Dental implants are now an indispensable part of dental treatment options. With the globalization of medical infrastructures and higher standards of living, implant applications continue to increase.

Southern Implants has been a manufacturer and distributor of dental implants since 1987. Today, the Southern group is a leading biomedical engineering entity, with major intellectual property and capabilities in implantable devices, arthroplasties and tissue regeneration. Top-end professional users, who want more choices, have driven our product range to enormous and exciting heights. Striving for excellence and meeting customer needs has led to our wide product range characterized by numerous unique and innovative products, which include:

- Multiple interfaces, both internal and external, to suit customer preference.
- The MAX, a wide-diameter implant specifically designed for molar tooth replacement.
- Co-axis, the only angled-top, screw-form implant.
- The 55° Zygomatic implant, optimized for load distribution.
- Many products optimized for primary stability and suitable for immediate loading.
- A surface which continues to outperform those which it is trialled against.

My sincere thanks to all specialists, dentists and technicians who give continual feedback, suggestions and input. Our products are an interpretation of your needs.

Graham Blackbeard
Managing Director, Southern Implants
The MSc range of External Hex Implants

External Hex is the most versatile connection system. It enables us to make very short implants, and highly angled implants, not possible with internal connections. It is also a “more forgiving” connection system, in the case of poor alignment. Hence Southern will continue to develop and support this range, as it is the choice of many training institutions, “top-end” users, and has an extremely wide range of prosthetic options.

MSc stands for Machined Surface coronally
Capturing the advantage of Southern’s proven rough surface where it is needed most, to prevent initial failures, and a coronally machined area, of specific surface roughness, to maintain bone in situations of bacterial onslaught.

Indication
Patients with higher risk of coronal bone loss (smokers, history of periodontitis, cardio-vascular disease)

The Range
All MSc External Hex tapered implants from range diameter 3.00mm through to the 9mm diameter MSc MAX implants. Included are the unique MSc Co-Axis implants of 12, 24 and 36 degrees, and implant lengths range from 6mm to 15mm.

Martines et al, JOI, 34:4, 2008
Showed that machined surface implants perform better (less bone loss) than roughened surface implants in cases of induced bacterial load.

Brånemark Clinic, Gothenburg
Rough surface implants decreased initial failure rates from 12.1% to 2.3% in the maxilla and from 4.7% to 2.2% in the mandible (Jemt EAO 2013)

For final restoration, Southern has 3 products with unique features that put them in a class of their own:

The Passive Abutment:
This product is built on the premise that impeccable fit to the implant (minimizing microgap) is of great importance for longevity of implant treatment. The best milled interfaces result in 15 to 50 micron microgaps.

Passive Abutments can be used with cast or milled abutments and structures, and reduce the microgap to less than 3 microns.

The CIA scanning Abutment:
This registered design has some unique contours, making it work with a wide variety of scanners and a wide variety of materials. The retaining screw pulls down on the abutment, and hence it can be used with lower strength restorative materials.

The CER-ZR Zirconia Abutment:
These abutments are milled in the “green state” and then post-ground to ensure an impeccable fit to the implant, of less than 3 microns. They come in a wide variety of diameters so that the crown can be designed with minimal unsupported porcelain.
MSc-IP Piccolo Implant

Cover Screw
SCP-2

Healing Abutments
<table>
<thead>
<tr>
<th>TPN</th>
<th>TPW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø3.0</td>
<td>Ø4.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Implants are pre-mounted and available in lengths of:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
</tr>
<tr>
<td>--------</td>
</tr>
<tr>
<td>8.5</td>
</tr>
<tr>
<td>10</td>
</tr>
<tr>
<td>11.5</td>
</tr>
<tr>
<td>13</td>
</tr>
<tr>
<td>15</td>
</tr>
</tbody>
</table>

(Unit: mm)

MSc-IP Site Preparation Sequence

<table>
<thead>
<tr>
<th>D-RB-MS</th>
<th>D-12T</th>
<th>D-20T Soft Bone Optional</th>
<th>D-30TP-13</th>
<th>MSc-IP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>13</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pilot</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>1.2mm</td>
<td>2mm</td>
<td>Final</td>
<td>Final</td>
<td>Final</td>
</tr>
</tbody>
</table>

(Illustration is for a 13mm implant)
The MSc Piccolo Implant

This implant has been developed for use in narrow spaces, such as replacement of congenitally missing lateral incisors and lower central incisors where 3.25mm diameter implants are too wide.

This configuration is made possible with the use of high-strength titanium. Giving 30% greater fatigue strength than the standard grade 4 commercially pure titanium.

The 3mm diameter platform and M1.6mm prosthetics screw are not well-suited for use with cantilevers and high load applications.

The unique passive abutment is also available for the MSc Piccolo implant.

This product is built on the premise that the impeccable fit to the implant (minimizing microgap) is of great importance for longevity of implant treatment. The best milled interface results in 15 to 50 micron microgaps.

