



**SOUTHERNIMPLANTS®**

Innovative Treatment Solutions

## **OSSEOINTEGRATED FIXTURES**

Product Catalogue





Southern Implants® is a leading provider of unique and innovative dental implant products with a focus on top-end professional users who want more choices. Southern's expertise in research, development and manufacturing of dental implants allows us to provide Innovative Treatment Solutions that will reduce treatment times and improve patient outcomes.

Striving for excellence and meeting customer needs, has led to our wide product range characterised by Unique and Innovative products which include:

- Multiple interfaces, to suit customer preference.
- INVERTA® implant, featuring a Body-Shift™ design, engineered for primary stability and suitable for immediate loading.
- Co-Axis®, Subcrestal Angle Correction® implants, available in angulations of 12°, 24° and 36° and various internal and external connections.
- MAX implant, specifically designed for immediate molar tooth replacement.
- The ZYGAN®, ZYGEX and ZYGIN implants for severely resorbed maxilla and craniofacial reconstruction.
- The Machined Surface Coronally (MSC) dental implant surface treatment offers practitioners an innovative way to take advantage of the best characteristics of both smooth and moderately rough implant surfaces.

Our product portfolio is in synchronised evolution with protocol improvements and technological advances.

My sincere thanks to all specialists, dentists and technicians who put their trust in our company.

  
**Graham Blackbeard**  
Managing Director, Southern Implants

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or visit

SOUTHERNIMPLANTS.COM

**NOTE:**

- images are for illustration purposes only and do not necessarily accurately represent the product.
- all dimensions in this catalogue are in mm, unless otherwise specified.
- not all products are cleared for sale in all countries.



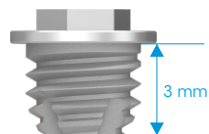
## EXTERNAL HEX

Ø3.75 mm

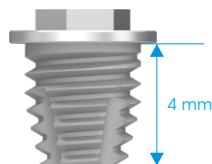
Ø4.5 mm

ULTRA-SHORT

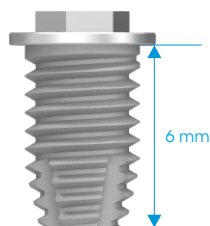
## Ø3.75 mm Implants (Parallel Walled)



**IE3**

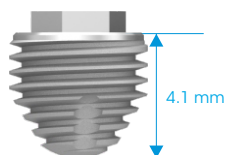


**IE4**

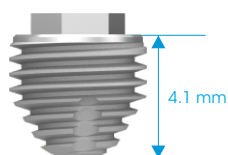


**IE6**

## Ø4.0 mm Implants (Tapered)



**IET4**



**IETi4**  
(Internal Drive)

Implants are available in lengths of:

**NOTE:** implant dimensions and information - page 14.

### Parallel Walled

ITEM CODE	IMPLANT LENGTHS (in mm)
IE3	3
IE4	4
IE5	5

### Tapered

ITEM CODE	IMPLANT LENGTHS (in mm)
IET4	4
IETi4	4 (Internal Drive)

## Surgical Components

### Cover Screw

**SC4**



### Healing Abutments

**TBE8N**

Ø4.5

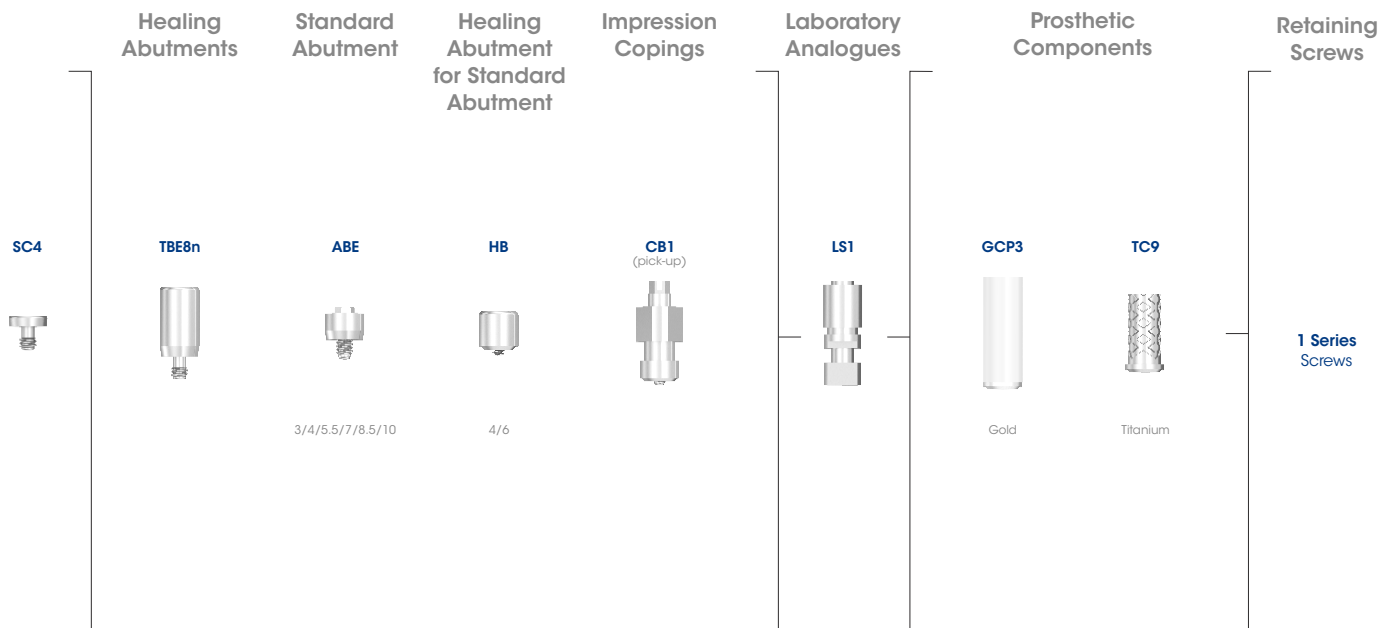


8  
length

(where x is length)

