



INTERNAL HEX Implants 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 characterized 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®, sub-crestal angle correcting implant, available in angulations of 12, 24 & 36° and various internal and external connections.
- MAX implant, specifically designed for immediate molar tooth replacement.
- The ZYGAN and ZYGEX implants for severely resorbed maxilla and craniofacial reconstruction.

Our product portfolio is in synchronized 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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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.

INTERNAL HEX

Ø3.75mm / Ø4.2mm / Ø5.0mm



IM-T37



IM-T42



IM-T50

Implants are available in lengths of:

NOTE: Implant dimensions and information - page 22

ITEM CODE TAPERED	IMPLANT LENGTHS (in mm)
IM-T3708	8.0
IM-T3710	10.0
IM-T3711	11.5
IM-T3713	13.0
IM-T3715	15.0

ITEM CODE TAPERED	IMPLANT LENGTHS (in mm)
IM-T4208	8.0
IM-T4210	10.0
IM-T4211	11.5
IM-T4213	13.0
IM-T4215	15.0
IM-T4218	18.0

ITEM CODE TAPERED	IMPLANT LENGTHS (in mm)
IM-T5008	8.0
IM-T5010	10.0
IM-T5011	11.5
IM-T5013	13.0
IM-T5015	15.0

Surgical Components

Cover Screw

Healing Abutments

CS-M



HA-M-37

Ø3.7



3/4/6 lengths

HA-M-45

Ø4.5



