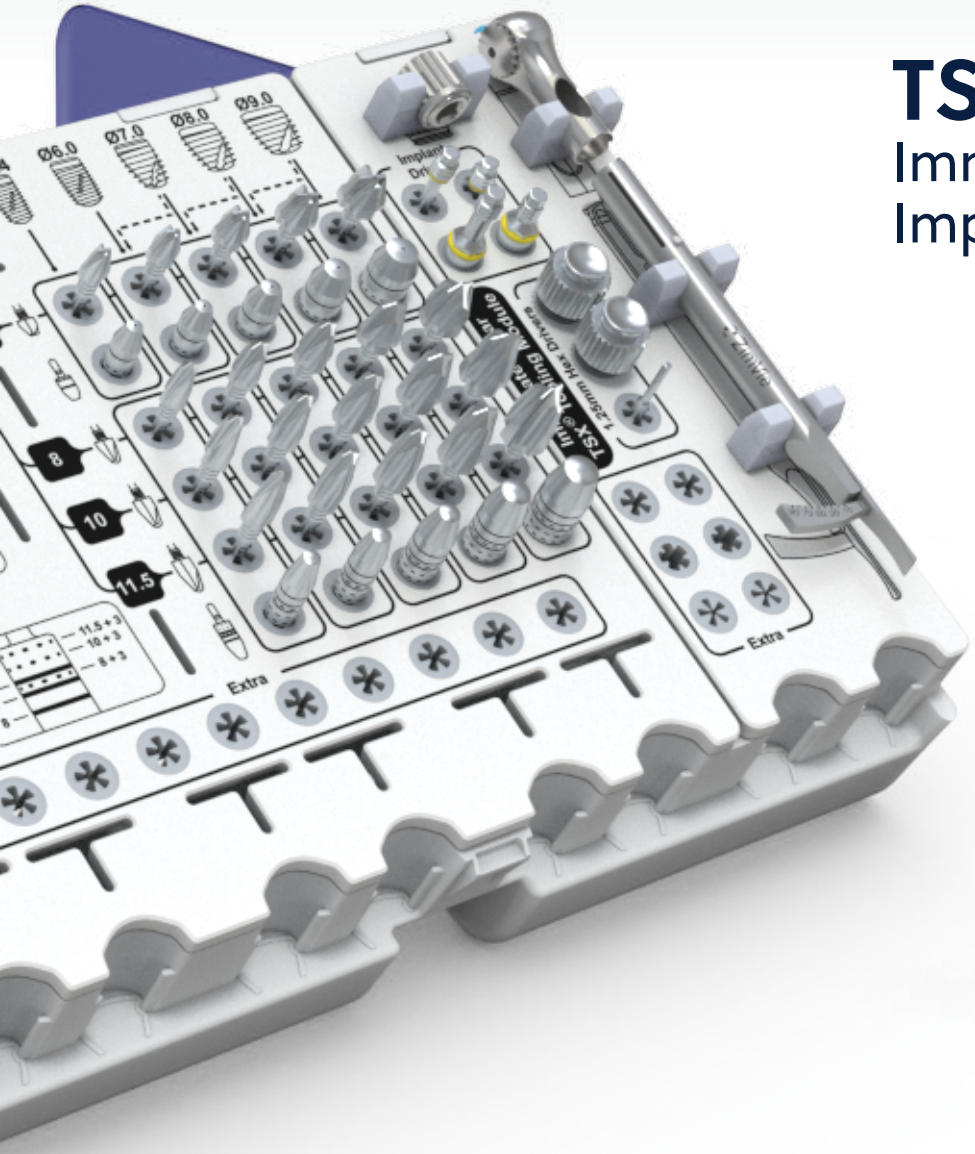
Designed for precision, control, and stability



TSX®
Immediate Molar Implant System

TSX® Immediate Molar Implant

ZimVie

SuperPowers for SuperHeroes

Conquer the challenging forces of Immediate Molars with confidence

New SuperPowers transform daunting clinical scenarios into immediate smiles and shortened treatment times.