Passive Abutments can be used with cast or milled abutments and structures, and reduce the microgap to less than 3 microns.
**MSc-IBNT Implant**

**Cover Screw**

SCNU2

**Healing Abutments**

<table>
<thead>
<tr>
<th>TBN</th>
<th>WBN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø3.6</td>
<td>Ø4.5</td>
</tr>
</tbody>
</table>

2/3/4/6/8 lengths

3.0mm Machined

Surface Enhanced


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

<table>
<thead>
<tr>
<th>Length</th>
<th>Tapered</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.5</td>
<td>MSc-IBNT-8.5</td>
</tr>
<tr>
<td>10</td>
<td>MSc-IBNT-10</td>
</tr>
<tr>
<td>11.5</td>
<td>MSc-IBNT-11.5</td>
</tr>
<tr>
<td>13</td>
<td>MSc-IBNT-13</td>
</tr>
<tr>
<td>15</td>
<td>MSc-IBNT-15</td>
</tr>
</tbody>
</table>

(Unit: mm)

**MSc-IBNT Site Preparation Sequence**

<table>
<thead>
<tr>
<th>D-RB-MS</th>
<th>D-12T</th>
<th>D-20T</th>
<th>D-34TP-13</th>
<th>D-TAP-IBNT Optional</th>
<th>MSc-IBNT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

I.D. 1.2mm 2mm Final Tap (I.D. is for a 13mm implant)
MSc-IBNT Prosthetic Flowchart

Healing Abutments  Impression Copings  Laboratory Analougues  Prosthetic Components  Retaining Screws

Direct

MSc-IBNT Narrow Ø3.6

GPNU Pick-up

OR

L5TN12

2 / 3 / 5

Titanium

影响

TITANIUM Abutments

GRN 2 / 3 / 5

2 / 1 / 5 / 6

Titanium

PASSIVE Abutment

OR

2 Series Screws

OR

SBN15 (Engaging)

2 Series Screws

PASSIVE Abutment

SBN16 (Engaging)

Titanium

SCANNING Abutment

SBN16 (Engaging)

Titanium

CMEDJUN (Engaging)

DM

SBN15 (Nons-Engaging)

Titanium

DBN5012

2 Series Screws

Retaining Screws

2 Series Screws

1 Series Screws

Compact Conical Abutment

ABMKZ

1 / 2 / 3 / 4 / 5

OR

ABMK17D

TSU20  OSU20

Titanium Screws

Optional Gold Screw and Nut

Compact Conical Abutment

HMC

4 alloy metal

CMC2 Transfer

OR

HMC17Y

4 alloy metal

CMC1 Pickup

OR

LMC1

PMC1

OR

PMC1

GW1

OR

TMC

Titanium 1 / 5

FMG-C48

Passive Abutment

The Standard Abutment range is still available. Please refer to Data Sheet for further information.

07
MSc-IBT Implant

Cover Screw
SCU2

Healing Abutments
<table>
<thead>
<tr>
<th>TB</th>
<th>WB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø4.5</td>
<td>Ø5.5</td>
</tr>
</tbody>
</table>

2/3/4/5/6/8 lengths
Also available in Two-Part

Implants are pre-mounted and available in lengths of:

<table>
<thead>
<tr>
<th>Length</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>MSc-IBT-6</td>
</tr>
<tr>
<td>8.5</td>
<td>MSc-IBT-8.5</td>
</tr>
<tr>
<td>10</td>
<td>MSc-IBT-10</td>
</tr>
<tr>
<td>11.5</td>
<td>MSc-IBT-11.5</td>
</tr>
<tr>
<td>13</td>
<td>MSc-IBT-13</td>
</tr>
<tr>
<td>15</td>
<td>MSc-IBT-15</td>
</tr>
</tbody>
</table>

(Unit: mm)

MSc-IBT Site Preparation Sequence

D-RB-MS  D-12T  D-20T  D-40TP-13  D-TAP-IBT  MSc-IBT

Pilot  1.2mm  2mm  Final  Tap

(Illustration is for a 13mm implant)
MSc-IBT Prosthetic Flowchart

These components can also be used when platform shifting MSc-BAT implants.

### Healing Abutments
- SCL2
- MSu-IBT
- Direct

### Impression Copings
- T16 (engaging) 14B (non-engage)
- WS (pre-fit) T16 (prefit)
- WS S13

### Laboratory Analogues
- CBZ Transfer
- CBZ-W Pickup
- CBZ Pickup

### Prosthetic Components
- UCLA
- OR
- OR
- OR
- OR
- OR
- OR

#### Retention Screws
- 2 Series Screws
- 3 Series Screws
- 3 Series Screws

#### TITANIUM Abutments
- CBZ
- OR
- OR

#### CERAMIC Abutments
- CBZ
- OR
- OR

#### PASSIVE Abutment
- Uses 2 Series Screws

#### SCANNING Abutment
- Uses 3 Series Screws

#### Vertical Components
- TVB Pickup
- LS12

#### Compact Conical Abutment
- AMC2
- AMC-TLS or AMC264

- OR

#### Overdenture Abutment
- AOI

### The Standard Abutment and Conical ranges are still available. Please refer to Data Sheets for further information.
MSc-BAT Implant

Cover Screw

SCAUS

Healing Abutments

<table>
<thead>
<tr>
<th>TBA</th>
<th>XBA</th>
<th>WBA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø5.5</td>
<td>Ø6.5</td>
<td>Ø7.5</td>
</tr>
</tbody>
</table>

Also available in Two-Part

Diameter Ø5.0mm Implant and Components

![Diagram of Ø5.0mm implant]

![Diagram of healing abutments]

![Diagram of cover screw]

MSc-BAT Implant are pre-mounted and available in lengths of:

<table>
<thead>
<tr>
<th>Length</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>MSc-BAT-6</td>
</tr>
<tr>
<td>8.5</td>
<td>MSc-BAT-8.5</td>
</tr>
<tr>
<td>10</td>
<td>MSc-BAT-10</td>
</tr>
<tr>
<td>11.5</td>
<td>MSc-BAT-11.5</td>
</tr>
<tr>
<td>13</td>
<td>MSc-BAT-13</td>
</tr>
<tr>
<td>15</td>
<td>MSc-BAT-15</td>
</tr>
</tbody>
</table>

(Unit: mm)

MSc-BAT Site Preparation Sequence

![Diagram of site preparation sequence]

(Illustration is for a 13mm implant)
The Standard Abutment and Conical ranges are still available. Please refer to Data Sheets for further information.
The MSc Externally Hexed Co-Axis™ range

The Co-Axis implant is indicated for use in situations where the long axis of a conventional implant would not coincide with the long axis of the restoration and would therefore result in a restorative compromise.

