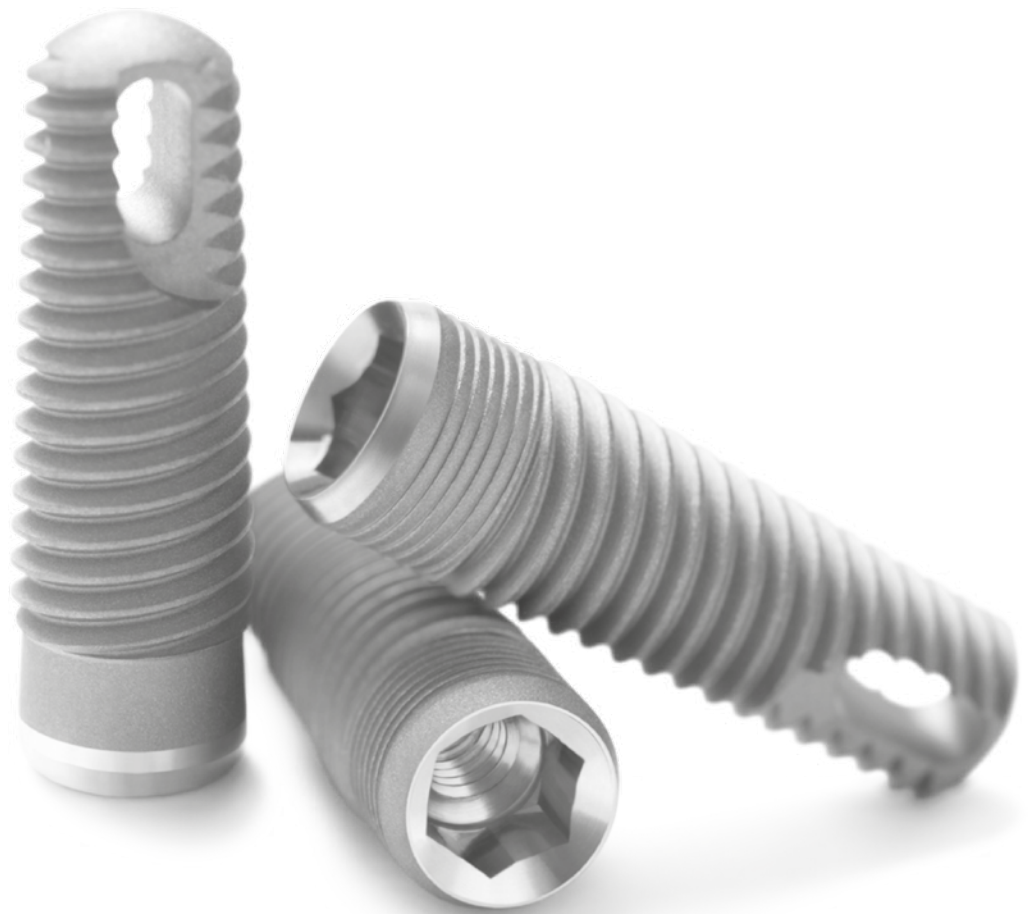


# Tapered Screw-Vent<sup>®</sup> Implant

A Legacy Of Performance



# TSV™ Implant Overview

Approaching 20 years of clinical use and over 5-million implants sold, the Tapered Screw-Vent (TSV) Implant has gained the trust of thousands of surgeons worldwide to deliver successful patient outcomes. This success is well documented with 130 peer-reviewed papers<sup>1</sup> and a 98.7% cumulative survival rate.<sup>1-14</sup>



## Screw-Vent Design

Apical cutting threads designed for immediate cutting impact.

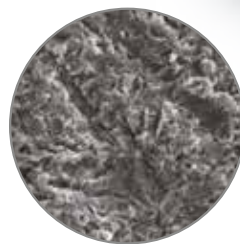
## Tapered Implant Body

Designed for primary stability, the tapered titanium alloy body provides strength for reliable function.<sup>1\*</sup> (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.<sup>16, 17</sup>

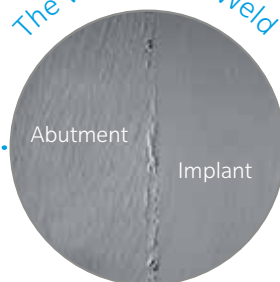


\*Data based on cyclic fatigue testing conducted on TSV Implants to 5 million cycles. Results of preclinical testing are not necessarily indicative of clinical performance.