3/4/6 lengths

HA-M-55

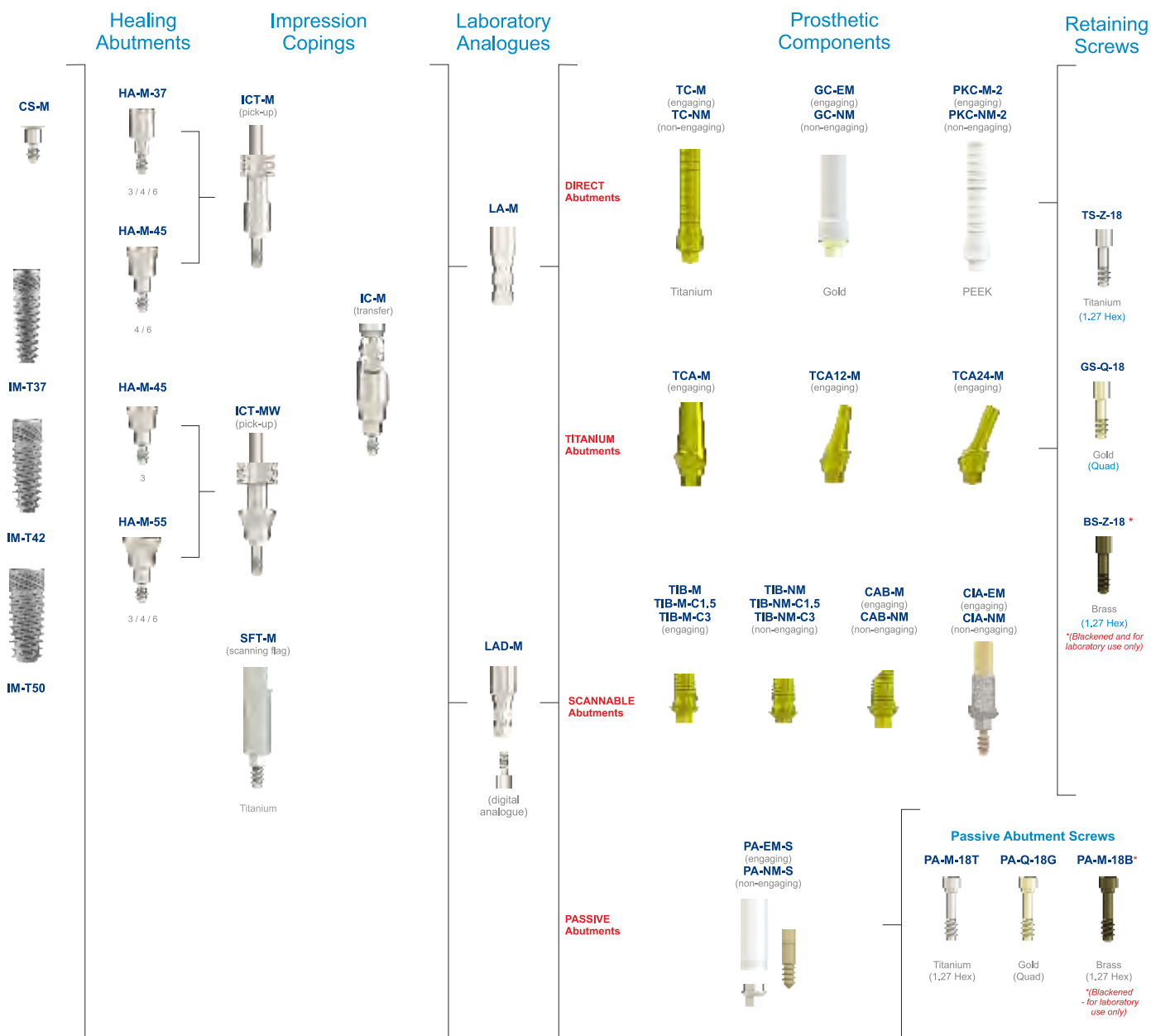
Ø5.5



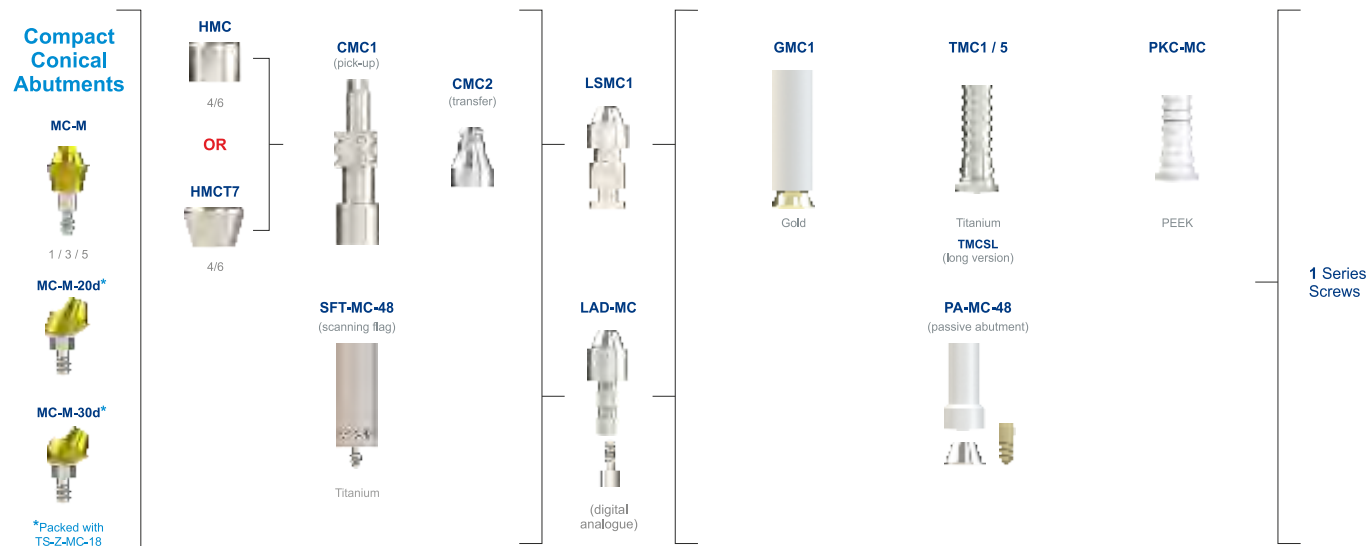
3/4/6 lengths

Prosthetic Flowchart

Direct



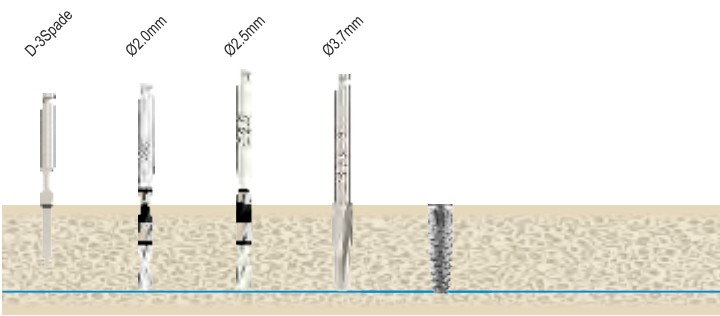
Indirect



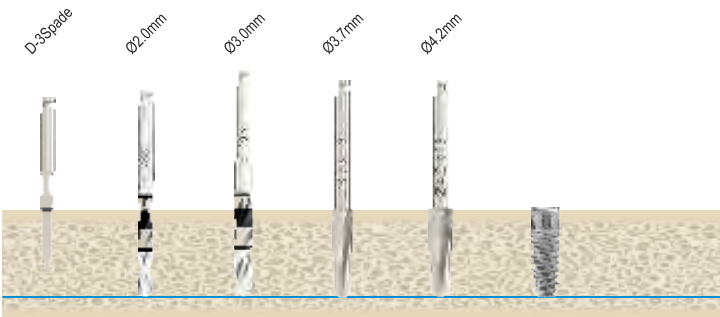
NOTE: Refer to CAT-1189 for Equator Overdenture options.

Site Preparation Sequence

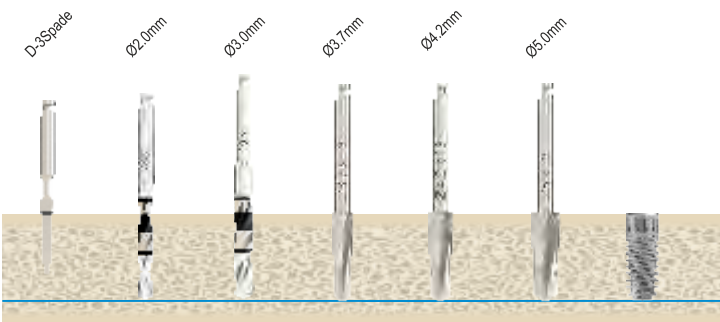
Ø3.7mm Tapered (IM-T37)



Ø4.2mm Tapered (IM-T42)




Ø5.0mm Tapered (IM-T50)



(All illustrations are for 13mm implants)

NOTE: • Site preparation sequence recommended by Southern Implants does not replace the judgement and experience of the surgeon.
• Refer to page 16 for the Fixture Mount Removal Protocol.

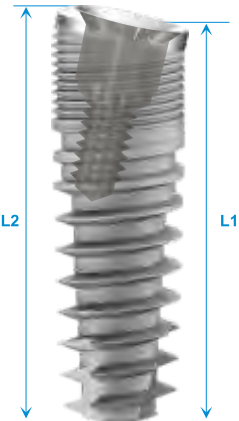
Instrumentation

	Placement Tool		Converters		Drivers	
	I-HM-S / M / L	I-WI-M-S / M / L	I-WI-CST	I-WI-SS	I-HD-22U-S/M/L	I-QDI-S/M/L
		 Wrench insert	 For Handpiece inserts (Latch-type) featuring the W&H hex	 For SQUARE connection of fixture mounts and instruments	 1.22 Universal Hex Driver	 Quad Driver

NOTE: • Refer to CAT-1155 for more information on wrench insert converters
• Most instruments are available in various lengths

INTERNAL HEX CO-AXIS®

Ø4.2mm






IM-T42-12d

Implants are pre-mounted and available in lengths of:

