The IMZ® Implant System

IMZ Original

The original IMZ implant was manufactured in two diameters – 3.3mm and 4.0mm. The internal thread of the 3.3mm implant is 2.3mm and the 4.0mm implant has a 3.0mm internal thread. The external implant body is either titanium plasma sprayed or HA coated with hydroxalappetite. The IMZ implant body is no longer sold, however, IMZ restorative components, such as the IME, IMC, and UMA are still available from Attachments International.

IMZ Hex Head - Branemark RP Compatible

The IMZ Hex Head implant also manufactured in two diameters – 3.3mm and 4.0mm was added in 1991. Both are restoratively compatible with the Branemark Regular Platform implant. For restorative compatible components refer to the Branemark section of this manual.

Compatible components made by Attachments International are available for:

<table>
<thead>
<tr>
<th>IMZ Original 3.3 &amp; 4.0 non-hex</th>
<th>Restoratively Compatible To</th>
</tr>
</thead>
<tbody>
<tr>
<td>none</td>
<td>Branemark®, Regular Platform 4.1</td>
</tr>
<tr>
<td>IMZ Hex Head 3.3 &amp; 4.0 external hex</td>
<td>3i Minimplant® &amp; Standard Osseotite®</td>
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<tr>
<td>IMZ Hex Head 3.3 &amp; 4.0 external hex</td>
<td>Implamed® RP</td>
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<tr>
<td>IMZ Hex Head 3.3 &amp; 4.0 external hex</td>
<td>Innova Entegra® 3.25 &amp; 4.0</td>
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<td>IMZ Hex Head 3.3 &amp; 4.0 external hex</td>
<td>REMark-ST RP</td>
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<tr>
<td>IMZ Hex Head 3.3 &amp; 4.0 external hex</td>
<td>Steri-Oss® Hex-Loc 3.8 &amp; 4.5</td>
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<td>IMZ Hex Head 3.3 &amp; 4.0 external hex</td>
<td>Restore® RD &amp; Sustain® RD</td>
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<tr>
<td>IMZ Hex Head 3.3 &amp; 4.0 external hex</td>
<td>Taper-Lock®</td>
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The IMZ Implant System was developed in Germany by Dr. Axel Kirsch in the early 1970’s. IMZ is the only major implant system using a shock absorbing intermobile element designed to simulate the periodontal ligament. Two types of implants were made—the IMZ Original non-hex and the IMZ Hex Head external hex (Branemark RP compatible).

- IMZ Original 3.3 & 4.0 non-hex
- IMZ Hex Head 3.3 & 4.0 external hex
Terminology of Components

Restorative Components:
For ease in selecting components, the Branemark Section is divided by Restoration Connection:

- **Direct To The Implant** — or —
- **Indirect To An Intermediate Component (Tissue Extensions/Abutments)**

Overdenture Attachments, Bar Systems, Indirect Individual Parts and Tools are found following in the Indirect Section. NEW: 7 IMZ REFERENCE CHARTS are found at end of this section to illustrate the complex relationship of the IMZ - IME - IMC components.

The **Direct Restorative Components** are the elements used to fabricate a restoration that will be connected directly to the implant(s).

The **Indirect / Intermediate Restorative Components** fit to an intermediate tissue extension (abutment) which in turn is connected to the implant(s).

Implant Body:
The implant body is surgically placed into the bone. One surgical method traditionally involved a two-stage surgery, leaving the implant unloaded in the bone to allow for osseointegration, followed by tissue surgery to uncover the implant before the restorative components are added. Another method, called Immediate Loading, is a one-stage surgery where the abutment and restoration are attached to the implant at the time of implant placement.

Intermediate Connector / Tissue Extension / IME / TIE:
The TE (Tissue Extension) is the intermediate connector between the implant and the restoration, it may extend above the tissue. In some instances, a TE extension is subgingival, to provide a more esthetic restoration.
The original IMZ tissue extension was the plastic IME (Inter Mobile Element) with the metal TIE.

Implant Standardization:
The UMA tissue extension was developed to standardize the components and instruments for many different implant allowing for an economical inventory and for simplicity of restorative procedures. Its tapered/hexagon fitting surface is identical, regardless of the size or type of implant employed, while its screw-in base is implant specific.

Compatibility:

<table>
<thead>
<tr>
<th>Implants</th>
<th>Restoratively Compatible To</th>
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