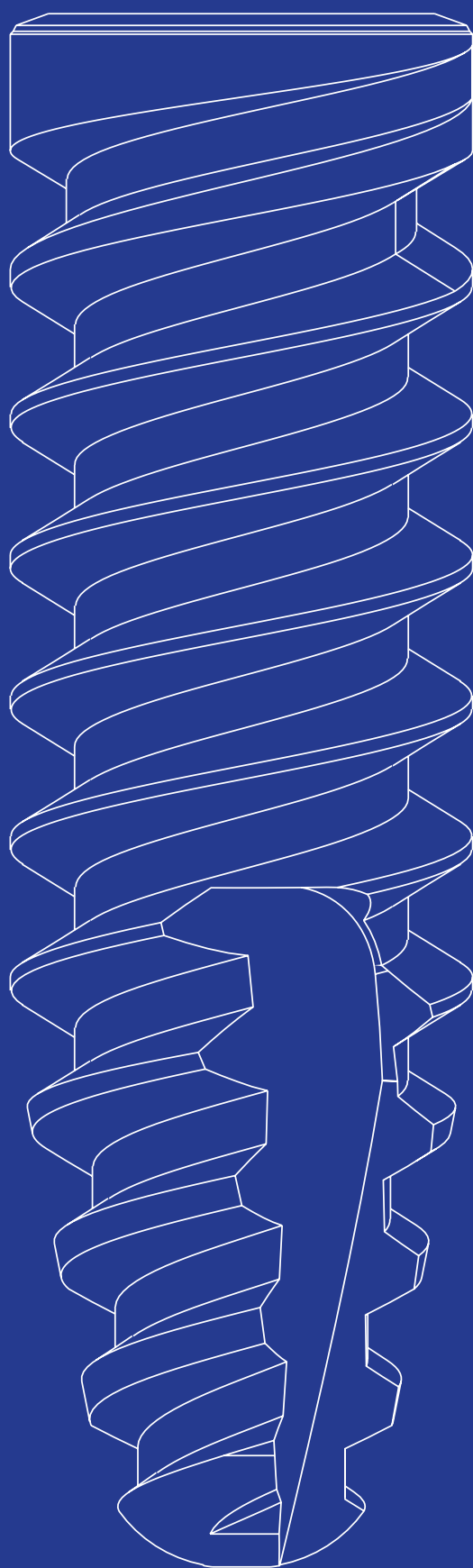


CATALOGUE TOP DM



Since its founding in 1992, Bioner's activities have been geared to supplying the Spanish implant market. In recent years Bioner has begun its international expansion without compromising the values that have driven its growth: the precision and quality of its products, the ongoing collaboration with professionals and prestigious organizations, and a first order technical and commercial service.



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IMPLANT DESIGN

Top DM implant System, a versatile advanced solution

Bioner has placed all the technical and scientific know-how gained over 25 years of history at the service of the TOP DM system, an implant that optimises the management and care of patient tissues to obtain excellent short and long-term results.

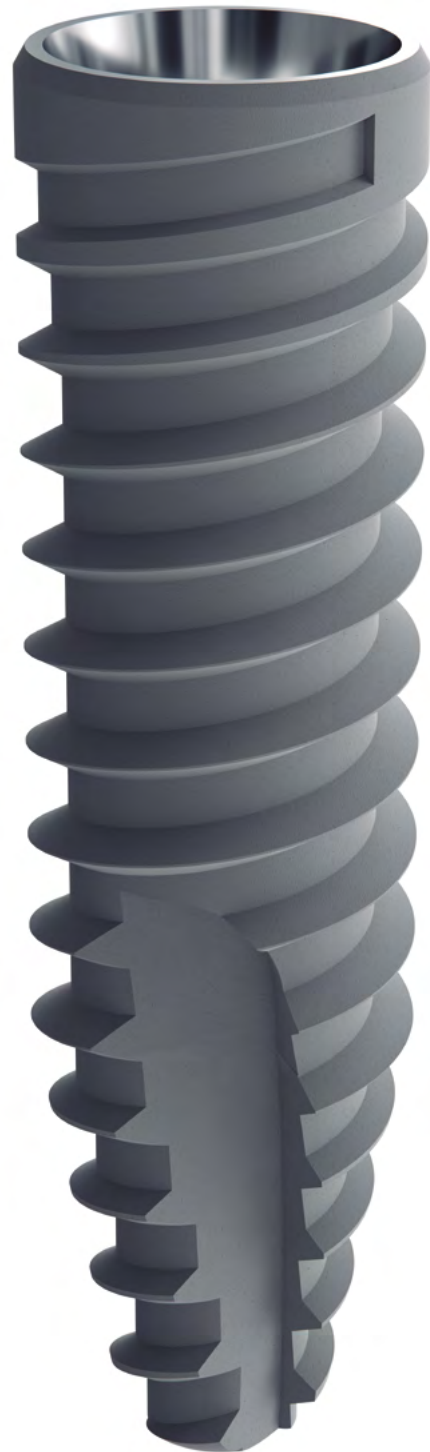
TOP DM is designed with an expanding cone-shaped core of increasing diameter from the apical to the coronal area, thus favouring insertion in areas with low bone volume.

Its dual pitch thread and neutral apex endure quick, safe insertion and optimal primary stability, ideal for performing post-extraction surgery and immediate loading.

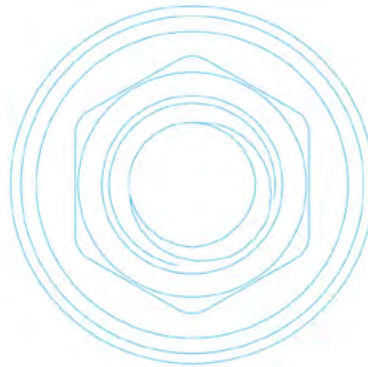
The TOP DM implant is made from grade 5 titanium, a material that allows working with small diameters with great precision. The use of this alloy, combined with the indexed conical connection, minimises micro-movements and gaps between components.

