



Prodent *Italia*

CLINICAL PROTOCOL
RANGE ***PRIME***

Prodent Italia has implemented a Quality Management System in compliance with UNI CEI EN ISO 13485.

The first certifications issued by Certiquality to Prodent Italia date back to 1998.

Within the scope of the Quality Management System, systematic controls are envisaged and conducted both during production, and upon receipt of raw materials or of products processed by subcontractors, with the aim of assuring a high quality level for all the items manufactured.

Before putting each individual device on the market, all the necessary tests are carried out to verify compliance with the relative product specifications, that are defined so as to assure that every device is conform to the applicable Essential Requirements of Directive 93/42/EEC and subsequent amendments.

Additional tests and trials are periodically conducted and documented. They concern both the product and the environmental characteristics. In addition, we closely collaborate with Italian universities with the aim of continually improving our products.

Prodent Italia's main objective is to satisfy its customers in the best possible way, by continually improving the quality of the products and the service provided.

This policy is implemented and sustained at all corporate levels.

UNI CEI EN ISO 13485:2016



SISTEMA DI GESTIONE
QUALITÀ CERTIFICATO



CERTIQUALITY
È MEMBRO DELLA
FEDERAZIONE CISQ

WARNINGS

Before using each device, read thoroughly the up-to-date Information for the User, consisting in the Instructions for Use, in which the main warnings are also described, and the Clinical Protocol. Prodent Italia declines all responsibility for failure to comply with the Information for the User, updated versions of which are available from the company website.

This Clinical Protocol provides users with guidance in order to optimise implant site preparation and the insertion of PRIME RANGE implants: (with the exception of PRIME CONOMET implants, for which Clinical Protocol CL 010 should be consulted); it must not, however, be considered a substitute for the practitioner's professional experience and training. See Clinical Protocol CL 009 for Guided Implantology procedures.

The Clinical Protocol complements, without being a replacement for, the Instructions for Use provided with each Prodent Italia device.

PRIME RANGE implants are available in a number of different types, namely: PRIME SM, PRIME SM FREE, PRIME SM COLLAR, PRIME CONOMET TS, PRIME TWINNER SM and TWINNER SM COLLAR. PRIME SM, PRIME SM FREE and PRIME SM COLLAR implants are referred to in the Information for the User as **PRIME IMPLANTS**; PRIME TWINNER SM and TWINNER SM COLLAR are referred to as **TWINNER IMPLANTS** and PRIME CONOMET TS implants are referred to as **CONOMET IMPLANTS**.

PRIME SM and PRIME SM FREE implants are physically identical but packaged differently; when no mention is made of the packaging, the term PRIME is used to refer to both types.

In this Clinical Protocol, when mention is made of "PRIME" implants without referring to their packaging, neck or surface treatment, the term refers to the overall implant morphology and, therefore, to PRIME SM, PRIME SM FREE and PRIME SM COLLAR implants.

In this Clinical Protocol, when mention is made of "TWINNER" implants without referring to their packaging, neck or surface treatment, the term refers to the overall implant morphology and, therefore, to PRIME TWINNER SM and TWINNER SM COLLAR implants.

The symbol SM is used to identify those devices with a PERFORM SM connection: it is present in the name of the implants with this kind of connection and in all the devices to be used with them, which, where possible, are also marked. The symbol is also included in certain Surgical Instruments that were initially intended exclusively for implants with PERFORM SM connections, but that can also be used for CONOMET implants. It has been omitted from the names used in this Clinical Protocol, in the interests of readability.

All the measurements indicated in the Information for the User are expressed in millimetres.

Each device is identified and can be ordered using the item code given below the corresponding image in this Protocol.

For further information or clarification, contact your local dealer or the manufacturer.

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www.prodentitalia.eu

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The PRIME RANGE implants are made of pure titanium and have been designed and manufactured to assure high performance even in situations where the bone quality is poor. In this case, an excellent primary stability is essential.

They are available in two morphologies (PRIME and TWINNER), both in three different versions.

All the PRIME RANGE implants are available in a number of different diameters and heights, to meet any and all anatomical requirements.

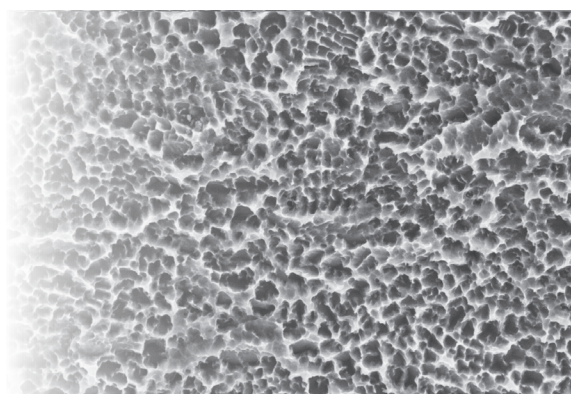


The **PRIME** implants with “root-form” design are available in the following versions:

- **PRIME: MPS** treatment on the entire implant body and fully micro-threaded collar, combined with the main spiral, to always provide optimal primary stability in the cortical area.
- **PRIME COLLAR: MPS** treatment on the entire implant body, except the first section of the collar, which is provided with a 1.2 smooth and machined area without micro-thread. The remaining section of the collar has a micro-thread combined with the main spiral.

TWINNER implants with cylindrical design, double spiral pitch and conical apex are available in the following versions:

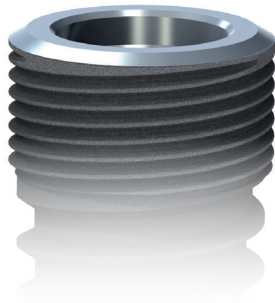
- **PRIME TWINNER: MPS** treatment on the entire implant body and fully micro-threaded collar, combined with the main spiral, to always provide optimal primary stability in the cortical area.
- **TWINNER COLLAR: MPS** treatment on the entire implant body, except the first section of the collar, which is provided with a 1.2 smooth and machined area without micro-thread. The remaining section of the collar has a micro-thread combined with the main spiral.



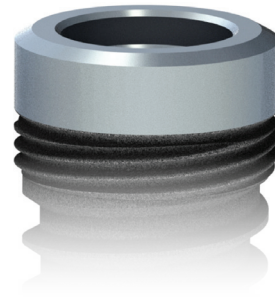
MPS Micro Profile Surface (Double Acid-Etched)

The **MPS** surface treatment, where envisaged, is carried out by means of a double etching process, which results in controlled and homogeneous roughness of the treated surface and provides an excellent clot retention, an essential requirement for osteointegration.

The excellent performance of the **MPS** surface treatment is backed by the high percentages of success in clinical use of over 200.000 fixtures.



The PRIME and PRIME TWINNER implants are suitable in all the clinical cases where the practitioner deems it possible to position the implant at crestal bone level or, in biotypes with thin gingival tissues, at a subcrestal bone level.



PRIME COLLAR and TWINNER COLLAR implants are mainly suitable in those cases where the practitioner believes, based on his evaluation of the clinical case, that the implant collar will protrude with respect to the bone crest.

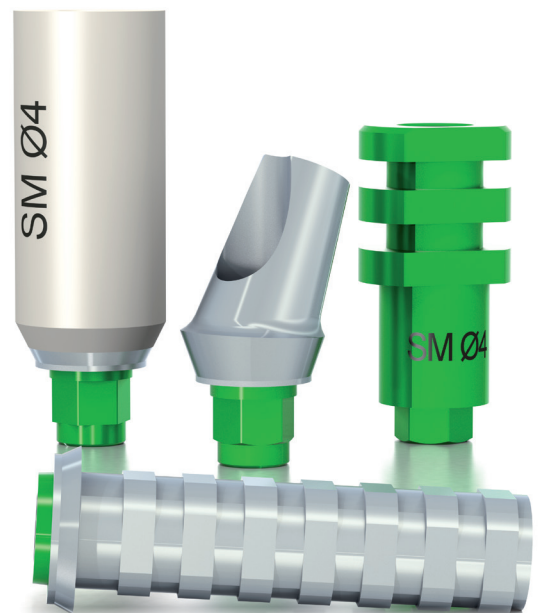


The PRIME RANGE implants are made with a deep internal engaging cylindrical-hex-cylindrical connection that optimises the distribution of the masticatory loads. If used appropriately, these implants have an estimated useful life of at least 10 years; this time period has been validated by means of mechanical fatigue tests conducted with at least 5 million load cycles.

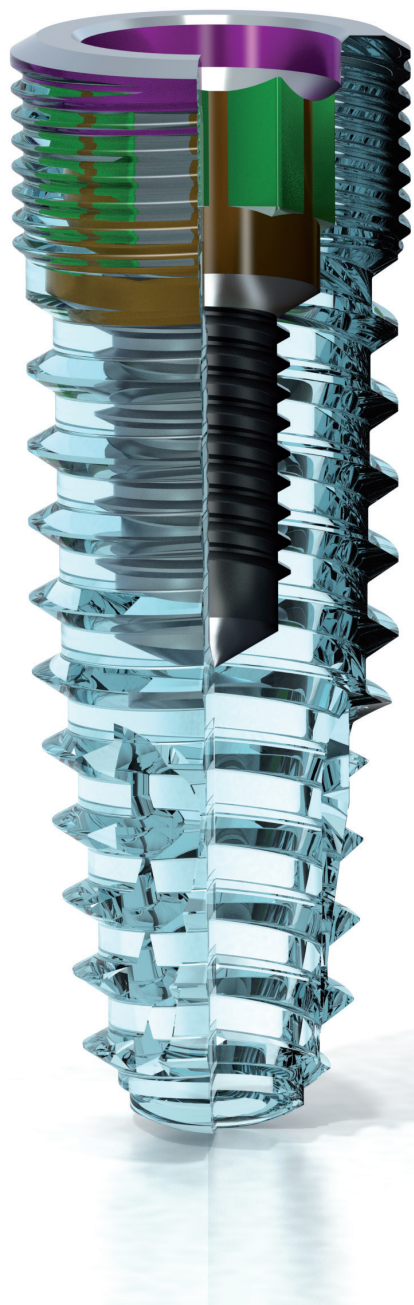


The implant-restoration connection of the PRIME RANGE implants creates a platform switching condition that optimises preservation of the gingival tissues and reduces bone resorption events.

The PRIME RANGE implant restoration range has been designed and developed to allow practitioners to construct all types of modern prostheses, both in terms of aesthetics and immediate-loading.



PRIME



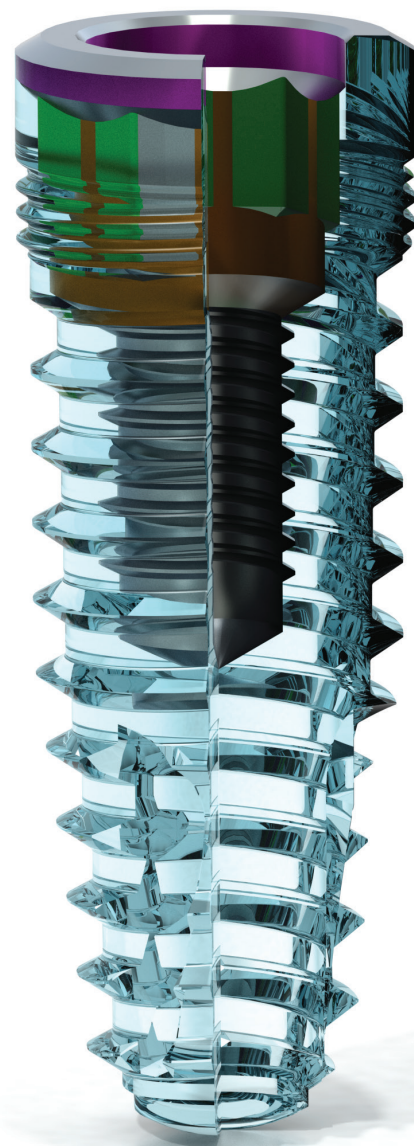
1.2 mm smooth area, without micro-thread and machined.

Triple micro-thread combined with the main spiral which - during insertion - activates with the same pitch as the largest spiral, resulting in excellent primary stability in the cortical area.

Root-form morphology, characterised by a first cylindrical section and a second more apical/conical section; this will allow you to always get a reliable grip even if the bone quality is poor.

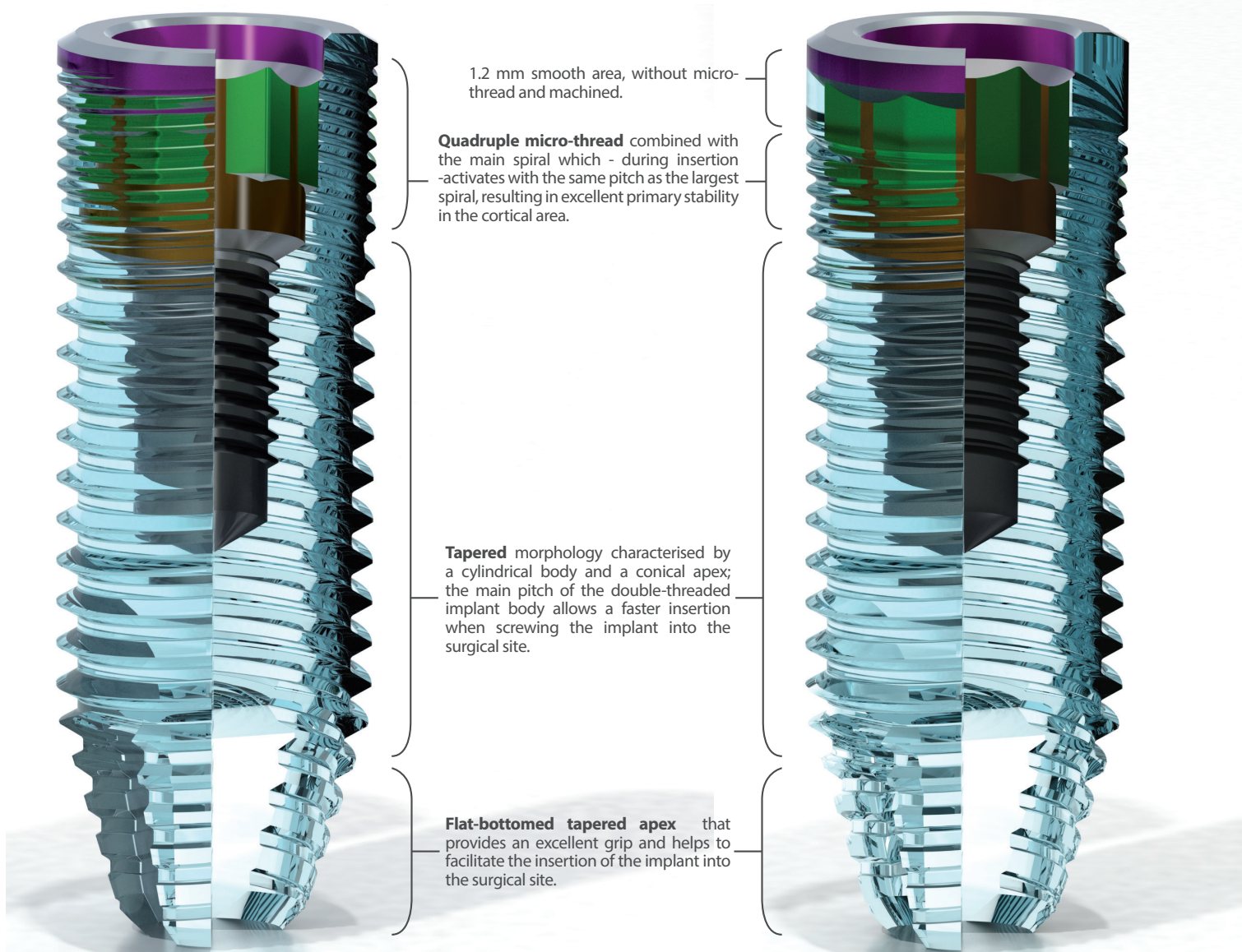
Semispherical-bottomed conical apex, ideal to place in sites regenerated contextually with a large maxillary sinus lift.

PRIME COLLAR



PRIMETWINNER

TWINNER COLLAR



IMPLANT CONNECTION

PERFORM SM is the restoration connection for the PRIME RANGE implants characterised by an internal hex that assures engagement of the structures. It is positioned underneath a cylindrical-shaped part that prevents transverse and flexural stresses, thus hindering them from overloading the hex or the Connection Screw. Where the restoration components allow it, an additional cylindrical part is provided, which is positioned further down underneath the hex, aimed at further stabilizing the main prosthetic loading stresses.

The **connection diameter varies** in relation to the implant diameter and defines the **restoration range** of the implant identified by colour code.

The **implant diameter** corresponds to its maximum dimensions at the level of the neck section.

