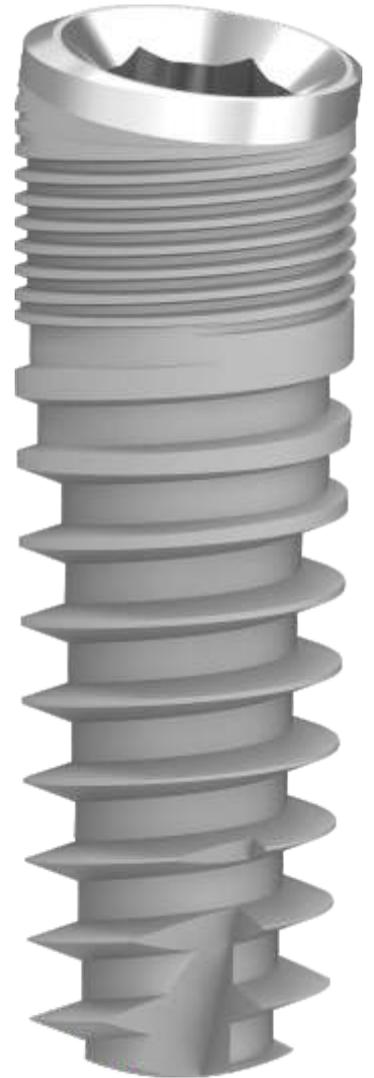




SOUTHERNIMPLANTS®

Innovative Treatment Solutions

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 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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| CO-AXIS® | |
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For more information scan the below



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.

INTERNAL HEX

Ø3.75 mm

Ø4.2 mm

Ø5.0 mm

Ø3.75 mm / Ø4.2 mm / Ø5.0 mm Implants (Tapered)



IM-T37xx



IM-T42xx



IM-T50xx

(where xx is implant length)

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 |

Site Preparation Sequence

(illustrations are for 13 mm implants)

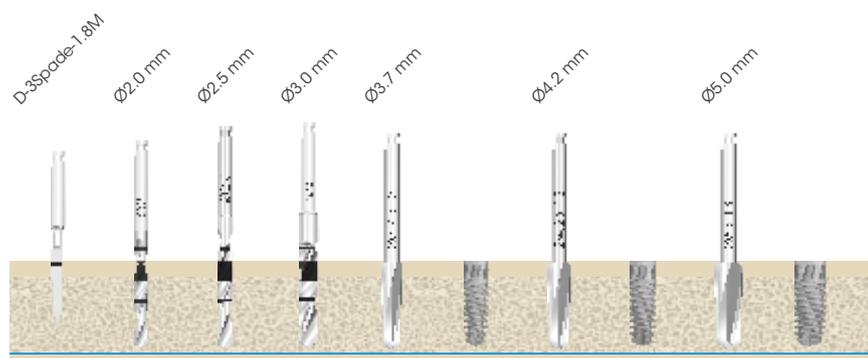
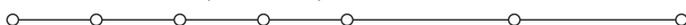
Ø3.7 mm Tapered (IM-T37xx)



Ø4.2 mm Tapered (IM-T42xx)



Ø5.0 mm Tapered (IM-T50xx)



NOTE: site preparation sequence recommended by Southern Implants does not replace the judgement and experience of the surgeon.

Surgical Components

Cover Screw

CS-M



Healing Abutments

HA-M-37-x

Ø3.7



3/4/6
lengths

HA-M-45-x

Ø4.5



3/4/6
lengths

HA-M-55-x

Ø5.5



3/4/6
lengths

(where x is length)

DIRECT

Healing Abutments

HA-M-37



3/4/6

HA-M-45



4/6

HA-M-45



3

HA-M-55



3/4/6

Impression Copings

ICT-M

(pick-up)



IC-M

(transfer)



ICT-MW

(pick-up)



SFT-M

(scanning flag)



Titanium

Laboratory Analogues

LA-M



LAD-M



(digital analogue)

Prosthetic Components

TC-M
(engaging)
TC-NM
(non-engaging)



Titanium

GC-EM
(engaging)
GC-NM
(non-engaging)



Gold

PKR-M
(engaging)
PKR-NM
(non-engaging)



PEEK*

*Screw torque:
15 Ncm

SIB-M-43C1.5
(engaging)
SIB-NM-43C1.5
(non-engaging)



Ø4.3 platform
1.5 mm collar

SIB-M-43C3
(engaging)
SIB-NM-43C3
(non-engaging)



Ø4.3 platform
3 mm collar

SIB-M-48C3
(engaging)
SIB-NM-48C3
(non-engaging)



Ø4.8 platform
3 mm collar

SIB-M-48C5
(engaging)
SIB-NM-48C5
(non-engaging)



Ø4.8 platform
5 mm collar

TIB-M
(engaging)
TIB-NM
(non-engaging)



0.6 mm collar

TIB-M-C1.5
(engaging)
TIB-NM-C1.5
(non-engaging)



1.5 mm collar

TIB-M-C3
(engaging)
TIB-NM-C3
(non-engaging)



3 mm collar

CAB-M
(engaging)
CAB-NM
(non-engaging)



3 mm collar

Angulated Screw
Channel
Abutment

PASSIVE
Abutments

PA-EM-S
(engaging)
PA-NM-S
(non-engaging)



ASC-M



(packed with screw)

ASC Abutment Screw
TS-Z-18-ASC



Titanium

Torque
20 Ncm

Passive Abutment Screws

PA-M-18T



Titanium
(1.27 Hex)

TORQUE:
32 Ncm

PA-M-18B



Brass
(1.27 Hex)

*Blackened and
for laboratory
use only
(finger tighten)

Retaining Screws

TS-Z-18



Titanium
(1.27 Hex)

TORQUE:
32 Ncm

BS-Z-18*



Brass
(1.27 Hex)

*Blackened and
for laboratory
use only
(finger tighten)

NOTE: for Equator overdenture abutments refer to CAT-1189.