ZimVie has ventured into the realm of Immediate Molars, developing a new implant system to help overcome notorious adversaries in the immediate molar world: chatter and instability.

Designed with extensive clinician input and rigorous research, the ZimVie Immediate Molar System is designed to empower surgeons with site preparation, accuracy, and improved primary stability in molar extraction sites.

ZimVie Immediate Molar

Precision and control in site preparation

- Achieve pinpoint purchase and reduce chatter

Improved implant stability

- Specialized Wide Implants designed for secure engagement in diverse molar extraction anatomy[1]

Defender of peri-implant health

- Maintain crestal bone levels and minimize the risk of peri-implantitis[2–7]

Long-term osseointegration

- Achieve better bone cell attachment and secondary stability[8–9]

ZimVie Immediate Molar
Implant System

Created to achieve heroic precision, control, and stability

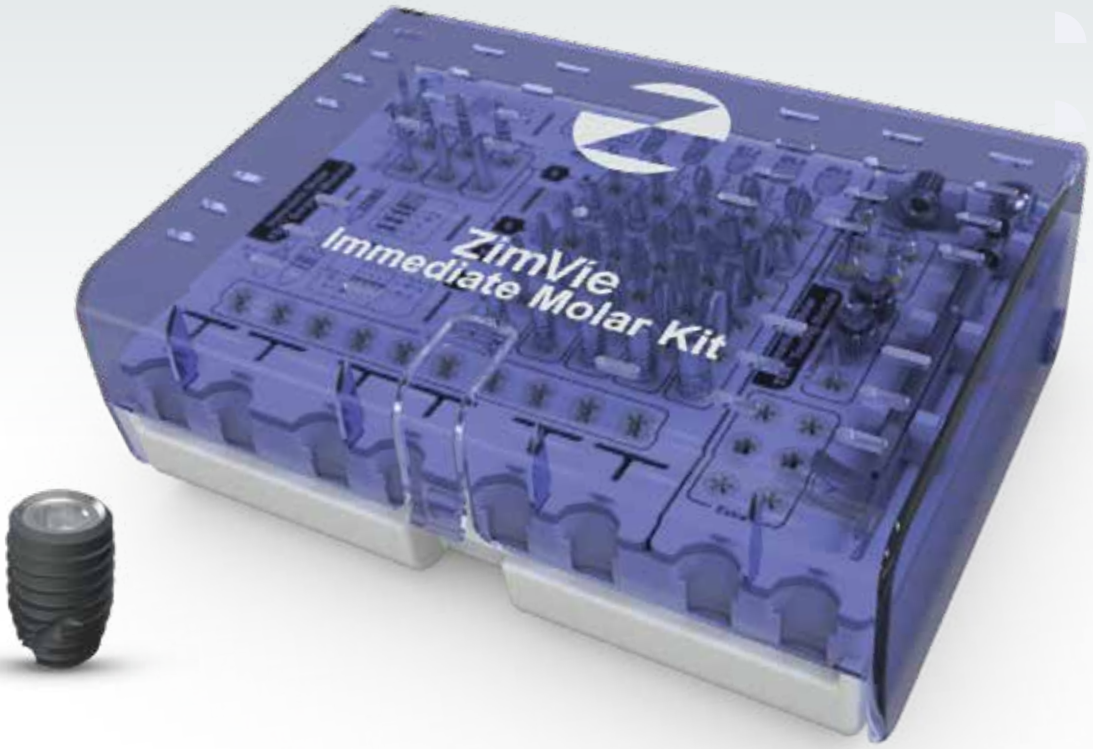
The **ZimVie Immediate Molar Implant System** was designed to address the challenges of immediate placement in complex molar extraction anatomy.

From drills that offer precision and control rather than chatter, to an implant engineered for better stability, the ZimVie Immediate Molar Implant System provides an experience from site preparation through implant placement.[1]

The **Pointed Starter Drill** achieves pinpoint purchase in desired location.

Successive **Tapered Drills** are designed to fit seamlessly into the site prepared by preceding drills, improving stability and minimizing chatter during the drilling process.[1]

Precision



Length-Specific Drills enable precise depth control.

