prosthetic retentive caps

Only for Nano OVD and NANO slim

### Elastic retentive caps

Teflon caps.  
The different colours correspond to different retention degrees. Packages of 6 pcs.  
NORMO caps: 2,5 mm diameter  
MICRO caps: 1,8 mm diameter

	Colour	Features	NORMO ball	MICRO ball
	green	very elastic	50049PCN	50049PCM
	yellow	extra soft	50060CRNAY	50060CRMAY
	pink	soft	50040CRNSN	50040CRMSN
	white	standard	50040CRN	50040CRM
	black	lab process	50043CLN	50043CLM

### Disposable directional rings



To align and fix the retentive caps in the overdenture.  
0°, 7° and 14° tilting.  
Assorted package (1 of a kind)



	Packaging
50100AD	3 pieces

### Extra resilient caps

Gummy.  
Packages of 6 pcs.  
NORMO caps: 2,5 mm diameter  
MICRO caps: 1,8 mm diameter

	Colour	Features	NORMO ball	MICRO ball
	gold	elastic	50048CON	50048COM
	silver	gummy	50048CAN	50048CAM

### OT Box Classic

Including:  
- 2 upper bars  
- 2 lower bars  
- 4 plastic positioners  
- 4 connectors



	NORMO ball	MICRO ball	Packaging
50153BCN	50153BCM	12 pieces	

### Titan Cap

Nylon caps with titanium internal ring. Long lasting.  
Packages of 2 pcs  
NORMO caps: 2,5 mm diameter  
MICRO caps: 1,8 mm diameter

		NORMO ball	MICRO ball
		50040TCN	50040TCM

### OT Cap Tecno Titan box


Including:  
- 1 OT Cap Tecno bar  
- 2 TiN covered concave spheres  
- 2 Titan Caps  
- 1 transparent inserting tool



	NORMO ball	MICRO ball	Packaging
50090TCN	50090TCM	6 pieces	

### Stainless steel housings

To host the retentive caps. Specific design, with flap top for resin.  
Packages of 2 pcs.  
NORMO caps: 2,5 mm diameter  
MICRO caps: 1,8 mm diameter

		NORMO ball	MICRO ball
		50041CAM Height 3,10 mm	50041CAM Height 2,8 mm

### OT Bar Multiuse

Including:  
- 2 castable bars  
- 8 positioning clips  
- 4 castable boxes  
- 4 pink retentive clips  
- 4 yellow retentive clips  
- 2 connectors



	Packaging
50021OBM	24 pieces

*Orthoscrew*



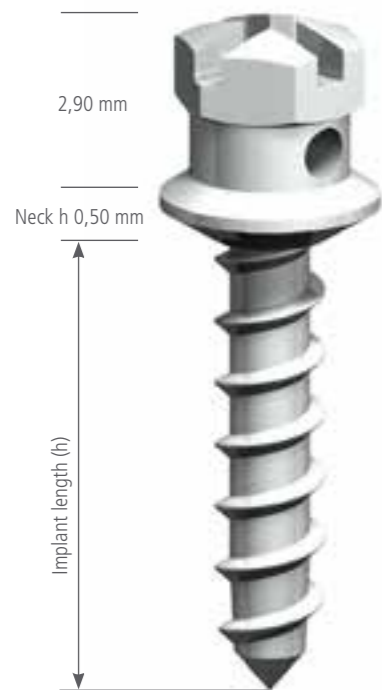
# *Implants*



*Implants*



# ORTHOSCREW



	Implant Ø1,6 mm	Implant Ø1,6 mm
<b>Body</b>	Ø 1,65 mm	Ø 1,65 mm
<b>Hole</b>	Ø 0,8 mm	Ø 0,8 mm
<b>Thread pitch</b>	0,95 mm	0,95 mm
<b>Tapered apex</b>	Tapered apex	Tapered apex
	<b>Neck heigth 0,5 mm</b>	<b>Neck heigth 1,5 mm</b>
	<b>Code</b>	<b>Code</b>
<b>Implant length (h)</b>		
5,0 mm	0110S1605/3	01101605/3
7,0 mm	0110S1607/3	01101607/3
9,0 mm	0110S1609/3	01101609/3
11,0 mm	0110S1611/3	01101611/3

## Packaging

- Packaging in compliance with ISO 11607 - 1 and 2.
- Sterilization by gamma rays 25 kGy
- Sterility guaranteed for 5 years, thanks to the double packaging
- The packaging contains: 3 implants

## Features

- Self-perforating and self-threading micro Implants
- Gr 5 medical titanium
- Not treated surface
- Crosswise cavity: .022" x .028"
- Hex head: 3 x h 1,4 mm
- Temporary disposable micro implants.
- Minimal risk of osseointegration.
- Hexagonal, smooth rounded head for an optimum comfort.
- They allow particularly complex movements, impossible with a conventional approach.



*Surgical*  
*boxes and kits*

## Surgical box and kit for **Tixos** MC

Designed to easily store the surgical instruments. The clear screen printing facilitates the identification of drills and accessories. The handling of the instruments is very easy and comfortable, thanks to the vertical position. The boxes are autoclavable at a temperature of 134°C/274°F at 2,1 bar for 5 minutes. The boxes have been designed to contain all the necessary instruments for the whole surgical protocol for all implant diameters; They may be completed with the desired instruments (optional, to be ordered separately) - see available Kits in the tables on the next page.

**Box Tixos (empty)**  
code 17V64



### COMPLETE KIT for MC : Surgical box 17V64 + instruments set

cod. 01VKCOMPTMC

Ø mm	Ø mm	Ø mm
Round cortical Drill 1,9 11DS19S	Countersink 4,0 01CST40	Countersink 5,0 01CST50
Cortical Drill 1,8 05DSP18	Countersink 6,0 01CST60	Countersink 3,7 01CTCAT37
Twist Drill "Unica" (Pilot Drill), short 2,0 05DSS20S	Bone tap for contra-angle 4,5 01CTCAT45	Friction. connection for c/angle, short 01TLCAF245S
Twist Drill "Unica", short 2,6 05DSS26S	Friction. manual connection, short 01TWF24S	No-touch manual connection, short 01TWMCS
2,8 05DSS28S	Driver, short 1,25 01TLMR12S	Driver, long 1,25 01TLMR12L
3,0 05DSS30S	Extraction tool 01PSEMC	Paralleling pins (2 pcs) 01PN2
3,2 05DSS32S	Manual Digma 01TLM	Ratchet 01TW
3,5 05DSS35S	Alveolar probe 01SAP1	Open wrenches 4,5 01T45
3,8 05DSS38S	Open wrenches 5,0 01T50	Tweezers 01SATT
4,2 05DSS42S		
4,5 05DSS45S		
Stop Kit for Drill "Unica" 1,8 - 2,0 - 2,3 (4 pcs) 05STPKMC1		
Stop Kit for Drill "Unica" 2,6 - 2,8 - 3,0 - 3,2 (4 pcs) 05STPKMC2		
Stop Kit for Drill "Unica" 3,5 - 3,8 - 4,2 (4 pcs) 05STPKMC3		
Extension tool 01TEXT		

### BASIC KIT for MC: Surgical box 17V64 + instruments set

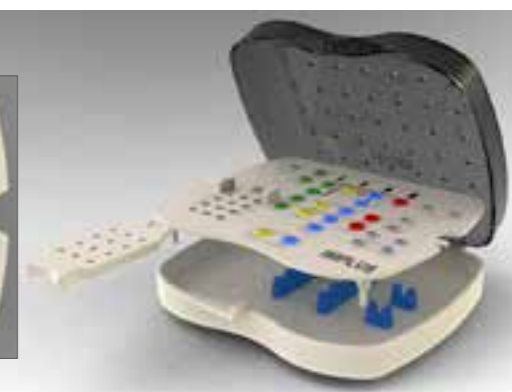
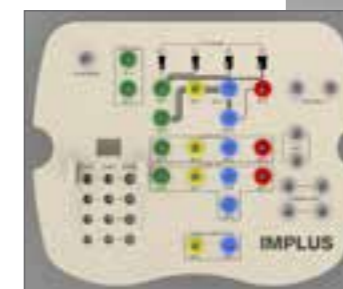
cod. 01VKBASICTMC

Ø mm	Ø mm
Twist Drill "Unica" (Pilot Drill), short 2,0 05DSS20S	Driver, short 01TLMR12S
Twist Drill "Unica", short 2,6 05DSS26S	Manual Digma 1,25 01TLM
2,8 05DSS28S	Ratchet 01TW
3,0 05DSS30S	Extraction tool 01PSEMC
Bone tap for contra-angle 01CTCAT37	Alveolar probe 01SAP1
Friction. connection for c/ angle, short 01TLCAF245S	Open wrench 4,5 01T45
Friction. manual connection, long 01TWF24S	Tweezers 01SATT
No-touch manual connection, short 01TWMCS	

## Surgical box and kit for **IMPLUS** MC

Designed to easily store the surgical instruments. The clear screen printing facilitates the identification of drills and accessories. The handling of the instruments is very easy and comfortable, thanks to the vertical position. The boxes are autoclavable at a temperature of 134°C/274°F at 2,1 bar for 5 minutes. The boxes have been designed to contain all the necessary instruments for the whole surgical protocol for all implant diameters; They may be completed with the desired instruments (optional, to be ordered separately) - see available Kits in the tables on the next page.

