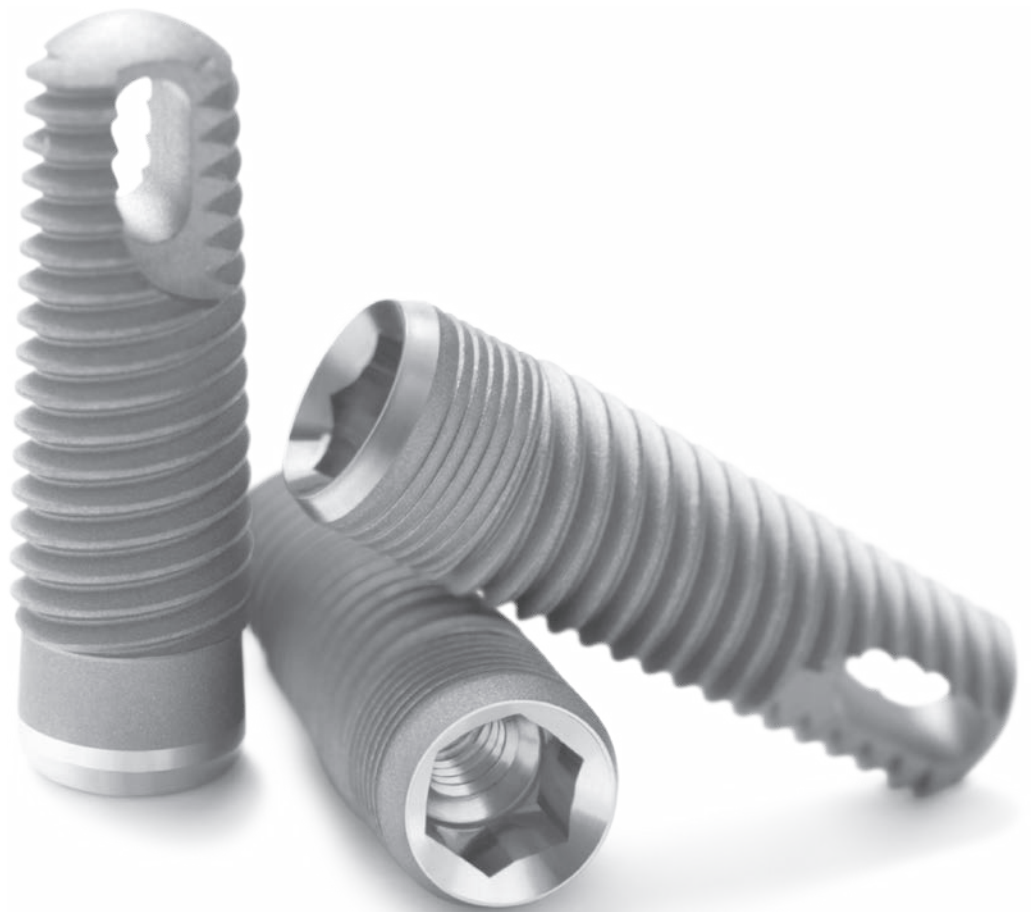


# Tapered Screw-Vent<sup>®</sup> Implant

A Legacy Of Performance



# TSV<sup>®</sup> Implant Overview

With 20 years of clinical use and over 6-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.

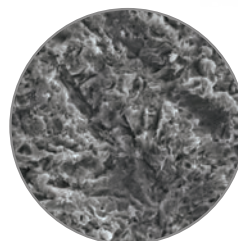
## Tapered Implant Body

Designed for primary stability, the tapered titanium alloy body provides strength for reliable function.<sup>1\*</sup> (Model TSVT, shown)



## MTX<sup>®</sup> 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:

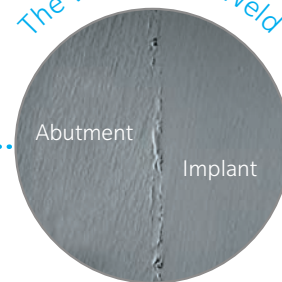
- Primary Stability<sup>7, 15, 18-20</sup>
- Secondary Stability<sup>2-14, 16, 17</sup>
- Crestal Bone Maintenance<sup>21-28</sup>
- Prosthetic Stability<sup>21, 22, 29</sup>
- Clinical Success<sup>2-14, 27, 28</sup>