The TSV Implant System is celebrated for its performance, having been designed to provide:

- Primary Stability<sup>7, 15, 18-20</sup>
- Secondary Stability<sup>2-14, 16, 17</sup>
- Crestal Bone Maintenance<sup>21-28</sup>
- Prosthetic Stability<sup>21, 22, 29</sup>
- Clinical Success<sup>2-14, 27, 28</sup>

### The Virtual Cold Weld



### Platform Plus™ Technology

The proprietary internal hex connection, utilized with Zimmer Biomet Dental's friction-fit abutments, has been documented to shield crestal bone from concentrated occlusal forces.<sup>21, 22</sup>

### Crestal Options for Bone-Level Maintenance

The coronal microgrooves are designed to preserve crestal bone.<sup>30</sup> Three coronal surface configurations are available:

- 1.0 mm Machined Collar (Model TSV)
- 0.5 mm Machined with MTX Crestal Microgrooves (Model TSVM)
- Full MTX Microtexturing with MTX Crestal Microgrooves (Model TSVT)

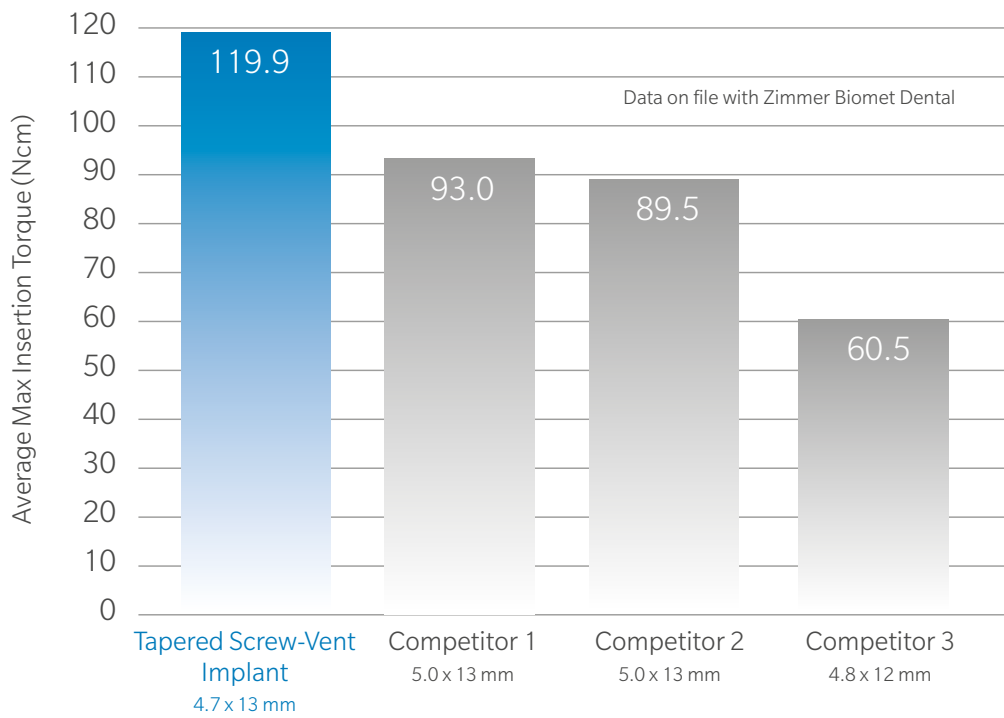


# Designed For Stability

## Primary Stability

Primary stability achieved by using Tapered Screw-Vent Implants enables immediate placement and/or immediate loading in appropriately selected patients.<sup>2,7,15</sup>

- The triple-lead threads are designed to achieve intimate bone contact at implant placement.<sup>15</sup>
- The soft-bone surgical protocol enables bone compression and provides additional stability in poor quality sites.<sup>15</sup>
- In dense bone, the stepped finishing drill enables apical bone engagement for initial stability.<sup>15</sup>