Its versatile design enables infraosseous insertion, minimising marginal bone loss and improving the aesthetic result of the restoration. All implant diameters share a unique connection that simplifies prosthetic work and reduces the range of components the user must have in stock.

The emergence profiles of all prosthetic components are consistent with one another to simplify abutment interchange.



IMPLANT DESIGN



Indexed hexagonal conical connection.

24° cone. Stable implant-prosthesis connection.

Grade 5 titanium.

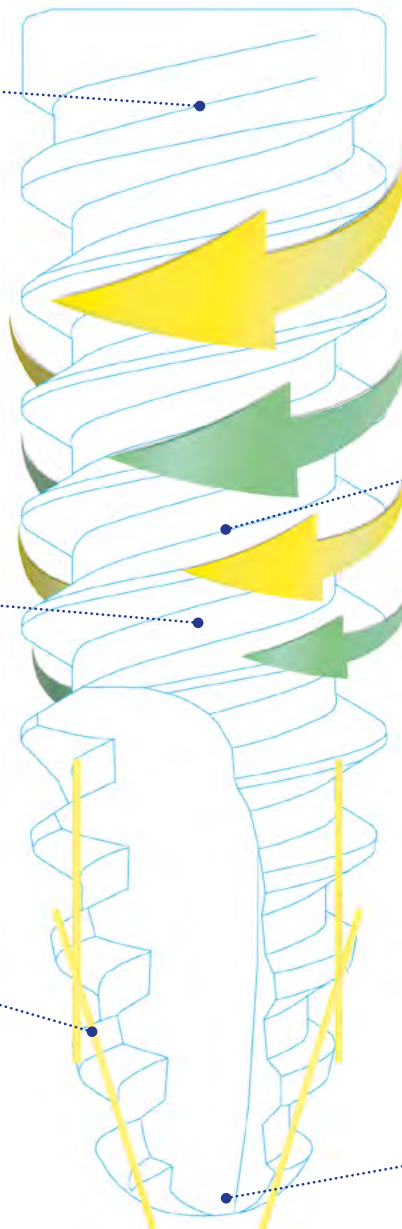
Maximum stability and reliability in the prosthetic connection.

Unique 3 mm connection

for all implant diameters. Simplifies management of prosthetic components.

Straight neck + Spiral up to the platform.

Subcrestal placement. Simplifies insertion through the cortical, reducing post-surgical tension and preventing marginal bone loss.



Dual pitch thread

for fast, easy insertion. Pitches of 1.8 (DM-35), 2.5 (DM-40) and 2.4 (DM-50).

Bioetch Surface®

Rapid osseointegration.

Conical cylinder shape

Expansive capacity, especially in the Ø3.5 mm implant

Neutral 2 mm apex.

Insertion/ expansion capacity.

BIOETCH® SURFACE

Bioetch®, the best surface in grade 5 Titanium

A change in the **technological Standard**: macro and micro texturised surfaces obtained by etching with acid without sand-blasting.

The TOP DM implant is Bioner's response to the requirements of modern implantology: to provide stable internal connections with reduced diameter implants. For this reason, it is made of grade 5 titanium.

Classical treatment of grade 5 titanium implants includes sand-blasting. This procedure gives the implants an adequate surface morphology but, as various studies have shown, makes it practically impossible to completely eliminate the particles used in this process, which remain adhered to the implant surface. This is even the case for implants that undergo acid etching after sand-blasting.

With its patented Bioetch® surface treatment system, Bioner ensures the ideal surface for its TOP DM implants without any need for sand-blasting, thus eliminating the risk of surface contamination. The Bioetch® treatment consists of double acid etching to produce a macro and micro textured surface that stimulates osseointegration and shortens load time.

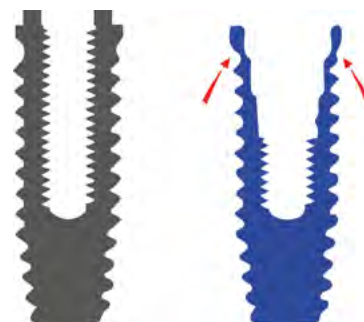


Fig. 1 Internal connections and reduced diameters weaken implant walls.

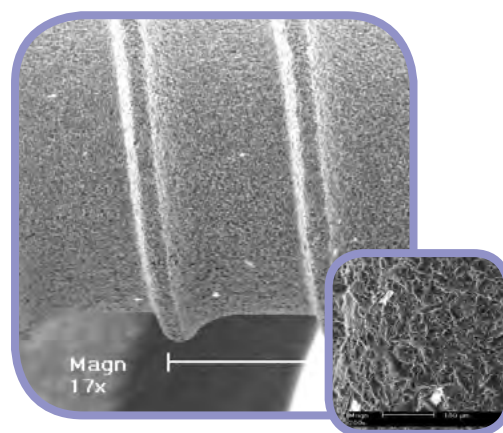


Fig. 2 Traditional sand-blasting processes inevitably generate incrustrated particles that contaminate the implant surface.

