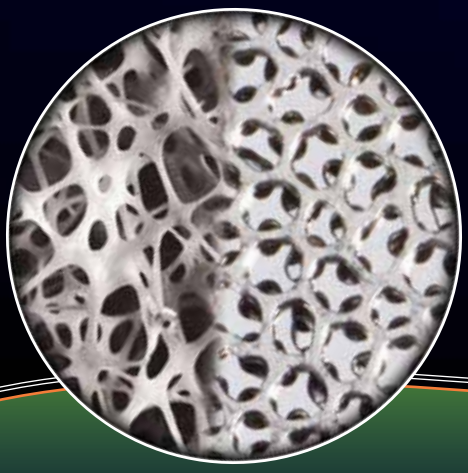
IdentiTi™

Posterior Oblique Porous Ti Interbody System

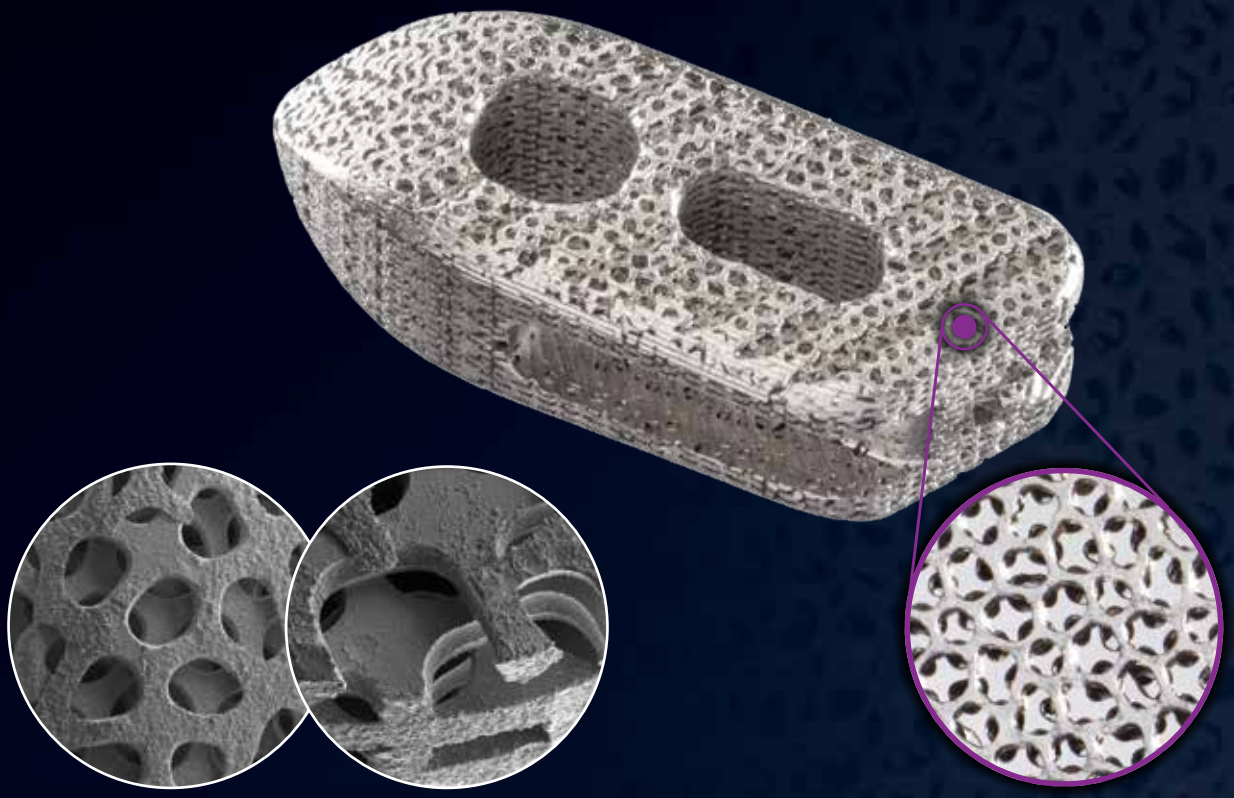


Redefining the way we approach fusion

IdentiTi™ Posterior Oblique Porous Ti Interbody System:

Redefining the way we approach fusion

Introducing ATEC's **IdentiTi** Posterior Oblique Porous Ti Interbody System leveraging a structure that mimics bone architecture and function. **IdentiTi-PO** is designed for the biological, biomechanical, and imaging characteristics that surgeons seek in a fusion construct.