The most common example of this is encountered where an implant is placed in the anterior maxilla at a labially inclined angle, as dictated by the anatomy of the alveolus, resulting in the screw access hole of the prosthetic crown passing through the labial face of the crown. The Co-Axis implant effectively solves this problem by having the prosthetic platform and screw hole of the implant tilted at an angle of 12, 24 or 36 degrees to the long axis of the implant. The axis of the retaining screw is therefore also offset within the body of the implant.

The Co-Axis concept can be applied to solve many other situations where inclined placement of implants is either unavoidable or even an advantage. For example where avoidance of anatomical structures dictates (eg: maxillary sinus, mental foramen) or where bony anatomy can be maximised by inclined placement of an implant.

An elegant and truly innovative solution to a frequent problem in implant dentistry.

- The EX HEX Co-Axis solution greatly simplifies the restorative treatment of an inclined implant by eliminating the need for angle correcting abutments or custom abutments. This reduces the number and cost of components required, reduces the complexity and cost of laboratory work, as well as the number of patient visits required.

- Screw retained restorations can be used instead of cemented restorations, making immediate loading protocols routinely available.

- Aesthetic advantages result from having no need for labially placed screw access holes.

- Avoidance of anatomical structures by inclined implant placement, without incurring prosthetic complications, is made possible by exploiting the Co-Axis concept.

- The EX HEX Co-Axis implant allows for maximal utilisation of available bone anatomy.

- The tapered EX HEX Co-Axis implant provides an anatomically correct implant for ideal use in the anterior Maxilla.

- The Co-Axis implant results in considerably more mid-facial soft tissue.
# MSc-IBT12d Co-Axis™ Implant

## Cover Screw

**SCU2**

## Healing Abutments

<table>
<thead>
<tr>
<th></th>
<th>TB</th>
<th>WB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø4.5</td>
<td>Ø5.5</td>
<td></td>
</tr>
</tbody>
</table>

2/3/4/5/6/8 lengths

Also available in Two-Part

---

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

<table>
<thead>
<tr>
<th>Length</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.5</td>
<td>MSc-IBT12d-8.5</td>
</tr>
<tr>
<td>10</td>
<td>MSc-IBT12d-10</td>
</tr>
<tr>
<td>11.5</td>
<td>MSc-IBT12d-11.5</td>
</tr>
<tr>
<td>13</td>
<td>MSc-IBT12d-13</td>
</tr>
<tr>
<td>15</td>
<td>MSc-IBT12d-15</td>
</tr>
</tbody>
</table>

(Unit: mm)

---

## MSc-IBT12d Additional Instrumentation

**Bone Mills**

- I-BM-57
- I-BM-67

**Direction Indicators**

- I-DIN-12d

**Direction Indicators - Tapered**

- I-DI12d-4T-10
- I-DI12d-4T-13
- I-DI12d-4T-15

---

## MSc-IBT12d Site Preparation Sequence

<table>
<thead>
<tr>
<th>Tool</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-RB-MS</td>
<td>12mm</td>
</tr>
<tr>
<td>D-12T</td>
<td>13</td>
</tr>
<tr>
<td>D-20T</td>
<td>13</td>
</tr>
<tr>
<td>D-40TP-13</td>
<td>13</td>
</tr>
<tr>
<td>D-CSS-M</td>
<td>13</td>
</tr>
<tr>
<td>D-TAP-IBT</td>
<td>13</td>
</tr>
<tr>
<td>MSc-IBT12d</td>
<td>13</td>
</tr>
</tbody>
</table>

**Pilot** 1.2mm  **2mm**  **Final**  **Counter-sink**  **Tap**
MSc-IBT12d Prosthetic Flowchart. These components can also be used when platform shifting MSc-BAT12d implants.

Prosthetic Components

- **UCD**: OR
- **GB**: OR
- **Titanium**: OR
- **Chrome Coated**: OR
- **PMMA**: OR

Retention Screws

- **2 Series Z Screws**
- **3 Series Z Screws**

CERAMIC Abutments

- **SRH** (Engaging)
- **SRH-17** (Non-Engaging)

PASSIVE Abutment

- **SRH-16** (Engaging)
- **SRH-17/17** (Non-Engaging)

SCANNING Abutment

- **SRH** (Engaging)
- **SRH-17/17** (Non-Engaging)

Vertical Components

- **TVKB**: OR
- **LSB**: OR

Compact Conical Abutment

- **ANCO**: OR

Overdenture Abutment

- **GMX**: OR

NOTE: The IBT12d product range MUST be used with "Z" range shortened screw prosthetics. The angled head results in a shallower screw site and if used, the longer screw prosthetics will not seat correctly, and could lead to fractured screws.

