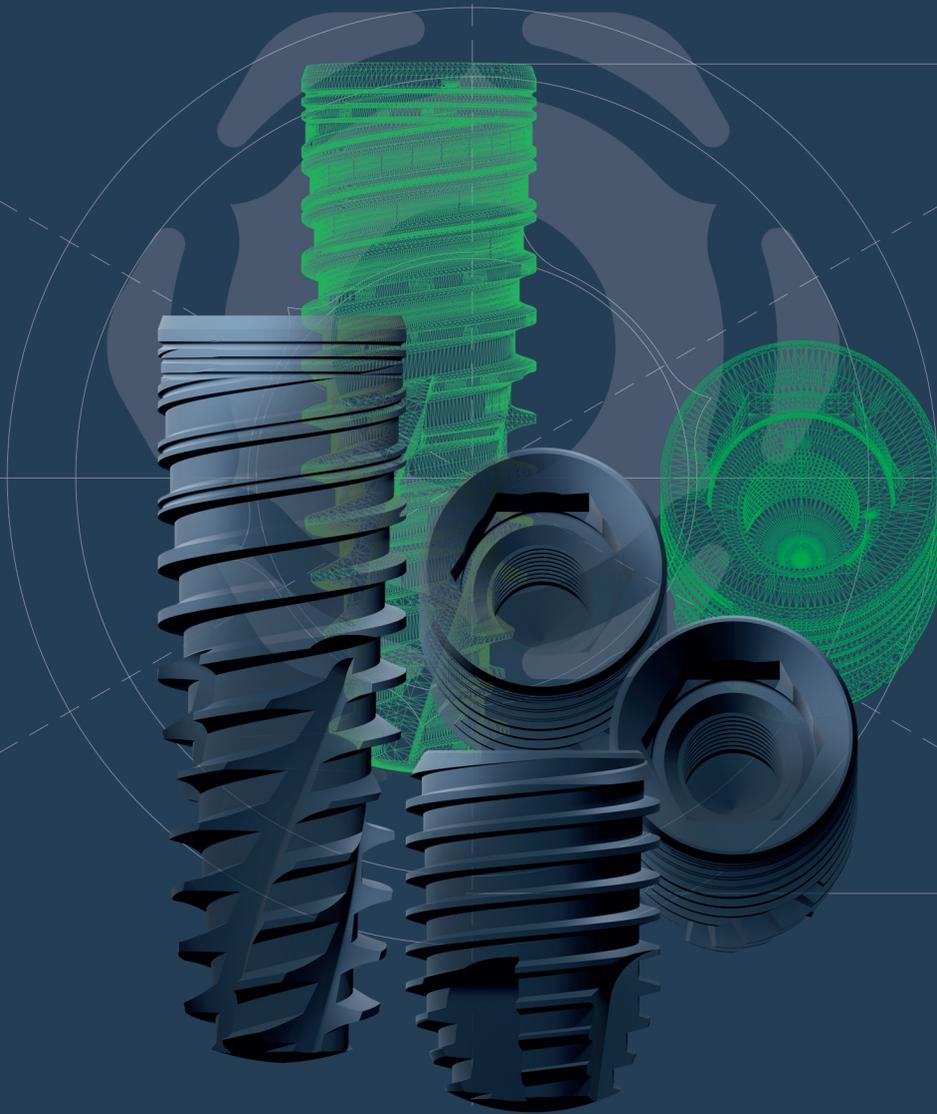


FTZ
IMPLANT LINE



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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).

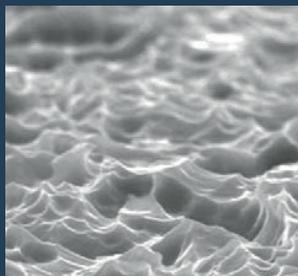
SEM CONTROL THE IMPLEMENTED PROTOCOL PROVIDES VERIFICATION OF EACH BATCH OF PRODUCTION

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).

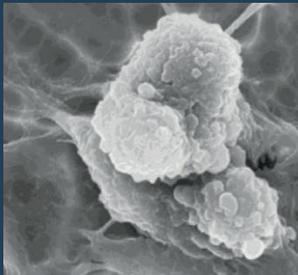
Packaging takes place in controlled environments (Clean Room ISO 7) with packaging impermeable to micro organisms.

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.