NOTE: Implant dimensions and information - page 22

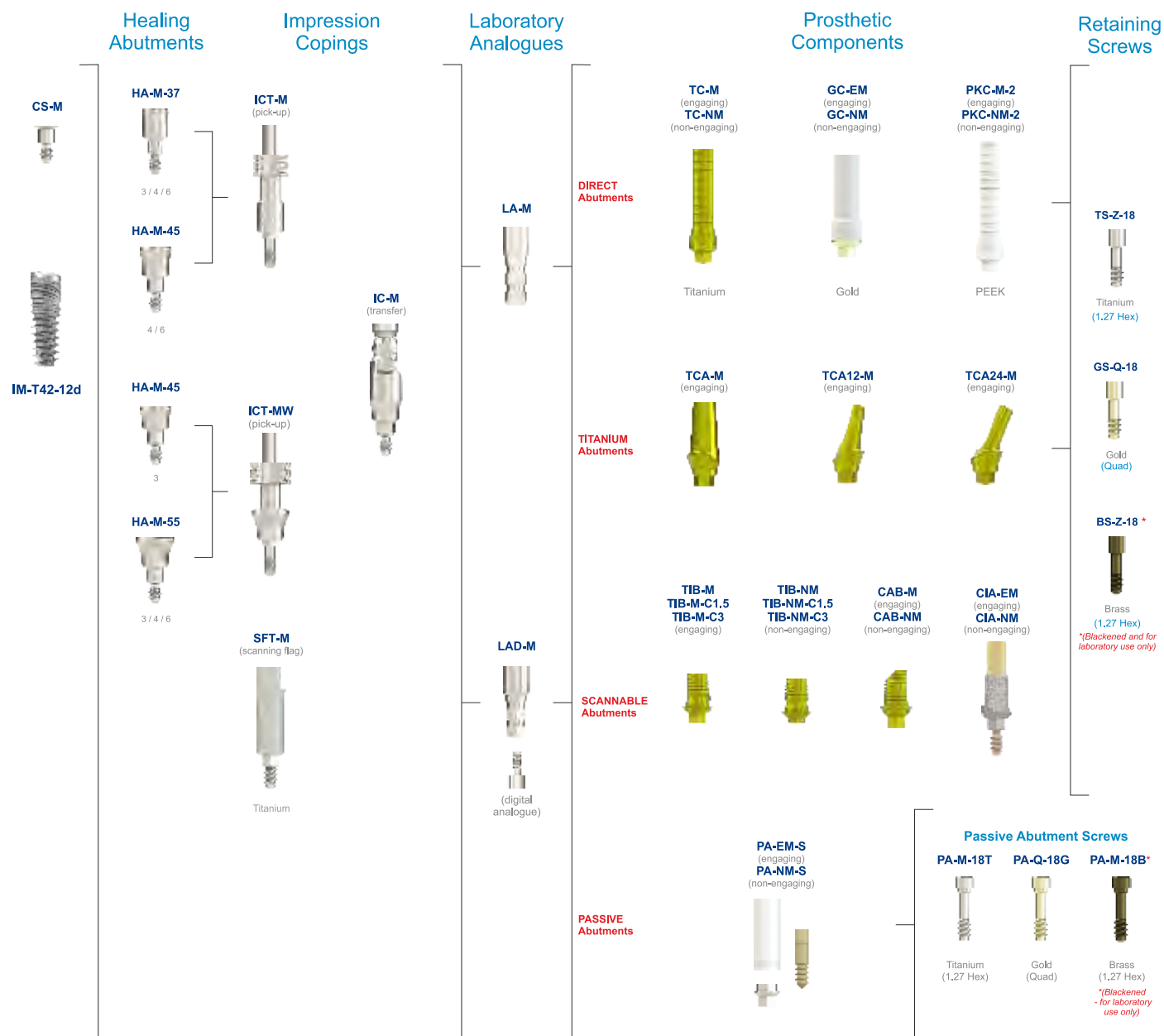
ITEM CODE	IMPLANT LENGTHS (in mm)	
	L1	L2
TAPERED		
IM-T4208-12d	8.0	8.3
IM-T4210-12d	10.0	10.3
IM-T4211-12d	11.5	12.3
IM-T4213-12d	13.0	13.3
IM-T4215-12d	15.0	15.3
IM-T4218-12d	18.0	18.3

Surgical Components

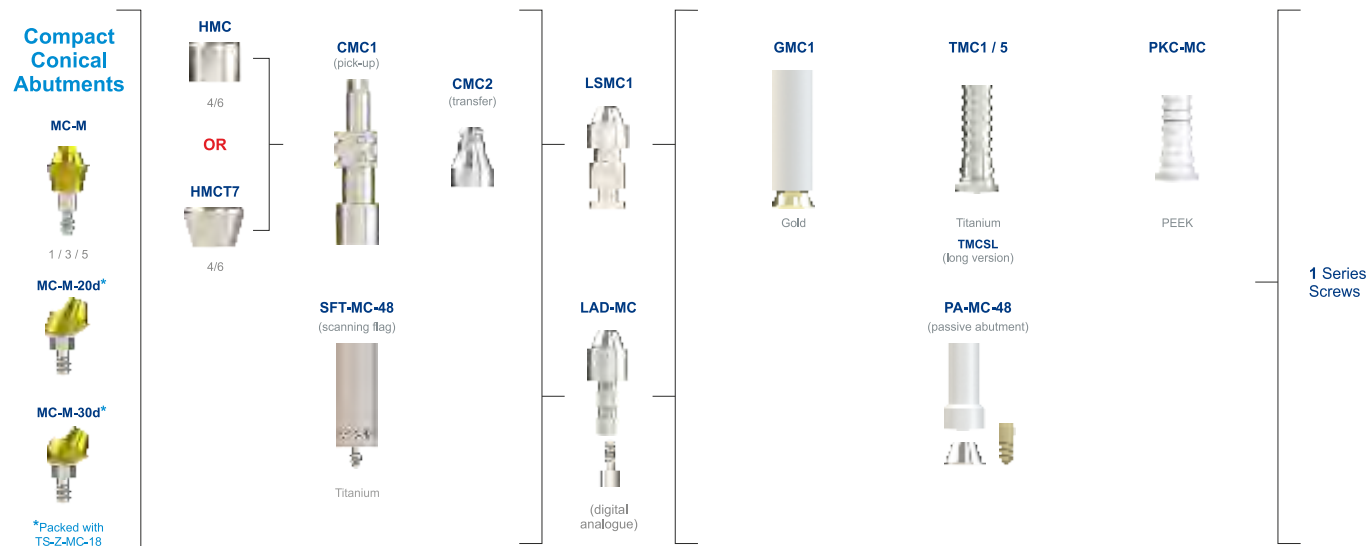
Cover Screw	Healing Abutments		
CS-M	HA-M-37	HA-M-45	HA-M-55
			
	3/4/6 lengths	3/4/6 lengths	3/4/6 lengths

Prosthetic Flowchart

Direct



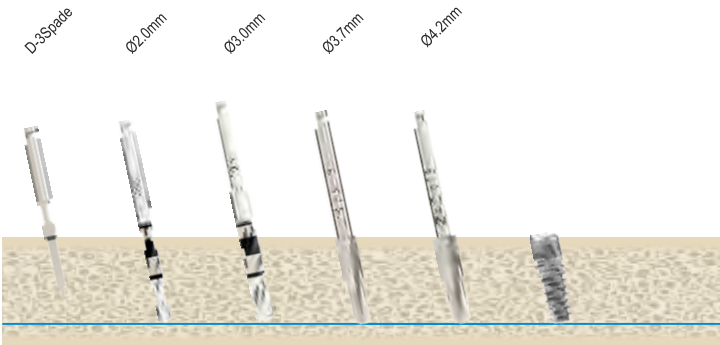
Indirect



NOTE: Refer to CAT-1189 for Equator Overdenture options.

Site Preparation Sequence

Ø4.2mm Tapered Co-Axis® (IM-T42-12d)



(illustration is for 13mm implants)

NOTE: • Site preparation sequence recommended by Southern Implants does not replace the judgement and experience of the surgeon.
• Refer to page 16 for the Fixture Mount Removal Protocol.

