



FTK IMPLANT LINE



PRODUCT CATALOGUE
www.dentaltechworldwide.com

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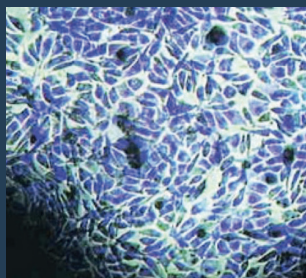
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BWS®

IMPLANT SURFACE

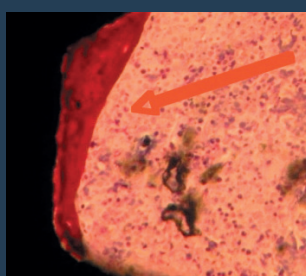
Osseointegration with over 30 years of history

OPTIMAL ROUGHNESS VALUE SANDBLASTING AND ACID ETCHING

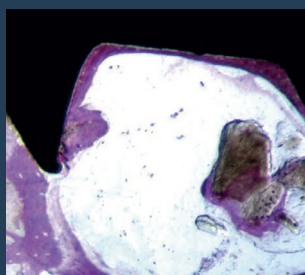


Sandblasting and etching processes of the implant surface allow to obtain optimal roughness values that make the adhesion of fibrin to the surface more tenacious and facilitate the bone healing process, significantly reducing the time.

CONTACT OSSEOINTEGRATION FIBRIN ADHERENCE

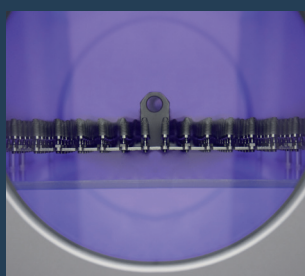


The capacity of BWS® to retain fibrin, lets osteoblasts migrate from the bone to the implant surface and reproduce there, generating new bone in direct contact with the titanium (contact Osseointegration).



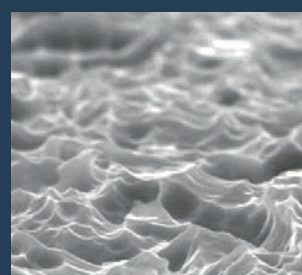
SEM CONTROL THE IMPLEMENTED PROTOCOL PROVIDES VERIFICATION OF EACH BATCH OF PRODUCTION

After the surface treatment and the classic washings, Dental Tech Implants are additionally cleaned with Argon Cold Plasma to minimize carbon contamination. Subsequently, minute controls are performed on the fixture with scanning electron microscopes (SEM).



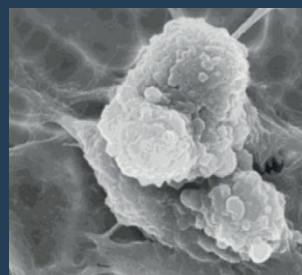
Argon Cold Plasma Treatment

Packaging takes place in controlled environments (Clean Room ISO 7) with packaging impermeable to micro organisms. A gamma-ray sterilisation process guarantees the destruction of all contaminants.



20 µm

SEM HV: 20.00 kV
SEM MAG: 4.82 kx
WD: 10.6470 mm
Det: SE Detector
View field: 62.05 µm
VEGA\\TESCAN DentalTech



2µm

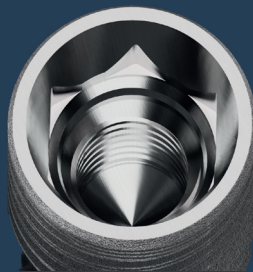
EHT = 18.00 kV
WD = 13 mm
Mag = 6.50 KX
Photo No. = 6159
Detector = SE1

BWS® surface is made by a sandblasting and acid etching process. This double process allow to obtain an extremely clean surface with a uniform and homogeneous roughness that promotes cell adhesion.

FTK IMPLANT LINE

Cylindrical / Conical

Conical sealing and hex connection
11° morse Taper locking
Internal hex connection

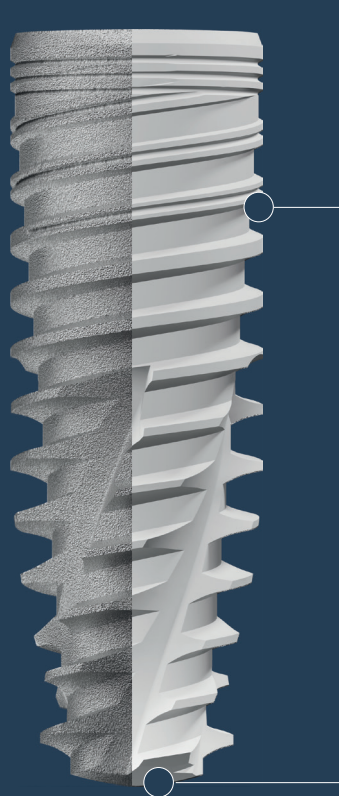


MICRO-GROOVES

Micro-grooves to limit bone resorption.
The implant's screwing axis can be adjusted.

