

Developed By P-I Brånemark



SIMPLE EXPERIENCE FOR EXCEPTIONAL OUTCOMES

Enhanced Biological Metrics to unlock immediate replacement potential



UNIQUENESS

The multiplicity of interpolated core transitions associated with the P-I Conical Drills site preparation, and the gradual evolution of the pronounced depth cutting threads, are responsible for a gentle implant-to-osteotomy engagement in all sections independently.

These unique geometrical combinations provide greater initial contact area with significantly less bone displacement and compression enhancing the Biological Metrics.









Less compression • Progressive torque • Greater area

MT-F displaces significantly less bone volume and achieves similar or higher Insertion Torque Value in all bone densities, exhibiting greater area in comparison to the leading competitive tapered-active implants of similar dimensions. Data on file.

Less bone displacement

Cutting threads • Pronounced depth in all sections



Increased coronal space
Slightly inward flange

Cortical stability
Micro Patterns

Adaptive bone contact Interpolated core transitions

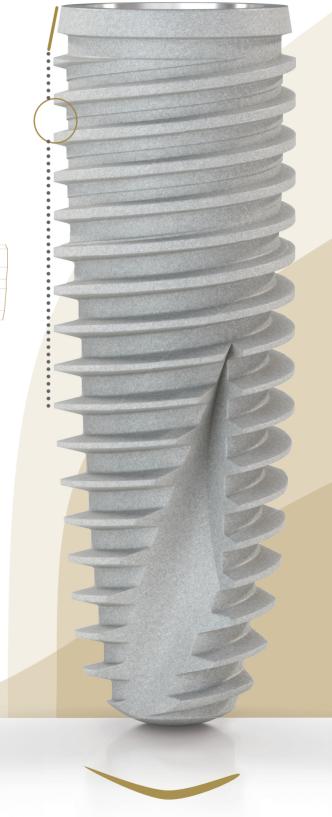
Gradual thread evolution

Pronounced depth in all sections

Early engagement

Gentle cutting • Dual thread

Axial insertion control Biological Width positioning





One Interface

Various prosthetic platforms

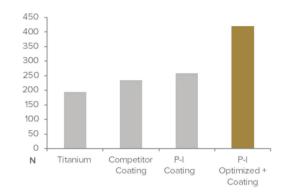


High Pre-Load

Effective sealing







Easy reversibility

Low stress to peri-implant tissues



Sealing starts at provisionalization

P-I Coating+ is a biocompatible layer that reduces friction and, combined with the MT Screw optimized geometry, provides a substantially higher and homogeneous preload, clamping, in comparison to titanium screws and the leading coating at the same tightening torque of 25 Ncm. Data on file. MT Retriever is used to cancel the morse sealing and safely remove Abutments.



DoubleSealingSystem stability

In clinical use for 15+ years • Superior biomechanics • Double Sealing

The P-I Morse Taper is an original technology. Highlighting 8.5° x 2 conical indexed, 3mm long, the P-I MT Interface offers a high torsional yield and fatigue strength as compared to other leading systems and was even adopted by a global leader. The MT-F \emptyset 3.3 Implant can withstand static load of approximately 600N. Data on file.

The high-preload Double Sealing mechanism has easy prosthetic reversibility, seals the Abutment on the MT Interface and the MT Screw on the Abutment, stabilizing the system, minimizing micromovement and microleakage in comparison to certain leading systems under simulated occlusal stress. The Double Sealing is an important hypothesis for the clinical consideration of MT-F Implant placement observing Biological Width principles.

Strong Osseointegration

REDUCTION OF BIOFILM INFECTIONS

BIOACTIVE





Improved bone response

In comparison to rougher oxidized and blasted surfaces

Less bacterial adhesion

Equivalent to turned surfaces • Minimally rough

Chemically enhanced

Anodized • Bioactive ions









Widely documented

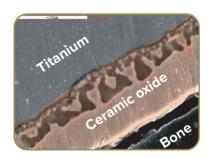
Evolution of moderately rough surfaces



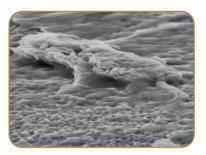


Direct and early response

Oxide, micropores and crystal structures greatly influence bone response



Biochemical bond, bone in-growth and mechanical interlocking



Courtesy of : YT Sul, A. Wennerberg, T. Albreaktsson

Surface chemistry, anodic oxidation and ion incorporation, enhance Osseointegration and compensate for minimal roughness

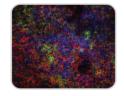
OSPOL Surface was developed in the Gothenburg University, Sweden, and is documented in several publications. In continual evolution since 2000 and in clinical use for over 15 years, the OSPOL Surface is a modern technology for a rapid and strong bone response. Less prone to bacterial adhesion, it is a pioneer technology for chemical modification of thin anodized, oxidized, ion incorporation of smoother implants surfaces.