Instrumentation

	Placement Tool		Converters	
	I-HM-S / M / L	I-WI-M-S / M / L	I-WI-CST	I-WI-SS
		 Wrench insert	 For Handpiece inserts (Latch-type) featuring the W&H hex	 For SQUARE connection of fixture mounts and instruments
	Drivers		Final tapered drill position	
	I-HD-22U-S/M/L	I-QDI-S/M/L	<p>PLEASE NOTE:</p> <p>Point 1 This corner of the drill is to be at bone level.</p> <p>Point 2 This corner of the drill will be subcrestal.</p>	
	 1.22 Universal Hex Driver	 Quad Driver		

NOTE: • Refer to CAT-1155 for more information on wrench insert converters
• Most instruments are available in various lengths

PLATFORM MATCHED PROSTHETICS

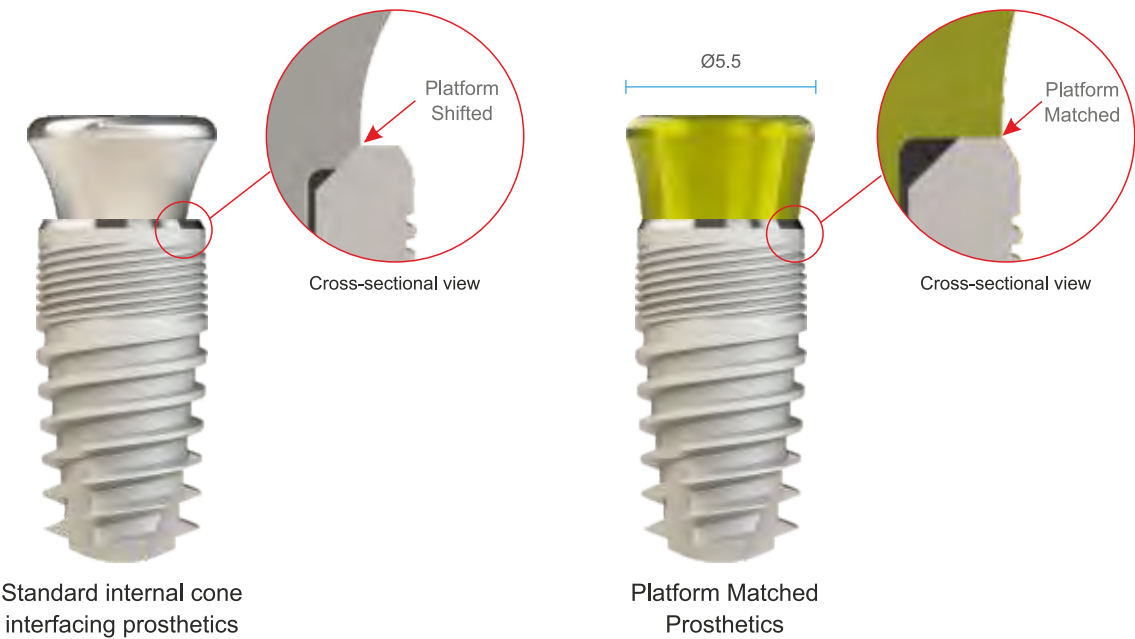
for Ø5mm implants

PLATFORM MATCHED PROSTHETICS for Ø5mm implants

In applications of the Internal Hex Ø5mm implants, for single posterior teeth, where the patient is known to have a very strong bite force, the clinician may choose to follow this “Platform Matched” approach. This approach uses the implant platform, in order to give the single tooth prosthetics greater stability.

Warning: These Platform Matched Prosthetics are not compatible with Internal Hex Ø3.7mm/ Ø4.2mm implants or Internal Hex Co-Axis™ Ø4.2mm implants.

 **Implants with Standard Interface**



Compatible with:

NOTE: Implant dimensions and information - page 22

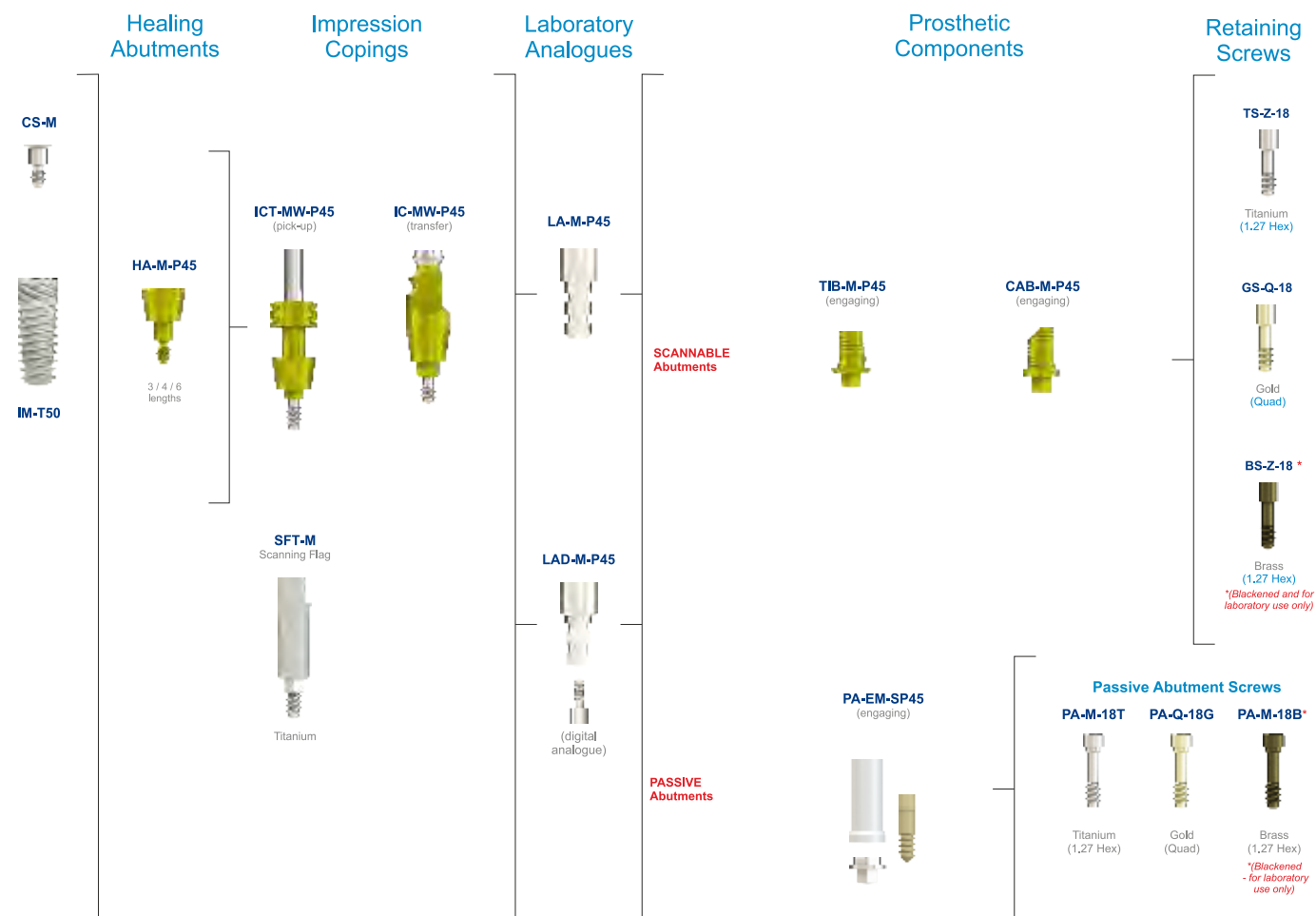
ITEM CODE TAPERED	IMPLANT LENGTHS (in mm)
IM-T5008	8.0
IM-T5010	10.0
IM-T5011	11.5
IM-T5013	13.0
IM-T5015	15.0