BETTER PENETRATION

Spiral profile with hybrid progress: flat and radiating towards the root, triangular-shaped externally, for greater penetration into incompletely prepared sites.



APICAL

With helicoidal progress to enhance stable penetration.

DIAMETER - Ø 3.75 mm

Cover screw included

Warning! All DRP drills are 0.8 mm longer than the implant. In the planning stage and while drilling in proximity to vital anatomical structures, this added length must be considered.

*It is recommended if the cortical bone is very persistent



Length (L) mm	REF
8	PIK3708/S
10	PIK3710/S
11,5	PIK3711/S
13	PIK3713/S
16	PIK3716/S

Recommended surgical sequence



DIAMETER - Ø 4.25 mm

Cover screw included

Warning! All DRP drills are 0.8 mm longer than the implant. In the planning stage and while drilling in proximity to vital anatomical structures, this added length must be considered.

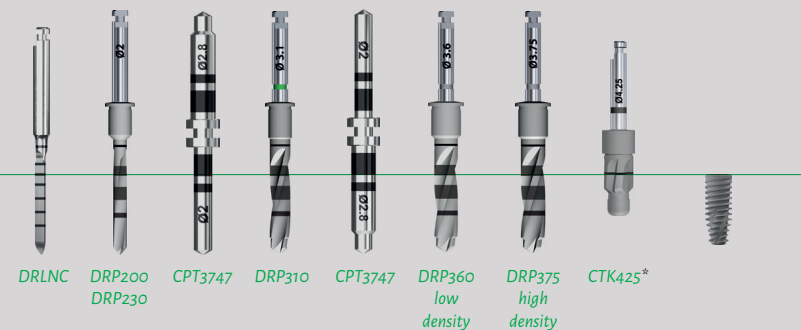
*It is recommended if the cortical bone is very persistent



Length (L) mm	REF
6	SIK4206/S
8	PIK4208/S
10	PIK4210/S
11,5	PIK4211/S
13	PIK4213/S
16	PIK4216/S



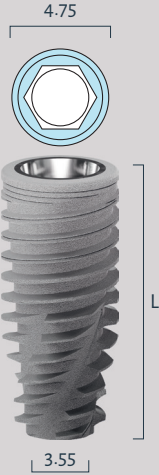
Recommended surgical sequence



DIAMETER - Ø 4.75 mm
Cover screw included

Warning!
All DRP drills are 0.8 mm longer than the implant. In the planning stage and while drilling in proximity to vital anatomical structures, this added length must be considered.

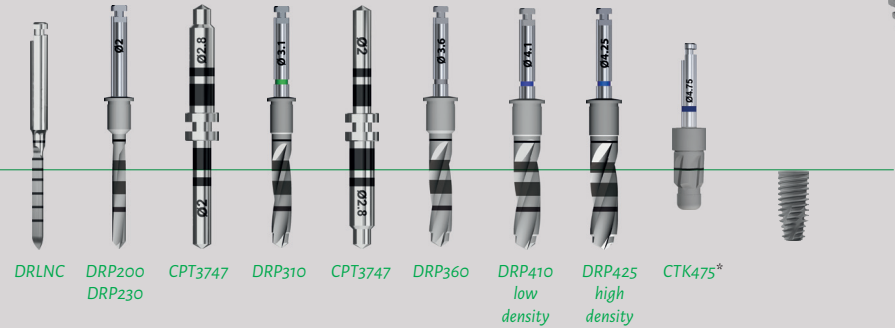
*It is recommended if the cortical bone is very persistent



