

**Want More
Treatment Options?
Plan For Immediate
Primary Stability**



**Comprehensive
Treatment**

**Enhanced
Knowledge**

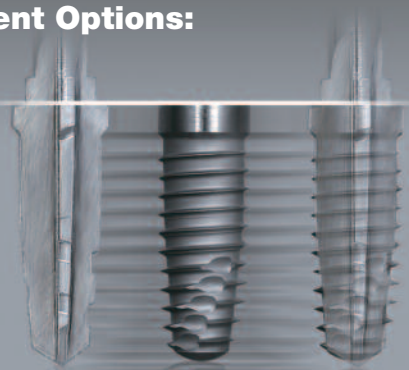
**Business
Excellence**



Expand Your Options With The **BIOMET 3i™ Tapered Implant System**

The Solution Designed To Provide Clinicians With More Treatment Options:

- **A Single Implant System For Immediate* Or Delayed Loading Protocols**
- **Surgical Instrumentation Engineered For Immediate Primary Stability**
- **Innovative Thread Design Produces A “Bite-In-Bone”**



Providing **Clinicians One Solution At A Time With The Tapered Implant System**

- **Platform Switching With Tapered PREVAIL® Implants Designed To Assist In Bone Preservation**
- **Full Surfaced NanoTite™ And OSSEOTITE® Implants Designed To Assist In Bone Adherence**
- **NanoTite Implants For A Bone Bonding®** Surface**

*BIOMET 3i OSSEOTITE and NanoTite Dental Implants are intended for immediate function on single tooth and/or multiple tooth applications when good primary stability is achieved, with appropriate occlusal loading, in order to restore chewing function.

**Bone Bonding is the interlocking of the newly formed cement line matrix of bone with the implant surface.

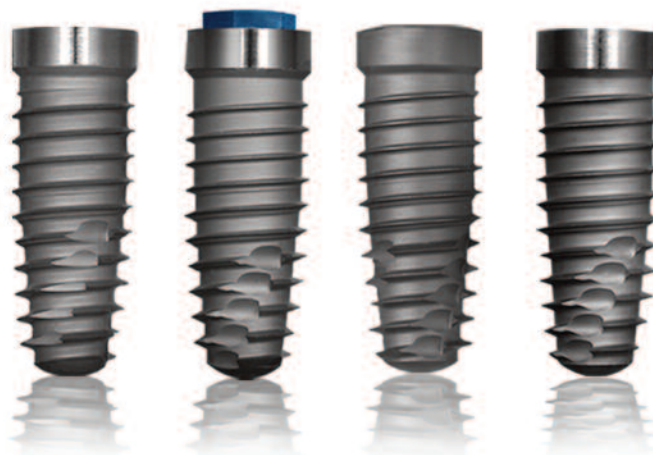
BIOMET 3i™
PROVIDING SOLUTIONS - ONE PATIENT AT A TIME™

The BIOMET 3i™ Tapered Implant – Primary Stability Starts With Design

Each element of the BIOMET 3i Tapered Implant System is designed for primary stability and accurate placement. Quad-Shaping Drills (QSDs), Depth/Direction Indicators (NTDIs), Bone Taps and Implants have been engineered to provide for accurate osteotomy creation and implant placement. With the implant's uniform thread design to the apex and an intimate fit within the bone, initial bone-to-implant contact along the full length of the implant is improved to establish primary stability. Additionally, with its true tapered shape, the Tapered Implant more closely approximates the shape of a natural tooth.

The combination of these features provides clinicians with treatment options for cases to include:

- **Immediate And Accelerated Loading Protocols**
- **Immediate Placement In Extraction Sockets**
- **Sites With Convergent Roots Of Adjacent Teeth**
- **Cases With Ridge Concavities**
- **Simultaneous Grafted Sites And Implant Placement**
- **Implant Placement With Sinus Lift Procedures**
- **Aesthetic Areas Where Bone Preservation Is Desired (PREVAIL® Configuration)**
- **Locations Requiring Short Or Wide Implants**
- **Soft Bone (Type IV)**



“Quad-Shaping Drills improve the precision of the osteotomy. Depth indicators allow me to simulate the ultimate position of the implant in the prepared osteotomy. The combined use of these instruments can minimize placement sensitivity of the implant.”

