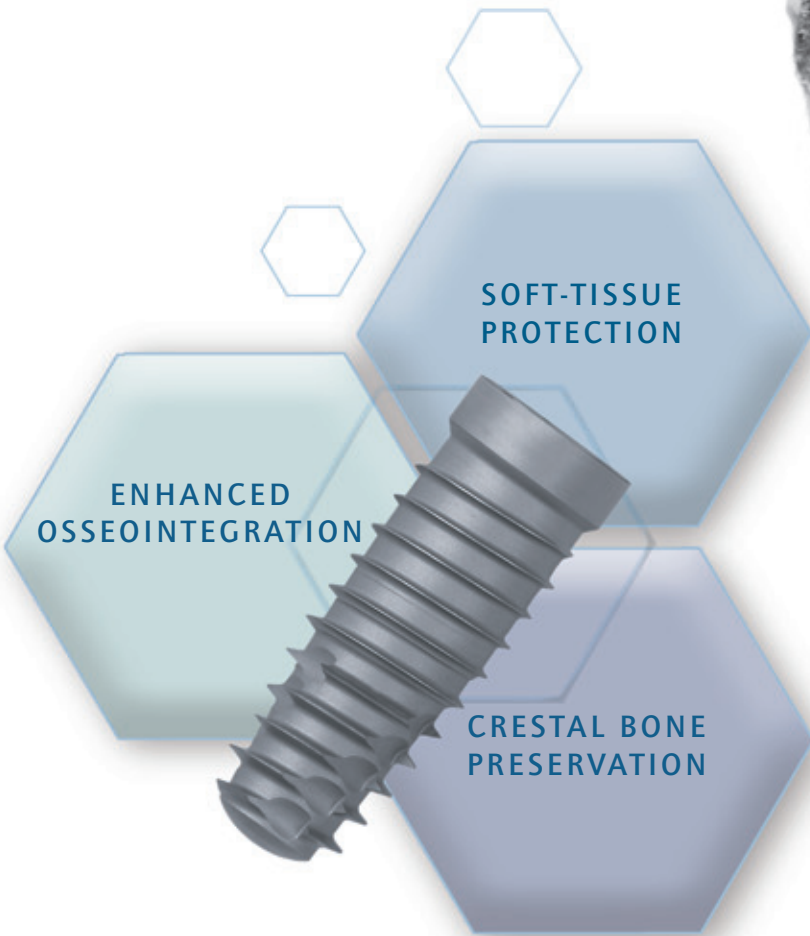


*The PREVAIL[®]
Implant System*

**PRESERVATION
BY DESIGN**





PRESERVATION IS KEY TO AESTHETICS

Challenges to aesthetic outcomes:

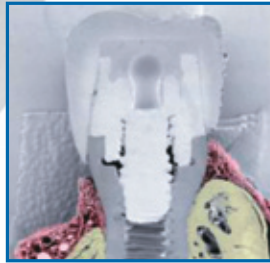


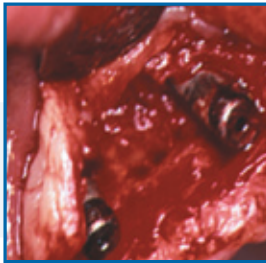
Image courtesy of
Dr. Kazuto Makigusa,
Osaka, Japan.

Crestal Bone Loss

Average implant crestal bone loss can exceed 1.5mm during the first year of function, leading to compromised aesthetics.¹

Peri-implantitis

The prevalence of implants experiencing peri-implantitis has been reported in excess of 12%.^{2,3}



Suboptimal Outcomes

Soft-tissue recession impacts patient satisfaction.

Compromised Osseointegration

Implants lacking a complex surface topography⁴ and primary stability have been found to yield lower rates of osseointegration.⁵



Note the lack of bone-to-implant contact

1. Lazzara RJ*, Porter SS. Platform switching: A new concept in implant dentistry for controlling post restorative crestal bone levels. Int J Periodontics Restorative Dent 2006;26:9-17.
2. Fransson C, Lekholm U., Jemt T., Berglundh T. Prevalence of subjects with progressive bone loss at implants. Clinical Oral Implants Research 2005;16: 440-446.
3. Zitzmann NU. & Berglundh T. Definition and prevalence of peri-implant diseases. Journal of Clinical Periodontology 2008; 35: 286-291.
4. Sullivan DY, Sherwood RL, Porter SS. Long-term performance of Osseotite® Implants: A 6-year follow-up. Compendium 2001 Apr;Vol.22, No.4.
5. Javed F, Romanos GE. The role of primary stability for successful immediate loading of dental implants. A literature review. J Dent. 2010 Aug;38(8):612-20. Epub 2010 Jun 11.