INDIRECT

Compact Conical Abutments

MC-M



1/2/3/4/5

MC-M-20d*



MC-M-30d*



* Packed with TS-Z-MC-18

TORQUE: 32 Ncm

Healing Caps

HMC

4/6

OR

HMCT7

4/6

Impression Copings

CMC1 (pick-up)



CMC2 (Transfer)



CMC-ZG-2 (Transfer)



SFT-MC-48 (scanning flag)



Titanium

Laboratory Analogues

LSMC1



LAD-MC



(digital analogue)

Prosthetic Components

GMC1



Gold

TMC1 / 5



Titanium
TMCSL (long version)

SIB-TMC1



1 mm collar

PA-MC-48 (passive abutment)



ASC-TMC1 (angulated screw channel abutment)



(packed with screw)

PKR-MC-48



PEEK*
* Screw torque: 10 - 15 Ncm

Retaining Screws

1 Series Screws

TORQUE: 10 - 15 Ncm

TST1-ASC

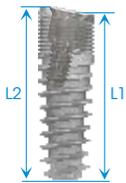


TORQUE: 10 - 15 Ncm

INTERNAL HEX CO-AXIS®

Ø4.2 mm

Ø4.2 mm Co-Axis® Implants (Tapered)



IM-T42XX-12D

(xx represents implant length)

Implants are premounted and available in lengths of:

NOTE: Implant dimensions and information - page 22

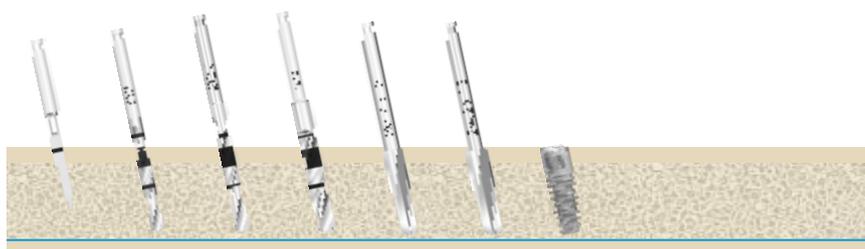
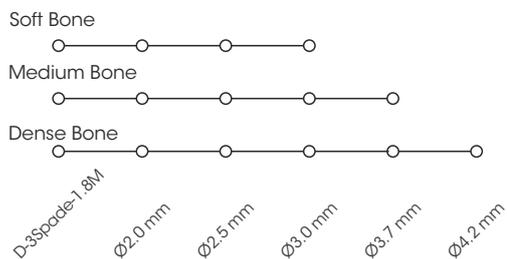
| ITEM CODE | IMPLANT LENGTHS (in mm) | |
|--------------|-------------------------|------|
| | L1 | L2 |
| IM-T4208-12D | 8.0 | 8.3 |
| IM-T4210-12D | 10.0 | 10.3 |
| IM-T4211-12D | 11.5 | 11.8 |
| IM-T4213-12D | 13.0 | 13.3 |
| IM-T4215-12D | 15.0 | 15.3 |
| IM-T4218-12D | 18.0 | 18.3 |

NOTE: implants are packed with fixture mount. See page 15 for more information.

Site Preparation Sequence

(illustrations are for 13 mm implants)

Ø4.2mm Tapered Co-Axis® (IM-T42xx-12D)



NOTE: site preparation sequence recommended by Southern Implants does not replace the judgement and experience of the surgeon.

Surgical Components

Cover Screw

CS-M



Healing Abutments

HA-M-37-x

Ø3.7



3/4/6 lengths

HA-M-45-x

Ø4.5



3/4/6 lengths

HA-M-55-x

Ø5.5



3/4/6 lengths

(where x is length)

DIRECT

Healing Abutments

HA-M-37



3/4/6

HA-M-45



4/6

HA-M-45



3

HA-M-55



3/4/6

Impression Copings

ICT-M

(pick-up)



IC-M

(transfer)



ICT-MW

(pick-up)



SFT-M

(scanning flag)



Titanium

Laboratory Analogues

LA-M



LAD-M



(digital analogue)

Prosthetic Components

TC-M
(engaging)
TC-NM
(non-engaging)



Titanium

GC-EM
(engaging)
GC-NM
(non-engaging)



Gold

PKR-M
(engaging)
PKR-NM
(non-engaging)



PEEK*

*Screw torque:
15 Ncm

SIB-M-43C1.5
(engaging)
SIB-NM-43C1.5
(non-engaging)



Ø4.3 platform
1.5 mm collar

SIB-M-43C3
(engaging)
SIB-NM-43C3
(non-engaging)



Ø4.3 platform
3 mm collar

SIB-M-48C3
(engaging)
SIB-NM-48C3
(non-engaging)



Ø4.8 platform
3 mm collar

SIB-M-48C5
(engaging)
SIB-NM-48C5
(non-engaging)



Ø4.8 platform
5 mm collar

TIB-M
(engaging)
TIB-NM
(non-engaging)



0.6 mm collar

TIB-M-C1.5
(engaging)
TIB-NM-C1.5
(non-engaging)



1.5 mm collar

TIB-M-C3
(engaging)
TIB-NM-C3
(non-engaging)



3 mm collar

CAB-M
(engaging)
CAB-NM
(non-engaging)



Angulated Screw
Channel
Abutment

ASC-M



(packed with screw)

PA-EM-S
(engaging)
PA-NM-S
(non-engaging)



PASSIVE
Abutments

Retaining Screws

TS-Z-18



Titanium
(1.27 Hex)

TORQUE:
32 Ncm

BS-Z-18*



Brass
(1.27 Hex)

*Blackened and
for laboratory
use only

(finger tighten)

ASC Abutment Screw
TS-Z-18-ASC



Titanium

Torque
20 Ncm

Passive Abutment Screws

PA-M-18T



Titanium
(1.27 Hex)