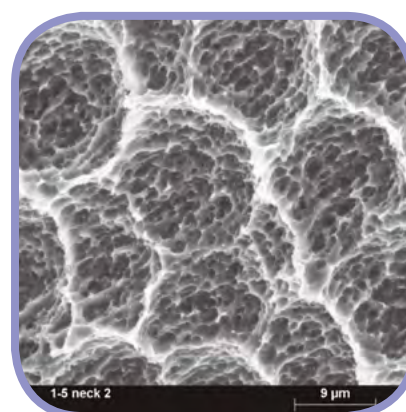
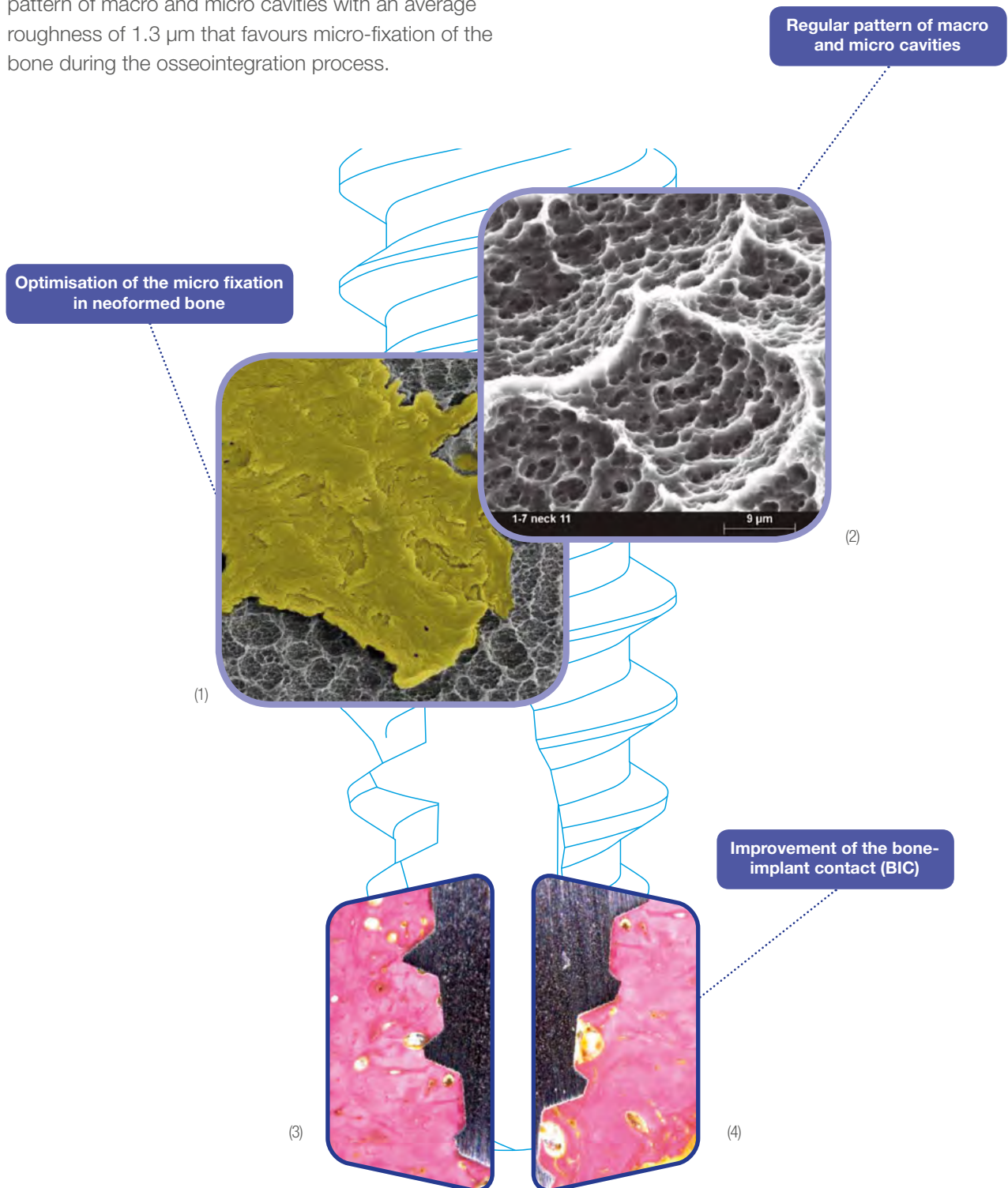


Fig. 3 Bioetch® ensures a regular pattern of macro and micro cavities by using dual acid etching without sand-blasting.

Characteristics of the Bioetch® surface

The Bioetch® surface is characterised by a very regular pattern of macro and micro cavities with an average roughness of 1.3 µm that favours micro-fixation of the bone during the osseointegration process.



(1) Mag 2700X.

(2) Mag 500X.

(3, 4) "Influence of a new implant design to prevent crestal bone reabsorption and increase bone implant contact. A histomorphometric study in American Foxhound dogs." Calvo-Guirado JL, Maté Sánchez de Val JE, Ramírez Fernández MP, Pérez-Albacete Martínez C, Delgado Ruiz RA, Gehrke SA, Domínguez Fernández M..

IMPLANT PRESENTATION

Sizes available

TOP DM is available in 3 different diameters of 3.5, 4 and 5 mm to cover all regenerative needs, from the reconstruction of small parts up to the rehabilitation of posterior areas and even for use in aesthetic areas. TOP DM is available in lengths from 7 mm to 15 mm in all diameters.

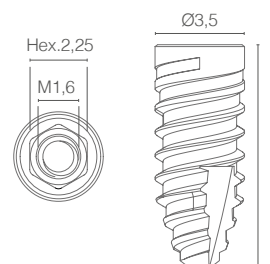
For severe cases of atrophy, Bioner offers the SHORT DM line of implants available in lengths of 4, 5 and 6 mm.



