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

(XX represents implant length)

Implants are available in lengths of:

<table>
<thead>
<tr>
<th>ITEM CODE TAPERED</th>
<th>IMPLANT LENGTHS (in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IM-T3708</td>
<td>8.0</td>
</tr>
<tr>
<td>IM-T3710</td>
<td>10.0</td>
</tr>
<tr>
<td>IM-T3711</td>
<td>11.5</td>
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<td>IM-T3713</td>
<td>13.0</td>
</tr>
<tr>
<td>IM-T3715</td>
<td>15.0</td>
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</table>

<table>
<thead>
<tr>
<th>ITEM CODE TAPERED</th>
<th>IMPLANT LENGTHS (in mm)</th>
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<tbody>
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<td>IM-T4208</td>
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<tr>
<td>IM-T4210</td>
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<td>IM-T4215</td>
<td>15.0</td>
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<tr>
<td>IM-T4218</td>
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<td>IM-T5013</td>
<td>13.0</td>
</tr>
<tr>
<td>IM-T5015</td>
<td>15.0</td>
</tr>
</tbody>
</table>

NOTE: Implant dimensions and information - page 22

Surgical Components

Cover Screw | Healing Abutments
--- | --- | --- | ---
CS-M | HA-M-37 | HA-M-45 | HA-M-55
Ø3.7 | Ø4.5 | Ø5.5 |
3/4/6 lengths | 3/4/6 lengths | 3/4/6 lengths
Prosthetic Flowchart

DIRECT

Healing Abutments
- HAM-37
- HAM-4S
- HAM-5S
- HAM-5S
- HAM-5S

Impression Copings
- ICTM (printing)
- ICT-M (printing)
- ICT-MW (printing)
- ICT-MW (printing)
- ICT-MW (printing)

Laboratory Analogues
- LA-M
- LA-M
- LA-M
- LA-M
- LA-M

Prosthetic Components
- TC-M (engaging)
- TC-M (non-engaging)
- GC-EM (engaging)
- GC-EM (non-engaging)
- PKC-M-2 (SLP)
- PKC-M-2 (SLP)
- PBK (PEEK*)
- Screw torque: 10 - 15 Ncm

Retaining Screws
- TS-18
- TS-18
- TS-18
- TS-18
- TS-18

INDIRECT

Compact Conical Abutments
- MC-M
- MC-M
- MC-M
- MC-M
- MC-M

CMC1 (printing)
CMC2 (printing)
LMC1 (printing)
LMC1 (print)
LMC1 (print)

G-MC1
TMC1 / 6
PKC-MC

Gold
Gold
PEEK*
Screw torque: 10 - 15 Ncm

Passive Abutment Screws
- PA-M-18T
- PA-M-18G
- PA-M-18B*

Gold
Gold
Brass

NOTE: Refer to CAE-189 for Equator Overdenture Abutments.
Site Preparation Sequence

Ø3.7mm Tapered (IM-T37xx)  
(Illustrations are for 1.3mm implants)

Ø4.2mm Tapered (IM-T42xx)

Ø5.0mm Tapered (IM-T50xx)

NOTE:  
- Site preparation sequence recommended by Southern Implants does not replace the judgement and experience of the surgeon.  
- Refer to page 20 for the Fixture Mount Removal Protocol.
INTERNAL HEX CO-AXIS®

Ø4.2mm
**Ø4.2mm Co-Axis® Implants (Tapered)**

![Image](Image66x567to116x719)

**IM-T42XX-12D**

**(xx** represents implant length)

**Implants are pre-mounted and available in lengths of:**

<table>
<thead>
<tr>
<th>ITEM CODE</th>
<th>IMPLANT LENGTHS (mm)</th>
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<tr>
<td></td>
<td>L1</td>
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<td>IM-T4208-12D</td>
<td>8.0</td>
</tr>
<tr>
<td>IM-T4210-12D</td>
<td>10.0</td>
</tr>
<tr>
<td>IM-T4211-12D</td>
<td>11.5</td>
</tr>
<tr>
<td>IM-T4213-12D</td>
<td>13.0</td>
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<tr>
<td>IM-T4215-12D</td>
<td>15.0</td>
</tr>
<tr>
<td>IM-T4218-12D</td>
<td>18.0</td>
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**NOTE**: Implant dimensions and information - page 22

