The Branemark implant was developed in the early 1950’s by Professor Par-Ingvar Branemark. Professor Branemark was the first to discover the osseointegration aspect of titanium during his research of bone healing in animals. Currently, Branemark implants, sold by Nobel Biocare of Zurich, Switzerland, are available in three separate platforms:

Original Branemark, Branemark MK III & MK IV and NobelSpeedy Groovy Implants:
- Branemark 3.3mm diameter - Narrow Platform (NP) 3.5
- Branemark 3.75 & 4.0mm diameter - Regular Platform (RP) 4.1
- Branemark 5.0 & 5.5mm diameter - Wide Platform (WP) 5.1

*New implants* have been added to the Nobel Biocare / Branemark line. The new external hex implants are available in the same 3 platforms (NP, RP & WP) as the original Branemark and are restoratively compatible. When ordering components always specify whether implant has external hex or internal connection as the new implant names from Nobel Biocare have similar names for both connections.

Many other implant companies make implants that are restoratively compatible with the Branemark Regular Platform external hex implant. These companies include: OIC, 3i, Implamed, Zimmer, Interpore, Innova and Steri-Oss. These implants can use the same restorative components, as the implant platform, hex and internal threads are identical.

The most widely used concept for bridge or single tooth replacement is the UCLA system. It is economical and has the widest range of application possibilities. For overdenture applications, the ORS (O-Ring System), the DDB (Direct Dalla Bona), the adjustable gold rider with bar, and the Hader or Hader-EDS system are most frequently used.

Components made by Attachments International are available for:

<table>
<thead>
<tr>
<th>Implants (<em>see paragraph above</em>)</th>
<th>Restoratively Compatible To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Branemark NP 3.3 external hex - 3.5 Platform</td>
<td>Implamed NP</td>
</tr>
<tr>
<td>Branemark MK III Groovy</td>
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<tr>
<td>NobelSpeedy Groovy</td>
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<tr>
<td>Branemark MK IV</td>
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<tr>
<td>Branemark WP 5.0 &amp; 5.5 external hex - 5.1 Platform</td>
<td>Implamed WP</td>
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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)**.

Overtendure Attachments, Bar Systems, Indirect Individual Parts and Tools are found following in the Indirect Section.

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:**
The TE (Tissue Extension) also referred to as an abutment, 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 aesthetic restoration.

Abutment Systems for Branemark Part 1 include: UMA, Multi-Use, Standard Abutment (SA) and HexCone (Estheticone).

Abutment Systems for Select Part 2 include: PME

Abutment Systems for Steri-Oss Part 3 include:
- For Original Steri-Oss Non-Hex implant: UMA
- For Steri-Oss Hex-Loc SD implant: none
- For Steri-Oss Replace External Hex implant: none

**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.

**Implant Compatibility:**
Refer to the introduction page of Branemark, Select or Steri-Oss for implant compatibility information.