## Prosthetic Flowchart

Ø4.0mm Interface

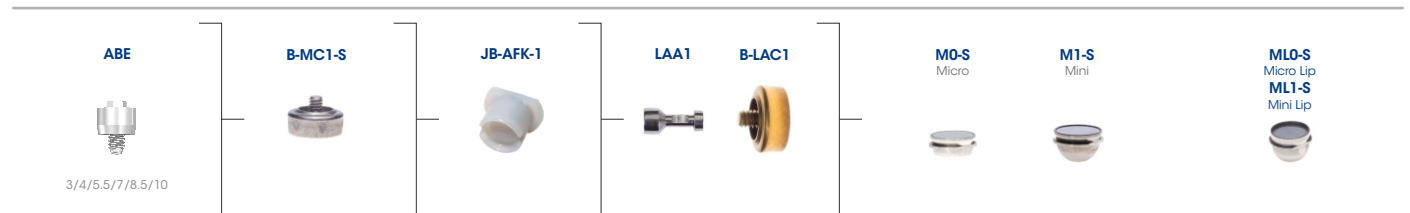


## Prosthetic Flowchart

## Magnetic Retention, Technovent System for IE System

Standard Abutment    Magnacap    Impression Magnet    Lab Analogue Abutment/Cap    Prosthesis Magnets

### Technovent Magnacap - Mini (Ø4.4 mm)



### Technovent Magnacap - Maxi (Ø5.1 mm)



### Technovent Magnacap - Auricular System



### Technovent Magnabutment - fits directly into IE Implant



**NOTE:** See page 08-09 for more information on Technovent prosthetics and instrumentation.

## Technovent Magnacap Magnetic Retention System

Technovents' Magna-Cap System is a titanium-based Magnetic Attachment System for maxillofacial prostheses based on closed-field magnetic attraction between small, split-pole prosthesis magnets and magnetisable implant fixtures.



← Closed-field magnet system - the magnet is in the prosthesis and not in the patient.



← Magnacap - fits directly into the implant abutment allowing ease of removal for MRI scans. Versatility of using the range of ABE abutment heights.

### Magnacap (fit directly into ABE abutment)



Code	Description	Height	Diameter
B-MC1-S	Mini Magnacap	2.1 mm	4.4 mm
B-MC2-S	Maxi Magnacap	2.1 mm	5.1 mm

### Magnabutment (fit directly into IE implant)



Code	Description	Height	Diameter
B-MA1-S	Mini Magnabutment	3.6 mm	4.4 mm
B-MA2-S	Maxi Magnabutment	3.6 mm	5.1 mm

## Auricular System

Technovents' innovative Auricular Magnet System retains all of the outstanding features of the original Magnacap System but has the following additional benefits giving it distinct advantages in comparison to conventional mechanical retention.

- Magnetic retention coupled with a mechanical safety lock which overcomes the problems of lateral displacement.
- Ease of positioning due to magnetic location.
- Reduced height (2.7mm) prosthesis magnet.
- Novel new Magnacap design ensures O-Ring safety lock engages closer to fitting surface of the magnet.
- In normal use, prosthesis is held in place solely by magnetic retention with mechanical retention only activated if needed.



#### Auricular Maxi Magnacap.

Must be used in conjunction with Auricular Magnet (MLL2-OR-S).

Code	Description	Height	Diameter
B-MC2-OR-S	Maxi Auricular Magnacap for ABE Abutments	2.7 mm	5.3 mm



#### Auricular Magnet.

Excellent magnetic strength coupled with a mechanical backup reduces lateral displacement. Use in conjunction with B-MC2-OR-S.

Code	Description	Height	Diameter
MLL2-OR-S	Auricular Magnet	5.4 mm	5.5 mm (fitting surface) 7.9 mm (external - widest)

# Technovent Magnacap Magnetic Retention System

## Prosthesis Magnets



### Non-Lipped Magnet

Code	Description	Height	Diameter	Breakaway Force
M0-S	Micro Magnet	1.99 mm	4.5 mm	4.2 N
M1-S	Mini Magnet	3.20 mm	4.5 mm	6.5 N
M2-S	Midi Magnet	3.20 mm	5.5 mm	10.5 N
M3-S	Maxi Magnet	3.90 mm	5.5 mm	11.5 N



### Lipped Magnet (provides controlled prosthesis stability)

Code	Description	Height	Diameter	Breakaway Force
ML0-S	Micro Lip Magnet	1.99 mm	4.5 mm	4.2 N
ML1-S	Mini Lip Magnet	3.20 mm	4.5 mm	6.5 N
ML2-S	Midi Lip Magnet	3.20 mm	5.5 mm	10.5 N
ML3-S	Maxi Lip Magnet	3.90 mm	5.5 mm	11.5 N



### Long Lip (provides extra prosthesis stability against external displacement forces)

Code	Description	Height	Diameter	Breakaway Force
MLL3-S	Maxi Long Lip Magnet	3.90 mm	5.5 mm	11.5 N



### Silicone Retentive (with retentive ring for mechanical retention to silicone)

Code	Description	Height	Diameter	Breakaway Force
ML3-SR	Maxi Lip SR Magnet	3.90 mm	5.5 mm	11.5 N
MLL3-SR	Maxi Long Lip SR Magnet	3.90 mm	5.5 mm	11.5 N



### Maxi O-Ring Magnet

Code	Description	Height	Diameter	Breakaway Force
MLL3-OR-S	Maxi O-Ring Magnet	7.20 mm	5.5-7.4 mm	11.5 N (13 N Retention)

## Accessories



### Impression Magnet (design ensures greater retention in silicone impression material)

Code	Description
JB-AFK-1	Mini Impression Magnet
JB-AFK-2	Maxi Impression Magnet
JB-AFK-OR	Auricular Impression Magnet



### Lab Analogue Abutment (replica for laboratory models)

Code	Description
LAA1	Mini Lab Analogue Abutment
LAA2	Maxi Lab Analogue Abutment



### Lab Analogue Cap (replica for laboratory models)

Code	Description
B-LAC1	Mini Lab Analogue Cap
B-LAC2	Maxi Lab Analogue Cap
B-LAC2-OR	Auricular Lab Analogue Cap