Surgical Components

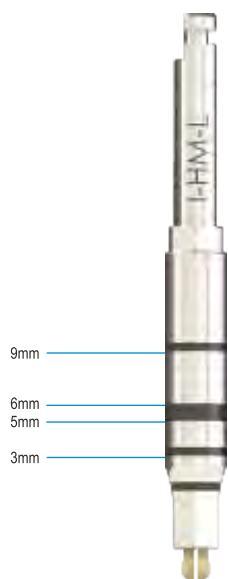
Cover Screw	Healing Abutments
<p>CS-M</p> 	<p>HA-M-P45</p> <p>Ø4.5</p>  <p>3/4/6 lengths</p>

Prosthetic Flowchart

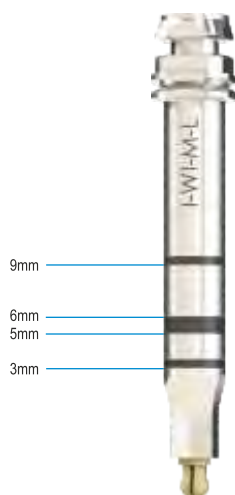
Direct



INSERTION TOOL DEPTH MARKINGS



I-HM-L used for illustration purposes

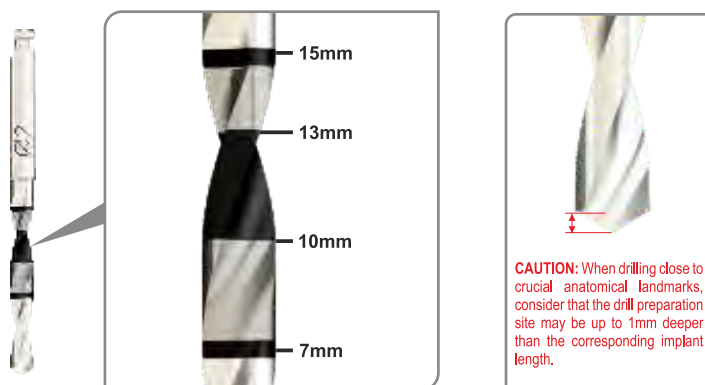


I-WI-M-L used for illustration purposes

- NOTE:
- Laser markings at 3mm, 5mm, 6mm and 9mm from implant platform.
 - Refer to CAT-1201 for Insertion Tool markings and depths.

Important: The PEEK bits (I-PBIT-L18) should be replaced on a regular basis. General wear & tear are to be expected with regular use. Items sold separately.

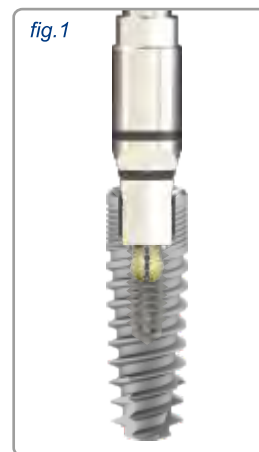
Twist Drill Markings



INSERTION TOOL PROTOCOL

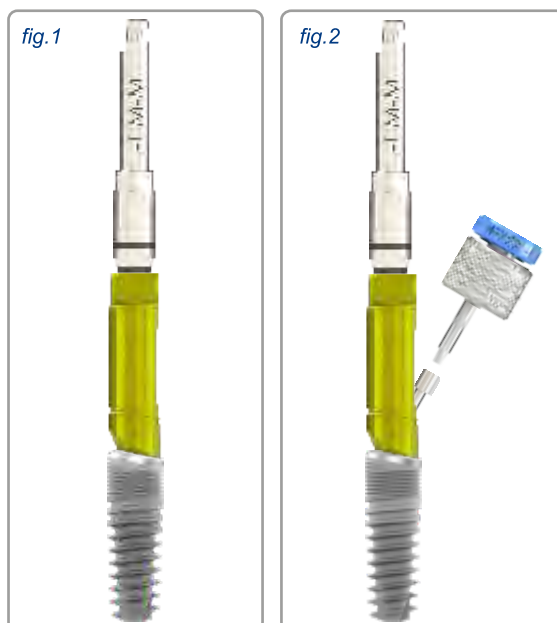
Implant Placement Procedure for Straight Internal Hex implants

1. The tool I-HM-S / M / L is used to pick up the implant from the packaging.
2. The hexagon of the insertion tool in the implant must be fully engaged before torque is applied, to prevent any damage [The hexagon is fully engaged when the straight portion of the hexagon tool is almost completely sunken in the implant (*fig. 1*)].
3. The implant is placed in the prepared site and screwed in with a motor unit at 15rpm while applying downwards pressure.









CO-AXIS™ FIXTURE MOUNT REMOVAL PROTOCOL

1. The tool I-HM-S / M / L is used to pick up the implant from the packaging (*fig 1*) using the fixture mount.
2. Once the implant is placed, the position verified, and after final X-rays have been taken, remove the fixture mount by unscrewing the fixture mount screw using a I-HD-22U-S / M / L handheld driver (*fig 2*).



Drivers

HANDHELD		HANDPIECE		WRENCH	
UNIVERSAL 1.22/1.27	QUAD	UNIVERSAL 1.22/1.27	QUAD	UNIVERSAL 1.22/1.27	QUAD
					
I-HD-22U-S/M/L	I-QDI-S/M/L	I-HHD-22U-S/M/L	I-HQD-S/M/L	I-WI-22U-S/M/L	I-WI-QS/M/L

Abutment Drivers (for Compact Conical Abutments)