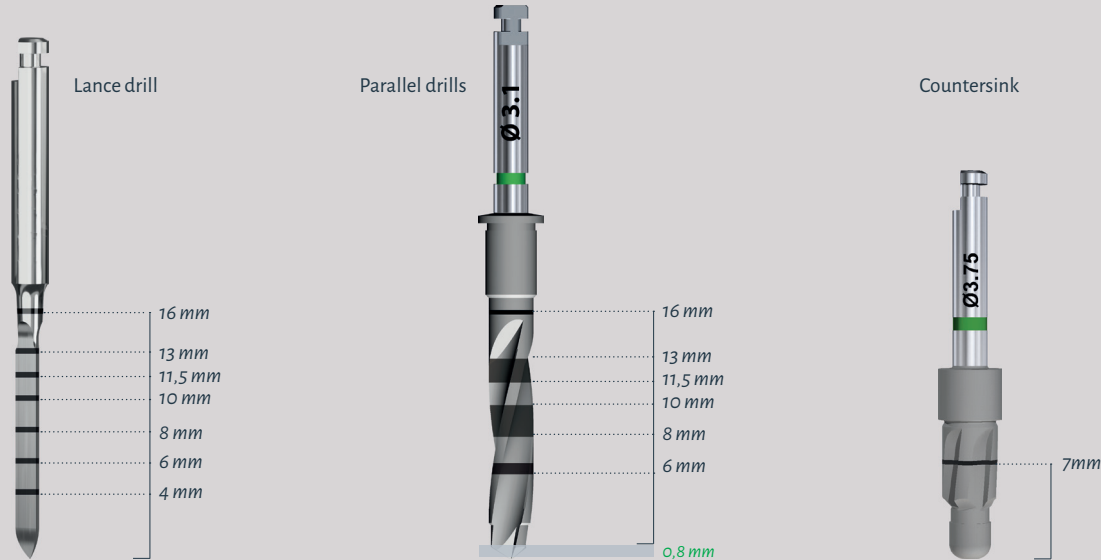
Length (L) mm	REF
6	SIK4706/S
8	PIK4708/S
10	PIK4710/S
11,5	PIK4711/S
13	PIK4713/S



Recommended surgical sequence



Drills - Reading depth notches and sharp drills
Lance drill - Parallel drills - Countersink



STOP Ø 4.5 mm Material: Ti5

Length (L) mm	REF
6	STC2506
8	STC2508
10	STC2510
11,5	STC2511
13	STC2513
16	STC2516

Drill Stop



Parallel drill L 23 mm Material: Inox

Diameter (Ø) mm	REF
2.0	DRP200
2.3	DRP230
2.8	DRP280
3.1	DRP310
3.25	DRP325

STOP Ø 5.5 mm Material: Ti5

Length (L) mm	REF
6	STC3406
8	STC3408
10	STC3410
11,5	STC3411
13	STC3413
16	STC3416



Parallel drill L 23 mm Material: Inox

Diameter (Ø) mm	REF
3.6	DRP360
3.75	DRP375
4.1	DRP410
4.25	DRP425



Implant length (L) mm



Countersink

Material: Inox

Diameter (Ø) mm	REF
3.75	CTK375
4.25	CTK425
4.75	CTK475

Drill Stop - Stop insertion and removal procedure

STOP insertion

Hold the drill on the stalk side and insert the stop, with the retentions facing the drill, until the point of contact with the metallic stop located on the drill itself. (Fig. 1 - 2 - 3).

STOP removal

Hold the stop and remove the drill by pulling on the stalk side.

Depth STOP for different lengths. The advantages:

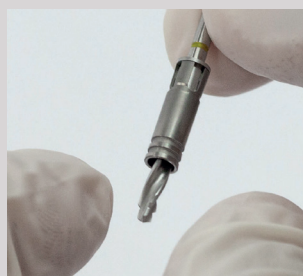
- » Optimal check-depth during preparation of the surgical site, even in conditions of poor visibility of the operating field;
- » Reduction of surgical risk;
- » Reduction of operator stress;
- » Greater safety for the patient;
- » Easy Stop insertion and removal from the drills and greater safety in the surgical phase for the doctor and assistant.



1



2

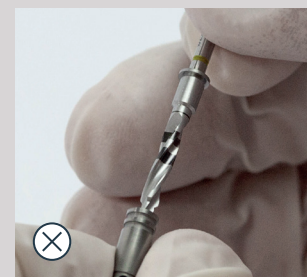


3

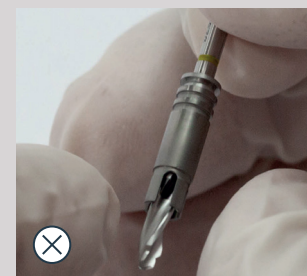


Warning WRONG insertion STOP

Stop insertion with the retentions facing the tip of the drill is incorrect. (fig. 4 - 5).