Ø3.5



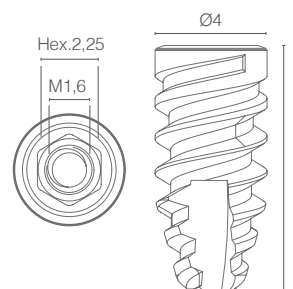
DM-357	L 7
DM-3585	L 8,5
DM-3510	L 10
DM-35115	L 11,5
DM-3513	L 13
DM-3515	L 15



Ø4



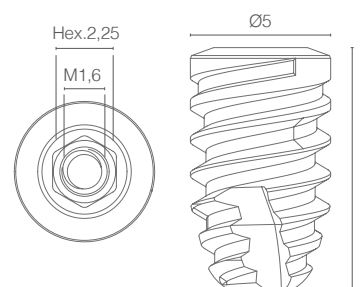
DM-47	L 7
DM-485	L 8,5
DM-410	L 10
DM-4115	L 11,5
DM-413	L 13
DM-415	L 15



Ø5



DM-57	L 7
DM-585	L 8,5
DM-510	L 10
DM-5115	L 11,5
DM-513	L 13
DM-515	L 15



IMPLANT PRESENTATION

Packaging

The packaging of TOP DM implants is especially designed, on the one hand, to handle easily during surgery and, on the other, to simplify storage and fast identification of the different sizes.

The outer label consists of three stickers showing the basic implant identification information (reference and batch No.). One of these stickers may be affixed to the implant passport Bioner provides to its customers.

Opening the package using the easy-open system exposes a double blister pack and implant tube that guarantee the sterility and safety during pre-surgical handling.

The transparent inner tube enables viewing the colour code of the support rings, precisely identifying the diameter of the implant before insertion.

The cover screw is located in the upper part of the implant tube.



- (1) Carrier case for boxes with a tamper-proof cap
- (2) Blister pack with tamper-proof cap and traceability labels
- (3) Blister with tamper-proof cap
- (4) Implant tube

SURGICAL INSTRUMENTS

TOP DM surgical Kit

The TOP DM surgical kit is simple and intuitive and includes all the tools required for implant placement. It has been designed to simplify the surgical procedure as much as possible so that the implantologist can concentrate on the patient.

Simplified drilling improves the primary stability of the implant, favouring early loading. The dual diameter drills and the stopper system favour optimal and safe drilling.



TOP DM complete surgical kit

Drills

Lance drill and extender

		RRPM
F-LAC	Lance drill	1,000
F-EXT	Drill extender	–

Cylindrical drills

		Ø	RRPM
F-2	2 mm cylindrical drill	1.5 / 2	1000
F-28	2.8 mm cylindrical drill	2.4 / 2.8	1000
F-43	4.3 mm cylindrical drill	3.8 / 4.3	1000

Pilot drills

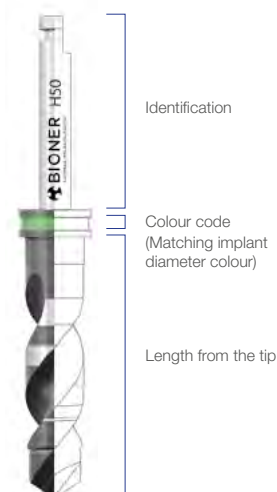
		Ø	RRPM
FP-35	Pilot Drill DM 35	3	500
FP-40	Pilot Drill DM 40	3.7	500
FP-50	Pilot Drill DM 50	4.8	500

Hard bone drills

		Ø	RRPM
H35	Hard Bone Drill DM 35	2.2 / 3.3	350
H40	Hard Bone Drill DM 4	3.0 / 3.8	350
H50	Hard Bone Drill DM 5	4.3 / 4.85	350



Specifications



SURGICAL INSTRUMENTS

Implant holders

		(L)
DM-CiC	Implant holder. Short. Handpiece*	12 mm
DM-CiL	Implant holder. Long. Handpiece	20 mm
DM-PiC	Implant holder. Short. Ratchet*	13 mm
DM-PiL	Implant holder. Long. Ratchet	18 mm



Screwdrivers and other elements

		(L)
PUC	Manual/Ratchet Unigrip Screwdriver. Short*	8 mm
PUM	Manual/Ratchet Unigrip Screwdriver. Medium	14 mm
PUL	Manual/Ratchet Unigrip Screwdriver. Long*	22 mm
DCAUC	Handpiece Unigrip Screwdriver. Short*	8 mm
DCAUM	Handpiece Unigrip Screwdriver. Medium*	13 mm
DCAUL	Handpiece Unigrip Screwdriver. Long*	21 mm



		(L)
PCTT	Minicone Manual Screwdriver	12 mm
DCA-TT	Minicone Handpiece Screwdriver*	14 mm

		Ø
DM-I35	Implant paralleling tool/Gum indicator	3.5 mm
DM-I40	Implant paralleling tool/Gum indicator	4 mm
DM-I50	Implant paralleling tool/Gum indicator	5 mm

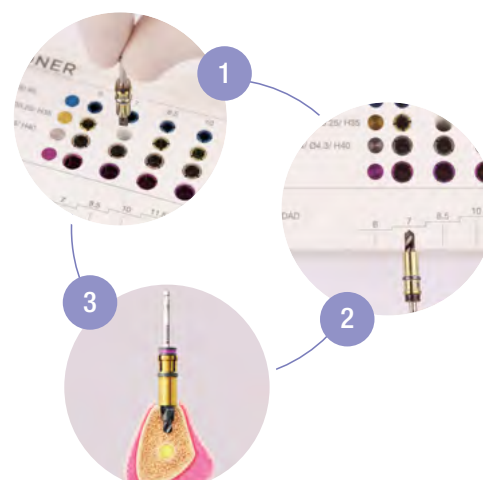


LDR
Torque wrench
Ncm 10 - 35 - ∞

LDR 80 (*)
Torque wrench
Ncm 20 - 80 - ∞

Drill stopper kit (*)

Drill stoppers ensure accuracy and safety when drilling in areas of risk or poor visibility. TOP DM implants by Bioner include a stop kit that shares their same characteristics: reliability and ease of use.