Proprietary Pore Structure

Provides immediate implant stability and facilitates surface adhesion.

Fully Interconnected Porosity

Designed to mimic the structure of cancellous bone.

Manufacturing Excellence and Quality Processing

IdentiTi implants are made using a subtractive rather than additive manufacturing process that creates consistent and reproducible interconnected pores across the **IdentiTi** family.

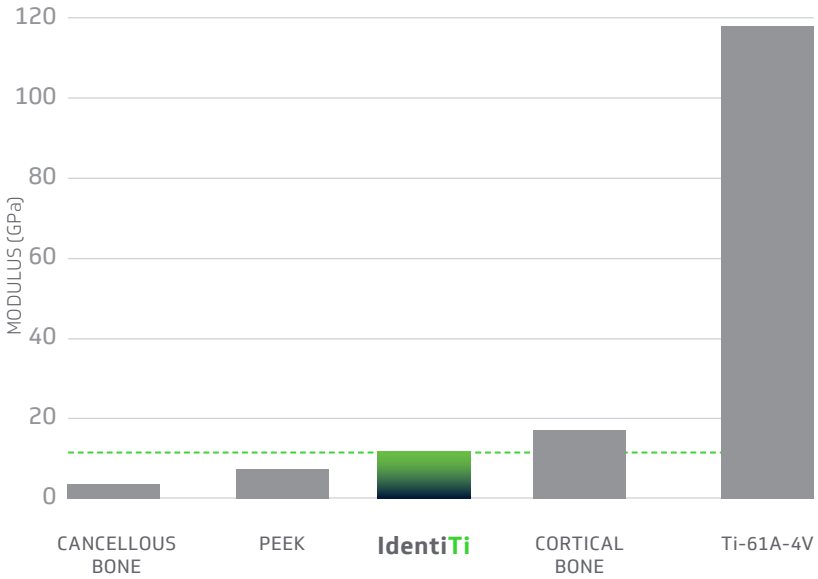
IdentiTi™ Implant Porosity

IdentiTi Implants, because of their porosity, have a surface roughness that enhances initial stability and an architecture designed for long-term stability.

Characteristic	Feature	Potential Benefit
Material	Commercially pure titanium (ASTM F67, Grade 2)	• Biocompatible, bone-friendly • Clinically proven in orthopaedic / dental industries
Porosity	58.8% through entire implant	• Enhances intra-op and post-op imaging characteristics • Large volume for bone fusion
Pore size	523 µm (434-660 µm)	• Consistent pore sizes designed to mimic cancellous bone
Pore interconnectivity	229 µm	• Interconnected architecture allows for surface adhesion
Macro-scale roughness (coefficient of friction)	1.07	• High macro-roughness increases initial stability
Effective modulus	8.8 GPa	• Low modulus • Flexible structure

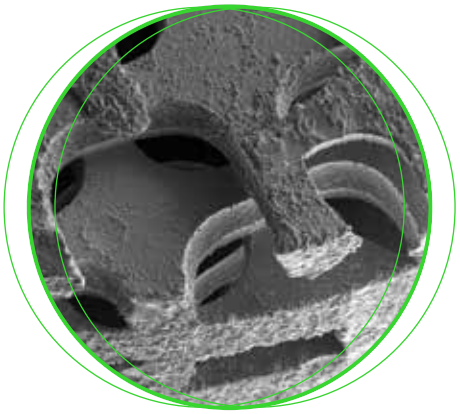
13x less
stiffness than Ti Alloy

IdentiTi porous titanium has a stiffness similar to bone.[1]