### High Osteoconductive Potential

Zimmer Biomet's MP-1<sup>®</sup> HA coating with up to 97% crystalline HA content is significantly higher than other commercial HA coatings.<sup>1,30</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>31</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)

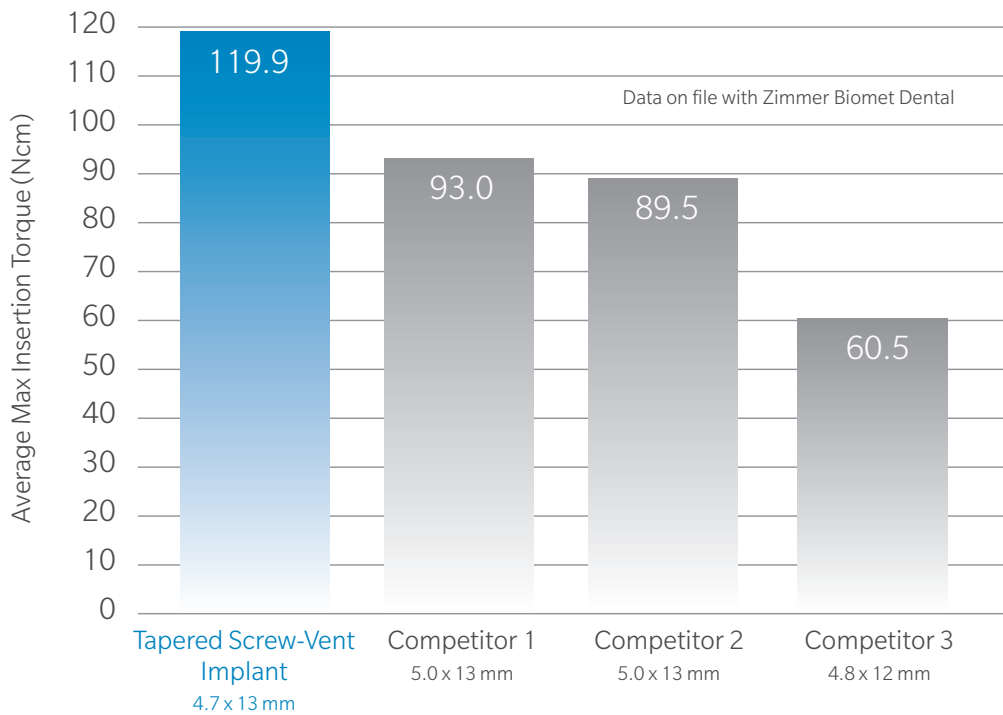


# Designed For Stability

## 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>32</sup> and strength.<sup>33-35</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>33-35</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>



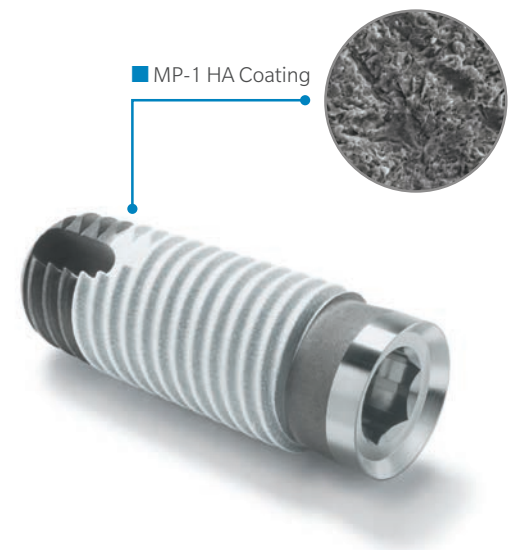
### Documented MTX Surface Advantages

- 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>



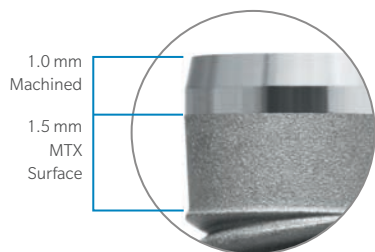
### Documented MP-1 HA Coating Advantages

- Up to 97% crystallinity, reducing soluble phases and creating the potential to increase the coating's stability in vivo compared to HA coatings with lower crystallinity.<sup>1, 30</sup>
- High degree of in vivo bone-to-implant contact (BIC)<sup>36</sup>
- Higher reverse torque values and higher BIC at 3 and 6 weeks than a hydrophilic sand-blasted, acid-etched surface in an ovine model.<sup>37</sup>