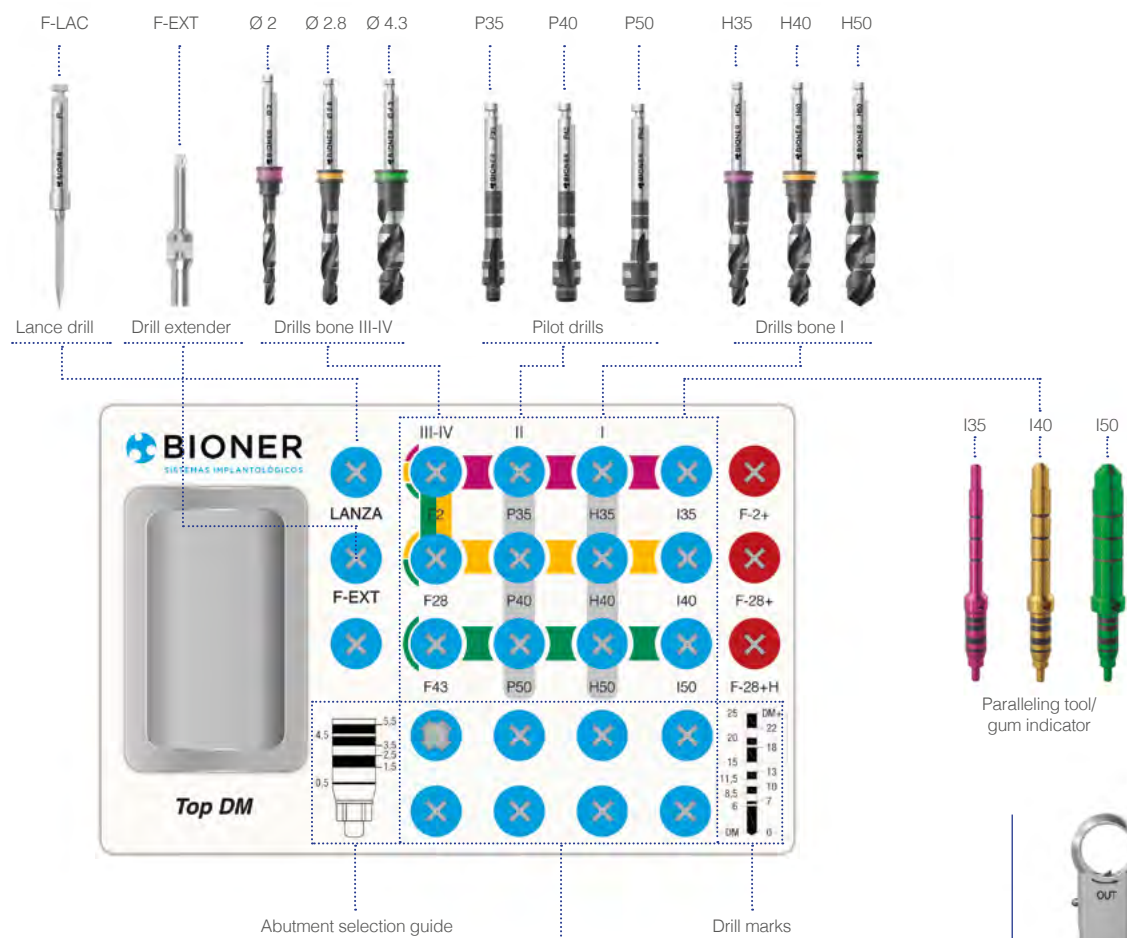


(*) Not included in the surgical kit

TOP DM SURGICAL PROTOCOL

Drilling protocol

The drilling protocol of the TOP DM implant is characterised by its simplicity. The surgical tray is reduced in size to simplify handling in the surgical field. The bands of colour on the tray and the bone type markers indicate the sequence of drills to be used in any surgical situation.



TOP DM SURGICAL PROTOCOL

Example of drilling of a 11.5 mm implant for the different diameters available.

The drill depth is 13 mm for a 1.5 mm infraosseous insertion.

RPM: 70, Ncm 60.

Ø3.5



Type of bone
III - IV

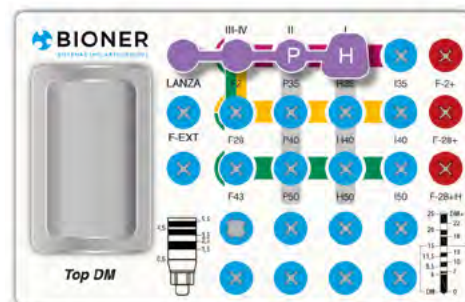


Ref.	FLAC	F2
RPM	800	800
Ncn	35	35

II I



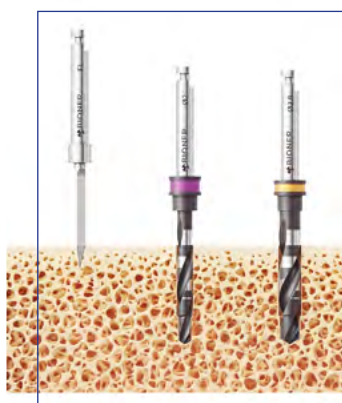
Ref.	P35	H35
RPM	800	75
Ncn	35	35



Ø4



Type of bone
III - IV

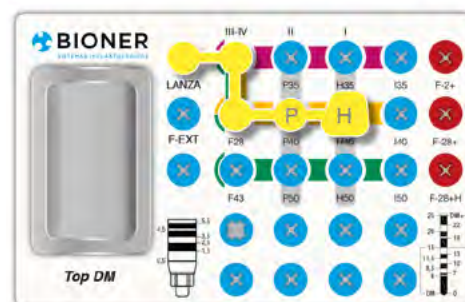


Ref.	FLAC	F2	F28
RPM	800	800	800
Ncn	35	35	35

II I



Ref.	P40	H40
RPM	800	75
Ncn	35	35



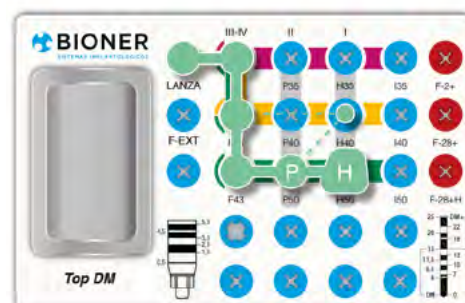
Ø5



Type of bone
III - IV



Ref.	FLAC	F2	F28	F43	P50	H50
RPM	800	800	800	800	800	75
Ncn	35	35	35	35	35	35



P The pilot drill is not a countersink, it should go the full depth; its neutral tip does not modify the drilling depth (optional).