FTZ IMPLANT LINE
PARALLEL
Cylindrical / Conical

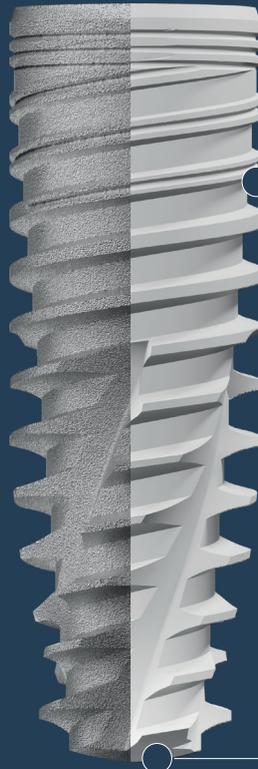


MICRO-GROOVES

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	PIZ3708/S
10	PIZ3710/S
11,5	PIZ3711/S
13	PIZ3713/S
16	PIZ3716/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	SIZ4206/S
8	PIZ4208/S
10	PIZ4210/S
11,5	PIZ4211/S
13	PIZ4213/S
16	PIZ4216/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.

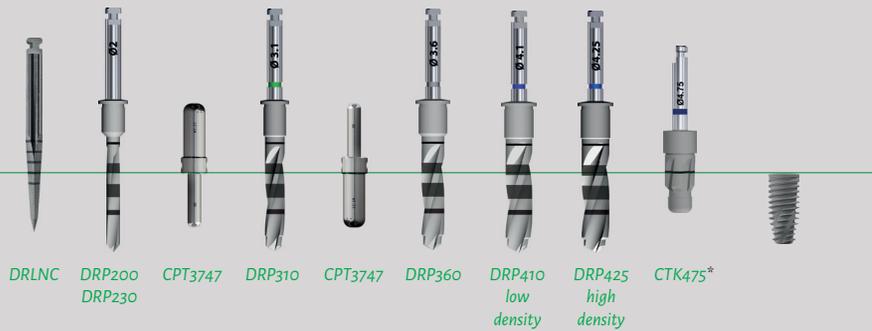
*It is recommended if the cortical bone is very persistent



Length (L) mm	REF
6	SIZ4706/S
8	PIZ4708/S
10	PIZ4710/S
11,5	PIZ4711/S
13	PIZ4713/S



Recommended surgical sequence



Drill Stop

STOP Ø 4.5 mm Material: Ti5

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



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



Recommended surgical sequence and drill speed

Ø	IMPLANT	IMPLANT			
		3.25	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
	R.P.M. 600/900 max	CTK325	⊙		
CTK375			⊙		
CTK425				⊙	
CTK475					⊙

LEGEND

REQUIRED	✓
OPTIONAL	⊙

Bone texture:

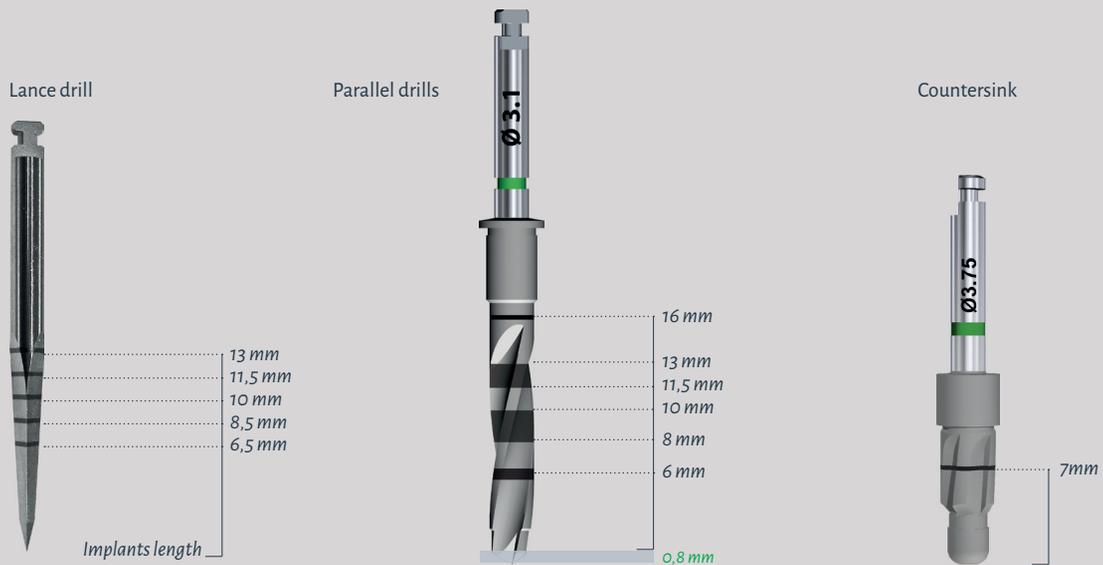
REGULAR BONE	R
DENSE BONE	D
SOFT BONE	S

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.

Drills - Reading depth notches and sharp drills

Lance drill - Parallel drills - Countersink



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

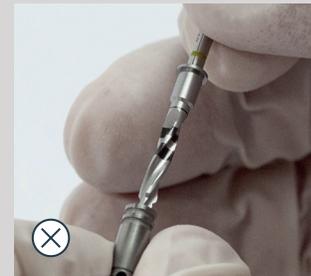


3



Warning WRONG insertion STOP

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



4



5

Screwdrivers

Implant CA connection - Implant ratchet connection

		<p>Hexagonal implant reference</p> <p>Depth notches for flapless technique</p> <p>6 mm 4 mm 2 mm</p> <p>Implant CA connection</p>	<p>Hexagonal head for ratchet</p> <p>Hexagonal implant reference</p> <p>Depth notches for flapless technique</p> <p>6 mm 4 mm 2 mm</p> <p>Implant ratchet connection</p>
		REF CAS-ZIM	REF 20.004
REF DRO375	<p>Ø 3.75 L 6 mm Short</p>	<p>REF CAL-ZIM</p>	<p>REF 20.005</p>
	<p>Ø 3.75 L 11 mm Long</p>	<p>Allows removal of the implant from the ampoule and its insertion in the surgical site using the contra-angle screwdriver. Material: Inox</p>	<p>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</p>

Dynamometric ratchet REF CCD070



Screwdrivers - O-Ring replacement tool

DRO375

The tool facilitates replacement of the O-Ring on screwdrivers.



Warning

The O-Ring support tool is made of PMMA and, therefore, it cannot be sterilised in an autoclave.



A

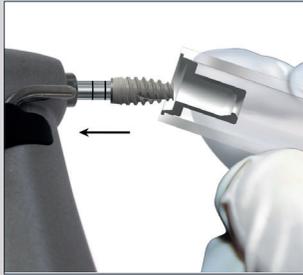


B



C

Screwdrivers - Implants insertion procedure



6



7

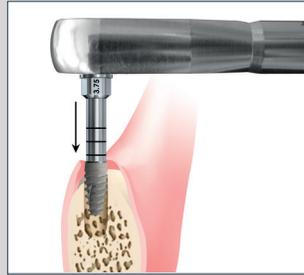
With contra-angle implant connection

Insert the direct contra-angle screwdriver into the implant with a slight rotating motion to allow the correct coupling of the two hexagons (implant - screwdriver) and remove the implant (Fig. 6).

Begin insertion of the implant in the alveolar surgery (Fig. 7) 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 →



8



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. 8).

Complete the insertion of the implant using the dynamometric wrench connected to the direct screwdriver of the ratchets (REF 20.004 - 20.005). At times it is necessary to use the extensions, short REF PMC115 and long REF 110026 to connect to the tools described above (Fig. 9).

Components for cemented/screwed prosthesis

Parallel healing abutment

Material: Ti5
8/10 Ncm Lock manually



H	REF
2	ZPH1001
4	ZPH1002
6	ZPH1003



Taper healing abutment

Material: Ti5
8/10 Ncm Lock manually



H	REF
2	ZTH1004
4	ZTH1005
6	ZTH1006

Taper large healing abutment

Material: Ti5
8/10 Ncm Lock manually



H	REF
2	ZTL1007
4	ZTL1008
6	ZTL1009



Open tray impression coping

Material: Ti5
Fastening screw included and available as a replacement (pack. 2 pcs.) REF 05010VF
8/10Ncm Lock manually



Closed tray impression coping

Material: Ti5
Fastening screw included and available as a replacement (pack. 2 pcs.) REF 02023VF
8/10Ncm Lock manually