## Secondary Stability

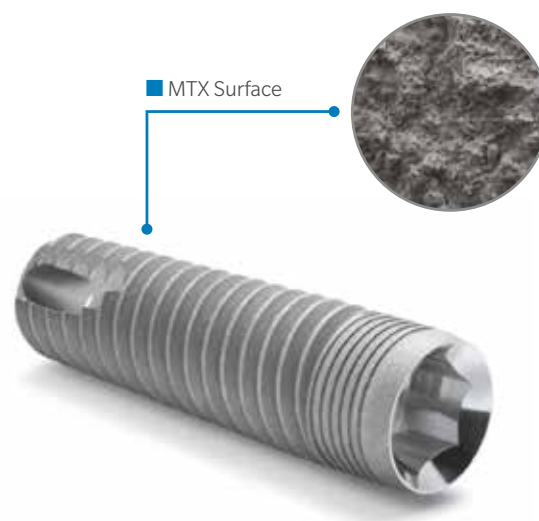
### Biocompatibility And Strength

- Tapered Screw-Vent Implants are made of grade 5 titanium alloy chosen for its biocompatibility<sup>31</sup> and strength.<sup>32-34</sup>
- Minimum tensile and yield strength requirements for this material, set by the American Society for Testing and Materials (ASTM) and the International Organization for Standardization (ISO), are 32% and 59% higher respectively than those of the strongest CP titanium available.<sup>32-34</sup>
- Zimmer Biomet Dental specifications require that the grade 5 titanium alloy used in Tapered Screw-Vent Implants meet or exceed the combined standards of ASTM and ISO.<sup>1</sup>



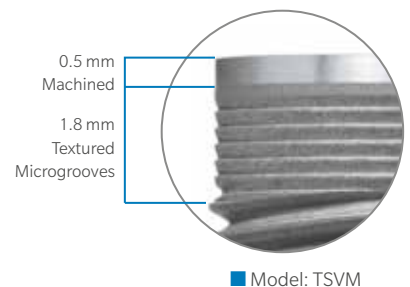
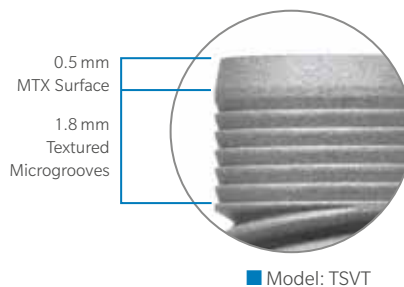
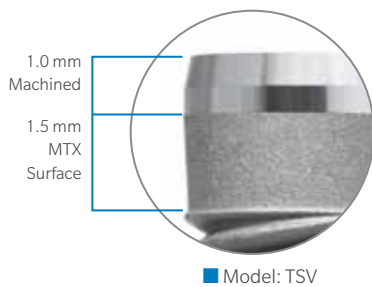
### Documented MTX Surface Advantages

- High degree of bone-to-implant contact (BIC) and osteoconductive capacity.<sup>16, 17</sup>
- Successful clinical results under conditions of immediate loading.<sup>2, 5, 7, 9-11</sup>
- Greater than 90% BIC as compared to 42-77% BIC achieved by TPS-coated, sandblasted and acid-etched, oxidized and HA-coated surfaces placed in grafted human sinuses.<sup>17</sup>



## Coronal Options

Tapered Screw-Vent Implants are offered with and without crestal microgrooves and machined collar or texturing to the top to maximize flexibility, tissue management and crestal bone maintenance in a variety of clinical conditions.<sup>14, 23-26, 30</sup> Configurations available on select implants are shown below.



## The Platform Plus™ Technology Difference

The proprietary Platform Plus Technology creates favorable conditions for crestal bone-level maintenance.<sup>21, 22</sup>

- The internal hex creates a friction-fit connection that shields the crestal bone from occlusal force<sup>21, 22</sup>
- The lead-in bevel connection reduces horizontal stresses better than flat “butt-joint” connections<sup>29</sup>
- The 1.5 mm deep internal hex distributes bite force deep into the implant<sup>21, 22, 29</sup>

Fig A: Proprietary friction-fit connection with lead-in bevel and virtual cold weld.