4



5

Recommended surgical sequence and drill speed

Ø	IMPLANT	3.75	4.25	4.75
R.P.M. 600/900 max	DRILL			
	2.0/2.3	✓	✓	✓
	2.8	✓	✓	✓
	3.1	S	✓	✓
	3.25	R-D		
	3.6		S	✓
	3.75		R-D	
	4.1			S
	4.25			R-D
	CTK375	⊙		
R.P.M. 600/900 max	CTK425		⊙	
	CTK475			⊙

LEGEND

REQUIRED ✓

OPTIONAL ⊙

Bone texture:

REGULAR BONE **R**

DENSE BONE **D**

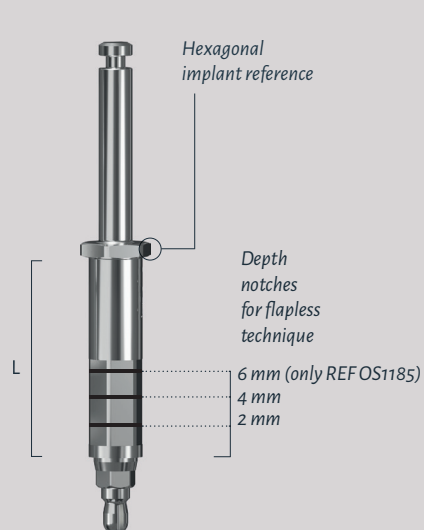
SOFT BONE **S**

Warning! In the table "Recommended surgical sequence and drill speed" parameters should be considered as general indications; the clinical evaluation should always be subjected to careful analysis by the practitioner in each specific case.

Based on the clinical features and bone consistency detected at the time of implant surgery, the choice of the available instrumentation will be made by the practitioner.

Screwdrivers

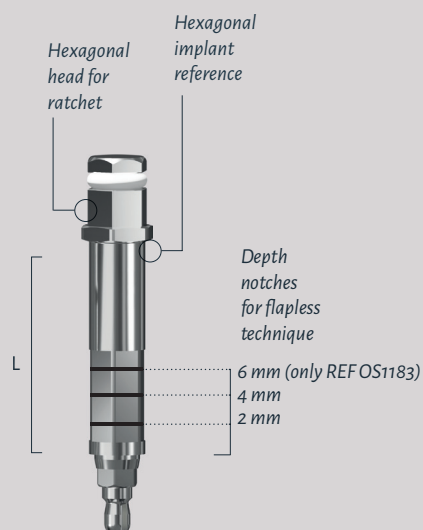
Implant CA connection - Implant ratchet connection



Implant CA connection

REF OS1184

L 9 mm



Implant ratchet connection

REF OS1182



REF OS1185

L 14 mm



Allows removal of the implant from the ampoule and its insertion in the surgical site using the contra-angle screwdriver.
Material: Inox

REF OS1183



A tool to be connected to the ratchet to complete insertion of the implant. It does not permit removal as it does not have an O-Ring seal. Material: Inox

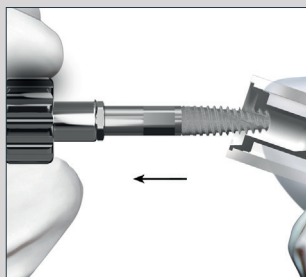
Dynamometric ratchet REF CCD070



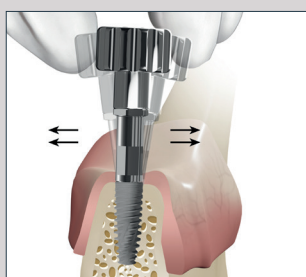
Hand wheel REF AMCo16



Screwdrivers - Implants insertion procedure



6



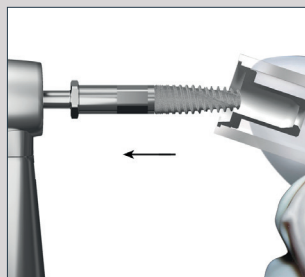
7

With manual screwdriver

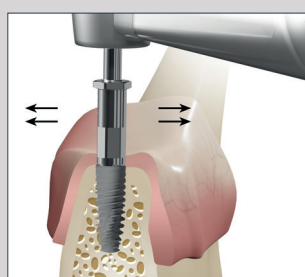
Insert the screwdriver (REF OS1182 - OS1183), connected to the handwheel (REF AMCo16), into the implant making a slight rotation to allow good matching of the two octagons (implant - screwdriver) and remove the implant (Fig. 6).

Begin insertion of the implant in the alveolar surgical site using the manual screwdriver. Where bone density permits, it is possible complete insertion of the implant using the manual wrenches (Fig. 7).

To remove, exercise a slight lateral movement, right and left, in order to free the matching (Fig. 7). With contra-angle implant connection



8



9

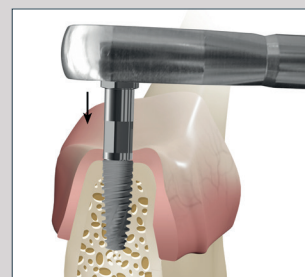
With contra-angle implant connection

Insert the direct contra-angle screwdriver (REF OS1184 - OS1185) into the implant with a slight rotating motion to allow the correct coupling of the two hexagons (implant - screwdriver) and remove the implant (Fig. 8).