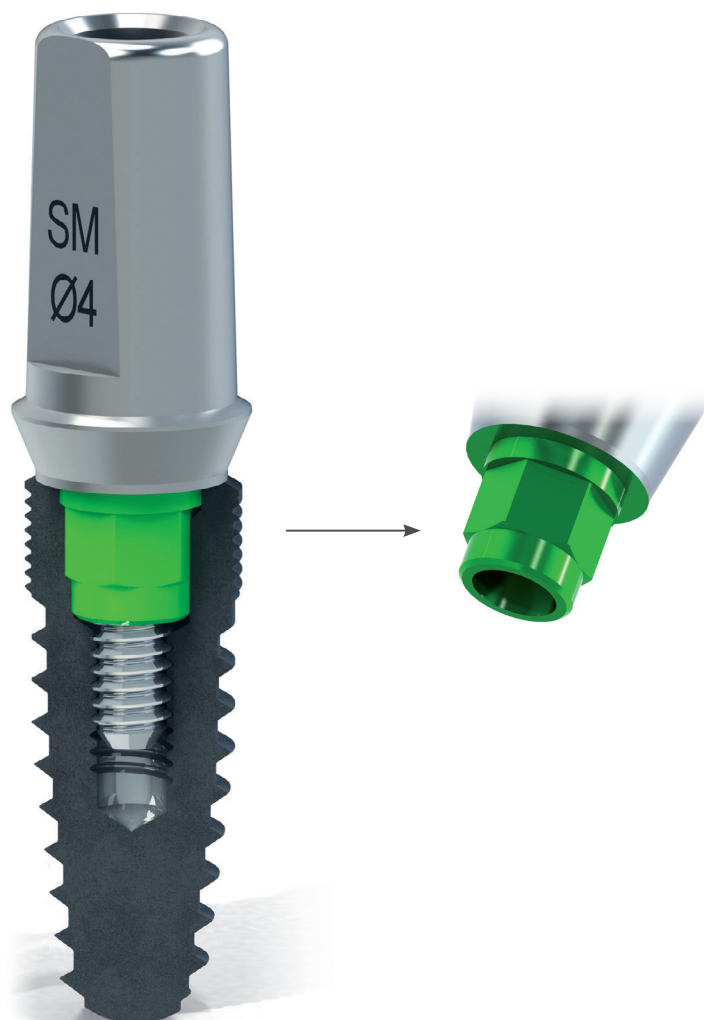
The **colour coding** dramatically simplifies the identification of the surgical devices and the secondary components, in relation to the implant to be inserted and naturally prosthesised.

The device **marking** and **colour-code** (where applicable) identify the size and the relative restoration range. For details, please refer to the pages describing the operating procedures of each device.

The devices (cutting instruments, surgical instruments, restoration components and accessories) dedicated to the PERFORM SM connection are marked **SM** to identify and distinguish them from the devices of other Prodent Italia's implant ranges.

All the devices are moreover identified by labels bearing the code, batch number, device characteristics and other pertinent indications by means of standard symbols.

RESTORATION RANGE	RESTORATION RANGE	RESTORATION RANGE	RESTORATION RANGE	RESTORATION RANGE
Ø 3.3	Ø 3.6	Ø 4	Ø 4.5	Ø 5
ORANGE	FUCHSIA	GREEN	YELLOW	BLUE
PRIME Ø 3.3	PRIME Ø 3.8 - 4.2	PRIME Ø 4.6	PRIME Ø 5.1	PRIME Ø 5.9
TWINNER Ø 3.5	TWINNER Ø 4	TWINNER Ø 4.5	TWINNER Ø 5	



All implants are provided with Platform Switching system - with the exception of the 3.3 diameter ones - which assures that the gingival tissues and consequently the crestal bone level are maintained.

The abutment-implant joint is thus transferred from a vertical to a horizontal plane moving it away from the bone-implant interface point; this condition preserves the peri-implant tissues reducing any triggering of inflammatory phenomena and maintaining the crestal bone level.



"Platform Switching"
Horizontal biological space to
maintain the peri-implant soft
tissues.

IMPLANTS *PRIME*

The **PRIME** and **PRIME FREE** implants provide the same implant morphology, although the pack includes different components:

- **PRIME**: provided with Cover Screw and Straight Abutment (code with letters MF);
- **PRIME FREE**: provided with Cover Screw (code with letter F).

They are available in six diameters and five heights for the most used diameters (Ø 3.8 to Ø 5.1).

The small 3.3 diameter is available in three heights, while the larger 5.9 diameter is available in four heights.





Ø 3.3



restoration range **Ø 3.3**

heights

h 10
h 11.5
h 13

PRIME

codes

0801351MF
0801352MF
0801353MF

PRIMEFREE

codes

0801351F
0801352F
0801353F



Ø 3.8



restoration range **Ø 3.6**

h 8.5
h 10
h 11.5
h 13
h 15

0801300MF
0801301MF
0801302MF
0801303MF
0801304MF

0801300F
0801301F
0801302F
0801303F
0801304F



Ø 4.2



restoration range **Ø 3.6**

h 8.5
h 10
h 11.5
h 13
h 15

0801310MF
0801311MF
0801312MF
0801313MF
0801314MF

0801310F
0801311F
0801312F
0801313F
0801314F



Ø 4.6



restoration range **Ø 4**

h 8.5
h 10
h 11.5
h 13
h 15

0801320MF
0801321MF
0801322MF
0801323MF
0801324MF

0801320F
0801321F
0801322F
0801323F
0801324F



Ø 5.1

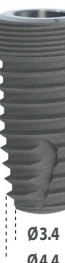


restoration range **Ø 4.5**

h 8.5
h 10
h 11.5
h 13
h 15

0801330MF
0801331MF
0801332MF
0801333MF
0801334MF

0801330F
0801331F
0801332F
0801333F
0801334F



Ø 5.9



restoration range **Ø 5**

h 8.5
h 10
h 11.5
h 13

0801340MF
0801341MF
0801342MF
0801343MF

0801340F
0801341F
0801342F
0801343F

IMPLANTS *PRIME*

The **PRIME COLLAR** implants are available in six diameters and five heights for the most used diameters (Ø 3.8 to Ø 5.1). The small 3.3 diameter is available in three heights, while the larger 5.9 diameter is available in four heights. They come all equipped with the related Cover Screw.



PRIME COLLAR



Ø 3.3



restoration range **Ø 3.3**

heights	codes
h 10	0801551
h 11.5	0801553
h 13	0801555

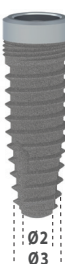


Ø 3.8



restoration range **Ø 3.6**

h 8.5	0801501
h 10	0801503
h 11.5	0801505
h 13	0801507
h 15	0801509

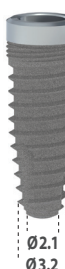


Ø 4.2



restoration range **Ø 3.6**

h 8.5	0801511
h 10	0801513
h 11.5	0801515
h 13	0801517
h 15	0801519

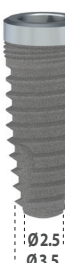


Ø 4.6



restoration range **Ø 4**

h 8.5	0801521
h 10	0801523
h 11.5	0801525
h 13	0801527
h 15	0801529

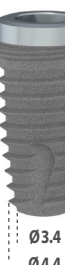


Ø 5.1



restoration range **Ø 4.5**

h 8.5	0801531
h 10	0801533
h 11.5	0801535
h 13	0801537
h 15	0801539



Ø 5.9

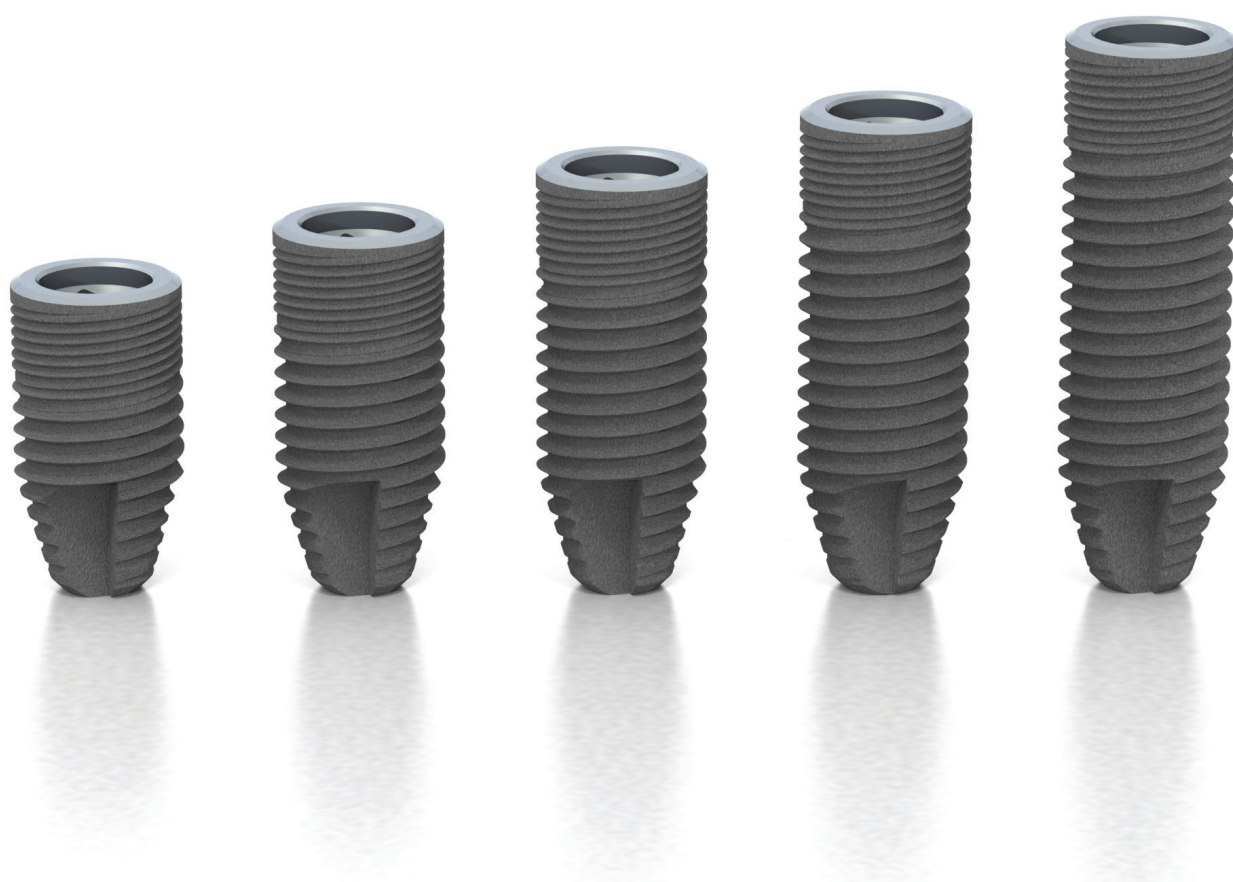


restoration range **Ø 5**

h 8.5	0801541
h 10	0801543
h 11.5	0801545
h 13	0801547

IMPLANTS *TWINNER*

The **PRIME TWINNER** implants are available in four diameters and five heights for each diameter. They come all equipped with the related Cover Screw.



PRIMETWINNER



Ø 3.5

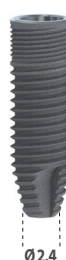


restoration range **Ø 3.3**

heights

codes

h 8.5	0801360F
h 10	0801361F
h 11.5	0801362F
h 13	0801363F
h 15	0801364F



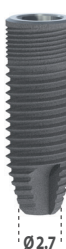
Ø 4



restoration range **Ø 3.6**

h 8.5
h 10
h 11.5
h 13
h 15

0801370F
0801371F
0801372F
0801373F
0801374F



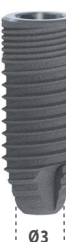
Ø 4.5



restoration range **Ø 4**

h 8.5
h 10
h 11.5
h 13
h 15

0801380F
0801381F
0801382F
0801383F
0801384F



Ø 5



restoration range **Ø 4.5**

h 8.5
h 10
h 11.5
h 13
h 15

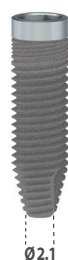
0801390F
0801391F
0801392F
0801393F
0801394F

IMPLANTS *TWINNER*

The **TWINNER COLLAR** implants are available in four diameters and five heights for each diameter. They come all equipped with the related Cover Screw.



TWINNER COLLAR



Ø 3.5

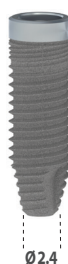


restoration range **Ø 3.3**

heights

codes

h 8.5	0801601
h 10	0801603
h 11.5	0801605
h 13	0801607
h 15	0801609

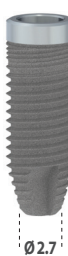


Ø 4



restoration range **Ø 3.6**

h 8.5	0801611
h 10	0801613
h 11.5	0801615
h 13	0801617
h 15	0801619

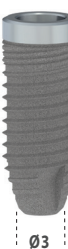


Ø 4.5



restoration range **Ø 4**

h 8.5	0801621
h 10	0801623
h 11.5	0801625
h 13	0801627
h 15	0801629



Ø 5



restoration range **Ø 4.5**

h 8.5	0801631
h 10	0801633
h 11.5	0801635
h 13	0801637
h 15	0801639

PACK

PACK AND STERILITY

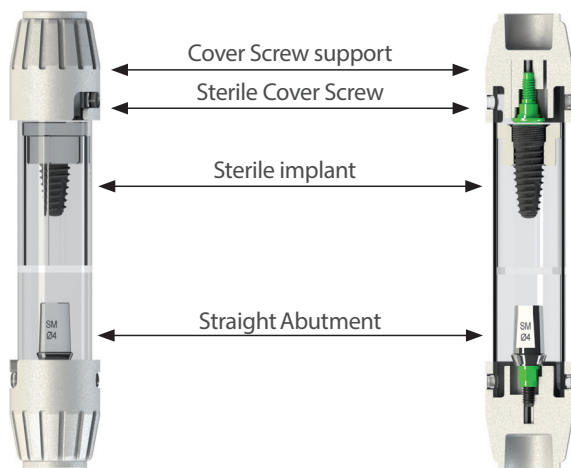
The PRIME RANGE implants are delivered in a sterile plastic ampoule, housed on a ring in pure titanium and, in the case of the TWINNER implants, they are placed on a pure titanium disc. The cover screw is fitted into the cap which closes the implant housing. They are available in the following packs:

- **PRIME:** Implant + Cover Screw + Straight Abutment.
- **PRIME FREE, PRIME COLLAR, PRIME TWINNER, TWINNER COLLAR:** Implant + Cover Screw.

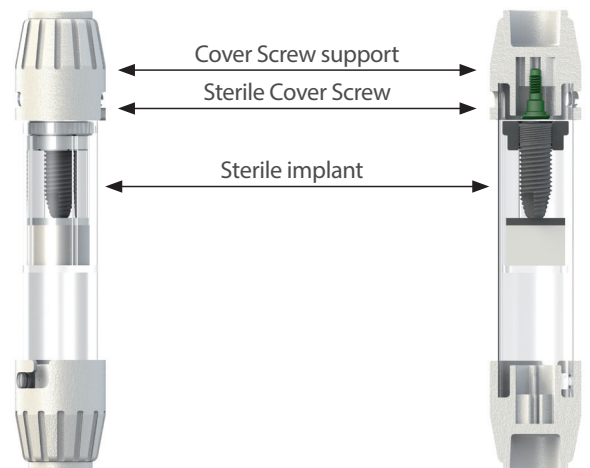
The ampoule is contained in a sealed plastic blister pack to preserve sterility and the blister pack comes in a sealed cardboard box suitable for storage.

The implant housing and its extraction instruments make it possible to avoid contact between the surface of the implant and other components and surfaces other than titanium before placement in the site.

The implant label is found on the box. The box also contains the Instructions for Use, the patient's Dental Implant Passport and the extra peel-off label with the device identification details, to be attached to the patient's clinical records.



Primary pack for implants with Straight Abutment



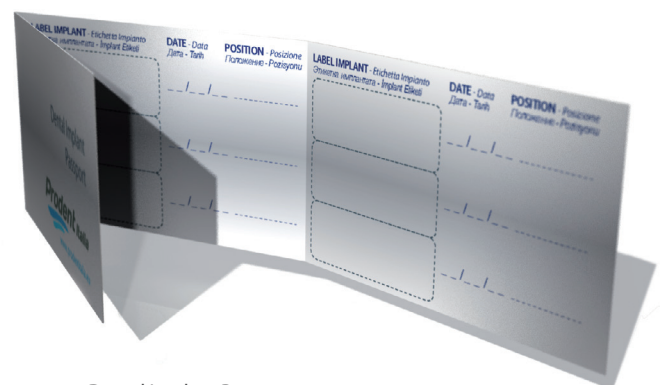
Primary pack for implants without Straight Abutment

DOCUMENTATION AND IMPLANT IDENTIFICATION

PRODENT ITALIA S.r.l. recommends that you keep the complete clinical/radiological and statistical documentation.

Implant identification is assured if the label contained in the pack is applied on the patient record, or if the implant data (implant type, diameter, height and batch number) is transcribed on the patient record or otherwise filed.

The operator should complete the patient's Identocard (Dental Implant Passport) contained in the pack, filling in all the required data and applying the peel-off labels in the spaces provided. The card should then be handed to the patient providing him or her with all the instructions to follow after the operation.



Dental Implant Passport

Each implant in the PRIME RANGE is packed in a specific box, which allows the type of implant contained to be easily and immediately identified.



PRIME implants pack



PRIME FREE implants pack



PRIME COLLAR implants pack



PRIME TWINNER implants pack



TWINNER COLLAR implants pack

STORING AND HANDLING THE PACK

Implant sterility is guaranteed if the original pack is unopened, intact and stored in a dry place at ambient temperature until the expiry date indicated on the label (5 years from the date of sterilization - shelf-life). Before using the implant, always check that the pack is undamaged and shows no visible signs of damage that could compromise its sterility.

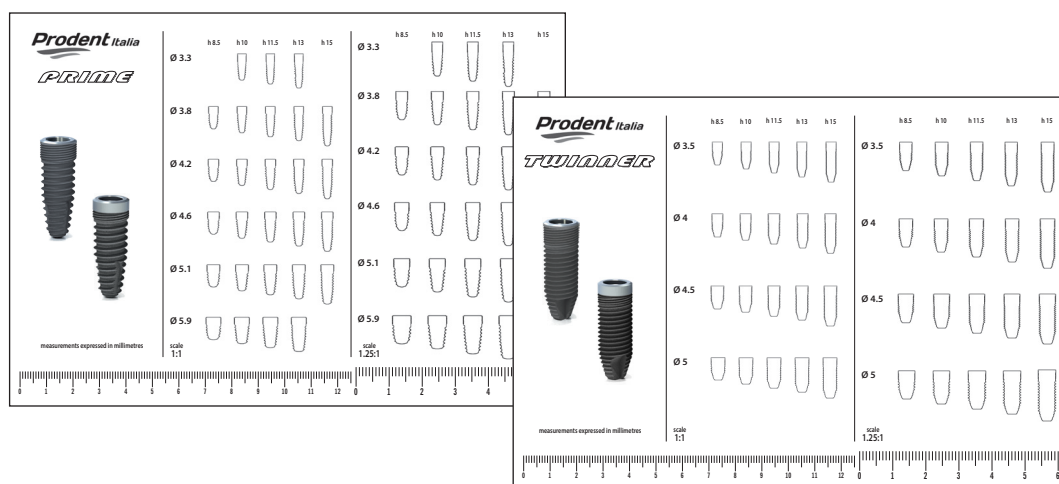
The pack must not be opened until the implant is to be used. The blister must be opened and the implant taken out in asepsis conditions.