PREVAIL[®] - Preservation By Design

An implant system with integrated platform switching engineered to deliver aesthetic outcomes through tissue preservation.



PRESERVATION BY DESIGN

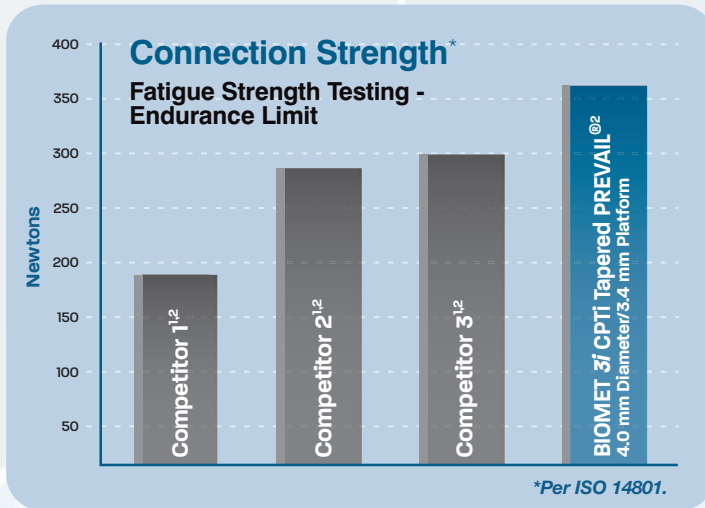


Soft-Tissue Protection

Through The Certain® Internal Connection Design

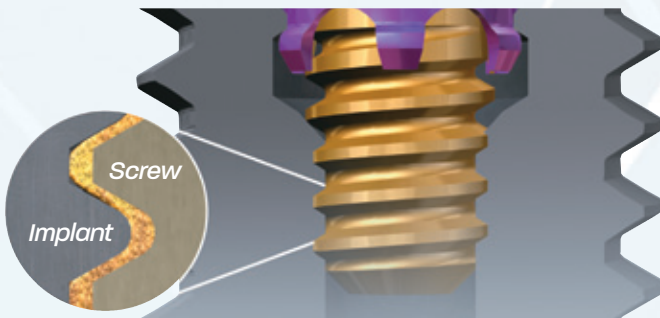
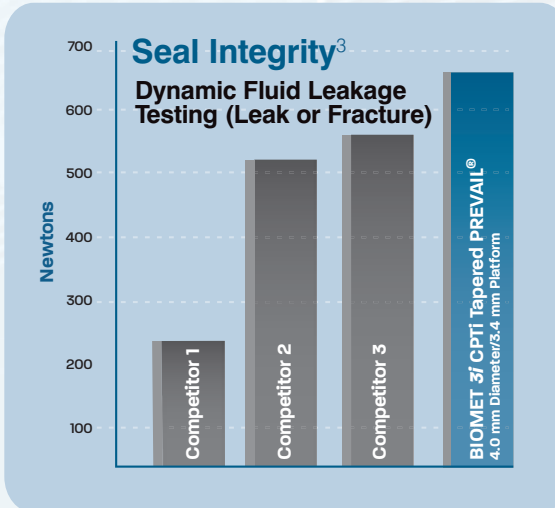
45%

Higher fatigue strength² as compared to competitive average
Unique connection designed to provide strength and durability through deep internal engagement



50%

Higher seal strength² as compared to competitive average
Designed to reduce microleakage through exacting interface tolerances and maximized clamping forces



Gold-Tite® Surface lubricates and compresses to provide a tighter fit between implant components

113%

Increase in clamping force vs. non-coated screw⁴
Patented Gold-Tite® Screw increases clamping force to maximize abutment stability.