TORQUE:
32 Ncm

PA-M-18B

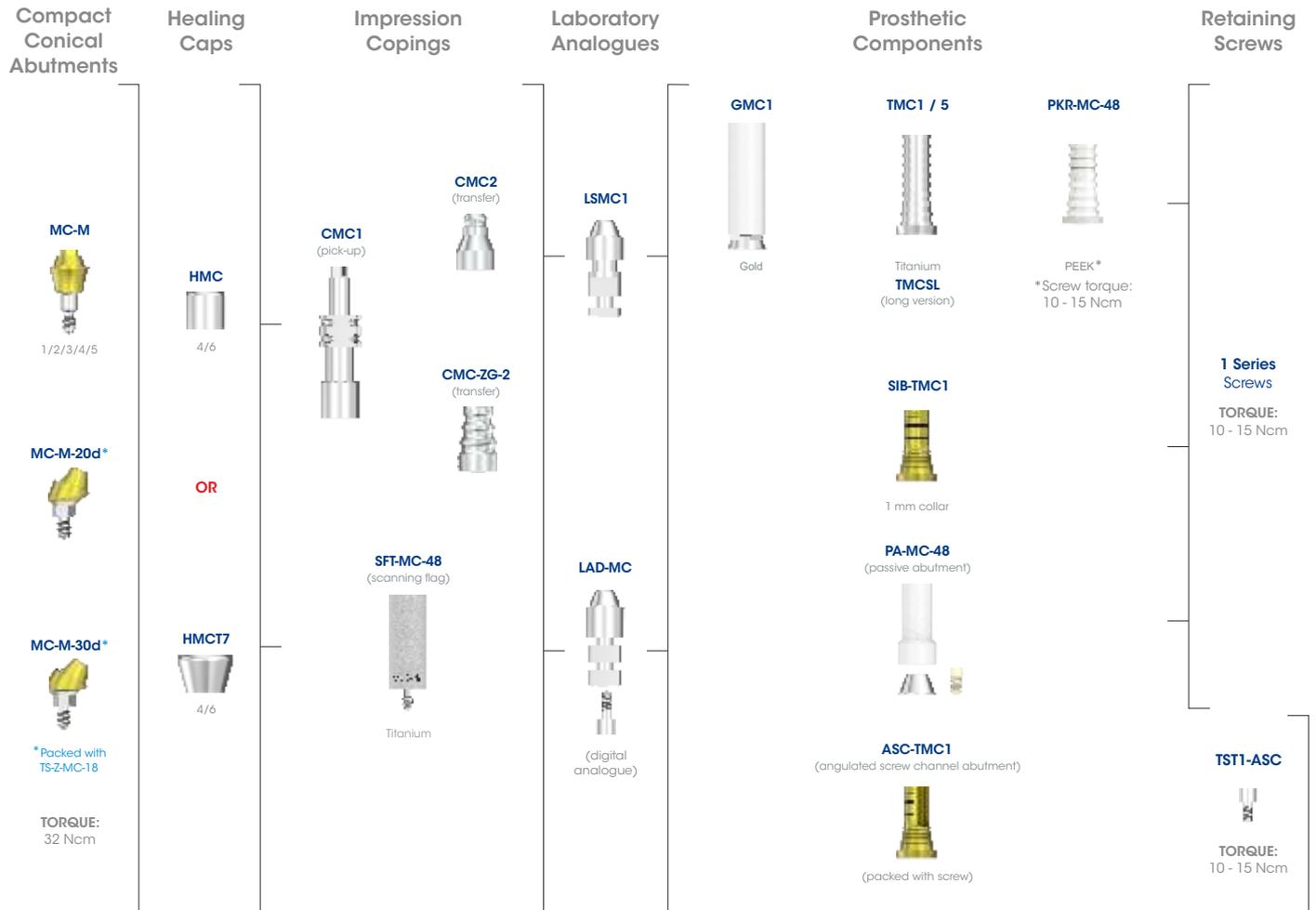


Brass
(1.27 Hex)

*Blackened and
for laboratory
use only
(finger tighten)

NOTE: for Equator overdenture abutments refer to CAT-1189.

INDIRECT

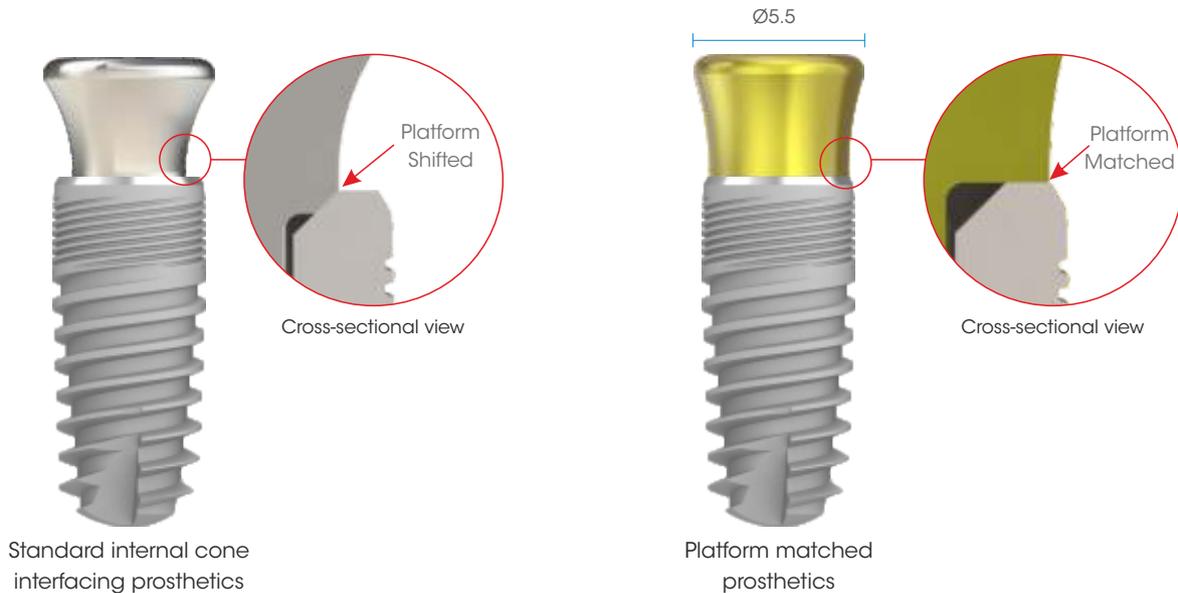


PLATFORM MATCHED PROSTHETICS

for Ø5 mm implants

The Platform Matched Prosthetic Approach

In applications of the $\varnothing 5$ mm Internal Hex implants, for single posterior teeth, the platform matched approach is suggested. This approach uses the maximum implant platform dimension, in order to give the single tooth prosthetics greater stability.



The platform matched approach is indicated when:

- restoring a single posterior tooth.
- the patient is known to have a very strong bite and bruxism is present.
- the occlusal table of the crown will be significantly larger than that of the implant and abutment (Fig. 1).
- excessive cantilevers can't be avoided (Fig. 2).

Warning: these Platform Matched Prosthetics are not compatible with $\varnothing 3.7$ mm / $\varnothing 4.2$ mm Internal Hex implants or $\varnothing 4.2$ mm Internal Hex Co-Axis[®] implants.