**Surgical Components**

<table>
<thead>
<tr>
<th>Cover Screw</th>
<th>Healing Abutments</th>
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<tbody>
<tr>
<td>CS-M</td>
<td>HA-M-37</td>
</tr>
<tr>
<td></td>
<td>Ø3.7</td>
</tr>
<tr>
<td></td>
<td>3/4/6 lengths</td>
</tr>
<tr>
<td></td>
<td>HA-M-45</td>
</tr>
<tr>
<td></td>
<td>Ø4.5</td>
</tr>
<tr>
<td></td>
<td>3/4/6 lengths</td>
</tr>
<tr>
<td></td>
<td>HA-M-55</td>
</tr>
<tr>
<td></td>
<td>Ø5.5</td>
</tr>
<tr>
<td></td>
<td>3/4/6 lengths</td>
</tr>
</tbody>
</table>
Prosthetic Flowchart

**DIRECT**

### Healing Abutments
- HAM-37
- HAM-45
- HAM-55

### Impression Copings
- ICTM (passive)
- IC-M (titanium)
- ICT-MW (titanium)

### Laboratory Analogues
- LA-M

### Prosthetic Components
- TC-M (engaging)
- TC-NM (non-engaging)
- GC-EM (engaging)
- GC-NM (non-engaging)
- PKC-M2 (engaging)
- PKC-NM2 (non-engaging)
- PEEK *
- Titanium
- Gold

### Retaining Screws
- TS-10
- Titanium (1.27 mm)
- TORQUE: 32 Ncm
- GS-10
- Gold (Burs)
- TORQUE: 22 Ncm
- BL-10 *
- Brass (1.27 mm)
- *Screw torque: 10 - 15 Ncm

**INDIRECT**

### Compact Conical Abutments
- HMC
- CMC1 (passive)
- CMC2 (transonic)
- LSCM1
- G-MC1
- TMC1 / 5
- PKC-MC

### Passive Abutment Screws
- PA-M-18T
- PA-M-18G
- PA-M-18B *
- Titanium (1.27 mm)
- Gold (Burs)
- Brass (1.27 mm)
- *Screw torque: 10 - 15 Ncm

**NOTE:** * Refer to CAF-189 for Equator Overdenture Abutments.
Site Preparation Sequence

Ø4.2mm Tapered Co-Axis® (IM-T42xx-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 20 for the Fixture Mount Removal Protocol.
PLATFORM MATCHED PROSTHETICS

for Ø5mm implants
In applications of the Ø5mm Internal Hex 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 Ø3.7mm/ Ø4.2mm Internal Hex implants or Ø4.2mm Internal Hex Co-Axis® implants.

Compatible with:

<table>
<thead>
<tr>
<th>ITEM CODE</th>
<th>IMPLANT LENGTHS (in mm)</th>
</tr>
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<tbody>
<tr>
<td>IM-T5008</td>
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<td>IM-T5013</td>
<td>13.0</td>
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<tr>
<td>IM-T5015</td>
<td>15.0</td>
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</table>

NOTE: Implant dimensions and information - page 22

Surgical Components

<table>
<thead>
<tr>
<th>Cover Screw</th>
<th>Healing Abutments</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-M</td>
<td>HA-M-P45</td>
</tr>
<tr>
<td><img src="image" alt="Cover Screw" /></td>
<td><img src="image" alt="Healing Abutments" /></td>
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</table>

3/4/6 length
### Direct

<table>
<thead>
<tr>
<th>Healing Abutments</th>
<th>Impression Copings</th>
<th>Laboratory Analogues</th>
<th>Prosthetic Components</th>
<th>Retaining Screws</th>
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</thead>
<tbody>
<tr>
<td>C1-M</td>
<td>ICT-MW-P45</td>
<td>LA-M-P45</td>
<td>TI-Z-18</td>
<td>Ti-Z-18</td>
</tr>
<tr>
<td>IM-780</td>
<td>ICT-MW-P45</td>
<td></td>
<td></td>
<td>Titanium 1.27mm</td>
</tr>
<tr>
<td></td>
<td>HA-M-P45</td>
<td></td>
<td></td>
<td>Torque: 33 Ncm</td>
</tr>
<tr>
<td></td>
<td>3 / 4 / 5</td>
<td></td>
<td></td>
<td>GS-G-18</td>
</tr>
<tr>
<td></td>
<td>lengths</td>
<td></td>
<td></td>
<td>Gold (24k)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Torque: 33 Ncm</td>
</tr>
<tr>
<td>SFAM</td>
<td>Scanmax</td>
<td>LAD-M-P45</td>
<td>BS-Z-18*</td>
<td>Brass (17k)</td>
</tr>
<tr>
<td></td>
<td>Titanium</td>
<td>(digital analogue)</td>
<td></td>
<td>*Coated and laboratory use only</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Passive Abutment</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>PA-18T</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>PA-18G</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>PA-188*</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- Titanium 1.27 mm
- Torque: 33 Ncm
- Gold (24k)
- Brass (17k)
- Coated and laboratory use only
- Passive Abutment Screws
- PA-18T
- PA-18G
- PA-188*
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, cleaned and sterilized prior to use. Please consult the Instructions for Use: Southern Implants instrument tray and reusable instruments (CAT-603) and CAT-6070) 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-6035 for more information on bone mills and polishing protector caps.
I-PROSEG Prosthetic Instrument Tray