## Insertion Tools



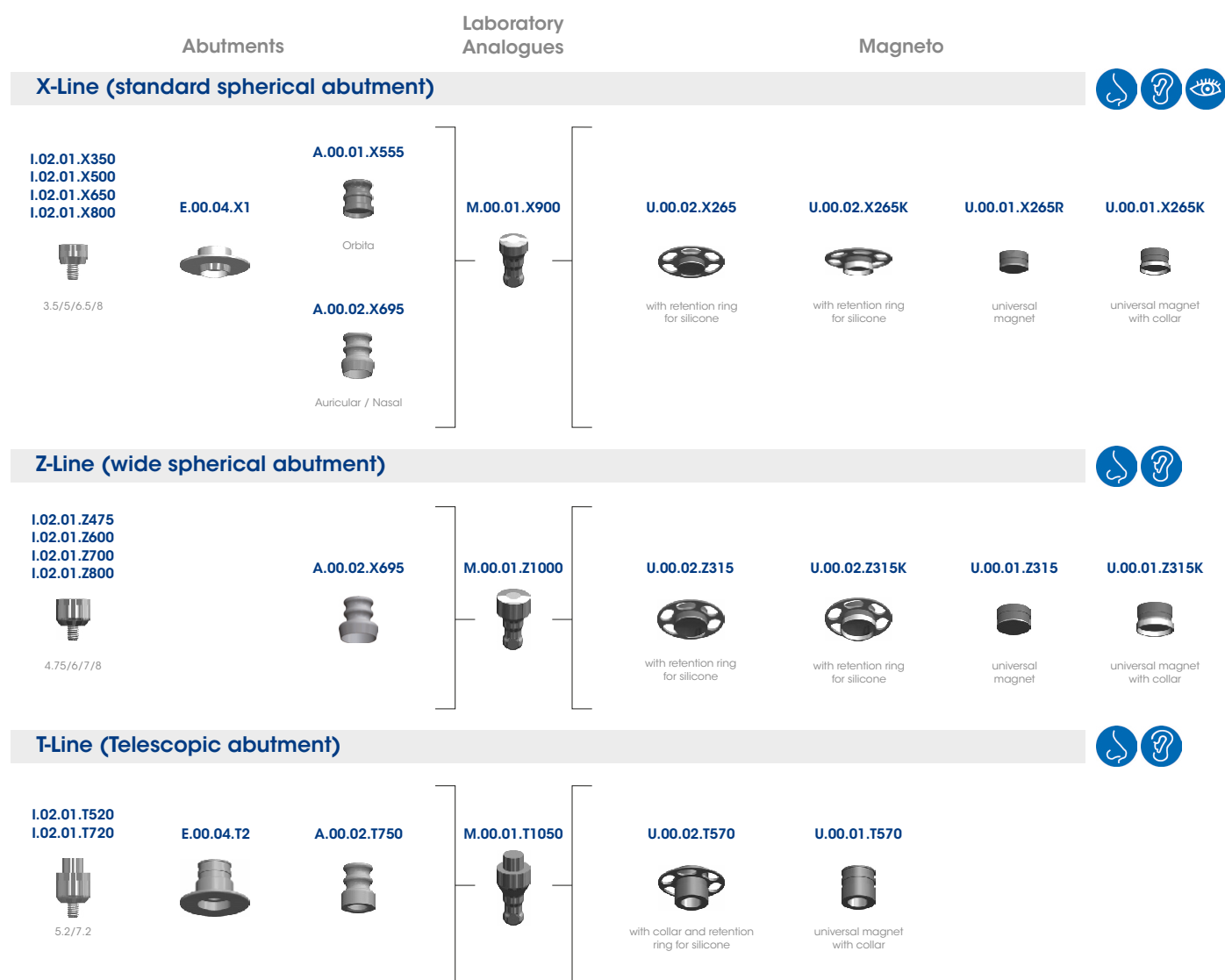
### Hand Capfit Tool

Code	Description
CF1	Mini Hand Capfit Tool
CF2	Maxi Hand Capfit Tool



### Latch Capfit Tool

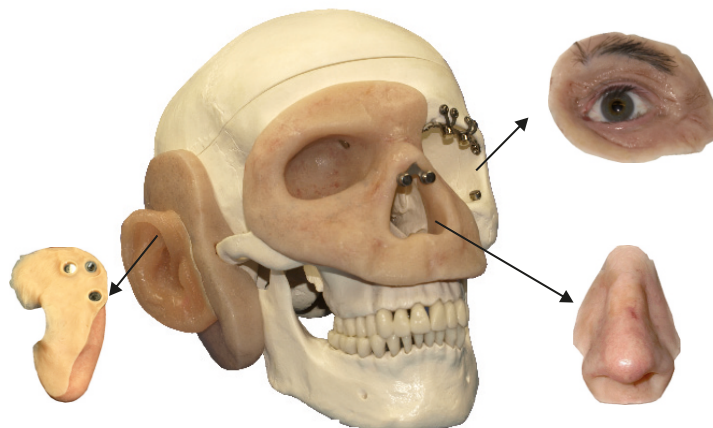
Code	Description
CF3	Mini Latch Capfit Tool
CF4	Maxi Latch Capfit Tool



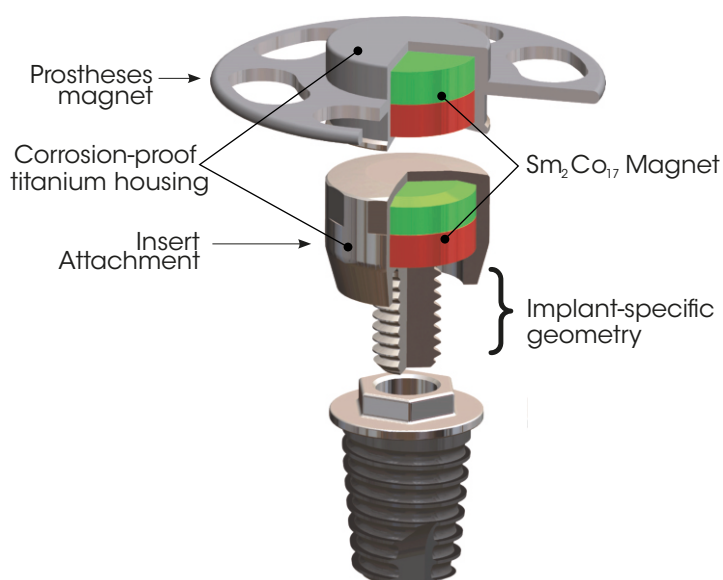
**NOTE:** See page 11 - 12 for more information on Steco Titanmagnetics® prosthetics and instrumentation.

