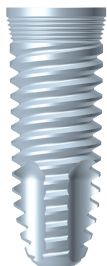




HI-TEC IMPLANTS™

SINCE 1990

TAPERED SELF THREAD™ INTERNAL HEX CONNECTION



Tapered Self Thread™ Features

The Tapered Self-Thread™ implant was designed with all bone conditions in mind. This makes the Tapered Self-Thread™ an excellent choice for the maxilla or mandible. A self-tapping design allows clinicians to place the Tapered Self-Thread™ with ease, resulting in a more predictable surgery. This implant uses a standard and wide platform internal hex connection, making the restoration process more simple and affordable.



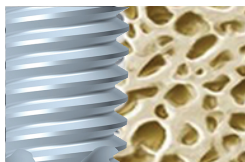
Polished Collar

The collar of the Tapered Self-Thread™ implant was designed with micro-threads, which enhances stabilization in crestal bone. This collar is finished with a machine polished surface to increase soft tissue attachment and limit the risk of infection.



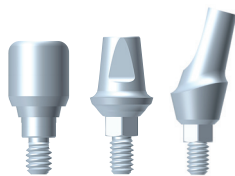
Self-Tapping

The thread design of the Tapered Self-Thread™ allows for placement in hard or soft bone without the need of a tap. Eliminating this step saves clinicians time and reduces the complexity of surgery. Although no tap is used, there is no reduction in stability or function.



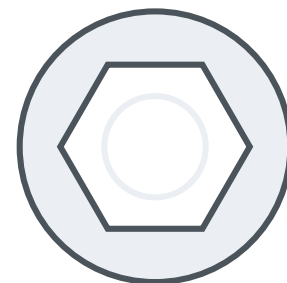
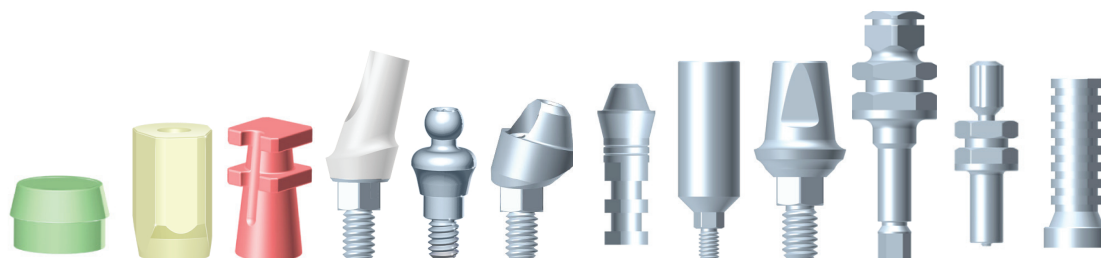
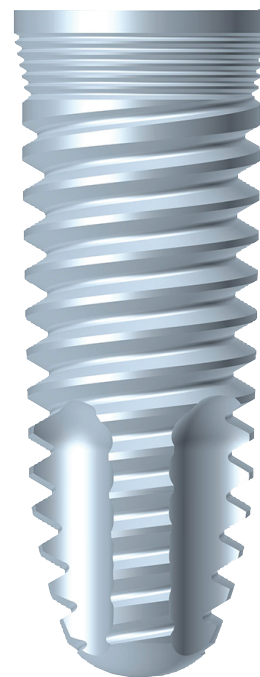
Integrated SLA Surface™

Through a process of grit blasting and acid etching, Hi-Tec's Integrated SLA Surface™ produces highly osseointegrative implants. This increases bone to implant surface area, which accelerates and improves osseointegration.



Prosthetic Compatibility

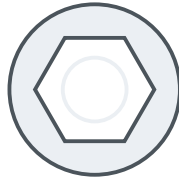
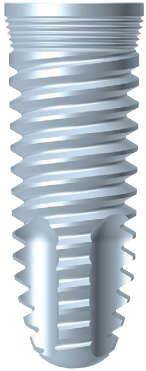
The standard and wide platform internal hex connections are the most commonly used implant connections world-wide. Having a compatible connection simplifies the restoration process and makes the transition to Hi-Tec™ implants easier and more affordable.