Depth and Direction Indicators facilitate predictable implant placement depth.

Specialized Wide Implant design provides apical and coronal engagement in diverse molar extraction anatomy.

Control

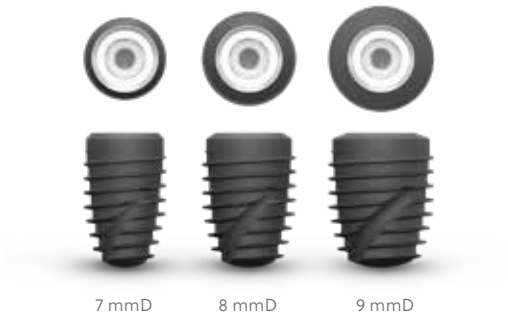
Stability

ZimVie Immediate Molar Implant

Improved stability

Experience the **ZimVie Immediate Molar Implant** designed to save valuable chair time, reduce the number of visits, and accelerate the path to the final restoration.*

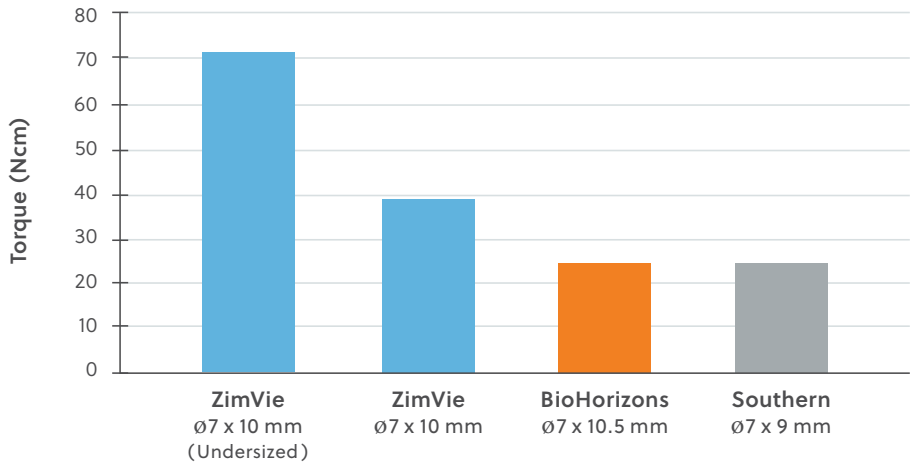
As your loyal partner in molar extraction sites, the Immediate Molar Implant is designed for immediacy, longevity, and peri-implant health.



Stability in Immediate Molar Placement[1]

- Three wide implant diameter choices (7 mmD, 8 mmD, 9 mmD) allow flexibility aimed at achieving the desired stability.
- Overcome stability challenges in complex molar anatomy with the implant's deep apical threads and the wide coronal design.

Insertion Torque Comparison
In a simulated maxillary extraction socket[1]



* Compared to delayed implant placement

TSV® Friction-Fit Connection
For TSX Immediate Molar Implants

- Available in 6 mmL*, 8 mmL, 10 mmL, 11.5 mmL

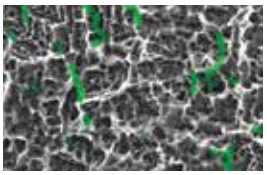
Crestal Bone Maintenance

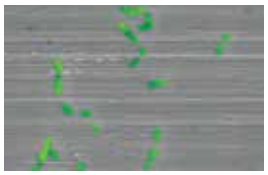
- Field-proven connection: TSV Friction-Fit Internal Hex, minimizes micromotion[2] and provides favorable conditions for crestal bone-level maintenance[3-4]
- Maintain crestal bone levels with the Platform Switching design[5]

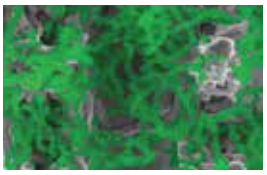
Peri-Implant Defense

- Proprietary coronal Dual Acid-Etched (DAE) Surface may lower the risk of bio-film formation and peri-implantitis while supporting healthy crestal bone levels[6-9]