**Box Implus (empty)**  
code 17V65



### COMPLETE KIT for MC : Surgical box 17V64 + instruments set

cod. 01VKCOMPMC

Ø mm	Ø mm	Ø mm
Round cortical Drill 1,9 11DS19S	Countersink 4,0 01CS40	Countersink 5,0 01CS50
Cortical Drill 1,8 05DSP18	Countersink 6,0 01CS60	Countersink 3,7 01CTCA37
Twist Drill "Unica" (Pilot Drill), short 2,0 05DSS20S	Bone tap for contra-angle 4,5 01CTCA45	Friction. connection for c/angle, short 01TLCAF245S
Twist Drill "Unica", short 2,6 05DSS26S	Friction. manual connection, short 01TWF24S	No-touch manual connection, short 01TWMCS
2,8 05DSS28S	Driver, short 1,25 01TLMR12S	Driver, long 1,25 01TLMR12L
3,0 05DSS30S	Extraction tool 01PSEMC	Paralleling pins (2 pcs) 01PN2
3,2 05DSS32S	Manual Digma 01TLM	Ratchet 01TW
3,5 05DSS35S	Alveolar probe 01SAP1	Open wrenches 4,5 01T45
3,8 05DSS38S	Open wrenches 5,0 01T50	Tweezers 01SATT
4,2 05DSS42S		
4,5 05DSS45S		
Stop Kit for Drill "Unica" 1,8 - 2,0 - 2,3 (4 pcs) 05STPKMC1		
Stop Kit for Drill "Unica" 2,6 - 2,8 - 3,0 - 3,2 (4 pcs) 05STPKMC2		
Stop Kit for Drill "Unica" 3,5 - 3,8 - 4,2 (4 pcs) 05STPKMC3		
Extension tool 01TEXT		

### BASIC KIT for MC: Surgical box 17V64 + instruments set

cod. 01VKBASICMC

Ø mm	Ø mm
Twist Drill "Unica" (Pilot Drill), short 2,0 05DSS20S	Driver, short 01TLMR12S
Twist Drill "Unica", short 2,6 05DSS26S	Manual Digma 1,25 01TLM
2,8 05DSS28S	Ratchet 01TW
3,0 05DSS30S	Extraction tool 01PSEMC
Bone tap for contra-angle 01CTCA37	Alveolar probe 01SAP1
Friction. connection for c/ angle, short 01TLCAF245S	Open wrench 4,5 01T45
Friction. manual connection, long 01TWF24S	Tweezers 01SATT
No-touch manual connection, short 01TWMCS	



## Surgical box and kit for **Tixos** internal and external hex.

Designed to easily store the surgical instruments. The clear screen printing facilitates the identification of drills and accessories. The handling of the instruments is very easy and comfortable, thanks to the vertical position. The boxes are autoclavable at a temperature of 134°C/274°F at 2,1 bar for 5 minutes. The boxes have been designed to contain all the necessary instruments for the whole surgical protocol for all implant diameters; They may be completed with the desired instruments (optional, to be ordered separately) - see available Kits in the tables on the next page.

**Box Tixos (empty)  
code 17V64**



### COMPLETE KIT for Tixos: Surgical box 17V64 + instruments set

cod. 01VKCOMPT

Ø mm	Ø mm	Ø mm
Round cortical Drill	1,9 11DS19S	Countersink
Cortical Drill	1,8 05DSP18	4,0 01CST40
Twist Drill "Unica" (Pilot Drill), short	2,0 05DSS20S	5,0 01CST50
	2,3 05DSS23S	6,0 01CST60
	2,6 05DSS26S	Bone tap for contra-angle
	2,8 05DSS28S	3,3 01CTCAT33
Twist Drill "Unica", short	3,0 05DSS30S	3,7 01CTCAT37
	3,2 05DSS32S	4,5 01CTCAT45
	3,5 05DSS35S	Connection for contra-angle, long
	3,8 05DSS38S	01TLCA245L
	4,2 05DSS42S	Friction. connection for c/angle, short
	4,5 05DSS45S	01TLCAF245S
Stop Kit for Drill "Unica" 1,8 - 2,0 - 2,3 (4 pcs)	05STPK1	Manual connection, long
Stop Kit for Drill "Unica" 2,6 - 2,8 - 3,0 - 3,2 (4 pcs)	05STPK2	01TW24L
Stop Kit for Drill "Unica" 3,8 - 3,8 - 4,2 (4 pcs)	05STPK3	Friction. manual connection, short
Extension tool	01TEXT	01TWF24S
		Driver, short
		1,25 01TLMR12S
		Driver, long
		1,25 01TLMR12L
		Paralleling pins (2 pcs)
		01PN2
		Manual Digma
		01TLM
		Ratchet
		01TW
		Alveolar probe
		01SAP1
		Open wrenches
		01T45
		01T50
		Tweezers
		01SATT

### BASIC KIT for Tixos: Surgical box 17V65 + instruments set

cod. 01VKBASICT

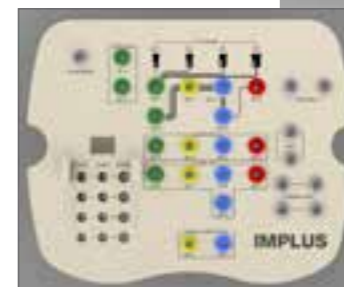
Ø mm	Ø mm	Ø mm
Twist Drill "Unica" (Pilot Drill), short	2,0 05DSS20S	Driver, short
	2,6 05DSS26S	1,25 01TLMR12S
Twist Drill "Unica", short	2,8 05DSS28S	Manual Digma
	3,0 05DSS30S	01TLM
Bone tap for contra-angle	01CTCAT37	Ratchet
Friction. connection for c/angle, short	01TLCAF245S	01TW
Manual connection, long	01TW24L	Alveolar probe
Friction. manual connection, short	01TWF24S	01SAP1
		Open wrench
		4,5 01T45
		Tweezers
		01SATT



## Surgical box and kit for **IMPLUS** internal and external hex.

Designed to easily store the surgical instruments. The clear screen printing facilitates the identification of drills and accessories. The handling of the instruments is very easy and comfortable, thanks to the vertical position. The boxes are autoclavable at a temperature of 134°C/274°F at 2,1 bar for 5 minutes. The boxes have been designed to contain all the necessary instruments for the whole surgical protocol for all implant diameters; They may be completed with the desired instruments (optional, to be ordered separately) - see available Kits in the tables on the next page.

**Box Implus (empty)  
code 17V65**



### COMPLETE KIT for Implus: Surgical box 17V65 + instruments set

cod. 01VKCOMP

Ø mm	Ø mm	Ø mm
Round cortical Drill	1,9 11DS19S	Bone tap, contra-angle or manual
Cortical Drill	1,8 05DSP18	3,3 01CTCA33/CT33
Twist Drill "Unica" (Pilot Drill), short	2,0 05DSS20S	3,7 01CTCA37/CT37
	2,3 05DSS23S	4,5 01CTCA45/CT45
	2,6 05DSS26S	5,0 01CTCA50/CT50
	2,8 05DSS28S	5,5 01CTCA55/CT55
Twist Drill "Unica", short	3,2 05DSS32S	Connection for contra-angle
	3,8 05DSS38S	01TLCA245S
	4,2 05DSS42S	Frictioning connection for contra-angle
	4,8 05DSS48S	01TLCAF245S
Stop Kit for Drill "Unica" 1,8 - 2,0 - 2,3 (4 pcs)	05STPK1	Manual connection
Stop Kit for Drill "Unica" 2,6 - 2,8 - 3,0 - 3,2 (4 pcs)	05STPK2	01TW24S
Stop Kit for Drill "Unica" 3,8 - 3,8 - 4,2 (4 pcs)	05STPK3	Frictioning manual connection
Extension tool	01TEXT	01TWF24S
Countersink	3,5 01CS35	Driver, short
	4,0 01CS40	1,25 01TLMR12S
	5,0 01CS5	Driver, long
	6,0 01CS60	1,25 01TLMR12L
		Paralleling pins (2 pcs)
		01PN2
		Manual Digma
		01TLM
		Ratchet
		01TW
		Alveolar probe
		01SAP1
		Open wrenches
		4,5 01T45
		5,0 01T50
		Tweezers
		01SATT

### BASIC KIT for Implus: Surgical box 17V65 + instruments set

cod. 01VKBASIC

Ø mm	Ø mm	Ø mm
Twist Drill "Unica" (Pilot Drill), short	2,0 05DSS20S	Driver, short
	2,6 05DSS26S	1,25 01TLMR12S
Twist Drill "Unica", short	3,2 05DSS32S	Manual Digma
	3,8 05DSS38S	01TLM
Bone tap, manual	01CT37	Ratchet
Friction. connection for c/angle, short	01TLCAF245S	01TW
Manual connection, long	01TW24L	Alveolar probe
Friction. manual connection, short	01TWF24S	01SAP1
		Open wrench
		4,5 01T45
		Tweezers
		01SATT





## Surgical box and kit for **Tixos Short**

Designed to easily store the surgical instruments. The clear screen printing facilitates the identification of drills and accessories. The handling of the instruments is very easy and comfortable, thanks to the vertical position. The boxes are autoclavable at a temperature of 134°C/274°F at 2,1 bar for 5 minutes. The boxes have been designed to contain all the necessary instruments for the whole surgical protocol for all implant diameters; They may be completed with the desired instruments (optional, to be ordered separately) - see available Kits in the tables on the next page.