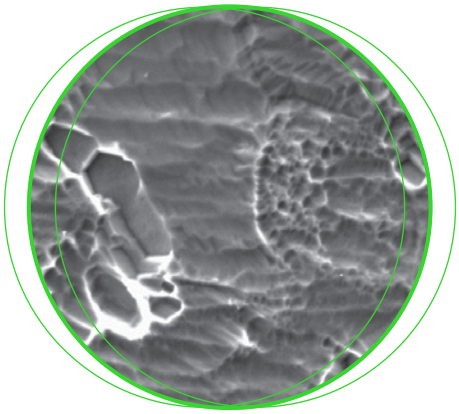


Initial Implant Stability: Surface Roughness

ATEC's **IdentiTi** Porous Ti Implants have a material topography with an increased coefficient of friction that improves initial mechanical stability and facilitates bone apposition.[2]

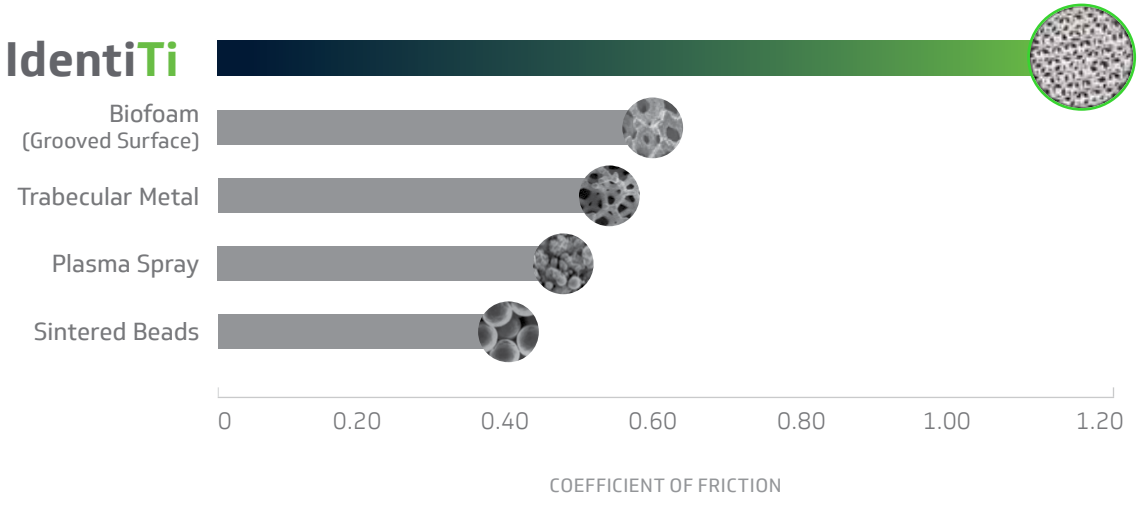


1,000X MAGNIFICATION



10,000X MAGNIFICATION

The coefficient of friction of **IdentiTi** is significantly greater than the reported values of competing materials when tested against simulated bone.[2]



Bone In-Growth Assessment in a Canine Model

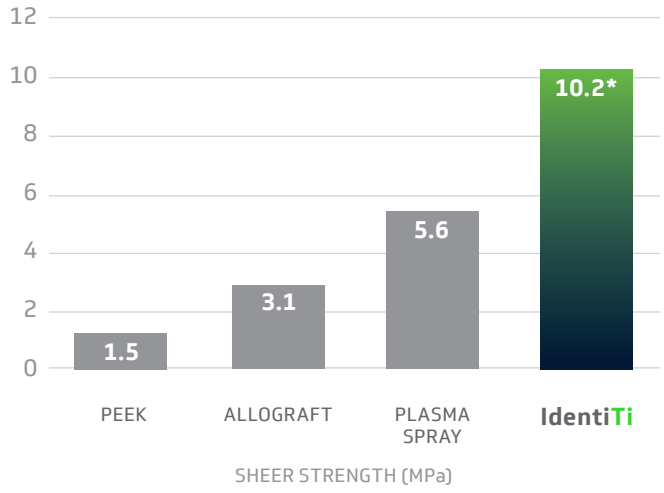
Bone in-growth was demonstrated in an animal model using qualitative assessment of trabecular and cortical bone growth into cylindrical pins of the porous titanium material.[3]

90-100%
Cortical bone in-growth

75%
Trabecular bone in-growth at 6 and 24 weeks[3]

CANINE IN-GROWTH STUDY

PORCINE CALVARIA PIN REMOVAL STUDY — 5 WEEKS[3]