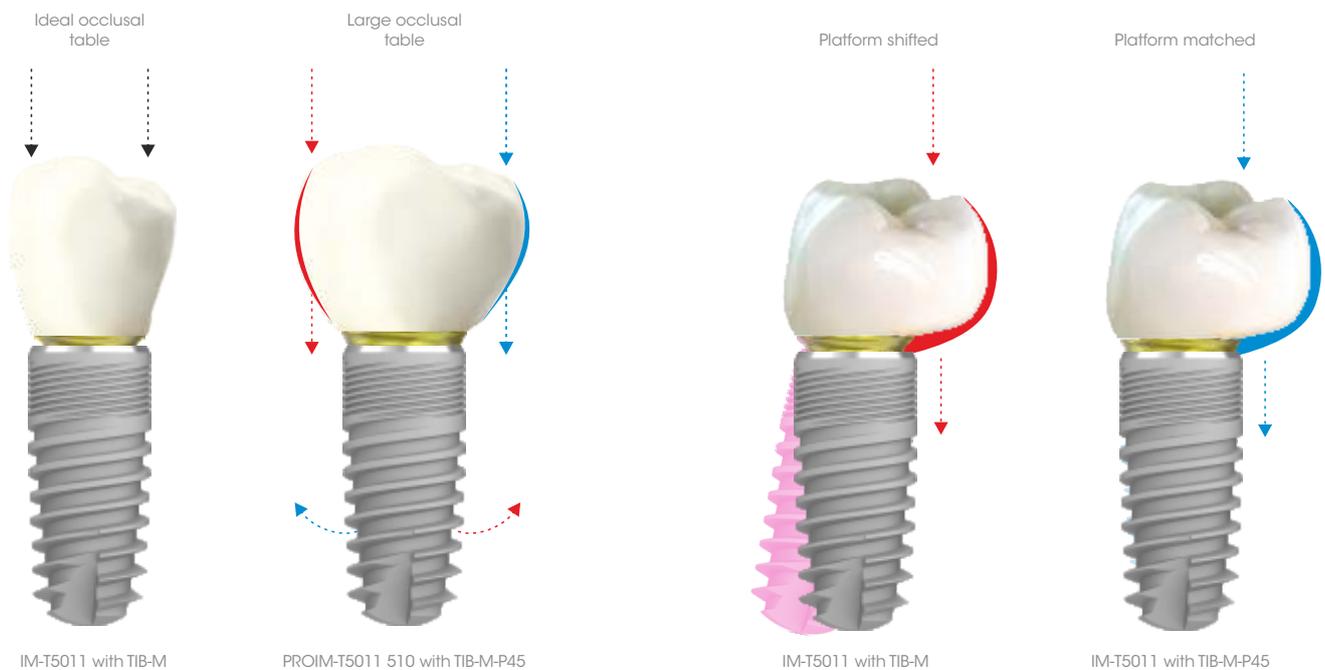
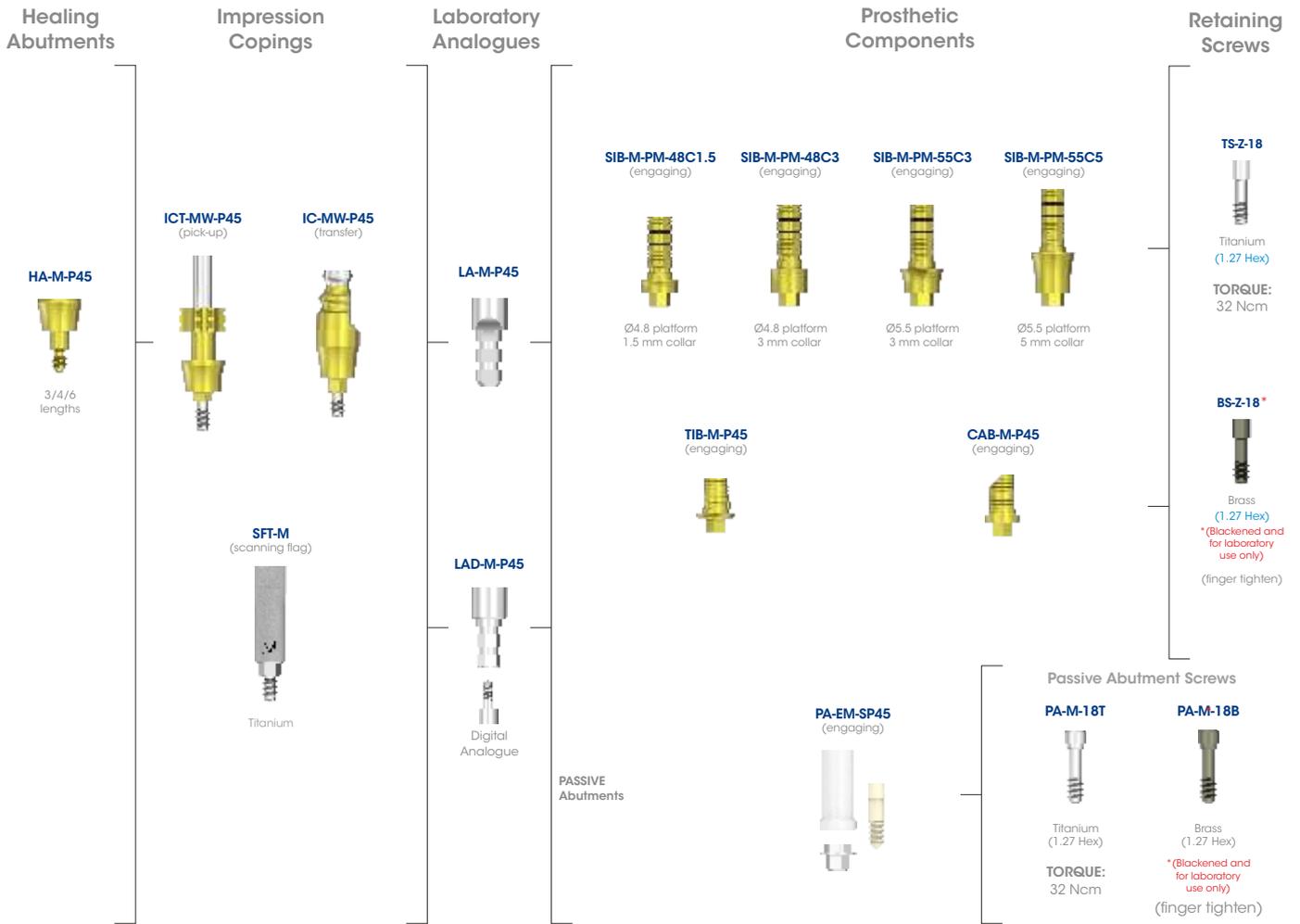


Fig 1: with large occlusal tables, maximise the platform dimension with platform matched components.

