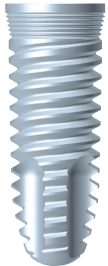


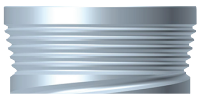


## TAPERED SELF THREAD™ INTERNAL HEX CONNECTION



### 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.



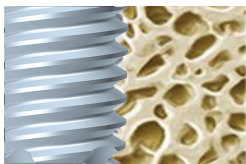
### Polished Collar

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.



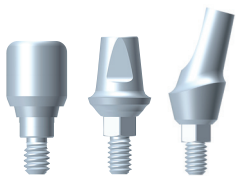
### Self-Tapping

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.



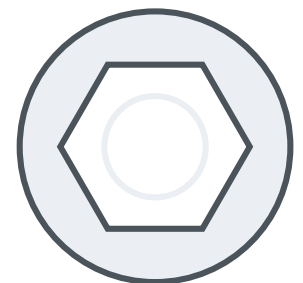
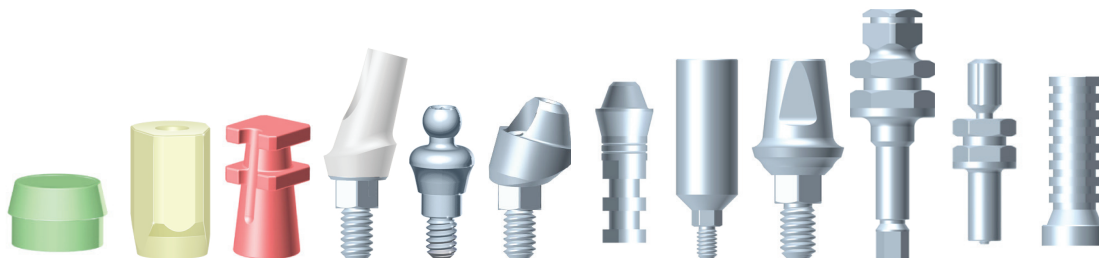
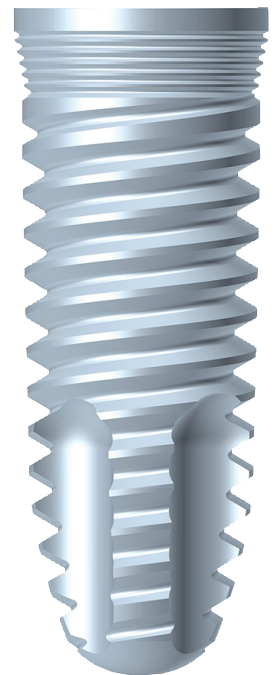
### Integrated SLA Surface™

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



### Prosthetic Compatibility

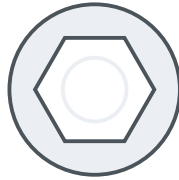
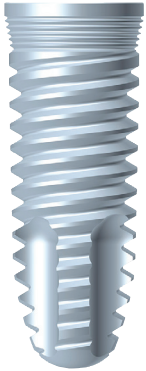
The standard and wide platform internal hex connections are the most commonly used implant connections world-wide. Having a compatible connection simplifies the restoration process and makes the transition to Hi-Tec™ implants easier and more affordable.





## 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)

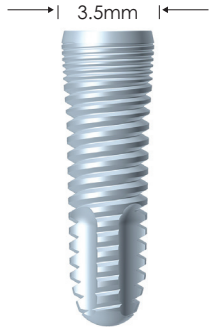
\*Zimmer Tapered Screw-Vent is a registered trademark of Zimmer Dental Inc.

Standard Platform
<b>NTI 3.3</b>
8.0mm
10.0mm
11.5mm
13.0mm
16.0mm

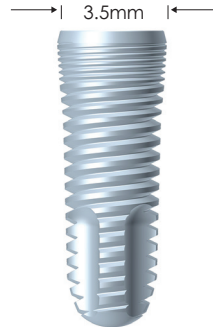
Standard Platform
<b>SLT 3.75</b>
8.0mm
10.0mm
11.5mm
13.0mm
16.0mm

Wide Platform
<b>GTI 4.2</b>
8.0mm
10.0mm
11.5mm
13.0mm
16.0mm

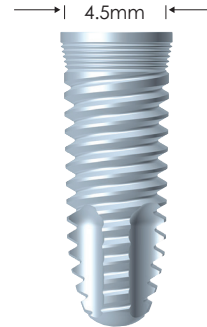
Wide Platform
<b>WTI 5.0</b>
8.0mm
10.0mm
11.5mm
13.0mm
16.0mm