SURGICAL PLANNING

Before surgery, it is of fundamental importance to perform a careful preoperative anamnesis of the patient in order to verify the suitability of the implantation treatment. After excluding any contraindication to the implant-restoration treatment, it is essential that the practitioner carries out careful clinical planning taking various aspects into account, such as the position and optimal orientation of the chosen implants in relation to the occlusal plane and correct stress distribution. At this stage, it may be helpful to prepare a surgical template to guide correct positioning of the implants during surgery. Depending on the case, you can decide whether to use a one- or two-phase surgical procedure.

As well as a clinical and radiographic evaluation, the specialist can do a CAT scan of the area involved and, once obtained the radiographic and tomographic plates, he can identify the most suitable implant using the transparency viewers.

The transparencies show the two-dimensional profiles of the implants in 1:1 and 1.25:1 scale. This will allow the operators to superimpose the transparencies both on the endoral radiographies and on the CAT (scale 1:1), as well as on the orthopantomographies (scale 1.25:1), thus directly evaluating the type of implant to insert and the related diameter. The transparency viewers should not be used to make measurements; they only provide an indication of the shape/size of the implants.



Clinical planning should also take into account the minimum distance to be respected between implants or between the implant and the natural tooth. That way you can prevent possible clinical complications that might compromise the success of the surgical treatment.






Implant integration is a necessary prerequisite for the subsequent final prosthesis. Following implant insertion, the following timeframes are possible:

- The prosthetic component (in its various versions) is connected to the implant during surgery by immediately applying a temporary prosthesis that will be replaced with the final prosthesis when osseointegration is complete.
- The Healing Screw is applied contextually with implant insertion, or after a variable period of time required for the mucosa to heal, which will depend on the screw morphology, so as to create a suitable site for the prosthetic component.
- Once the osseointegration process has been completed, the Healing Screw will be connected and followed directly by the prosthetic component, according to a procedure that may be defined "conventional".

The choice of the correct procedure to use in the phases following implant insertion is up to the practitioner, based on his or her evaluation of the surgical treatment suited to the clinical case. Prodent Italia merely provides indications and warnings on the correct sequence and on the procedures for using the components that may be employed in the surgical and prosthetic phases. As conventional procedures have always been considered more conservative, in case of doubt on which phase to choose, it would be preferable to use a conventional procedure as a precautionary measure.

































In implant-restoration treatments, it is always preferable to use implants of a diameter suited to the size of the missing part, thus optimising the quality of the prosthesis from both the aesthetic and the biomechanical point of view. The table below shows the dental positions where the PRIME RANGE implants perform best. By “discretionary position” we mean a position selected by the practitioner only after careful evaluation of the implant size in relation to the prosthetic load.

colour code										
Ø Restoration range	Ø 3.3		Ø 3.6			Ø 4		Ø 4.5		Ø 5
Ø Implants	PRIME	TWINNER	PRIME	TWINNER	PRIME	TWINNER	PRIME	TWINNER	PRIME	PRIME
	Ø 3.3	Ø 3.5	Ø 3.8	Ø 4	Ø 4.2	Ø 4.5	Ø 4.6	Ø 5	Ø 5.1	Ø 5.9































UPPER

missing parts

CENTRAL INCISORS						
LATERAL INCISORS						
CANINES						
PREMOLARS						
MOLARS						

LOWER

missing parts

CENTRAL INCISORS												
LATERAL INCISORS												
CANINES												
PREMOLARS												
MOLARS												

 optimal position  discretionary position  contraindicated position

If used in DISCRETIONARY position, do not prosthesis Ø 4 TWINNER and Ø 4.2 PRIME implants with abutments having an angulation **greater than 17°**.

In the case of implant-restoration treatments with Immediate Loading Threaded implants, we recommend that you refer to the dedicated section “FAST surgical planning”.

SURGICAL TRAY

There are two different Surgical Trays available, which are easy to distinguish since they have printed -both on their cover and on their inside- the name of the type of implant they are intended for: PRIME or TWINNER.

Depending on the type of implant chosen, the relative Surgical Tray contains all the cutting instruments and surgical accessories needed for the surgical site preparation and for the subsequent implant insertion.

Made of sterilizable plastic, the Surgical Trays are customised with colours and screen-printing that allow them to be practically and intuitively used by both the operator during surgery, and by the assisting staff when washing and placing the devices back into the Surgical Tray. The position of each instrument is indicated by the corresponding screen-printed image, and where devices are available in different variants, their size is indicated too, so to identify the correct instrument to use.

The coloured lines - that follow the identification colour code - guide the operator, facilitating the use of the surgical instruments in the correct sequence.

The silicon instrument holders are customised based on the instrument they are intended to house; they also help to hold the instruments in place during handling and sterilization of the Surgical Tray.



PRIME Surgical Tray
0810900



TWINNER Surgical Tray
0810901

SURGICAL ACCESSORIES

TISSUE PUNCHES

Circular scalpels to be used in the flapless surgical technique before passing bone burs, connected to the contra-angle and at low rotation speed (25 RPM), to remove gingival tissue, creating holes meant for the successive passages of burs. They can also be used to create holes that are useful to remove cover screws without opening the flap. Ø 4.3 and Ø 5.5 tissue punches create a hole with a diameter 3.3 and 4 respectively. The diameter marked on the device refers to its maximum outer dimensions.



0503070
Ø 4.3



0503071
Ø 5.5

GUIDE PIN

It is used to assess the depth of the surgical channel (also by using radiography) after drilling with the Slim Pilot Bur. In the event that two or more implants are inserted, the pin can be used as reference for parallelism.



0810100

DEPTH MARKER READING
OF DEPTH GAUGE AND GUIDE PIN

15
13
11.5
10
8.5



0810102

DEPTH GAUGE

This instrument is equipped with an extra-oral handle to assess the depth of the surgical site after using the Slim Pilot Bur.

17° GUIDE PIN

In the event of disparallelism, after using the Slim Pilot Bur, it is useful to assess the possibility of recovering the implant axis by means of angled restoration components.



0810101

BUR EXTENSION

To use when it is necessary to extend the connection between the Bur and the Contra-angle without exceeding a max. torque of 45Ncm.



0510059

DIGITAL WRENCH

To start tapping the surgical site or for manual implant insertion.



0510064

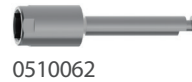
HEX SCREWDRIVERS

For screwing and unscrewing all Screw types. Available in three different lengths, it can be easily used also in the case of customised restoration components.



CONTRA-ANGLE CONNECTION

For mechanical use of Drivers and Screw Taps without exceeding 25 RPM and a maximum torque of 45Ncm.



EXTENSION

For increasing the length of the connection to the dedicated screwing instruments.



TORQUE RATCHET

With fixed function to complete the manual insertion of the implant and the tapping operations of the surgical site. The device also has a torque function with adjustment markers at 20-30-45-70 Ncm. Cleaning, disassembly and assembly operations are described in the instructions for use.

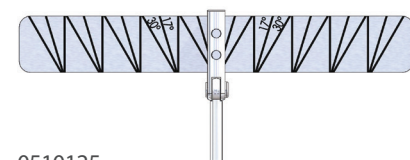


DIRECTION GUIDE

Manufactured in titanium, it is indicated in clinical cases involving the prosthetic restoration of an entire arch in which implants are inserted into the bone at angles of up to 30°.

The indicators on the guide allow the practitioner to consider implant insertion both perpendicular to the bone crest (0°) and with an offset of 17° to 30°.

It must be bent by hand, following the shape of the arch, and secured to the bone crest by inserting its 11 mm mobile shaft into a site prepared for the purpose using a Ø 2.2 pilot bur. The receiving site should be made in the centre of the frontal area mesially to the sites in which the implants are to be inserted.



BURS AND DRILL STOPS

All the PRIME RANGE implants share the Corticotomy Bur and Slim Pilot Bur with relative Drill Stops. Based on the type of implant to be inserted, specific intermediate and final burs are provided: Tapered for PRIME, Cylindrical and Countersink for TWINNER.

All the burs are made of surgical stainless steel and feature an excellent cutting performance. To prevent the bone from overheating, use the burs under abundant sterile saline solution and do not exceed 800 RPM.

The Corticotomy Bur is used to cut the cortex.

The Pilot Bur is used to determine the final depth of the surgical implant site.

When used as final burs, the Tapered Burs and the Cylindrical Bone Drills allow you to obtain the morphology and the final dimensions within the site suitable to house the implants. When used as intermediate burs, they allow you to gradually widen the site.

The Burs for Compact Bone are devices designed for TWINNER implants. They must be used only to prepare the surgical sites within compact bones, following the Final Cylindrical Bone Drill. They produce surgical sites of increased dimensions and reduce the insertion torque of the TWINNER implants.

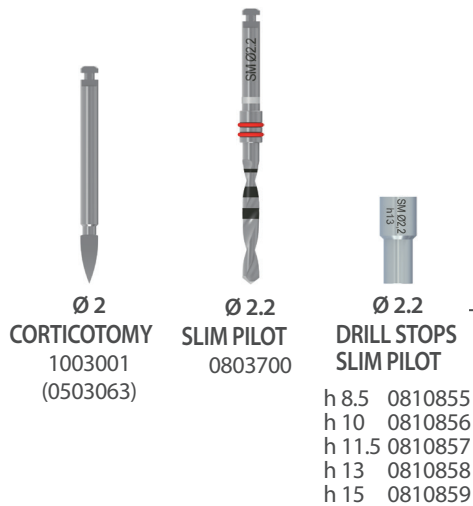
The Countersink Burs are to be used after passing with the Cylindrical Bone Drills in order to correctly prepare the cortical area of the surgical implant site.

For the exact sequence of the burs to use based on the implant to insert, please refer to the "Surgical sequence" section.

The Drill Stops assure, by means of a mechanical stop, that the required depth is observed during milling: their use is optional depending on the clinical spaces and the morphology of the bone crest. They are made of grade 5 titanium and they are available only for the Slim Pilot Bur.

The colour of the O-rings of the Cylindrical Bone Drills is important only when used as final bur. In this case, it follows the PRIME RANGE colour coding. The red double O-ring of the Slim Pilot Bur is only intended to assure a proper coupling of the Bur to the relative Drill Stops.





PRIME

CONICAL

	Ø 3.3	Ø 3.8	Ø 4.2	Ø 4.6	Ø 5.1	Ø 5.9
h 8.5	-	0803180	0803150	0803160	0803170	0803190
h 10	0803156	0803181	0803151	0803161	0803171	0803191
h 11.5	0803157	0803182	0803152	0803162	0803172	0803192
h 13	0803158	0803183	0803153	0803163	0803173	0803193
h 15	-	0803184	0803154	0803164	0803174	-

TWINNER

CYLINDRICAL

Ø 3	Ø 3.4	Ø 3.9	Ø 4.4
0803210	0803211	0803212	0803213

BURS FOR COMPACT BONE

Ø 3.2	Ø 3.7	Ø 4.3	Ø 4.6
0803220	0803221	0803222	0803223

COUNTERSINK

Ø 3.5	Ø 4	Ø 4.5	Ø 5
0803214	0803215	0803216	0803217

	SLIM PILOT	CONICAL	CYLINDRICAL	BURS FOR COMPACT BONE	COUNTERSINK
BUR DEPTH MARKER AND CUTTING EDGE READING					

INDICATORS AND SCREW TAPS

According to the type of implant to be inserted - PRIME or TWINNER – and to the relative implant sizes, there are specific Screw Taps and Neck Diameter Indicators available. All the devices are marked with the diameter corresponding to the implant they are intended for. Moreover, the Neck Diameter Indicators for PRIME are colour coded, while the Neck Diameter Indicators for TWINNER are also marked with the relative item code. In addition, all Screw Taps bear specific depth markers.

NECK DIAMETER INDICATORS

After using the Slim Pilot Bur, the Neck Diameter Indicators allow you to check the diameter at the crest of the implant neck; the side of the instrument to be inserted is marked $\varnothing 2.2$.

SCREW TAPS





















In the event of compact bones - after using the Final Bur - the Screw Taps allow you to create a calibrated surgical site for the insertion of the implants they have been designed for. It is preferable to screw manually the tap with the Digital Wrench or Ratchet. If you proceed mechanically, use the Contra-angle Connection and do not exceed 25 RPM.

The Screw taps for TWINNER implants must only be used in the cases indicated in the “TWINNER Surgical Sequence”.












INDICATORS AND SCREW TAPS

PRIME

Implant diameter	Ø 3.3	Ø 3.8	Ø 4.2	Ø 4.6	Ø 5.1	Ø 5.9
NECK DIAMETER INDICATORS	 0810155	 0810150	 0810151	 0810152	 0810153	 0810154
SCREW TAPS FOR IMPLANTS h 8.5	/	 0804301	 0804311	 0804321	 0804331	 0804361
SCREW TAPS FOR IMPLANTS h 10-11.5-13-15	 0804350	 0804300	 0804310	 0804320	 0804330	 0804340
DEPTH MARKER READING	FOR Ø 3.3 IMPLANTS		FOR h. 8.5 IMPLANTS		FOR h. 10-11.5-13-15 IMPLANTS	
	 10 - 11.5 - 13 There is only one reference depth marker for all the heights: the self-tapping section of the implant increases as the implant height increases.		 h 8.5 8.5		 15 13 11.5 10	

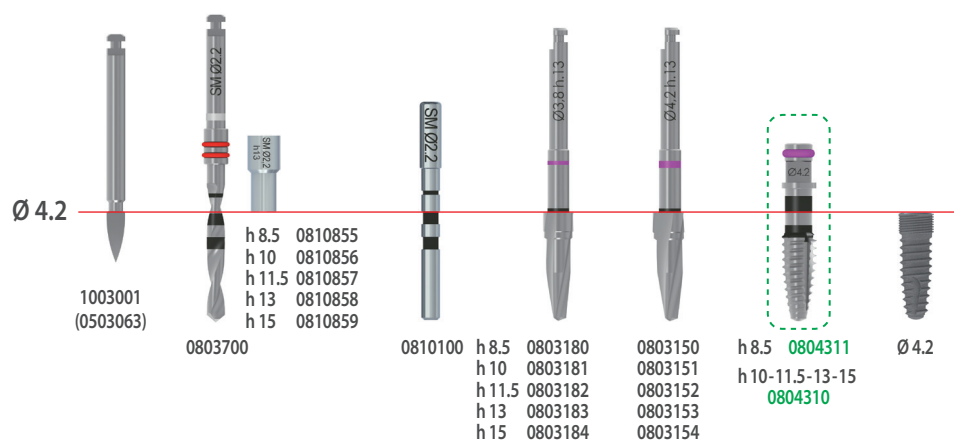
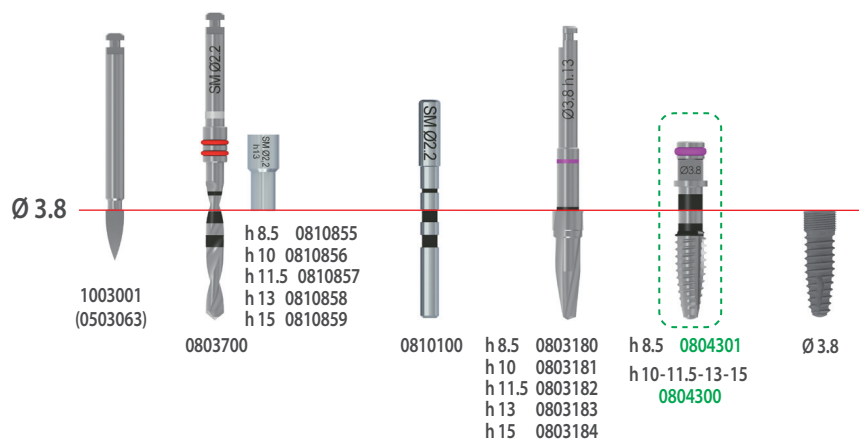
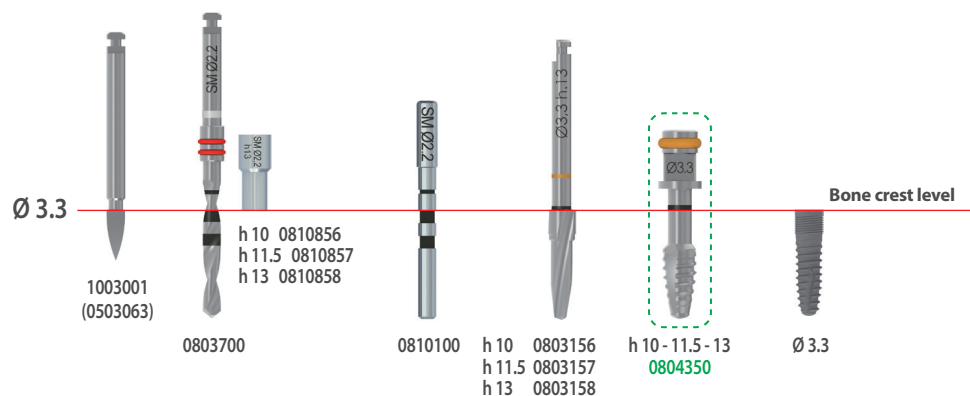
TWINNER