The Standard Abutment and Conical ranges are still available. Please refer to Data Sheets for further information.
MSc-BAT12d Co-Axis™ Implants

**Cover Screw**

SCAU5

**Healing Abutments**

<table>
<thead>
<tr>
<th>TBA</th>
<th>XBA</th>
<th>WBA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø5.5</td>
<td>Ø6.5</td>
<td>Ø7.5</td>
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</tbody>
</table>

2/3/4/6/8 lengths

Also available in Two-Part

Implants are pre-mounted and available in lengths of:

<table>
<thead>
<tr>
<th>Length</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>MSc-BAT12d-10</td>
</tr>
<tr>
<td>11.5</td>
<td>MSc-BAT12d-11.5</td>
</tr>
<tr>
<td>13</td>
<td>MSc-BAT12d-13</td>
</tr>
<tr>
<td>15</td>
<td>MSc-BAT12d-15</td>
</tr>
</tbody>
</table>

(Unit: mm)

**MSc-BAT12d Additional Instrumentation**

**Bone Mills**

I-BAM-62
I-BAM-77

**Direction Indicators**

I-DIN-12d

**Direction Indicators - Tapered**

I-DI-12d

I-DI12d-ST-10
I-DI12d-ST-13
I-DI12d-ST-15

**MSc-BAT12d Site Preparation Sequence**

<table>
<thead>
<tr>
<th>D-RB-MS</th>
<th>D-12T</th>
<th>D-20T</th>
<th>D-50TP-13</th>
<th>D-TAP-BAT</th>
<th>MSc-BAT12d</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pilot</td>
<td>1.2mm</td>
<td>2mm</td>
<td>Final</td>
<td>Tap</td>
<td>Msc-BAT12d</td>
</tr>
</tbody>
</table>

(Illustration is for a 13mm implant)
The Standard Abutment and Conical ranges are still available. Please refer to Data Sheets for further information.
MSc-BAT24d & MSc-BAT36d Co-Axis™ Implant

Cover Screw
SCU2

Healing Abutments

<table>
<thead>
<tr>
<th>TB</th>
<th>WB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø4.5</td>
<td>Ø5.5</td>
</tr>
</tbody>
</table>

2/3/4/6/8/10 lengths
Also available in Two-Part

Implants are pre-mounted and available in lengths of:

<table>
<thead>
<tr>
<th>Length (Unit: mm)</th>
<th>Code</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>MSc-BAT24d-10</td>
<td>MSc-BAT36d-10</td>
</tr>
<tr>
<td>11.5</td>
<td>MSc-BAT24d-11.5</td>
<td>MSc-BAT36d-11.5</td>
</tr>
<tr>
<td>13</td>
<td>MSc-BAT24d-13</td>
<td>MSc-BAT36d-13</td>
</tr>
<tr>
<td>15</td>
<td>MSc-BAT24d-15</td>
<td>MSc-BAT36d-15</td>
</tr>
</tbody>
</table>

Direction Indicators

I-DIN-24d
I-DIN-36d
I-DI-24d
I-DI-36d

Final Tapered Drill Position

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.

MSc-BAT24d / 36d Site Preparation Sequence

D-RB-MS
D-12T
D-20T
D-50TP-13
D-52TP-13 (hard bone)
D-CSS-5
D-TAP-BAT
MSc-BAT24d
MSc-BAT36d

Pilot 1.2mm
Final 2mm
Counter-sink 13
Tap 13

(Illustration is for a 13mm implant)
MSc-BAT24d & MSc-BAT36d Prosthetic Flowchart

Healing | Impression | Laboratory | Prosthetic | Retention

Abutments | Copings | Analogues | Components | Screws

SCU2

Direct

MSc-BAT24d

MSc-BAT36d

SCU2

TS (one-part) T33 (two-part)

CBU

Pickup

Direct

LS12

TITANIUM Abutments

UCLA

OR

OR

OR

OR

Plasto

Grab

Titanium

Chrome Cobalt

PEEK

2 Series Z Screws

CERAMIC Abutments

OR

OR

OR

OR

SBC4 (Engaging)

SBC4 (Non-Engaging)

PASSIVE Abutment

Uses 2 Berlins Z Screws

2 Series Z Screws

Vertical Components

TVA8

CBV

Pickup

LS12

3 Series Z Screws

Compact Conical Abutment

HMC

HMC1 Transfer

LSMC1

PMC1

OR

GM1

OR

TMC

PM1

OR

GM1

OR

TMC

TMC1

OR

GM1

OR

TMC

PAM/Cab

1 Series Screws

Overdenture Abutment

ORZ

PC1

Plastic

A02

Bress

1 Series Screws

NOTE: The MSc-BAT24 & 36d product range MUST be used with "Z" range shortened screw prosthetics. The angled head results in a shallower screw site and if used, the longer screw prosthetics will not seat correctly, and could lead to fractured screws.

The Standard Abutment and Conical ranges are still available. Please refer to Data Sheets for further information.
The MSc Externally Hexed MAX Implant Range

The immediate placement of a conventional dental implant into a molar extraction socket poses a number of difficulties. Most significantly, the size and shape of the multi-rooted socket is not suited for the optimal placement of a typical implant, often resulting in compromised implant positioning, poor primary stability or the inability to place an implant at all.

This may result in a waiting period of 3-4 months to allow for healing before attempting to place an implant. Often, the healed site presents with reduced bone height, resulting in the need for bone augmentation procedures, especially in the maxilla. This leads to further lengthening of treatment time with increased cost and complexity.

An alternative approach has been to place a 6mm diameter implant into one socket of such a multi-rooted site, typically the palatal socket. Problems associated with this approach include adverse bio-mechanical forces, a poor emergence profile and an unavoidable buccal overhang of the restoration.

The concept of the MSc-MAX implant design provides for an implant and a surgical protocol, which makes immediate placement of the implant into a multi-rooted molar socket attainable, thus obviating the multiple problems highlighted.

The MSc-MAX implant features a body with a larger than conventional diameter, achieving primary stability from engagement of the buttresses of bone that protrude from the perimeter bony wall of the molar socket.

The greater taper of the MSc-MAX implant body allows for maximum engagement of the inter-radicular bone within the molar socket.

In the case of a molar tooth with tapering root form, the implant has a natural fit to the socket shape. The tapered geometry of the implant facilitates excellent primary stability.