H Hard bone drill (optional).

PLACEMENT OF THE IMPLANT

Placement of the implant

The TOP DM implant is inserted directly using the implant tool included in the surgical kit. There are no intermediate elements to be removed after insertion of the implant thus making the procedure rapid and avoiding unnecessary handling.

The surgical kit includes holders for both handpiece and ratchet.



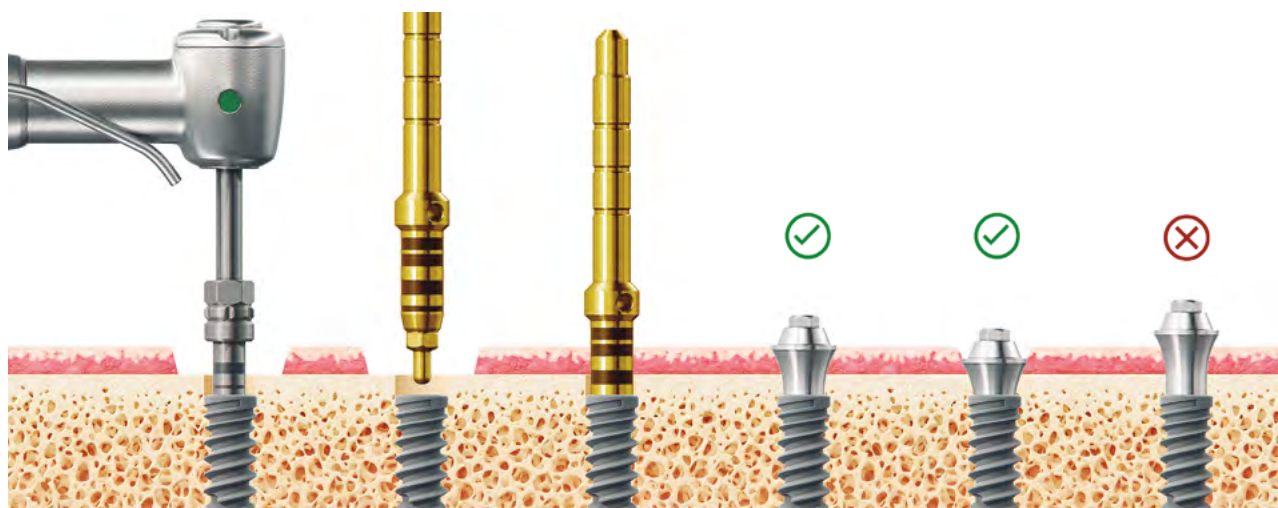
Tissue management . Selecting the abutment.

The surgical versatility of the TOP DM implant enables juxta-osseous or infraosseous insertion to prevent marginal bone loss and favour optimal aesthetic emergence.

The TOP DM implant is designed for subcrestal insertion, in the majority of the cases eliminating the need for second stage surgery. The simplification of transmucosal components as a result of a single prosthetic platform for all implant diameters, enables placing the definite transepithelial element during surgery, thus favouring tissue integration and maintaining crestal bone.

It is also possible to opt for placing healing abutments of different lengths to always maintain a profile in harmony with the final prosthetic components. Should it be necessary, two-phase surgery is also an option, with insertion of a cover screw (included) with a protrusive design to greatly simplify connection surgery.

The use of the depth gauge, included in the surgical kit, is recommended to select the proper abutment length needed in each case.



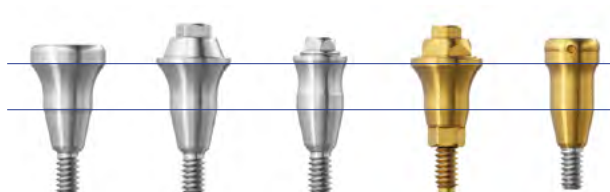
PLACEMENT OF THE IMPLANT

Loading of the implant

The design of TOP DM implant and its prosthetic components make the system an ideal one for immediate loading. Whatever the prosthetic option and the loading time, the equality of the emergence profile of all prosthetic components simplifies the interchange of different abutments, giving priority to the handling of soft tissues and assuring the biological seal of the implant.

The conical connection and precise manufacture in grade 5 Titanium of the implant as well as all prosthetic elements guarantees the absence of micro-motion at the interface, thus preventing the bone from withdrawing to seek its security space.

The evenness of the emergence profile of all prosthetic components simplifies interchange of different abutments.



Healing abutments

Available in two formats, healing abutments have a functional design in matching that of the implant and in harmony with the whole line of prosthetic abutments. Straight abutments are recommended for cases with narrow interdental space.

HEALING ABUTMENTS

1.5	2.5	3.5	4.5	5.5	2.5	4.5
DM-PC15	DM-PC25	DM-PC35	DM-PC45	DM-PC55	DM-PCR25	DM-PCR45
Anatomic	Anatomic	Anatomic	Anatomic	Anatomic	Straight	Straight
h 1.5 mm	h 2.5 mm	h 3.5 mm	h 4.5 mm	h 5.5 mm	h 2.5 mm	h 4.5 mm

Temporary abutments for immediate loading

Easily sizeable titanium abutments with good retention, for cementing temporary prosthesis. Available in rotary and non-rotary version for single and multiple prosthesis.