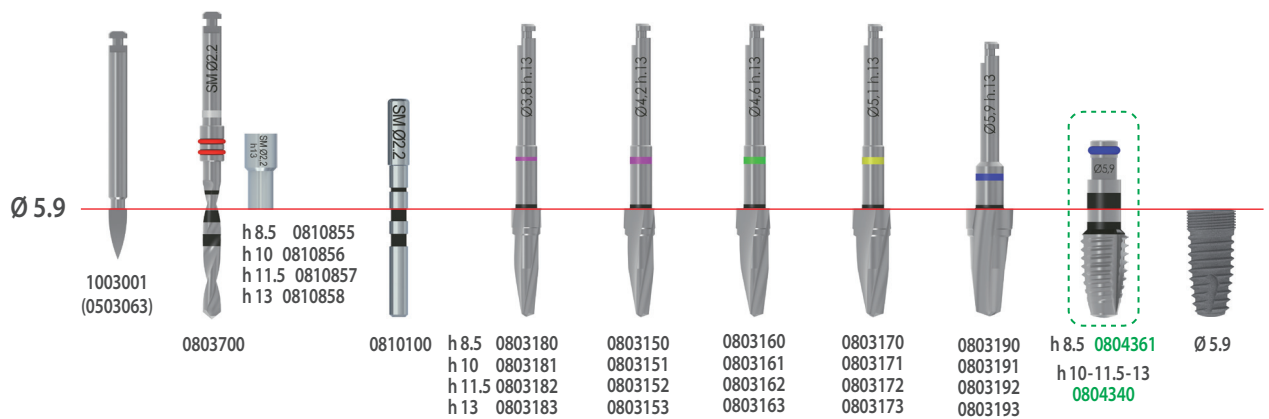
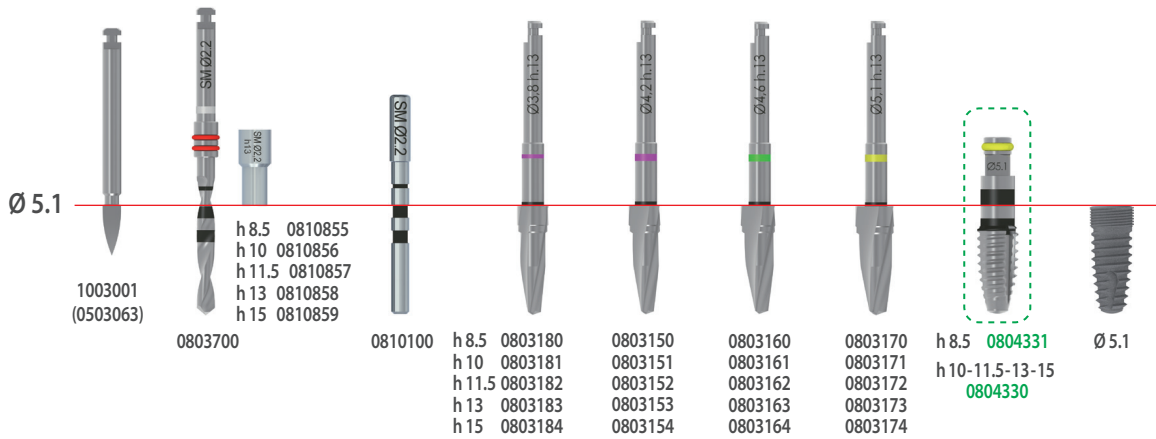
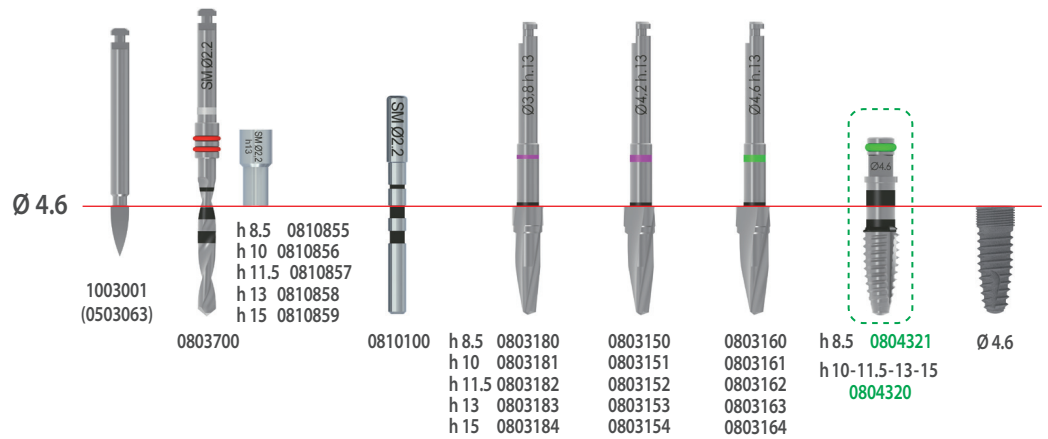
Implant diameter	Ø 3.5	Ø 4	Ø 4.5	Ø 5
NECK DIAMETER INDICATORS	 0810156	 0810157	 0810158	 1010153
SCREW TAPS	 0804370	 0804371	 0804372	 0804373
DEPTH MARKER READING				
 15 13 11.5 10 8.5				

SURGICAL SEQUENCE *PRIME*

SEQUENCE BASED ON IMPLANT DIAMETER AND HEIGHT

The devices with green code are optional
and they must be used in a compact bone.

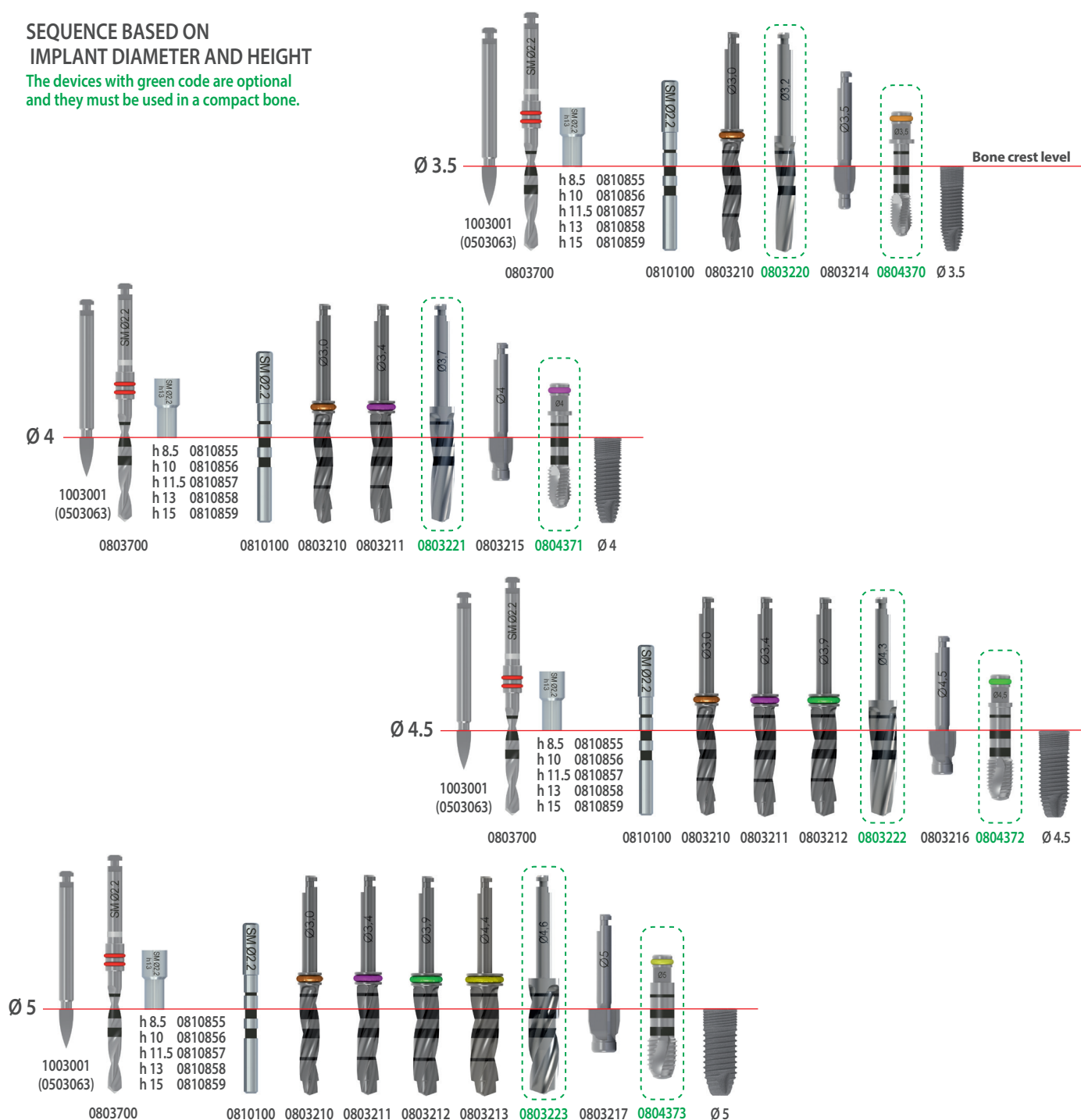




SURGICAL SEQUENCE *TWINNER*

SEQUENCE BASED ON IMPLANT DIAMETER AND HEIGHT

The devices with green code are optional
and they must be used in a compact bone.



The practitioner shall be responsible for evaluating the quality of the receiving bone and choose whether using the devices for compact bone. In the Surgical Sequence for Compact Bone, the Bur for Compact Bone must always be used, while the Screw Tap must be used only for the diameters and heights indicated in the following table:

Ø implant		implant h				
		h 8.5	h 10	h 11.5	h 13	h 15
Ø 3.5		■	■	■	■	●
Ø 4		■	■	■	●	●
Ø 4.5		■	■	●	●	●
Ø 5		■	■	●	●	●

■ do not use the Screw Tap

● use the Screw Tap

PREOPERATIVE AND STERILE DEVICE PREPARATION

PREOPERATIVE PREPARATION

Preparing the surgical room to assure proper environmental conditions for surgery, providing appropriate clothing for the patient and for the surgery staff, checking that appropriate instruments and a sufficient stock of implants are available: these are all activities to be carried out according to good dental practice, under the practitioner's responsibility.

STERILE DEVICE PREPARATION

The surgical instruments may be housed in a sterilizable surgical tray which can be used to easily set down and pick up all the instruments required for appropriately preparing the surgical site and for subsequent insertion of the implants.

IMPORTANT RECOMMENDATIONS FOR DEVICE CLEANING AND STERILIZATION

Cleaning and sterilisation procedures must be carried out under the practitioner's responsibility by qualified personnel using validated procedures and regularly maintained, calibrated and validated instruments. It is recommended to use validated and continually monitored cleaning and sterilization processes. Decontaminate each device by immersing it in a disinfectant solution suitable for the type of **material** - specified in the Instructions for Use - the device is made of. Wash all parts of the devices; disassemble the devices only if required and only as indicated in the Instructions for the specific device; use neutral detergents suitable for the material the parts of the devices are made of; the brushes and picks used must be previously decontaminated, washed and sterilised; do not use abrasive products or brushes and sponges with metal parts. Rinse all devices under running water, preferably demineralised, to eliminate any trace of detergent. Wear personal protection equipment when washing and rinsing the devices. In order not to compromise the sterilization process, dry the device with a clean, soft cloth or with filtered compressed air.

The devices must be packed in suitable material immediately prior to sterilising. To determine the suitability of the packing material with the sterilisation method, consult the reference standards and the information provided by the manufacturer of the material. Do not reuse the packaging material.

Prodent Italia advises you to refer to EN ISO 17665-1 for the development, validation and routine control of the steam sterilization process in autoclaves, and recommends using autoclaves with a type B sterilization cycle according to the EN 13060 classification.

Single-use devices must be cleaned and sterilized just before using them on the patient.

Reusable devices must be cleaned and sterilized just before using them on the patient. **Reusable** devices must be rinsed immediately after use to remove any residue, brushing them with a plastic, non-metallic, stiff bristle.

Ultrasonic cleaning is recommended according to the instructions provided by the washing machine and detergent manufacturers. Do not use products that contain substances that may cause alteration of the surfaces; do not place devices made of different metals in the same container, and observe the validated washing times. It is inadvisable to use chemical agents such as oxygenated water, glutaraldehydes and oxidising acids (oxalic acid, sulphuric acid, nitric acid) for titanium instruments. It is inadvisable to use detergents containing high concentrations of oxalic acid and chlorine for stainless steel instruments.

Sterilization in saturated steam autoclaves: the cleaned and thoroughly dried devices should be packed appropriately and sterilized in an autoclave according to the validated sterilization process and referring to the instructions provided by the autoclave manufacturer. It is important to remember that the presence of contaminants (organic residues, oxidation, etc.) released in the autoclave water cycle by previous sterilizations may adhere to the instruments, even if they are new, during the subsequent sterilization cycles.

PRODENT ITALIA S.r.l. has tested the efficacy, on devices of its own manufacture, of the sterilisation process in a saturated steam autoclave at 134°C for 5 minutes.

Storage

After sterilization, the devices must be kept in the bags used for sterilization. The bags are to be opened just before use. Items sterilized in bags may not be stored for longer than recommended by the bag manufacturer.

The devices must be stored in a cool and dry place away from direct sunlight, water and heat sources.

REGULATORY REFERENCES

All the devices are designed and manufactured in compliance with the latest directives and harmonised standards as regards the materials used, the production processes, the information provided and the packaging.

DISPOSAL PROCEDURES

After use, the devices must be disposed of as biological waste in accordance with the local regulations in force.

DRIVER











MANUAL DRIVER

Connected to the Digital Wrench, they allow the implants to be taken from the ampoule and to be placed in the implant site to then proceed with manual insertion. If necessary, complete insertion using the Driver connected to the Torque Ratchet.

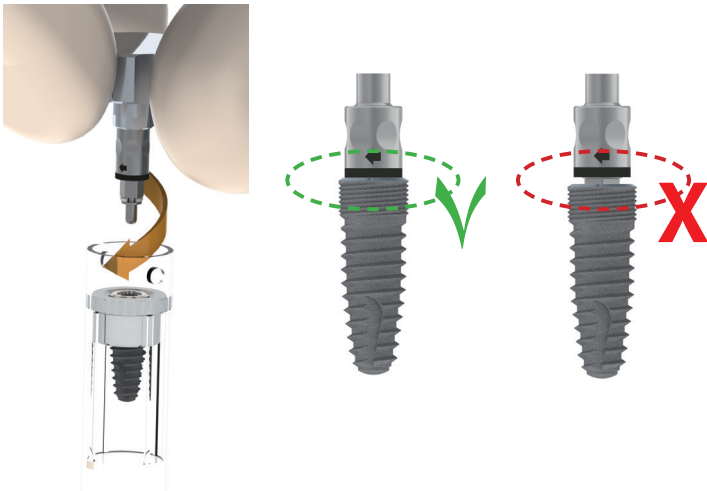
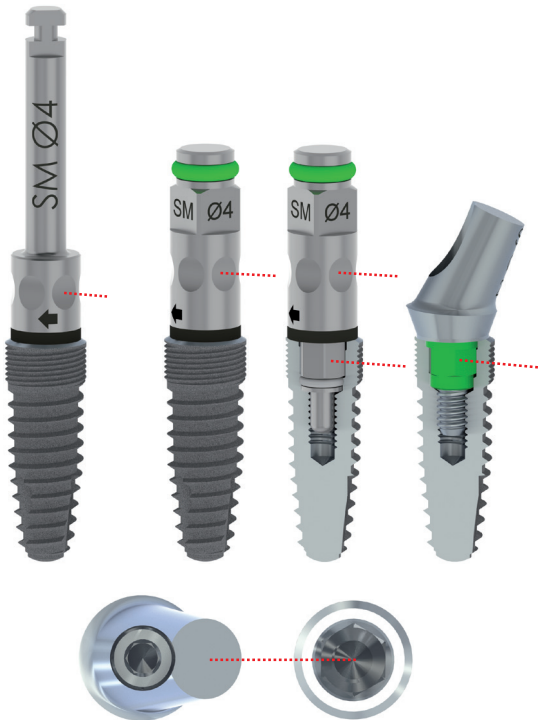
CONTRA-ANGLE DRIVER

Connected to the Contra-angle, they allow the implants to be taken from the ampoule and to be placed in the implant site to then proceed with mechanical insertion. Complete insertion by screwing in. Never exceed 25 RPM and a maximum torque of 45Ncm.

Primary stability of the implants is essential to ensure success; it is advisable to solve any unfavourable situations before surgery. During implant insertion, it is recommended not to exceed a torque of 60 Ncm.

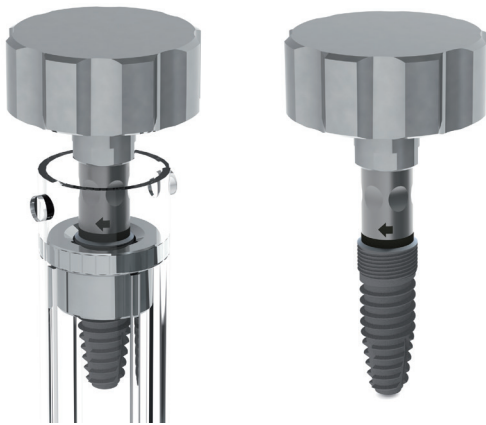
Restoration Range	Ø 3.3	Ø 3.6	Ø 4	Ø 4.5	Ø 5
MANUAL DRIVER	 0810170	 0810171	 0810172	 0810173	 0810174
CONTRA-ANGLE DRIVER	 0810175	 0810176	 0810177	 0810178	 0810179

During the procedures for extracting the implant from the plastic container, we recommend that you gently press the Driver and at the same time rotate it to perfectly connect the Driver and the implant.
Incorrect procedures would prevent proper use of the device: in these events, it is recommended to repeat the connection procedure.