Bacterial Adhesion on Commercially Available Coronal Surfaces[1]


ZimVie Immediate Molar DAE Surface


Machined Surface


Souther Implants SInergy Surface

BioHorizons Laser-Lok Surface

- Bacteria adhesion on the coronal DAE portion of the ZimVie Immediate Molar Implant is similar to that observed on a machined surface, but significantly less than on rougher surfaces such as laser-machined channels or those treated with alumina blasting.[11]

Promotes Osseointegration

- Below the DAE area, the Grit-Blasted Surface texture (Sa:0.8–1.8 µm) enhances the attachment and retention of bone cells.[10-11]

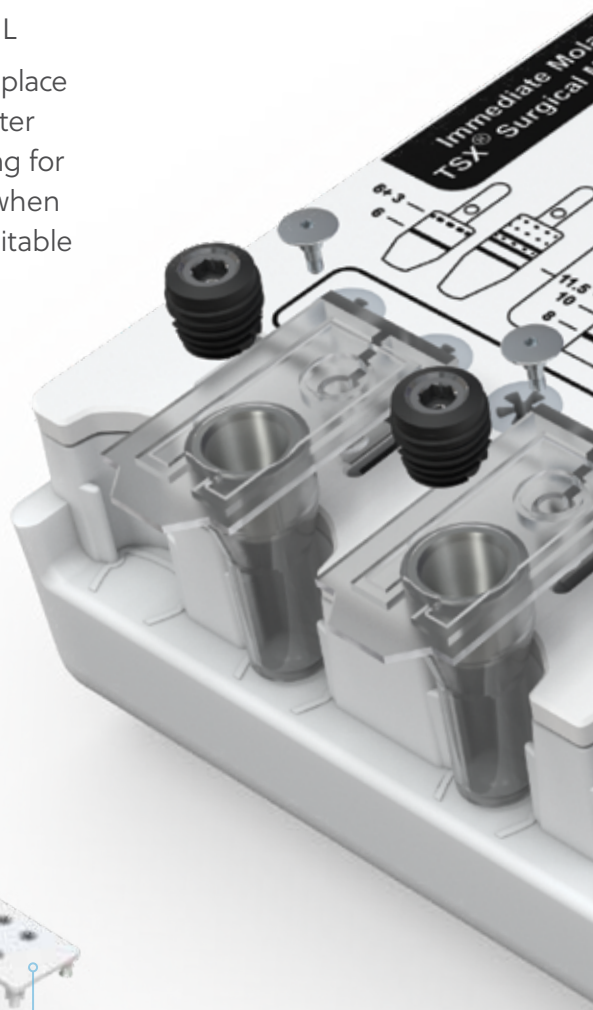
* 6 mmL available in 7 mmD and 8 mmD

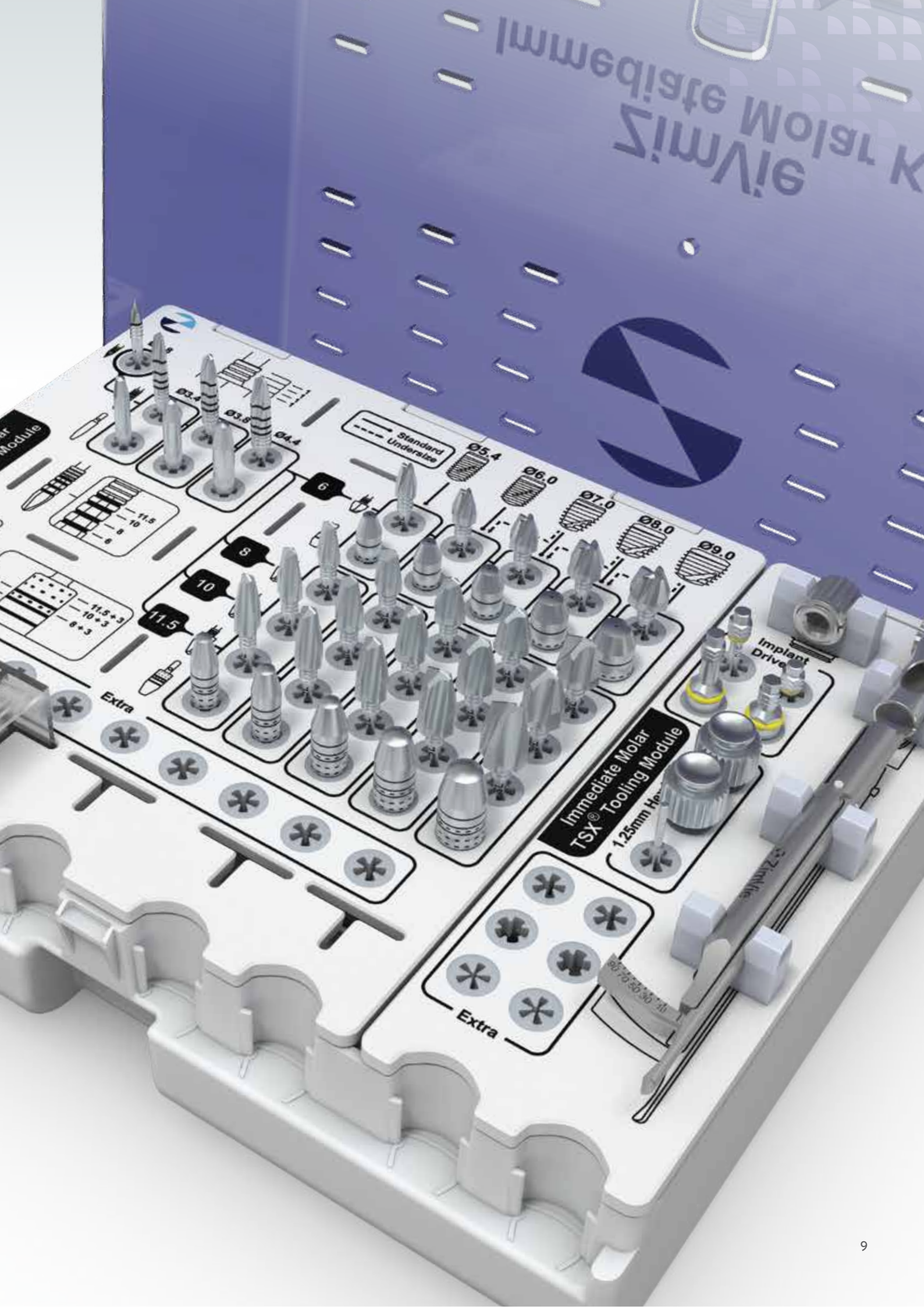
TSX Immediate Molar
Surgical Kit

Accommodates placement of TSX Immediate Molar Implants

- Diameters: 7 mmD, 8 mmD, and 9 mmD; Lengths: 6 mmL*, 8 mmL, 10 mmL, and 11.5 mmL