## Magnetic attachments for facial prosthesis

The universal and easily manageable solution for implant-supported face prostheses and obturators.



## THE CONSTRUCTION PRINCIPLE

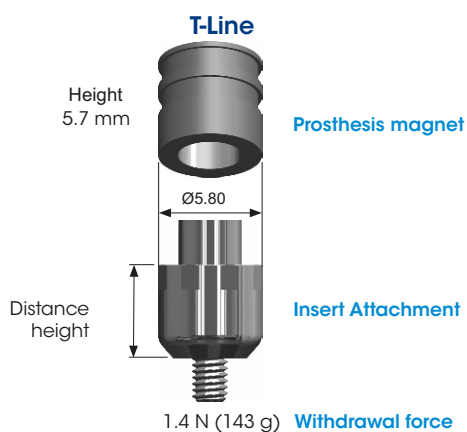


### Dual magnet system

Two open magnet fields exert a force of attraction over a longer distance than mono-magnet systems.

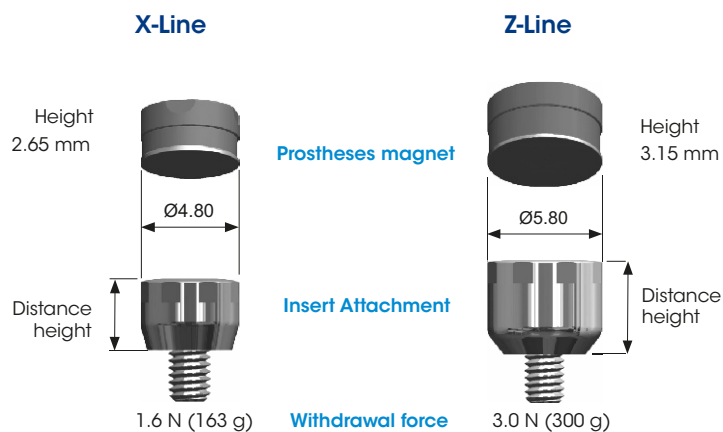
## Telescopic magnets

The StecoTitanmagnetics® **T-Line** was developed exclusively for extraoral use. The telescopic bearing of 2.5 mm gives the facial prosthesis secure fixation on the tissue. The design allows a certain amount of rotation and axial movement, without losing the withdrawal force.



## Spherical magnets

The slightly curved surface of the spherical StecoTitanmagnetics® **X-Line** and the **Z-Line** facilitates self centering and has the lowest lateral force introduction into the implant. X-Line and Z-Line are therefore particularly suitable for short implants. Due to the absence of lateral steering, they are also indicated for highly divergent implants.

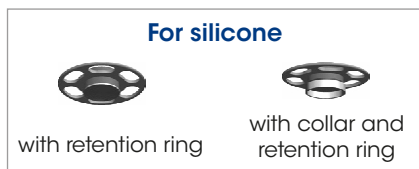


# STECO TITANMAGNETICS

## Prosthetic Components

In X-Line and Z-Line, there are prosthesis magnets for acrylic and with additional retention, for silicone. For more lateral support, there are prostheses magnets with extended collars available.

In the T-Line, there are prosthesis magnets for acrylic and with additional retention for silicone.



## Accessories

To make a new prostheses, each product line has its own compatible impression copings and laboratory analogues.

### Impression Copings

- magnetic impression without screws
- lock magnetically to the insert
- the external geometry ensures the impression material is securely fixed

### Laboratory Analogues

- for making models quickly and hygienically
- the original implant does not have to be used on the insertion point of an analogue
- there is no need for time-consuming cleaning
- a length of 16 mm is also available on request



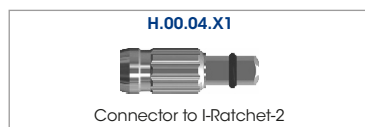
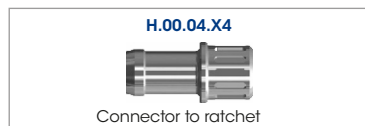
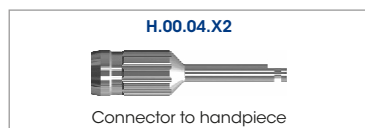
## Healing Flange

The Healing-Flange is placed on the insert to stabilize the bandage on fresh skin perforation tissue, after application of the insert. This minimizes excessive tissue proliferation. The Healing-Flange has its own magnet core and is made off tissue friendly Titanium.

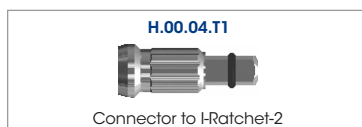
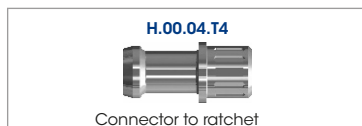


## Insertion standard tools

### X-Line



### Z-Line & T-Line



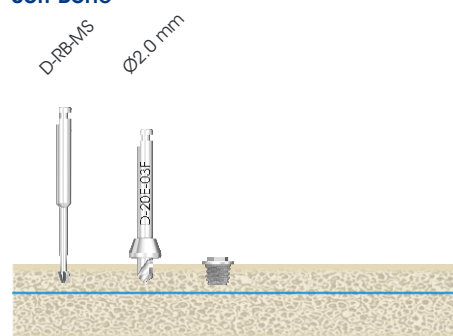


# Site Preparation Sequence

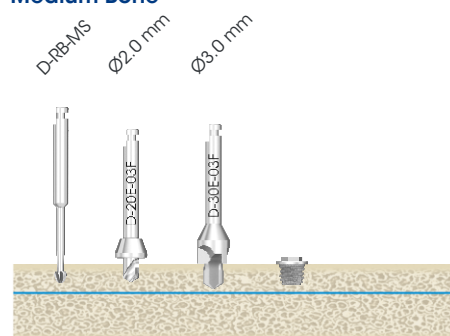
## Ø3.75 mm Parallel Walled (IE3)