TECHNICAL SPECIFICATIONS

TAPERED SELF THREAD™ INTERNAL HEX CONNECTION



- **Implant Material:** Ti-6Al-4V Titanium Alloy
- **Surface Finish:** SLA Integrated Surface™
- **Implant Collar:** Polished Micro-Thread
- **Delivery System:** Available with Placement Mount
- **Implant Placement Torque:** 30-60Ncm
- **Abutment Torque:** (Standard 35Ncm) (Multi-Unit 15Ncm)
- **Prosthetic Screw Type:** .050" (1.25mm) Hexagon
- **Compatibility:** Zimmer® Tapered Screw-Vent® (3.1mm, 3.7mm, 4.1mm)

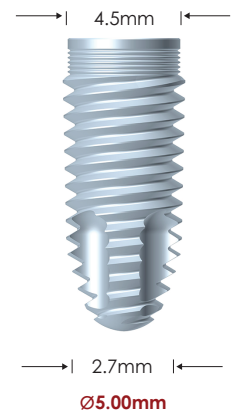
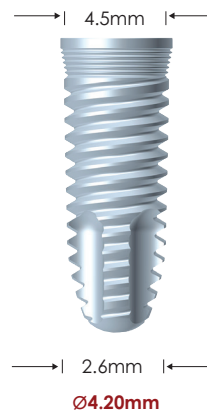
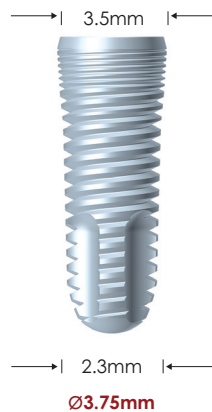
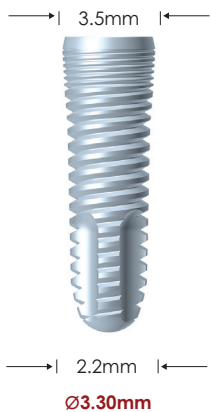
*Zimmer Tapered Screw-Vent is a registered trademark of Zimmer Dental Inc.

Standard Platform
NTI 3.3
8.0mm
10.0mm
11.5mm
13.0mm
16.0mm

Standard Platform
SLT 3.75
8.0mm
10.0mm
11.5mm
13.0mm
16.0mm

Wide Platform
GTI 4.2
8.0mm
10.0mm
11.5mm
13.0mm
16.0mm

Wide Platform
WTI 5.0
8.0mm
10.0mm
11.5mm
13.0mm
16.0mm



Tapered Self Thread™ Implants Drill Sequence

		RB	2.0	2.5	2.8	CSD						
NTI 3.3	SOFT BONE	•	•	•	•							
	HARD BONE	•	•	•	•	X						
SLT 3.75	SOFT BONE	•	•	•	•							
	HARD BONE	•	•	•	•	•	3.4	CSD				
GTI 4.2	SOFT BONE	•	•	•	•							
	HARD BONE	•	•	•	•	•	3.4	3.65	4	4.3	CSD	
WTI 5.0	SOFT BONE	•	•	•	•							
	HARD BONE	•	•	•	•	•	3.65	4	4.3	4.5	CSD	X

1/2 = DRILL TO HALF DEPTH
X = COUNTERSINK OPTIONAL



Self Thread™ 4.2 & 5.0 Internal Hex Connection - Wide Platform

Prosthetic Elements








Analogs

Item	SKU	Length	Cuff Height
 Ball Attachment Analog	BNL	14mm	
 Implant Analog	W-IL	11.05mm	
 Digital Analog	W-ILD	11.05mm	

Impression Copings

 Closed Tray Impression Coping	W-AAT	12mm	
 Open Tray Impression Coping	W-AAT-L	16mm	
 Snap Cap Impression Coping	W-AST	15mm	
 Snap Cap	T-PT	10mm	



Titanium Preparable Abutments

	Straight Titanium Abutment	W-ACA	9.8mm	0mm
		W-ACA-E-1	7.5mm	1mm
		W-ACA-E-2	8.5mm	2mm
		W-ACA-E-3	9.5mm	3mm
		W-ACA-E-4	10.5mm	4mm
	Wide Profile	W-ACA-P	10mm	0mm
	Round Profile	W-ACA-R	13.6mm	0mm
	Non-Engaging	W-SCA	10mm	0mm
	Modular Abutment Set	W-ACA-G-1-SET	1mm	
		W-ACA-G-2-SET	2mm	
		W-ACA-G-3-SET	3mm	
		W-ACA-G-4-SET	4mm	
	15 Degree Angled Titanium Abutment	W-ANA-15	9.3mm	1.4/1.4mm
		W-ANA-15-E-1	9.1mm	2.1/3.1mm
		W-ANA-15-E-2	9.1mm	3.1/4.1mm
	25 Degree Angled Titanium Abutment	W-ANA-25	9.6mm	1.4/1.4mm