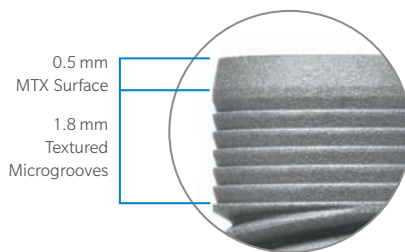


## Coronal Options

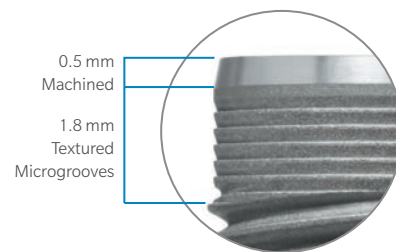
Tapered Screw-Vent Implants are offered with and without crestal microgrooves and machined collar or texturing to the top to maximize flexibility, tissue management and crestal bone maintenance in a variety of clinical conditions.<sup>14, 23-26, 31</sup> Configurations available on select implants are shown below.



■ Model: TSV



■ Model: TSVT



■ Model: TSVM

## 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.

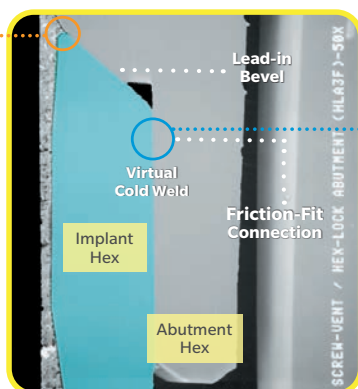


Fig. B: Higher magnification of unique beveled interface and full interface seal.

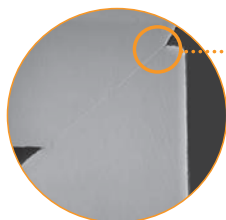
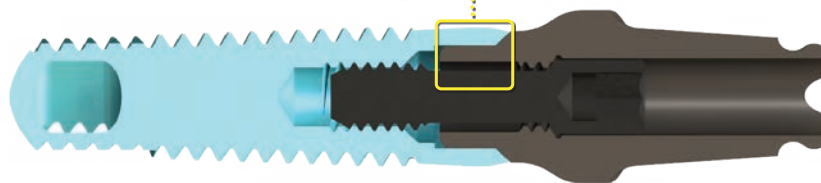
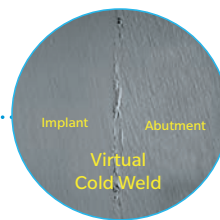


Fig C: Higher magnification of the virtual cold weld between the abutment and implant.