- The TSX Immediate Molar Kit can also be used to place TSX implants with a 5.4 mm and 6.0 mm diameter and 8.0 mm, 10.0 mm, or 11.5 mm length, allowing for an improved molar extraction site preparation when placement of a Wide Implant is not desired or suitable
- Extra grommets allow for customization with additional instrumentation
- Offers the flexibility to include an optional Bone Tap Module, enhancing adaptability for varying bone densities

*6 mmL available in 7 mmD and 8 mmD



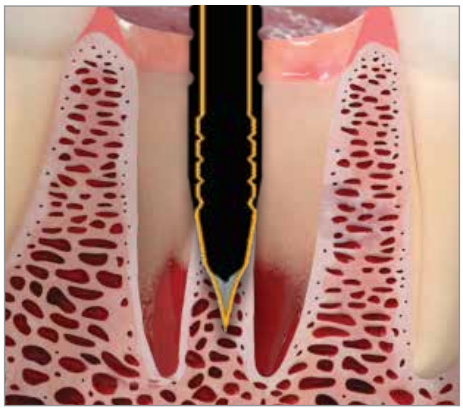

Immediate Molar
TSX® Tooling Module
Standard
Undersize
Ø3.4
Ø3.8
Ø4.4
Ø5.4
Ø6.0
Ø7.0
Ø8.0
Ø9.0
6
8
10
11.5
Extra
Implant
Drive
Extra

Minimize Chatter
Maximize Efficiency

Improve Control and Accuracy

From the onset, ZimVie's guiding principle in developing the **ZimVie Immediate Molar Implant System** was to design molar preparation instrumentation that enhances control and accuracy.