-Dr. Karl Heggland, USA

The Tapered Implant System In A Clinical Scenario

Extraction And Immediate Implant Placement Of A 5mm x 13mm

Tapered NanoTite™ Implant In The Anterior Mandible

Images Courtesy Of Dr. Alan Meltzer, Voorhees, NJ

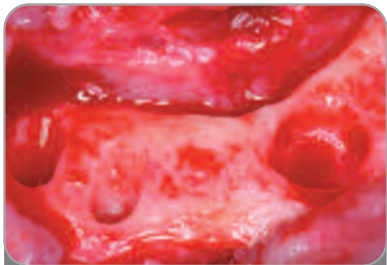


Fig. 1

Clinical image following soft tissue reflection and teeth extractions prior to implant placement.

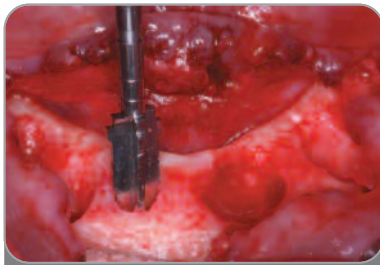


Fig. 2

Preparation of the osteotomy for tooth site No. 26 was completed with a 5mm(D) x 13mm(L) Quad-Shaping Drill (QSD). This photograph demonstrates the starting position of the 5mm QSD following use of the 4mm QSD and osteotomy verification with the 4mm Tapered Depth Indicator NTDI.

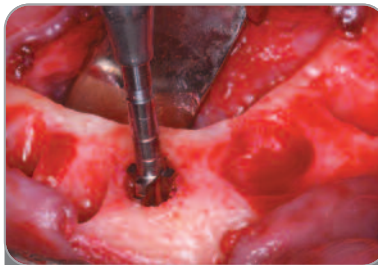


Fig. 3

Final 5mm(D) x 13mm(L) QSD advanced to the full predetermined depth. Note that the lingual portion of the osteotomy is slightly subcrestal, the mesial and distal is crestal and the facial is slightly supracrestal.

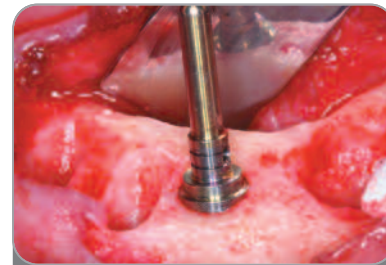


Fig. 4

A diameter and length specific 5mm(D) x 13mm(L) NTDI was used to verify proper preparation of the osteotomy.



Fig. 5

A 5mm(D) x 13mm(L) Dense Bone Tap was used to thread the osteotomy prior to implant placement in tooth site No. 26.



Fig. 6

Image of the internal aspect of the osteotomy showing the threads created by the Dense Bone Tap.

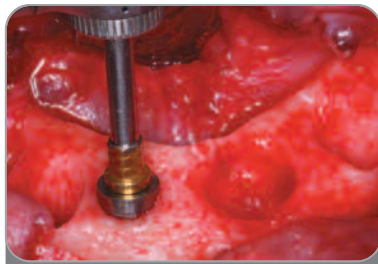


Fig. 7

A 5mm(D) x 13mm(L) NanoTite Tapered Implant placed into the prepared osteotomy.

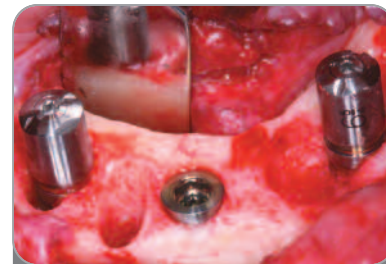


Fig. 8

Final positioning was accomplished with a hand ratchet to ensure primary stability followed by placement of Encode® Healing Abutments. Final torque reading registered in excess of 100Ncm demonstrating high primary implant stability.

Note: Confirmation of this was captured with an Implant Stability Quotient (ISQ) reading of 85.

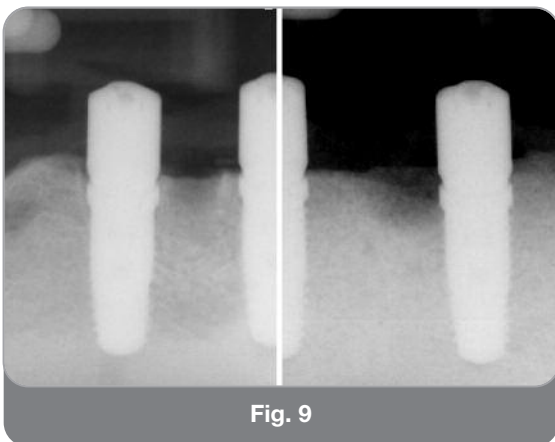


Fig. 9

Periapical radiographs taken at the time of implant placement.