The Drivers have six indents, which, when the driver is inserted in the implant, indicate the position of the hex faces of the connection. If the implant is prosthesised with an Angled Abutment, during the insertion of the implant it is important to match one of the driver's indents with the implant axis, so that once inserted, the Angled Abutment has an optimal angle.

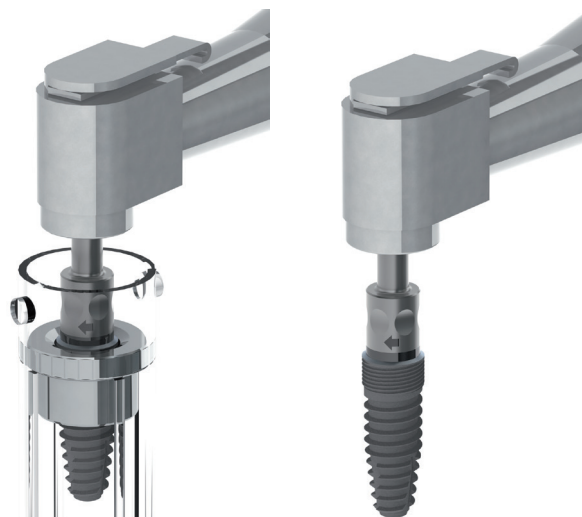
MANUAL PRIME RANGE IMPLANT INSERTION



The implant is extracted from the sterile ampoule with the Digital Wrench and the Manual Driver for the first screwing phase of the implant into the implant site.



MECHANICAL PRIME RANGE IMPLANT INSERTION



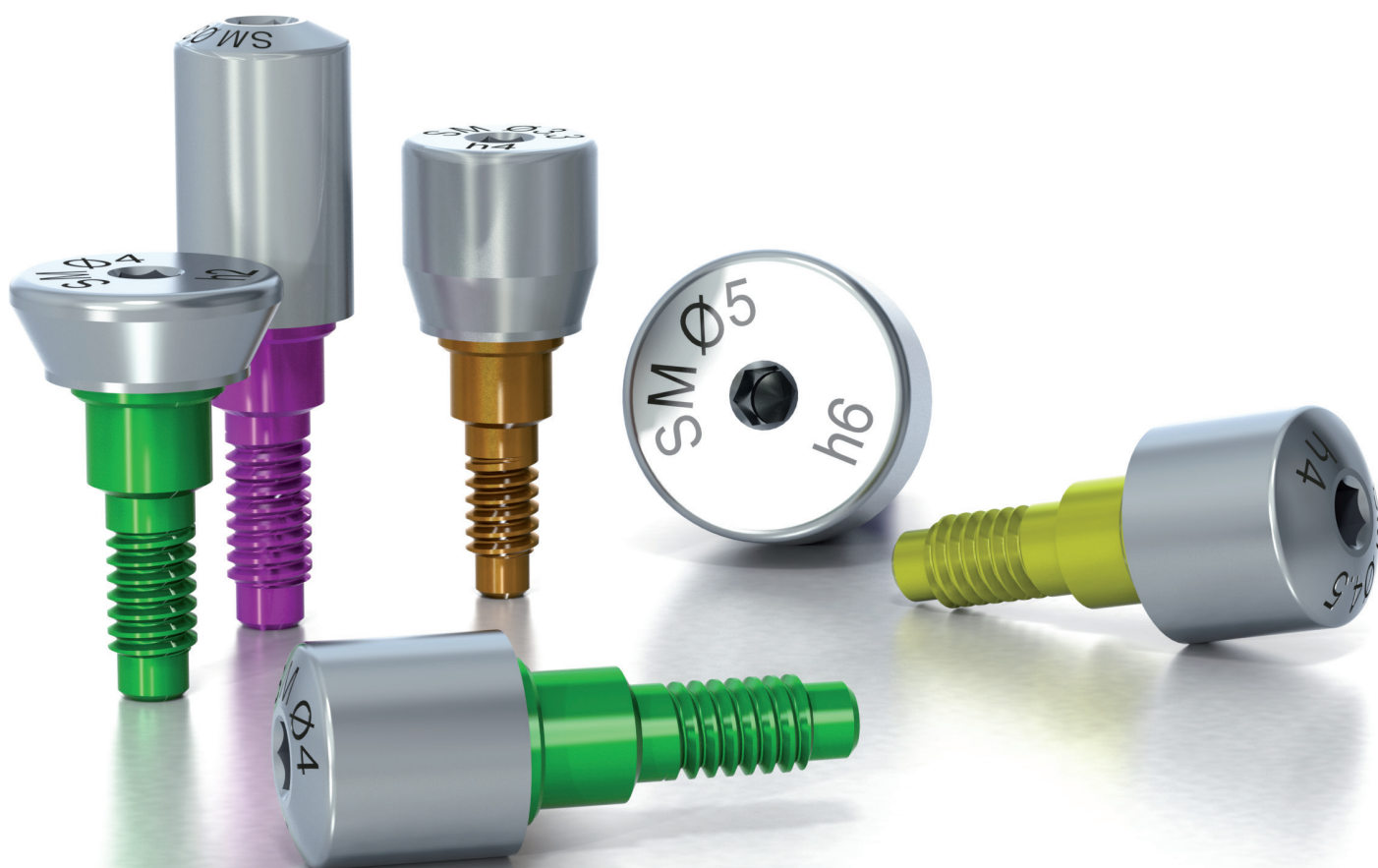
The implant is extracted from the sterile ampoule with the Contra-angle and the Contra-angle Driver for the first screwing phase of the implant into the implant site.




Insertion of the implant completed with the Ratchet and the Manual Driver.

HEALING SCREWS

The Healing Screws have a tapered or cylindrical transmucosal section, which, depending on the implant inserted, allows you to perfectly condition the soft tissues with various vertical emergence profiles.

The marking on the screw head allows the devices to be identified by means of the Restoration Range diameter and the transmucosal height:



Restoration Range		Ø 3.3	Ø 3.6	Ø 4	Ø 4.5	Ø 5
TAPERED HEALING SCREWS	ht 2	 0806148	 0806150	 0806153	 0806156	 0806159
	ht 4	 0806149	 0806151	 0806154	 0806157	 0806160
	ht 6	/	 0806152	 0806155	 0806158	 0806161
CYLINDRICAL HEALING SCREWS	ht 4	 0806205	 0806200	 0806201	 0806202	 0806203
	ht 6	 0806210	 0806206	 0806207	 0806208	 0806209

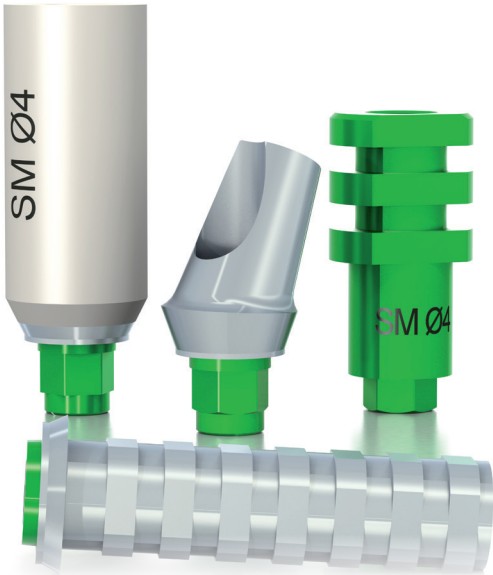
Based on the soft tissue conditioning carried out with the cylindrical or tapered Healing Screw, it is recommended to sequentially use devices with the same configuration both for impression taking and for the subsequent prosthesis, so that there are no dimensional interferences that might irritate the soft tissues surrounding the implants.

PROSTHETIC PLATFORMS

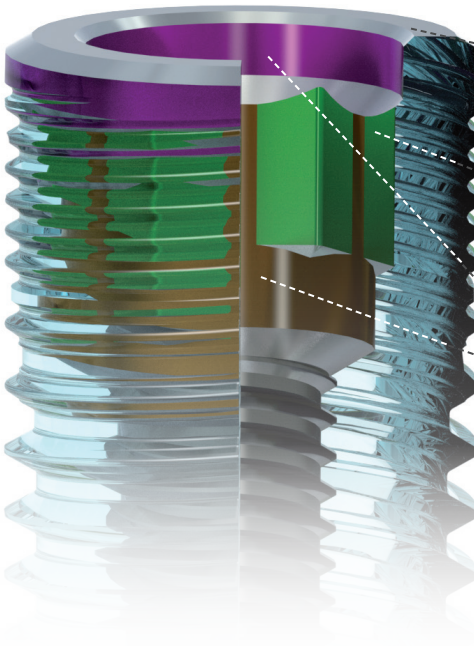
The PRIME RANGE implants share the same implant-restoration connection PERFORM SM, which in the secondary components is identifiable by the laser marking and colour code pertaining to the **restoration range**: this dramatically simplifies the identification of the secondary components to be used in relation to the implant inserted. Where possible, the symbol SM is marked.

Different restoration solutions are available: as well as the classic preformed components, you can choose other solutions, such as Multi Abutments, Temporary Aesthetic Abutments, Locator, and the FAST range dedicated to Immediate Loading Threaded Implants.

The connection diameter varies in relation to the implant diameter and defines the reference **restoration range**.



	PRIME	TWINNER	PRIME	TWINNER	PRIME	TWINNER	PRIME	TWINNER	PRIME
	Ø 3.3	Ø 3.5	Ø 3.8	Ø 4	Ø 4.2	Ø 4.5	Ø 4.6	Ø 5	Ø 5.1
	RESTORATION RANGE Ø 3.3 ORANGE		RESTORATION RANGE Ø 3.6 FUCHSIA		RESTORATION RANGE Ø 4 GREEN	RESTORATION RANGE Ø 4.5 YELLOW		RESTORATION RANGE Ø 5 BLUE	
HEX	2.2		2.4		2.5	2.7		3	
SCREW	1.6		1.8		1.8	2		2	



Connection surface: it allows distributing the compressive masticatory load.

Engaging hex: 1.6 mm high, it withstands torsional stresses preventing restoration component rotation and micromovements of the interface that contribute to loosening of the through screw.

Cylindrical surfaces: they avoid transverse and flexural stresses, preventing them from overloading the hex or the connection screw.

MATERIAL

- Grade 5 titanium: All the metal components, except for the Overcastable Abutment Base.
- Gold alloy: Overcastable Abutment Base.
- Polycarbonate: all the Castable components.
- Peek: Temporary abutment peek sleeve, Scanmarker.
- Acetal resin: Temporary Abutment.
- Polyphenylsulphone: Easycap.



IMPRESSION TAKING AND MODEL

The components intended for impression taking and model development are of fundamental importance to reproduce with absolute precision the position of the implants in the patient's oral cavity. For this reason, these components too are manufactured with the same construction tolerances as the implants and the restoration components.

Two different types of Transfer are available, which allow practitioners to choose the best solution in relation to the planned prosthetic restoration.

PRECISION IMPRESSION TRANSFER

They are suitable for taking precision dental impressions by means of a custom tray, even in the case of implants with non-parallel axes. They are available in a cylindrical and tapered variant, depending on the conditioning previously selected by means of the Healing Screws.

EASYCAP AND TEAR-OFF IMPRESSION TRANSFER

They are used to take impressions with an unperforated impression tray by means of tear-off technique for a maximum number of three implants with disparallelism within 8°. Connected to the Easycap, they are suitable for taking dental impressions with a high level of precision. Used without Easycap, they are suitable for taking standard dental impressions.

EASYCAP

It is sterilizable and resistant to high temperatures (up to 207°C). It is designed to be used connected to Easycap and Tear-off Impression Transfers, on which it is to be pressure-fitted.

IMPLANT ANALOGUES

They are used to create the working model on which the orthodontic technician constructs the prosthesis.

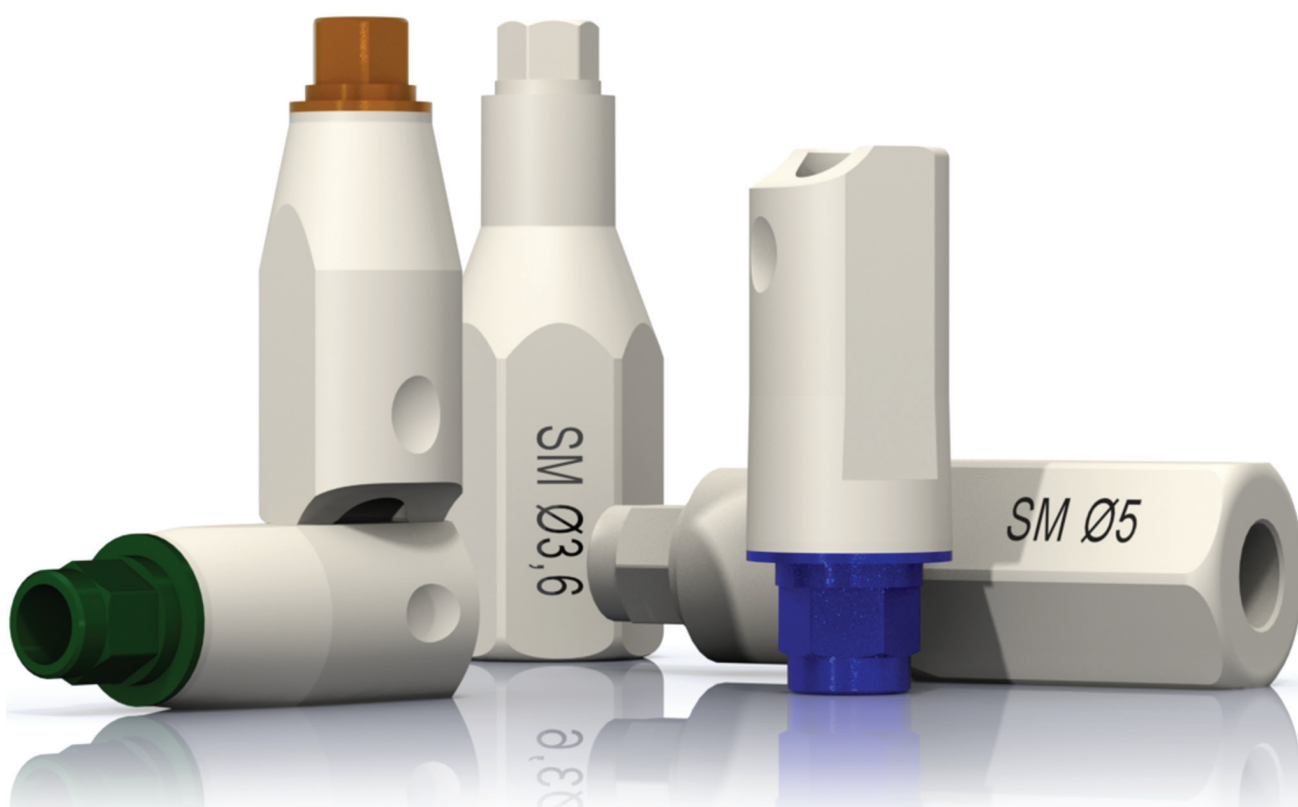
	Unique device				
EASYCAP	 0807000				
Restoration Range	Ø 3.3	Ø 3.6	Ø 4	Ø 4.5	Ø 5
EASYCAP AND TEAR-OFF IMPRESSION TRANSFER	 0807001	 0807002	 0807003	 0807004	 0807005
TAPERED PRECISION IMPRESSION TRANSFER	 0807105	 0807100	 0807101	 0807102	 0807103
CYLINDRICAL PRECISION IMPRESSION TRANSFER	 0807205	 0807200	 0807201	 0807202	 0807203
IMPLANT ANALOGUE	 0809105	 0809100	 0809101	 0809102	 0809103











INTRAORAL SCANMARKER

It is suitable for recording digital impressions using intraoral dental scanners; It will allow you to acquire the position of the implant connection.

SCANMARKER

It is suitable for recording digital impressions using a laboratory dental scanner. It will allow you to acquire the position of the implant connection.



Restoration Range	Ø 3.3	Ø 3.6	Ø 4	Ø 4.5	Ø 5
INTRAORAL SCANMARKER	 0807400	 0807402	 0807404	 0807406	 0807408
SCANMARKER	 0805845	 0805846	 0805847	 0805848	 0805849

TEMPORARY ABUTMENTS - BASES FOR AESTHETIC ABUTEMENTS

TEMPORARY AESTHETIC ABUTMENTS

They are composed of a titanium Base for Aesthetic Abutments and a Temporary Abutment Peek Sleeve (that can also be ordered as a spare part). These are suitable for temporary cemented or screw-retained prostheses of high aesthetic quality, and assure proper titanium coupling with the implant. The Peek component must not remain in the oral cavity for more than 180 days.

BASES FOR AESTHETIC ABUTMENTS

Used in combination with CAD-CAM systems to make customised prostheses, they allow you to create permanent cemented or screw-retained prostheses with high aesthetic quality. They also assure proper titanium coupling with the implant. To obtain an effective restoration solution, the Aesthetic Abutment should not be modified.

CONNECT BASES




































To be used with CAD-CAM systems to make personalised prostheses, these bases make it possible to create permanent cemented or screw-retained restorations with outstanding cosmetic characteristics whilst guaranteeing a titanium coupling with the implant. In order to obtain a good restoration result, the Connect Base must not be modified and postoperative soft tissue healing must take place using the same base combined with a personalised temporary restoration. Available in the ENGAGING version and in the NON-ENGAGING version, free from anti-rotational constraints, to ease insertion even in the presence of disparallelism. Both versions are available with two transmucosal heights (ht) to be chosen according to the restoration planned. Do not use non-engaging Connect Bases for single-implant restorations.