The drills were specifically engineered to reduce chatter and improve cutting efficiency, addressing the diverse anatomical complexities of molar extraction sites.



The illustration highlights the relationship between the **Pointed Starter Drill** (orange outline), and the **Tapered Drill** (black silhouette), which nests precisely into the osteotomy initiated by the Pointed Starter Drill.

This **nesting feature** continues throughout the drilling sequence to enhance stability and reduce chatter, contributing to a smooth and controlled drilling experience.

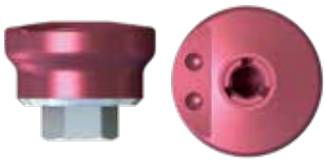
Simplified Restorative Solutions

Designed for Immediacy

ZimVie Immediate Molar Implants are available for TSV Friction-Fit Internal Hex 5.7 mmD connection.

This platform is compatible with existing prosthetic solutions, ensuring a seamless integration with current workflows and tools.

Healing Components



Encode® Emergence Impression System

Definitive Restorations

CAD/CAM Restoration

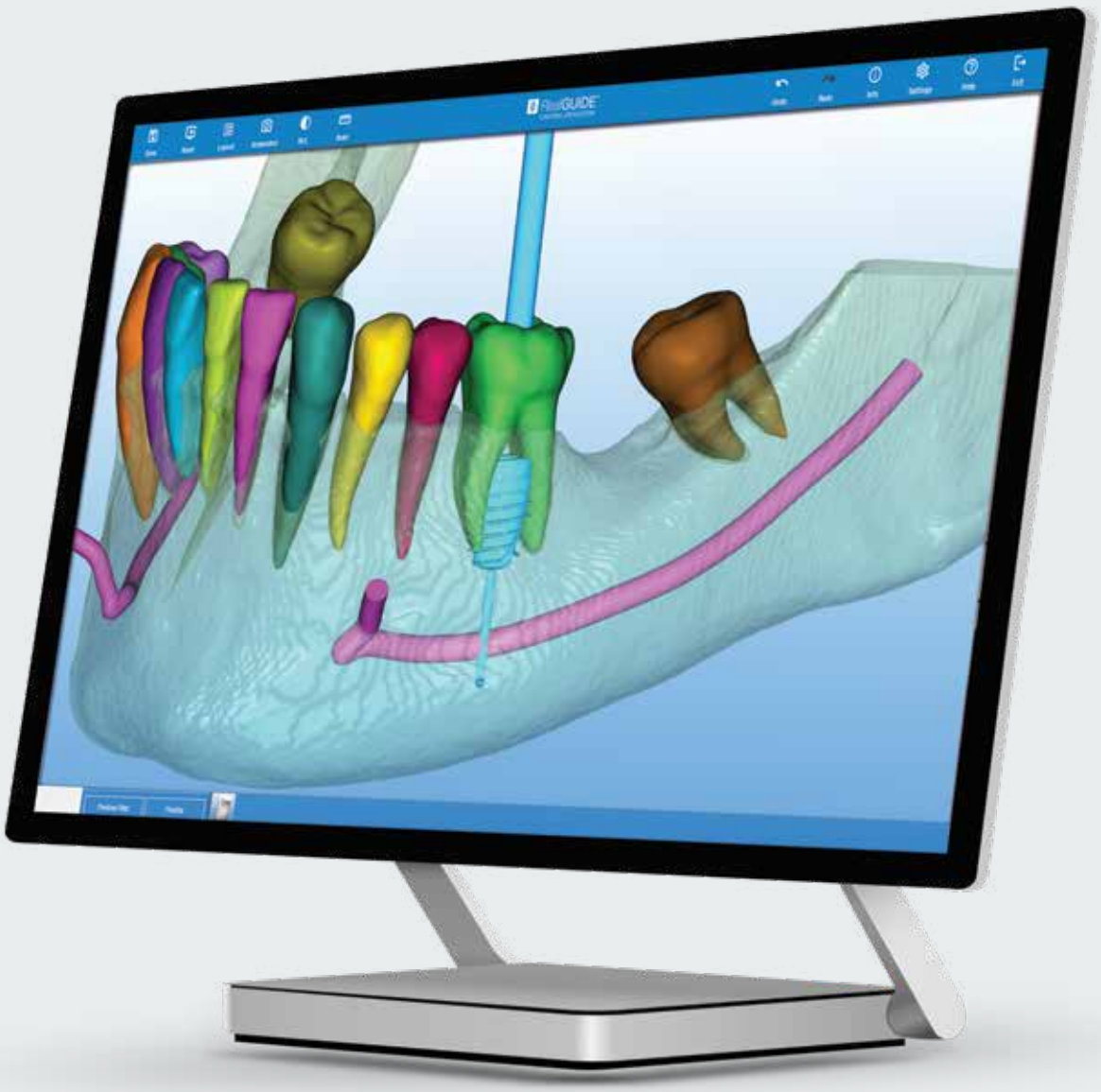
For a complete list of restorative components can the QR code, or visit:
www.ZimVie.com/en/dental/restorative-products.html