1. Competitor Reference Materials.
 2. Baumgarten H¹, Meltzer A¹. Improving outcomes while employing accelerated treatment protocols within the aesthetic zone: From single tooth to full arch restorations. Presented at the Academy of Osseointegration, 27th Annual Meeting; March 2012; Phoenix, AZ.
 3. Suttin Z¹, Towse R¹, Cruz J¹. A novel method for assessing implant-abutment connection seal robustness. Poster Presentation 188: Academy Of Osseointegration, 27th Annual Meeting; 2012 March 1-3; Phoenix, Arizona.
 4. Byrne D, Jacobs S, O'Connell B, Houston F, Claffey N. Preloads generated with repeated tightening in three types of screws used in dental implant assemblies. J. Prosthodont. 2006 May-Jun;15(3):164-71.

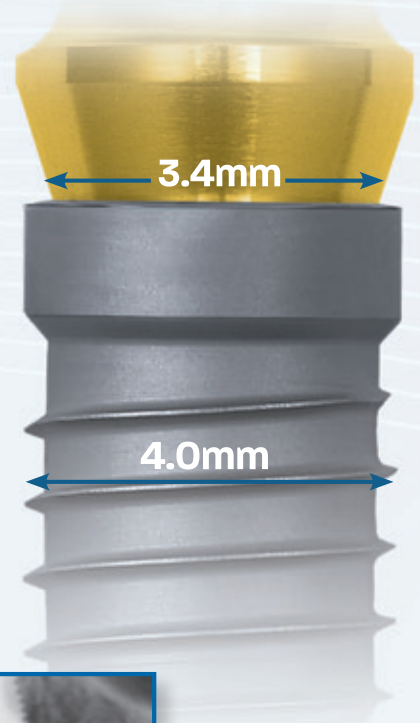
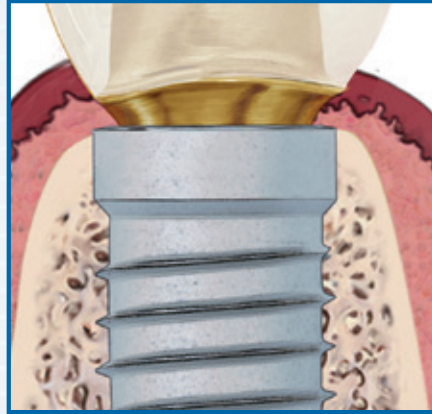
Comes Together

Crestal Bone Preservation Through Integrated Platform Switching

0.37mm

Crestal bone loss

Studies have shown that implants with the PREVAIL® integrated platform switching feature demonstrated crestal bone loss as low as 0.37mm.⁵



50%

Reduction in crestal bone remodeling vs. non-platform-switched implants⁶

Medialized implant-abutment junction provides support for connective tissue



Definitive restoration at the 24-month follow-up visit



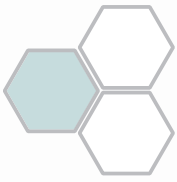
Periapical radiograph taken at the time of implant placement



Periapical radiograph taken at the 24-month follow-up visit

Clinical case images courtesy of Dr. Pär-Olov Östman, Falun, Sweden.

5. Östman PO¹, Wennerberg A, Albrektsson T. Immediate occlusal loading of NanoTite Prevail Implants: A prospective 1-year clinical and radiographic study. Clin Implant Dent Relat Res. 2010 Mar;12(1):39-47.
6. Boitel N, Andreoni C, Grunder U¹, Naef R, Meyenberg, K. A three year prospective, multicenter, randomized-controlled study evaluating platform-switching for the preservation of peri-implant bone levels. Poster presentation P83: Academy of Osseointegration, 26th Annual Meeting: 2011 March 3-5; Washington DC.



PREVAIL
BY DESIGN


Enhanced Osseointegration

The PREVAIL® Implant System is designed for osseointegration, peri-implantitis risk mitigation and increased primary stability.

OSSEOTITE® And NanoTite™ Surface Topography

Two well-researched surface options for bone apposition.