The MAX implant Design won an AO presentation award for innovation in 2008, the SABS Design Excellence Award in 2010, and was the first FDA approved dental implant for the immediate placement into a molar socket.
MSc-MAX-6 Implant

Cover Screw
SCU2

Healing Abutments
TB     WB
Ø4.5   Ø5.5

2/3/4/6/8
lengths

Also available in Two-Part

Implants are pre-mounted and available in lengths of:

<table>
<thead>
<tr>
<th>Length</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>MSc-MAX-6-6</td>
</tr>
<tr>
<td>7</td>
<td>MSc-MAX-6-7</td>
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<tr>
<td>9</td>
<td>MSc-MAX-6-9</td>
</tr>
<tr>
<td>11</td>
<td>MSc-MAX-6-11</td>
</tr>
</tbody>
</table>

(Unit: mm)

MSc-MAX-6 Drills & Additional Instrumentation

Dedicated Drills
D-MAX6-6
D-MAX6-7
D-MAX6-9
D-MAX6-11

Dedicated Taps
D-TAP-MAX6-6
D-TAP-MAX6-7
D-TAP-MAX6-9
D-TAP-MAX6-11

MSc-MAX-6 Site Preparation Sequence

<table>
<thead>
<tr>
<th>D-RB-MS</th>
<th>D-12T</th>
<th>D-20T</th>
<th>D-30T</th>
<th>D-MAX6-11</th>
<th>D-TAP-MAX6-11</th>
<th>MSc-MAX-6</th>
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<tbody>
<tr>
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<td>11</td>
<td>11</td>
<td>11</td>
<td>11</td>
<td>11</td>
</tr>
</tbody>
</table>

(Pilot 1.2mm  2mm  3mm  Final  Tap)

(Illustration is for a 11mm implant)
The Standard Abutment and Conical ranges are still available. Please refer to Data Sheets for further information.
**MSc-MAX-7 Implant**

**Cover Screw**

SCAU5

**Healing Abutments**

<table>
<thead>
<tr>
<th>TBA</th>
<th>XBA</th>
<th>WBA</th>
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</thead>
<tbody>
<tr>
<td>Ø5.5</td>
<td>Ø6.5</td>
<td>Ø7.5</td>
</tr>
</tbody>
</table>

2/3/4/6/8 lengths

Also available in Two-Part

**Diameter 7.0mm Implants used with Diameter 5.0mm Components**

**MSc-MAX-7 Drills & Additional Instrumentation**

**Dedicated Drills**

- D-70TP-7
- D-70TP-9
- D-70TP-11
- D-70TP-11-L
  - (Longer Shaft Length)

**Dedicated Taps**

- D-TAP-MAX-7
- D-TAP-MAX-9
- D-TAP-MAX-11

**Profile Gauges**

- MAX-7-PG-7
- MAX-7-PG-9
- MAX-7-PG-11

**MSc-MAX-7 Site Preparation Sequence**

<table>
<thead>
<tr>
<th>D-RB-MS</th>
<th>D-12T</th>
<th>D-20T</th>
<th>D-30T</th>
<th>D-60TP-10</th>
<th>D-70TP-11</th>
<th>D-TAP-MAX-11</th>
<th>MSc-MAX-7</th>
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</thead>
<tbody>
<tr>
<td>Pilot</td>
<td>1.2mm</td>
<td>2mm</td>
<td>3mm</td>
<td>6mm Tapered</td>
<td>Final</td>
<td>Tap</td>
<td></td>
</tr>
</tbody>
</table>

(Illustration is for a 11mm implant)
MSc-MAX-7 Prosthetic Flowchart

Healing Abutments
- Stainless Steel
- Titanium

Impression Laboratory
- Copings
- Analogues

Prosthetic Components
- UCLA
  - Plastic
  - Gold
  - Titanium
  - Ceramic
  - Passive
  - Scanning

Retention Screws
- 2 Series Screws
- 3 Series Screws
- 1 Series Screws

Compact Conical Abutment
- AHMAC2
  - 1/2/3/4/5.5

Overdenture Abutment
- OBA
  - 3/4/5

The Standard Abutment and Conical ranges are still available. Please refer to Data Sheets for further information.
MSc-MAX-8 Implant

Cover Screw
SCU6

Healing Abutments
TBBB  WBBB

<table>
<thead>
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<th>Diameter</th>
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<td>Ø6.5</td>
<td>2/3/4/6</td>
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<tr>
<td>Ø7.5</td>
<td>2/3/4/6</td>
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Also available in Two-Part

Implants are pre-mounted and available in lengths of:

<table>
<thead>
<tr>
<th>Length</th>
<th>Code</th>
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<tbody>
<tr>
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<td>9</td>
<td>MSc-MAX-8-9</td>
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<tr>
<td>11</td>
<td>MSc-MAX-8-11</td>
</tr>
</tbody>
</table>

(Unit: mm)

MSc-MAX-8 Drills & Additional Instrumentation

Dedicated Drills
D-80TP-7
D-80TP-9
D-80TP-11
D-80TP-7-L
D-80TP-9-L
D-80TP-11-L
(Longer Shaft Length)

Dedicated Taps
D-TAP-MAX8-7
D-TAP-MAX8-9
D-TAP-MAX8-11

Profile Gauges
MAX-8-PG-7
MAX-8-PG-9
MAX-8-PG-11

MSc-MAX-8 Site Preparation Sequence

D-RB-MS  D-12T  D-20T  D-30T  D-60TP-10  D-80TP-11  D-TAP-MAX8-11  MSc-MAX-8

Earlier revisions of the MAX drills are 2.4mm longer than the implant. These can easily be identified by the lazer marking on the body of the drill. Current drills are marked on the shank.
MSc-MAX-8 Prosthetic Flowchart

- Healing Abutments
- ImpressionCopings
- Laboratory Analogues
- Prosthetic Components
- Retention Screws

