

CONICAL CONNECTION

PSK LINE

CATALOGUE 2021

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oxy
implant



OXY IMPLANT

DESIGN & PRODUCTION



OXY Implant is a dental implant system totally designed, developed and manufactured in Italy.

The specific company know-how, acquired during thirty years completely spent in researches for dental implantology innovative solutions, allows to keep the **OXY Implant** line devices constantly at the quality level required by the most advanced scientific literature. All this offers the Surgeon a variety of choices that allow to easily deal with even the most complicated clinical situations.

The pursuit of the highest quality, obtained through the careful selection of suppliers and raw materials, the collaboration with research centres and the constant dialogue with the best Italian and foreign Implantologists, results in the great long-term reliability of the **OXY Implant Dental System** with the advantage of the Doctors and Patients ease.

All the implants of the **OXY Implant** line are made of Titanium Grade 4 of European origin, with characteristics of high mechanical resistance resulting from a special cold wire-drawing process.

The prosthetic components are made of Titanium Grade 5 and the surgical instruments of a special stainless steel. The machines used to produce **Oxy Implant** devices are equipped with the best numerical control technology, which allows working with tolerances of a few microns, thus ensuring the excellent overall quality of the implant-abutment system.

The production, testing and packaging phases of all the **OXY Implant** line devices are

developed entirely in the company, with the consequent possibility of a direct and constant control of the whole process by a highly skilled Team of Technicians.

The primary packaging of the implants is performed in a cleanroom to avoid any contamination, in compliance with the most stringent sectoral norms.

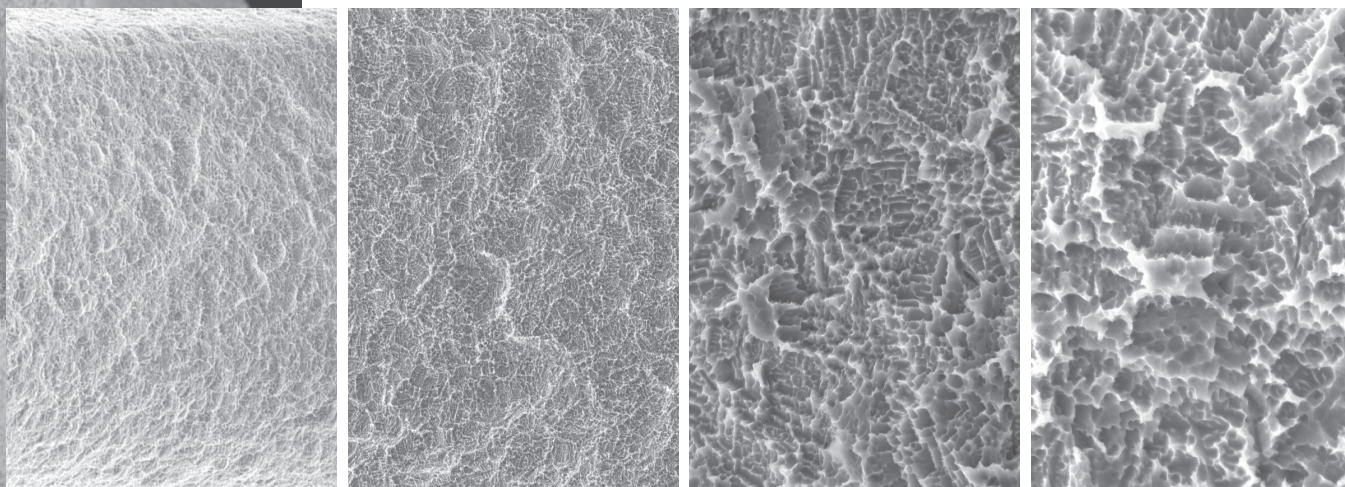
The renovated head office allows to welcome in an appropriate and modern way all the Customers who wish to observe how the process of realisation of implants, prosthetic components and surgical instruments develops. A large training room allows to organise for Dentists and Dental Technicians many training and refresher events which also represent a useful moment of dialogue between Manufacturer and Users. Their suggestions, derived from daily practice, allow indeed to continuously improve and innovate the **OXY Implant** system.

The medical devices of the **OXY Implant** system comply with the European Directive 93/42/EEC. The manufacturer Biomec S.r.l. has obtained the authorisation to sell from a European notified body and has been equipped with a quality system ISO 9001 and ISO 13485 since 1998.

SURFACE TREATMENT



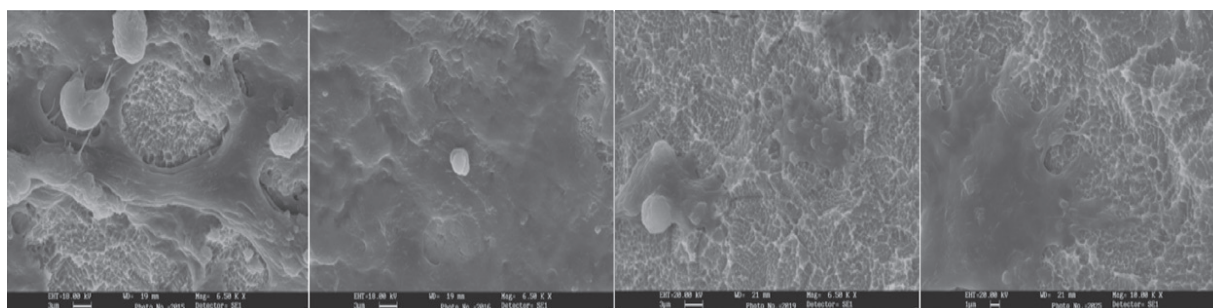
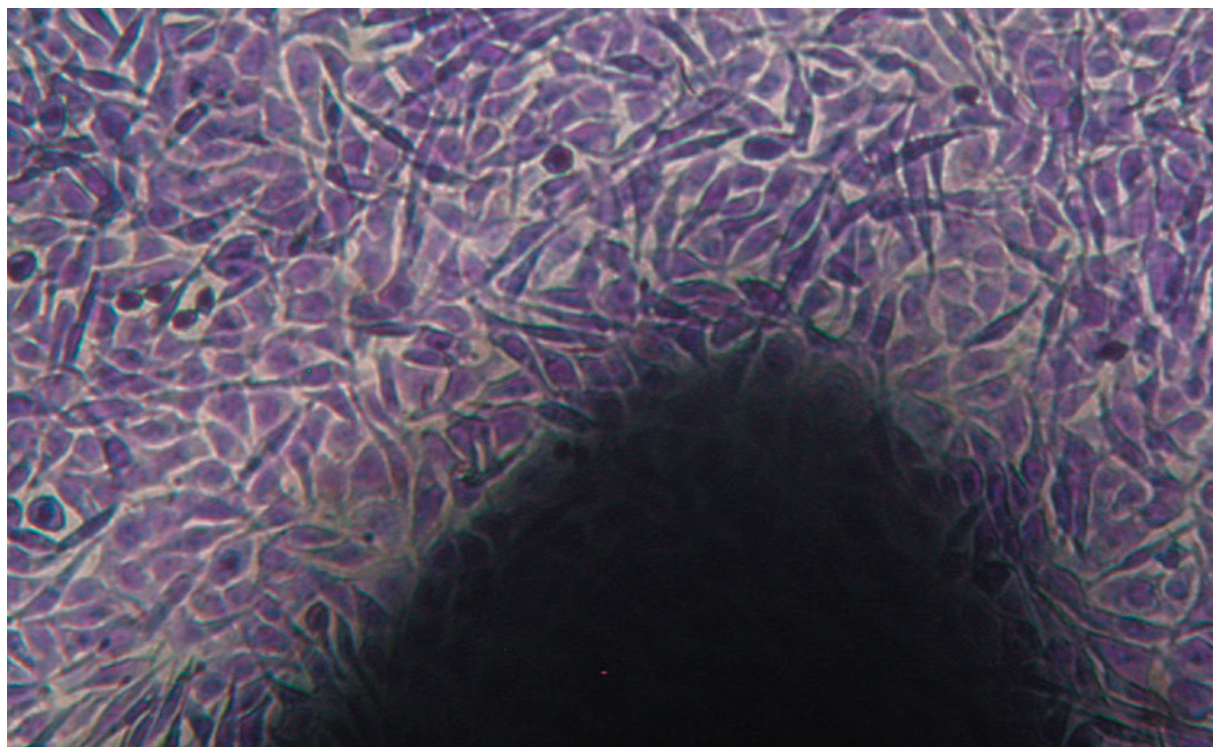
AMS (Advanced Micro Surface) is the surface selected for the entire range of implants by **OXY Implant**. This surface goes far beyond the results of earlier machined surfaces or surfaces treated with acid and chemical passivation. The **AMS** treatment was developed to accelerate the biological response of cell adhesion, thus enhancing the osseointegration process and the final clinical outcome. **AMS** is obtained with processes of chemical etching, decontamination and a cold Argon plasma treatment. Together they create a new surface with a high degree of cleanliness characterised by a homogeneous micro-porosity of the order of a few microns, smaller than the cell size, so as to considerably increase the adhesion of the osteoblastic cells and to favour the process of osteogenesis. All these factors are decisive in achieving the best bone-to-implant anchorage and a higher torque required for implant removal. The surface treatment of endosseous components is carried out by a specialised and certified company.



The 5000 X and 7500 X images show in detail the roughness obtained by means of the treatment: the interpeak distance is just a few microns, certainly smaller than the cell size, and accords with recent data about the effects of roughness size on the differentiation and behaviour of osteoblastic cells.

The cleanliness of the screw surface has been confirmed by an XPS analysis on the surface chemical composition. The analysed depth is about 5nm and provides a direct indication of the chemical composition of the material layers directly in contact with the bone.