Precise Surgical Planning

Seamless Digital Workflow Integration

RealGUIDE®
UNIVERSAL OPEN SYSTEM

Seamlessly integrate ZimVie implant designs into your workflow with downloadable STL files and treatment planning capabilities. The RealGUIDE® Software Suite provides all the tools you need for precise planning, advanced restorative design, and smooth integration of dental workflows to enhance patient care.



Empower yourself with the SuperPowers your patients deserve.

Experience the precision, control, and stability of ZimVie Immediate Molar Implants.

Ordering Information

TSX Immediate Molar Surgical Kit: IMKITTSX					
Implant Diameter	Internal Hex Connection	Implant Length			
		6 mmL	8 mmL	10 mmL	11.5 mmL
7 mmD	5.7 mmD TSV Internal Hex	TSXIM7D6L	TSXIM7D8L	TSXIM7D10L	TSXIM7D115L
8 mmD	5.7 mmD TSV Internal Hex	TSXIM8D6L	TSXIM8D8L	TSXIM8D10L	TSXIM8D115L
9 mmD	5.7 mmD TSV Internal Hex	-	TSXIM9D8L	TSXIM9D10L	TSXIM9D115L

7 mmD | 8 mmD | 9 mmD

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[1] Data on File.

[2] Suttin Z, Towse R, Cruz J. A novel method for assessing implant-abutment connection seal robustness. Poster Presentation (P188): Academy of Osseointegration, 27th Annual Meeting, March 2012; Phoenix, AZ. Note: The authors conducted this research while employed at ZimVie. Pre-clinical and/or bench top studies are not necessarily indicative of clinical performance.

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[4] 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.

[5] Lazzara RJ, Porter SS. Platform switching: a new concept in implant dentistry for controlling postrestorative crestal bone levels. Int J Periodontics Restorative Dent 2006; 26(1):9-17.

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[7] Mendes VC, Moineddin R, Davies JE. Discrete calcium phosphate nanocrystalline deposition enhances osteoconduction on titanium-based implant surfaces. J Biomed Mater Res A. 2009; 90(2):577-85.

[8] Davies JE, Ajami E, Moineddin R, Mendes VC. The roles of different scale ranges of surface implant topography on the stability of the bone/implant interface. Biomaterials 2013; 34:3535-35456.

[9] Subramani et al. Biofilm on dental implants: a review of the literature. Int J Oral Maxillofac Implants 2009; 24(4):616-26.

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[11] Pre-clinical and/or bench top studies are not necessarily indicative of clinical performance.

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