Note: Radiographic evidence supporting bone-to-implant contact.

"It's an integrated system of implants, drills and instrumentation that is designed to deliver primary stability in various types of bone."

-Dr. Alan Meltzer, USA

Optimal Site Preparation, Confirmation And Fit Bring Primary Implant Stability Within Reach

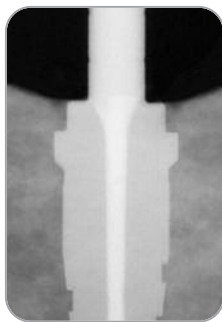
The specifications of the Tapered Implant and the corresponding QSDs and NTDIs are held to rigorous tolerances to provide a closely integrated implant-to-osteotomy fit, creating a dental implant system that helps the clinician achieve primary stability.

Because of the tight implant-to-osteotomy fit, the Tapered Implant may require reasonably high levels of insertion torque to seat completely within the osteotomy. Higher torque may be equated with higher primary stability.* Hand ratcheting the implant to the final position is often required.

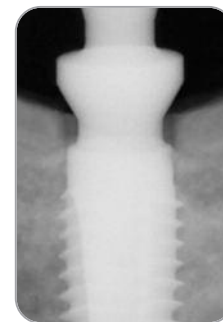
Therefore, when placing a Tapered Implant, the need to tap the osteotomy may occur, especially in dense bone (Type 1). To facilitate placement, **BIOMET 3i**™ developed a Bone Tap Kit with length and diameter specific taps that correspond with the thread angle and crest width of the implant.

*Glauser R, Portmann M, Ruhstaller P, et al. Initial Implant Stability Using Different Implant Designs and Surgical Techniques.

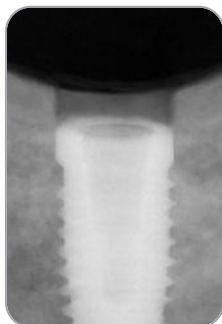
A comparative clinical study using insertion torque and resonance frequency analysis. Applied Osseointegration Research. Vol. 2, No. 1, 2001.



The stepped drill design allows for better visibility of crestal and subcrestal reference points. The four cutting flute design facilitates cutting stability and decreases friction between the drills and the osteotomy walls.



Corresponding NTDIs ensure appropriate depths and angles during osteotomy preparation. Bone taps reduce insertion torque in dense bone scenarios.



The Tapered Implant System Instrumentation prepares the osteotomy for full and complete seating of the implant helping to deliver initial Bone-to-Implant-Contact and primary implant stability.

Quad Shaping Drill (QSD)



Depth/Direction Indicator (NTDI)

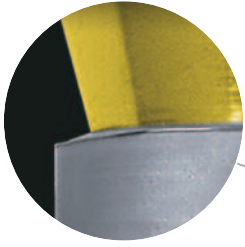
Dense Bone Taps



“The new site preparation drills are very efficient and the indicators are useful in determining proper implant positioning. Primary stability of the implant is enhanced by the ratio between the cylindrical and conical sections. The BIOMET 3i Tapered Implant is very versatile and could be the implant of choice for many different treatment options.”

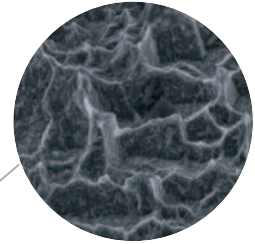
-Dr. Sergio De Paoli, Italy

Key Features Build The Foundation For Primary Stability



Built In Platform Switching

The NanoTite™ Tapered PREVAL® Implant incorporates built-in Platform Switching, which is designed to provide for crestal bone preservation around the implant.



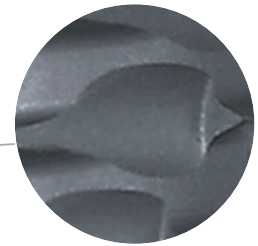
NanoTite Tapered Implant – A Bone Bonding® Surface

The complex architecture at the nano-scale renders the NanoTite Implant a Bone Bonding Surface by the interlocking of the newly formed cement line matrix of bone with the implant surface. Also available in OSSEOTITE® Dual Acid-etched Surface.