3 mm length

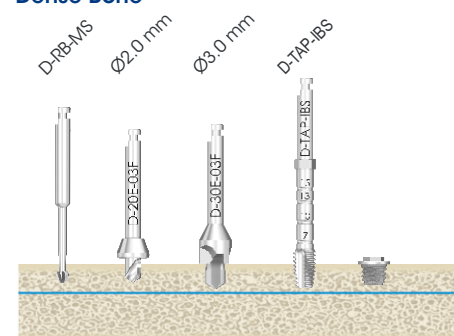
### Soft Bone



### Medium Bone



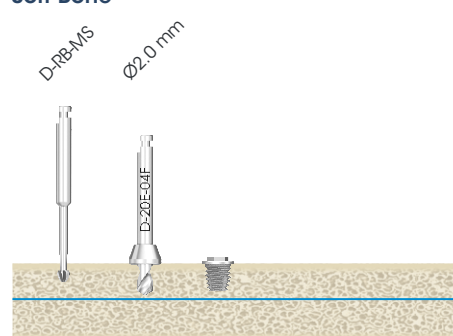
### Dense Bone



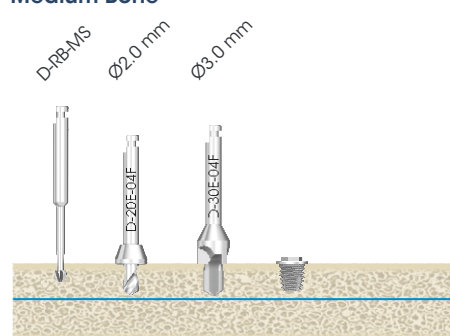
## Ø3.75 mm Parallel Walled (IE4)

4 mm length

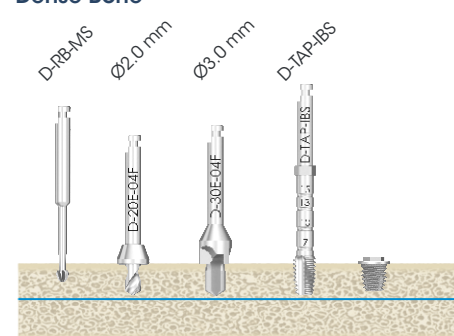
### Soft Bone



### Medium Bone



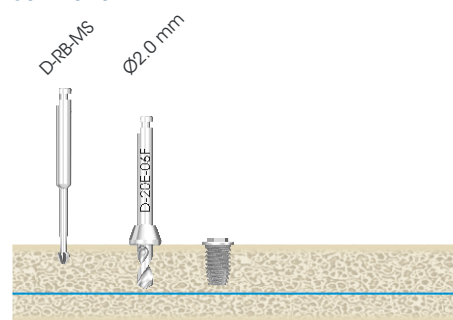
### Dense Bone



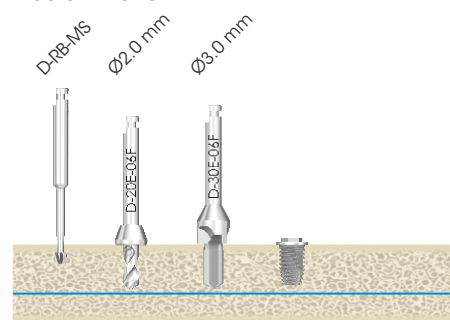
## Ø3.75 mm Parallel Walled (IE6)

6 mm length

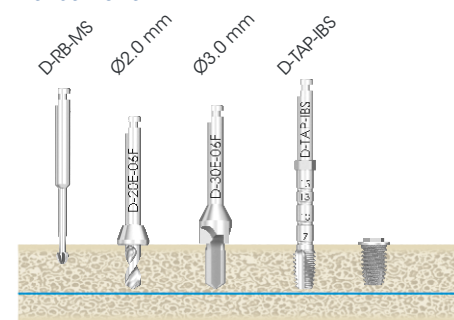
### Soft Bone



### Medium Bone



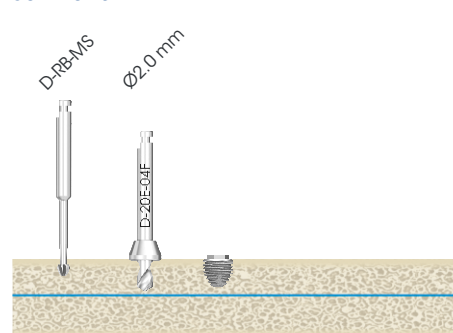
### Dense Bone



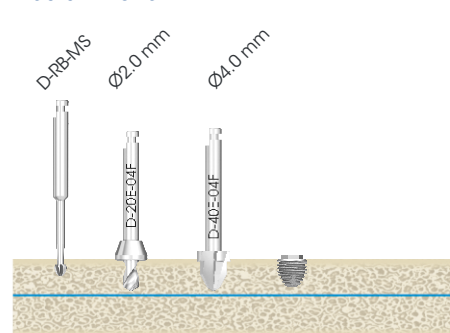
## Ø4.0 mm Tapered (IET4 / IETi4)

4 mm length

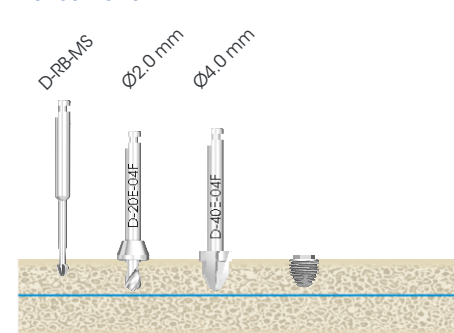
### Soft Bone



### Medium Bone



### Dense Bone



**NOTE:** the total implant length is reached when the flange of the 4 mm tapered drill touches the bone surface.

## INSTRUMENTATION

### Fixture Mounted Implants (Parallel Walled and Tapered)



IE3  
IE4  
IE6  
IET4

#### Insertion Tools

I-CON-X



Fixture Mount  
Driver  
(With W&H)

I-CONU-X



Fixture Mount  
Universal Driver  
(Without W&H)

#### Wrench Converters

I-WI-CST



For Handpiece inserts  
(Latch-type)  
featuring the W&H hex.

I-WI-SH



For HEX  
connection of  
fixture mounts.