According to the literature, the maximum concentration of Ti observable by means of XPS on the implant surface after treatment is 14-19%. A percentage of Titanium higher than 10% can be considered satisfactory. The detected amount of Titanium on **OXY** implants is 18%, a value close to the maximum obtainable percentage.



Cytotoxicity tests have been carried out in order to confirm the absence of toxicity induced by the processed screws. The possible presence of dead cells, multinucleated giant cells and general abnormalities in cell morphology was evaluated by comparing the data obtained at the cell layer in contact with the negative control (gold cylinder the same size as the implants) and with the positive control (gutta-percha cylinder).

After being observed under a microscope, the cells were fixed with fixative solution, coloured and photographed. The image relates to the results of tests carried out on experimental samples of the **OXY Implant** line.

All the observations reveal a situation in line with that of the negative control, that is they confirm the absence of toxic effects.

The surface treatment of the **OXY** implants guarantees:

- osteoblast adhesion to the implant surface
- no adverse effect on osteoblast adhesion and growth nor on the surface colonisation.

In conclusion:

- the surface treatment process implemented causes a morphological alteration of the processed screws
- the roughness obtained conforms to what is deemed appropriate to enhance the healing process of bone and osseointegration, at the current state of knowledge
- the implemented process and the following decontamination step allows the complete removal of residues arising from processing and the production of surfaces free of contaminants and foreign deposits
- implants processed with this treatment do not show cytotoxicity effects
- validated and checked periodically, 100% visual inspection and electron microscope analysis on some samples of each treatment batch.

PACKAGE

The implants outer package of **OXY Implant** is made of cardboard and has a convenient tear-off opening system.

The packaging graphics show the indications regarding the connection type and the implant line name.

The external labels present the colour coding and all the specific data of the implant: description, code, production batch, expiry date and manufacturer.

Inside the package there is the sterile tube containing the implant and the cover screw, the instructions for use and 3 stickers indicating all the specific data of the implant, which should be applied respectively on the medical record, on the patient's implant passport and on any additional documentation.



The prosthetic components and the optional or spare surgical instruments are packaged in thermosealed polyethylene bags, with an adhesive label showing all the data of the device: description, reference and batch numbers, colour coding, manufacturer and specific standard symbols for each item.

The prosthetic components and surgical instruments are supplied NON-STERILE and must be sterilised before use.



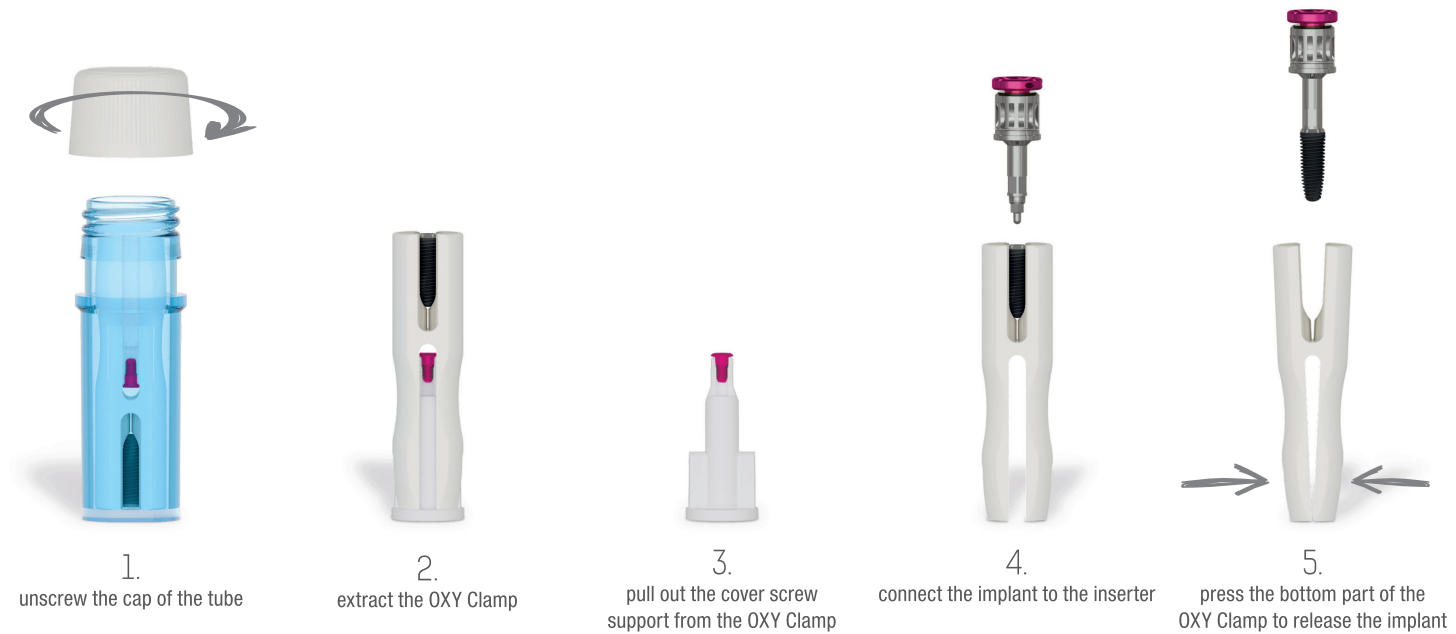
OXY CLAMP PACKAGE SYSTEM

All the implants made by **OXY Implant** are contained in a plastic material tube sealed with a screw cap with safety ring, tested to guarantee a 5-year sterility. The sterilisation is performed with BETA rays irradiation validated process, guaranteed and subjected to periodic controls.

MOUNT FREE - OXY CLAMP SYSTEM:

- implant and cover screw are placed in a plastic support with a titanium core
- it allows to see implant and cover screw before opening the sterile tube and prevents implant movements for an easier extraction

Implant extraction in 5 simple steps:



PSK LINE GENERAL FEATURES

The **PSK Line** joins all the OXY Implant strengths, the maximum insertion simplicity and the perfect primary stability. It reproduces perfectly the external morphology of the old Piesse Line and the conical connection already widely experienced with the K1 Line. Thanks to its design, able to transmit the chewing loads in the deepest bone marrow, it is proved ideal for limiting the dangerous bone resorption in the crestal area. The perfect adhesion between the surfaces on the implant-abutment connection area allows to minimize the related micromovements and to reduce the bacterial infiltrations.



These are the main features:

- **conical morphology**, with different angulations of platform, central and apical areas, the way to replicate the natural shape of a tooth root. Especially the apex is rounded to prevent, during screwing, the risk of anatomical structures damage. The three self-tapping longitudinal helicoidal cuttings are ideal to facilitate the insertion of the implants
- the collar is machined to a height of 0.5 mm in order to minimize the probability of peri-implantitis occurrence. It has a convergent geometry also to ensure a constant aesthetic of the gingival contour, perfectly supported by the re-grown bone
- the external double lead thread Micro and Normo allows the dentist to increase the insertion speed and thus to find maximum primary stability.
- two possible **connection platforms**:
MINI: for **PSK Narrow implants** (diameter 3.0 mm)
 with **YELLOW** dedicated prosthetic components
STANDARD: for **PSK implants** (diameters 3.5 - 4.0 - 4.5 - 5.0 mm)
 with **FUCHSIA** dedicated prosthetic components
- in order to ease the Surgeon's work, the drills dedicated to **PSK Line** are the same of Piesse Line. They are graduated with laser marking to indicate the implant lengths. For the same reason they can be fitted with depth stoppers. Their morphology is cylindrical with a step of smaller diameter to realize a surgical socket that follows accurately the implant shape, more conical in the apical area. The drills are made of hardened stainless steel, with **Black Diamond** coating to increase the cutting power and consequently to reduce the bone heating during use.

material

Grade 4 Titanium commercially pure: medical (ASTM F67)

Cold worked: resistance more than 40%

Bar tolerance h6: more precision in components manufacturing

PSK MICRO NARROW

MINI CONICAL CONNECTION

The **PSK Line Narrow Core** implants, characterized by Mini conical connection and reduced dimensions of the internal thread and hexagon, should be used only in incisal low stress area and are not indicated for Immediate Loading technique.

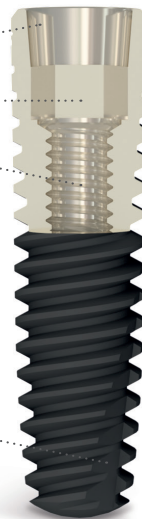
Line: PSK MICRO **NARROW**
Implant: ø 3.0 mm
Connection: Mini
Implant colour coding: YELLOW
Prosthetic colour coding: YELLOW

mini conical connection

9° Cone
 1.9 mm Hexagon
 M1.5 Internal thread

cuttings

Self-tapping lateral helicoidal



2.8 mm

platform switching

The **Platform Switching** design with **machined collar** for a better soft tissue management and a more natural aesthetic result

1.2 mm

0.6 mm

external thread

The implants are characterized by an external double thread with a **1.2 mm** pitch and a **0.6 mm** intercrestal distance



Ø 3.0 mm

Platform ø 2.8 mm
 Colour coding YELLOW
 Double Thread Micro
 Thread pitch 1.2 mm
 Intercrestal distance 0.6 mm