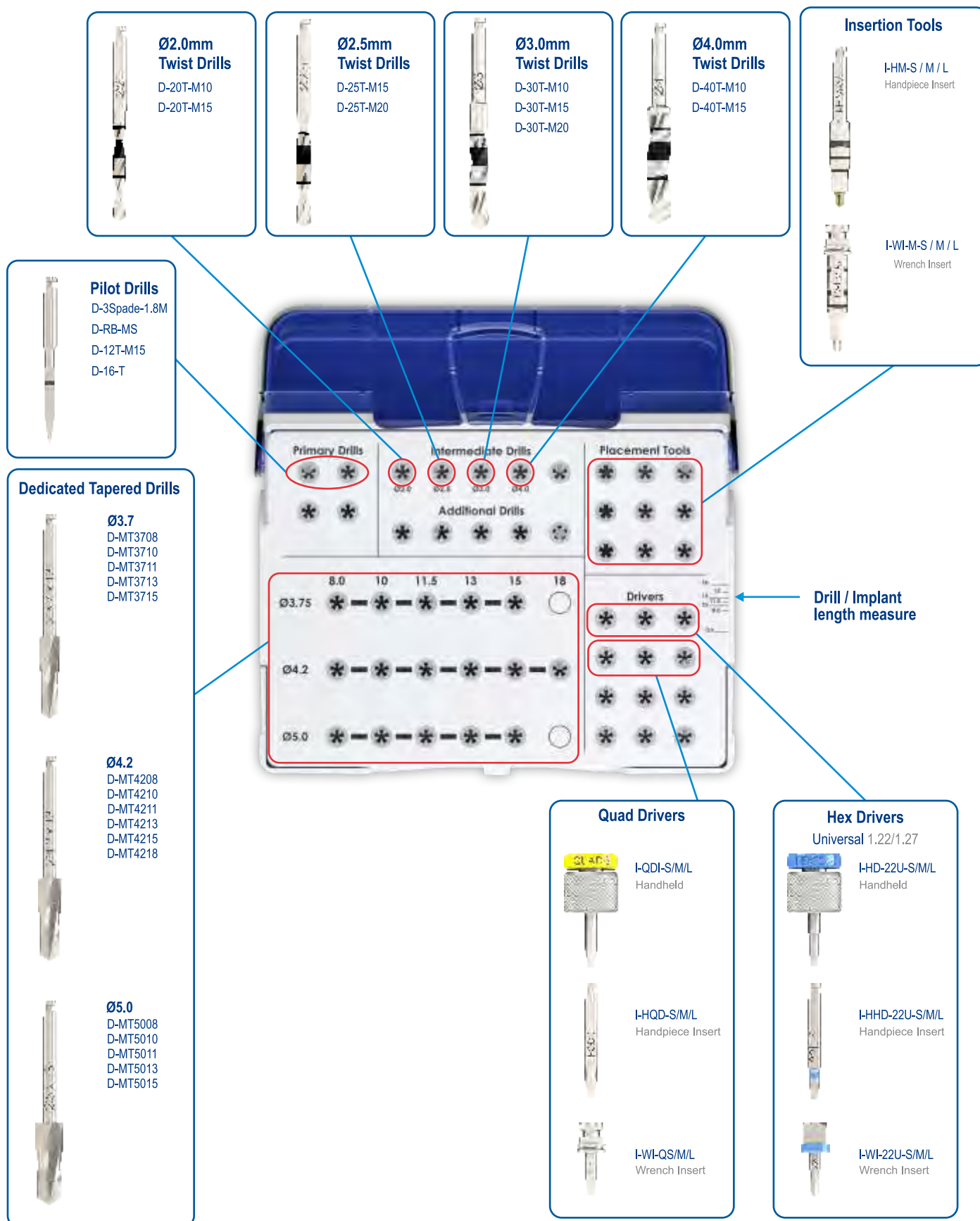
HANDHELD	HANDPIECE	WRENCH
		
I-AD	I-HAD	I-WI-A

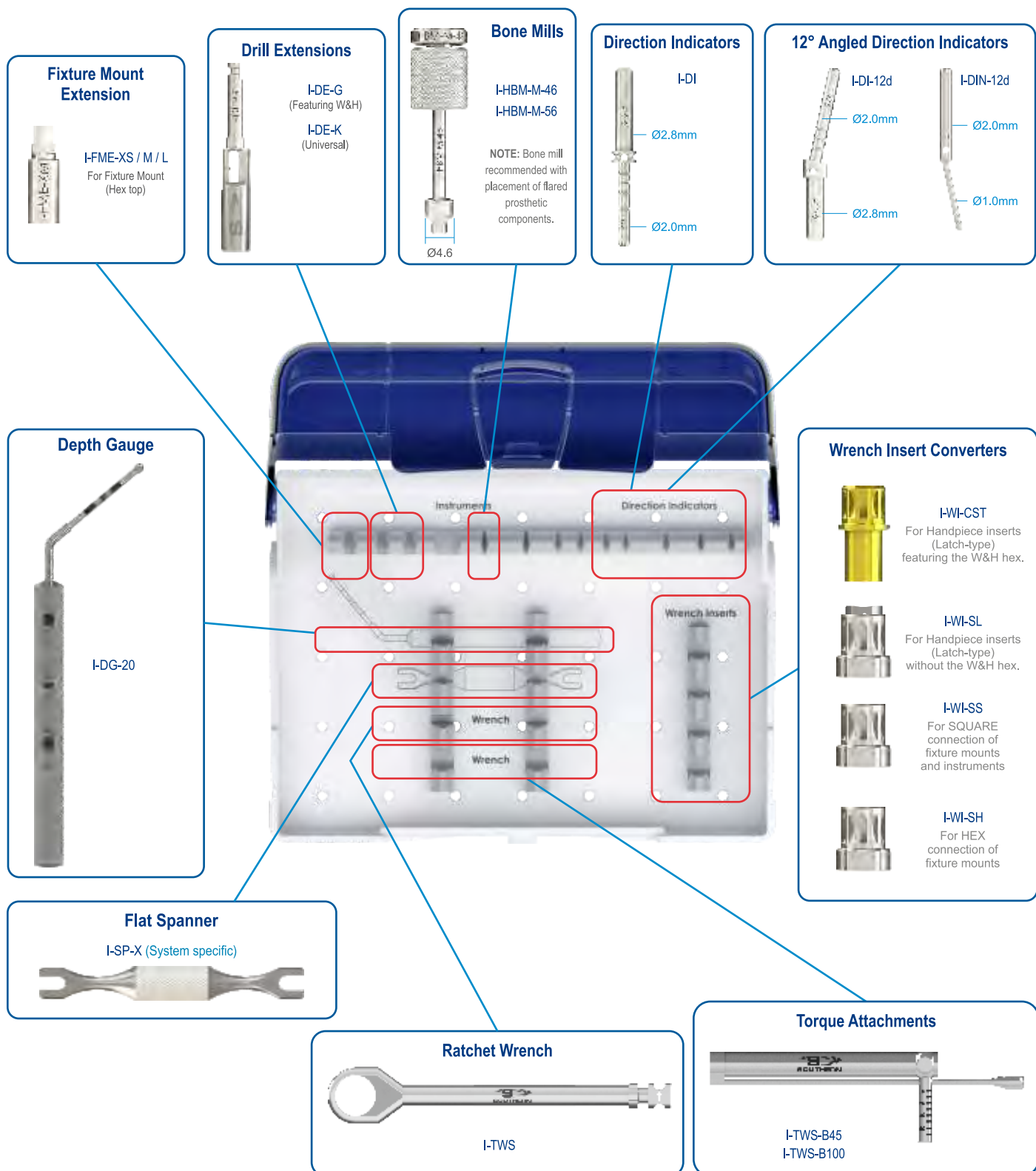
Driver Information for 1 Series Screws

UNIVERSAL 1.22/1.27	<p>HANDHELD</p>  <p>I-HD-22U-S/M/L</p>	<p>HANDPIECE</p>  <p>I-HHD-22U-S/M/L</p>	<p>WRENCH</p>  <p>I-WI-22U-S/M/L</p>
	<p>UNIGRIP</p>  <p>I-UGI-S/M/L</p>	 <p>I-HUG-S/M/L</p>	 <p>I-WI-UG-S/M/L</p>