Zirconia Preparable Abutments

	Straight Zirconia Abutment	W-TA	12mm	4mm
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Healing Abutments

	Healing Abutment	W-HC-3 W-HC-5	3mm 5mm	
	Anatomical Healing Abutment	W-HC-3-P W-HC-5-P	3mm 5mm	

Temporary Abutments

	Engaging Straight Titanium Temporary Abutment	W-PTA	10.8mm	
	Non-Engaging Straight Titanium Temporary Abutment	W-PCA-R-TI	12.6mm	






Castable UCLA Abutments

	Engaging Plastic Castable Abutment	W-PCA	11mm	
	Non-Engaging Plastic Castable Abutment	W-PCA-R	11mm	
	Engaging Gold Castable Abutment	W-PGA	10.8mm	








Multi-Unit Components

	MU - Closed Tray Impression Coping	MU-AAT	9mm	
	MU - Open Tray Impression Coping	MU-AAT-L	13.87mm	
	MU - Analog	MU-CL	13.14mm	
	MU - Fixation Screw	MU-FS		
	MU - Healing Cap	MU-HC	4.71mm	
	MU - Plastic Castable Sleeve	MU-PC	11.9mm	
	MU - Titanium Sleeve	MU-TPC	12.25mm	
	MU - Scan Body	MU-SCAN	8.59mm	
	MU - Titanium Base	MU-TB	4.5mm	
	MU - Straight Abutment	W-MU-1	3mm	1mm
		W-MU-2	4mm	2mm
		W-MU-3	5mm	3mm
		W-MU-4	6mm	4mm
	MU - 25 Degree Angled Abutment	W-MU25	5.2mm	1.77/ 3.8mm
	MU - Zest® Locator Abutment Collar (2-Pack)	8909-2	1.0mm	









O-Ball Abutments

	O-Ball Abutment	W-BBA-0.5	3.1mm	0.5mm
		W-BBA-2	4.6mm	2mm
		W-BBA-4	6.6mm	4mm
		W-BBA-6	8.6mm	6mm
	Metal Housing	MH	3.22mm	
	Nylon Cap - Extra Light Retention	NC-CLEAR		
	Nylon Cap - Light Retention	NC-PINK		
	Nylon Cap - Medium Retention	NC-ORANGE		
	Nylon Cap - High Retention	NC-GREEN		

CAD/CAM Custom Prosthetics

	Short Scan Body	W-SCAN-S	7.8mm	
	Long Scan Body	W-SCAN-L	9.95mm	
	Multi-Unit - Scan Body	MU-SCAN	8.59mm	
	Multi-Unit - Titanium Base	MU-TB	4.5mm	
	Digital Analog	W-ILD	11.05mm	
	Engaging T-Base Abutment	W-PRN	5mm	
	Non-Engaging T-Base Abutment	W-PRN-R	5mm	

Zest® Locator Abutments

	Locator Internal Hex Standard Platform	8671	0mm
		8672	1mm
		8673	2.5mm
		8674	3.5mm
		8675	4.5mm
		8627	5.5mm
		8628	6.5mm
	Locator RT-X Internal Hex Connical Connection Platform (Includes Male Processing Package)	30201-00	0.5mm
		30201-01	1mm
		30201-02	2mm
		30201-03	3mm
		30201-04	4mm
		30201-05	5mm
	Locator Male Processing Package	8519-2	2-Pack
		8519-10	10-Pack
	Locator Extended Male Processing Package	8540-2	2-Pack
		8540-10	10-Pack
	Locator Replacement Denture Cap Male Assembly	8510-4	4-Pack
		8510-10	10-Pack
	Locator Female Analog (4mm Diameter)	8530-4	4-Pack
		8530-20	20-Pack
	Locator Female Analog (5mm Diameter)	8516-4	4-Pack
		8516-20	20-Pack
	Locator Impression Coping	8505-4 8505-20	4-Pack 20-Pack

Internal Hex Surgical Kit



The internal hex connection surgical kit is entirely customizable to your preferences. This kit is compatible with Hi-Tec™ Logic Plus™, Spark™, and Self Thread™ implants. It houses all of the insertion tools, drivers, and drills necessary for implant surgery. This kit is convenient and easily organized with detailed labels and categories for each instrument. It is a fully autoclavable kit made of surgical stainless steel that withstands long-term sterilization.

