



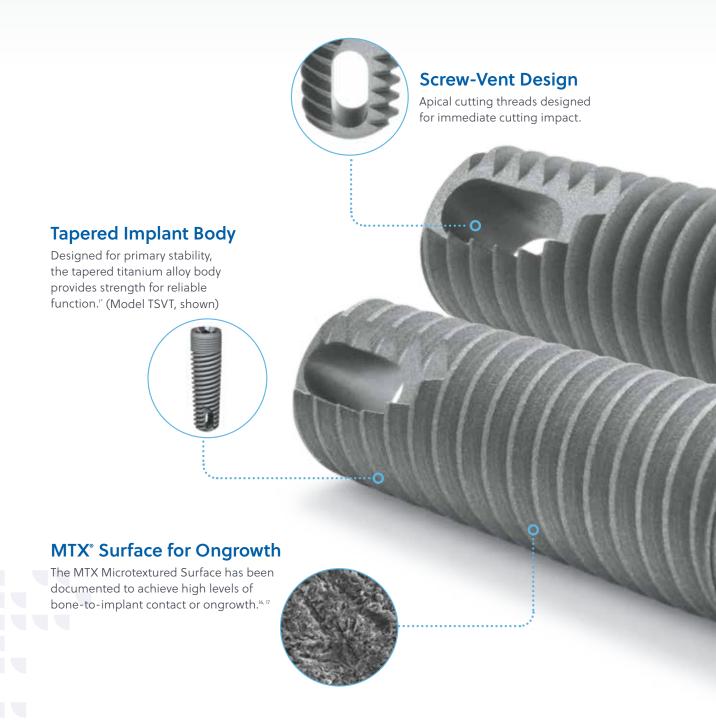




TSV[®] Implants Overview

With 20 years of clinical use and over six 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 papers¹ and a 98.7% cumulative survival rate.¹-¹4

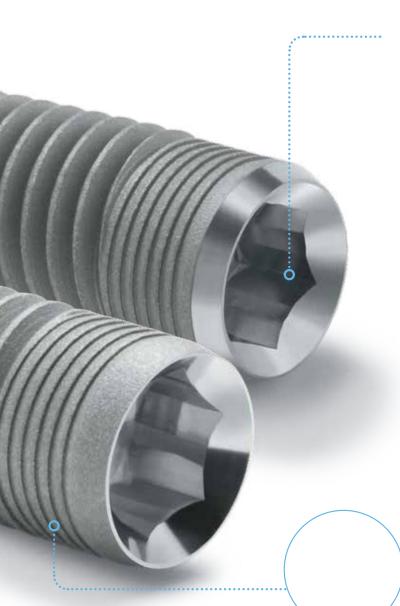


^{*}Data based on cyclic fatigue testing conducted on TSV Implants to 5 million cycles. Results of preclinical testing are not necessarily indicative of clinical performance.

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

- Primary Stability^{7, 15, 18-20}
- Secondary Stability^{2-14, 16, 17}
- Crestal Bone Maintenance²¹⁻²⁸

- Prosthetic Stability^{21, 22, 29}
- Clinical Success^{2-14, 27, 28}



The Virtual Cold No.

Platform Plus™ Technology

The proprietary internal hex connection, utilized with ZimVie Dental's Friction-Fit with Abutments, has been documented to shield crestal bone from concentrated occlusal forces.21,22

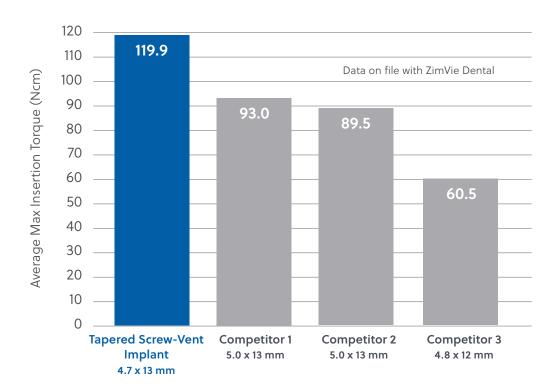
• 1.0 mm Machined Collar (Model TSV)

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.^{2,7,15}

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





Secondary Stability

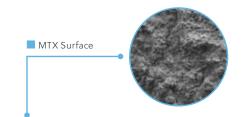
Biocompatibility and Strength

- Tapered Screw-Vent Implants are made of Grade 5 titanium alloy chosen for its biocompatibility³² and strength.³³⁻³⁵
- 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. 33-35
- ZimVie 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.1



Documented MTX Surface Advantages

- High degree of bone-to-implant contact (BIC) and osteoconductive capacity.16,17
- · Successful clinical results under conditions of immediate loading.^{2, 5, 7, 9-11}
- 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.17