PSKN30100



PSKN30115



PSKN30130



PSKN30150

PSK MICRO

STANDARD CONICAL CONNECTION

Line: PSK MICRO
 Implant: \varnothing 3.5 - 4.0 - 4.5 - 5.0 mm
 Connection: Standard
 ● Implant colour coding: BLUE
 ● Prosthetic colour coding: FUCHSIA

standard conical connection

9° Cone
 2.3 mm Hexagon
 M1.8 Internal thread

rounded apex

Prevents the risk of tissues damage,
 also in case of sinus lifting

platform switching

The **Platform Switching** design with **machined collar** for a better soft tissue management and a more natural aesthetic result

external thread

The implants are characterized by a double thread with a **1.2 mm** pitch and a **0.6 mm** intercrestal distance

cuttings

Self-tapping lateral helicoidal

PSK NORMO

STANDARD CONICAL CONNECTION

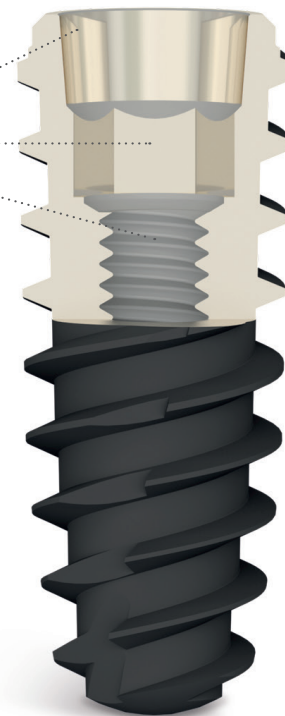
Line: PSK NORMO
 Implant: \varnothing 3.5 - 4.0 - 4.5 - 5.0 mm
 Connection: Standard
 ● Implant colour coding: BLUE
 ● Prosthetic colour coding: FUCHSIA

standard conical connection

9° Cone
 2.3 mm Hexagon
 M1.8 Internal thread

rounded apex

Prevents the risk of tissues damage,
 also in case of sinus lifting



platform switching

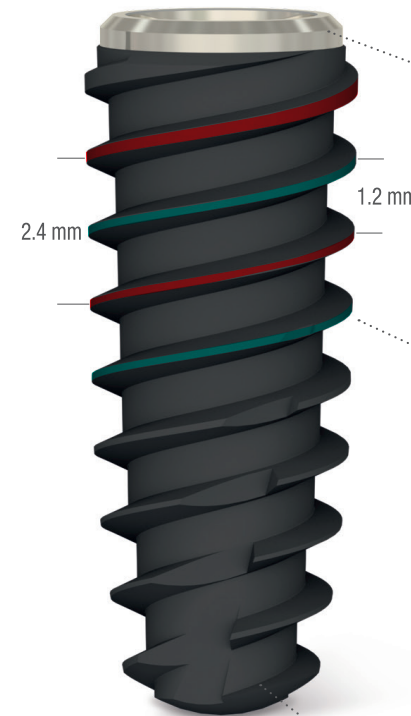
The **Platform Switching** design with **machined collar** for a better soft tissue management and a more natural aesthetic result

external thread

The implants are characterized by a double thread with a **2.4 mm** pitch and a **1.2 mm** intercrestal distance

cuttings

Self-tapping lateral helicoidal



Ø 3.5 mm

Platform Ø 3.6 mm
Colour coding BLUE
Double Thread Normo
Thread pitch 2.4 mm
Intercrestal distance 1.2 mm



PSK35085NT



PSK35100NT



PSK35115NT



PSK35130NT



PSK35150NT

pterygoid

The Ø 4.0 and 4.5 mm pterygoid implants were created to treat upper jaw severe atrophies.

The height of the machined collar is 3 mm in order to allow the tissue level placement.

Ø 4.0 mm

Platform Ø 3.6 mm
Colour coding BLUE
Double Thread Normo
Thread pitch 2.4 mm
Intercrestal distance 1.2 mm



PSK40070NT



PSK40085NT



PSK40100NT



PSK40115NT



PSK40130NT



PSK40150NT



PSK40170NT



PSK40200NT

Ø 4.5 mm

Platform Ø 3.6 mm
Colour coding BLUE
Double Thread Normo
Thread pitch 2.4 mm
Intercrestal distance 1.2 mm



PSK45070NT



PSK45085NT



PSK45100NT



PSK45115NT



PSK45130NT



PSK45150NT



PSK45170NT



PSK45200NT

Ø 5.0 mm

Platform Ø 3.6 mm
Colour coding BLUE
Double Thread Normo
Thread pitch 2.4 mm
Intercrestal distance 1.2 mm



PSK50070NT



PSK50085NT



PSK50100NT



PSK50115NT



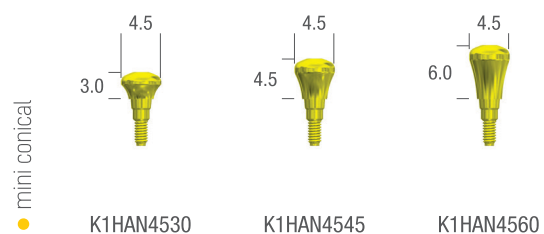
PSK50130NT



PSK50150NT

HEALING ABUTMENT

Titanium Grade 5 | Tightening torque 10 Ncm



The healing abutments are available in **different diameters and transmucosal heights**.

This offers the possibility of their optimal use in function of the anatomical characteristics of the gingiva.

Healing abutments and impression coping transfers have an anatomic emergency profile for optimal soft tissue management.

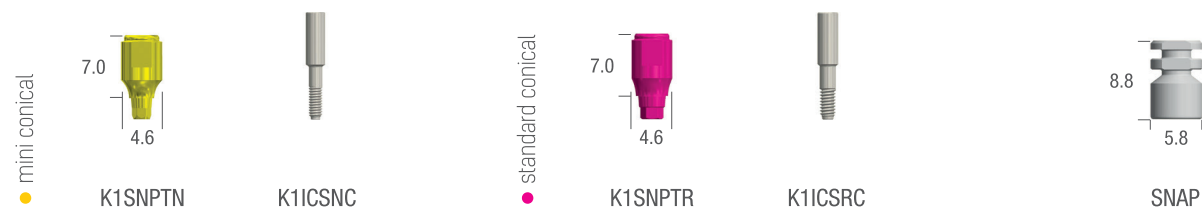
IMPRESSION COPING TRANSFER OPEN TRAY

Titanium Grade 5 | Tightening torque 10 Ncm | screw H3 mm included



IMPRESSION COPING TRANSFER CLOSED TRAY

Titanium Grade 5 | Tightening torque 10 Ncm | screw H 0 and cap included



LABORATORY ANALOGUE

Titanium Grade 5



SNAP-ON CAP

POM

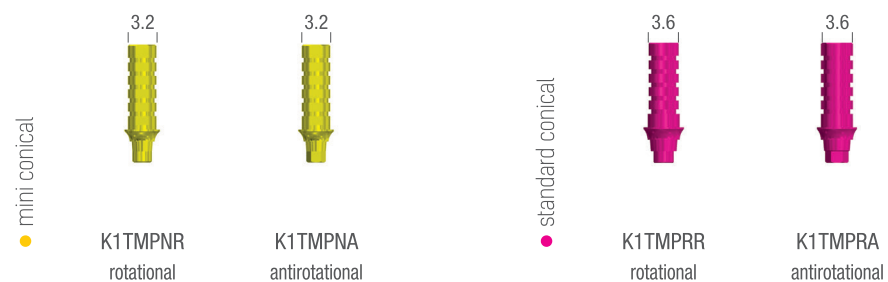
The **Open Tray** impression coping transfer morphology allows for perfect stability in the impression material and guarantees its absolute precision.

The **Closed Tray** impression coping technique allows maximum precision in repositioning the transfer within the silicone impression.

The analogues precisely replicate the **size** and **morphology** of the implant connection platform.

TEMPORARY ABUTMENT

non-activated conical connection | Titanium Grade 5 | Tightening torque 20 Ncm | abutment screw black diamond included



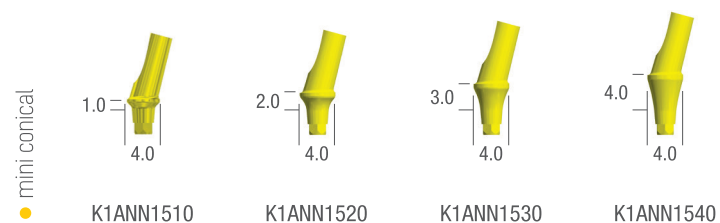
STRAIGHT ABUTMENT ANTIROTATIONAL

Titanium Grade 5 | Tightening torque 20 Ncm | abutment screw black diamond included



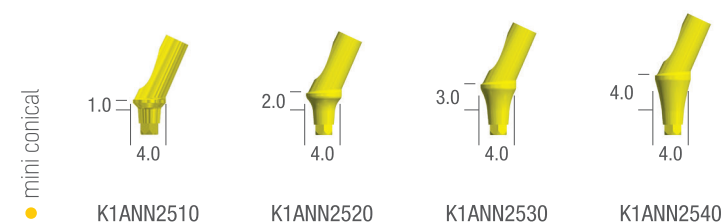
ANGLED ABUTMENT 15° ANTIROTATIONAL

Titanium Grade 5 | Tightening torque 20 Ncm | abutment black diamond screw included



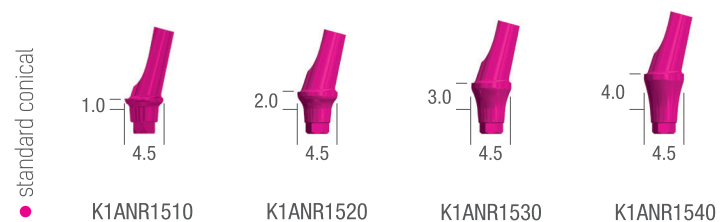
ANGLED ABUTMENT 25° ANTIROTATIONAL

Titanium Grade 5 | Tightening torque 20 Ncm | abutment black diamond screw included