**Box Tixos Short (empty)**  
code 17V66



**BASIC KIT for Tixos Short:** Surgical box 17V66 + instruments set

cod. 01VKBASICTS

Ø mm		Ø mm		
<b>Cortical Drill</b>	1,8	05DSP18	<b>Extension tool</b>	01TEXT
<b>Twist Drill "Unica" (Pilot Drill), short</b>	2,0	05DSS20S	<b>Bone tap for contra-angle</b>	01CTCATS50
<b>Twist Drill "Unica", short</b>	2,6	05DSS26S	<b>Friction. connection for c/angle, short</b>	01TLCAF245S
	3,2	05DSS32S	<b>Manual connection, long</b>	01TW24L
	3,8	05DSS38S	<b>Friction. manual connection, short</b>	01TWF24S
	4,2	05DSS42S	<b>Driver, short</b>	1,25 01TLMR12S
<b>Stop Kit for Drill "Unica" 1,8 to 4,2 (3 pcs)</b>		05STPK4	<b>Ratchet</b>	01TW

## Surgical box for conical drills

Code	L	Total length
01DSC408	8	26,15
01DSC410	10	26,95
01DSC411	11,5	29,45
01DSC413	13	30,95
01DSC416	16	33,95
01DSC508	8	26,3
01DSC510	10	28
01DSC511	11,5	29,6
01DSC513	13	31,1
01DSC516	16	34,1
01DSC608	8	26,6
01DSC610	10	28,4
01DSC611	11,5	29,9
01DSC613	13	31,4

**Box Conical Drills (empty)**  
code 17V72

The conical drills must be purchased separately.



*Note*

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*Surgical*  
*instruments*

## Preparation drills

### Tissue punches

Titanium gr. 5

Code	Drill Ø
01MTCA45	Ø4,5



### Tissue punches

Titanium gr. 5

Code	Drill Ø
01MTCA460	Ø6



### Round drill

Surgical steel

Code	Drill Ø
11DS19S	Ø1,9



### Cortical drill

Surgical steel.  
Used to precisely drill the cortical bone.

Code	Drill Ø
05DSP18	Ø1,8
05DSP	Ø2,3



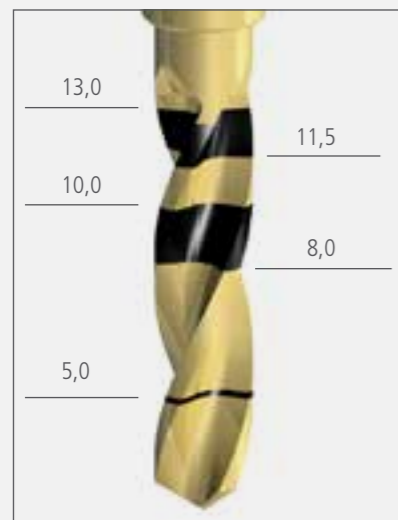
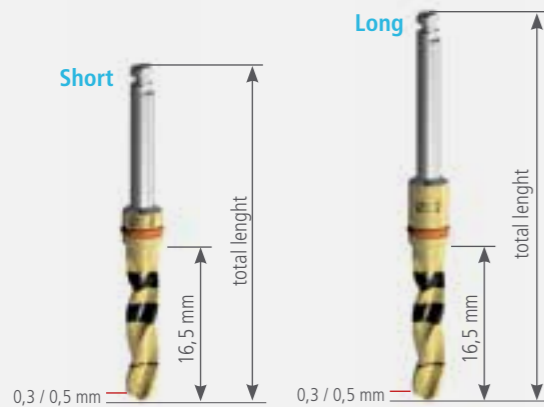
## "Unica" Twist drills

The "Unica" drills can be used for the whole range of Leader Italia implants.

Surgical steel, TiN coated. Working length: 16.5 mm. Max. use: 10 site preparations.

### Use of Twist drills with stops

They are used with the stops applied at the desired length, matching the implant one. They are also laser marked, so that they can be used also without stops.



Code	Drill total Length	Drill Ø
05DSS18S 05DSS18L	34,5 mm 40,5 mm	Ø1,8
05DSS20S 05DSS20L	34,5 mm 40,5 mm	Ø2,0
05DSS23S 05DSS23L	34,5 mm 40,5 mm	Ø2,3
05DSS26S 05DSS26L	34,5 mm 40,5 mm	Ø2,6
05DSS28S 05DSS28L	34,5 mm 40,5 mm	Ø2,8
05DSS30S 05DSS30L	34,5 mm 40,5 mm	Ø3,0
05DSS32S 05DSS32L	34,5 mm 40,5 mm	Ø3,2
05DSS35S 05DSS35L	34,5 mm 40,5 mm	Ø3,5
05DSS38S 05DSS38L	34,5 mm 40,5 mm	Ø3,8
05DSS42S 05DSS42L	34,5 mm 40,5 mm	Ø4,2
05DSS45S	34,5 mm	Ø4,5
05DSS48S 05DSS48L	34,5 mm 40,5 mm	Ø4,8

Use without stop

Use without stop

NOTE We recommend to replace the o-rings frequently, since they are susceptible to wear due to frequent sterilization cycles.

## Calibrated stops

Code	Color	Length	for Drill Ø
05STP182005	Grey	5 mm	Ø1,8 - 2,0 - 2,3
05STP182008	Grey	8 mm	Ø1,8 - 2,0 - 2,3
05STP182010	Grey	10 mm	Ø1,8 - 2,0 - 2,3
05STP182011	Grey	11,5 mm	Ø1,8 - 2,0 - 2,3
05STP182013	Grey	13 mm	Ø1,8 - 2,0 - 2,3

Code	Color	Length	for Drill Ø
05STP263205	Yellow	5 mm	Ø2,6 - 2,8 - 3,0 - 3,2
05STP263208	Yellow	8 mm	Ø2,6 - 2,8 - 3,0 - 3,2
05STP263210	Yellow	10 mm	Ø2,6 - 2,8 - 3,0 - 3,2
05STP263211	Yellow	11,5 mm	Ø2,6 - 2,8 - 3,0 - 3,2
05STP263213	Yellow	13 mm	Ø2,6 - 2,8 - 3,0 - 3,2

Code	Color	Length	for Drill Ø
05STP384205	Green	5 mm	Ø3,5 - 3,8 - 4,2 - 4,8
05STP384208	Green	8 mm	Ø3,5 - 3,8 - 4,2 - 4,8
05STP384210	Green	10 mm	Ø3,5 - 3,8 - 4,2 - 4,8
05STP384211	Green	11,5 mm	Ø3,5 - 3,8 - 4,2 - 4,8
05STP384213	Green	13 mm	Ø3,5 - 3,8 - 4,2 - 4,8

Code	Stop Length	for Drill Ø	Packaging
05STPK1	8-10-11,5-13 mm	Ø1,8 - 2,0 - 2,3	4 pieces

Code	Stop Length	for Drill Ø	Packaging
05STPK2	8-10-11,5-13 mm	Ø2,6 - 2,8 - 3,0 - 3,2	4 pieces

Code	Stop Length	for Drill Ø	Packaging
05STPK3	8-10-11,5-13 mm	Ø3,5 - 3,8 - 4,2 - 4,8	4 pieces

Code	Stop Length	for Drill Ø	Packaging
05STPK4	5 mm	Ø1,8 to Ø4,2	3 pieces

## Calibrated stops for MC implants only

Code	Color	Length	for Drill Ø
05STP182008	Grey	8 mm	Ø1,8 - 2,0 - 2,3
05STP182010	Grey	10 mm	Ø1,8 - 2,0 - 2,3
05STP182011	Grey	11,5 mm	Ø1,8 - 2,0 - 2,3
05STP182013	Grey	13 mm	Ø1,8 - 2,0 - 2,3

Code	Color	Length	for Drill Ø
05STP263208	Yellow	8 mm	Ø2,6 - 2,8 - 3,0 - 3,2
05STP263210	Yellow	10 mm	Ø2,6 - 2,8 - 3,0 - 3,2
05STP263211	Yellow	11,5 mm	Ø2,6 - 2,8 - 3,0 - 3,2
05STP263213	Yellow	13 mm	Ø2,6 - 2,8 - 3,0 - 3,2

Code	Color	Length	for Drill Ø
05STP384208	Green	8 mm	Ø3,5 - 3,8 - 4,2 - 4,8
05STP384210	Green	10 mm	Ø3,5 - 3,8 - 4,2 - 4,8
05STP384211	Green	11,5 mm	Ø3,5 - 3,8 - 4,2 - 4,8
05STP384213	Green	13 mm	Ø3,5 - 3,8 - 4,2 - 4,8

Code	Stop Length	for Drill Ø	Packaging
05STPKMC1	8-10-11,5-13 mm	Ø1,8 - 2,0 - 2,3	4 pieces

Code	Stop Length	for Drill Ø	Packaging
05STPKMC2	8-10-11,5-13 mm	Ø2,6 - 2,8 - 3,0 - 3,2	4 pieces

Code	Stop Length	for Drill Ø	Packaging
05STPKMC3	8-10-11,5-13 mm	Ø3,5 - 3,8 - 4,2 - 4,8	4 pieces

## Step drills

Surgical steel, TiN coated. They are designed to facilitate the transition of the Twist Drills from the smaller diameter to the next one. Working length: 7,0 mm.