Higher [ISQ] for chemicallymodified Surface

OSPOL Surface modification method achieves faster secondary Implant Stability Quotient [ISQ] measured by Resonance Frequency Analysis [RFA] indicating potential for shorter healing periods.

Less bacterial adhesion and biofilm formation







BIOACTIVE

• OSPOL Surface is easier to clean than rougher surfaces and its bioactivity reduces biofilm formation.

The bacterial adhesion is similar to turned, machined surfaces.

^(!) Some conditions, whether combined or not, represent contraindications, limitations and risks, relative and absolute, for the treatment of patients with implants. There are several risk factors in Osseointegration widely described in literature. [ISQ] is a critical factor to clinically monitor Osseointegration. Data from pre-clinical studies.

One Kit

Surgical & Prosthetic



Stainless Steel

BIOSAFETY

Easy, simplified installation

Maximum of 3 low speed steps



Conical Drills



Less friction. Less trauma

Constant apical conical angle • 3 cutting areas

Corrosion protection

Wear resistance • Diamond Like Carbon

State-of-the-art performance

Special P-I design • Swiss

Exceptional cutting performance

P-I Conical Drills' performance in dense bone, at the highest recommended rotation, without gradual diameter increments and applying constant feeding, present a very low friction coefficient range of 2 to 10 Ncm. Data on file.



Insertion Driver





^(!) The horizontal Implant Insertion Driver's mark is at approximately 3 mm and serves as a Biological Width vertical reference for Implant platform positioning when completely covered by the lowest point of the soft tissue, the gingival margin. Implant Insertion Driver dots and upper hexagon are indexed to the Implant's hexagonal index. When used with Torque Wrench, the upper hexagonal portion of the Implant Insertion Driver should be entirely connected to the hexagon of the Driver Adapter.







| Platform Ø | 3.3 | 3.5 | 3.9 | 4.6 |
|------------|--------|--------|--------|--------|
| h | | | | |
| 18 | | 172319 | | |
| 15 | 172297 | 172302 | 172384 | |
| 13 | 172296 | 172301 | 172383 | 172306 |
| 11.5 | 172295 | 172300 | 172382 | 172305 |
| 10 | 172294 | 172299 | 172381 | 172304 |
| | | | | |
| 8.5 | 172293 | 172298 | 172380 | 172303 |
| 7 | | 172318 | 172379 | 172321 |
| 6 | | 172317 | 172378 | 172320 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | 1 | |
| | 3 | 13 | 3 | - 3 |
| Implant C | 3.3 | 3.75 | 4.1 | 4.8 |
| Implant Ø | 3.5 | 3.73 | 7.1 | 4.0 |





• SURGICAL SEQUENCE





ITV

rpm 600 - 1,200 Lowest possible rpm

> ≤ **70 Ncm** Insertion Torque Value

Full Prepare at planned full length of Implant position

In-Out Coordinated in-and-out movement of Conical Drills

Irrigation Constant irrigation to the insertion margin of Conical Drills



(!) Drills are less than 1 mm longer than Drill marks

SURGICAL SEQUENCE -



^(!) Consult Instructions for Use. The subsequent Conical Drill, in terms of diameter, should be considered with a drilling depth of 6 mm, in order to not exceed 70 Ncm of insertion torque value. The use of Dense Drills (15 – 50 rpm) can also be considered to lower the insertion torque value.

Guided Surgery Drills consider a [9mm] offset and, when used with Drill stops, allow for limiting the total length of osteotomy with the objective of providing predetermined Drill length and orientation through the surgical guide.

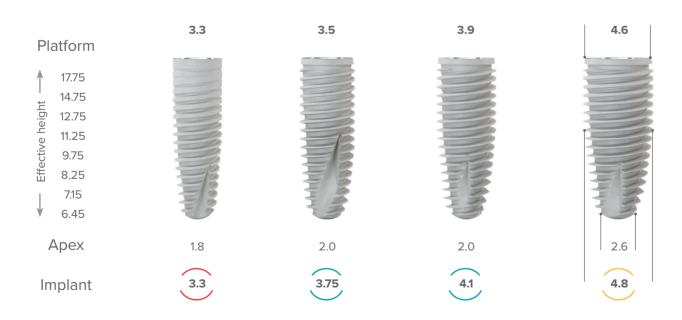
One interface

for all Implant dimensions





Dimensions



^(!) Consult Instructions for Use. Images are for illustrative purposes only. Measurements in millimeters.

Prosthetic Overview





Link C post has Dentsply Sirona, Cerec dimensions. Direct Geometries over Implant and Conical Abutment available.



(I) One Screw and Prosthetic Driver Ø 1.2 for all Abutments, except straight Conical Abutment and Locator®. All P-I Components are supplied with the respective screw.





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