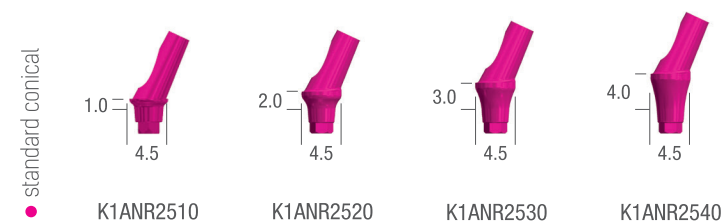
ANGLED ABUTMENT 15° ANTIROTATIONAL

Titanium Grade 5 | Tightening torque 20 Ncm | abutment black diamond screw included



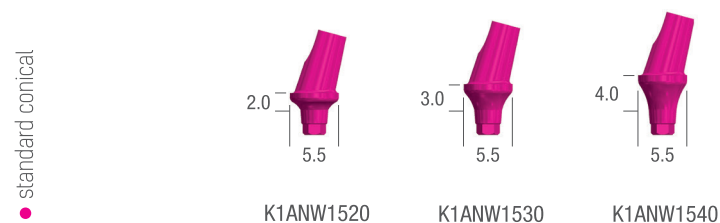
ANGLED ABUTMENT 25° ANTIROTATIONAL

Titanium Grade 5 | Tightening torque 20 Ncm | abutment black diamond screw included



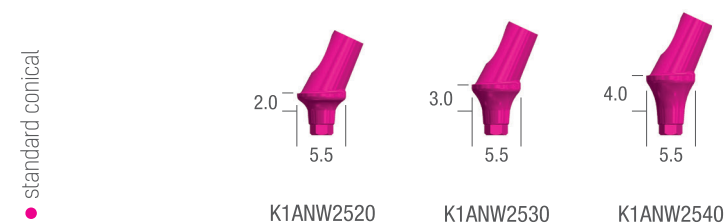
ANGLED ABUTMENT 15° ANTIROTATIONAL WIDE

Titanium Grade 5 | Tightening torque 20 Ncm | abutment black diamond screw included



ANGLED ABUTMENT 25° ANTIROTATIONAL WIDE

Titanium Grade 5 | Tightening torque 20 Ncm | abutment black diamond screw included



STRAIGHT ABUTMENT ANTIROTATIONAL EXTRAWIDE

Titanium Grade 5 | Tightening torque 20 Ncm | abutment screw black diamond included



MILLING ABUTMENT STRAIGHT ANTIROTATIONAL

Titanium Grade 5 | Tightening torque 20 Ncm | abutment screw black diamond included



ABUTMENT SCREW

Titanium Grade 5 black diamond coating

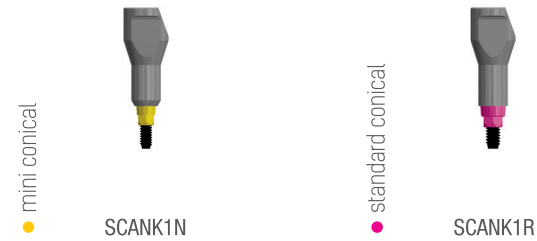


All the PSK Line **prosthetic screws** undergo a coating process called **Black Diamond** to reduce the friction coefficient during the screwing phase. Thanks to the better tightening process, the annoying connection loosening incidents are minimised.

The ideal **tightening torque** for PSK prosthetic screws is 20 Ncm. This torque value, without creating unnecessary stress in the conical part of the implant, ensures the activation of the conical connection between the implant and the abutment with the well-known advantages of anti-unscrewing and minimising the risk of bacterial infiltration.

SCAN BODY INTRAORAL AND MODEL SCANNING FOR CAD/CAM

opacified Titanium Grade 5 | Tightening torque 10 Ncm | screw included



A further possibility of customisation is given by **BAS (Base for Angled System)**, which allows an angled screwing up to 25° in relation to the implant axis thanks to a fixing screw with a torx head and its special screwdriver.

This special feature makes of **BAS** the ideal solution for concealing the screw hole in the palatal or lingual area, so as to realise a screwed rehabilitation with a high aesthetic level.

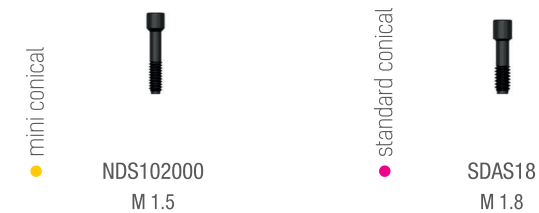
DIGITAL ANALOGUE FOR CAD/CAM

Stainless steel



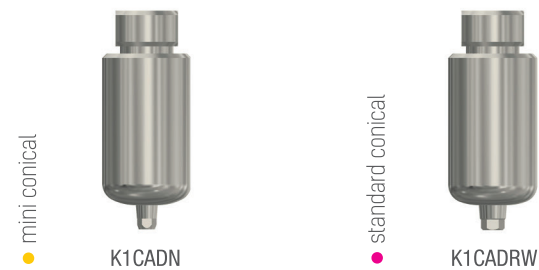
TORX SCREW FOR ANGLED SCREWING BAS

Titanium Grade 5 black diamond coating



PREMILLED ABUTMENT ANTIROTATIONAL FOR CAD-CAM

Titanium Grade 5 | abutment screw black diamond included | Arum® compatible | Ø 10 mm



MECHANICAL SCREWDRIVER FOR TORX SCREWS

Stainless steel with black diamond coating | Tightening torque 20 Ncm | torx key



TITANIUM BASE SWITCH FOR CAD/CAM activated conical connection

Titanium Grade 5 | Tightening torque 20 Ncm | abutment screw black diamond included



The main feature of the new design is the possibility to choose which abutment height is more suitable depending on the desired type of Cad-Cam solution and on the position of the implant. The base starts from 6.5 mm height - ideal size for casting and cementing elements in the rear area, where there is a greater need of contact surface. The technician is also given the possibility to mill the base in two further different heights following the grooves present on the component: the first at an intermediate height of 5.0 mm and the second suitable for the aesthetic front areas where the vertical space is less than 3.5 mm.

These references are found in the **Oxy Implant** libraries and allow to realise the most appropriate prosthetic solutions using Cad-Cam technologies.



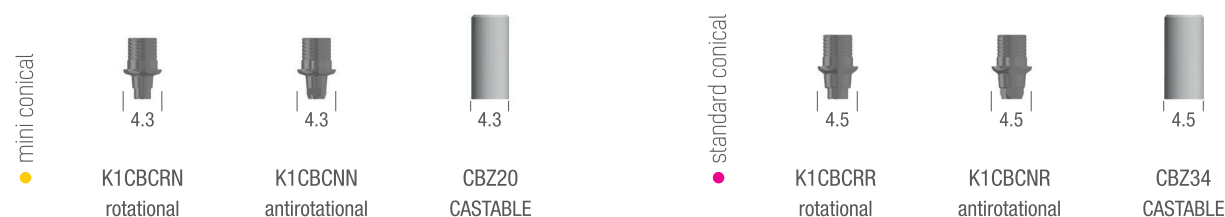
TITANIUM BASE SWITCH FOR CAD/CAM activated conical connection

Titanium Grade 5 | Tightening torque 20 Ncm | abutment screw black diamond included



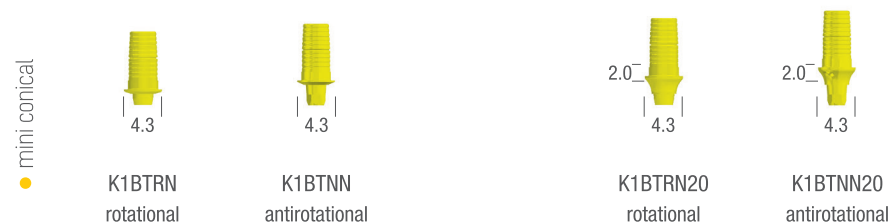
COBALT-CHROME BASE SWITCH FOR CAD/CAM activated conical connection

Titanium Grade 5 | Tightening torque 20 Ncm | abutment screw black diamond included



TITANIUM BASE FLAT FOR CAD/CAM non-activated conical connection

Titanium Grade 5 | Tightening torque 20 Ncm | abutment screw black diamond included



TITANIUM BASE FLAT FOR CAD/CAM non-activated conical connection

Titanium Grade 5 | Tightening torque 20 Ncm | abutment screw black diamond included



COBALT-CHROME BASE FLAT FOR CAD/CAM non-activated conical connection

Titanium Grade 5 | Tightening torque 20 Ncm | abutment screw black diamond included



Implant libraries available for:

- EXOCAD®
- 3SHAPE®
- DENTAL WINGS®

CONNECTOR BASE

standard conical

This solution allows to implement the “one abutment - one time” concept.

The main component, **Connector Base**, can no longer be removed once fixed to the implant by activating the conical connection retention, in order to preserve the epithelial tissue attachment.

The prosthetic connection is therefore above the mucosa, moving so the “**implant + Connector Base**” assembly to tissue level.

For this purpose, inside the base there is a 40° cone which perfectly matches the male cone present on each dedicated prosthetic component: the coupling occurs by joining these two parts and by fixing them with the corresponding screw.

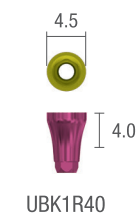
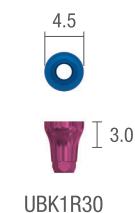
This allows:

- to compensate even strong disparallelisms on multiple implants;
- to release the masticatory forces mainly on the junction cone, avoiding to stress the prosthetic screw as occurs with a normal rotational titanium base.

It is indicated for single crowns, bridges and full-arch rehabilitations.