Osseointegration

 Surface topography targets bone apposition and early healing

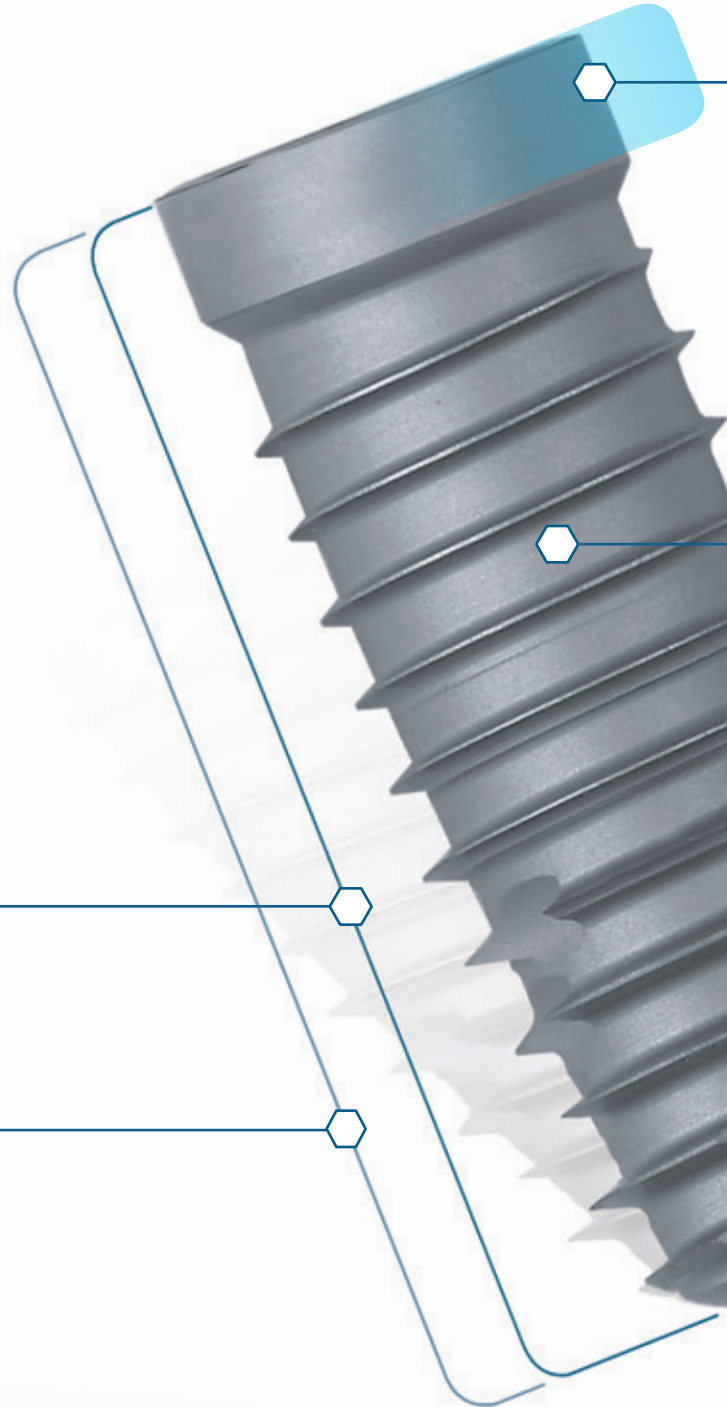
NanoTite™: Nanoscale Topography

Discrete Crystalline Deposition (DCD) of nano-scale calcium phosphate – renders the NanoTite™ Implant a Bone Bonding®* Surface

OSSEOTITE®: Fine-Micron Topography

Dual Acid Etched 1–3 micron peak-to-peak surface for clot-to-implant attachment

*Bone Bonding® is the mechanical interlocking of the cement line matrix of bone with the implant surface.



osseointegration

Peri-implantitis risk mitigation

- ✓ Dual acid-etched topography at coronal aspect of the implant

Increased primary stability

- ✓ Macrodesign of the implant increases Initial Bone-to-Implant Contact (IBIC)

Commercially Pure Titanium (CPTi)