### Internal Drive Implant (Tapered)

Ø4.5 mm Tapered (IETi4)



IETi4

(Internal Drive)

#### Insertion Tools

I-HID-S/M/L



Handpiece Insert  
with W&H

I-HIDU-S/M/L



Handpiece Insert  
Universal

I-WIID-S/L



Wrench Insert

#### Wrench Converters

I-WI-CST



For Handpiece inserts  
(Latch-type)  
featuring the  
W&H hex.

I-WI-SS



For SQUARE  
connection of  
fixture mounts  
and instruments.

\* Most instruments are available in various lengths

## Torque Table for Southern Screws

### 1 Series screws

### Laboratory screw

1.22 Hex



**TSH1**  
**GSH1**

**TORQUE:**  
10 - 15 Ncm  
**Head diameter**  
2.25 mm

1.22 Hex



**BSH1\***

**TORQUE:**  
Finger tighten  
**Head Diameter:**  
2.40 mm

### Screw head connections

### Screw product codes

Hex



Southern screws are manufactured from different materials.  
This is indicated with the first letter of the product code:

**T** = Titanium  
**G** = Gold  
**B** = Brass

#### NOTE:

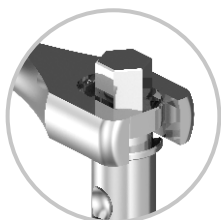
- due to design revisions screw tips may be flat or rounded.
- always ensure that the correct screw is used for the relevant implant and component.
- refer to CAT-8068 for alternative 1 Series screws.
- \* blackened and for laboratory use only.
- universal drivers are compatible with both 1.22 and 1.27 Hex screws:
  - I-HD22U-S/M/L
  - I-HHD-22U-S/M/L
  - I-WI-22U-S-/M/L

## Instruments for implants packaged with a fixture mount

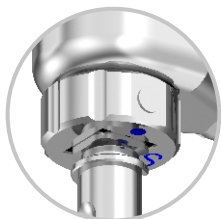
### Engaging the SQUARE

### Engaging the HEX

For securing the fixture mount while loosening the fixture mount screw.  
(I-XP-S)



For implant insertion with the torque wrench.  
(I-TWS and I-WI-SS)



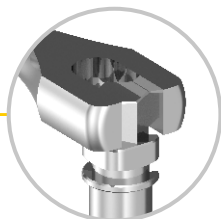
For implant insertion with the insertion tool.  
(I-ZYG-INS-1)



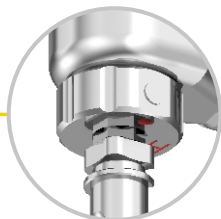
For implant insertion with the insertion tool.  
(I-CON-X)



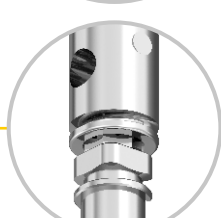
For securing the fixture mount while loosening the fixture mount screw.  
(I-XP-S)



For implant insertion with the torque wrench.  
(I-TWS and I-WI-SH)

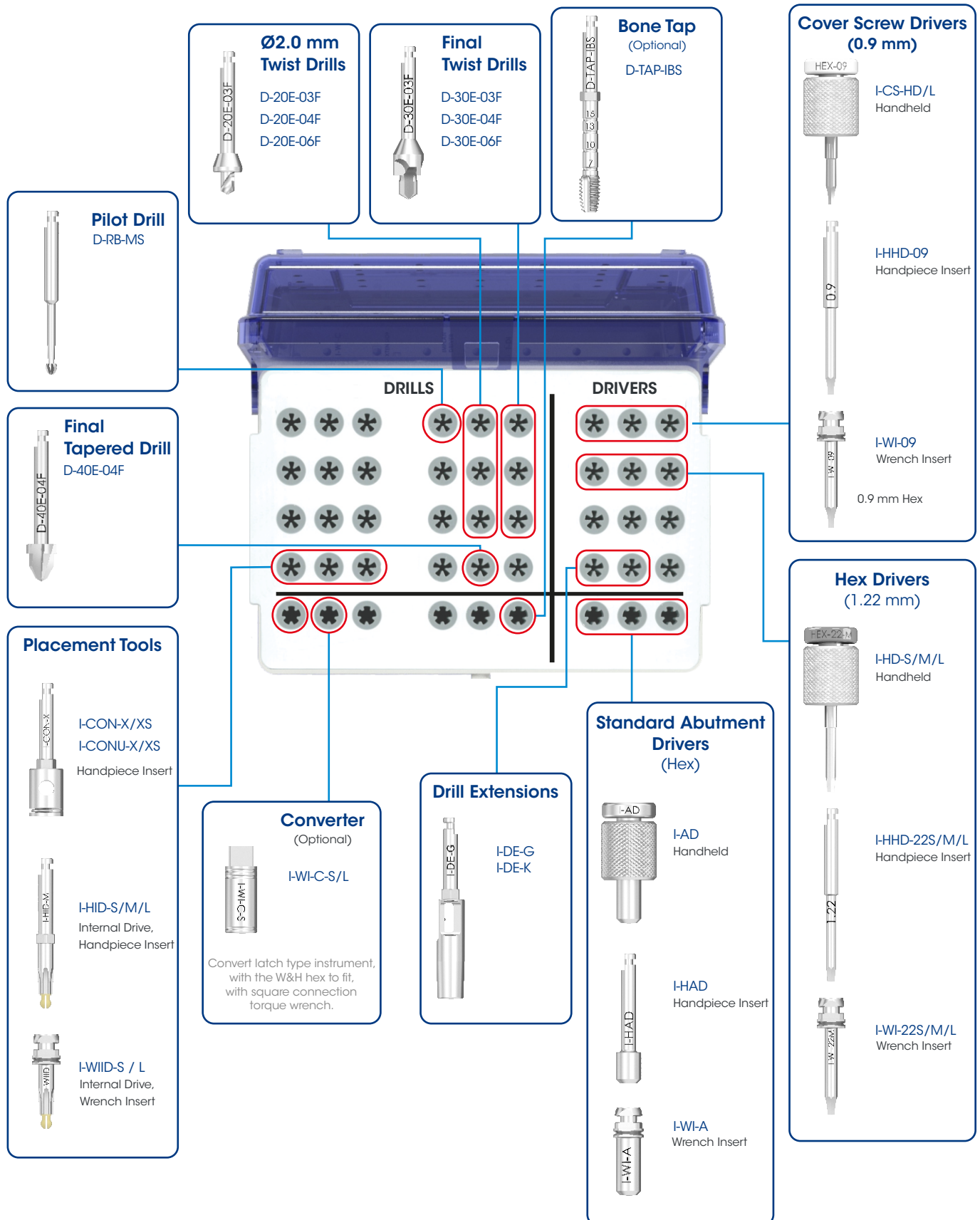


For implant insertion with the insertion tool.  
(I-ZYG-INS-2)