Code	Drill Ø
05DSP2026	Ø2,0/2,6
05DSP2632	Ø2,6/3,2
05DSP3238	Ø3,2/3,8

## Bone drill

Max. speed 30 rpm

Surgical steel, TiN coated. It is used at the second stage surgery. This drill removes bone in excess over the implant platform, considering that the fixture must be inserted 1 mm under the bone crest.



Code	Drill Ø
05DBP38MC	Ø3,8

Only for **MC**

## Countersinks for Tixos and Tixos MC

Gr. 5 titanium.

They are essential to avoid creating pressure at the cortical bone during the insertion of the implant neck.



Code	Platform Ø	Implant Type
01CST40	Ø4,1	Cylindrical Internal Hex
01CSXT33	Ø4,1	Cylindrical External Hex
01CSXT40	Ø4,1	Cylindrical External Hex
01CST50	Ø5,0	Cylindrical Internal Hex
01CST60	Ø6,0	Cylindrical Internal Hex
01CSXTS37	Ø4,1	Short implant

## Bone taps for Tixos and Tixos MC

Gr. 5 titanium. Used to facilitate the screwing of the implant in compact bone.



Code	Ø
01CTCAT33	Ø3,3
01CTCAT33	Ø3,75
01CTCAT45	Ø4,5
01CTCATS37	Ø3,75 (Short Implant)
01CTCATS50	Ø5,0 (Short Implant)

## Countersinks for IMPLUS and IMPLUS MC

Gr. 5 titanium.

They are essential to avoid creating pressure at the cortical bone during the insertion of the implant neck.



Code	Platform Ø	Implant Type
01CS35	Ø3,5	Cylindrical Internal Hex
01CSX33	Ø3,5	Cylindrical External Hex
01CS40	Ø4,0	Cylindrical / Tapered Internal Hex
01CSX40	Ø4,1	Cylindrical / Tapered External Hex
01CS5	Ø5,0	Cylindrical / Tapered
01CS60	Ø6,0	Cylindrical / Tapered

## Bone taps for IMPLUS and IMPLUS MC

Gr. 5 titanium. Used to facilitate the screwing of the implant in compact bone.

### Contra angle

Code	Ø
01CTCA33	Ø3,3
01CTCA37	Ø3,75
01CTCA45	Ø4,5
01CTCA50	Ø5,0
01CTCA55	Ø5,5

### Manuais

Code	Ø
01CT33	Ø3,3
01CT37	Ø3,75
01CT45	Ø4,5
01CT50	Ø5,0
01CT55	Ø5,5

## Countersink for Nano

Gr. 5 titanium.

They are essential to avoid creating pressure at the cortical bone during the insertion of the implant neck.



Code	Platform Ø	Implant Type
01CSN	Ø3,5	NANO

## Conical drills

Platform Ø 4,0			
Code	L	Total length	
01DSC408	8	26,15	
01DSC410	10	26,95	
01DSC411	11,5	29,45	
01DSC413	13	30,95	
01DSC416	16	33,95	

Platform Ø 5,0			
Code	L	Total length	
01DSC508	8	26,3	
01DSC510	10	28	
01DSC511	11,5	29,6	
01DSC513	13	31,1	
01DSC516	16	34,1	

Platform Ø 6,0			
Code	L	Total length	
01DSC608	8	26,6	
01DSC610	10	28,4	
01DSC611	11,5	29,9	
01DSC613	13	31,4	

NOTE \*\*Available the empty conical drills box code 17V72.



## Bone taps accessories

Gr. 5 titanium  
To use the bone taps with the manual ratchet code 01TW.



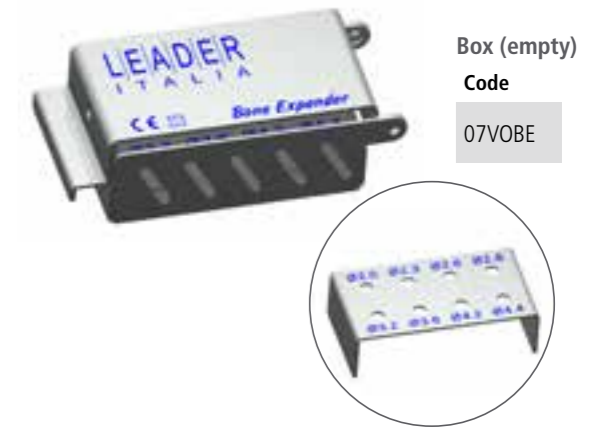
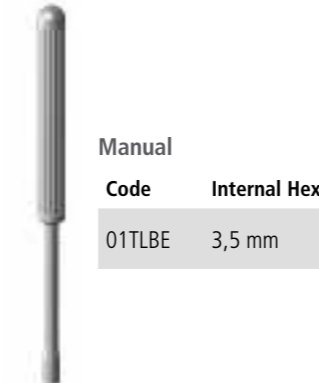
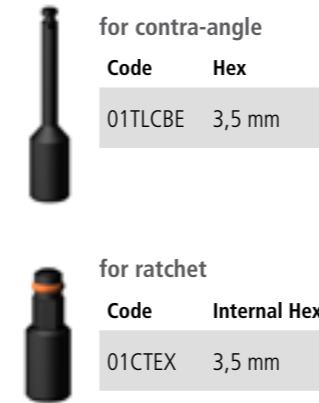
## For all drills and mechanical connectors

Surgical steel, DLC coated. For all drills.

### Extension tool

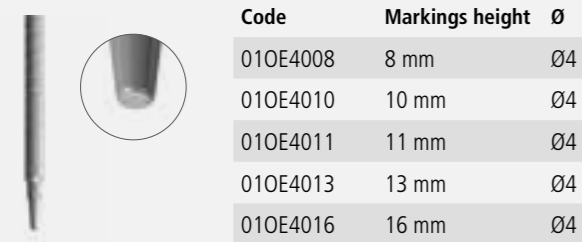


## Bone expander accessories



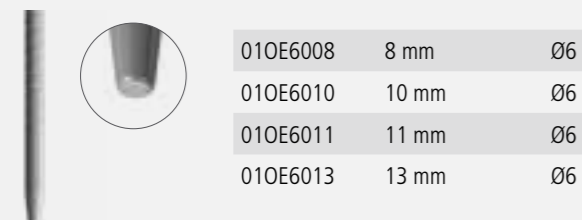
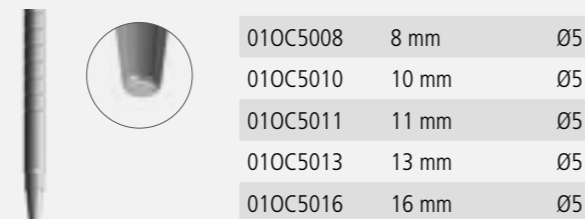
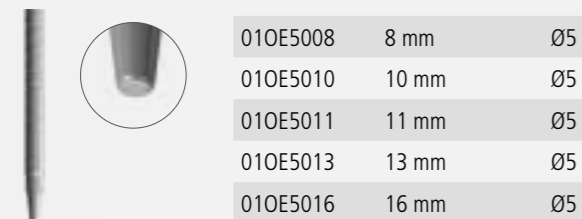
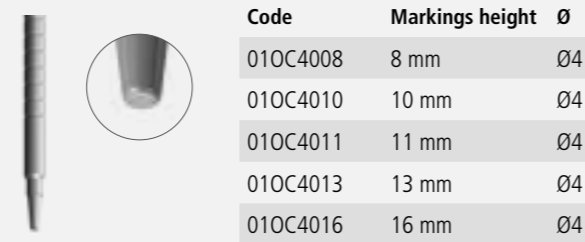
## Expanding osteotomes

With convex end, they are used for ridge expansion.  
Gr. 5 titanium. Each instrument works at the marked depth.



## Compacting osteotomes

With concave end, they are used for mini sinus lift.  
Gr. 5 titanium. Each instrument works at the marked depth.



## Bone expander

Gr. 5 titanium, nitrided. Working length (depth) 13 mm.  
The black, well visible markings, indicate the working depth.



### Atraumatic tapered and round tip





## Trephines

For intraoral bone extraction and/or for osseointegrated implant removal.  
In surgical steel. Thanks to lateral holes they allow the easy extraction of the obtained bone core.