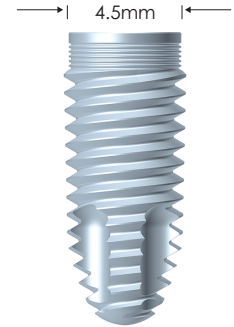
Ø3.30mm



Ø3.75mm



Ø4.20mm



Ø5.00mm



### Tapered Self Thread™ Implants Drill Sequence

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

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











**Analogs**

Item	SKU	Length	Cuff Height
 Ball Attachment Analog	BNL	14mm	
 Implant Analog	IL	10.7mm	
 Digital Analog	ILD	10mm	

**Impression Copings**

 Closed Tray Impression Coping	AAT	10.5mm	
 Open Tray Impression Coping	AAT-L	14.5mm	
 Snap Cap Impression Coping	AST	13mm	
 Snap Cap	T-PT	10mm	



**Titanium Preparable Abutments**

	Straight Titanium Abutment	ACA	9.8mm	0mm
		ACA-E-1	7.9mm	1mm
		ACA-E-2	8.9mm	2mm
		ACA-E-3	9.9mm	3mm
		ACA-E-4	10.9mm	4mm
	Wide Profile	ACA-P	9.8mm	0mm
	Round Profile	ACA-R	13.6mm	0mm
	Narrow Profile	ACA-S	8.86mm	0mm
	Non-Engaging	SCA	11.10mm	0mm
	Modular Abutment Set	ACA-G-1-SET		1mm
		ACA-G-2-SET		2mm
		ACA-G-3-SET		3mm
		ACA-G-4-SET		4mm
		ANA-15-E-2	9.2mm	2.15/3.05mm
	15 Degree Angled Titanium Abutment	ANA-15	9.1mm	1.2mm
		ANA-15-E-1	8.2mm	1.15/2.05mm
		ANA-15-E-2	9.2mm	2.15/3.05mm
	25 Degree Angled Titanium Abutment	ANA-25	9.4mm	1.3mm


**Zirconia Preparable Abutments**

	Straight Zirconia Abutment	ZTA	10.6mm	1.5/ 2.5mm
	15 Degree Angled Zirconia Abutment	ZTA-15	9.1mm	1.2/ 1.2mm

**Healing Abutments**

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

**Temporary Abutments**

	Straight Peek Nylon Temporary Abutment	RPA	9.7mm	1.5mm
	15 Degree Peek Nylon Temporary Abutment	RPA-15	9.1mm	1.2mm
	25 Degree Peek Nylon Temporary Abutment	RPA-25	9.4mm	1.3mm
	Non-Engaging Straight Titanium Temporary Abutment	PCA-R-TI	11.6mm	

**Castable UCLA Abutments**

Item	SKU	Length	Cuff Height
 Engaging Plastic Castable Abutment	PCA	11.7mm	1mm
 Non-Engaging Plastic Castable Abutment	PCA-R	11.7mm	1mm
 Engaging Gold Castable Abutment	PGA	10.7mm	
 Non-Engaging Gold Castable Abutment	PGA-R	10.7mm	
 Engaging Titanium Castable Abutment	PTA	11.2mm	










**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	S-MU-1	3mm	1mm
		S-MU-2	4mm	2mm
		S-MU-3	5mm	3mm
		S-MU-4	6mm	4mm
	MU - 17 Degree Angled Abutment	S-MU-17	4.76mm	1.7/ 3.08mm
		S-MU-17-2	6.2mm	3.1/ 4.5mm
	MU - 30 Degree Angled Abutment	S-MU-30	5.3mm	1.7/ 4.07mm
	MU - Zest® Locator Abutment Collar (2-Pack)	8909-2	1.0mm	









**O-Ball Abutments**

	O-Ball Abutment	BBA-0.5	3.8mm	0.5mm
		BBA-2	5.3mm	2mm
		BBA-4	7.3mm	4mm
		BBA-6	9.3mm	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**

Item	SKU	Length	Cuff Height
 Short Scan Body	S-SCAN-S	7.8mm	
 Long Scan Body	S-SCAN-L	9.95mm	
 Multi-Unit - Scan Body	MU-SCAN	8.59mm	
 Multi-Unit - Titanium Base	MU-TB	4.5mm	
 Digital Analog	ILD	10mm	
 Engaging T-Base Abutment	S-PRN	5mm	
 Non-Engaging T-Base Abutment	S-PRN-R	4.5mm	
 Engaging Screw Retained T-Base Abutment	ZTA-T		
 Non-Engaging Screw Retained T-Base Abutment	ZTA-T-R		

**Zest® Locator Abutments**

	Locator Internal Hex Standard Platform	8661	0mm
		8662	1mm
		8663	2.5mm
		8664	3.5mm
		8665	4.5mm
		8625	5.5mm
		8626	6.5mm
	Locator RT-X Internal Hex Connical Connection Platform (Includes Male Processing Package)	30200-00	0.5mm
		30200-01	1mm
		30200-02	2mm
		30200-03	3mm
		30200-04	4mm
		30200-05	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	4-Pack
		8505-20	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 osseo-integration.