- ✓ Now available in OSSEOTITE® Configurations

Pre-clinical & Clinical Support

- ✓ In pre-clinical studies, the NanoTite™ DCD Surface demonstrated **increased integration throughout the early healing process.**¹
- ✓ Five-year study results on the OSSEOTITE® Dual Acid-Etched Surface presented **no increased risk of peri-implantitis or soft tissue complications versus a hybrid surface.**²
- ✓ Studies show that the macrodesign of the Tapered and Parallel Walled Implant reduces the risk of early micromotion, **optimizing primary stability.**^{3,4}

1. Lin A, Wang CJ, Kelly J, Gubbi P, Nishimura I. The role of titanium implant surface modification with hydroxyapatite nanoparticles in progressive early bone-implant fixation in vivo. Int J Oral Maxillofac Implants 2009 Sep-Oct;24(5):808-816.
2. Zetterqvist et al. A prospective, multicenter, randomized controlled 5-year study of hybrid and fully etched implants for the incidence of periimplantitis. J Periodontol April, 2010.
3. Östman PO, Wennerberg A, Ekström M, et al. Immediate occlusal loading of NanoTite™ Tapered Implants: A prospective 1-year clinical and radiographic study. Clin Implant Dent Relat Res 2012 Jan 17. [Epub ahead of print]
4. Block MS. Placement of implants into fresh molar sites: Results of 35 cases. J Oral Maxillofac Surg. 2011 Jan;69(1):170-4.

Ordering Information

(D) = Diameter
(P) = Platform

NanoTite™ Tapered Certain® PREVAIL® Implants

LENGTH	4.0mm (D) x 3.4mm (P)	5.0mm (D) x 4.1mm (P)	6.0mm (D) x 5.0mm (P)
8.5mm	NIITP4385	NIITP5485	NIITP6585
10.0mm	NIITP4310	NIITP5410	NIITP6510
11.5mm	NIITP4311	NIITP5411	NIITP6511
13.0mm	NIITP4313	NIITP5413	NIITP6513
15.0mm	NIITP4315	NIITP5415	NIITP6515

OSSEOTITE® Tapered Certain® PREVAIL® Implants

4.0mm (D) x 3.4mm (P)	5.0mm (D) x 4.1mm (P)	6.0mm (D) x 5.0mm (P)
XIITP4385	XIITP5485	XIITP6585
XIITP4310	XIITP5410	XIITP6510
XIITP4311	XIITP5411	XIITP6511
XIITP4313	XIITP5413	XIITP6513
XIITP4315	XIITP5415	XIITP6515

* Please consult your BIOMET 3i Sales Representative for non-platform switched implant options.

NanoTite™ Certain® PREVAIL® Implants

LENGTH	4.0mm (D) x 3.4mm (P)	5.0mm (D) x 4.1mm (P)
8.5mm	NIIOS4385	NIIOS5485
10.0mm	NIIOS4310	NIIOS5410
11.5mm	NIIOS4311	NIIOS5411
13.0mm	NIIOS4313	NIIOS5413
15.0mm	NIIOS4315	NIIOS5415

OSSEOTITE®2 Certain® PREVAIL® Parallel Walled Implants

4.0mm (D) x 3.4mm (P)	5.0mm (D) x 4.1mm (P)	6.0mm (D) x 5.0mm (P)
XIIOS4385	XIIOS5485	XIIOS6585
XIIOS4310	XIIOS5410	XIIOS6510
XIIOS4311	XIIOS5411	XIIOS6511
XIIOS4313	XIIOS5413	XIIOS6513
XIIOS4315	XIIOS5415	XIIOS6515

* Please consult your BIOMET 3i Sales Representative for non-platform switched implant options.

Tissue Preservation Meets Custom Restorative Options

NEW

Restorative Options For The PREVAIL® Implant



BellaTek™ Encode® Healing Abutments



PreFormance® Posts and Cylinders



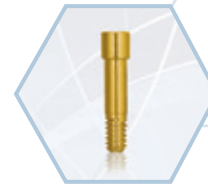
Impression Copings



GingiHue® Abutments



BellaTek™ Abutments



Gold-Tite® Retaining Screws

Including 3.4mm Restorative Options For The Aesthetic Zone

For More Information, Please Contact Your Local BIOMET 3i Sales Representative

†Aforementioned have financial relationships with BIOMET 3i LLC resulting from speaking engagements, consulting engagements and other retained services.



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