Compact Conical Abutment
- ABBBMCZ
- ABBBMC 30°-4
- or ABBBMC 17°-3

1 / 2 / 3

TRUZU or ZU2

The Standard Abutment and Conical ranges are still available. Please refer to Data Sheets for further information.
MSc-MAX-9 Implant

**Cover Screw**

SC7

**Healing Abutments**

TB9MAX

4 / 5 / 6 / 7 lengths
Also available in Two-Part

Diameter 9.0mm Implants used with Diameter 7.0mm Components

<table>
<thead>
<tr>
<th>Implants are pre-mounted and available in lengths of:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
</tr>
<tr>
<td>--------</td>
</tr>
<tr>
<td>7</td>
</tr>
<tr>
<td>9</td>
</tr>
<tr>
<td>11</td>
</tr>
</tbody>
</table>

(Unit: mm)

**MSc-MAX-9 Drills & Additional Instrumentation**

**Dedicated Drills**

D-90TP-7
D-90TP-9
D-90TP-11
D-90TP-7L
D-90TP-9L
D-90TP-11-L
(Longer Shaft Length)

**Dedicated Taps**

D-TAP-MAX9-7
D-TAP-MAX9-9
D-TAP-MAX9-11

**Profile Gauges**

MAX-9-PC-7
MAX-9-PG-9
MAX-9-PG-11

**MSc-MAX-9 Site Preparation Sequence**

D-RB-MS  D-12T  D-20T  D-30T  D-60TP-10  D-90TP-11  D-TAP-MAX9-11  MSc-MAX-9

Pilot  1.2mm  2mm  3mm  6mm Tapered  Final  Tap

Earlier revisions of the MSc-MAX drills are 2.4mm longer than the implant. These can easily be identified by the laser marking on the body of the drill. Current drills are marked on the shank.
MSc-MAX-9 Prosthetic Flowchart

Healing Abutments
- SC7
- Direct
- MSc-MAX-9

Impression Copings
- CMAX9 Pickup
- TBIMAX (Engaging)
- TMAX9 (Direct)
- 4/15.2/17

Laboratory Analougues
- CMAX9 Pickup (long)
- LMIX9

Prosthetic Components
- TCMAX9.7 (Engaging)
- TCMAX9.7 (Non-Engaging)
- GCMAX.70 (Engaging)
- GCMAX.70 (Non-Engaging)
- SCMAX9 (Engaging)
- SCMAX9 (Non-Engaging)
- Titanium
- Gold
- Passive Abutment

Retention Screws
- 2 Series Screws
Southern Implants Screws

Retaining Screws

1 Series
Gold
- Slotted - GSS1
- Unigrip - GSU1
- Hex - GSH1

2 Series
Gold
- Slotted - GSS2
- Unigrip - GSU2
- Quad - GSQ2

2 Series Z
Gold
- Slotted - GSSZ2
- Unigrip - GSUZ2
- Quad - GSQZ2

3 Series
Gold
- Slotted - GSS3
- Unigrip - GSU3
- Quad - GSQ3

3 Series Z
Gold
- Slotted - GSSZ3
- Unigrip - GSUZ3
- Quad - GSQZ3

9 Series
Gold
- Slotted - GSS9
- Unigrip - GSU9

9 Series Z
Gold
- Slotted - GSSZ9
- Unigrip - GSUZ9

Titanium
- Slotted - TSS1
- Unigrip - TSU1
- Hex - TSH1

- Slotted - TSS2
- Unigrip - TSU2
- Hex - TSH2

- Slotted - TSS3
- Unigrip - TSU3
- Hex - TSH3

- Slotted - TSSZ2
- Unigrip - TSUZ2
- Hex - TSHZ2

- Slotted - TSS3
- Unigrip - TSU3
- Hex - TSH3

- Slotted - TSSZ3
- Unigrip - TSUZ3
- Hex - TSHZ3

NOTE: Always ensure that the correct screw is used for the relevant implant and component to avoid complications.

The innovative designs of our angled implants require a shorter length screw. In addition, certain cylinders and abutments require varied screw head diameters and design, therefore the need for 2, 3, 9 and Z Series screws.

Blackened Brass
Laboratory Screws - (Lab use only)

1 Series
- Slotted - BSS1
- Hex - BSH1

2 Series
- Slotted - BSS2
- Hex - BSH2

3 Series
- Slotted - BSS3
- Hex - BSH3

Series 1 Screws (M1.4)
10-15Ncm
Head Diameter 2.25mm

Series 2 & 2Z Screws (M2)
32-40Ncm
Head Diameter 2.70mm

Series 3 & 3Z Screws (M2)
32-40Ncm
Head Diameter 2.40mm

Series 9 & 9Z Screws (M2)
15-20Ncm
Head Diameter 2.50mm
Special head for use with Angled Compact Conical Abutments

..S = Slotted Connection
..U = Unigrip Connection
..H = Hexed Connection
..Q = Quad Connection
G.. = Gold Alloy
T.. = Gr. 5 Titanium Alloy
B.. = Brass

Screw Code Nomenclature

<table>
<thead>
<tr>
<th>T</th>
<th>Titanium</th>
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<tr>
<td>S</td>
<td>Screw</td>
</tr>
<tr>
<td>U</td>
<td>Unigrip</td>
</tr>
<tr>
<td>Z</td>
<td>Z Series</td>
</tr>
<tr>
<td>2</td>
<td>Series 2 (screw head Ø2.70)</td>
</tr>
</tbody>
</table>
I-EXT-HEX-EG For surgical placement of MSc EX HEX Implant.
(for Cleaning & Sterilization instructions see CAT-1039)