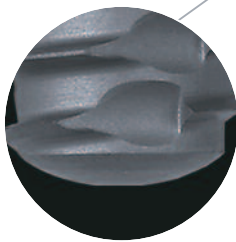
Unique Threads

The thread angle, depth and pitch produce an anchoring “bite-in-bone” response at the time of implant placement to achieve initial mechanical implant stability.



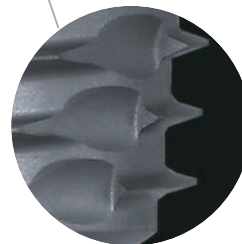
Cupped Recesses

Act as repositories for bone shavings, blood and growth factors potentially offering a “head start” to osseointegration.



Domed Shaped Apical End

reduces trauma in anatomic areas where implant placement may closely approximate vital structures.



Progressive Cutting Edges

in a helical pattern, with trailing thread relief make the implant threads self-tapping and help reduce torque to ease insertion.

Tapered Implant Ordering Information

OSSEOTITE® Tapered Implants				
Length	3.25mm (D)	4.0mm (D)	5.0mm (D)	6.0mm (D)
8.5mm	NT3285	NT485	NT585	NT685
10.0mm	NT3210	NT410	NT510	NT610
11.5mm	NT3211	NT411	NT511	NT611
13.0mm	NT3213	NT413	NT513	NT613
15.0mm	NT3215	NT415	NT515	NT615
Full OSSEOTITE Tapered Implants				
8.5mm	FNT3285	FNT485	FNT585	FNT685
10.0mm	FNT3210	FNT410	FNT510	FNT610
11.5mm	FNT3211	FNT411	FNT511	FNT611
13.0mm	FNT3213	FNT413	FNT513	FNT613
15.0mm	FNT3215	FNT415	FNT515	FNT615
OSSEOTITE Tapered Certain Implants				
8.5mm	INT3285	INT485	INT585	INT685
10.0mm	INT3210	INT410	INT510	INT610
11.5mm	INT3211	INT411	INT511	INT611
13.0mm	INT3213	INT413	INT513	INT613
15.0mm	INT3215	INT415	INT515	INT615
Full OSSEOTITE Tapered Certain Implants				
8.5mm	IFNT3285	IFNT485	IFNT585	IFNT685
10.0mm	IFNT3210	IFNT410	IFNT510	IFNT610
11.5mm	IFNT3211	IFNT411	IFNT511	IFNT611
13.0mm	IFNT3213	IFNT413	IFNT513	IFNT613
15.0mm	IFNT3215	IFNT415	IFNT515	IFNT615

NanoTite™ Tapered Implants				
Length	3.25mm (D)	4.0mm (D)	5.0mm (D)	6.0mm (D)
8.5mm	NNT3285	NNT485	NNT585	NNT685
10.0mm	NNT3210	NNT410	NNT510	NNT610
11.5mm	NNT3211	NNT411	NNT511	NNT611
13.0mm	NNT3213	NNT413	NNT513	NNT613
15.0mm	NNT3215	NNT415	NNT515	NNT615
NanoTite Tapered Certain® Implants				
8.5mm	NINT3285	NINT485	NINT585	NINT685
10.0mm	NINT3210	NINT410	NINT510	NINT610
11.5mm	NINT3211	NINT411	NINT511	NINT611
13.0mm	NINT3213	NINT413	NINT513	NINT613
15.0mm	NINT3215	NINT415	NINT515	NINT615
NanoTite Tapered Certain PREVAIL® Implants				
8.5mm	N/A	NIITP4385	NIITP5485	NIITP6585
10.0mm	N/A	NIITP4310	NIITP5410	NIITP6510
11.5mm	N/A	NIITP4311	NIITP5411	NIITP6511
13.0mm	N/A	NIITP4313	NIITP5413	NIITP6513
15.0mm	N/A	NIITP4315	NIITP5415	NIITP6515