TEMPORARY ABUTMENT PEEK SLEEVE

May also be used as spare part for Temporary Aesthetic Abutment.

TEMPORARY ABUTMENTS (acetal resin)

Equipped with engaging system, they are suitable for constructing Temporary Abutments on which Cementable Temporary Prostheses can be made. Grindable with tungsten burs, they must not remain in the oral cavity for more than 30 days.











Restoration Range		Ø 3.3	Ø 3.6	Ø 4	Ø 4.5	Ø 5
TEMPORARY AESTHETIC ABUTMENTS		 SM Ø3.3 0805870	 SM Ø3.6 0805871	 SM Ø4 0805872	 SM Ø4.5 0805873	 SM Ø5 0805874
BASES FOR AESTHETIC ABUTMENTS		 0805850	 0805851	 0805852	 0805853	 0805854
CONNECT BASES engaging	ht 0	 0805856	 0805857	 0805858	 0805859	/
	ht 2	 0805880	 0805881	 0805882	 0805883	/
CONNECT BASES non-engaging	ht 0	 0805866	 0805867	 0805868	 0805869	/
	ht 2	 0805890	 0805891	 0805892	 0805893	/
TEMPORARY ABUTMENT PEEK SLEEVE		 SM Ø3.3 0805860	 SM Ø3.6 0805861	 SM Ø4 0805862	 SM Ø4.5 0805863	 SM Ø5 0805864
TEMPORARY ABUTMENTS (acetal resin)		/	 0805300	 0805301	 0805302	 0805303

STRAIGHT ABUTMENTS

Suitable for cemented prostheses and available in different transmucosal (ht) and coronal (hc) heights, to be chosen in relation to the planned prosthetic restoration.

In prosthetic restoration of screw-retained prostheses, they are suitable in combination with the Restoration Screw with Castable Cap only in the version with a coronal height (hc) of 3 mm not ground in the coronal section.



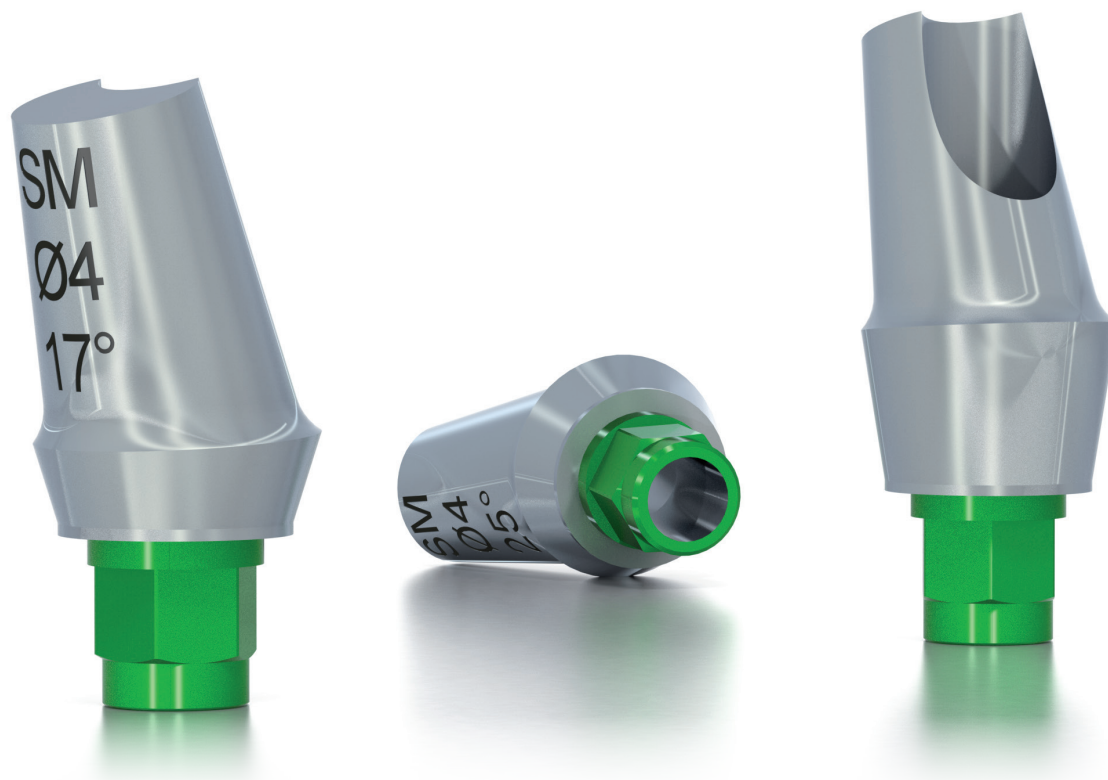
Restoration Range		Ø 3.3	Ø 3.6	Ø 4	Ø 4.5	Ø 5
STRAIGHT ABUTMENTS	ht 1.5 hc 3	/	 0805200	 0805210	 0805220	 0805230
	ht 3 hc 3	/	 0805201	 0805211	 0805221	 0805231
RESTORATION SCREWS with CASTABLE CAPS (for screw-retained prostheses)		/	 0805015		 0805019	








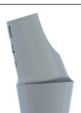




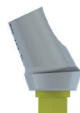
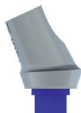




Restoration Range		Ø 3.3	Ø 3.6	Ø 4	Ø 4.5	Ø 5
STRAIGHT ABUTMENTS	ht 1.5 hc 8	 0805190	 0805204	 0805214	 0805224	 0805234
	ht 3 hc 8	 0805191	 0805205	 0805215	 0805225	 0805235

ANGLED ABUTMENTS

17°- 25° ANGLED ABUTMENTS

Suitable for cemented prostheses and available in two transmucosal heights (ht), to be chosen in relation to the planned prosthetic restoration, aimed at correcting any disparallelisms up to 17° or 25°, respectively.



Restoration Range		Ø 3.3	Ø 3.6	Ø 4	Ø 4.5	Ø 5
17° ANGLED ABUTMENTS	ht 1.5	 0805150	 0805100	 0805110	 0805120	 0805130
	ht 3	 0805151	 0805101	 0805111	 0805121	 0805131
25° ANGLED ABUTMENTS	ht 1.5	/	 0805102	 0805112	 0805122	 0805132
	ht 3	/	 0805103	 0805113	 0805123	 0805133

MILLING ABUTMENTS - OVERCASTABLE ABUTMENTS

MILLING ABUTMENTS

Suitable for making both abutments for conometric connection prostheses and customised abutments for cemented prostheses, in those cases which cannot be solved using 17° or 25° Angled Abutments.



















OVERCASTABLE ABUTMENTS

Restoration devices made up of a gold alloy base and a customisable coronal section. They are suitable for making restoration components using an overcasting process while keeping the dimensional characteristics of the restoration connection unchanged. For their use and to optimise the processing of the overcasting alloy, carefully read the Instructions for Use contained in the pack of the restoration component.

PREMILLED ABUTMENTS

Made of grade 5 titanium, they are indicated to make customized abutments, with maximum working height of 16 mm, to make cemented or screwed prostheses with CAD-CAM technique, using automatic milling machines. They are available in two different cylindrical sections: 11.5 mm (for angulation to 17°) and 15.8 mm (for angulation to 25°). Premilled Abutments are made with Medentika® attachment.



Restoration Range	Ø 3.3	Ø 3.6	Ø 4	Ø 4.5	Ø 5
MILLING ABUTMENTS	/	 SM Ø3.6 0805250	 SM Ø4 0805251	 SM Ø4.5 0805252	 SM Ø5 0805253
OVERCASTABLE ABUTMENTS	/	 SM Ø3.6 0805620	 SM Ø4 0805621	 SM Ø4.5 0805622	 SM Ø5 0805623
PREMILLED ABUTMENTS Ø 11.5	 SM Ø3.3 0805720	 SM Ø3.6 0805721	 SM Ø4 0805722	 SM Ø4.5 0805723	 SM Ø5 0805724
PREMILLED ABUTMENTS Ø 15.8	 SM Ø3.3 0805725	 SM Ø3.6 0805726	 SM Ø4 0805727	 SM Ø4.5 0805728	 SM Ø5 0805729

CASTABLE ABUTMENTS - CEMENTABLE CASTABLE ABUTMENTS
















CASTABLE ABUTMENTS

Suitable for constructing cemented or screw-retained prostheses only in cases where preformed components cannot be used; they may be modified by the dental technician up to the limit indicated on the screw head. Do not tighten with the Torque Ratchet but use only the Hex Screwdriver. Available also in the non-engaging version. Do not use Castable Abutments in the non-engaging version to prosthesize individual implants.

CEMENTABLE CASTABLE ABUTMENTS

Suitable for cemented prostheses only in those cases where preformed components cannot be used.



Restoration Range	Ø 3.3	Ø 3.6	Ø 4	Ø 4.5	Ø 5
CASTABLE ABUTMENTS	 0805325	 0805320	 0805321	 0805322	 0805323
CASTABLE ABUTMENTS non-engaging	 0805330	 0805331	 0805332	 0805333	 0805334
CEMENTABLE CASTABLE ABUTMENTS	 0805355	 0805350	 0805351	 0805352	 0805353











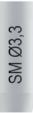
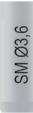
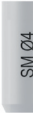


MULTI ABUTMENTS

Multifunctional components suitable for temporary or permanent prostheses, according to the method that is most suited to the clinical case. Available in the ENGAGING version or in the NON-ENGAGING version, which is free from engagement constraints so as to ease insertion even in the event of disparallelism. The use of Ø 3.3 Multi Abutments is not recommended for making screw-retained multi-component prostheses. Do not use Multi Abutments in the non-engaging version to prosthodontize individual implants.

MULTI ABUTMENT CASTABLE SLEEVES

They are designed to be combined with the Multi Abutments to make permanent prostheses with adhesive bonding system, in order to obtain total passivation of the secondary structures.

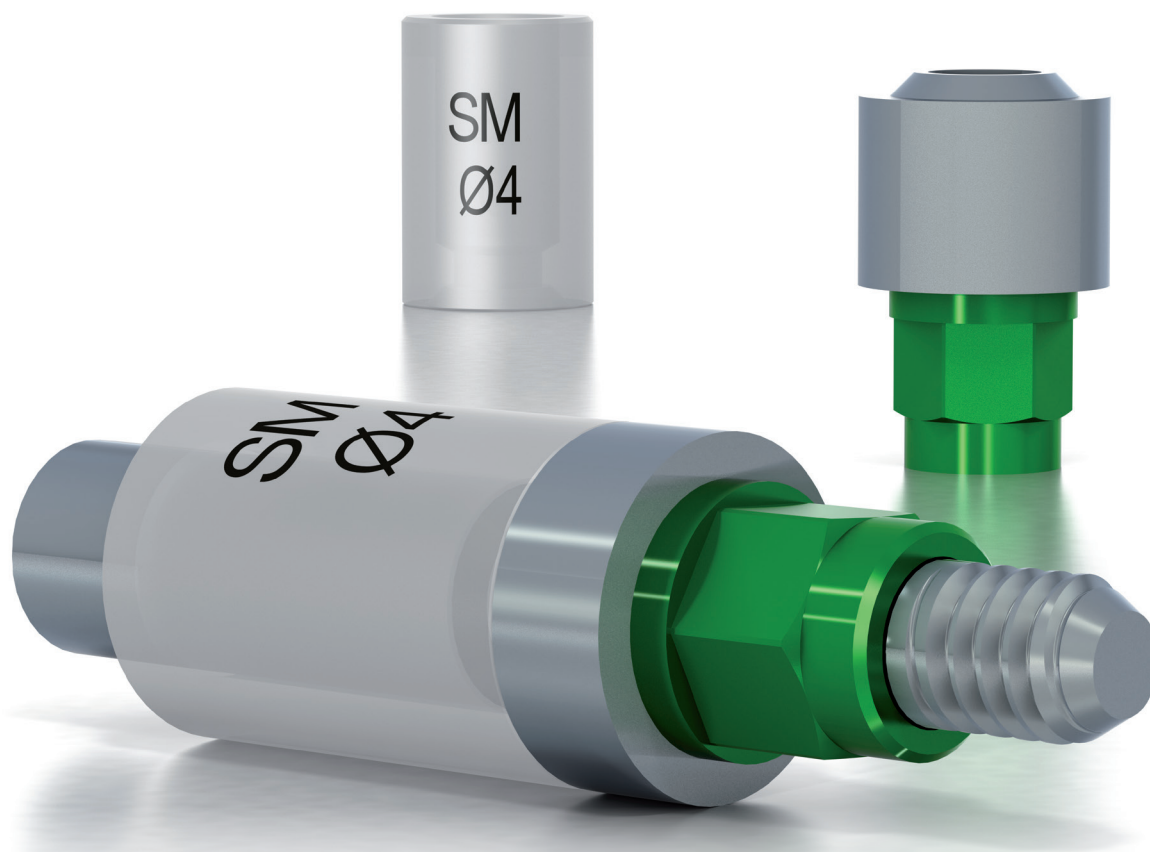






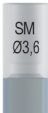







Restoration Range	Ø 3.3	Ø 3.6	Ø 4	Ø 4.5	Ø 5
MULTI ABUTMENTS engaging version	 0805315	 0805316	 0805317	 0805318	 0805319
MULTI ABUTMENTS non-engaging version	 0805305	 0805306	 0805307	 0805308	 0805309
MULTI ABUTMENTS castable version	 0805260	 0805261	 0805262	 0805263	 0805264

ROD ABUTMENTS

ROD ABUTMENTS

Suitable for constructing overdenture bars. Made up of a titanium base and a customisable coronal section (can also be ordered as spare part). The base has a cylindrical-shaped transmucosal section and is available in two different transmucosal heights (ht). It is equipped with an engaging system that connects to the implant and a sloping surface on which the customised section rests.




















Restoration Range		Ø 3.6	Ø 4	Ø 4.5	Ø 5
ROD ABUTMENTS	ht 1.5	 0805510	 0805512	 0805514	 0805516
	ht 3	 0805511	 0805513	 0805515	 0805517
CASTABLE SPARE PARTS		 0805295	 0805296	 0805297	 0805298

BALL ATTACHMENTS

Suitable for anchoring overdenture prostheses, they are supplied housed on an acetal resin support that can also be used as Impression Transfer, both for placing and first screwing a Ball Attachment in the oral cavity. Available with a ball diameter of 2.5 mm and in three different transmucosal heights (ht). The metal containers for Caps and retentive Caps, the latter available in two different types and colours depending on the sealing degree, are to be incorporated in the full prosthesis.



Restoration Range		Ø 3.6	Ø 4	Ø 4.5	Ø 5
BALL ATTACHMENTS	ht 1.5	 0805403	 0805413	 0805423	 0805433
	ht 3	 0805404	 0805414	 0805424	 0805434
	ht 5	 0805405	 0805415	 0805425	 0805435
		Unique device			
BALL ATTACHMENT TRANSFER Ø 2.5		 0507045			
BALL ATTACHMENT ANALOGUE Ø 2.5		 0509053			
Accessories		for ball attachment			
CAPS		Pink (seal 800/950g)  1108001 (6 pcs.)		White (seal 1200/1300g)  1108009 (6 pcs.)	
METAL CONTAINER		 1108003 (2 pcs.)			

OT EQUATOR

FASTENING SYSTEM FOR OVERDENTURE

The attachments for mobile prosthesis **OT EQUATOR** with low vertical profile and available for the main platforms of the PRIME Range are one of the smallest attachments available on the market. This system provides a number of different possibilities: depending on the space available, it is possible to plan different types of overdenture based solutions.

The caps are available with four different retention levels, which vary according to the colour; they must always be used with their special metal containers, so as to assure their life over time and to facilitate replacement procedures.