TOP TRAY

Dedicated space for Latch Drivers
Dedicated space for Hand Drivers
Dedicated space for Wrench Drivers

BOTTOM TRAY

Wrench Insert 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-WK-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-645
- I-TWS-8100

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

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

### 1.27 Hex Passive Abutment screws  
Quad Passive Abutment screws

| TORQUE:  
| 32Ncm  
| Head Diameter:  
| 2.60mm |

## Digital Laboratory Analogue screw  
1 Series screws (M1.4)

| 1.22 Hex  
| TORQUE:  
| Finger tighten  
| Head Diameter:  
| 2.40mm  
| Screw supplied with all Digital Analogues |

| 1.22 Hex  
| TSH1  
| GSH1  
| BSH1*  
| TSU1  
| GSU1 |

## 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-1003 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:
  - 1HID22US/M/L
  - 1HID22US/XM/L
  - 1HW22US/M/L

## Screw Head Connections

- **Hex**
- **Quad**
- **Unigrip**
**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. 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 HD-22U-S / M / L handheld driver (fig. 3).
**DRILL INFORMATION**

**Twist Drill Markings**

![Twist Drill Markings](image)

**Final tapered drill position for Co-Axis® implants**

![Final tapered drill position](image)

**CAUTION:** When drilling close to crucial anatomical landmarks, consider that the drill preparation site may be up to 1mm deeper than the corresponding implant length.

**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**

![Insertion Tool Markings](image)

**INSTRUMENTATION**

![Instrumentation](image)

**I-HM-L used for illustration purposes**

**I-WM-L used for illustration purposes**

**NOTE:**
- Laser markings at 3mm, 5mm, 6mm and 9mm from the implant platform.
- Refer to CAT-8056 for Insertion Tool markings and depths.

**Important:** The PEEK bits (I-PBIT-L 8) should be replaced on a regular basis. General wear & tear are to be expected with regular use. Items sold separately.
# Implant Dimensions and Information

<table>
<thead>
<tr>
<th>Range</th>
<th>Major Diameter</th>
<th>Implant Platform Diameter</th>
<th>Prosthesis Diameter</th>
<th>Prosthesis</th>
<th>Hex Width (inch)</th>
<th>Smooth Collar Height</th>
<th>Thread Pitch</th>
<th>Apex Diameter</th>
<th>Cylindrical or Flared</th>
<th>Platform Angle</th>
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<tbody>
<tr>
<td>IM-T37</td>
<td>Ø3.75mm</td>
<td>3.83</td>
<td>3.75</td>
<td>3.6</td>
<td>2.44</td>
<td>0.30</td>
<td>1.0</td>
<td>3.1</td>
<td>T</td>
<td>✓</td>
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<tr>
<td>IM-T42</td>
<td>Ø4.2mm</td>
<td>4.2</td>
<td>3.75</td>
<td>3.6</td>
<td>2.44</td>
<td>0.27</td>
<td>1.0</td>
<td>3.7</td>
<td>T</td>
<td>✓</td>
</tr>
<tr>
<td>IM-T50</td>
<td>Ø5.0mm</td>
<td>5.0</td>
<td>4.55</td>
<td>3.6 / 4.5</td>
<td>2.44</td>
<td>0.27</td>
<td>1.0</td>
<td>4.5</td>
<td>T</td>
<td>✓</td>
</tr>
<tr>
<td>IM-T42-12D</td>
<td>Ø4.2mm</td>
<td>4.2</td>
<td>3.75</td>
<td>3.6</td>
<td>2.44</td>
<td>0.15</td>
<td>1.0</td>
<td>3.7</td>
<td>T 12°</td>
<td>✓</td>
</tr>
</tbody>
</table>

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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. **Sterilization using Irradiation**
5. **European Representative**
6. **Catalogue number**
7. **Batch Code**
8. **Do not Resterilize**
9. **Consult instruction for use**
10. **Do not reuse**
11. **CE mark and notified body number**
12. **Use by Date**
13. **Date of manufacture**
14. **Do not use if package is damaged**
15. **Identifies the product as a medical device**
16. **2D Bar coding**
   - Contains the GTIN, Use by Date and LOT Number
17. **Patient sticker for documentation purposes**
   - (to be used by health care provider on patient file)
18. **Prescription device**

**CAUTION:** FEDERAL LAW restricts the device to sale by or on the order of a licenced health care provider.

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

or visit our website
southernimplants.com/ifu

Images are for illustration purposes only and do not necessarily accurately represent the product.