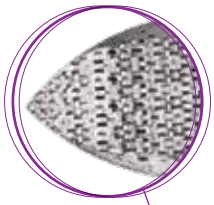


IdentiTi:

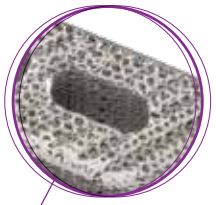
2x> Ti Plasma Spray

7x> PEEK

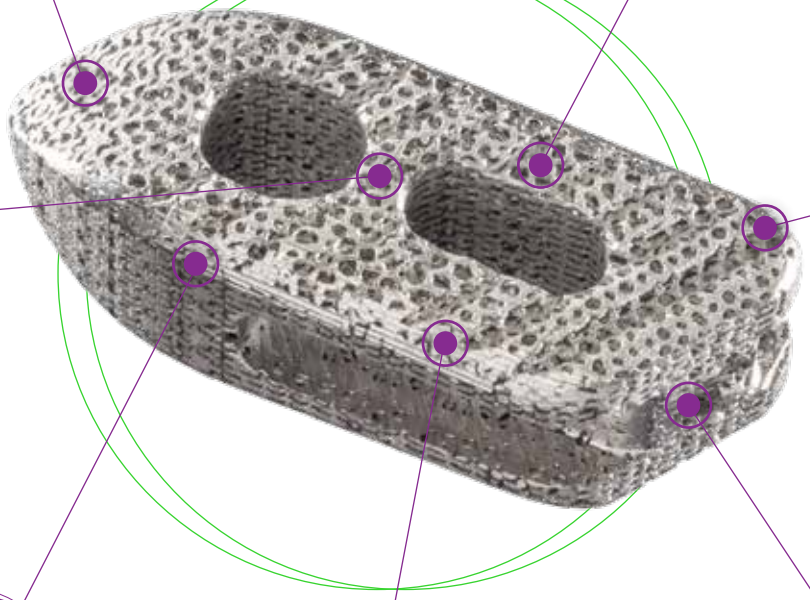
IdentiTi™-PO Porous Ti Interbody System

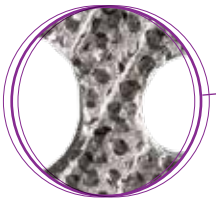


Self-distracting bulleted nose designed for ease of insertion

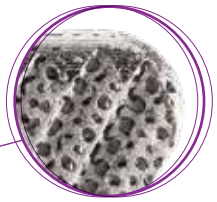


Designed to optimize endplate contact and graft volume

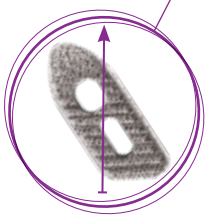




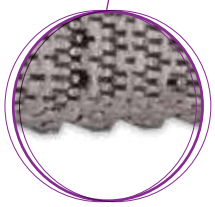
Lateral strut provides extra strength when performing an insert and rotate technique



Rounded edge protects soft tissue/nerve roots during insertion



Lordosis follows the oblique plane to better match natural endplate structure

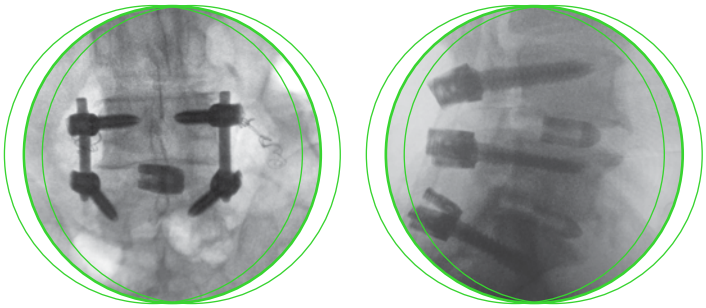


Directional anti-migration teeth on a porous material combine for smooth implant insertion with superior back-out characteristics

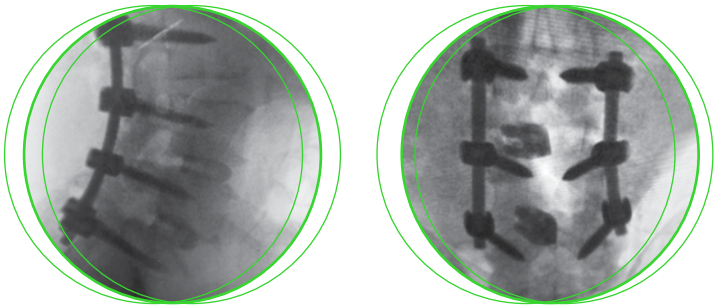
Quick connect inserter engagement provided by the ACME thread feature

IdentiTi™-PO Porous Ti Interbody Imaging

IdentiTi implants are 60% porous, reducing the density of material, enhancing intra-op and post-op imaging.