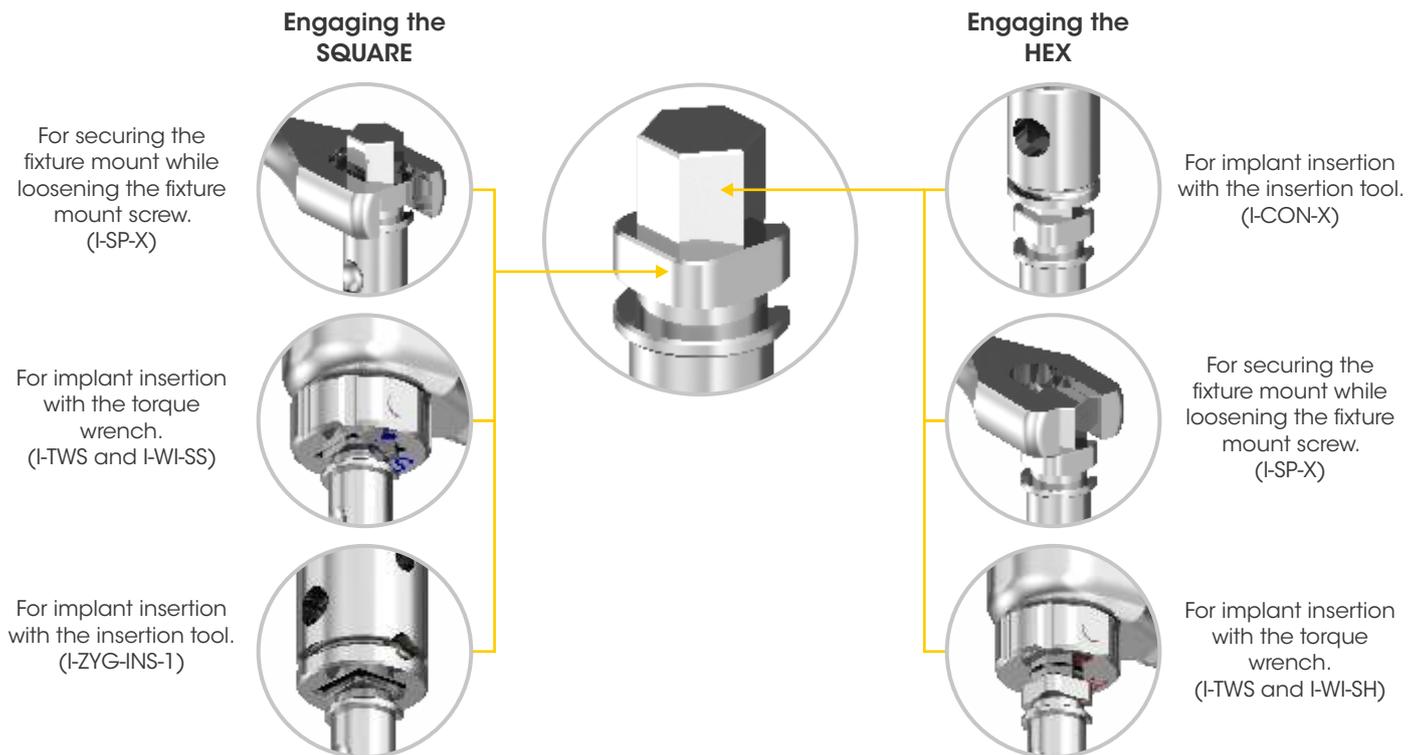
Fig 2: excessive cantilevers - use platform matched components to compensate for non-ideal crown-implant ratios.

After case planning either the standard platform or platform matched workflow can be followed.