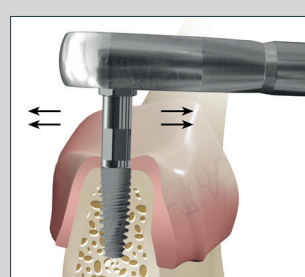
Begin insertion of the implant in the alveolar surgery (Fig. 9) after having set the following parameters on the surgical unit:

- » Bi-phase procedure (submerged) RPM 15-20. Torque max. 35-40 Ncm
- » Monophasic procedure realized with submerged implants and healing screws, with deferred load RPM 15-20. Torque max. 40-45 Ncm
- » Monophasic procedure with immediate load/prosthesis RPM 15-20. Torque is incremental from 20 to 70 Ncm

If a surgical unit with good torque control is available, both in quantity and quality, it is possible to terminate insertion of the implant with the contra-angle; if the opposite is true, insert the device in the alveolar surgery as long as the power of the machine permits and complete the insertion manually proceeding as follows →



10



11

To remove, exercise a slight lateral movement, right and left, in order to free the matching (Fig. 9).

Implant ratchet connection

Ensure that the tool is inserted in the position suitable for screwing and turn until the implant reaches the desired position (Fig. 10).

Complete the insertion of the implant using the dynamometric wrench connected to the direct screwdriver of the ratchets (REF OS1182 - OS1183). At times it is necessary to use the extension (REF 110026) to connect to the tools described above.

To remove, exercise a slight lateral movement, right and left, in order to free the matching (Fig. 11).

Components for cemented/screwed prosthesis

Parallel healing abutment

Material: Ti5

8/10 Ncm Lock manually



H	REF
2	OS1127
4	OS1128
6	OS1129



Taper healing abutment

Material: Ti5

8/10 Ncm Lock manually



H	REF
2	OS1124
4	OS1125
6	OS1126



Open tray impression coping

Material: Ti5

Fastening screw included and available as a replacement (pack. 2 pcs.) REF VOS1110

8/10 Ncm Lock manually

Ø	ML	REF	
4.2	OS	OS1110	Taper



Implant analog

Material: Ti5

ML	REF
OS	OS1111



Fastening screw included and available as a replacement (pack. 2 pcs.) REF VFOSAP



Straight abutment

Material: Ti5

(pack. 10 pcs.)

20Ncm Torque adapter
REF TW0001

Ø	ML	REF
4.2	OS	OS1137



Straight abutment

Material: Ti5

20Ncm Torque adapter

REF TW0001

H	Ø	ML	REF
1,5	4.2	OS	OS1138
3	4.2	OS	OS1139



Angled abutment

Material: Ti5

20Ncm Torque adapter

REF TW0001

H	Ø	ML	REF
1,5	4.2	OS15	OS1140
1,5	4.2	OS25	OS1142
3	4.2	OS15	OS1141
3	4.2	OS25	OS1143



Castable abutment

Material: Pmma

20Ncm Torque adapter

REF TW0001

ML	REF
OS	OS1114
OS	OS1115



Overcast abutment

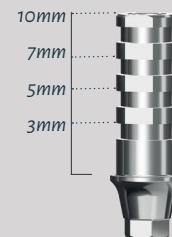
Material: CRCO

20Ncm Torque adapter

REF TW0001

REF
CCK-HE
CCR-KR

Cutting line for
use in digital
environment



Cylinder abutment

Material: Ti5

20Ncm Torque adapter

REF TW0001

ML	REF
OS	OS1112
OS	OS1113

Components for MUA screwed prosthesis

Protection cap

Material: Peek
Package 2 pcs.
Fastening screw included and available as a replacement (pack. 2 pcs.) REF VPCEM
8/10Ncm Lock manually
Use only on abutments from REF OS1130 to OS1136



REF

HPM4100



MUA straight abutment

Material: Ti5
Supplied with transfer handle
20Ncm Torque adapter REF TW0080

H	Ø	REF
1,5	4.8	OS1130
3	4.8	OS1131
4,5	4.8	OS1132



MUA angled abutment

Material: Ti5
Supplied with transport and parallelization screw, fastening screw included and available as a replacement (pack. 2 pcs.) REF VFOSAP
20Ncm Torque adapter REF TW0001

H	Ø	ML	REF
1,5	4.8	OS17°	OS1133
3	4.8	OS17°	OS1134
1,5	4.8	OS30°	OS1135
3	4.8	OS30°	OS1136



MUA precision transfer (PDM/PPM)

Material: Ti5
Fastening screw included and available as a replacement (pack. 2 pcs.) REF VFTEM
8/10Ncm Lock manually

REF

HTM4106



MUA abutment analogue (PDM/PPM)