TEMPORARY ABUTMENTS		CLINICAL SCREW
DM-MPT1	DM-MPT2	DM-T2U
Rotary	Anti-rotary	Unigrip
Screw torque insertion: 35 Ncm		

Prosthetic solutions






Direct to implant prosthesis

Impression coping

Secure Lock System®

The TOP DM Secure Lock® System incorporated in the impression copings prevents screwing unless all components are perfectly positioned in the implant. This avoids the need for X-ray control when taking impressions.

The impression coping screw comes in two sizes, long and short. The long screw has a grooved head to simplify manual tightening in rear areas and in patients with a small mouth opening.

IMPRESSION COPINGS				LABORATORY SCREW	ANALOGUE
					
DM-Ti2L	DM-I2	DM-Ti2C	DM-I2B	DM-T1	DM-A2
Long screw	Open tray	Short screw	Closed tray		






Screw retained prosthesis

Metal base castables

The machined Cobalt-chromium base enables perfect fit on the implant.

Anti-rotary model for single restorations.







Rotary model for multiple restorations.

METAL BASE CASTABLES		CLINICAL SCREW
		
DM-CR1	DM-CR2	DM-T2U
Rotary	Anti-rotary	Unigrip
Screw insertion torque 15 Ncm		

Cemented prosthesis







Permanent abutments

Anti-rotary. Direct to implant. Indicated for cementing single and multiple metal-porcelain prosthesis.
Available in two lengths, straight and with a 15° angle.

FINAL ABUTMENTS			CLINICAL SCREW	ANGLED ABUTMENTS	
				 15° 1.5	 15° 3.5
DM-MB15	DM-MB25	DM-MB35	DM-T2U	DM-MA1515	DM-MA3515
Anti-rotary	Anti-rotary	Anti-rotary	Unigrip	Anti-rotary	Anti-rotary
h 1.5 mm	h 2.5 mm	h 3.5 mm		h 1.5 mm	h 3.5 mm
Screw insertion torque 15 Ncm					

Interfaces for cementing

Indicated for the fixation of single and multiple zirconium prosthesis.
Rotary or anti-rotary, they screw directly to the implant.






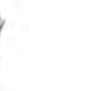
CEMENTING CYLINDERS					
					
DM-CIC08R	DM-CIC15R	DM-CIC35R	DM-CIC08	DM-CIC15	DM-CIC35
Rotary	Rotary	Rotary	Anti-rotary	Anti-rotary	Anti-rotary
h 0.8 mm	h 1.5 mm	h 3.5 mm	h 0.8 mm	h 1.5 mm	h 3.5 mm
Screw insertion torque 15 Ncm					

Prosthetic solutions

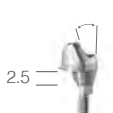



Transmucosal prosthesis

Minicone abutment





The design of the minicone abutment enables the screwed insertion of multiple prosthesis on a supragingival level thus overcoming slight disparallelism between implants. The platform diameter of minicone abutments is 5 mm and their conicity 44°, thus simplifying vertical insertion of the prosthesis and its base.









MINICONE					
					
DM-MU15	DM-MU20	DM-MU25	DM-MU35	DM-MU45	DM-MU55
h 1.5 mm	h 2 mm	h 2.5 mm	h 3.5 mm	h 4.5 mm	h 5.5 mm
The abutment is screwed to the implant with the minicone driver (Ref. PCTT). Insertion torque: 35 Ncm					

Angular abutments. Used in situations of considerable disparallelism between implants. Available in two angles 17° and 30° and two lengths.

ANGLED MINICONE			
			
DM-MU2517	DM-MU3517	DM-MU3530	DM-MU4530
h 2.5 mm	h 3.5 mm	h 3.5 mm	h 4.5 mm

Components

MINICONE COMPONENTS				HEALING CAP	TEMPORARY ABUTMENT	REPLICA
						
DM-Ti5L	DM-I5M	DM-Ti5C	I-5BM	DM-TC	MPT-M	A-5M
Long	Open tray	Short	Closed tray			










CASTABLE	LABORATORY SCREW	CLINICAL SCREW	CEMENTING CYLINDER	SPACER CYLINDER	CYLINDER ACCESSORIES		
							
C-5LM	DM-T4	T-3UM	CiCM	CiEM	T-2TML	T-2TMC	C.CiCM
Screw insertion torque 15 Ncm					Long	Short	








Anti-rotary minicone abutment







The design of the anti-rotary minicone abutment enables supragingival screwed single prosthesis placement in posterior areas. Fixation on the implant uses the same driver (PCTT/DCTT) as regular minicone abutments. But anti-rotary minicone abutments have an specific range of components.