Refer to CAT-1203 for alternative Drivers

I-INT-HEX-EG for surgical placement of Internal Hex Implants

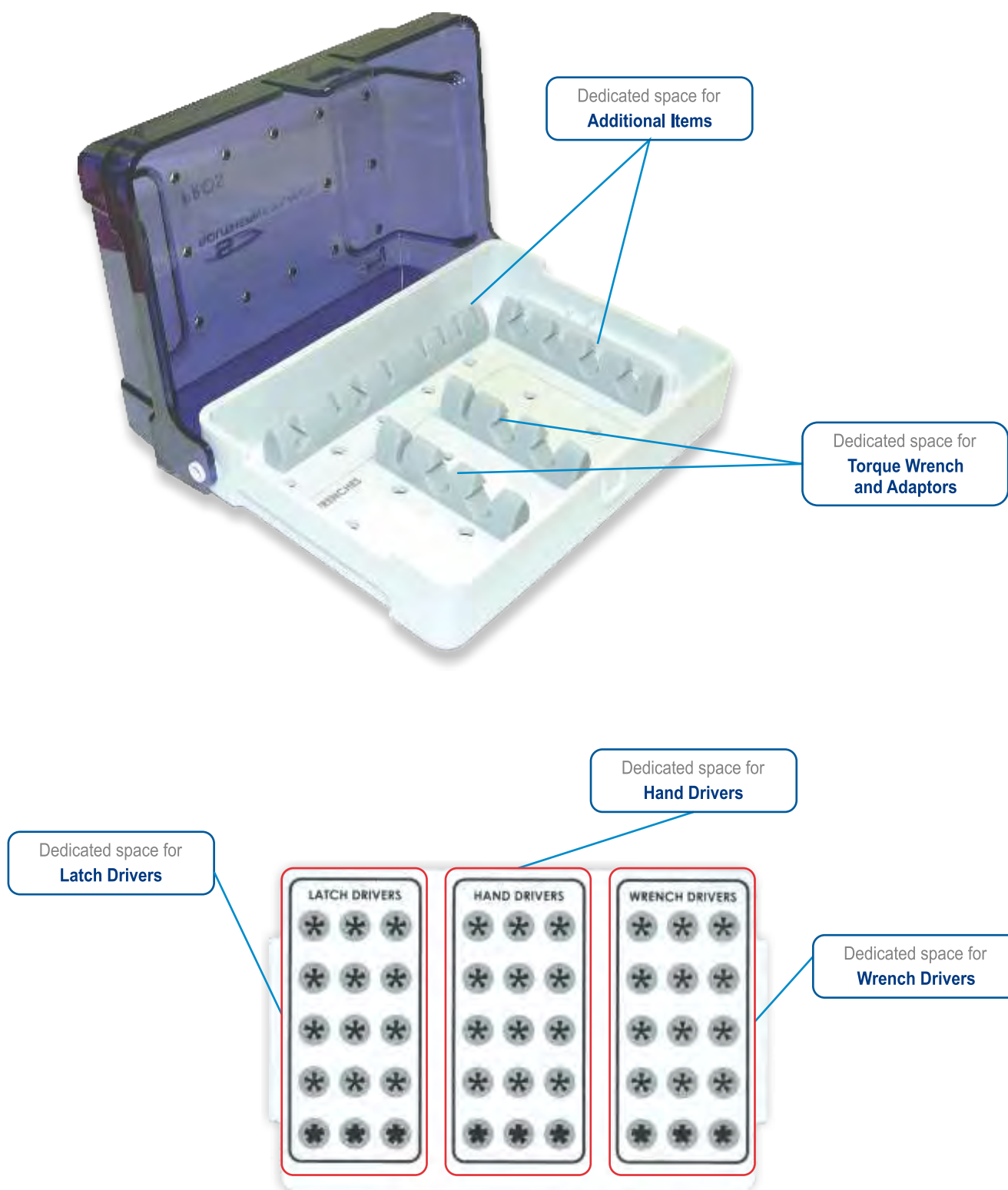




NOTE:

- The surgical kit has an intuitive layout to guide the surgeon through the drill sequence.
- Most Instruments available in various lengths.
- All instruments and tooling used during the procedure must be maintained in good condition, and cleaned and sterilized prior to use. Please consult the Southern Implants Cleaning and Sterilization Procedure Guidelines (CAT-1039) for guidance concerning the maintenance of drills, instruments, and surgical trays.

I-PROS-EG Prosthetic Instrument Tray



NOTE:

- This instrument tray is to be **customised by the user** to be suitable for use with the preferred implant system and its surgical or prosthetic items.
- Most Instruments available in various lengths.

TORQUE TABLE FOR SOUTHERN SCREWS

1.27 Hex Prosthetic screws

Quad Prosthetic screws



TS-Z-18



BS-Z-18*



GS-Q-18

TORQUE:
32Ncm
Head Diameter:
2.25mm
Screw TORQUE with
PEEK Prosthetics:
15Ncm

1.27 Hex Passive Abutment screws

Quad Passive Abutment screws



PA-M-18T



PA-M-18G



PA-M-18B*



PA-Q-18G

TORQUE:
32Ncm
Head Diameter:
2.60mm

Digital Laboratory Analogue screw

TIB Abutment screw

1.22 Hex



LAD-S

TORQUE:
Finger tighten
Head Diameter:
2.40mm

1.22 Hex



TS-IT-TIB

TORQUE:
32-40Ncm
Head Diameter:
2.40mm

NOTE: Screw supplied with all Digital Analogues

1 Series screws

M1.4

1.22 Hex



TSH1



GSH1



BSH1*

Unigrip



TSU1



GSU1

TORQUE:
10-15Ncm
Head
Diameter:
2.25mm
Screw TORQUE with
PEEK Prosthetics:
10 - 15Ncm

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.
- * Blackened and for laboratory use only.