## 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.

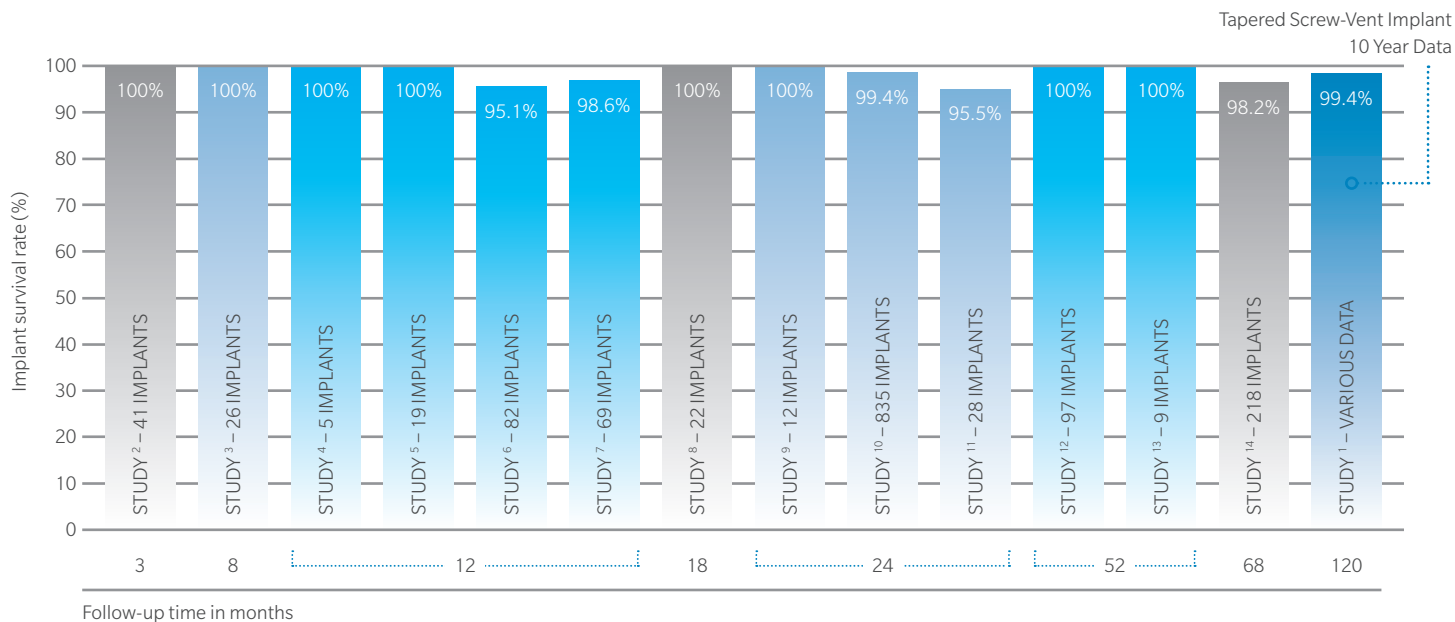


X-ray at time of final restoration.



10-year follow-up showed no bone loss.

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# Ordering Information



## 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

## 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

## 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





### TSVT MP-1 HA: Tapered Screw-Vent Implants With MTX Textured Collar, Microgrooves And MP-1 HA Dual Transition Selective 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	TSVTH8	TSVTH10	TSVTH11	TSVTH13	TSVTH16
4.1 mmD	● 3.5 mmD*	2.5 mmD	TSVT4H8	TSVT4H10	TSVT4H11	TSVT4H13	TSVT4H16
4.7 mmD	● 4.5 mmD	2.5 mmD	TSVTWH8	TSVTWH10	TSVTWH11	TSVTWH13	TSVTWH16
6.0 mmD	● 5.7 mmD	3.0 mmD	TSVT6H8	TSVT6H10	TSVT6H11	TSVT6H13	TSVT6H16



### TSVM MP-1 HA: Tapered Screw-Vent Implants With 0.5 mm Machined Collar, Microgrooves And MP-1 HA Dual Transition Selective 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	13 mmL
3.7 mmD	● 3.5 mmD	2.5 mmD	TSVMH8	TSVMH10	TSVMH11	TSVMH13	TSVMH16
4.1 mmD	● 3.5 mmD*	2.5 mmD	TSVM4H8	TSVM4H10	TSVM4H11	TSVM4H13	TSVM4H16
4.7 mmD	● 4.5 mmD	2.5 mmD	TSVMWH8	TSVMWH10	TSVMWH11	TSVMWH13	TSVMWH16
6.0 mmD	● 5.7 mmD	3.0 mmD	TSVM6H8	TSVM6H10	TSVM6H11	TSVM6H13	TSVM6H16



### TSV MP-1 HA: Tapered Screw-Vent Implants With MP-1 Dual Transition Selective 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	TSVH8	TSVH10	TSVH11	TSVH13	TSVH16
4.1 mmD	● 3.5 mmD*	2.5 mmD	TSV4H8	TSV4H10	TSV4H11	TSV4H13	TSV4H16
4.7 mmD	● 4.5 mmD	2.5 mmD	TSVWH8	TSVWH10	TSVWH11	TSVWH13	TSVWH16
6.0 mmD	● 5.7 mmD	3.0 mmD	TSV6H8	TSV6H10	TSV6H11	TSV6H13	TSV6H16

### 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: 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 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 *Dríva™ Drills (Gold Series or Original, 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: NPMODG

### 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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Contact us at 1-800-342-5454 or visit  
[zimmerbiometdental.com](http://zimmerbiometdental.com)

Zimmer Biomet Dental  
Global Headquarters  
4555 Riverside Drive  
Palm Beach Gardens, FL 33410  
Tel: +1-561-776-6700  
Fax: +1-561-776-1272

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