Plain Radiograph



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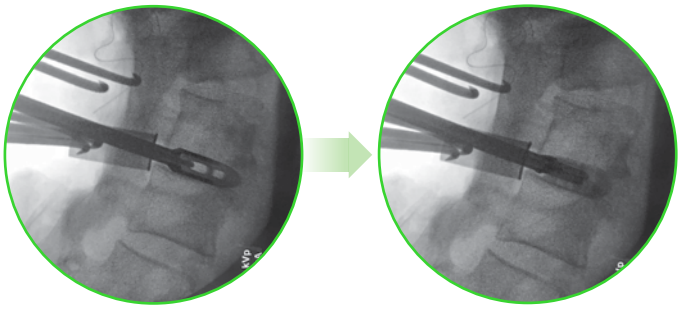
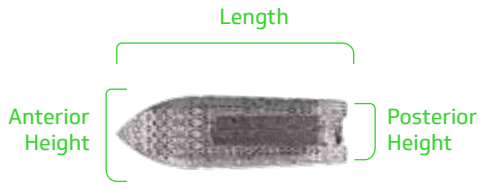
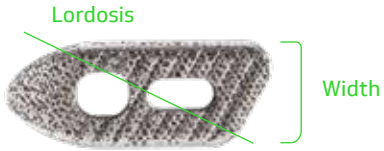


Visualization of Insert/Rotate Insertion Technique

IdentiTi-PO Porous Ti Interbody Spacer Offering



LATERAL VIEW



AXIAL VIEW

Lordosis Options:
- 5°
- 10°

Posterior Height Options:
- 7 - 15 mm

Anterior Height Options:
- 8 - 17 mm

Length Options:
- 25 mm
- 30 mm
- 35 mm

Width Options:
- 10 mm
- 12 mm

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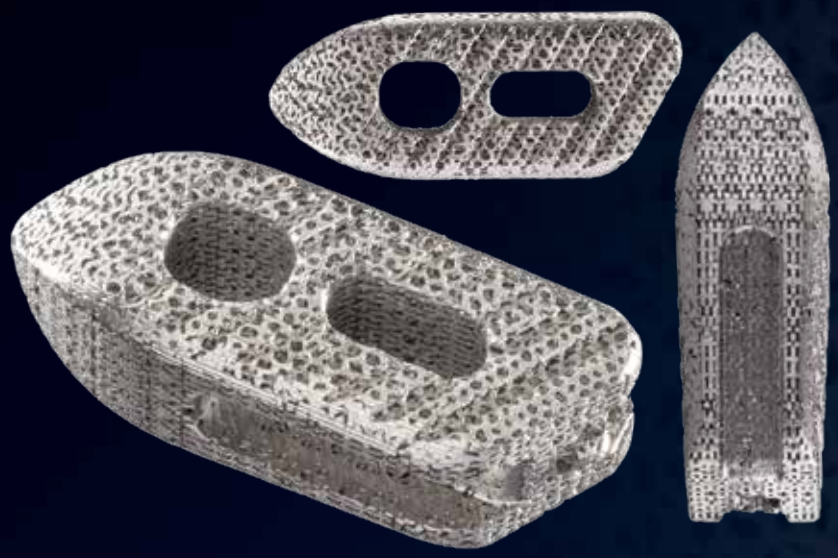

For more information, visit: ATECspine.com

- or -

contact customer service at: 800.922.1356

References:

1. *192007-001-43A The Friction Characteristics of OsteoSync™ Ti,* Sites Medical White Paper
2. *2007-001-40A Bone Ingrowth Performance of OsteoSync™ Ti,* Sites Medical White Paper
3. *Data on File*

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