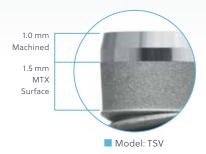




Designed for Flexibility

Coronal Options

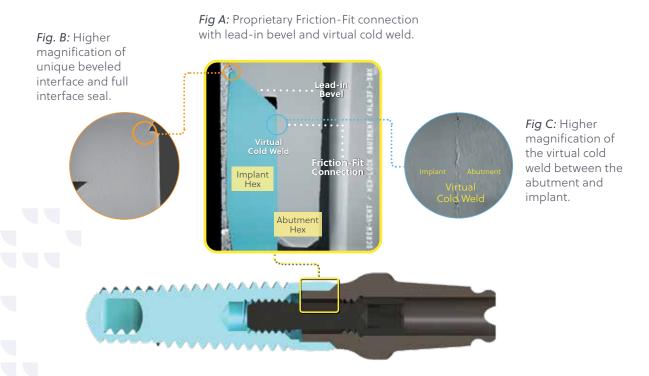
Tapered Screw-Vent Implants are offered with and without crestal microgrooves and machined collar or texturing to the top to maximize flexibility, tissue management, and crestal bone maintenance in a variety of clinical conditions.^{14,23-26,30} Configurations available on select implants are shown below.



The Platform Plus Technology Difference

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

- The internal hex creates a Friction-Fit connection that shields the crestal bone from occlusal
- The lead-in bevel connection reduces horizontal stresses better than flat "butt-joint" connections29
- The 1.5 mm deep internal hex distributes bite force deep into the implant^{21, 22, 29}





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:1-14

- 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.1

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



Final restoration.

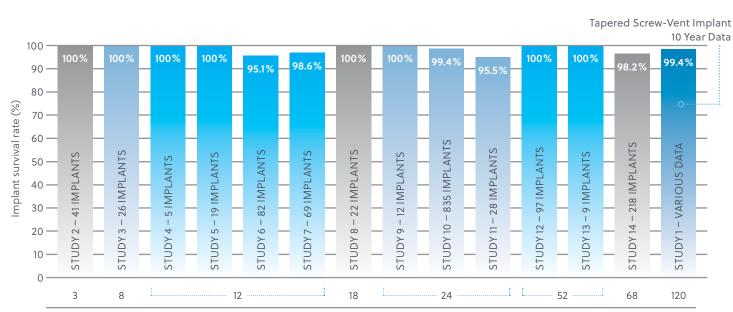


X-ray at time of final restoration.



10-year follow-up showed no bone loss.

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



Follow-up time in months

Ordering Information

TSVT MTX: Tapered Screw-Vent Implants with Full MTX Surface Texturing and Microgrooves Niet leverbaar in NL

Includes Fixture Mount/Transfer and Cover Screw

Implant	Implant Platform	Internal Hex Connection	Implant Length					
Diameter			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	

TSVM MTX: Tapered Screw-Vent Implants with 0.5 mm Machined Collar, MTX Surface, and Microgrooves Niet leverbaar in NL

Includes Fixture Mount/Transfer and Cover Screw

Implant	Implant Platform	Internal Hex Connection	Implant Length					
Diameter			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	

TSV MTX: Tapered Screw-Vent Implants with MTX Surface

Includes Fixture Mount/Transfer and Cover Screw

Implant	Implant	Internal Hex Connection	Implant Length					
Diameter	Platform		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	

Surgical Cover Screws

Impl	ant 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.

Surgical Instrumentation

Traditional and Guided Surgery



Part No: TSVKITG

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 colorcoding 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 Dríva™ Drills (Gold Series or Original, marked with axial stripes).



Guided Surgery Drill Module

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



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.



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.