2.0 ANTI-ROTARY				
				
DM-MUN15	DM-MUN25	DM-MUN35	DM-MUN45	DM-MUN55
Anti-rotary	Anti-rotary	Anti-rotary	Anti-rotary	Anti-rotary
h 1.5 mm	h 2.5 mm	h 3.5 mm	h 4.5 mm	h 5.5 mm
The abutment is screwed to the implant with the minicone driver (Ref. PCTT)				

Components

IMPRESSION COPING		ANÁLOGO	HEALING CAP	TEMPORARY ABUTMENT	
					
DM-Ti5L	DM-I5MUN	DM-Ti5C	DM-A5MUN	DM-TC	DM-MPTMUN
Long screw	Open tray	Short screw			
CASTABLE CYLINDER		LABORATORY SCREW		CLINICAL SCREW	
					
DM-C5LMUN		DM-T4		T-3UM	
Screw insertion torque 15 Ncm					

IMPRESSION COPING		REPLICA		HEALING CAP		TEMPORARY ABUTMENT		ABUTMENT CYLINDER	
									
DM-Ti5L	DM-I5MI	DM-Ti5C	DM-A5MI	DM-TC5MI	DM-MPTMI	DM-C5MI			
Long screw	Open tray	Short screw							

SCREW LABORATORY		CLINICAL SCREW		CEMENTING CYLINDER		SPACER CYLINDER		CYLINDER ACCESSORY	
									
DM-T4	T-3UM	DM-CiCMI	DM-CiEMI	DM-T2TMI	DM-CiCMI				

Screw insertion torque 15 Ncm

Standard abutment. Flat platform

Standard abutment

The standard abutment, with its flat 4.5 mm. platform offers great support for prosthesis in certain loading techniques.

STANDARD COPING



DM-CTS15

h 1.5 mm



DM-CTS25

h 2.5 mm



DM-CTS35

h 3.5 mm

The abutment is screwed to the implant with the minicone driver (Ref. PCTT). Insertion torque 35 Ncm

Components

IMPRESSION COPING



DM-I3

TEMPORARY ABUTMENT



MPT-S

CASTABLE



C4

REPLICA



A3

LABORATORY SCREW



DM-T4

HEALING CAP



DM-TCS

CLINICAL SCREW



T-3UM

CEMENTING CYLINDER



CICS

SPACER CYLINDER



CIES

CASTABLE CYLINDER






C.CICS

Screw insertion torque 15 Ncm

Prosthetic solutions

Overdenture abutments






Ball abutments

BALL ABUTMENT		
		
DM-CTR15	DM-CTR25	CTR-C
h 1.5 mm	h 2.5 mm	
Insertion torque 35 Ncm		

Overdenture Abutment

Overdenture abutments are retaining elements designed for the rehabilitation of patients without teeth.

The abutment is complemented by a retaining mechanism comprised of a metallic coping with three types of interchangeable retainers located inside.

OVERDENTURE ABUTMENT				
				
DM-SD1	DM-SD2	DM-SD3	DM-SD4	DM-SD5
h 1 mm	h 2 mm	h 3 mm	h 4 mm	h 5 mm
Insertion torque 35 Ncm				

Components (1)

Black cap. Very soft retention 0,7kg

Pink cap. Soft retention 0,9kg

Transparent cap. Normal retention 1,5kg

Violet cap. Strong retention 1,8kg

PROCESSING PACK



194CCP

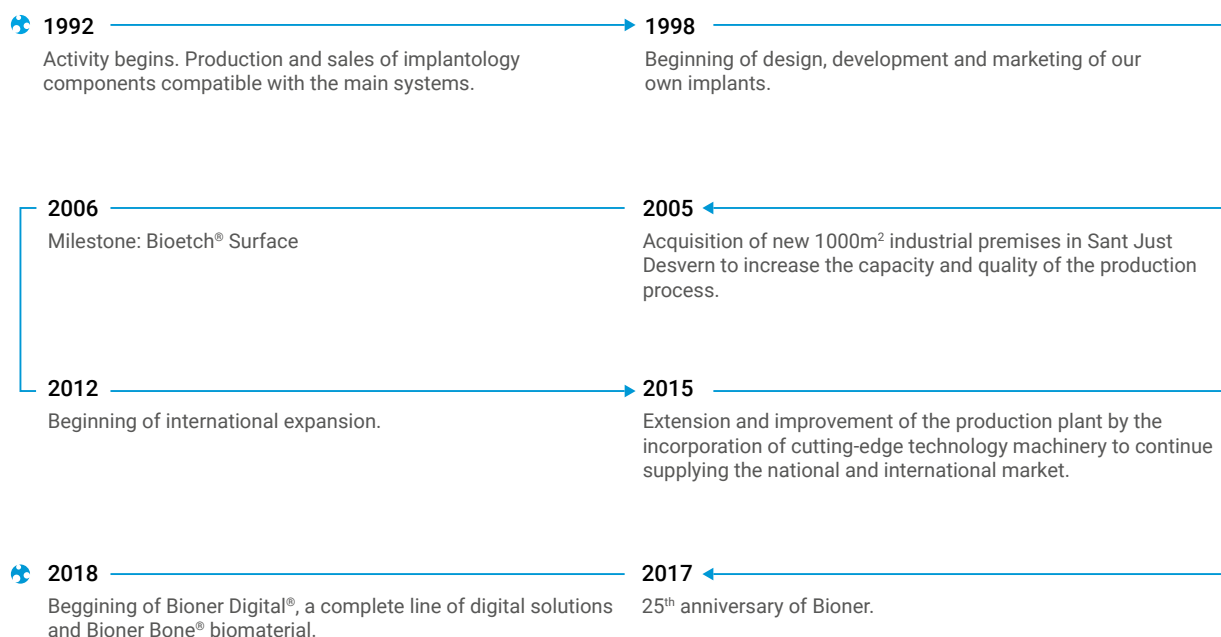


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Castable	C.CiCS	Castable standard cementable cap	21
Castable	C-4	Standard abutment castable	21
Castable	C-5LM	Minicone abutment castable	18
Castable	DM-C.CiC	Castable DM cementable cap	17
Castable	DM-C.CiCMi	Castable micromini cementable cap	20
Castable	DM-C5LMUN	Minicone abutment castable. Non rotatory	19
Castable	DM-C5MI	Minicone abutment castable	20
Castable/ CrCo	DM-CR1	Top DM metal base castable. Rotatory.	20
Castable/ CrCo	DM-CR2	Top DM metal base castable. Non rotatory	20
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Cylinder	CiCS	Standard cementable cap	21
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