Screw Head Connections

Hex



Quad

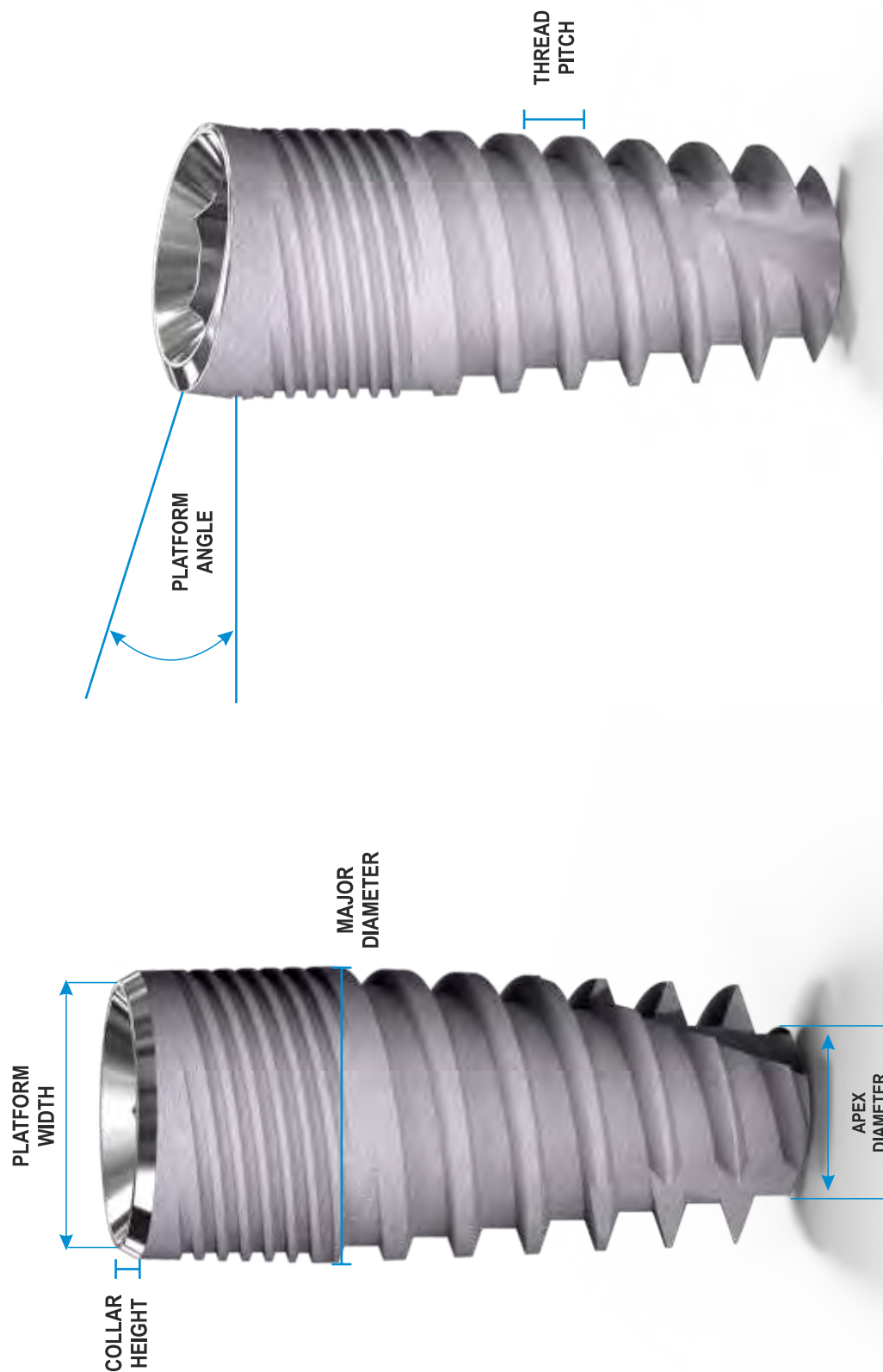


Unigrip



RANGE		IMPLANT LENGTH CODES									
	MAJOR DIAMETER	IMPLANT PLATFORM DIAMETER	PROSTHETIC DIAMETER	Prosthetics	HEX WIDTH (across flats)	SMOOTH COLLAR HEIGHT	THREAD PITCH	APEX DIAMETER	Cylindrical or Tapered C/T	PLATFORM ANGLE	
IM-T37	Ø3.75mm	3.75	3.6	●	2.44	0.30	1.0	3.1	T		8
IM-T42	Ø4.2mm	3.75	3.6	●	2.44	0.27	1.0	3.7	T		10
IM-T50	Ø5.0mm	4.55	3.6 / 4.5	●	2.44	0.27	1.0	4.5	T		13
IM-T42-12D	Ø4.2mm	3.75	3.6	●	2.44	0.15	1.0	3.7	T	12°	15
											18












All dimensions in this catalogue are in mm, unless otherwise specified.

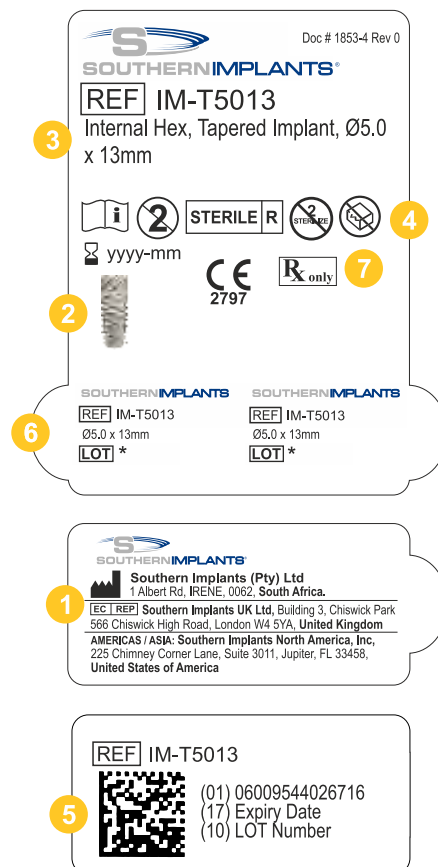


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EXPLANATION OF SYMBOLS

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

- 1  **Manufacturer**
- 2  **Implant image**
- 3  **Implant details and size**
- 4  **Sterilization using Irradiation**
 -  **Do not Resterilize**
 -  **Consult instruction for use**
 -  **Do not reuse**
 -  **CE mark and notified body number**
 -  **Expiry date**
 -  **Sterile unless package is opened or damaged**
- 5 **2D Bar coding**
Contains the GTIN, Expiry 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.

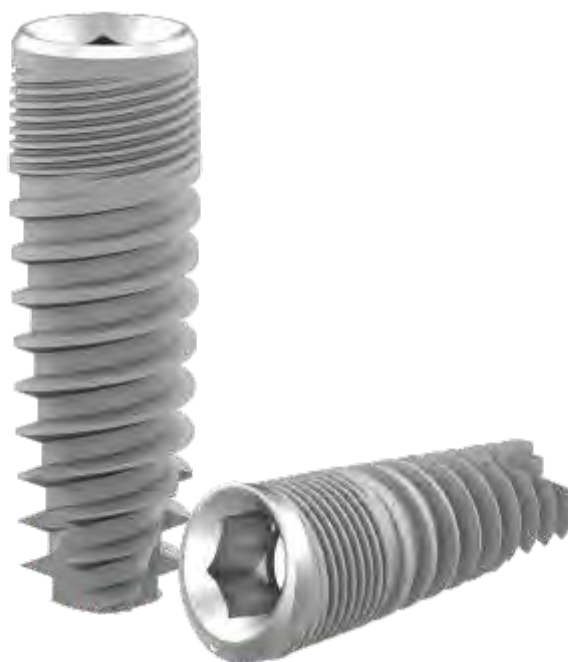


Platform Interface

 **Ø3.75**

 **Ø4.2**

 **Ø5.0**



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