Material: Ti5

REF

HLM0041



Titanium abutment / MUA bonding base

Material: Ti5
Fastening screw included and available as a replacement (pack. 2 pcs.) REF VPCEM
8/10Ncm Lock manually

REF

HMT0041



Overcast abutment MUA

Material: CRCO
Fastening screw included and available as a replacement (pack. 2 pcs.) REF VPCEM
8/10Ncm Lock manually

REF

CCM-02



Castable abutment MUA

Material: Pmma
Fastening screw included and available as a replacement (pack. 2 pcs.) REF VPCEM
8/10Ncm Lock manually

REF

HMC4100

Prosthetic components for digital flow



WARNING
DO NOT orient
the Scan Abutment
in other unsuitable
positions.



Always match the
smaller portion of
the Scan Abutment,
which is oriented on
the hexagon side of
the connection, with
the milling on the
cylindrical portion of
the digital analog
body.



Scan abutment

Material: Ti5

Fastening screw included and available as a
replacement (pack. 2 pcs.) REF HFF2010

8/10Ncm Lock manually

Digital CAD-CAM intraoral scan and laboratory
scan. For single cemented and screwed elements.
For multiple cemented elements.

ML	REF
OS	OS1122

Digital analog

Material: Ti5

Analog for digital models, specific for applications
through the manufacture of models made with
3D printing/prototyping. The characteristic shape
with rounded edges, allows easy insertion into the
model seat, without interference and friction with
the resinous material of the models.

The apical screw allows to always obtain a total
working stability. *This prosthetic component must be
used through the Dental Tech Libraries.*

ML	REF
OS	OS1123



Bonding base for angled screw channel (T-Base)

Material: Ti5

Fastening screw included and
available as a replacement
(pack. 2 pcs.)

20Ncm Torque adapter

REF 200011/200012/TW0015C

H	REF	Prosthetic screw
0,5	OS1148	350014
1,5	OS1149	350015
3	OS1150	350016



Use only the dedicated fixing
screws, recognizable by the
laser marking



Bonding base Sirona

Material: Ti5

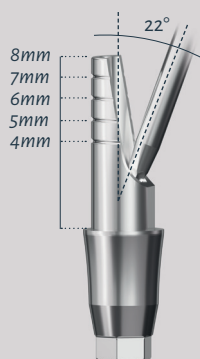
Fastening screw
included and available as a
replacement (pack. 2 pcs.)
REF VFOSAP

20Ncm Torque adapter REF TW0001

Digital CAD-CAM and traditional
bonding technique.

For single cemented and screwed
elements. For multiple cemented
elements.

H	REF
0,5	OS1116
1,5	OS1118
3	OS1120
0,5	OS1117
1,5	OS1119
3	OS1121



Every T-base for
angled screw
channel must
keep the dedicated
prosthetic screw in
order to maintain
the maximum
inclination capacity
of 22° of the
screwing tool,
whose deformation
limit is 30Ncm.

Prosthetic components for digital flow - Connection on MUA



REF

SCANMA

Scan abutment

Material: Ti5
Fastening screw included and available as a replacement (pack. 2 pcs.) REF VPCEM
8/10Ncm Lock manually
Suitable for digital CAD-CAM technique for intraoral and laboratory scans. For multiple screw-retained elements.



REF

HLM0041DG

Digital analog

Material: Ti5
Analog for digital models, specific for applications through the manufacture of models made with 3D printing/prototyping. The characteristic shape with rounded edges, allows easy insertion into the model seat, without interference and friction with the resinous material of the models. The apical screw allows to always obtain a total working stability.
This prosthetic component must be used through the Dental Tech Libraries.

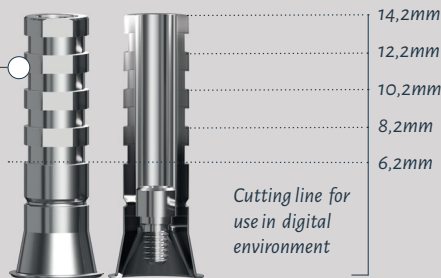


REF

BCMHEX

MUA bonding base

Material: Ti5
Fastening screw included and available as a replacement (pack. 2 pcs.) REF VPCEM
8/10Ncm Lock manually
Digital CAD-CAM bonding technique.