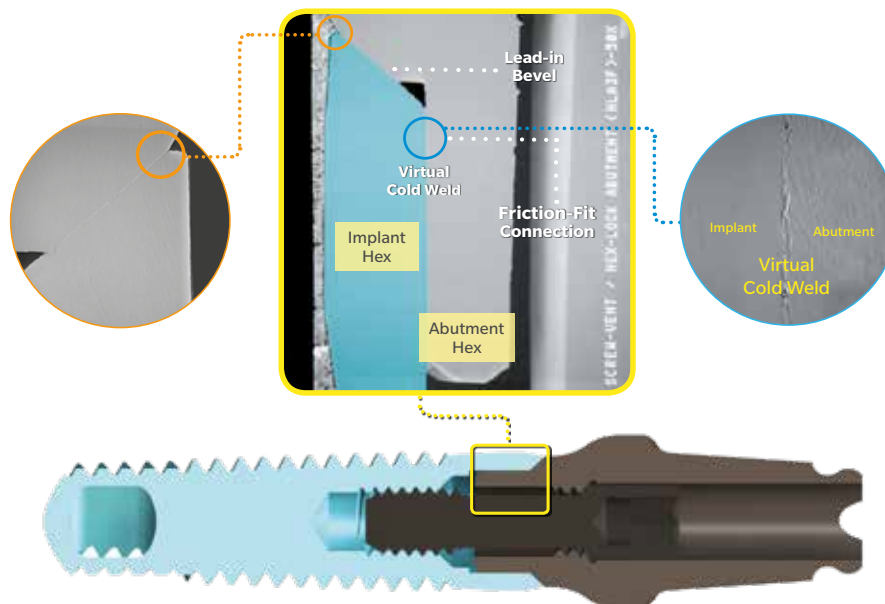


Fig. B: Higher magnification of unique beveled interface and full interface seal.

Fig C: Higher magnification of the virtual cold weld between the abutment and implant.

# Documented Clinical Success

## Celebrate the clinical outcomes of the original Tapered Screw-Vent Implant.

Documented Prospective Clinical Survival Rates  
For 1,553 Tapered Screw-Vent MTX Implants:<sup>1-14</sup>

- 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.<sup>1</sup>

Individual results may vary according to patient selection and clinical experience.



Final restoration.

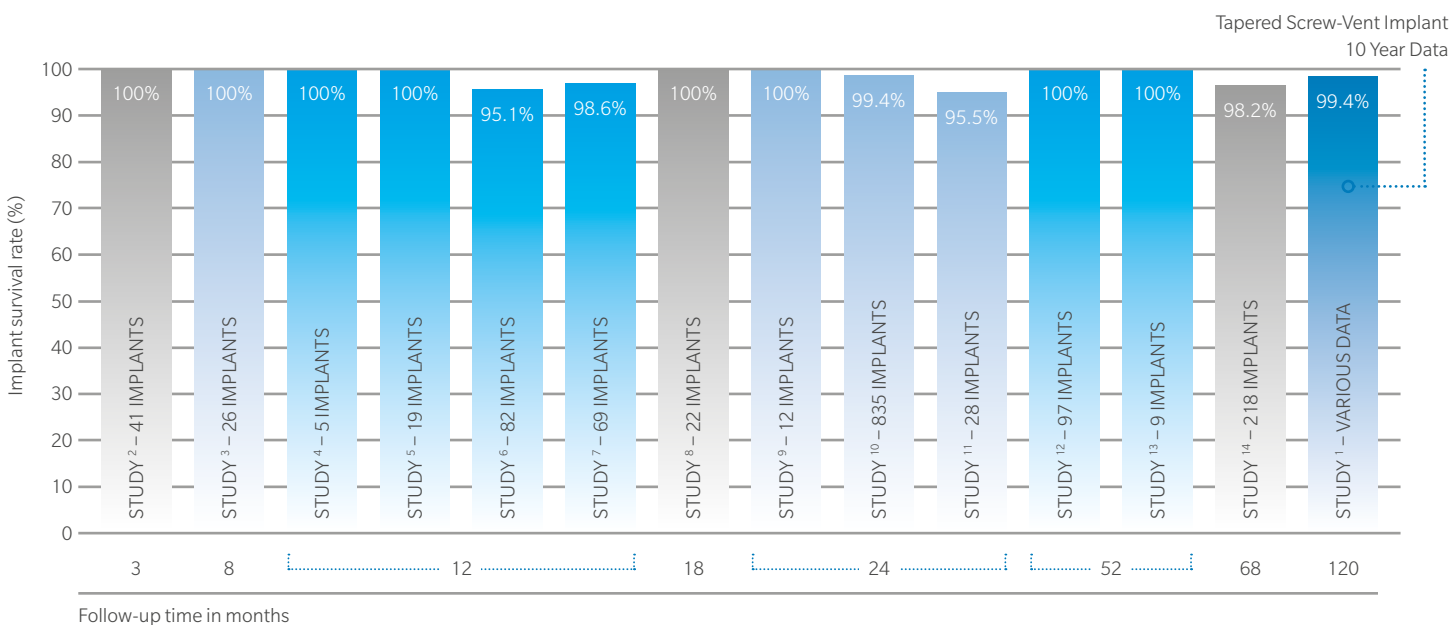


X-ray at time of final restoration.



10-year follow-up showed no bone loss.

Clinical photos ©2012 Daulton Keith, D.D.S., F.I.C.D. All rights reserved.