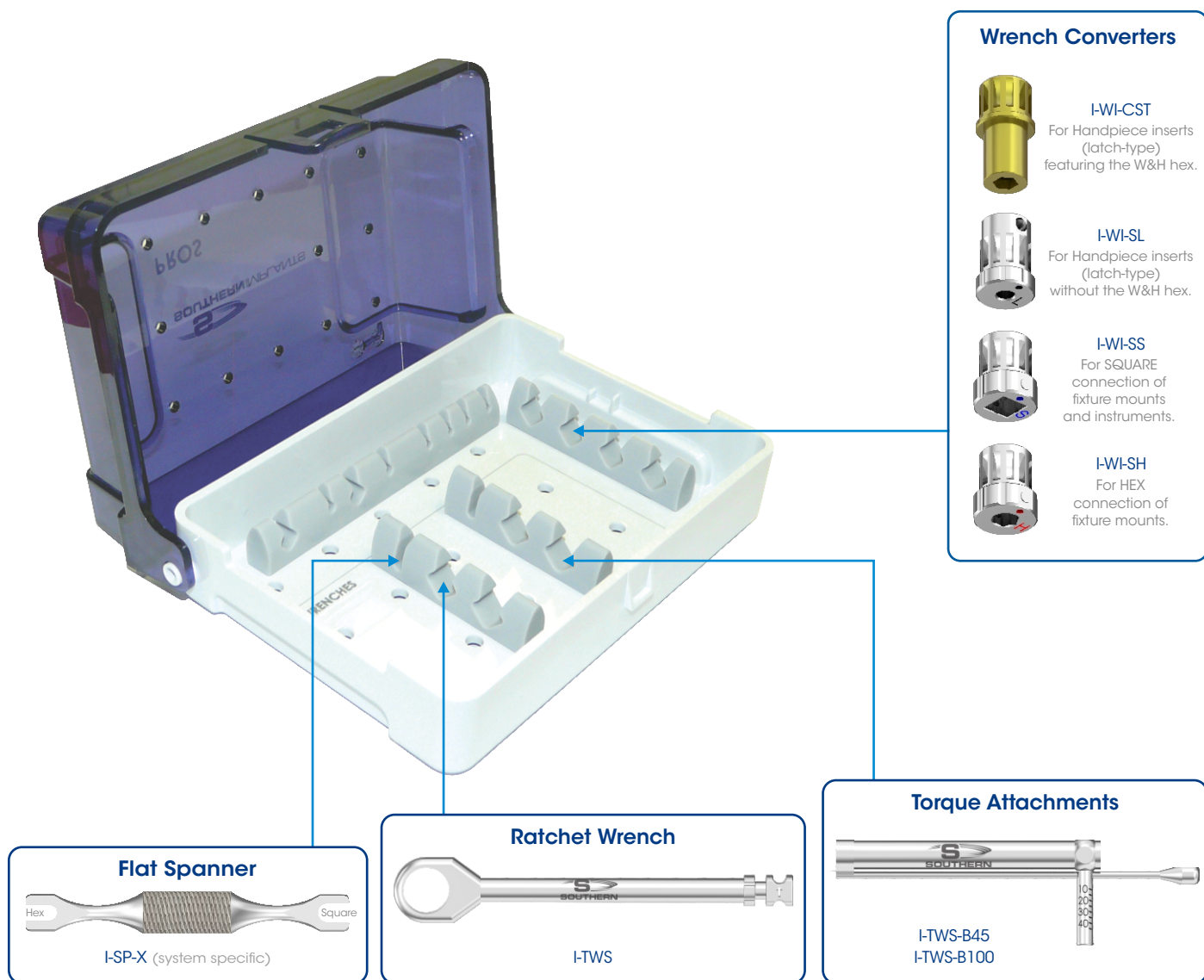


**NOTE:** for images of instruments illustrated here, refer to instrument tray pages (12 - 13).

TOP TRAY



## BOTTOM TRAY

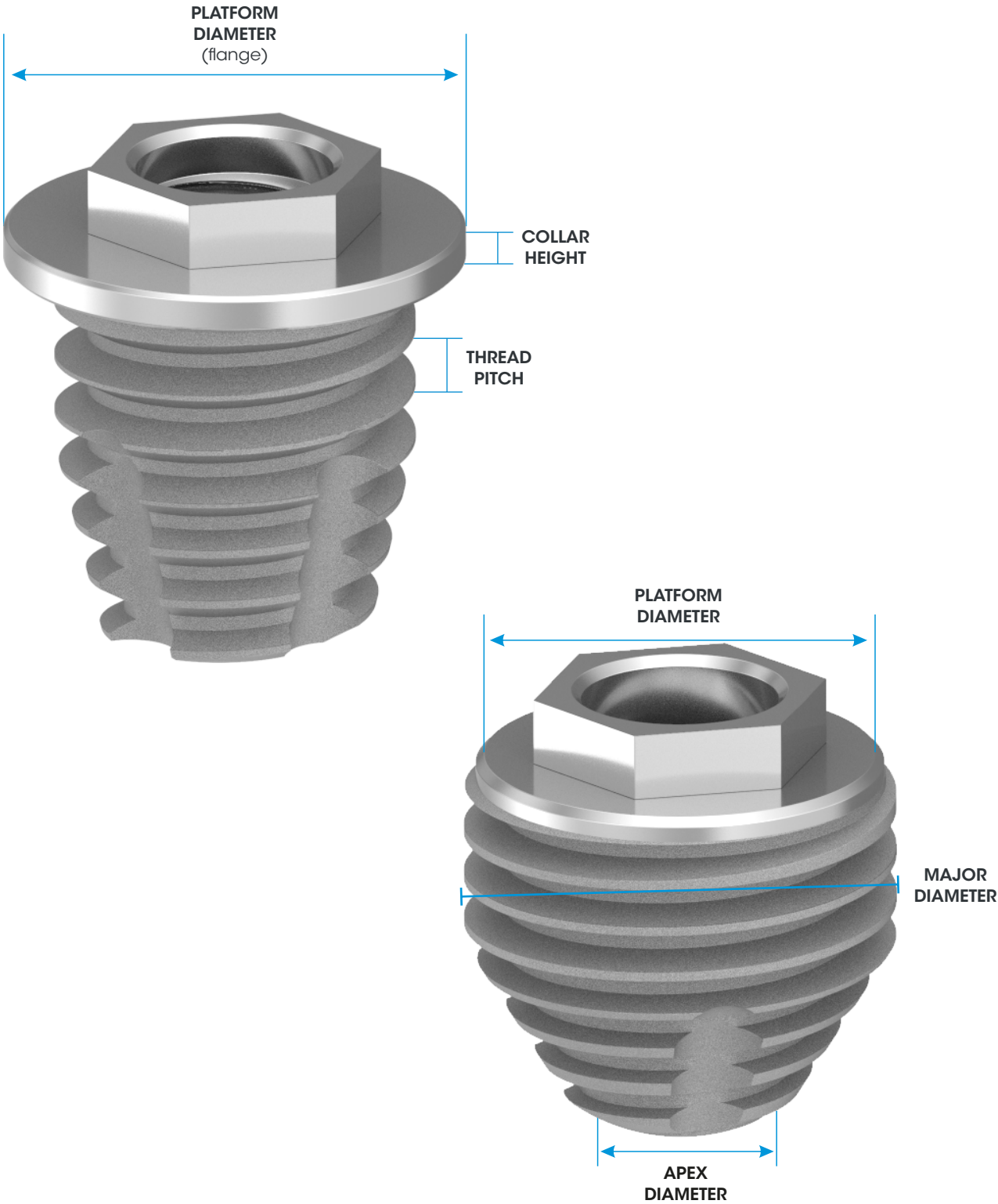


### NOTE:

- the surgical kit has an intuitive layout to guide the surgeon through the drill sequence.
- most instruments are available in various lengths.
- all instruments and tooling used during the procedure must be maintained in good condition, cleaned and sterilized prior to use. Please consult the Instructions for Use: Southern Implants instrument tray and reusable instruments (CAT-8003 and CAT-8070) for guidance concerning the maintenance of instruments and surgical trays. Please consult the corresponding drill Instructions for Use regarding care and maintenance of drills.
- refer to CAT-8021 for more information on bone mills and polishing protector caps.

IMPLANT DIMENSIONS AND INFORMATION




















RANGE		MAJOR DIAMETER	PLATFORM DIAMETER (flange)	Prosthetic Colour Code	HEX WIDTH	HEX HEIGHT	COLLAR HEIGHT	THREAD PITCH	APEX DIAMETER	CYLINDRICAL OR TAPERED	IMPLANT LENGTHS		
											3	4	6
IE	Ø3.75 mm	3.75	4.80	●	2.70	0.7	0.40	0.6	2.80	C	✓	✓	✓
IET	Ø4.5 mm	4.5	4.07	●	2.70	0.7	0.25	0.5	2.45	T		✓	
IETi	Ø4.5 mm	4.5	4.07	●	2.70	0.7	0.25	0.5	2.45	T		✓	

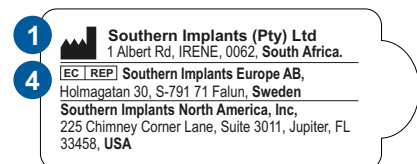
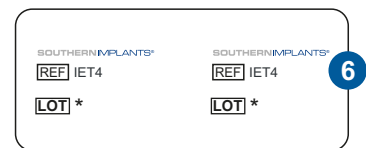
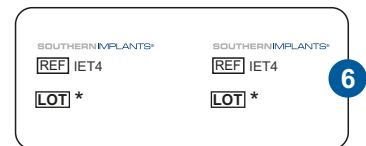