References

- 1. Data on file with ZimVieDental.
- 2. Shiigai T. Pilot study in the identification of stability values for determining immediate and early loading of Implants. J Oral Implantol. 2007;33:13-22.
- 3. Park SH, Lee KW, Oh TJ, Misch CE, Shotwell J, Wang HL. Effect of absorbable membranes on sandwich bone augmentation. Clin Oral Implants Res. 2008;19:32-41.
- Steigmann M, Wang HL. Esthetic buccal flap for correction of buccal fenestration defects during flapless immediate implant surgery. J Periodontol. 2006; 77:517-522.
- 5. Lee CYS. Immediate load protocol for anterior maxilla with cortical bone from mandibular ramus. Implant Dent. 2006;15:153-
- 6. Cannizzaro G, Felice P, Leone M, Viola P, Esposito M. Early loading of implants in the atrophic posterior maxilla: lateral sinus lift with autogenous bone and Bio-Oss versus crestal mini sinus lift and 8-mm hydroxyapatite-coated implants. A randomised controlled clinical trial. Eur J Oral Implantol. 2009;2:25-38.
- 7. Siddiqui AA, O'Neal R, Nummikoski P, Pituch D, Ochs M, Huber H, Chung W, Phillips K, Wang IC. Immediate loading of singletooth restorations: one-year prospective results. J Oral Implantol. 2008;34:208-218.
- 8. Ormianer Z, Schiroli G. Maxillary single-tooth replacement utilizing a novel ceramic restorative system: results to 30 months. J Oral Implant ol. 2006;32: 190-199.
- 9. Artzi Z, Parsori A, Nemcovsky CE. Wide-diameter implant placement and internal sinus membrane elevation in the immediate postextraction phase: clinical and radiographic observations in 12 consecutive molar sites. Int J Oral Maxillofac Implants. 2003;18:242-249.
- 10. Khayat PG, Milliez SN. Prospective clinical evaluation of 835 multithreaded Tapered Screw-Vent implants: results after two years of functional loading. J Oral Implantol. 2007;34:225-231.
- 11. Ormianer Z, Garg AK, Palti A. Immediate loading of implant overdentures using modified loading protocol. Implant Dent. 2006;15:35-40.
- 12. Lee CYS, Rohrer MD, Prasad HS. Immediate loading of the grafted maxillary sinus using platelet rich plasma and autogenous bone: a preliminary study with histologic and histomorphometric analysis. Implant Dent. 2008;17:59-73.
- Lee CYS, Hasegawa H. Immediate load and esthetic zone considerations to replace maxillary incisor teeth using a new zirconia implant abutment in the bone grafted anterior maxilla. J Oral Implantol. 2008;34:259-267
- 14. Ormianer Z, Palti A. Long-term clinical evaluation of tapered multi-threaded implants: results and influences of potential risk factors. J Oral Implantol. 2006;32:300-307.
- 15. Rosenlicht JL. Advancements in soft bone implant stability. West Indian Dent J 2002; 6: 2-7.
- 16. Trisi P, Marcato C, Todisco M. Bone-to-implant apposition with machined and MTX microtextured implant surfaces in human sinus grafts. Int J Periodontics Restorative Dent 2003; 23(5): 427-
- 17. Todisco M, Trisi P. Histomorphometric evaluation of six dental implant surfaces after early loading in augmented human sinuses. J Oral Implantol. 2006;32(4):153-166.
- 18. El Chaar E, Bettach R. Immediate placement and provisionalization of implant-supported, single-tooth restorations: a retrospective study. Int J Periodontics Restorative Dent 2011; 31(4).

- 19. Consolo U, Travaglini D, Todisco M, Trisi P, Galli S. Histologic and biomechanical evaluation of the effects of implant insertion torque on peri-implant bone healing. J Craniofac Surg. 2013; 24: 860-865.
- 20. Trisi P, Todisco M, Consolo U, Travaglini D. High versus low implant insertion torque: a histologic, histomorphometric, and biomechanical study in the sheep mandible. The Int J Oral Maxillofac Implants 2011; 26: 837-849.
- 21. Mihalko WM, May TC, Kay JF, Krause WP. Finite element analysis of interface geometry effects on the crestal bone surrounding a dental implant. Implant Dent. 1992;1:212-217.
- 22. Chun HJ, Shin HS, Han CH, Lee SH. Influence of implant abutment type on stress distribution in bone under various loading conditions using finite element analysis. Int J Oral Maxillofac Implants. 2006;21:105-202.
- 23. Brunette DM, Chehroudi B. The effects of the surface topography of micromachined titanium substrata on cell behavior in vitro and in vivo. J Biomech Eng 1999;121(1):49-75.
- 24. Cosyn J, Sabzevar MM, de Wilde P, de Rouck. Two-piece implants with turned versus microtextured collars. J Periodontal 2007;78:1657-1663.
- 25. Mazor Z, Cohen DK. Preliminary 3-dimensional surface texture measurement and early loading results with a microtextured implant surface. Int J Oral Maxillofac Implants 2003;18(5):729-738.
- 26. Chehroudi B, Gould TRL, Brunette DM. Effects of a grooved titanium-coated implant surface on epithelial cell behavior in vitro and in vivo. J Biomed Mater Res 1989;23:1067-1085.
- 27. Harel N, Piek D, Livne S, Palti A, Ormianer Z. A 10-Year retrospective clinical evaluation of immediately loaded tapered maxillary implants. Int J Prosthodont 2013; 26: 244-249.
- 28. Ormianer Z, Palti A. The use of tapered implants in the maxillae of periodontally susceptible patients: 10 - Year Outcomes. Int J Oral Maxillofac Implants 2012; 27: 442-448.
- 29. Binon PP. The evolution and evaluation of two interference-fit implant interfaces. Postgraduate Dent. 1996;3:3-13.
- 30. Shin SY, Han DH. Influence of a microgrooved collar design on soft and hard tissue healing of immediate implantation in fresh extraction sites in dogs. Clin Oral Implants Res. 2010;21:804-814.
- 31. American Society for Testing and Materials Committee on Standards. Designation B 348-94. Standard specification for titanium. Annual Book of ASTM Standards. Vol. 02.04. Philadelphia: American Society for Testing and Materials, 1994: 141-146.
- 32. American Society of Testing and Materials International. Designation F67-06. Standard specification for unalloyed titanium for surgical implant applications. 2006
- 33. International Organization for Standardization. ISO 5832-2: Implants for surgery - metallic materials - part 2: unalloyed titanium. Available online at: http://www.iso.org.
- 34. International Organization for Standardization. ISO 5832-2: Implants for surgery – metallic materials – part 3: wrought titanium. 1996. Available online at: http://www.iso.org.

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