Ø	ML	REF	
4.5	Z	ZOT1010	Taper
5.6	ZL	ZOL1011	Taper Large
3.5	Z	ZOP1012	Parallel

Ø	ML	REF	
4.5	Z	ZCT1013	Taper
3.5	Z	ZCP1014	Parallel



Implant analog

Material: Ti5

ML	REF
Z	ZIA1076



Fastening screw included and available as a replacement (pack. 2 pcs.) REF 020022



Straight abutment

Material: Ti5
20Ncm Torque adapter
REF TW0001

Ø	ML	REF
3.75	Z	ZSA1015



Straight abutment

Material: Ti5
20Ncm Torque adapter
REF TW0001

H	Ø	ML	REF
1,5	4.5	Z	ZSA1016
3	4.5	Z	ZSA1017
1,5	5.5	ZL	ZSA1018
3	5.5	ZL	ZSA1019



Angled abutment

Material: Ti5
20Ncm Torque adapter
REF TW0001

H	Ø	ML	REF
1,5	4.5	Z15	ZAA1020
1,5	4.5	Z25	ZAA1021
3	4.5	Z15	ZAA1022
3	4.5	Z25	ZAA1023
1,5	5.5	ZL15	ZAA1024
1,5	5.5	ZL25	ZAA1025
3	5.5	ZL15	ZAA1026
3	5.5	ZL25	ZAA1027



Castable abutment

Material: Pmma
20Ncm Torque adapter
REF TW0001

REF
ZPA1028
ZPA1029



Straight abutment

Material: Ti5
(pack. 10 pcs.)
20Ncm Torque adapter
REF TW0001

Ø	ML	REF
4.5	Z	MFR3765



Overcast abutment

Material: CRCO
20Ncm Torque adapter
REF TW0001

REF
CCZ-HE
CCR-ZM

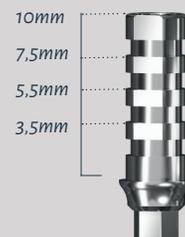


Temporary cylinder

Material: Peek
20Ncm Torque adapter
REF TW0001

ML	REF
Z	ZTC1030
Z	ZTC1031

Cutting line for use in digital environment



Cylinder abutment

Material: Ti5
20Ncm Torque adapter
REF TW0001

ML	REF
Z	ZCA1032
Z	ZCA1033

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 PDM and PPM abutments



ML

ZM

REF

ZPC1036



MUA straight abutment

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

H	Ø	REF
1	4.8	ZMS1037
3	4.8	ZMS1038



MUA angled abutment

Material: Ti5
 Supplied with transport and parallelization screw, fastening screw included and available as a replacement (pack. 2 pcs.) REF 020510VF
 20Ncm Torque adapter REF TW0001

H	Ø	ML	REF
1	4.8	17°	ZMA1039
3	4.8	17°	ZMA1040
1	4.8	30°	ZMA1041
3	4.8	30°	ZMA1042



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 05.085
8/10Ncm Lock manually
Digital CAD-CAM intraoral scan and laboratory scan. For single cemented and screwed elements. For multiple cemented elements.



ML	REF
Z	ZSN1048



ML	REF
Z	ZD11049

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.*



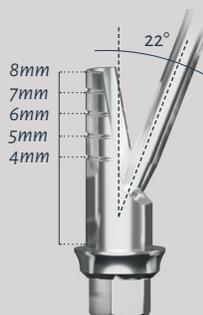
Bonding base for angled screw channel (T-Base)

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	ZBA1050	ZVA1073
1	ZBA1051	ZVA1074
2	ZBA1052	ZVA1075



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



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.



Bonding base Sirona

Material: Ti5
Fastening screw included and available as a replacement (pack. 2 pcs.)
REF 05.085

H	REF
0,5	ZBS1053
1	ZBS1054
2	ZBS1055
0,5	ZBS1056
1	ZBS1057
2	ZBS1058

20Ncm Torque adapter
REF TW0001
Digital CAD-CAM and traditional bonding technique. For single cemented and screwed elements. For multiple cemented elements.

also available
ONLY digital file
H 3mm



Bonding base

Material: Ti5
Fastening screw included and available as a replacement (pack. 2 pcs.)
REF 05.085
20Ncm Torque adapter
REF TW0001

ML	REF
Z	BSTHX35
Z	BSRHX36

Digital CAD-CAM and traditional bonding technique. For single cemented and screwed elements. For multiple cemented elements.