DIRECT

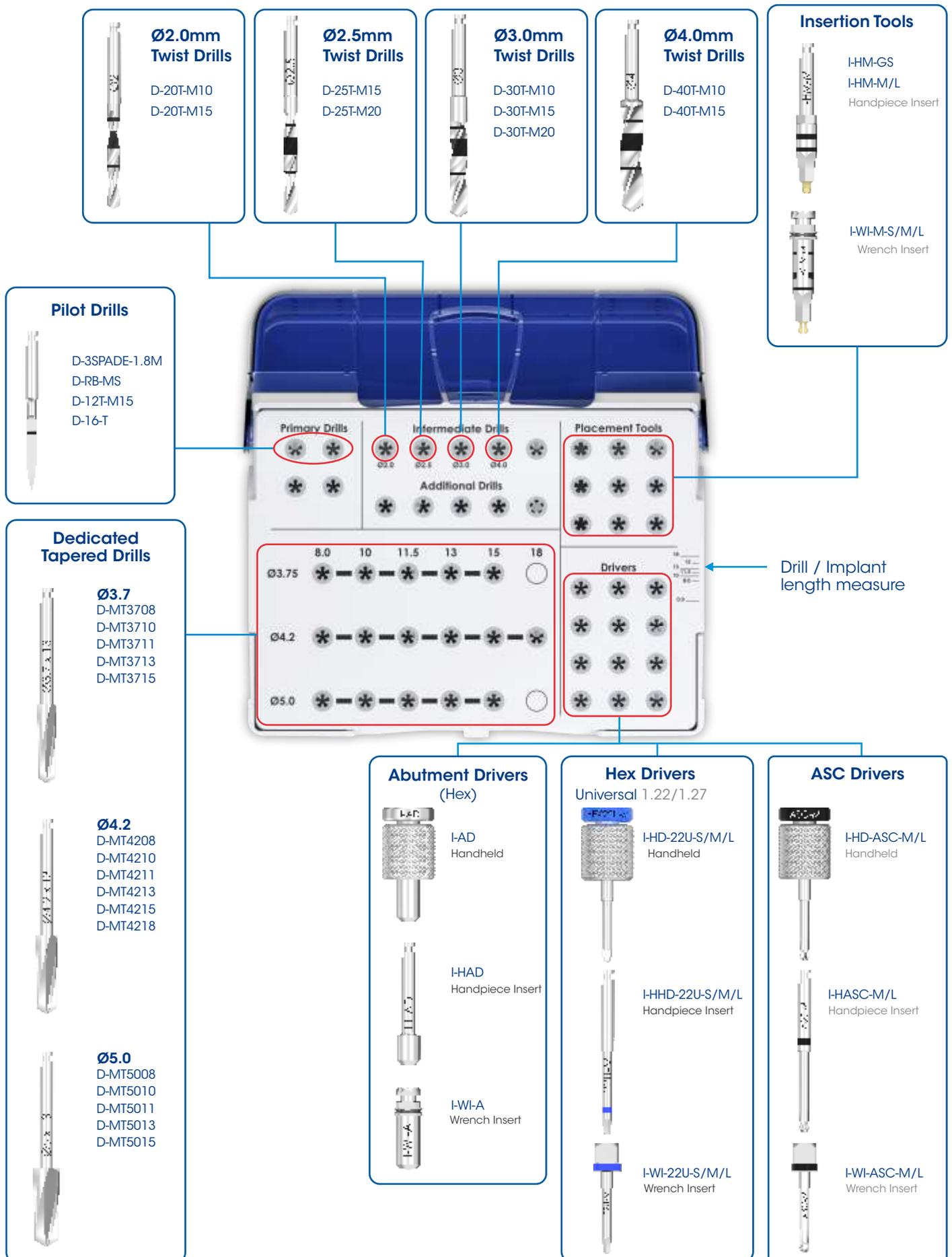


Instruments for implants packaged with a fixture mount

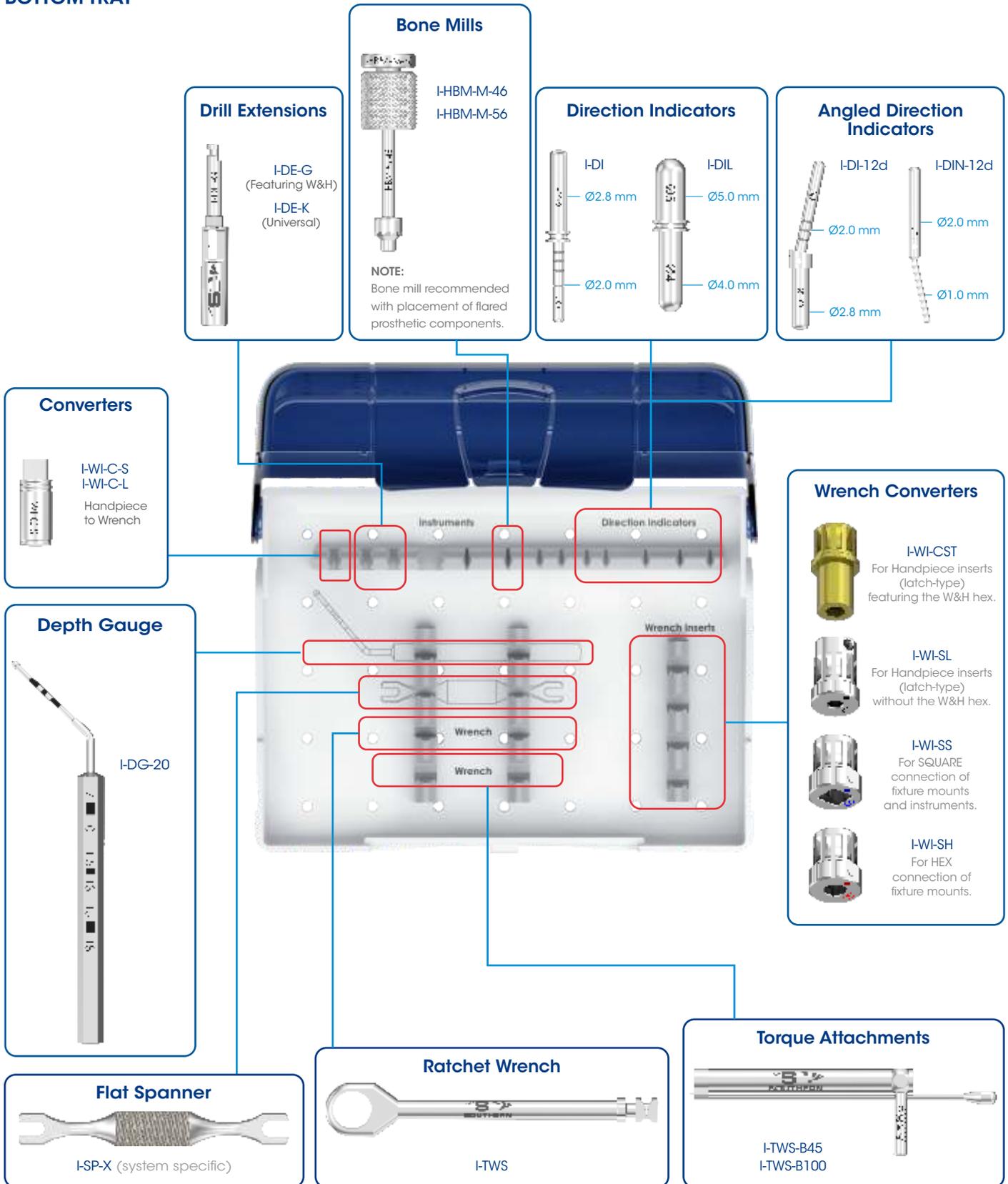


NOTE: for images of instruments illustrated here, refer to instrument tray pages (32 - 36).

TOP TRAY

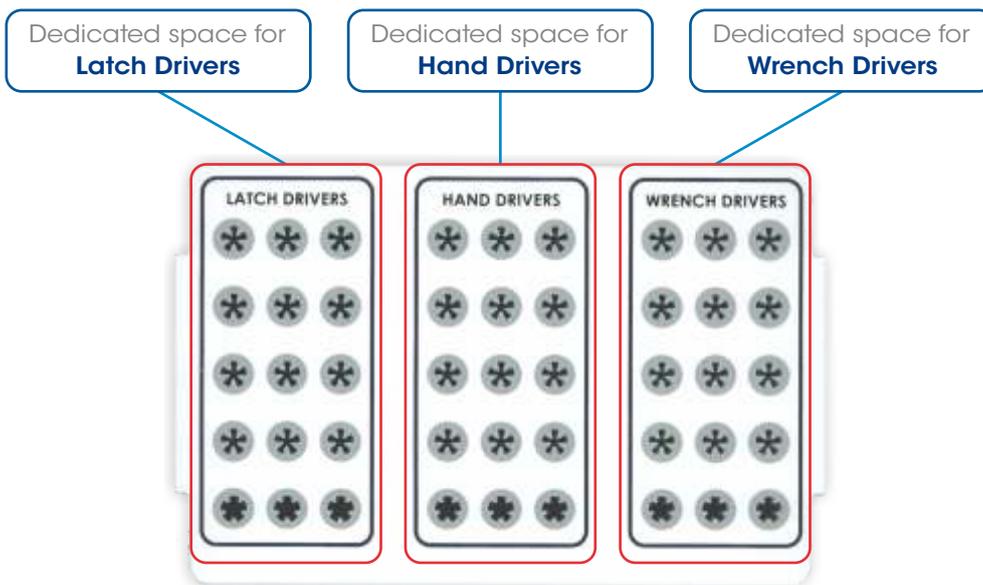


BOTTOM TRAY



- NOTE:**
- the instrument tray 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-8035 for more information on bone mills.