Bone Taps

L-BT-3.5 - Bone Tap for LGI+ & Spark - 3.5mm, wrench
 L-BT-4.3 - Bone Tap for LGI+ & Spark - 4.3mm, wrench
 L-BT-5.0 - Bone Tap for LGI+ & Spark - 5.0mm, wrench
 L-BT-6.0 - Bone Tap for LGI+ & Spark - 6.0mm, wrench
 N-BT-II - Bone Tap for Self Thread - Handpiece 3.3mm
 S-BT-II - Bone Tap for Self Thread - Handpiece 3.75mm
 G-BT-II - Bone Tap for Self Thread - Handpiece 4.2mm
 W-BT-II - Bone Tap for Self Thread - Handpiece 5.0mm



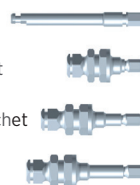
Burs & Drills

RB - 2.0mm Round Bur
 NX-LD-20T - 2.0mm Lindeman Bur
 NX-TLD-20T - 2.0mm Lance Drill
 CSD - Implant Countersink
 PD200L16C - 2.0mm Carbide Implant Drill
 TD250L16C - 2.5mm Carbide Implant Drill
 TD280L16C - 2.8mm Carbide Implant Drill
 TD320L16C - 3.2mm Carbide Implant Drill
 TD365L16C - 3.65mm Carbide Implant Drill
 TD400L16C - 4.0mm Carbide Implant Drill
 TD430L16C - 4.3mm Carbide Implant Drill
 TD450L16C - 4.5mm Carbide Implant Drill
 TD520L16C - 5.2mm Carbide Implant Drill
 TD550L16C - 5.5mm Carbide Implant Drill



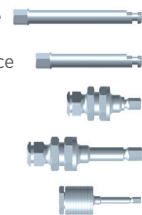
Implant/Mount Tools

LIT-C - Implant/Mount Tool for Handpiece
 LIT-S - Short Implant/Mount Tool for Ratchet
 LIT-M - Medium Implant/Mount Tool for Ratchet
 LIT-L - Long Implant/Mount Tool for Ratchet



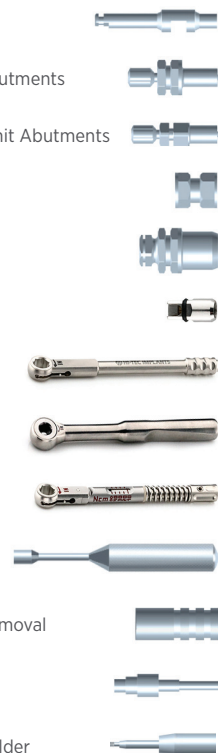
Prosthetic Drivers

L-1.25 - Long Prosthetic Driver for Handpiece
 S-1.25 - Short Prosthetic Driver for Handpiece
 SHT-S - Short Prosthetic Driver for Ratchet
 SHT-L - Long Prosthetic Driver for Ratchet
 DENT-1.25 - Handheld Prosthetic Driver



Ratchets & Attachments

DL - Drill Extension
 MU-IT - Hex Tool for Multi-Unit Abutments
 MU-IT-Q - Square Tool for Multi-Unit Abutments
 RAD - Hex to Square Adapter
 ART - Hex/Square to FT Adapter
 LS - Square to Latch Adapter
 HR - Hex Ratchet
 HR-S - Square Ratchet
 HR-TW - Hex Torque Wrench
 HSD - Hex Straight Driver Handle
 VS - Titanium Vessel for Mount Removal
 PT - Paralleling Tool
 MU-AH - Multi-Unit Angulation Holder





Integrated Surface™ Characteristics

Hi-Tec Implant's™ Integrated Surface™ is an SLA macro/micro implant surface, which is applied to the implant by large grit blasting, followed by a process of acid treatments. This results in a porous osseo-conductive surface that is an ideal platform for cell attachment. This process increases implant to bone contact and facilitates bone formation and superior osseointegration.

Macro Surface

A macro surface is achieved by blasting the implant with 60 micron large grit particles that create pores 10-30 microns wide. The topography of the surface is 10 microns from peak to valley. This significantly increases the implant surface area and the retention on the implant. The macro pores contribute to initial stability, shortened healing time, and provide ultimate load bearing capacity.

Micro Surface

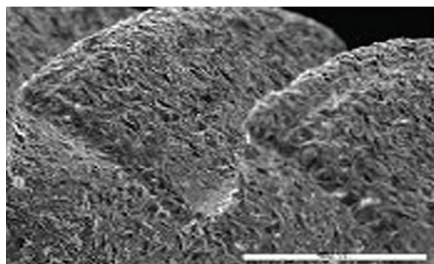
The micro-texture is created by chemical processes and is characterized by micro grooves of 0.503 microns. The micro voids are osseo-conductive and facilitate bone formation for faster osseointegration and mechanical interlock between the bone and the implant.