CONNECTOR BASE

Titanium Grade 5 | fixing screw included



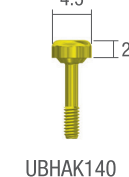
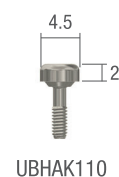
FIXING SCREW

Titanium Grade 5



HEALING ABUTMENT

Titanium Grade 5



IMPRESSION COPING TRANSFER CLOSED TRAY ROTATIONAL

Titanium Grade 5



CONNECTOR BASE

DIGITAL AND LABORATORY ANALOGUE

Stainless steel



UBKLAB

ABUTMENT-IMPRESSION COPING

Titanium Grade 5



UBTMP
rotational



UBTMPN
antirotational

TITANIUM COVER FOR BONDING

Titanium Grade 5



UBCA
rotational



UBCAN
antirotational

CASTABLE ABUTMENT

PMMA



UBCAL

SCAN BODY

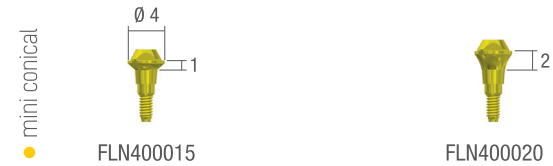
opacified Titanium Grade 5



UBSCAN

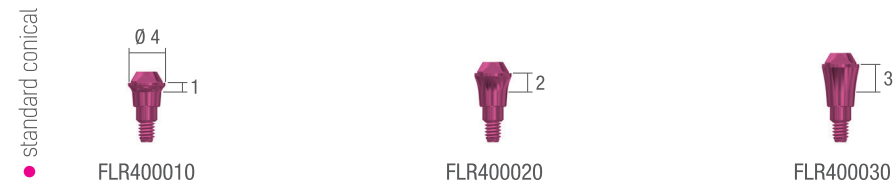
FIXO LINK compatible with the prosthetic components FIXO MINI

Titanium Grade 5



FIXO LINK compatible with the prosthetic components FIXO MINI

Titanium Grade 5



Fixo Link is also designed according to “one abutment - one time” concept.

Once placed onto the fixture, it is no longer necessary to remove it, in order to favour the creation of an optimal biological seal.

To allow the management of the different heights of soft tissues, and to condition the horizontal width of the healing according to the size of the rehabilitated tooth, models with different heights and chamfer diameters are available.

The prosthetic components are connected using the cone of **Fixo Link** and fixed with a M1.8 screw which can be tightened to 30 Ncm. It is indicated for single crowns, bridges and full-arch rehabilitations.

FIXO LINK MINI DRIVER for 4.0 mm diameter

Stainless steel



PROSTHETIC COMPONENTS

FIXO MINI

impression
coping
transfer



F4MTR

Titanium Grade 5

impression coping transfer screw
included

temporary
abutment



F4MTA

Titanium Grade 5

prosthetic screw included

cover
for
bonding

Titanium

Cobalt-Chrome



F4MCT



F4MCC

prosthetic screw included

antirotational
abutment
transfer



F4MMTA

Titanium Grade 5

prosthetic screw included

scan body



SCANF4M

Titanium Grade 5

screw included

castable
abutment



F4MCA

PMMA

prosthetic screw included

healing
cap



F4MHC



F4MHCH

Titanium Grade 5

digital and
laboratory
analogue



F4MAD

Stainless steel

prosthetic
screw
M1.8



F4GPS

Titanium Grade 5
black diamond coating

prosthetic
screw
with torx



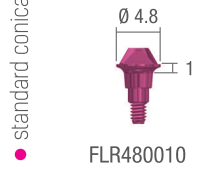
F4GCAR

Titanium Grade 5
black diamond coating

FIXO LINK compatible with the prosthetic components FIXO

Titanium Grade 5

standard conical



FLR480010



FLR480020



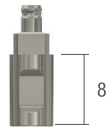
FLR480030



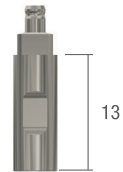
FLR480040

FIXO LINK DRIVER for 4.8 and 6.0 mm diameters

Stainless steel



DFL0008
short



DFL0013
long

PROSTHETIC COMPONENTS

FIXO

impression coping transfer



F4GTR

Titanium Grade 5

impression coping transfer screw included

temporary abutment



F4GTA

Titanium Grade 5

prosthetic screw included

cover for bonding

Titanium

Cobalt-Chrome



F4GCT



F4GCC

prosthetic screw included

antirotational abutment transfer



F4GMTA

Titanium Grade 5

prosthetic screw included

scan body



SCANF4G

Titanium Grade 5

prosthetic screw included

oxy loc abutment



F4GLOC

Titanium Grade 5
Gold Titanium coating

Locator® compatible
Locator® is a Zest Anchors registered trademark

castable abutment



F4GCA

PMMA

prosthetic screw included

healing cap



F4GHC

F4GHCH

Titanium Grade 5

digital and laboratory analogue



F4GAD

Stainless steel

prosthetic screw M1.8



F4GPS

Titanium Grade 5
black diamond coating

prosthetic screw with torx



F4GCAR

Titanium Grade 5
black diamond coating

mechanical screwdriver for angled screwing



SEDS



MESD

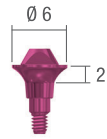
torx key

Stainless steel
black diamond coating

Mechanical screwdriver SEDS or MESD must be ordered separately.

FIXO LINK compatible with the prosthetic components FIXO LARGE

Titanium Grade 5



FLR600020



FLR600030

HEALING CAP

Titanium Grade 5



FLHC00600

DIGITAL ANALOGUE

Stainless steel



FLAN00600

ABUTMENT-IMPRESSION COPING

Titanium Grade 5



FLTAR0600
rotational



FLTAA0600
antirotational

NSK offers advanced technology to significantly enhance clinical performance.

Surgic Pro implant motor system is compact, lightweight and powerful to reliably deliver everything that professionals demand.

Compact design and large LCD display

The compact, sophisticated design control unit features a large, high-visibility backlit LCD display and intuitive control keys to contribute to a safer and user-friendly work environment.

Memorisation of 8 different implant systems

Surgic Pro memorises 8 different implant systems and a total of 64 programmes. The programmable parameters are gear ratio, speed, direction of rotation, torque limit, coolant solution volume and light level. This feature is extremely useful when using two or more implant brands. Once programming is complete, simply push a button to call procedures up.

LED lighting for safer and more accurate treatment

The NSK LED generates natural daylight-quality light to illuminate the entire treatment area, enabling more precise surgery and shortened operation time. The lights increase safety because they do not overheat and are long-lasting.

Advanced irrigation pump

The pump allows easy set-up of the irrigation tubes and is extremely quiet during operation.

Maximum accuracy with the torque advanced calibration system

Advanced Handpiece Calibration (AHC)

The NSK Advanced Handpiece Calibration (AHC) system ensures the correct torque value required for specific treatments. There is normally a light mismatch between actual torque and pre-set values due to friction between bearings and contra-angle gears. AHC corrects this mismatch to ensure accurate torque values.

High accuracy calibration

Unloaded, loaded and speed level adjustments improve the precision of calibration, which can be according to handpiece usage.

An advanced implantology motor for demanding clinical settings:

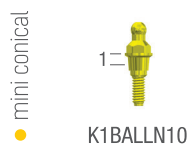
- powerful torque (up to 80 Ncm)
- wide speed range (200 - 40.000 min⁻¹)
- high accuracy torque
- smaller and lighter surgical motor system
- LED illumination (over 32,000 LUX)
- excellent durability
- autoclavable, thermo disinfected and maintenance-free brushless design



BALL ABUTMENT SCREW-RETAINED sphere Ø 1.8 mm

Titanium Grade 5 | Tightening torque 20 Ncm | Titanium cover and retention cap included

mini conical



titanium cover for ball abutment mini



retention cap for ball abutment micro Ø 1.8 mm



BALL ABUTMENT SCREW-RETAINED sphere Ø 2.25 mm

Titanium Grade 5 | Tightening torque 20 Ncm | Titanium cover and retention cap included

standard conical

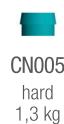


cover for ball abutment standard



2 pcs per package

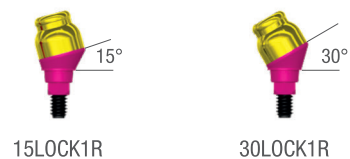
retention cap for ball abutment normo Ø 2.25 mm



5 pcs per package

OXY LOC ABUTMENT

Locator® compatible | Titanium Grade 5 Gold Titanium coating | Tightening torque 30 Ncm | Titanium cover and retentive cap included | Locator® is a Zest Anchors registered trade mark



titanium cover for oxy loc abutment



2 pcs per package

retention cap oxy loc abutment



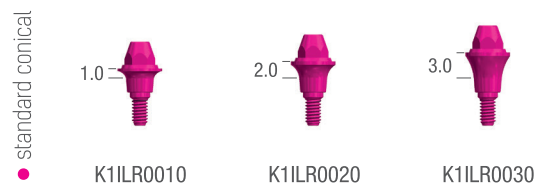
5 pcs per package



The Oxy Loc abutment, completely compatible with Locator® system, is made of Titanium Grade 5. To ensure greater resistance over time, the transmucosal part and the abutment platform are **Gold Titanium** coated. Oxy Loc abutment is only available for **Standard** conical connection. The shape of the Oxy Loc abutment platform allows to fix divergences between two implants up to 20°.