TOP TRAY



BOTTOM TRAY

Wrench Converters

- I-WI-CST**
For Handpiece inserts (latch-type) featuring the W&H hex.
- I-WI-SL**
For Handpiece inserts (latch-type) without the W&H hex.
- I-WI-SS**
For SQUARE connection of fixture mounts and instruments.
- I-WI-SH**
For HEX connection of fixture mounts.

Flat Spanner
I-SP-X (system specific)

Ratchet Wrench
I-TWS

Torque Attachments
I-TWS-B45
I-TWS-B100

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 are available in various lengths.

TORQUE TABLE FOR SOUTHERN SCREWS

1.27 Hex Prosthetic screws

M1.8



TS-Z-18



BS-Z-18*
(finger tighten)

TORQUE:
32 Ncm
Head diameter:
2.25 mm
Screw **TORQUE** with
PEEK prosthetics:
15 Ncm

1.27 Hex Passive Abutment screws

M1.8



PA-M-18T



PA-M-18B*
(finger tighten)

TORQUE:
32 Ncm
Head diameter:
2.60 mm

Digital Laboratory Analogue screw

1.22 Hex



LAD-S

Screw supplied with all digital analogues.

TORQUE:
Finger tighten
Head diameter:
2.40 mm

ASC 1 Series screw



TST1-ASC

TORQUE:
10 - 15 Ncm
Head diameter:
2.30 mm

1 Series screws (M1.4)

1.22 Hex



TSH1



BSH1*
(finger tighten)

Slotted



TSS1



BSS1*
(finger tighten)

Unigrip



TSU1

TORQUE:
10 - 15 Ncm
Head diameter:
2.25 mm
Screw **TORQUE** with
PEEK prosthetics:
10 - 15 Ncm

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 slotted 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-WF-22U-S-/M/L

Screw Head Connections

Hex



Slotted



Unigrip



ASC



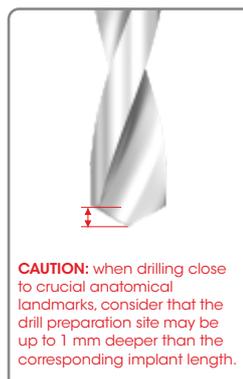
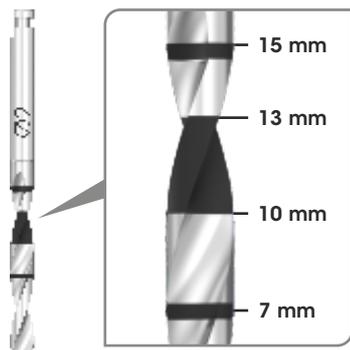
Screw product codes

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

- T** = Titanium
- G** = Gold
- B** = Brass
- P** = Passive screws - Titanium anodised

DRILL INFORMATION

Twist drill markings



Final tapered drill position for Co-Axis® implants

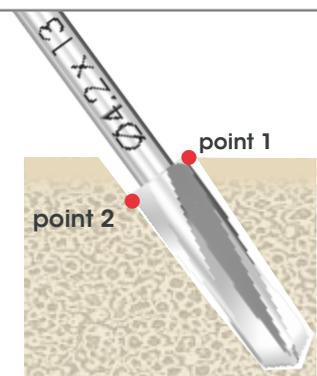
PLEASE NOTE:

Point 1

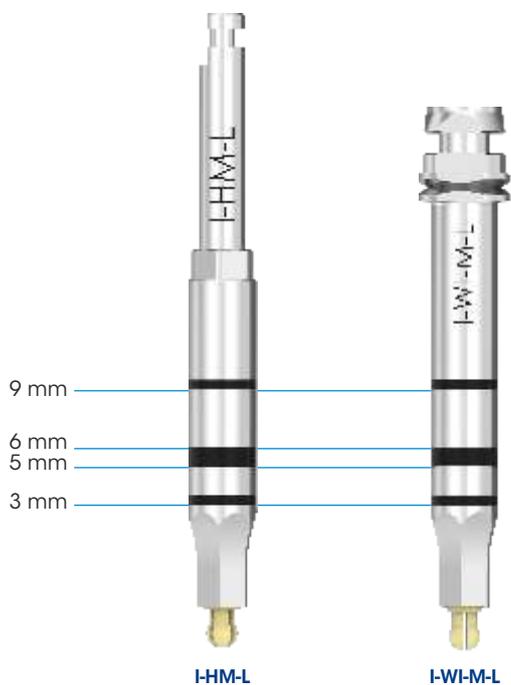
This corner of the drill is to be at bone level.

Point 2

This corner of the drill will be subcrestal.



INSERTION TOOL DEPTH MARKINGS



NOTE:

- laser markings at 3 mm, 5 mm, 6 mm and 9 mm from implant platform.
- refer to CAT-8056 for insertion tool markings and depths.

Important: the PEEK bits (I-PBIT-L18 and I-PBIT-H16) should be replaced on a regular basis. Items sold separately. General wear and tear are to be expected with regular use.

INSERTION TOOL PROTOCOL

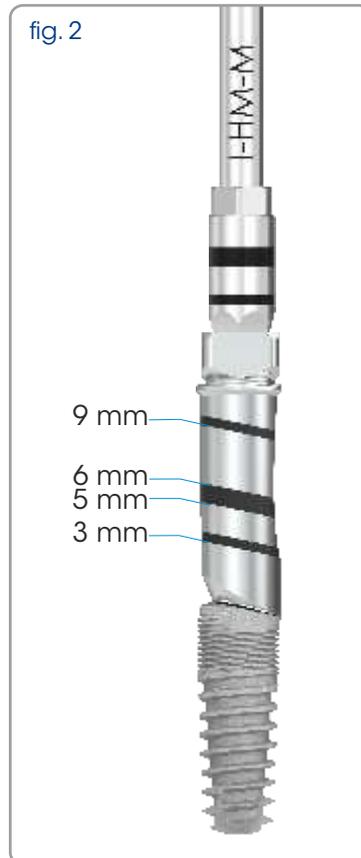
IMPLANT PLACEMENT PROCEDURE FOR STRAIGHT INTERNAL HEX IMPLANTS

1. The tool I-HM-GS / I-HM-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 15 rpm while applying downward pressure.