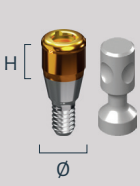


Overdenture prosthetic components



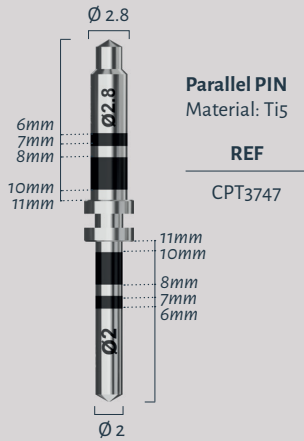
Overdenture abutment

Material: Ti5
Transfer included
20Ncm Torque adapter REFADL150

	H	REF
	0,5	OS1144
	1	OS1145
	2	OS1146
	4	OS1147

Retention compatible with
Zest LOCATOR®

Instruments



Parallel PIN
Material: Ti5

REF

CPT3747



Surgical screwdriver
Material: Inox

REF

PGI 100



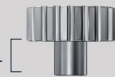
Extension for drill
Material: Inox

L mm

9

REF

KI589



Hand wheel
Material: Ti5

L mm

6

REF

AMCo16



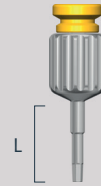
Extension
Material: Inox

L mm

12,5

REF

110026



Screw driver
Material: Inox

L mm

4,5

REF

GMX100

Micro

11,5

GMM250

Extra short

13,5

001152

Long

Depth gauge
Material: Ti5

REF

001140



16 mm

14,5 mm

13 mm

11,5 mm

10 mm

8,5 mm

8 mm

6 mm



Dynamometric ratchet

REF

CCD070



MUA abutment adaptor
Material: Inox

REF

TW0080



Screwdrivers adaptor
Material: Inox

REF

TW0001C

Short

TW0001L

Long



Adaptor for dynamometric ratchet
Material: Inox

L mm

7

REF

ISO370



Hex screwdriver for dynamometric ratchet bonding bases for angled screw channel (T-Base)
Material: Inox

L mm

16

REF

TW0015C



Hex screwdriver for contra-angle bonding bases for angled screw channel
Material: Inox
Deformation limit is 30 Ncm

L mm

16

REF

200011

Short

21

200012

Long



Hex screwdriver
Material: Inox

L mm

8

REF

CCG0024

Short

14

CCG0030

Long



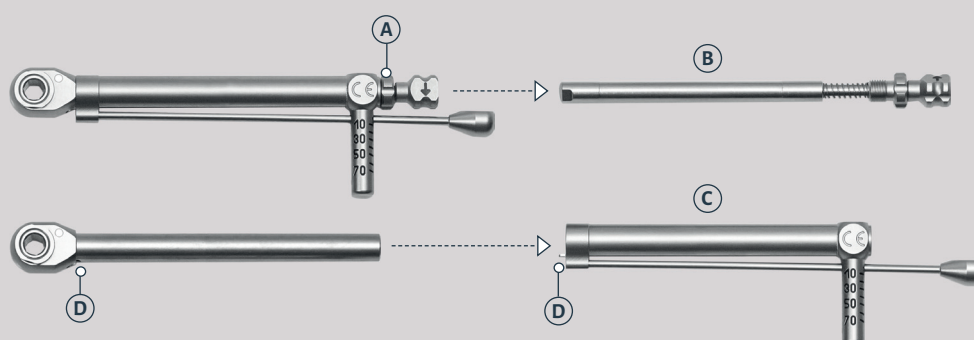
Adaptor for overdenture abutment
Material: Ti5

REF

ADL150

Dynamometric ratchet cleaning and maintenance

CCD070



The dynamometric ratchet, after each use, must be disassembled for cleaning. This maintenance operation does not require any tools. Completely unscrew the screw **(A)**, remove the whole pawl **(B)** and then the flexible dynamometric bar **(C)**. Once disassembled, clean according to the instructions for use

and maintenance attached to the device, brush with non-metallic rigid bristles, even in hollow areas with pipe cleaner for a complete removal of biological residues. Once the cleaning and disinfection phase has been completed, reassemble the ratchet using the reverse disassembly procedure,

making sure to match the pin **(D)** in the housing dedicated.

Preliminary indications for surgical instrument use

PREVENTION

Besides correct and continuous long-term maintenance, wear and tear of the instruments can also be prevented and slowed down. In the first place every instrument must only be used for the envisaged and indicated use.

The instruments used must be cleaned immediately after the end of surgery. Remove residue and encrustations only with soft brushes and NOT with metal brushes.

When envisaged, disassemble the instruments and deeply clean the cavity. The devices must be fully immersed in the most appropriate detergents or disinfectants for the material, and left to rest for a period of time that never exceeds the manufacturer's instructions. After disinfecting them, rinse thoroughly with water and dry the devices with a clean and dry cloth. Complete with a jet of compressed air.

PACKAGING AND STERILITY

- » Dental Tech tools are supplied as non sterile in heat-sealed Pouches in containing the leaflet.
- » Dental Tech tools can be used again and therefore it has to be washed and sterilised prior to their usage.