The total vertical outer dimensions (male + cap and housing) are only 2.1 mm. The maximum width is Ø 4.4 mm.







































	PRIME	TWINNER	PRIME	TWINNER	PRIME	TWINNER	PRIME	TWINNER	PRIME
	Ø 3.3	Ø 3.5	Ø 3.8	Ø 4	Ø 4.2	Ø 4.5	Ø 4.6	Ø 5	Ø 5.1
	RESTORATION RANGE Ø 3.3 ORANGE		RESTORATION RANGE Ø 3.6 FUCHSIA			RESTORATION RANGE Ø 4 GREEN		RESTORATION RANGE Ø 4.5 YELLOW	
	EQUATOR Ø 3.3		EQUATOR Ø 3.6			EQUATOR Ø 4		EQUATOR Ø 4.5	
h 1	1108033		1108039			1108045		1108051	
h 2	1108034		1108040			1108046		1108052	
h 3	1108035		1108041			1108047		1108053	
h 4	1108036		1108042			1108048		1108054	
h 5	1108037		1108043			1108049		1108055	
h 6	1108038		1108044			1108050		1108056	

CONTENT OF THE OT EQUATOR PACK













each of the EQUATOR item codes mentioned in the table above contains the following devices:

TITANIUM + TiN ATTACHMENT	STAINLESS STEEL CAP CONTAINER	PROTECTIVE DISK	CAPS KIT, VARIOUS TYPES (4 pcs.) (purple: strong, white: standard, pink: soft, yellow: extra soft)

Spare parts					
CAPS	PURPLE STRONG retention 2.7 Kg  1108057 (4 pack)	WHITE STANDARD retention 1.8 Kg  1108058 (4 pack)	PINK SOFT retention 1.2 Kg  1108059 (4 pack)	YELLOW EXTRA SOFT retention 0.6 Kg  1108060 (4 pack)	BLACK only for LABORATORY USE  1108061 (4 pack)
CAP CONTAINERS	STAINLESS STEEL CAP CONTAINER  1108062 (2 pack)			TITANIUM CAP CONTAINER  1108064 (2 pack)	
SPARE PARTS KIT	STAINLESS STEEL CAP CONTAINER 	PROTECTIVE DISK 	BLACK CAP for laboratory use  1108063	CAPS KIT, VARIOUS TYPES (4 pcs.) (purple: strong, white: standard, pink: soft, yellow: extra soft)    	
OT EQUATOR CASTABLE MALES	 1108065 (2 pack)				

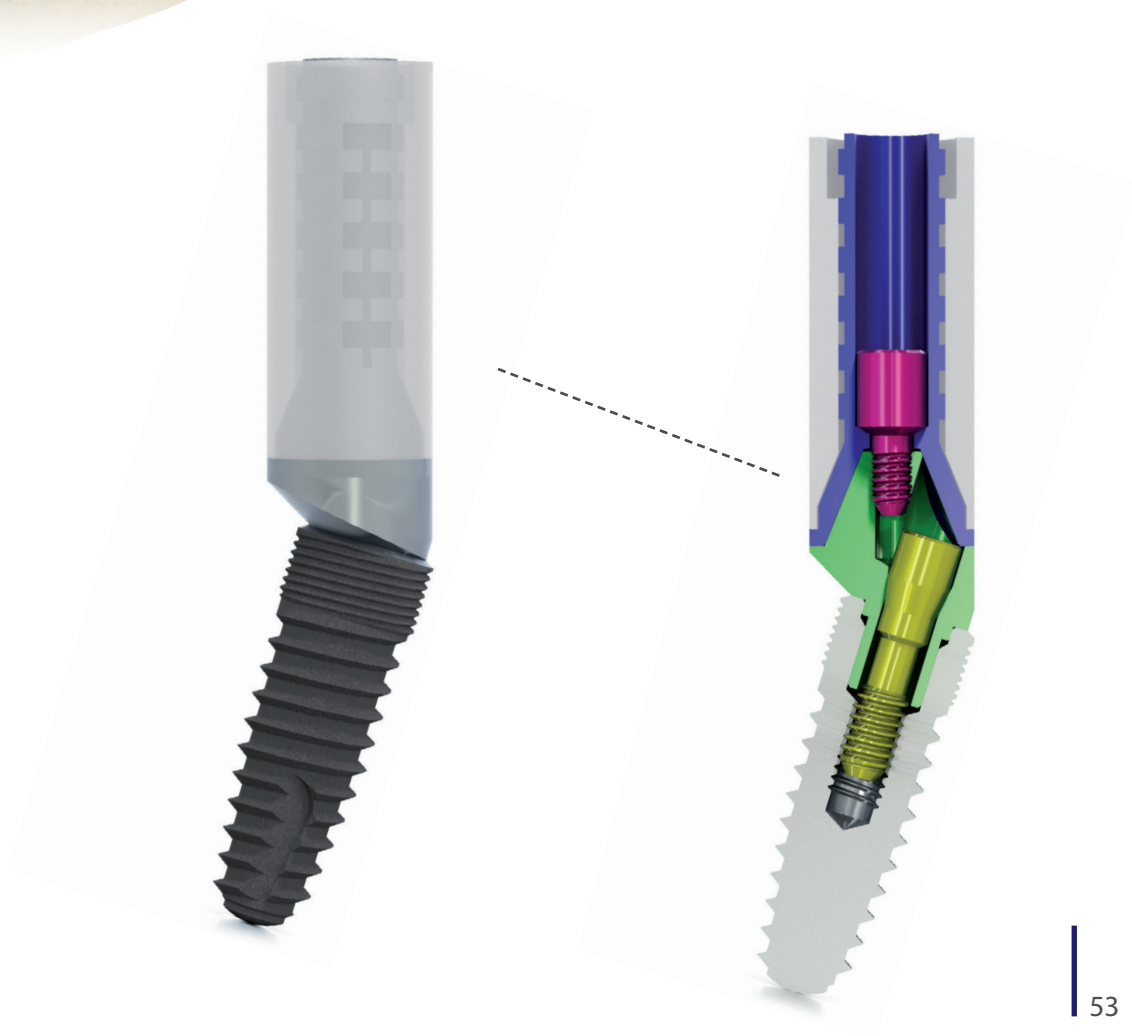
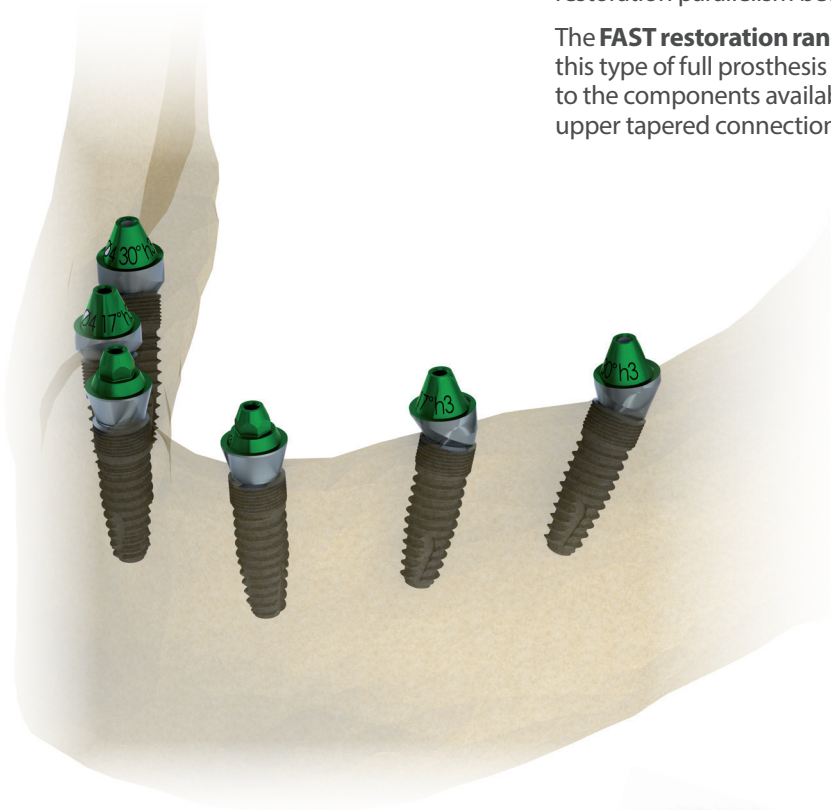
Rods					
THREADED OT EQUATOR KIT WITH BONDING SLEEVE	THREADED OT EQUATOR - 2 pcs. for titanium sleeve (1.6 mm thread)	THREADED SLEEVES - 2 pcs. (1.6 mm thread)	STAINLESS STEEL CAP CONTAINERS - 2 pcs.	STEEL SPACERS - 2 pcs. for threaded sleeve	CAPS KIT, VARIOUS TYPES - 8 pcs. (2 white: standard, 2 pink: soft, 2 yellow: extra-soft, 2 black: processing)
					
1108066					
THREADED OT EQUATOR	FOR CAD/CAM BAR (2 mm thread)			FOR TITANIUM SLEEVE (1.6 mm thread)	
	 1108067			 1108070	
CASTABLE OT EQUATOR KIT	CASTABLE "SEMI-SPHERICAL" MALES 2 pcs.	STAINLESS STEEL CAP CONTAINERS 2 pcs.		CAPS KIT, VARIOUS TYPES - 4 pcs (2 white: standard, 2 pink: soft)	
					
1108069					
OT EQUATOR SLEEVE	TITANIUM SLEEVE (1.6 mm thread)			SPACER FOR OT EQUATOR SLEEVE	
	 1108071			 1108072	
THREADED COVER SCREW	 1108073				
PASSIVE BAR CONNECTION SYSTEM - "ELASTIC SEEGER"	CASTABLE ABUTMENTS FOR SEEGER CONTAINERS 2 pcs.	RED PLASTIC SEEGER for laboratory use 3 pcs.	ELASTIC RETENTION SEEGER for prosthesis locking 3 pcs.	THREADED COVER SCREWS 2 pcs	
					
1108068					
SEEGER	RED (for laboratory use)			WHITE (for bar locking)	
	 1108074 (6 pack)			 1108075 (6 pack)	
CASTABLE CYLINDERS FOR SEEGER	h. 2.5			h. 3.5	
	 1108076 (6 pack)			 1108077 (6 pack)	

OT EQUATOR

Accessories	
OT EQUATOR TRANSFER (for custom tray)	 1108078 (2 pack)
IMPLANT ANALOGUES FOR LABORATORY USE	 1108079 (2 pack)
TEAR-OFF IMPRESSION TRANSFER	 1108080 (2 pack)
Instruments	
OT EQUATOR DRIVER FOR TORQUE RATCHET	 1110000
WRENCH FOR PARALLELOMETER NORMO	 1108081
SQUARE WRENCH + HOLDER (for OT EQUATOR screwing) 1.25 mm square	 1108082
INTERCHANGEABLE HOLDER	 1108083
CONNECTOR FOR TORQUE CONTROLLER 1.25 mm square	 1108084
CAP INSERTION TOOL EQUATOR - NORMO - MICRO	 1108085
CURVED TOOL FOR SEEGER INSERTION (to use with universal handle)	 1108086
CAP EXTRACTOR	 1108087
BLUE UNIVERSAL HANDLE, TOOL HOLDER AND SEEGER INSERTION TOOL	 1108088

In the case of immediate loading of screw-retained prostheses used in multiple implants, restoration components are required to convert - simultaneously with insertion of the fixtures - the engagement of the implants and their disparallelism into a non-engaging transmucosal connection. These shall also result in a restoration parallelism between the abutments.

The **FAST restoration range** described in the following pages allows you to make this type of full prosthesis with any kind of surgical-prosthetic techniques, thanks to the components available with three different angulations and equipped with upper tapered connection.



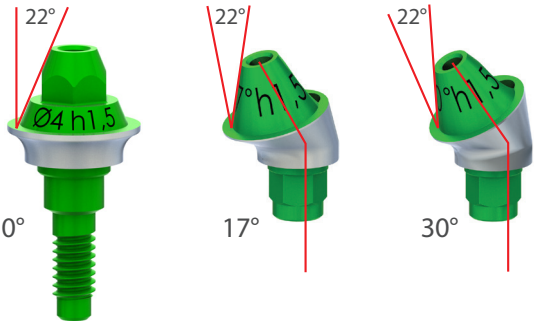
RESTORATION RANGE *FAST*

The FAST restoration range has been designed to simplify the construction of immediate loading full threaded prostheses, parallelizing implants with significant divergences (a usual condition in the distal region) in complex restoration projects, such as treatment of toothless patients. The immediate loading of full temporary prostheses brings significant benefits to patients in terms of extremely short realization times and contained costs. Thanks to the FAST range, practitioners can plan to carry out both the insertion of the implants and the temporary prosthesis (pending the final prosthesis) in day surgery.

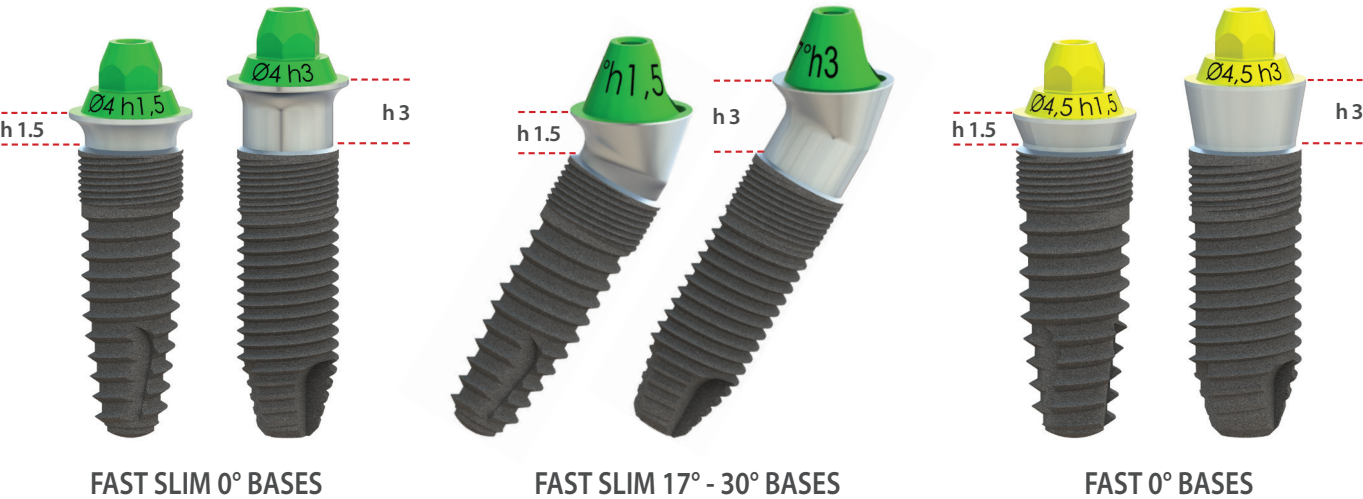
Depending on the angle of the PRIME RANGE implants, different types of FAST restoration components are available to parallelise the implant insertion axis of the screwed overstructure.

Prosthetic ranges Ø 3.6 and Ø 4 are characterized by *Slim* version of Fast Bases. This version has a cylindrical transmucosal section, reduced compared to the version for the prosthetic ranges Ø 4.5 and Ø 5; This, to minimize interference with bone crest surrounding the implant neck, during the prosthetic placement in surgical *flapless* techniques, for example in the computer-assisted guided surgery where frequently does not run the gingival flap.

	FAST SLIM BASES		FAST BASES	
RESTORATION RANGE	<div>RESTORATION RANGE</div> <div>Ø 3.6</div> <div>FUCHSIA</div>	<div>RESTORATION RANGE</div> <div>Ø 4</div> <div>GREEN</div>	<div>RESTORATION RANGE</div> <div>Ø 4.5</div> <div>YELLOW</div>	<div>RESTORATION RANGE</div> <div>Ø 5</div> <div>BLUE</div>
AVAILABLE BASES	0° - 17° - 30°	0° - 17° - 30°	0°	0°







The tapered section of the FAST Bases allows the screw-retained prostheses to be connected in the case of disparallelisms of up to 22°. This feature, in combination with FAST 17° or 30° Angled Bases allows prosthesis also of implants angled at 45° with respect to the implant axis.




























In implant-restoration treatments with Immediate Loading Threaded Implants, it is recommended to plan implants with a diameter suited to the size of the missing part, thus optimising the quality of the final result both in terms of aesthetics and biomechanics. The table below indicates the dental position where the PRIME RANGE implants perform best in Immediate Loading Threaded Implants. By “discretionary position” we mean a position selected by the practitioner only after careful evaluation of the implant size in relation to the prosthetic load.

IMPLANT SIZE INDICATIONS FOR IMMEDIATE LOADING THREADED IMPLANTS

colour code								
Ø Restoration range	Ø 3.6			Ø 4		Ø 4.5		Ø 5
Ø Implants	PRIME	TWINNER	PRIME	TWINNER	PRIME	TWINNER	PRIME	PRIME
	Ø 3.8	Ø 4	Ø 4.2	Ø 4.5	Ø 4.6	Ø 5	Ø 5.1	Ø 5.9


























UPPER

missing parts

CENTRAL INCISORS					
LATERAL INCISORS					
CANINES					
PREMOLARS					
MOLARS					

LOWER

missing parts

CENTRAL INCISORS					
LATERAL INCISORS					
CANINES					
PREMOLARS					
MOLARS					

 optimal position  discretionary position  contraindicated position

SURGICAL ACCESSORIES

FAST COUNTERSINK BUR

Cutting instrument useful for milling the bone crest to grind the cortical section of angled implants prosthesis with FAST 17°-30° Bases.



0803300

GUIDE FOR FAST COUNTERSINK BUR

Useful accessory for correct use of the FAST Countersink Bur, that protects the head of the implants during the bone crest grinding procedure.

Fast Countersink Bur Guides must not be used for PRIME and TWINNER implants, as they are intended for use with implants with a TS connection (code 2410300) only.



0807302 3.6 Ø (4 pcs)



0807303 4 Ø (4 pcs.)

CARRIER FOR FAST BASES

Instrument to place the 17°-30° FAST bases in the oral cavity, also useful for correcting orientation when connecting the Bases to the implants.



0810141

FAST HEALING CAP

A useful component to protect the FAST connection pending prosthesis of Immediate Loading Threaded Implants.

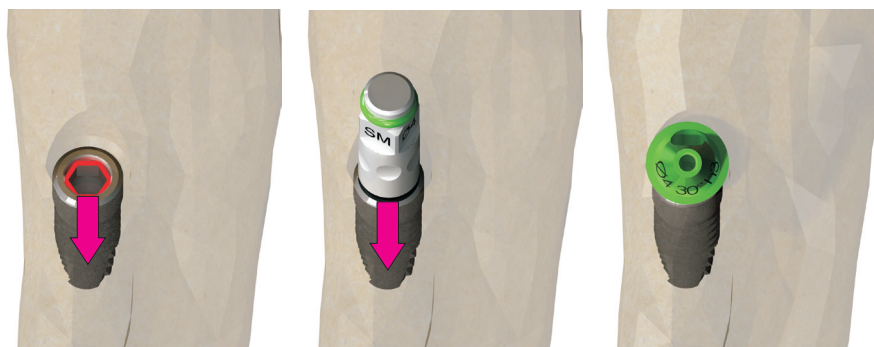


0806300

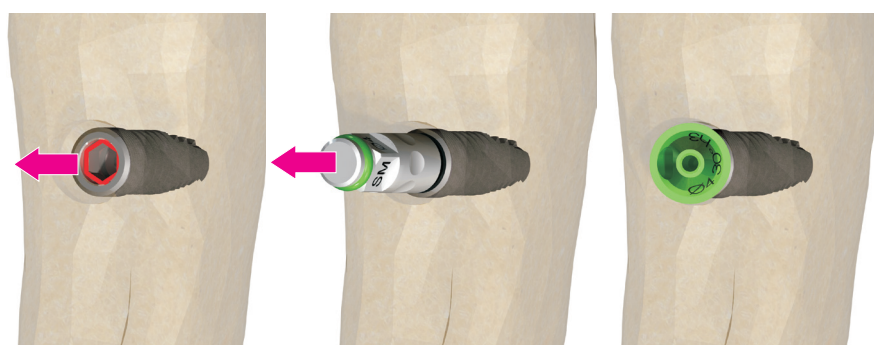
IMPLANT POSITIONING

Total rehabilitation of toothless patients through an Immediate Loading Threaded Implant, with a removable screw-on prosthesis, is normally carried out on at least 6 fixtures with an implant insertion torque of not less than 35 Ncm. In these rehabilitation cases, it is advisable not to exceed an angulation of 45° for the implants placed in the distal regions.