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

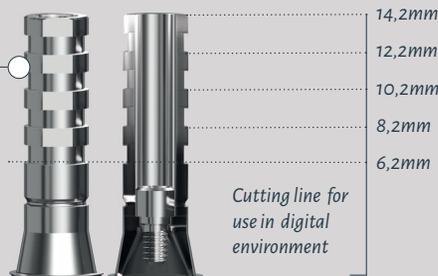
Material: Ti5

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



Abutment Duallock®

Material: Ti5

Transfer included REF IMCDS

20Ncm Torque adapter REFADL150



H	REF
1	ZAD1062
2	ZAD1063
3	ZAD1064
4	ZAD1065
5	ZAD1066

Retention compatible with
Zest LOCATOR®

Sphere abutment

Material: Ti5

20Ncm Torque adapter

REF RDS225



H	REF
0,5	ZSA1067
1,5	ZSA1068
3	ZSA1069
5	ZSA1070



Sphere analog

Material: Ti5

REF

AAF225

O-ring

Material: Ti5

Package 10 pcs.



REF

POR225



REF

ORG225

Retention compatible with
Ø 2.25 Sphere RHEIN83®

Instruments



Parallel PIN
Material: Ti5

REF

CPT3747



Surgical screwdriver
Material: Inox

REF

PGI100



Extension for drill
Material: Inox

L mm

REF

9

KI589



Hand wheel
Material: Ti5

L mm

REF

6

AMCo16



Extension
Material: Inox

L mm

REF

12,5

110026



Screw driver
Material: Inox

L mm

REF

4,5

GMX100

Micro

11,5

GMM250

Extra short

13,5

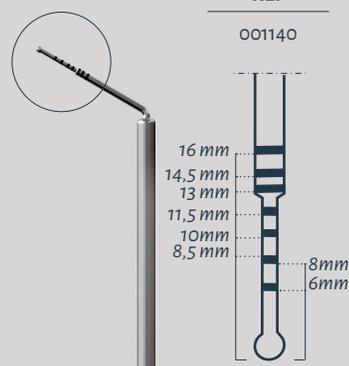
001152

Long

Depth gauge
Material: Ti5

REF

001140



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

REF

7

ISO370



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

L mm

REF

16

TW0015C



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

L mm

REF

16

200011 Short

21

200012 Long



Hex screwdriver
Material: Inox

L mm

REF

8

GCG0024

Short

14

GCG0030

Long



Adaptor for sphere abutment Ø 2.25
Material: Inox

REF

RDS225



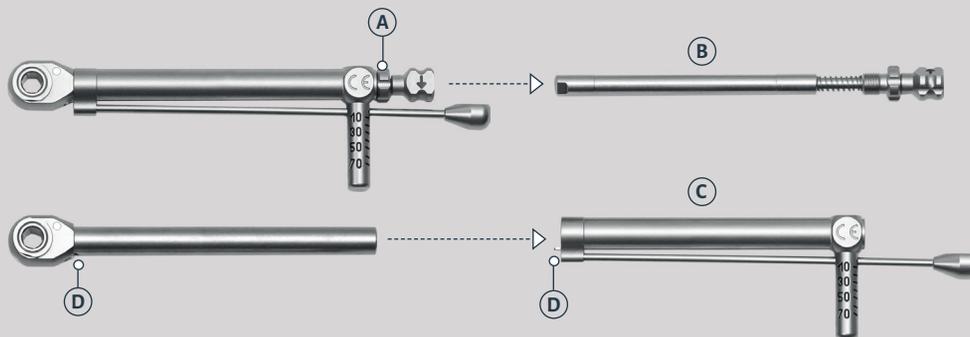
Adaptor for Dualock® abutment
Material: Ti5

REF

ADL150

Dynamometric ratchet cleaning and maintenance

CCDo70



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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MATERIALS LEGEND

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

PACKAGING SYMBOLS LEGEND

LOT

Lot number

STERILE R

Sterilized by gamma rays

NON STERILE

Not sterile

REF

Product code

RIUTILIZZABILE

Reusable



Use by



Non-reusable



Attention, consult
the supplied documentation



Directive 93/94/CEE
conformity mark



0123
Notified body identification



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