STRAIGHT BASE ILS

Titanium Grade 5 | Tightening torque 20 Ncm | plastic pre-mounted handle included



ANGLED BASE 17° ILS

Titanium Grade 5 | Tightening torque 20 Ncm
stainless steel pre-mounted handle and abutment screw black diamond included



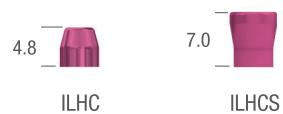
ANGLED BASE 35° ILS

Titanium Grade 5 | Tightening torque 20 Ncm
stainless steel pre-mounted handle and abutment screw black diamond included



HEALING CAP FOR ILS BASE

Titanium Grade 5 | Tightening torque 10 Ncm



IMPRESSION COPING TRANSFER FOR ILS BASE

Titanium Grade 5 | Tightening torque 10 Ncm
screw included



LABORATORY ANALOGUE FOR ILS BASE

Stainless steel



ILS (Immediate Load System) includes all the components that, in a safe and reliable way, allow a fast prosthetic rehabilitation thanks to the use of All-on-Four immediate load technique.

For this purpose, **Oxy Implant** provides straight and angled bases with 17° and 35° and different transgingival heights with corresponding pre-mounted handles.

SCAN BODY INTRAORAL AND MODEL SCANNING FOR ILS BASE

Opacified Titanium Grade 5 | Tightening torque 10 Ncm
screw included



SCANILS

TEMPORARY FOR ILS BASE ROTATIONAL

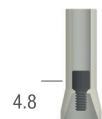
Titanium Grade 5 | Tightening torque 15/20 Ncm
screw M1.4 black diamond included



ILTA

CASTABLE FOR ILS BASE ROTATIONAL

PMMA | Tightening torque 15/20 Ncm
screw M1.4 black diamond included



ILCA

DIGITAL ANALOGUE FOR ILS BASE

Stainless steel



ADIL

COVER FOR ILS BASE ROTATIONAL

Tightening torque 15/20 Ncm
screw M1.4 black diamond included

for bonding



ILCT
Titanium

for fusion



ILCC
Cobalt-Chrome

FIXING SCREW

Titanium Grade 5 black diamond coating | M1.4



ILPS

For the realization of the temporary or permanent prosthetic structures, are available the easy to shorten and model Temporary abutments for milling and a classic castable abutment that allows to realize structures for casting. There are also available covers of small dimensions, for casting and bonding made of Cobalt-Chrome or Titanium which avoid the wasting of time for dimension reduction operations.

FIXING TORX SCREW FOR ANGLED SCREWING ILS

Titanium Grade 5 black diamond coating | M1.4



SDAS14

SURGICAL INSTRUMENTS

The drills for the **PSK Line** implants are designed and manufactured with the aim of ensuring their constant efficiency and maximum longevity. These prerogatives are achieved first of all thanks to the use of top quality materials such as the special tempered stainless steel used for their production. The latest generation finishing processes complete the production cycle.



All drills surface is coated with **Black Diamond**, a perfectly biocompatible material which increases their surface hardness and decreases the generated frictional forces. This process therefore greatly increases the cutting power and consequently reduces the risk of bone overheating during surgery.

Their morphology is cylindrical with a step of lower diameter to make a surgical alveolus that faithfully follows the shape of **PSK** implant, more conical in the apical area.

The drills are sequential with a step of 0.3 mm between the successive diameters (2.9 - 3.2 - 3.5 - 3.8 and 4.1 mm) to make a surgical alveolus that corresponds perfectly to the implant core or to underprepare or over-prepare it according to the characteristics of the bone density.

In order to ease the Surgeon's work, the drills are graduated with laser markings to indicate the length of the inserted implant. For the same reason they can also be equipped with a Titanium depth stopper.

As well the diameter of the drill is clearly highlighted thanks to a specific laser marking.

The colour of the instrument stem allows to easily identify the slot of the surgical kit in which to store it: it is indeed characterized by the same coding.

It is important to remember that the drill tip increases the length of the instrument by 0.5 mm. Considering this, it will always be possible to avoid damage to the anatomical structures especially during use in areas close to the maxillary sinus or to the mandibular canal.



PILOT DRILL

Ø 1.8 mm

Hardened stainless steel
black diamond coating

max 900 Rpm



SID01L

CALIBRATED EXPANDABLE STOPPER

Titanium Grade 5



Length	Ref.
5.5 mm	EST4055T
7 mm	EST4070T
8.5 mm	EST4085T
10 mm	EST4100T
11.5 mm	EST4115T
13 mm	EST4130T
15 mm	EST4150T

TISSUE PUNCH

Hardened stainless steel
black diamond coating

max 100 Rpm



MPU34

INITIAL GRADUATED DRILL

Ø 2.3 mm

Hardened stainless steel
black diamond coating

colour coding: white

max 900 Rpm



IGSD230

FINAL GRADUATED DRILL

Ø 2.9 mm

Hardened stainless steel
black diamond coating

colour coding: yellow

max 900 Rpm



SD2923

FINAL GRADUATED DRILL

Ø 3.2 mm

Hardened stainless steel
black diamond coating

colour coding: red

max 800 Rpm



SD3226

FINAL GRADUATED DRILL

Ø 3.5 mm

Hardened stainless steel
black diamond coating

colour coding: green

max 800 Rpm



SD3529

FINAL GRADUATED DRILL

Ø 3.8 mm

Hardened stainless steel
black diamond coating

colour coding: blue

max 700 Rpm



SD3832

FINAL GRADUATED DRILL

Ø 4.1 mm

Hardened stainless steel
black diamond coating

colour coding: brown

max 700 Rpm



SD4135

PTERYGOID IMPLANT DRILLS

Hardened stainless steel
black diamond coating

Ø 2.3 max 900 Rpm
Ø 2.9 max 900 Rpm
Ø 3.2 max 800 Rpm



LD2320
Ø 2.3 mm



LD2923
Ø 2.9 mm



LD3226
Ø 3.2 mm

COUNTERSINK DRILL

Hardened stainless steel
black diamond coating

max 300 Rpm



STDPSILS

PARALLEL INDICATOR

Titanium Grade 5



PIN2329
Ø 2.3 / 2.9 mm 0°



PIN2317
Ø 2.3 / 2.9 mm 17°



PIN2330
Ø 2.3 / 2.9 mm 30°

DRILL EXTENSION

Hardened stainless steel



DEXT

BONE TAP MECHANICAL MANUAL

Hardened stainless steel
black diamond coating

max 40 Rpm



double thread **micro**

Diameter	Ref.
3.5 mm	TDLT350
4.0 mm	TDLT400
4.5 mm	TDLT450
5.0 mm	TDLT500



double thread **normo**

Diameter	Ref.
3.5 mm	TNT350
4.0 mm	TNT400
4.5 mm	TNT450
5.0 mm	TNT500

BONE TAP DRIVER

Hardened stainless steel



XCMRC8
extrashort



CMRC8
short



LMRC8
medium

MECHANICAL INSERTER FOR MINI CONICAL IMPLANTS

Hardened stainless steel
black diamond coating

max 50 Ncm



K1CINNS
short



K1CINNL
long

DRIVER INSERTER FOR MINI CONICAL IMPLANTS

disc: KN

Hardened stainless steel



K1DRINNS
short



K1DRINNL
long



K1DRINNEL
extralong

MECHANICAL INSERTER FOR STANDARD CONICAL IMPLANTS

Hardened stainless steel
black diamond coating

max 50 Ncm



K1CINRS
short



K1CINRM
medium



K1CINRL
long

DRIVER INSERTER FOR STANDARD CONICAL IMPLANTS

disc: KR

Hardened stainless steel



K1DRINRS
short



K1DRINRM
medium



K1DRINRL
long



K1DRINREL
extralong

CONVERTER MECHANICAL MANUAL

yellow disc

Hardened stainless steel



MDCM8

BONE MILL CYLINDRICAL

ø 5.0 mm

Hardened stainless steel
black diamond coating

max 300 Rpm



BMCIL



K1BMS
bone mill screw

BONE MILL CONICAL

ø 6.5 mm

Hardened stainless steel
black diamond coating

max 300 Rpm



BMCON



K1BMS
bone mill screw

MECHANICAL SCREWDRIVER FOR SCREWS

Hardened stainless steel
black diamond coating

hexagonal key 1.25 mm



MESSD
short



MEMSD
medium



MELSD
long



MEELSD
extralong

GRADUATED PARALLEL INDICATOR SCREW-RETAINED

Titanium Grade 5

laser markings each mm

mini conical



K1SWPN

standard conical



K1SWPR

SCREWDRIVER FOR ILS STRAIGHT BASE AND AESTHETIC ABUTMENT

disc: ILS

Hardened stainless steel

manual



MADD8

mechanical



MIAL

MANUAL SCREWDRIVER FOR SCREWS

disc: 1.25

Hardened stainless steel

hexagonal key 1.25 mm



SMSD8
short



MMSD8
medium



LMSD8
long



ELMSD8
extralong

ABUTMENT REMOVAL DRIVER

disc: 1.5 (mini)

disc: 2.1 (standard)

Hardened stainless steel

mini conical



K1ARDN

standard conical



K1ABS8
short



K1ABR8
long

SCREWDRIVER FOR BALL ABUTMENTS AND MICRO FIX SPHERE IMPLANTS

disc: SPHERE

Hardened stainless steel

manual



MBDD8

mechanical



MAXPS

DEPTH GAUGE GRADUATED

Stainless steel
with depth indicator and ruler



DIPSK1

TORQUE RATCHET

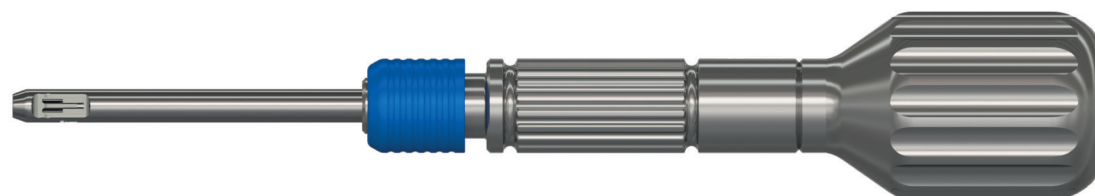
Hardened stainless steel
driver D8
torque 10÷70 Ncm