	Code	Markings height	Ø
	11DSTB368/13	8 - 13 mm	Ø3,6 / 4,6 mm
	11DSTB3615/18	15 - 18 mm	
	11DSTB418/13	8 - 13 mm	Ø4,1 / 5,1 mm
	11DSTB4115/18	15 - 18 mm	
	11DSTB518/13	8 - 13 mm	Ø5,1 / 6,1 mm
	11DSTB5115/18	15 - 18 mm	
	11DSTB618/13	8 - 13 mm	Ø6,1 / 7,1 mm
	11DSTB6115/18	15 - 18 mm	



## Connectors (for surgery and prosthetic)

**FOR RATCHET**  
In steel, DLC coated. Hex section.

Code	Total Length	Hex
01TW12L	23 mm	1,25 mm

Code	Total Length	Hex
01TW16L	22 mm	1,6 mm

for tapered screw CODE: 01PSF/01PSXF

**FOR CONTRA-ANGLE**  
In steel, DLC coated. Hex section.

Code	Total Length	Hex
01TLCA125S	22 mm	2,45 mm
01TLCA125L	27 mm	2,45 mm

Code	Total Length	Hex
01TLCA16L	27 mm	2,45 mm

for tapered screw CODE: 01PSF/01PSXF

## Universal screwdrivers

In steel, DLC coated. Hex section, rotating head.

for frictioning passing screw\*

Code	Total Length	Hex.
01TLMR12S	23,1 mm	1,25 mm
01TLMR12L	28,1 mm	1,25 mm



Code	Total Length	Hex.
01TLMR16S	25,6 mm	1,6 mm

\* code: 01PSF/01PSXF

## Connectors and extractor for MC implants only

**FOR RATCHET**  
In steel, DLC coated. Hex section.

Code	Total Length	Hex
01TWMCS	18 mm	2,16 mm
01TWMCL	25 mm	2,16 mm

**FOR CONTRA-ANGLE**  
In steel, DLC coated. Hex section.

Code	Total Length	Hex
01TLCAMCS	22,5 mm	2,16 mm
01TLCAMCL	27,5 mm	2,16 mm

**EXTRACTOR FOR MANUAL DIGMA OR BY HAND**

Code
01PSEMC

Connectors to use directly into the implant's hexagonal connection

## Connectors (for implants)

**FOR RATCHET**  
In steel, DLC coated. Hex section.

Code	Total Length	Hex
01TW24XS	12,5 mm	2,45 mm
01TW24S	18 mm	2,45 mm
01TW24L	25 mm	2,45 mm

Code	Total Length	Hex
01TWF24XS	12,5 mm	2,45 mm
01TWF24S	18 mm	2,45 mm
01TWF24L	25 mm	2,45 mm

frictioning by a special metal o-ring

**FOR CONTRA-ANGLE**  
In steel, DLC coated. Hex section.

Code	Total Length	Hex
01TLCA245S	22,5 mm	2,45 mm
01TLCA245L	27,5 mm	2,45 mm

Code	Total Length	Hex
01TLCAF245S	22,5 mm	2,45 mm
01TLCAF245L	27 mm	2,45 mm

frictioning by a special metal o-ring

## Connectors (for Nano / Nano slim)

**FOR RATCHET**  
In steel, DLC coated.

Code	Total Length	Hex / CH
01TWN18	18 mm	CH. 1,85 mm(*)
01TWN25	19 mm	Hex. 2,5

\* for nano slim only

**FOR CONTRA-ANGLE**  
In steel, DLC coated.

Code	Total Length	Hex / CH
01TLCAN18	24,5 mm	CH. 1,85 mm(*)
01TLCAN25	24,5 mm	Hex. 2,5

\* for nano slim only

The connectors CODE 01TWN25 / 01TLCAN25 are also use for insertion of orthoscrew.



## Accessories



### TWEEZERS



**Code**  
01SATT

### ALVEOLAR PROBE



**Code**  
01SAP1

### OPENWRENCHES



**Code**  
01T45  
01T50  
01T60

To be used with driver Ø 1,25 for mount-transfer removal, avoiding implant trauma

### DRILL



**Code**  
01DS10S

In steel, is used to prepare the surgical site of grid screw or fixing pins. It is also use to prepare the hole for orthoscrew. Ø 1,0 mm - Length 2,7 mm

### DRILL



**Code**  
11DS12S

In steel, is used to prepare the hole for orthoscrew.

### INSERTION TOOL



**Code** **Length**  
01PNS 6 cm  
01PNL 9 cm

Gr. 5 titanium



### MANUAL DIGMA



**Code**  
01TLM

### TITANIUM TANKS



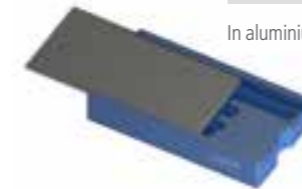
**Code** **Description**  
01SAT1 Empty  
01SAT2 2 holes

### PARALLELING PIN (Ø2/3,2 mm)



**Code** **Pakaging**  
01PN2 2 pieces  
01PN4 4 pieces

### BOX FOR MEMBRANE FIXING SCREWS AND PINS



**Code**  
01V50

In aluminium, autoclavable.

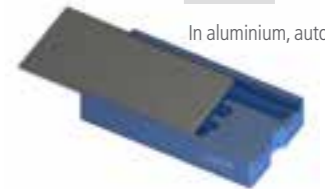
### SCREW DRIVER



**Code**  
01TLO

Only for orthoscrew.

### BOX FOR ORTHOSCREW



**Code**  
01V71

In aluminium, autoclavable.

### RATCHET



**Code**  
01TW

### TORQUE RATCHET for Newton torque control device



**Code**  
01TW1

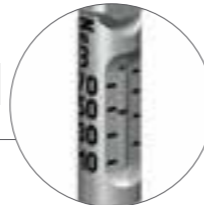
See Newton torque control device.

### ADJUSTABLE TORQUE RATCHET



**Code**  
01TW2

- Surgical  
- Prosthetic  
- Torque range 10 to 70 Ncm



## Surgical accessories

### TITANIUM GRID



**Code**  
01SAT603

In gr 1 titanium, it is ideal to support the membrane in guided regeneration. Dimensions 60x30 cm. Thickness 0.2 mm. Holes Ø 1,5 mm. Pitch 5 mm

### GRID SCREW



Code	Length	Hex	Packaging
01PN1455/5	5 mm	1,25 mm	5 pieces
01PN1457/5	7 mm	1,25 mm	5 pieces
01PN1459/5	9 mm	1,25 mm	5 pieces
01PN14511/5	11 mm	1,25 mm	5 pieces
01PN14513/5	13 mm	1,25 mm	5 pieces
01PN145/5	all	1,25 mm	5 pieces
01PN1505/5	5 mm	1,25 mm	5 pieces
01PN1507/5	7 mm	1,25 mm	5 pieces
01PN1509/5	9 mm	1,25 mm	5 pieces
01PN1511/5	11 mm	1,25 mm	5 pieces
01PN1513/5	13 mm	1,25 mm	5 pieces
01PN15/5	all	1,25 mm	5 pieces

### FIXING PINS



Code	Length	Pakaging
01PN2527	2,7 mm	5 pieces
01PN2531	3,1 mm	5 pieces
01PN2535	3,5 mm	5 pieces

In gr. 5 titanium, are used to fix membranes. Body Ø 0,55 mm - Head Ø 2,5 mm

## Tips for instruments

### After use:

- In order to remove blood residual tools should be cleaned with warm water and a soft bristles toothbrush to prevent surface scratches.
- Place drills into a disinfectant broad-spectrum PH neutral, non- corrosive liquid for dental use (which does not contain chlorine and salt).
- Do not leave drills submerged beyond the time recommended by the manufacturer, because it may cause corrosion.
- Then, place the parts in an ultrasonic device with a suitable liquid.
- When the cycle is finished, remove the drills from the tank and rinse with distilled water; after removing the excessive water, soak in denatured ethyl alcohol for a while.
- Dry carefully.
- Bag drills one by one and sterilize in autoclave (134°C at 2,1 bar for 5 minutes, 121°C at 1,1 bar for 20 minutes).

NOTE: Do not sterilize together instruments made of different materials (for example Titanium and Steel).



## Features of the abutment/implant connection

### Friction in the prosthetic screws could be useful ?

Friction creates a resisting force opposing to the relative sliding of two bodies. It is a function of the pressure keeping them together by a force perpendicular to the surfaces of contact. It is proportional to a friction coefficient, depending on the materials in contact. It prevents the relative sliding of two bodies.

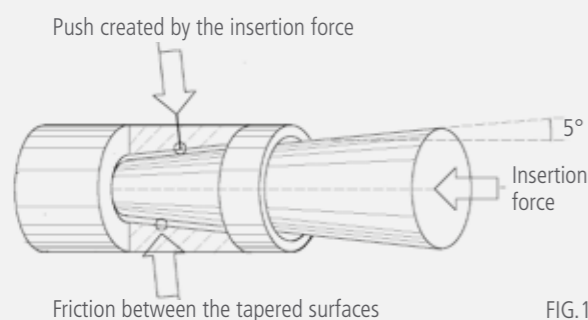
### Why does the screw loosen? Because the friction braking effect is missing!

The loss of contact between the two surfaces (abutment screw and implant internal threading) occurs when an external force is higher than the pre-load set used during abutment fixing at proper torque. In such a case, the force will cause the loss of the contact between the thread walls of the screw and the implant. It works by a screw lengthening bigger than the one caused by the pre-load. When the force is finished, the contact between abutment and implant head is lost. The screw is now free to loosen under the effect of vibrations, then the abutment and the relative crown begin to move.

### The "Morse" effect (Fig. 1)

Inserting with pressure an element with a tapered external surface in a corresponding female element that has a hole with an identical tapered design, the friction between the two tapered surfaces occurs. It locks the male cone in the female one. This locking remains efficient also when the insertion force applied is over: this is the "Morse" effect. A suitable tapering of the cones guarantees such "locking" that will become a safe and natural engaging system for the screw that connects the abutment to the implant.