Dental Tech validated the following cleansing and disinfection method:

MANUAL CLEANING

- » Just after the use of Dental Tech equipment, place the equipment into a container with a peracetic acid based solution at concentration of 2% (NO GLUTARALDEHYDE OR SODIUM HYPOCHLORITE), as long as 18 minutes.
- » After-ward rinse carefully.

MANUAL DISINFECTION

- » Place the equipment into a container with a peracetic acid based solution at concentration of 4% (NO GLUTARALDEHYDE OR SODIUM HYPOCHLORITE), as long as 15 minutes.
- » Rinse generously
- » Examine the equipment and make sure there are no organic remains. Carefully scrub the outer parts with a non-metal bristled brush.

MANUAL RINSE

- » Place the equipment into ultrasound bath, and wash it for approx. 18 minute and then rinse carefully.

DRY

- » Perfectly dry the equipment, seal it individually with material suitable for moist heat sterilisation.

STERILIZATION

- » Dental Tech validated the following Autoclave moist heat sterilization cycle: 3 minutes - 134 °C
- » Since Dental Tech tools are manufactured in different materials, they shall be washed and sterilized one by one.

CHECK

After the cleaning phases, check that none of the instruments presents signs of corrosion, contamination or damage. Especially use a magnifying lens to check the most concealed areas, the joints and the handles.

If any contamination is detected, repeat the cleaning procedure.

In case of damage, dispose of the instrument as established by the laws in force for waste management.

Warning *The use of suitable protection during cleaning and sterilisation of contaminated instruments enhances personal safety during these phases.*

PRESERVATION

After the sterilisation phase, the instruments must be preserved in the sterilised package in a dry, dust-free place, far from heat sources. The bags must only be opened before use. The storage period of sterilised items must not exceed the period recommended and indicated on the bag.

DISPOSAL PROCEDURES

At the end of its life the medical device must be disposed of according to the methods established by national laws in force for waste management.

INSTRUMENT FOR SURGERY

The surgical instrumentation of the Dental Tech Implant System is simple and essential, responding to every clinical need and treatment protocol. All drills and components are laser marked, to allow preparation of the implant site correctly to the established depth, and a predictable and safe positioning of the implant. The instruments are available individually or in sets with different types of surgical kit.

HOW TO USE THE SURGICAL INSTRUMENTS

So as not to cause mechanical and/or thermal damage to bone tissue in the zone in which the implant is to be inserted, and to obtain a congruous surgical site (indispensable to achieving good osseointegration of the implant) some fundamental rules must be respected:

- » Use drills with gradual diameter progression: the same instruments must not be used for more than 25 osteotomies;
- » Do not exceed 800 RPM during the osteotomy;
- » Do not exceed 20 RPM in the event of tapping with the contra-angle;
- » Ensure, during the osteotomy, that the instruments work in axis;
- » Do not exert lateral pressure during the osteotomy and tapping;
- » The osteotomy must be performed exercising light pressure and back and forth movements on the axis of the instrument;
- » Use generous irrigation with physiological solution, both during drilling and tapping of the surgical site;
- » Ensure that during the intervention the irrigation canals of the instruments are clear;
- » Avoid categorically, during surgery, the cooling of instruments and the implant site with the air-water syringes tips.
- » For taps, during preparation of the site with the drills, don't set forces greater than 55N/cm with micromotors equipped with the control-TORQUE device.

NON-ROTATING INSTRUMENT

The non-rotating instrument is compatible with all Dental Tech implant systems.

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WARNINGS

RESPONSABILITY
The use of non-original components, produced by third-parties may compromise the functionality of the implants and their elements, compromising the final result and voiding the guarantee of the manufacturer. The application of the product occurs outside the control of Dental Tech and is the sole responsibility of the end user. We accept no liability for any damage resulting from such activities.

INSTRUCTIONS FOR USE
These are to be considered solely as recommendations. This information is not sufficient and does not exempt the user from ensuring the adequacy of the product for its intended use through continued training.
For more information about Dental Tech instruments and prosthetic components, consult the page:
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MATERIALS LEGEND

CrCo	Cobalt-chrome alloy
Inox	Surgical stainless steel
Ptfe	Polytetrafluoroethylene
Peek	Polyetereeterechetone
Pmma	Polymethylmethacrylate
Ti5	Titanium gr.V ELI for medical use
Plastic	Polymer

PACKAGING SYMBOLS LEGEND



Lot number



Sterilized by gamma rays



Not sterile



Product code

RIUTILIZZABILE

Reusable



Use by



Non-reusable



Attention, consult
the supplied documentation



Directive 93/94/CEE
conformity mark



0123
Notified body identification