Surface Composition

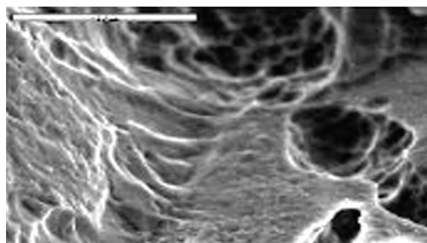
Surface composition analyzed by scanning electron microscopy presents a titanium oxide surface layer with a composition of 50% oxygen at the surface. Auger Spectron spectroscopy demonstrates that the depth of the titanium oxide layer is 200 angstroms.

Predictable Performance

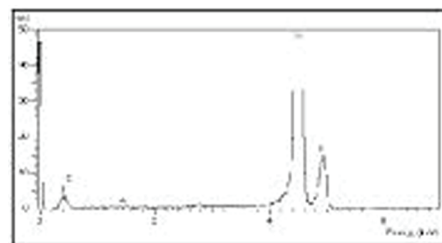
SLA technology has a long history of proven effectiveness as one of the most documented surfaces in dental technology. Hi-Tec Implant's™ Integrated Surface™ has extensive healing potential, which results in accelerated osseointegration. This makes the healing process more predictable for both you and your patient.



SEM SCANNING ELECTRON
MICROSCOPE x 100

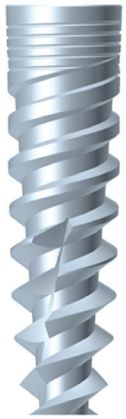


SEM SCANNING ELECTRON
MICROSCOPE x 5000



SURFACE COMPOSITION BY SEM

Implant Packaging



Mounted
(Figure 1.)

Mounted Implants

Most Hi-Tec Implants™ are available with an initial placement mount (Figure 1.). This mount is used to carry the implant to the surgical site. It should not be used for full placement of the implant, as it is designed only for the delivery of the implant to the osteotomy. After lightly threading the implant into the osteotomy, remove the mount with a 1.25mm (0.50") hexagonal driver. Once the mount is removed, use an implant insertion tool (specific to the implant being used) to drive the implant into the osteotomy. Following the implant placement, the mount can then be reattached to the implant and used as a closed tray impression coping. Remove the mount with a 1.25mm (0.50") hexagonal driver after taking the impression. After completing the impression, the provided cover screw can then be secured. This first stage cover screw is used to seal the connection of the implant. The cover screw can be secured and removed using the same 1.25mm (0.50") hexagonal driver. All drivers and insertion tools are provided in the surgical kit or can be purchased separately.

Non-Mounted Implants

Alternatively, some Hi-Tec Implants™ are offered without an initial placement mount for ease of placement. Instead of being packaged in a sterile plastic carrier, mountless Hi-Tec Implants™ are supplied in a sealed titanium vial (Figure 2.). The vial's material is designed to protect the implant's surface, ensuring optimal osseointegration. The lid of the vial contains a first stage healing screw, which can be used to cover and seal the connection of the implant. Placement of a mountless implant is easy, simply secure the corresponding insertion tool into the connection of the implant and carry it to the osteotomy. Then use the insertion tool to securely place the fixture into the osteotomy. After placing the implant, the first stage cover screw can be secured using the 1.25mm (0.50") hexagonal driver. The drivers and insertion tools are provided in the surgical kit or can be purchased separately.



Mountless
(Figure 2.)



Hi-Tec Implants™ meets and exceeds the highest standards in the field of medical devices: the main approvals, besides many others, are:

FDA APPROVAL: Center for Devices and Radiological Health in the US FDA (Food and Drug Administration) Since 1994.

CE MARK – After demonstrating compliance with Annex II of Medical Devices Directive 93/42/EEC, entitles us to use CE Marketing on our products.

ISO 13485: 2003 – An international standard for quality management of medical devices, Hi-Tec Implants LTD™ meets the requirements of ISO 13485 : 2003 for the design, manufacturing and inspection of dental implants and accessories.

ISO 9001: 2000 – Certifies that Hi-Tec Implants LTD™ demonstrates compliance of our quality system to meet the requirements of ISO 9001: 2000 (an international standard for quality management system).

Health Canada Medical Device License and CMDCAS ISO 13485: 2003 Accredited Since 2005.

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