### The connection with "self-locking tapered screw"

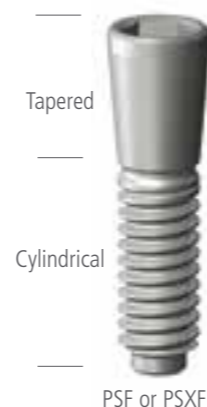
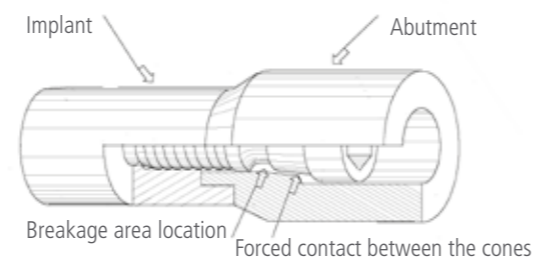


### Advantages of the tapered screw

- High mechanical stability
- Usable with all types of implants
- The thread and the screw-in cavity of the head are dimensioned to resist to torque loads of more than 50Ncm
- Definite breakage area in case of accidental breakage
- Limited costs of the system

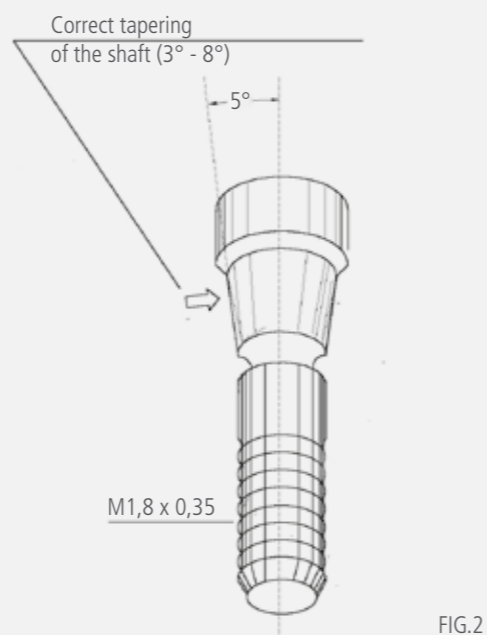
### How the auto-locking Morse effect is formed on the tapered screw

Obviously, in case occasional forces charged the screw with a higher load than its resistance, the screw would break. To face such event, a specific breakage area has been foreseen well outside the implant thread. It allows an easy extraction of the broken piece remained in the implant (Fig.3).



### The screw with self-locking tapered head

The screw with self-locking tapered head is different from the traditional screw because of the tapered design of part of its vertical surface. Moreover, the abutment has a seat with the same tapering in the hole for the connection screw. The taper of the cones is 5° (Fig. 2). The screw must be fixed at 35 Ncm. The tests carried out did not report any screw breakage, even when applying a torque up to 90 Ncm. The auto-locking tapered screw has an elasticity limit of 950 N. This occurs because the screw has a diameter 1.8 mm and is made of grade 5 titanium. Consequently, the screw can withstand axial loads up to its elastic limit without permanent deformations and loosening.



## Newton

### Torque control device.

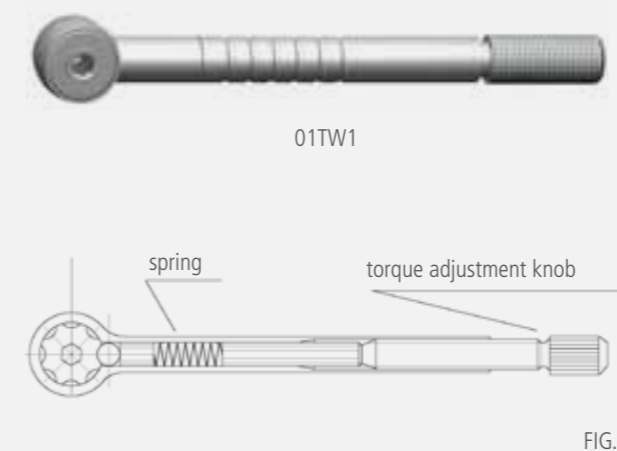
#### 01ZNW

- The package includes:
- Newton torque control device
  - Dynamometric wrench (code 01TW1),
  - 2 steel connections (code 01TW12L - 01TW16L)

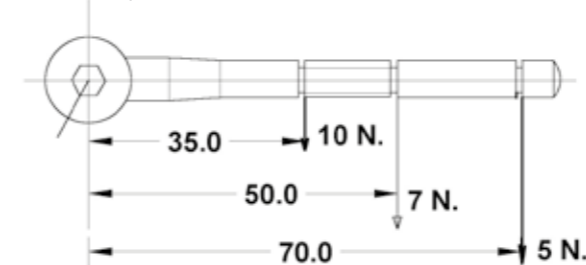


### Tightening screws

All dynamometric wrenches can lose their adjustment during sterilization and lubrication cycles, so they require to be adjusted again before use, in order to avoid to apply a wrong torque. To register the wrench precisely to the desired torque, the professionals would need a proper device dedicated to this operation.



Rotation centre (screw axis/shaft) FIG.2

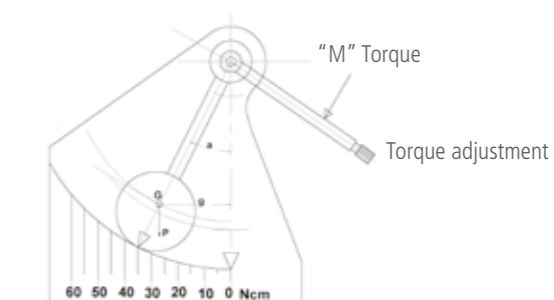


1 Kg = 9.81 Newton  
Torque = Tightening force obtained by force (weight) x distance from the rotation axis/shaft  
In all the three described cases, the applied torque is 350 Nmm = 35 Ncm

**NEWTON torque control system** offers the clinician one fundamental advantage compared to other devices: with just one dynamometric wrench (and a lower cost) the dentist can decide to tighten the screw in a range of 5 - 60 Ncm, simply rotating the torque adjustment knob, using the graduated support of Newton device.

**NEWTON torque control device** enables the ratchet setting to any value between 10 and 50 Ncm; it guarantees high precision since it works basing on the relation between the metallic weight, the length of pin inserted in the metallic wheel, the angle of the metallic wheel and the force of gravity.

Ratchet registration for the desired torque FIG.3



M Torque = P x g = 35 N cm  
When reaching the value "M" the ratchet releases and the indicator shows the value.