# Ordering Information



## TSV MTX: Tapered Screw-Vent Implants With MTX Surface

Includes Fixture Mount/Transfer and Cover Screw.



Implant Diameter	Implant Platform	Internal Hex Connection	Implant Length				
			8.0 mmL	10 mmL	11.5 mmL	13 mmL	16 mmL
3.7 mmD	● 3.5 mmD	2.5 mmD	TSVB8	TSVB10	TSVB11	TSVB13	TSVB16
4.1 mmD	● 3.5 mmD*	2.5 mmD	TSV4B8	TSV4B10	TSV4B11	TSV4B13	TSV4B16
4.7 mmD	● 4.5 mmD	2.5 mmD	TSVWB8	TSVWB10	TSVWB11	TSVWB13	TSVWB16
6.0 mmD	● 5.7 mmD	3.0 mmD	TSV6B8	TSV6B10	TSV6B11	TSV6B13	TSV6B16

## TSVM MTX: Tapered Screw-Vent Implants With 0.5 mm Machined Collar, MTX Surface And Microgrooves

Includes Fixture Mount/Transfer and Cover Screw.



Implant Diameter	Implant Platform	Internal Hex Connection	Implant Length				
			8.0 mmL	10 mmL	11.5 mmL	13 mmL	16 mmL
3.7 mmD	● 3.5 mmD	2.5 mmD	TSVMB8	TSVMB10	TSVMB11	TSVMB13	TSVMB16
4.1 mmD	● 3.5 mmD*	2.5 mmD	TSVM4B8	TSVM4B10	TSVM4B11	TSVM4B13	TSVM4B16
4.7 mmD	● 4.5 mmD	2.5 mmD	TSVMWB8	TSVMWB10	TSVMWB11	TSVMWB13	TSVMWB16
6.0 mmD	● 5.7 mmD	3.0 mmD	TSVM6B8	TSVM6B10	TSVM6B11	TSVM6B13	TSVM6B16

## TSVT MTX: Tapered Screw-Vent Implants With Full MTX Surface Texturing And Microgrooves

Includes Fixture Mount/Transfer and Cover Screw.



Implant Diameter	Implant Platform	Internal Hex Connection	Implant Length				
			8.0 mmL	10 mmL	11.5 mmL	13 mmL	16 mmL
3.7 mmD	● 3.5 mmD	2.5 mmD	TSVTB8	TSVTB10	TSVTB11	TSVTB13	TSVTB16
4.1 mmD	● 3.5 mmD*	2.5 mmD	TSVT4B8	TSVT4B10	TSVT4B11	TSVT4B13	TSVT4B16
4.7 mmD	● 4.5 mmD	2.5 mmD	TSVTWB8	TSVTWB10	TSVTWB11	TSVTWB13	TSVTWB16
6.0 mmD	● 5.7 mmD	3.0 mmD	TSVT6B8	TSVT6B10	TSVT6B11	TSVT6B13	TSVT6B16

## Surgical Cover Screws



Implant Platform	Item No.
● 3.5 mmD	TSC
● 4.5 mmD	TSCW
● 5.7 mmD	TSC5

\* While the implant platform color code for the 4.1 mmD Tapered Screw-Vent Implant is green, the implant surgical sequence is color-coded white on the surgical kit surface.





Part No: TSVKIT

### Instrument Kit System

From complete set-ups that include all instruments, to standalone instrument kits and a unique Staging Block, the Instrument Kit System is conveniently adaptable to your individual needs. Intuitive instrument organization and color-coding make the surgical sequence easy to learn and follow.



Part No: DSKIT

### Drill Stop Kit

The Drill Stop Kit includes a set of titanium, reusable drill stops designed to limit drilling depth from bone level during osteotomy preparation. Featuring a convenient “pick and go” stop application mechanism, this cost-efficient kit is designed to save chair time and increase clinician convenience. Drill Stops are only intended for use with [updated Dríva™ Drills \(marked with axial stripes\)](#).



Part No: GSMOD

### Guided Surgery Drill Module

This kit insert includes sixteen Dríva EG Drills and can be snapped into your Tapered Screw-Vent Surgical Kit to provide additional drills required for guided surgery.



Part No: TADKIT

### Tube Adapter Kit

Designed to fit in the tubes located inside model- and software-based surgical guides, these surgical instruments orient drills and provide positional and angular control.



Part No: NPMOD

### NP Surgical Module for Eztetic® Implants

This kit insert includes additional instrumentation required to place the 3.1 mmD Eztetic Implant which offers a narrow, powerful solution for demanding anterior spaces.

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