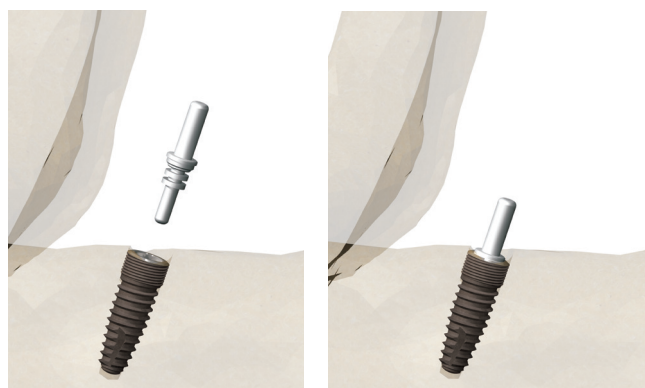
The Surgical Sequence for inserting the PRIME RANGE implants is described in detail in the dedicated section.



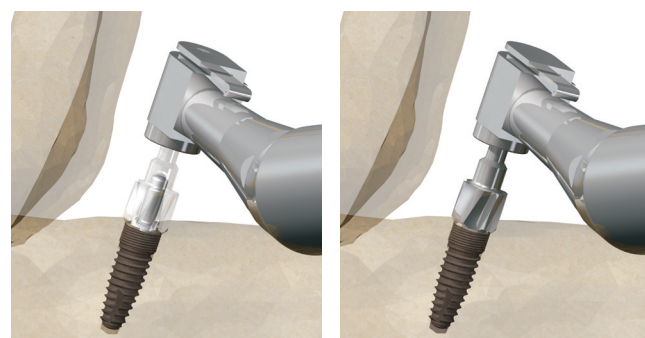
In the case of mesiodistal disparallelism (or vice versa), the implant shall be positioned leaving one side of the internal hex in mesial or distal direction - using the six oval indents on the Drivers corresponding to the six sides of the hex - to optimise recovery of the implant axis through the 17°/30° FAST Bases.



In the case of vestibular-lingual (or vice versa) disparallelism or vestibular-palatal (or vice versa) disparallelism, the implant shall be positioned leaving one side of the internal hex in vestibular or lingual-palatal direction - using the six oval indents on the Drivers corresponding to the six sides of the hex. Also in this case, this is done to optimise recovery of the implant axis through the 17°-30° FAST Bases.

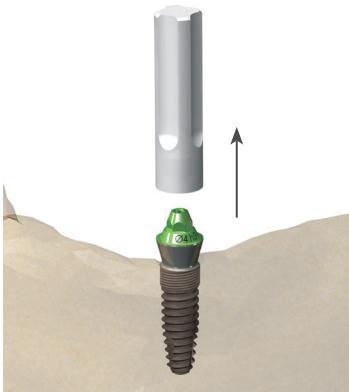


Before inserting the FAST 17°-30° Angled Bases in the implants, use the FAST Countersink Bur over the head of the implants. To protect the implant head while passing with the Bur, use the Guide for FAST Countersink inserting it in the implant.



Pass the FAST Countersink Bur (do not exceed 800 RPM and a torque of 55 Ncm) -flushing with abundant sterile saline solution- over the implant head so as to countersink the bone crest creating the correct housing for the FAST Bases.

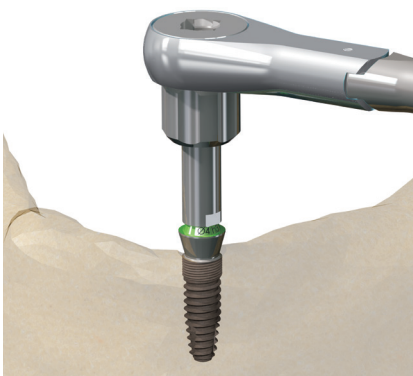
FAST 0° BASES



Use the plastic carrier provided in each pack to place the FAST 0° Base (straight single component usable in case of implants parallel to the implant axis) in the oral cavity and to do the first screwing into the implant. Remove the plastic carrier by slightly levering upward.



Screw on the FAST 0° Base using the CH 2.6 hex wrench.



Finally tighten using the torque ratchet adjusted to 30 Ncm on the wrench square.

FAST 17° - 30° BASES



To place the FAST 17° or 30° Base (angled component with Fastening Screw usable in case of implants not parallel to the implant axis) in the oral cavity, while outside of the mouth screw the titanium Carrier for FAST 17°/30° Bases onto the threaded head of the Base. Insert the FAST 17° or 30° Base into the implant, parallelising the implant axis.



Manually screw in the Fastening Screw of the FAST 17° or 30° Base using the Hex Screwdriver, or mechanically using the Contra-angle Hex Screwdriver (max. 30 Ncm).



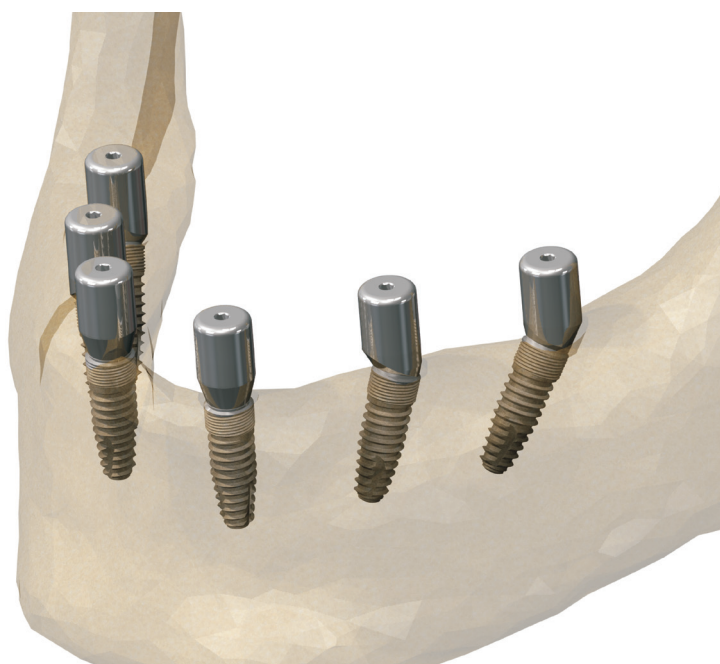
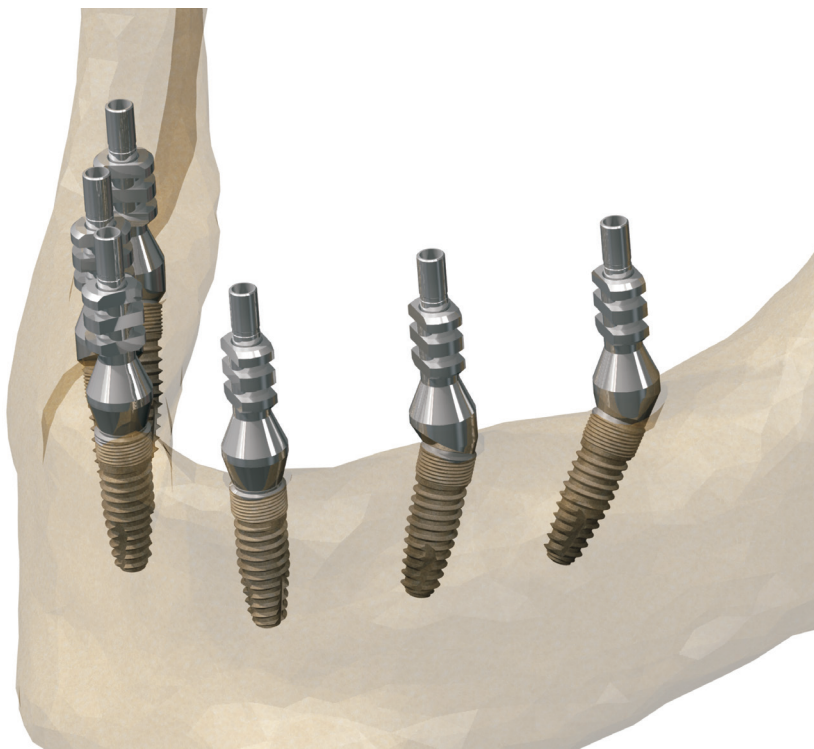
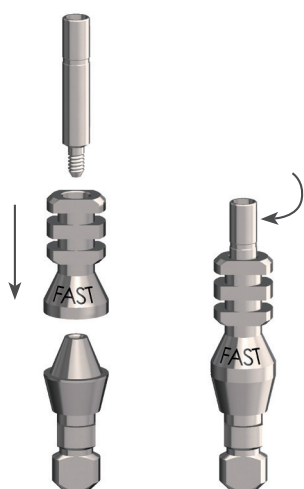
Unscrew the Carrier from the Base head and tighten definitively the device using the surgical/prosthetic torque ratchet adjusted to 30 Ncm connected to the Hex Bit for Torque Ratchet.

After inserting all the FAST Bases (straight and angled), it is advisable to take an intraoral X-ray to check that the implants and the FAST Bases are correctly coupled.

At this point, you can proceed with impression taking using the FAST Precision Impression Transfers.

Only use the Prodent Hex Screwdriver to screw the FAST Transfers onto the FAST Bases and take an impression using an open individual scoop.

The dental laboratory can reproduce the model using the FAST Analogues that perfectly reproduce the tapered head of both straight and angled FAST Bases.

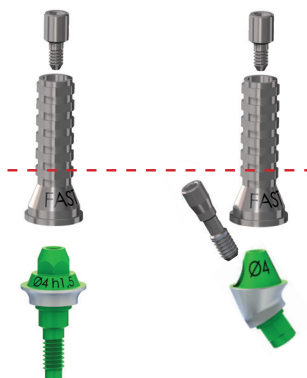


During the temporary laboratory phases, the FAST Healing Caps can be placed to consolidate the soft tissues.

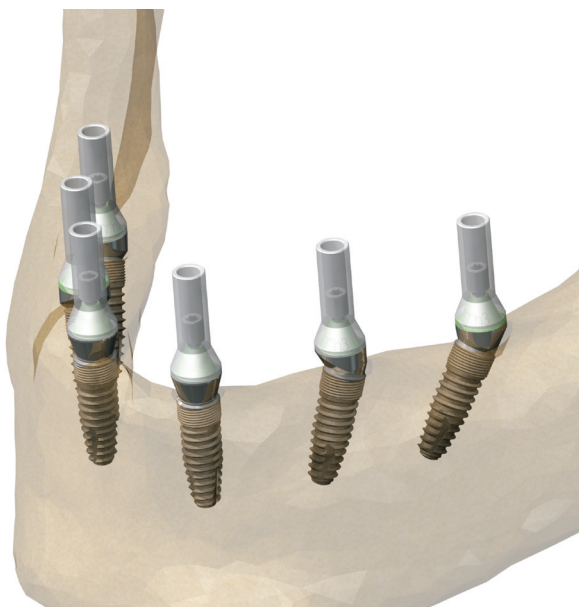
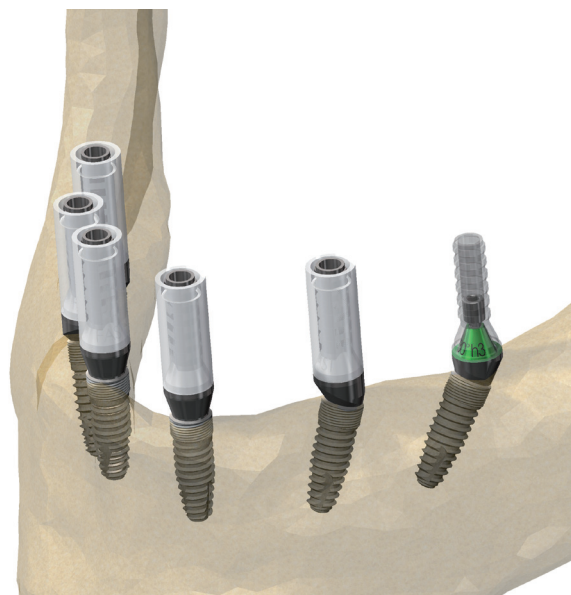
After removing the Healing Caps from the FAST 0° Bases, make sure that they are correctly and completely connected to the implants by tightening them to a torque of 30 Ncm using the Torque Ratchet.



The temporary prosthesis can be constructed using the FAST Temporary Abutments. In case of a preventive construction of the prosthesis - opened in correspondence of the FAST Bases - the prosthesis may be directly attached to the FAST Temporary Abutments. The FAST Temporary Abutments must not be cut below the first ring starting from the bottom. Tighten only with the surgical/prosthetic torque ratchet (20 Ncm).








To construct the final prosthesis through passivation, use the FAST Castable Temporary Abutments connected to the FAST Temporary Abutment for the construction and gluing of the final device. Do not exceed a torque of 20 Ncm to tighten the final prosthesis.










To construct the final prosthesis, use the FAST Castable Abutment, with which it is possible to create a stronger structure through fusion. Do not exceed a torque of 20 Ncm to tighten the final prosthesis.

RESTORATION RANGE *FAST*

Restoration Range		Ø 3.6			Ø 4		
Angles		0°	17°	30°	0°	17°	30°
FAST SLIM BASES Ø 3.6 - Ø 4	ht 1.5	 0805960	 0805962	 0805964	 0805970	 0805972	 0805974
	ht 3	 0805961	 0805963	 0805965	 0805971	 0805973	 0805975

Restoration Range		Ø 4.5	Ø 5
Angles		0°	0°
FAST BASES Ø 4.5 - Ø 5	ht 1.5	 0805920	 0805940
	ht 3	 0805921	 0805941

	Unique device
FAST TEMPORARY ABUTMENT	 0805930
FAST CASTABLE TEMPORARY ABUTMENT	 0805932
FAST CASTABLE ABUTMENT	 0805931
FAST ANALOGUE	 0809200
FAST TRANSFER	 0807300
FAST INTRAORAL SCANMARKER	 0807420
FAST SCANMARKER	 0805855

HEX SCREWDRIVERS

For screwing and unscrewing all screw types. Available in three different lengths, it can be easily used also in the case of customised restoration components.



CONTRA-ANGLE SCREWDRIVER

Connected to the Contra-angle, it is used for screwing and unscrewing Fastening Screws and Restoration Screws. Available in two different sizes.



PREMILLED SCREWDRIVER

Made of surgical stainless steel, it is suitable for tightening and loosening intact and customized Premilled Abutments with maximum working height of 16 mm.



TORQUE RATCHET

With torque function to complete the final tightening of Fastening Screws and Restoration Screws. The device can be used either in ratchet mode or torque wrench mode. In torque wrench mode preset values are 20-30-45-70 Ncm. Cleaning, disassembly and assembly operations are described in the Instructions for Use.



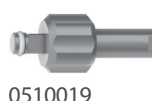
HEX BIT FOR RATCHET

Connected to the Ratchet, it is used for final tightening of Fastening Screws and Restoration Screws. Available in two different sizes.



HEX WRENCH CH 2.6

Screwing instrument for FAST 0° Bases and Ball Attachments; it is equipped with a finger section for manual use (first screwing) and a connection square to use in combination with the Torque Ratchet (final tightening).



FASTENING SCREWS

























All the Fastening Screws are made of grade 5 titanium and are provided in the packs of all the components with which they are used (with the exception of: Castable Spare Parts, Castable Multi Abutments and FAST Castable Temporary Abutments). They can also be purchased individually quoting the item codes detailed on the following page.

The screws for the Restoration Components must be tightened to 30 Ncm, except for the FAST Temporary Abutments which must be tightened to 20 Ncm.

The screws for the following items must be tightened with the Hex Screwdriver only:

- Temporary abutments in acetal resin.
- Castable Abutments.
- Rod Abutments.
- Castable Restoration Screw with Cap.
- Intraoral Scanmarker.
- Scanmarker.

FASTENING SCREWS

Restoration Range Components	Ø 3.3	Ø 3.6	Ø 4	Ø 4.5	Ø 5
STRAIGHT ABUTMENTS	 0810526	 0805001		 0805002	
ANGLED ABUTMENTS					
CASTABLE ABUTMENTS					
TEMPORARY ABUTMENTS					
MILLING ABUTMENTS					
OVERCASTABLE ABUTMENTS					
ROD ABUTMENTS	/	 0805650 ht 1.5 0805651 ht 3		 0805652 ht 1.5 0805653 ht 3	
TEMPORARY AESTHETIC ABUTMENTS	 0805660	 0805661		 0805662	
CONNECT BASES					
MULTI ABUTMENT					
SCANMARKER					
INTRAORAL SCANMARKER	 0807410	 0807411		 0807412	
PRECISION IMPRESSION TRANSFER	 0807213	 0807210F	 0807210V	 0807211G	 0807211B
TEAR-OFF IMPRESSION TRANSFER AND EASYCAP TRANSFER	 0807223	 0807220F	 0807220V	 0807221G	 0807221B
BASE FAST 17° - 30°	/	 0805906		/	/
FAST COMPONENTS: TEMPORARY ABUTMENTS, CASTABLES ABUTMENTS SCANMARKER AND INTRAORAL SCANMARKER	/	 0805935			
FAST TRANSFER	/	 0807301			



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