## References

- Rapani M, Perrotti V, Rapani C, Iaculli F, Iezzi G - Terapia implantare in paziente affetto da malattia di Albers-Schonberg: caso clinico e revisione della letteratura. **Journal of Osseointegration** 2013, 5(1):25-29
- Iezzi G, Piattelli A, Mangano C, Shibli JA, Vantaggiato G, Frosecchi M, Di Chiara C, Perrotti V - Peri-implant bone tissues around retrieved human implants after time periods longer than 5 years: a retrospective histologic and histomorphometric evaluation of 8 cases. **Odontology** 2012, [Epub ahead of print]
- De Franco M, Mangano F, Mangano A, Pigato A, Rapani M, Luongo G, Mangano C - Valutazione prospettica di 273 impianti con superficie trattata con acidi organici: risultati da 1 a 5 anni. **Journal of Osseointegration** 2012, 1(4):13-18
- Trisi P, Carlesi T, Colagiovanni M, Perfetti G - Implant Stability Quotient (ISQ) vs direct in vitro measurement of primary stability (micromotion): effect of bone density and insertion torque. **Journal of Osteology and Biomaterials** 2010, 1(3):141-151
- Mangano C, De Rosa A, Desiderio V, d'Aquino R, Piattelli A, De Francesco F, Tirino V, Mangano F, Papaccio G - The osteoblastic differentiation of dental pulp stem cells and bone formation on different titanium surface textures. **Biomaterials** 2010, 31:3543-3551
- Mangano F, Mangano C, Macchi A, Perrotti V, Iezzi G, Piattelli A - La topografia della superficie implantare nella moderna implantologia. Parte II: superfici nanostrutturate e DLF. **Italian Oral Surgery** 2010, 9(5): 261-275
- Mangano F, Mangano C, Macchi A, Perrotti V, Iezzi G, Piattelli A - La topografia della superficie implantare nella moderna implantologia. Parte I: superfici lisce e microrugose. **Italian Oral Surgery** 2010, 9(4):201-214
- Chauhan M, Chauhan R - Full mouth rehabilitation with implants. **Dental Practice** 2010, 9(3):16-19
- Mangano C, Piattelli A, Mangano F, Perrotti V, Iezzi G - Immediate loading of modified acid etched dental implants in post-extraction sockets: a histological and histomorphometrical comparative study in non-human primate Papio Ursinus. **Implant Dentistry** 2009, 18(2):142-150
- Cirotti B, Anelli B, Riccio G - Studio clinico su 1179 impianti inseriti in 5 anni. **Implant Tribune Italian Edition** 2008, 1:13-14
- Mangano C, Perrotti V, Iezzi G, Scarano A, Mangano F, Piattelli A - Bone response to a new modified titanium surface implants in non human primates (Papio Ursinus) and humans: histological evaluation. **Journal of Oral Implantology** 2008, 8(1):17-24
- Iezzi G, Scarano A, Mangano C, Cirotti B, Piattelli A - Histologic Results from a human implant retrieved due to fracture 5 years after insertion in a sinus augmented with anorganic bovine bone. **Journal of Periodontology** 2008, 79:192-198
- Mangano C, Macchi A, Mangano A - A new modified Titanium Implant surface: histological evaluation in non human primates and human. **Dental Horizons** 2006, 4(2):313-317
- Mangano F, Mangano C, Piattelli A, Iezzi G, Perrotti V - Histologic evaluation of immediately loaded titanium implants. **Clinical Oral Implant Research** 2006, 17(4):158
- Mangano et al. - La bioingegneria applicata all'implantologia osteointegrata: realtà clinica o ricerca pura? **Implantologia Orale** 2006, 1
- Silvetti M, Gualerni Tognola P - Implant prosthetic rehabilitation of elements with serious defect of bone tissue. **Protech** 2005, 4:29-37
- Mangano C, Ripamonti U, Montini S, Mangano F - Superfici biomimetiche e osteointegrazione: studio su primati non umani. **Italian Oral Surgery** 2005, 4(2):9-17
- Mangano C, Mangano F, Montini S - Histological evaluation of bone response to a new geometric surface configuration in non-human primates. *4th World Congress of Osseointegration, 2004 In: Clinical Oral Implant Research*
- Novaes AB, Jr, Papalexiou V, Grisi MFM, SLS Souza, Taba M. Jr, Kajiwara JK Influence of implant microstructure on the osseointegration of immediate implants placed in periodontally infected sites. A histomorphometric study in dogs. **Clin Oral Impl Res** 2003, 15:34-43
- Mangano C, Bartolucci E, Ripamonti U - Geometrie di superficie dell'impianto e osteogenesi: studio istologico. **Dental Cadmos** 2003, 2:59-65
- Polizzi G, Grunder U, Goene R, et al. - Immediate and delayed implant placement into extraction sockets: A 5-year report. **Clin Implant Dent Relat Res** 2000, 22:93-99
- Anselme K, Linez P, Bigerelle M et al. - The relative influence of the topography and chemistry of TiAl6V4 surfaces on osteoblastic cell behaviour. **Biomaterials** 2000, 21:1567-77
- Mangano C, De Franco M, Piattelli A et al. - Allergie e tossicità in implantologia. *Implantologia Orale* 2000, 4:15-22
- Nanci A, Zalzal S, Fortin M, Mangano C et al. - Incorporation of circulating bone-matrix proteins by implanted hydroxyapatite and at bone surfaces: Implications for cement-iine formation and structuring of biomaterial. *In: JE. Davies, Bone Engineering. Em Squared Inc: Toronto, Canada 2000*
- Rosenquist B, Grenthe B - Immediate placement of implants into extraction sockets: Implant survival. **Int j Oral Maxillofac Implants** 1999, 112:205-209
- Simmons CA, Valiquette N, Pillar RM - Endosseous integration of sintered porous-surfaced and plasma-spray coated implants: an animal model study of early post-implantation healing response and mechanical stability. **J Biomed Mater Res** 1999, 47:127-38
- Ripamonti U, Crooks J, Kikbride AN - Sintered porous hydroxyapatite with intrinsic osteoinductive activity: geometric induction of bone formation. **S Afr J Sci** 1999, 95:335-43
- Lazzara RJ, Porter SS, Testori T, Galante J, Zetterqvist L - A prospective multicenter study evaluating loading of Osseotite implants two months after placement: One-year results. **J Esthet Dent** 1998, 10:280-289
- Davies JE - Mechanisms of endosseous integration. **Int J Prosthodont** 1998, 11: 391-402
- Schwartz-Arad D, Chaushu G - The ways and wherefores of immediate placement of implants into fresh extraction sites; A literature review. **J periodontal** 1997, 68:915-923
- Ripamonti U - Smart biomaterials and bone morphogenetic proteins: geometric induction of bone formation. *In: Proceedings of the 2nd Annual Meeting of the Society for Biomaterials, New Orleans,; April 30-May 4, 1997*
- Martin JY, Schwartz Z, Hummert TW et al. - Effect of titanium surface roughness on proliferation, differentiation, and protein synthesis of human osteoblast-like cells (MG63). **J Biomed Mater Res** 1995, 29:389-401
- DSM. Dziedzic Effects of implant surface topography on osteoconduction (master's thesis). *Toronto, Ontario: University of Toronto, 1995.*
- Pilliar RM, Deporter DA, Walson P - Tissue-implant interface: micro movement effects. In: P. Vincenzini (ed). *Materai in Clinica! Applications. Faenza: Techna; 569-79, 1995*
- Van Eeden S, Ripamonti U - Bone differentiation in porous hydroxyapatite is regulated by the geometry of the substratum: implications for reconstructive craniofacial surgery. **Plast Reconstr Surg** 1994, 93:959-66
- Schwartz Z, Braun G, Kohavi D et al. - Effects of hydroxyapatite implants on primary mineralization during rat tibial healing: biochemical and morphometric analyses. **J Biomed Mater Res** 1993, 27(8):1029-38
- Remes A, Williams DF - Immune response in biocompatibility. **Biomaterials** 1992, 13:731-43
- Arnold E, West DC - Angiogenesis in wound healing. *Pharmacol Ther* 1991, 52:407-22
- American Academy of Implant Dentistry. "Glossary of Implant Terms". *Ora Implant* 1988, 12:284-94
- Winet H, Albrektsson T - Wound healing in the bone chamber: neovascularization during transition from the repair to the regenerative phase in the rabbit tibial cortex. **Int J Oral Maxillofac Impl** 1988, 3:99-107
- Albrektsson T, Zarb GA, Worthington P et al. - The long-term Efficacy of currently used dental implants: a review and proposed criteria of success. **Int J Oral Maxillofac Implants Summer** 1986, 1 (1 ):11-25
- Maniopoulos C, Pilliar RM, Smith DC - Threaded versus porous-surfaced designs for implant stabilization in bone-endodontic implant model. **J Biomed Mater Res** 1986, 20:1309-33
- Pilliar RM, Cameron HT, Welsh RP et al. - Radiographic and morphologic studies of load-bearing porous surface structured implants. **Clin Orthop** 1981, 156:249-56
- Brunski JB, Moccia AF, Pollack SR, Korostoff E, Trachtenberg DI - The influence of functional use of endosseous dental implants on the tissue-implant interface.11. Clinical aspects. **J Dent Res** 1979, 58: 1970-1980
- Mangano F, Bazzoli M, Tettamanti L, Farronato D, Maineri M, Macchi A, Mangano C. Custom made, selective laser sintering (SLS) blade implants as a non conventional solution for the prosthetic rehabilitation of extremely atrophied posterior mandible. **Lasers in Medical Science** 2013, 28:1241-1247. Epub 2012 Sep 14
- Mangano F, Pozzi Taubert S, Zecca P, Luongo G, Sammons R L, Mangano C. Immediate Restoration of Fixed Partial Prosthesis Supported by One Piece Narrow Diameter Selective Laser Sintering Implants: A 2 Year Prospective Study in the Posterior Jaws of 16 Patients. *Implant Dentistry* 2013, 22(4):388-393.
- Shibli JA, Mangano C, Mangano F, Rodrigues JA, Cassoni A, Bechara K, Ferreira JD, Dottore AM, Iezzi G, Piattelli A. Bone to implant contact around immediately loaded direct laser metal forming transitional implants in human posterior maxilla. **Journal of Periodontology** 2013, 84(6):732-737. Epub 2012 Sep 24
- Rapani M, Perrotti V, Rapani C, Iaculli F, Iezzi G. Implant insertion in a patient with Albers Schonberg's disease: case report and literature review. **Journal of Osseointegration** 2013, 5(1):13-16.
- Mangano F, Galletta D, Mastrangelo P, Luongo G, Figliuzzi M, Mangano C. Selective laser sintering (SLS) implants: results from a 2 year prospective multicenter study. *Implantologia Stomatologica* 2013, 1(7):68-72.
- Mangano F, Macchi A, Shibli JA, Luongo G, Iezzi G, Piattelli A, Caprioglio A, Mangano C. Maxillary ridge augmentation with custom made cad/cam scaffolds. A 1 year prospective study on 10 patients. **Journal of Oral Implantology** 2013. [Epub ahead of print]
- Mangano F, Tettamanti L, Sammons RL, Azzi A, Caprioglio A, Macchi A, Mangano C. Maxillary sinus augmentation with adult mesenchymal stem cells: a review of the current literature. **Oral Surg Oral Med Oral Pathol Oral Radiol.** 2013, 115:717-723 [Epub ahead of print]
- Giuliani A, Manescu A, Larsson E, Tromba G, Luongo G, Piattelli A, Mangano F, Iezzi G, Mangano C. In Vivo Regenerative Properties of Coralline Derived (Biocoral) Scaffold Grafts in Human Maxillary Defects: Demonstrative and Comparative Study with Beta Tricalcium Phosphate and Biphasic Calcium Phosphate by Synchrotron Radiation X Ray Microtomography. **Clinical Implant Dentistry and Related Research** 2013. [Epub ahead of print]
- Mangano F, De Franco M, Caprioglio A, Macchi A, Piattelli A, Mangano C. Immediate, non submerged, root analogue direct laser metal sintering (DLMS) implants: a 1 year prospective study on 15 patients. **Lasers in Medical Science** 2013. [Epub ahead of print]
- Mangano C, Piattelli A, Mangano F, Rustichelli F, Shibli JA, Iezzi G, Giuliani A. Histological and Synchrotron Radiation Based Computed Microtomography Study of 2 Human Retrieved Direct Laser Metal Formed Titanium Implants. **Implant Dentistry** 2013, 22:175-181.
- Mangano F, Mastrangelo P, Luongo G, Luongo F, De Franco M, Figliuzzi M, Mangano C. Selective laser sintering (SLS) implants: results from a 2 year prospective multicenter study. **20th Annual Scientific Meeting of the European Association of Osseointegration 10-13 October 2012, Copenhagen**
- Mangano F, Zecca P, Pozzi Taubert S, Macchi A, Ricci M, Luongo G, Mangano C. Maxillary sinus augmentation using computer aided design/computer aided manufacturing (CAD/CAM) technology. **The International Journal of Medical Robotics & Computer Assisted Surgery** 2012. Epub 2012 Sep 7
- Ricci M, Mangano F, Tercio T, Tonelli P, Barone A, Raspanti M, Covani U. Nanometrical evaluation of direct laser implant surface. **Surface and Interface Analysis** 2012. Epub 2012 Jul 24
- Figliuzzi M, Mangano F, Mangano C. A novel root analogue dental implant using CT scan and CAD/CAM: selective laser melting technology. **International Journal of Oral & Maxillofac Surgery** 2012; 41(7):858-62. Epub 2012 Feb 28
- Mangano F, Cirotti B, Sammons RL, Mangano C. Custom-made, root-analogue direct laser metal forming implant: a case report. **Laser Medical Science** 2012 Jun 15. [Epub ahead of print]
- Luongo G, Mangano C, Mangano F, Iezzi G, Piattelli A, Shibli JA, Giuliani A, Rustichelli F. X-ray synchrotron study of a human retrieved Direct Laser Metal Formed (DLMF) titanium implant. **27° Annual Meeting of the Academy of Osseointegration Phoenix** 2012
- Luongo F, Mangano C, Piattelli A, Scarano A, Raspanti M, Shibli JA, Mangano F, Perrotti V, Iezzi G. A light microscopy and Scanning Electron Microscopy study of peri implant collagen fibers around human Direct Laser Metal Forming (DLMF) dental implants. **27° Annual Meeting of the Academy of Osseointegration Phoenix** 2012
- Luongo G, Luongo F, Mangano F, Mangano C. Direct laser metal forming (DLMF) implants: results from a 1 year prospective multicenter study. **27° Annual Meeting of the Academy of Osseointegration Phoenix** 2012
- Mangano C, Mangano F, Shibli JA, Ricci M, Papaccio G, Perrotti V, d'Avila S, Piattelli A. Immediate Loading of Mandibular Overdentures Supported by Unsplinted Direct Laser Metal Forming Implants: Results From a 1 Year Prospective Study. **Journal of Periodontology** 2012; 83(1):70-78
- Mangano C, Mangano F, Shibli JA, Luongo G, De Franco M, Briguglio F, Figliuzzi M, Eccellente T, Rapani C, Piombino M, Macchi A. Prospective clinical evaluation of 201 direct laser metal forming implants: results from 1-year multicenter study. **Laser Medical Science** 2012; 27:181-189
- Figliuzzi M, Mangano F, Mangano C. Immediate custom-made direct laser metal formed (DLMF) titanium implant in single tooth replacement: a case report. **XX International SIO Congress Milan** 2012
- Mangano F, Mangano C, Shibli JA, Sammons RL, Papaccio G, Macchi A, Rapani M, Iezzi G, Piattelli A. Impianti Direct Laser Metal Forming (DLMF): dalla ricerca alle applicazioni cliniche. **Implant Tribune** 2011; 4:10-15
- Mangano C, Mangano F. Impianto postestrattivo a carico immediato in area estetica. *Quintessenza Internazionale Speciale Implantologia* 2011; 3bis:103-110
- Rapani C, Di Alberti L, Rapani M. Impianto laser made in osso rigenerato dopo rialzo del seno mascellare per via laterale. Follow-up a 2 anni. **Quintessenza Internazionale Speciale Implantologia** 2011; 3bis:103-110
- Mangano F, Mangano C, Eccellente T, De Franco M, Briguglio F, Figliuzzi M, Rapani M, Luongo G. Single-tooth titanium implants produced with direct laser metal-forming technology. Results from a 1-year prospective multicenter study. **Dental Cadmos** 79(8):475-491, 2011
- Mangano F, Mangano C, Eccellente T, Briguglio F, Figliuzzi M, Rapani C. Direct Laser Metal Forming (DLMF) Implants: A Prospective Clinical Study. **20th Annual Scientific Meeting of the European Association of Osseointegration Athens** 2011
- Rapani M, Mangano F, Mangano C, Shibli JA, Perrotti V, Ricci M, Piattelli A, Di Gregorio G. A prospective multicenter study on the immediate loading of mandibular overdentures supported by 4 one-piece unsplinted direct laser metal forming (DLMF) implants. Results from a 1-year follow-up report on 96 implants. **Congresso Nazionale Dei Docenti Di Discipline Odontostomatologiche Firenze-Siena** 2011
- Mangano C, Piattelli A, Raspanti M, Mangano F, Cassoni A, Iezzi G, Shibli JA. Scanning electron microscopy (SEM) and X ray dispersive spectrometry evaluation of direct laser metal sintering surface and human bone interface: a case series. **Lasers Medical Science** 2011; 26:133-138
- Mangano C, Piattelli A, D'Avila S, Iezzi G, Mangano F, Onuma T, Shibli JA. Early human bone response to laser metal sintering surface topography: a histologic report. **Journal of Oral Implantology** 2010; Vol. 36 n. 2:91-96
- Shibli JA, Mangano C, D'Avila S, Piattelli A, Pecora GE, Mangano F, Onuma T, Cardoso LA, Ferrari Sanchez D, Aguiar KC, Iezzi G. Influence of direct laser fabrication implant topography on Type IV bone. **Journal of Biomedical Materials Research Part A** 2010; Vol. 93:607-614