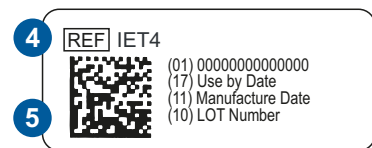
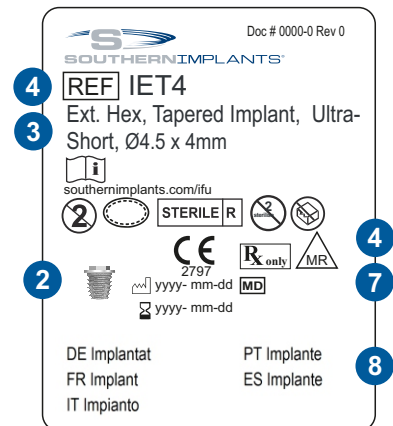




## EXPLANATION OF SYMBOLS

The following symbols are used on packaging labels and they indicate the following:

- 1  Manufacturer
- 2  Implant image
- 3  Implant details and size
- 5  Sterilisation using Irradiation
-  European representative
-  Catalogue number
-  Batch code
-  Do not resterilise
-  Consult instruction for use
-  Do not reuse
-  CE mark and notified body number
-  Use by date
-  Date of manufacture
-  Do not use if package is damaged
-  Identifies the product as a medical device
-  MR Conditional / Magnetic Resonance Conditional
-  Single sterile barrier system
-  Double sterile barrier
- 5 2D Bar coding  
Contains the GTIN, Use by date and LOT number
- 6 Patient sticker for documentation purposes  
(to be used by health care provider on patient file)
- 7  Prescription device  
**CAUTION:** FEDERAL LAW RESTRICTS THE DEVICE TO SALE BY OR ON THE ORDER OF A LICENCED HEALTH CARE PROVIDER.
- 8 Product description  
(translated as per international standards)



For more information on Instructions for Use of our products, please scan the below,



or visit our website  
[southernimplants.com/ifu](https://southernimplants.com/ifu)

## Platform Interface

 Ø4.0

For more information scan the below



to contact your Southern Implants Representative  
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