Success Stories in Stability and Survival Rates
TAPERED SCREW-VENT IMPLANT CELEBRATES 15 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)

![Graph showing implant survival rates over different follow-up times](image-url)
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.\textsuperscript{16} Individual results may vary according to patient selection and clinical experience.
TAPERED IMPLANT BODY
Designed for primary stability, the tapered titanium alloy body provides the strength of traditional dental implants.⁴
(Model TSVT, shown)

MTX SURFACE FOR ONGROWTH
The MTX Microtextured Surface has been documented to achieve high levels of bone-to-implant contact, or ongrowth.²¹,²²

SCREW-VENT DESIGN
Apical cutting threads designed for immediate cutting impact.
The proprietary internal hex connection, utilized with Zimmer Dental’s friction-fit abutments, has been documented to shield crestal bone from concentrated occlusal forces.19, 20

Zimmer’s MP-1® HA coating with up to 97% crystalline HA content is significantly higher than other commercial HA coatings.24

The coronal microgrooves are designed to preserve crestal bone.23

Three coronal surface configurations are available:

- 1.0mm Machined Collar (Model TSV)
- 0.5mm Machined with MTX Crestal Microgrooves (Model TSVM)
- Full MTX Microtexturing with MTX Crestal Microgrooves (Model TSVT)
The Platform Plus Technology difference

- The internal hex creates a friction-fit connection that shields the crestal bone from occlusal force\textsuperscript{15, 21}

- The lead-in bevel connection reduces horizontal stresses better than flat “butt-joint” connections\textsuperscript{15, 21-22}

- The 1.5mm deep internal hex distributes bite force deep into the implant\textsuperscript{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
Primary stability achieved by using *Tapered Screw-Vent* Implants enables immediate placement and/or immediate loading in appropriately selected patients.\(^{13,15-18}\)

![Graph showing insertion torque comparison](image)

- The triple lead threads are designed to achieve intimate bone contact at implant placement.\(^{18}\)
  - 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.

- **Soft bone surgical protocol** enables bone compression and provides additional stability in poor quality sites.\(^{18}\)
  - 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.\(^{18}\)
  - The dense bone protocol prepares a slightly larger, stepped osteotomy design to help improve initial engagement.
TOTAL SYSTEM COMPATIBILITY

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*
- Compatibility of restorative instrumentation across implants (models TSV, TSVM, TSVT)

* Applies to current Tapered Screw-Vent Implant users, proficient in all surgical and restorative protocols.
Each of Zimmer’s implants and 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.

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**Tapered Screw-Vent**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Coronal Features</th>
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<th>Platform Diameter</th>
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<td>TSV</td>
<td>1mm Machined Collar with MTX Surface</td>
<td>3.7, 4.1, 4.7, 6.0mmD</td>
<td>8, 10, 11.5, 13, 16mm</td>
<td>3.5, 4.5, 5.7mmD</td>
<td>MTX or MP-1 HA</td>
<td>Triple-lead</td>
<td>Internal Hex 2.5, 3.0mmD</td>
<td>Zimmer Instrument Kit System</td>
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<tr>
<td>TSVT</td>
<td>0.5mm Machined Collar, MTX Surface and 1.8mm crestal Microgrooves</td>
<td>3.7, 4.1, 4.7, 6.0mmD</td>
<td>8, 10, 11.5, 13, 16mm</td>
<td>3.5, 4.5, 5.7mmD</td>
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<td>TSVM</td>
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* Immediate loading is indicated when sufficient primary stability and appropriate occlusal loading are achieved.
REFERENCES

14 Data on file with Zimmer Dental Inc.