## References

75. Mangano C, Shibli JA, Mangano F, Sammons RL, Macchi A. Dental implants from laser fusion of titanium microparticles.  
**Journal of Osseointegration 2009; Vol. 1 n. 1:9-22**
76. Mangano C, Raspanti M, Traini T, Sammons RL, Piattelli A. Stereo imaging and cytocompatibility of a model dental implant surface formed by direct laser fabrication. **Journal of Biomedical Materials Research Part A 2009; Vol. 88A n. 3:823-831**
77. Macchi A, Taubert Pozzi S, Zecca PA. Direct metal laser sintering per la produzione di impianti "custom made".  
**DoctorOS 2009; Anno XX n. 8:1086 1087**
78. Shibli J A, Mangano C, Mangano F, Iezzi G, Cordoso L, Onuma T, Ferrari D, Piattelli A. Early human bone response to laser metal sintering surface topography: a histologic evaluation.  
**Clinical Oral Implant Research 2009; Vol. 20 n. 9 - 1036**
79. Macchi A, Mangano C, Mangano F. Direct Titanium laser forming implants.  
**Ceramics, Cells and Tissues 12° Annual seminar & Meeting Faenza 2009; 59**
80. De Benedictis S, Berardi D, Malagola C, Trisi P, Perfetti G. Histomorphometric and torque out evaluation of new laser treated implant surfaces: an in vivo study on ovine iliac crest.  
**Clinical Oral Implant Research 2009; Vol. 20 n. 9**
81. Mangano C, Perrotti V, Iezzi G, Scarano A, Mangano F, Piattelli A. Bone response to a new modified titanium surface implants.  
**Journal of Oral Implantology 2008; Vol. 34 n. 1:17-24**
82. Traini T, Mangano C, Sammons RL, Mangano F, Macchi A, Piattelli A. Direct laser metal sintering as a new approach to fabrication of an isoelastic functionally graded material. **Dental Materials 2008; 24:1525-1533**
83. Mangano F, Sammons RL, Mangano C, Montini S, Piattelli A. Biological investigation of an experimental laser sintered titanium implant surface.  
**Clinical Oral Implant Research 2007; Vol. 18, n. 5:333**
84. Raspanti M, Mangano C, Macchi A, Mangano F, Piattelli A, Traini T. Morphological investigation of an experimental laser sintered titanium implant.  
**European Journal of Implant Prosthodontics 2007; Vol. 1, n. 3:28**
85. Mangano C, Traini T, Piattelli A, Macchi A, Mangano F, Montini S, Mangano A. Producing dental implants by Direct Laser Forming.  
**Italian Oral Surgery 2006; 4:7-12**
86. Iezzi G, Traini T, Mangano C, Piattelli A. Surface microstructure and fibrine extension on titanium laser sintered specimens.  
**Journal of Clinical Periodontology 2006; 73-80**
87. Iezzi G, Traini T, Mangano C, Sammons RL, Piattelli A. FESEM and microanalysis investigation of an experimental sintered titanium alloy implant.  
**Academy of Osseointegration 21st Annual meeting, March 2006; 78**
88. Mangano C, Piattelli A, Scarano A, Raspanti M, Shibli JA, Mangano FG, Perrotti V, Iezzi G. A Light and Scanning Electron Microscopy Study of Human Direct Laser Metal Forming Dental Implants. **International Journal of Periodontics & Restorative Dentistry 2014 Jan Feb; 34(1):e9 e17**
89. Shibli JA, Mangano C, Mangano F, Brasil O, Lins B, Cozzolino F, Tunchel S, Blay A, Iezzi G, Piattelli A. Histomorphometric Evaluation of Direct Laser Metal Forming (DLMF) Implant Surface in the Type IV Bone: A Controlled Study in Human Jaw.  
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