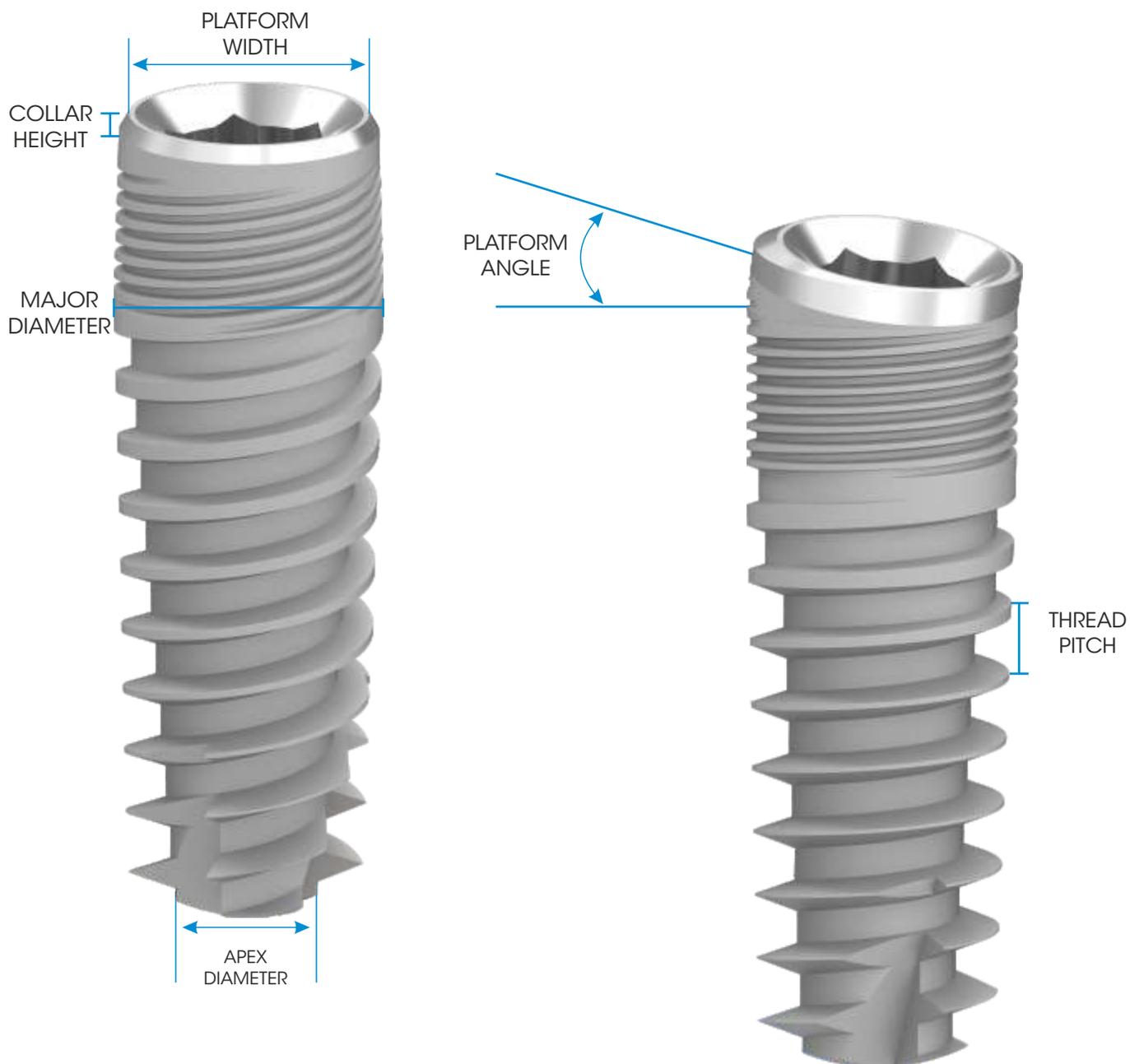
CO-AXIS® FIXTURE MOUNT REMOVAL PROTOCOL

1. The tool I-HM-GS / I-HM-M/L is used to pick up the implant from the packaging (fig. 2) 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. 3).



IMPLANT DIMENSIONS AND INFORMATION

| RANGE | MAJOR DIAMETER | PLATFORM WIDTH | PROSTHETIC DIAMETER | PROSTHETICS | HEX WIDTH (across flats) | COLLAR HEIGHT | THREAD PITCH | APEX DIAMETER | CYLINDRICAL OR TAPERED | PLATFORM ANGLE | IMPLANT LENGTHS | | | | | | |
|------------|----------------|----------------|---------------------|-------------|--------------------------|---------------|--------------|---------------|------------------------|----------------|-----------------|----|----|----|----|----|---|
| | | | | | | | | | | | 8 | 10 | 11 | 13 | 15 | 18 | |
| IM-T37 | Ø3.75 mm | 3.83 | 3.75 | 3.6 | ● Standard | 2.44 | 0.30 | 1.0 | 3.1 | T | | ✓ | ✓ | ✓ | ✓ | ✓ | |
| IM-T42 | Ø4.2 mm | 4.2 | 3.75 | 3.6 | ● Standard | 2.44 | 0.27 | 1.0 | 3.7 | T | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| IM-T50 | Ø5.0 mm | 5.0 | 4.55 | 3.6 / 4.5 | ● Platform matched | 2.44 | 0.27 | 1.0 | 4.5 | T | | ✓ | ✓ | ✓ | ✓ | ✓ | |
| IM-T42-12D | Ø4.2 mm | 4.2 | 3.75 | 3.6 | ● Standard | 2.44 | 0.15 | 1.0 | 3.7 | T | 12° | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |



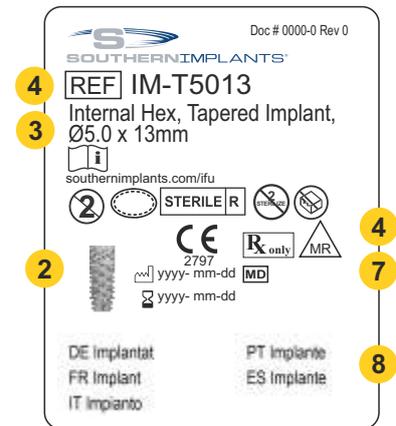
NOTE:

- all dimensions in this catalogue are in mm, unless otherwise specified.
- where 'xx' refers to implant length.
- 'NF' in the item code denotes that the implant is packaged without a fixture mount.
- not all products are cleared for sale in all countries.

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
- 4  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

Platform Interface

 Standard Interface

 Platform Matched Interface

For more information scan the below



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