The surgical tray is made from highly shock-resistant plastic materials that are suitable for autoclave sterilization. The material is certified for over 1000 sterilization cycles.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-RB-MS</td>
<td>Round Burr</td>
<td></td>
</tr>
<tr>
<td>D-20T</td>
<td>Ø2.0 Twist Drill</td>
<td>Ø5.0 x 6mm, Tapered Drill</td>
</tr>
<tr>
<td>D-CB</td>
<td>Counter Bore</td>
<td>Ø5.0 x 8.5mm, Tapered Drill</td>
</tr>
<tr>
<td>D-28T</td>
<td>Ø2.85 Twist Drill</td>
<td>Ø5.0 x 10mm, Tapered Drill</td>
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<tr>
<td>D-30T</td>
<td>Ø3.07 Twist Drill</td>
<td>Ø5.0 x 11.5mm, Tapered Drill</td>
</tr>
<tr>
<td>D-33T</td>
<td>Ø3.25 Twist Drill</td>
<td>Ø5.0 x 13mm, Tapered Drill</td>
</tr>
<tr>
<td>D-43T</td>
<td>Ø4.3 Twist Drill</td>
<td>Ø5.0 x 15mm, Tapered Drill</td>
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<tr>
<td>D-53T</td>
<td>Ø5.3 Twist Drill</td>
<td>Ø5.0 x 15mm, Tapered Drill</td>
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<tr>
<td>D-TAP-IBN</td>
<td>Ø3.25 Tap, Straight</td>
<td>Ø6.0 x 6mm, Tapered Drill</td>
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<tr>
<td>D-TAP-IBS</td>
<td>Ø3.75 Tap, Straight</td>
<td>Ø6.0 x 8.5mm, Tapered Drill</td>
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<tr>
<td>D-TAP-IBH</td>
<td>Ø4.9 Tap, Straight</td>
<td>Ø6.0 x 10mm, Tapered Drill</td>
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<tr>
<td>D-TAP-BA</td>
<td>Ø5.0 Tap, Straight</td>
<td>Ø6.0 x 11.5mm, Tapered Drill</td>
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<tr>
<td>D-TAP-BBBS</td>
<td>Ø6.0 Tap, Straight</td>
<td>Ø6.0 x 13mm, Tapered Drill</td>
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<tr>
<td>D-25T</td>
<td>Ø2.5 Twist Drill</td>
<td>Ø6.0 x 15mm, Tapered Drill</td>
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<td>D-35T</td>
<td>Ø3.5 Twist Drill</td>
<td>Ø6.0 x 15mm, Tapered Drill</td>
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<td>D-40T</td>
<td>Ø4.0 Twist Drill</td>
<td>Ø6.0 x 15mm, Tapered Drill</td>
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<td>D-46T</td>
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<td>Ø6.0 x 15mm, Tapered Drill</td>
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<td>D-50T</td>
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<td>Ø6.0 x 15mm, Tapered Drill</td>
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<td>D-56T</td>
<td>Ø5.6 Twist Drill</td>
<td>Ø6.0 x 15mm, Tapered Drill</td>
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<td>D-34TP-8.5</td>
<td>Ø3.4 x 8.5mm, Tapered Drill</td>
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<tr>
<td>D-34TP-10</td>
<td>Ø3.4 x 10mm, Tapered Drill</td>
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<td>D-34TP-11.5</td>
<td>Ø3.4 x 11.5mm, Tapered Drill</td>
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<tr>
<td>D-34TP-13</td>
<td>Ø3.6 x 13mm, Tapered Drill</td>
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<td>D-34TP-15</td>
<td>Ø3.6 x 15mm, Tapered Drill</td>
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<tr>
<td>D-TAP-IBNT</td>
<td>Ø3.25 Tap, Tapered</td>
<td>I-RATCHET-2</td>
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<td>D-40TP-6</td>
<td>Ø4.0 x 6mm, Tapered Drill</td>
<td>I-SP-X</td>
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<tr>
<td>D-40TP-8.5</td>
<td>Ø4.0 x 8.5mm, Tapered Drill</td>
<td>I-HHD-22S/M/L</td>
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<tr>
<td>D-40TP-10</td>
<td>Ø4.0 x 10mm, Tapered Drill</td>
<td>I-WI-22S/M/L</td>
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<td>Ø4.0 x 11.5mm, Tapered Drill</td>
<td>I-HD-S/M/L</td>
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<td>D-40TP-13</td>
<td>Ø4.0 x 13mm, Tapered Drill</td>
<td>I-BD-S/M/L</td>
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<td>D-40TP-15</td>
<td>Ø4.0 x 15mm, Tapered Drill</td>
<td>I-CS-HD</td>
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**I-MAX-EG** For surgical placement of MSc-MAX Implant.
(for Cleaning & Sterilization instructions see CAT-1039)

The surgical tray is made from highly shock-resistant plastic materials that are suitable for autoclave sterilization. The material is certified for over 1000 sterilization cycles.