Quad Shaping Drill Kits (QSD)	
Certain Quad Shaping Drill Surgical Kit For Tapered Implant	QNTSK40
Tapered Implant Quad Shaping Drill Upgrade Kit	QNTSK40U
Depth/Direction Indicator Kit (NTDI)	
Tapered Implant Depth/Direction Indicator Kit	NTDIK
Dense Bone Tap Kit (NTAPK)	
Tapered Implant Dense Bone Tap Kit	NTAPK

BIOMET 3i
4555 Riverside Drive
Palm Beach Gardens, FL 33410
1-800-342-5454
Outside The U.S.: +1-561-776-6700
Fax: +1-561-776-1272
www.biomet3i.com

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SUBSIDIARIES

AUSTRALIA
 Phone: +61-2-9855-4444
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AUSTRIA
 Phone: +43-(0)6235-200-45
 Fax: +43-(0)6235-200-45-9

BELGIUM
 Phone: +32-2-5410290
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BRAZIL
 Phone: +55-11-5081-4405
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CANADA
 Phone: +514-956-9843
 Fax: +514-956-9844

FRANCE
 Phone: +33-1-41054343
 Fax: +33-1-41054340

GERMANY
 Phone: +49-721-255177-10
 Fax: +49-721-255177-73

IRELAND
 Phone: +353-1-800-552-752
 Fax: +44-1628-820182

JAPAN
 Phone: +81-66868-3012
 Fax: +81-66868-2444

KOREA
 Phone: +82-2-5678-550
 Fax: +82-2-5678-577

MEXICO
 Phone: +52-55-2282-0120
 Fax: +52-55-2282-0120 ext. 20

THE NETHERLANDS
 Phone: +31-(0)78-629-2800
 Fax: +31-(0)78-629-2801

NEW ZEALAND
 Phone: +64-508-122-221
 Fax: +64-508-133-331

NORDIC REGION
 Phone: +46-40-17-6090
 Fax: +46-40-17-6099

PORTUGAL
 Phone: +34-902-34-34-31
 Fax: +34-93-445-81-36
 +351-21-000-16-75

SPAIN
 Phone: +34-902-34-34-31
 Fax: +34-93-445-81-36

SWITZERLAND
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 Fax: +41-(0)44-200-76-01

U.K.
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 Fax: +571-620-6412

COSTA RICA
 Implantec S.A.
 Phone: +506-234-9043
 Fax: +506-224-7620

EL SALVADOR
 Dentimerc SA de CV
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 Impladent Dental Implants, LLC
 Phone: +30-2310-501-651
 Fax: +30-2310-862-090

ISRAEL
 H.A. Systems
 Phone: +972-3-6138777
 Fax: +972-3-6138778

HONG KONG
 Ositek Inc., Ltd.
 Phone: +852-8121-6601
 Fax: +852-3747-3754

ITALY
 Biomax spa
 Phone: +39-0444-913410
 Fax: +39-0444-913695

MIDDLE EAST
 3i MENA s.a.l.
 Middle East And North Africa
 Phone: +961-1-694000
 Fax: +961-1-694222

PARAGUAY
 Andres H. Arce y Cia SRL
 Phone: +595-21-208185
 Fax: +595-21-496291

POLAND
 Dental Depot Wasio
 Phone: +48 71 335 70 71
 Fax: +48 71 335 70 90

RUSSIA
 Com-Dental
 Phone: +7-495-580-3080
 Fax: +7-495-580-3081

SINGAPORE
 Asia Implant Support & Services
 Phone: +65-6223-2229
 Fax: +65-6220-3538

SOUTH AFRICA
 Selective Aesthetics
 Phone: +27-11-991-7068
 Fax: +27-11-672-1391

TAIWAN
 Kuo Hwa Dental Suppliers Co., Ltd.
 Phone: +886-2-2226-1770
 Fax: +886-2-2226-8747

THAILAND
 3i (Thailand) Co., LTD.
 Phone: +662-252-6685
 Fax: +662-252-6686

TURKEY
 Tamer Med. A.S.-Turkey
 Phone: +90-212-465-3352
 Fax: +90-212-465-3502

UKRAINE
 Victoria Premium
 Phone: +38-044-331-10-09
 Fax: +38-044-331-10-70

URUGUAY
 Pro3implant S.R.L.
 Phone: +598-2-4034163
 Fax: +598-2-4034163

VIETNAM
 D.O.E.
 (Dentistry Of Excellence Vietnam)
 Phone: +84 89 25 37 03
 Fax: +84 89 25 37 00

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