TR8

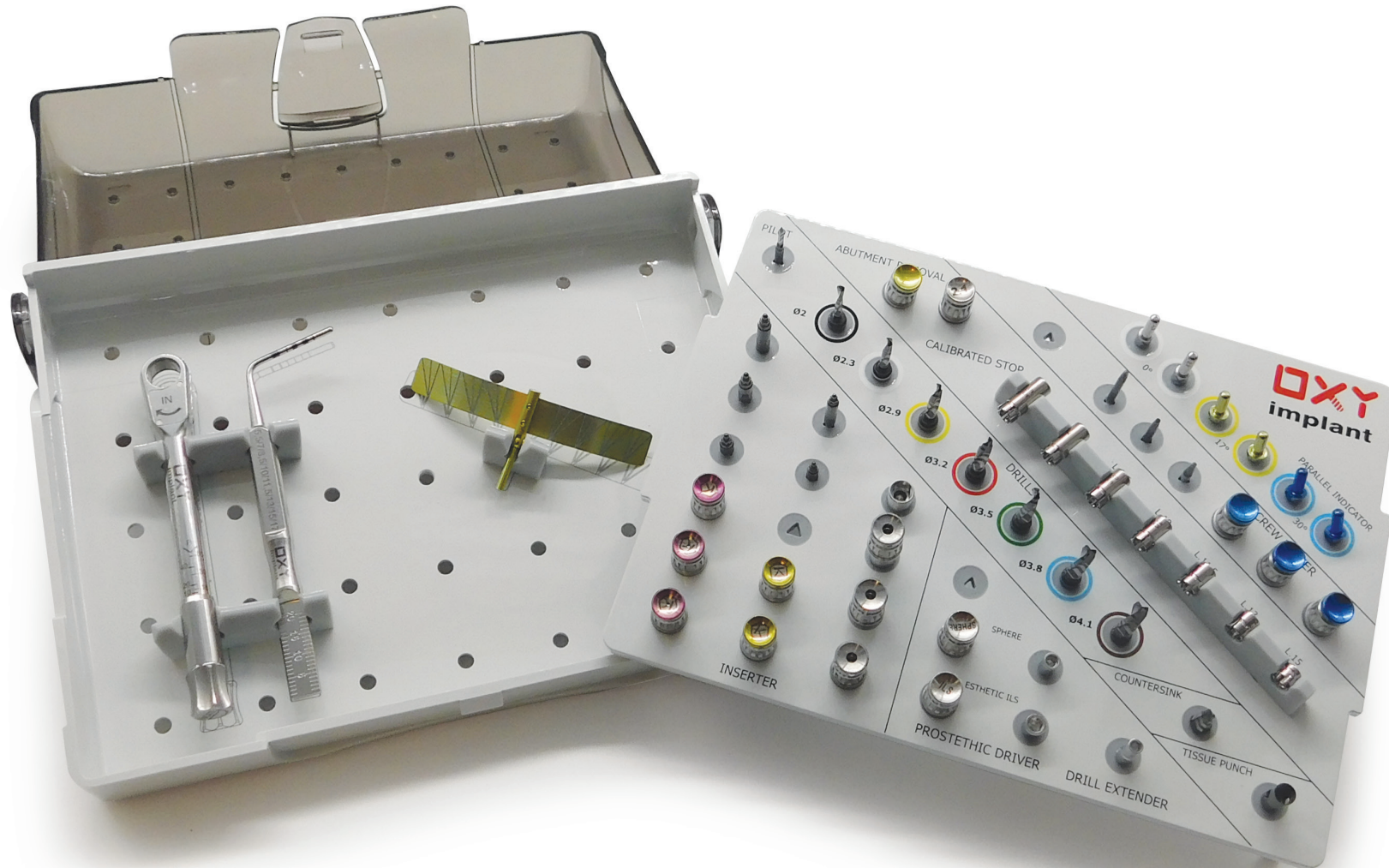
STRAIGHT KEY

Hardened stainless steel



DEK

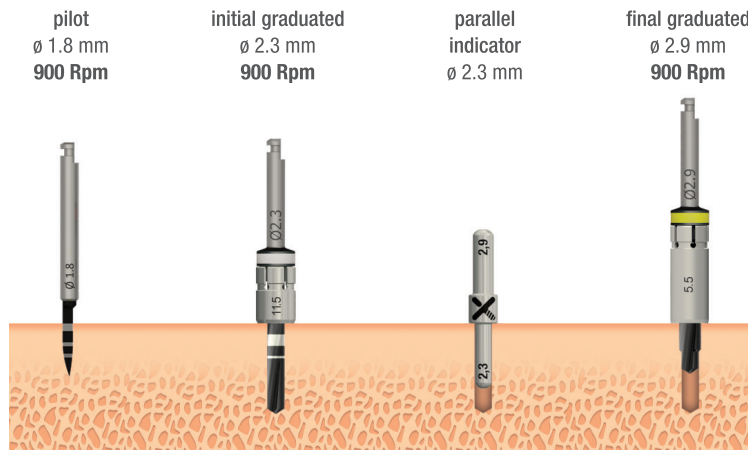
SURGICAL KIT



ref. TRPSKFIXO

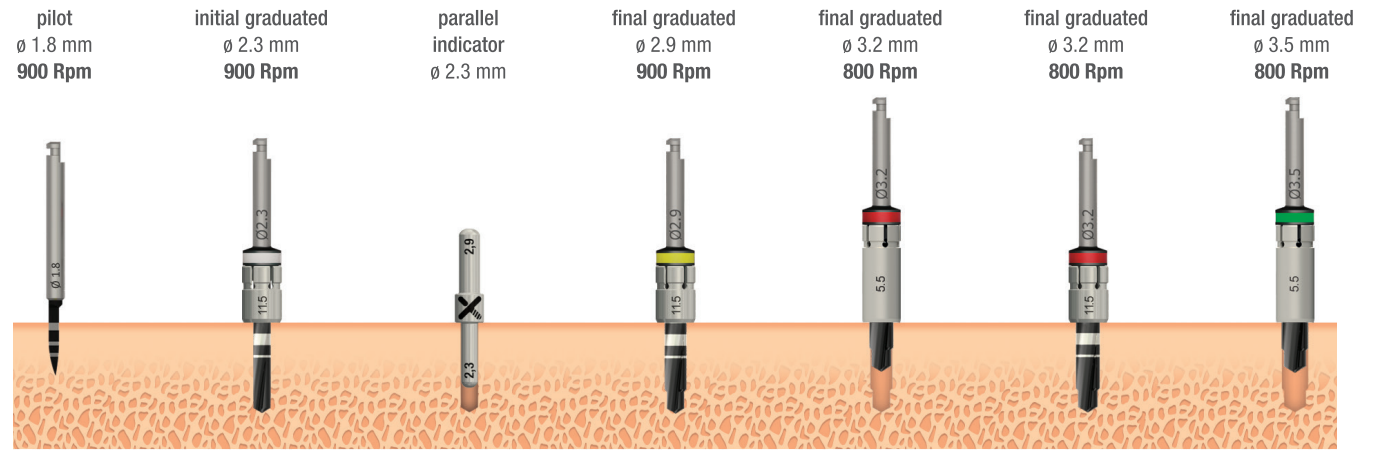
PSK LINE DRILLING SEQUENCE

for \varnothing 3.0 mm implants



with stop
L. 5.5 mm

for \varnothing 3.5 mm implants

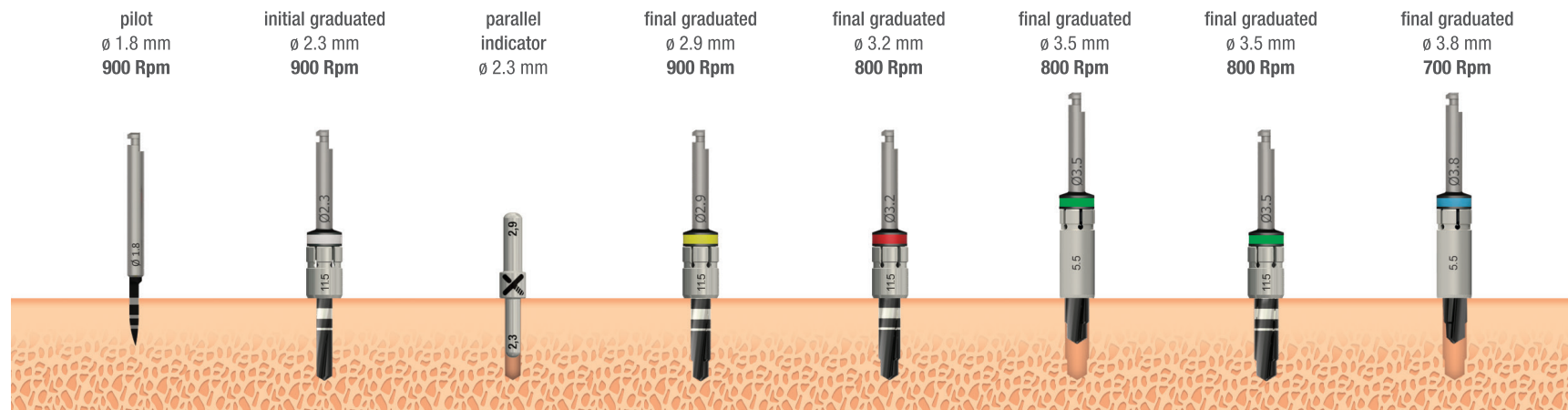


for D3 bone
with stop L. 5.5 mm
optional for D4 bone

for D2-D1 bone

for D2-D1 bone
with stop
L. 5.5 mm

for \varnothing 4.0 mm implants



for D4-D3 bone

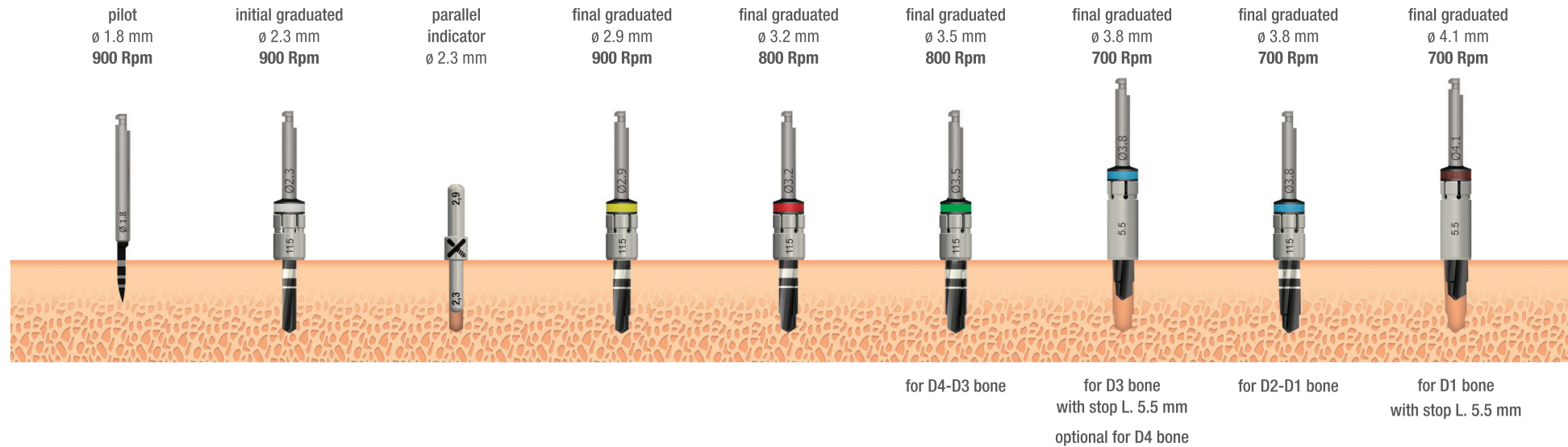
for D3 bone
with stop L. 5.5 mm
optional for D4 bone

for D2-D1 bone

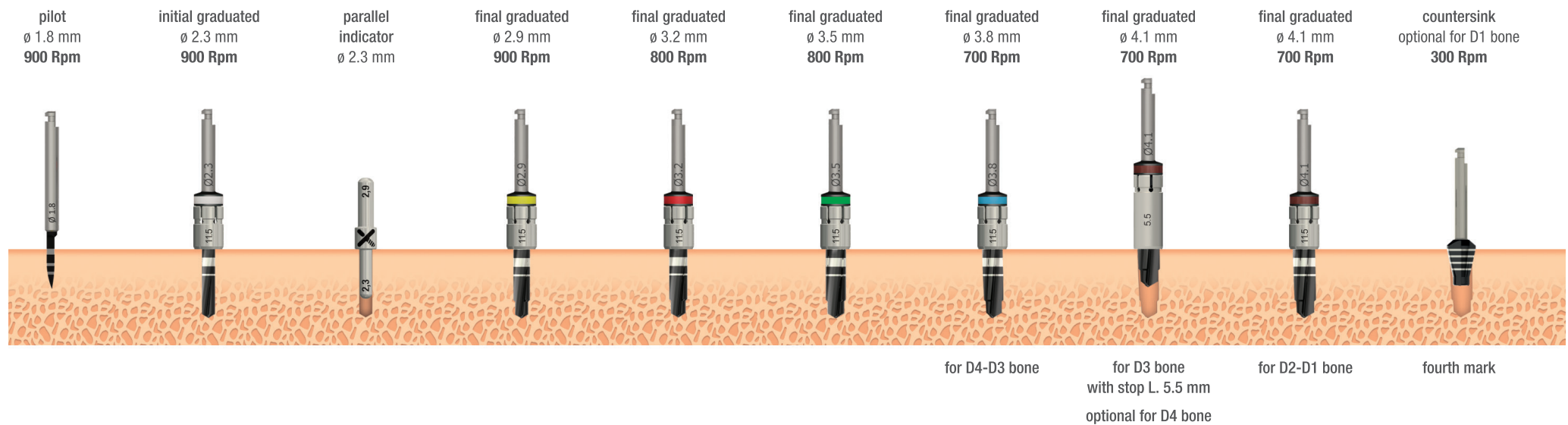
for D2-D1 bone
with stop L. 5.5 mm

PSK LINE DRILLING SEQUENCE

for \varnothing 4.5 mm implants



for \varnothing 5.0 mm implants



OXY GUIDED SURGERY KIT OGS



ref. TRGUIDEPSK

OGS OXY GUIDED SURGERY **SURGICAL INSTRUMENTS**

**PIN
DRILL**

Hardened stainless steel
black diamond coating
max 1000 Rpm



DPFGS

**FIXING PIN
FOR
TEMPLATE**

Stainless steel



PINGS

**TISSUE
PUNCH**

Hardened stainless steel
black diamond coating
max 100 Rpm



TPGS

**BONE LEVEL
DRILL**

Hardened stainless steel
black diamond coating
max 300 Rpm



OGSBL

**COUNTERSINK
PILOT DRILL**

Hardened stainless steel
black diamond coating
max 600 Rpm



CSGS

**INITIAL
CALIBRATED
DRILL**

Ø 2.3 mm

Hardened stainless steel
black diamond coating
max 900 Rpm



Length	Ref.
L. 6.0 mm	SD23060GS
L. 8.5 mm	SD23085GS
L. 10 mm	SD23100GS
L. 11.5 mm	SD23115GS
L. 13 mm	SD23130GS
L. 15 mm	SD23150GS

**CALIBRATED
DRILL**

Ø 2.9 mm

Hardened stainless steel
black diamond coating
max 900 Rpm



Length	Ref.
L. 8.5 mm	SD29085GS
L. 10 mm	SD29100GS
L. 11.5 mm	SD29115GS
L. 13 mm	SD29130GS
L. 15 mm	SD29150GS

**CALIBRATED
DRILL**

Ø 3.2 mm

Hardened stainless steel
black diamond coating
max 800 Rpm



Length	Ref.
L. 8.5 mm	SD32085GS
L. 10 mm	SD32100GS
L. 11.5 mm	SD32115GS
L. 13 mm	SD32130GS
L. 15 mm	SD32150GS

**CALIBRATED
DRILL**

Ø 3.5 mm

Hardened stainless steel
black diamond coating
max 800 Rpm



Length	Ref.
L. 8.5 mm	SD35085GS
L. 10 mm	SD35100GS
L. 11.5 mm	SD35115GS