<table>
<thead>
<tr>
<th>No.</th>
<th>Item Code</th>
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<th>Code</th>
<th>Description</th>
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<td>D-20T</td>
<td>Ø2.0 Twist Drill</td>
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<td>D-30T</td>
<td>Ø3.0 Twist Drill</td>
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<td>D-60TP-6</td>
<td>Ø6.0 x 6mm, Tapered Drill</td>
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<td>Ø6.0 x 10mm, Tapered Drill</td>
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<td>7</td>
<td>D-70TP-7</td>
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<td>Ø7.0 x 11mm, Tapered Drill</td>
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<td>D-80TP-7</td>
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<td>16</td>
<td>D-TAP-MAX-7-7</td>
<td>Ø7.0 x 7mm Tao, Tapered</td>
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<td>17</td>
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<td>Ø7.0 x 9mm Tao, Tapered</td>
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<td>D-TAP-MAX-7-11</td>
<td>Ø7.0 x 11mm Tap, Tapered</td>
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<tr>
<td>19</td>
<td>D-TAP-MAX-8-7</td>
<td>Ø8.0 x 7mm Tao, Tapered</td>
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<tr>
<td>20</td>
<td>D-TAP-MAX-8-9</td>
<td>Ø8.0 x 9mm Tao, Tapered</td>
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<tr>
<td>21</td>
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<td>Ø8.0 x 11mm Tap, Tapered</td>
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<tr>
<td>22</td>
<td>D-TAP-MAX-9-7</td>
<td>Ø9.0 x 7mm Tao, Tapered</td>
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<tr>
<td>23</td>
<td>D-TAP-MAX-9-9</td>
<td>Ø9.0 x 9mm Tao, Tapered</td>
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<td>24</td>
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<tr>
<td>25</td>
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<td>Ø7.0 x 7mm, Profile Gauge</td>
<td></td>
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<tr>
<td>26</td>
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<td>27</td>
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<tr>
<td>29</td>
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<td>Ø8.0 x 9mm, Profile Gauge</td>
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<td>30</td>
<td>MAX-8-PG-11</td>
<td>Ø8.0 x 11mm, Profile Gauge</td>
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<td>31</td>
<td>MAX-9-PG-7</td>
<td>Ø9.0 x 7mm, Profile Gauge</td>
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<td>MAX-9-PG-9</td>
<td>Ø9.0 x 9mm, Profile Gauge</td>
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<td>33</td>
<td>MAX-9-PG-11</td>
<td>Ø9.0 x 11mm, Profile Gauge</td>
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<tr>
<td>34</td>
<td>I-WI-CS/L</td>
<td>Converter from Handpiece to Wrench</td>
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<tr>
<td>35</td>
<td>I-DE-MN</td>
<td>Drill Extension</td>
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<td>36</td>
<td>I-FME-XS/M/L</td>
<td>Fixture Mount Extension</td>
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<td>37</td>
<td>I-CON-X/XS</td>
<td>Connector to Handpiece</td>
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<td>38</td>
<td>I-DI</td>
<td>Direction Indicator</td>
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<td>39</td>
<td>MAX-ROD</td>
<td>Rod for Profile Gauge</td>
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<td>I-RATCHET-2</td>
<td>Ratchet Wrench</td>
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<td>41</td>
<td>I-SP-X</td>
<td>Flat Spanner</td>
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<td>42</td>
<td>I-HHD-S/M/L</td>
<td>Handpiece Hex Driver</td>
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<td>43</td>
<td>I-WI-22S/M/L</td>
<td>Wrench, Insert Hex Driver</td>
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<tr>
<td>44</td>
<td>I-HD-S/M/L</td>
<td>Hand Held Hex Driver</td>
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<tr>
<td>45</td>
<td>I-BD-S/M/L</td>
<td>Hand Held Blade Driver</td>
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<tr>
<td>46</td>
<td>I-CS-HD</td>
<td>Hand Held, Cover Screw, Hex Driver</td>
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</table>
Please Note:
This instrumentation tray is to be “customised by the user” to be suitable for use with the preferred implant system and its prosthetic needs, therefore no pre-determined layout information available.

Basic Layout Information:

1. Dedicated space for torque wrench.

2. Allocated space suitable for drivers (i.e. Hand Held, Handpiece Inserts and Torque Wrench Inserts).


4. Small stainless steel dish for “used items” (also suitable for keeping the I-FM-H Fixture Mount Holder).

5. Allocated space for additional items (I-HAD Handpiece Abutment Driver, I-WI-A Abutment Driver for Torque Wrench).
Precision Attachments

Ball Attachments & Clips

Ø2.25mm

ZZBA 128A C
Removable male PalMax
Pre-castable ball

ZZBA 128C
Pre-castable ball

ZZBA 12810

Analogue

Ø2.25mm OR OR OR OR
M2

ZZ18 RA0063
Base ring for direct casting or soldering
(Precious Alloys Only)

Ø3.1mm

TP2 OR OR OR
M2

TP2-S OR M1.4

TP1 OR OR M1.4

TPA1 OR M1.4

TPA2 OR M1.4

PP2 OR

BP2 OR

PC1 OR

PCW1 OR

Analogue

Analogue

Analogue

Analogue

Bars

Preci Horix Bars (Original Hader Product) Ø1.8mm

ZZBA 17048

Plastic

ZZBA 1703B

Spacer

ZZBA 1706B

Housing

ZZBA 1106

Gold

GDC1

Normal Retention

Reduced Retention

Increased Retention

Round Bars

Ø2.0mm OR OR Ø1.8mm
Plastic

Gold

GD1

ZZBA 1802B

ZZBA 1805B

ZZBA 1809B

Inox

Inox

Inox

Gold

Gold

Gold
Explanation of symbols

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

1. **Manufacturer**
2. **Colour code indicating platform diameter**
3. **Implant image**
4. **Implant details and size**
5. **Sterilization using irradiation**
   - Do not Resterilize
   - Consult instruction for use
   - Do not reuse
   - Caution
   - CE mark and notified body number
   - Use by mm-yy
6. **Barcode and **LOT** Batch code**
   - Contains the product code.
7. **Sticker and **LOT** Batch code**
   - For documentation purpose.
8. **Prescription device**
   - CAUTION: FEDERAL LAW RESTRICTS THE DEVICE TO SALE BY THE ORDER OF A LICENCED HEALTH CARE PROVIDER.

Platform diameters

- Ø3.0
- Ø6.0
- Ø3.4
- Ø4.0
- Ø5.0

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