The implant of choice brings flexibility to your practice.
TAPERED SCREW-VENT IMPLANT CELEBRATES 11 YEARS OF QUALITY

Celebrating the clinical outcomes of the original Tapered Screw-Vent Implant with MTX® Surface.

Documented prospective clinical survival rates for 1,553 MTX-Textured Tapered Screw-Vent Implants:

- Implant survival rate mean 98.7% (range from 95.1% to 100%)
- Follow-up times range from 3 to 120 months (mean = 36.4 months)
Numerous other short-term (<5 years) studies have further documented the quality and performance of Tapered Screw-Vent Implants under immediate and delayed placement, as well as immediate and delayed loading. Individual results may vary according to patient selection and clinical experience.
Each of Zimmer’s crestal configurations is designed for crestal bone and tissue maintenance. Zimmer Dental Implant Systems are designed for use in the maxilla or mandible for immediate loading or for loading after a conventional healing period. Implants may be used to replace one or multiple missing teeth. Immediate loading is indicated when there is good primary stability and an appropriate occlusal load.

<table>
<thead>
<tr>
<th>Tapered Screw-Vent Model Number</th>
<th>TSV-MTX</th>
<th>TSV-HA</th>
<th>TSVM</th>
<th>TSVT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Coronal Features</strong></td>
<td>1mm Machined Collar with MTX Surface</td>
<td>1mm Machined Collar with MTX Surface</td>
<td>0.5mm Machined Collar, MTX Surface and 1.8mm crestal Microgrooves</td>
<td>Full MTX Surface and 1.8mm crestal Microgrooves</td>
</tr>
<tr>
<td><strong>Diameter</strong></td>
<td>3.7, 4.1, 4.7, 6.0mmD</td>
<td>3.7, 4.1, 4.7, 6.0mmD</td>
<td>3.7, 4.1, 4.7, 6.0mmD</td>
<td>3.7, 4.1, 4.7, 6.0mmD</td>
</tr>
<tr>
<td><strong>Length</strong></td>
<td>8, 10, 11.5, 13, 16mm</td>
<td>8, 10, 11.5, 13, 16mm</td>
<td>8, 10, 11.5, 13, 16mm</td>
<td>8, 10, 11.5, 13, 16mm</td>
</tr>
<tr>
<td><strong>Platform Diameter</strong></td>
<td>3.5, 4.5, 5.7mmD</td>
<td>3.5, 4.5, 5.7mmD</td>
<td>3.5, 4.5, 5.7mmD</td>
<td>3.5, 4.5, 5.7mmD</td>
</tr>
<tr>
<td><strong>Surface</strong></td>
<td>MTX</td>
<td>MP-1 HA/MTX</td>
<td>MTX</td>
<td>MTX</td>
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<tr>
<td><strong>Threads</strong></td>
<td>Triple-lead</td>
<td>Triple-lead</td>
<td>Triple-lead</td>
<td>Triple-lead</td>
</tr>
<tr>
<td><strong>Connection</strong></td>
<td>Internal Hex 2.5, 3.0mmD</td>
<td>Internal Hex 2.5, 3.0mmD</td>
<td>Internal Hex 2.5, 3.0mmD</td>
<td>Internal Hex 2.5, 3.0mmD</td>
</tr>
<tr>
<td><strong>Surgical Kit</strong></td>
<td>Zimmer Instrument Kit System</td>
<td>Zimmer Instrument Kit System</td>
<td>Zimmer Instrument Kit System</td>
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</tr>
<tr>
<td><strong>Restorative</strong></td>
<td>Zimmer Prosthetics</td>
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</tr>
<tr>
<td><strong>Indications</strong></td>
<td>Immediate Load Anterior/Posterior</td>
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</tbody>
</table>
TAPERED SCREW-VENT IMPLANT BODY

Designed for primary stability, the tapered titanium alloy body provides the strength of traditional dental implants.\(^{14}\)

PLATFORM PLUS™ TECHNOLOGY

The proprietary internal hex connection, utilized with Zimmer Dental’s friction-fit abutments, has been documented to shield crestal bone from concentrated occlusal forces.\(^{16,20}\)

SCREW-VENT DESIGN

Apical cutting threads designed for immediate cutting impact.
1. **MTX SURFACE FOR ONGROWTH**
   The MTX Microtextured Surface has been documented to achieve high levels of bone-to-implant contact, or ongrowth.\(^{21, 22}\)

2. **CRESTAL OPTIONS FOR BONE-LEVEL MAINTENANCE**
   The coronal microgrooves are designed to preserve crestal bone.\(^{23}\)
   
   Three coronal surface configurations are available:
   - 1.0mm Machined Collar (Model TSV, with MTX Surface shown above right)
   - 0.5mm Machined with MTX Crestal Microgrooves (Model TSVM, shown above)
   - Full MTX Microtexturing with MTX Crestal Microgrooves (Model TSVT, shown to left)
Primary stability achieved by using *Tapered Screw-Vent* Implants enables immediate placement and/or immediate loading in appropriately selected patients.\(^{13, 15-18}\)

- The triple lead threads provide mechanical stability for immediate placements.
  - The lead of a triple-lead thread is three times as large as the lead of the standard single-lead thread; therefore *Tapered Screw-Vent* Implants can be inserted with one third the number of turns of an implant with a single-lead thread.
  - The pitch and the bone contacting surface area of the dense thread pattern is maintained the same as that of a single-lead thread because three adjacent threads run down the implant.

- Soft bone surgical protocol enables bone compression and provides additional stability in poor quality sites.\(^{19}\)
  - In the soft bone surgical protocol, a straight and somewhat undersized osteotomy is prepared to help enhance initial stability of the implant through lateral bone compression.

- In dense bone, the stepped finishing drill enables apical bone engagement for initial stability.\(^{19}\)
  - The dense bone protocol prepares a slightly larger, stepped osteotomy design to help improve initial engagement.

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### Average Max Insertion Torque (Ncm)

<table>
<thead>
<tr>
<th>Implant Model</th>
<th>Average Max Insertion Torque (Ncm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tapered Screw-Vent Implant 4.7 x 13mm</td>
<td>119.9</td>
</tr>
<tr>
<td>NobelActive™ Implant 5.0 x 13mm</td>
<td>93.0</td>
</tr>
<tr>
<td>NobelReplace® Implant 5.0 x 13mm</td>
<td>89.5</td>
</tr>
<tr>
<td>Straumann® Bone Level Implant 4.8 x 12mm</td>
<td>60.5</td>
</tr>
</tbody>
</table>

Data on file with Zimmer Dental Inc.
The Platform Plus Technology difference—what no other implant can offer.

- The internal hex creates a **friction-fit connection** that shields the crestal bone from occlusal force\(^{15, 21}\)
- The lead-in bevel connection **reduces horizontal stresses** better than flat “butt-joint” connections\(^{15, 21-22}\)
- The 1.5mm deep internal hex **distributes bite force** deep into the implant\(^{15, 21-22}\)
- The internal connection is designed to **ensure ease of use** in restoration:
  - The lead-in bevel offers assuredness in abutment orientation, providing a positive seating during placement
References:


All Tapered Screw-Vent Implants are compatible with the Zimmer Instrument Kit System and prosthetics you know and trust.

- Color-coded workflow designed to enhance efficiency and confidence during surgery
- No new instrumentation or training required to introduce a new crestal option*
- Simplified restorative instrumentation supports compatibility and minimizes stocking inventory across systems (models TSV, TSVM, TSVT)

* Applies to current Tapered Screw-Vent Implant users, proficient in all surgical and restorative protocols.