### 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

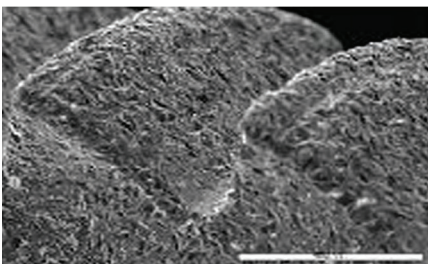
The micro-texture is created by chemical processes and is characterized by micro grooves of 0.503 microns. The micro voids are osseo-conductive and facilitate bone formation for faster osseo-integration and mechanical interlock between the bone and the implant.

### Surface Composition

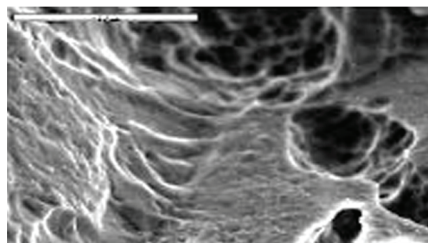
Surface composition analyzed by scanning electron microscopy presents a titanium oxide surface layer with a composition of 50% oxygen at the surface. Auger Spectron spectroscopy demonstrates that the depth of the titanium oxide layer is 200 angstroms.

### Predictable Performance

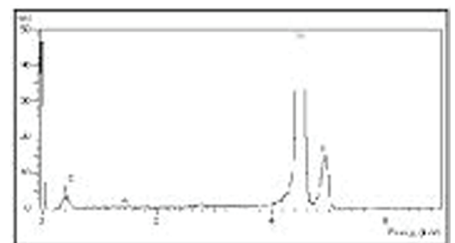
SLA technology has a long history of proven effectiveness as one of the most documented surfaces in dental technology. Hi-Tec Implant's™ Integrated Surface™ has extensive healing potential, which results in accelerated osseo-integration. This makes the healing process more predictable for both you and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



SEM SCANNING ELECTRON  
MICROSCOPE x 100



SEM SCANNING ELECTRON  
MICROSCOPE x 5000



SURFACE COMPOSITION BY SEM

## Implant Packaging

### Mounted Implants

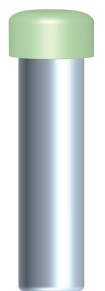
Most Hi-Tec Implants™ are available with an initial placement mount (Figure 1.). This mount is used to carry the implant to the surgical site. It should not be used for full placement of the implant, as it is designed only for the delivery of the implant to the osteotomy. After lightly threading the 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.



Mounted  
(Figure 1.)

### 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.

## Trademark Acknowledgment

A.B Dental™ is a trademark of A.B Dental Devices Ltd.

ACE Infinity™ and TRI-CAM™ are trademarks of ACE Surgical Supplies Co.

Adin™ and Toureg™ and CloseFit™ are trademarks of Adin Dental Implant Systems Ltd.

Biohorizons® is a registered trademark of Biohorizons Inc.

Blue Sky Bio™ and BioMax NP™ are registered trademarks of Blue Sky Bio.

Hahn™ is a registered trademark of Prismatic Dentalcraft Inc.

Implant Direct™, InterActive™, Swishactive™, and Legacy™ are trademarks of Implant Direct

Locator® is a registered trademark of Zest IP Holdings

MIS™ and 7™ and C4™ are trademarks of MIS Implants Technologies LTD

Nobel™ is a trademark of Nobel Biocare Services AG

NobelActive® is a registered trademark of Nobel Biocare Services AG

NobelBiocare™ is a registered trademark of the Nobel Biocare Services AG

NobelReplace® is a registered trademark of the Nobel Biocare Services AG

Replace Select Services AG is a trademark of Nobel Biocare Services AG

RePLANT™ is a trademark of Implant Direct

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

Southern Implants®, Co-Axis® and TriNex®, are registered trademarks of Southern Implants

Strauman® is a registered trademark of Institut Straumann AG

Tissue Level™ is a trademark of Institut Straumann AG

Zest® is a registered trademark of Zest IP Holdings

Zimmer® is a registered trademark of Zimmer Group