L. 13 mm	SD35130GS
L. 15 mm	SD35150GS

**CALIBRATED
DRILL**

Ø 3.8 mm

Hardened stainless steel
black diamond coating
max 700 Rpm



Length	Ref.
L. 8.5 mm	SD38085GS
L. 10 mm	SD38100GS
L. 11.5 mm	SD38115GS
L. 13 mm	SD38130GS
L. 15 mm	SD38150GS

OGS OXY GUIDED SURGERY **SURGICAL INSTRUMENTS**

MOUNTER FOR GUIDED SURGERY

Hardened stainless steel

mini conical



K10GSMN

standard conical



K10GSMR

MOUNTER REMOVAL DRIVER

disc: 1.5 (mini)
disc: 1.8 (standard)

Hardened stainless steel

mini conical



K1ARDN

standard conical



K1AMRR

DRIVER CONVERTER 4x4 SQUARE

Hardened stainless steel

manual



SMRC8

mechanical



MAEX

extender



MCS4

SCREWDRIVER FOR SCREWS

disc: 1.25

Hardened stainless steel

hexagonal key 1.25 mm

manual



MMSD8
medium

mechanical



MEMSD

CYLINDRICAL BONE MILL

Hardened stainless steel
black diamond coating

max 300 Rpm



BMCIL



K1BMS
bone mill screw

CONICAL BONE MILL

Hardened stainless steel
black diamond coating

max 300 Rpm



BMCON



K1BMS
bone mill screw

OGS OXY GUIDED SURGERY **SURGICAL INSTRUMENTS**

SCREWDRIVER FOR ILS STRAIGHT BASE AND AESTHETIC ABUTMENT

disc: ILS

Hardened stainless steel

manual



MADD8

mechanical



MIAL

SLEEVE FOR TEMPLATE

Stainless steel



CGS

FIXING PIN SLEEVE

Stainless steel



CPINGS

BITE GAUGE

Stainless steel



BITEGAUGEPS

TORQUE RATCHET

Stainless steel

driver D8

torque 10÷70 Ncm



TR8



PATIENT'S GUIDE

Provides useful information to the patient to understand:

- what an implant is
- the aesthetic and functional advantages deriving from an implant treatment
- the surgical phases of an implant treatment
- the necessary precautions to ensure a long-lasting implant-prosthetic structure.




IMPLANT PASSPORT

Implant passport is an important document on which information on operation is recorded and the specific labels provided in the implants package are applied to ensure rapid and long-lasting traceability. The implant passport must be kept by the patient and brought to the doctor at every following checkup.



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DESIGN & PRODUCTION
 **100% OXY IMPLANT**
MADE IN ITALY