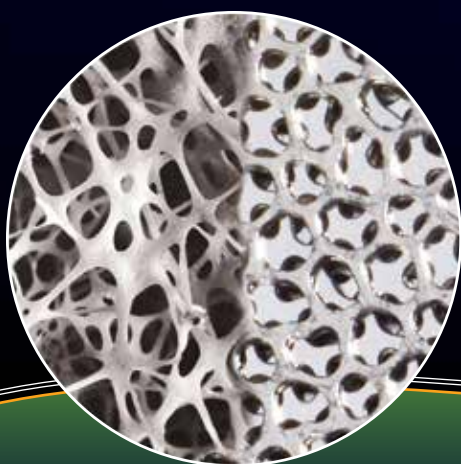
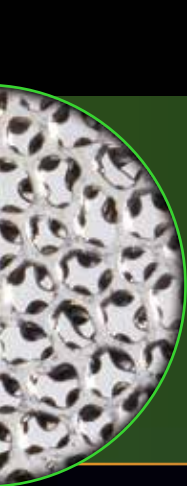


IdentiTiTM

Cervical Porous Ti Interbody System

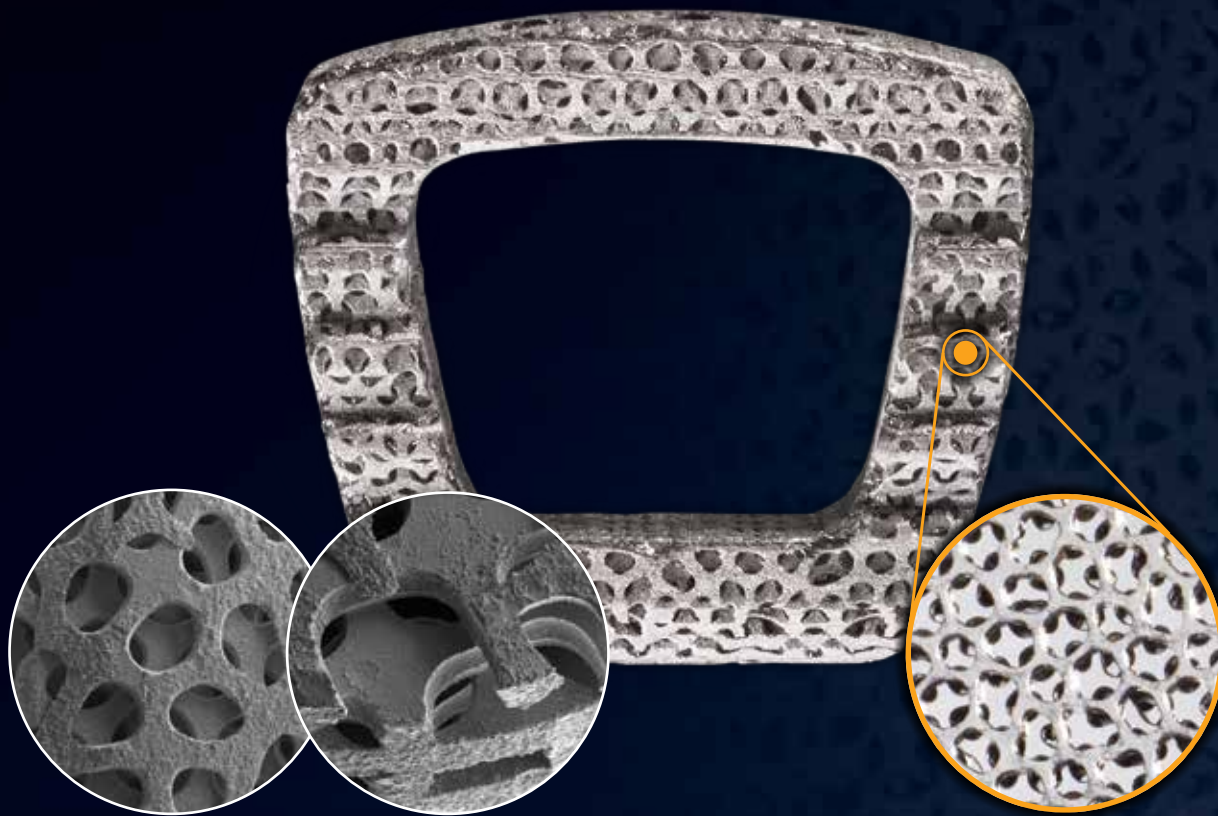


Redefining the way we approach fusion



IdentiTi™ Cervical Porous Ti Interbody System: *Redefining the way we approach fusion*

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



Proprietary Pore Structure

Provides initial 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

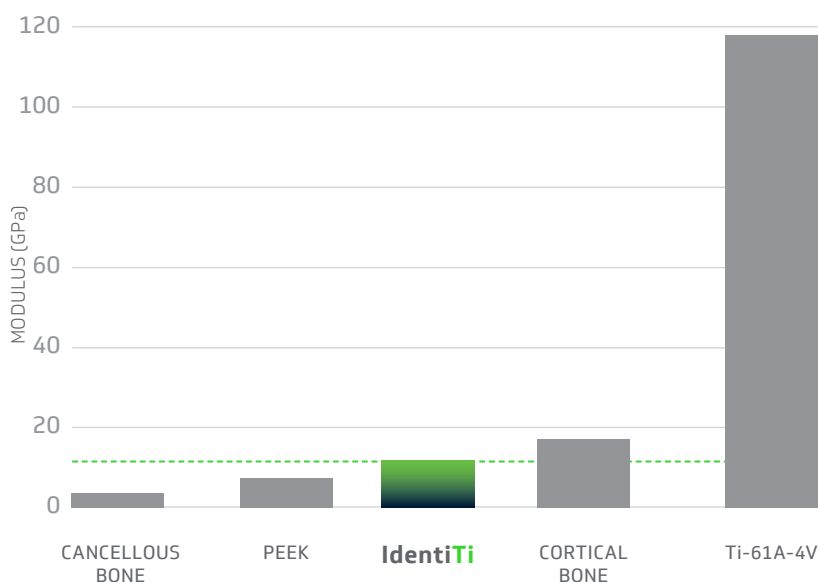
IdentiTi Implants, because of their porosity, have a surface roughness that enhances initial stability and an architecture designed for long-term stability.



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

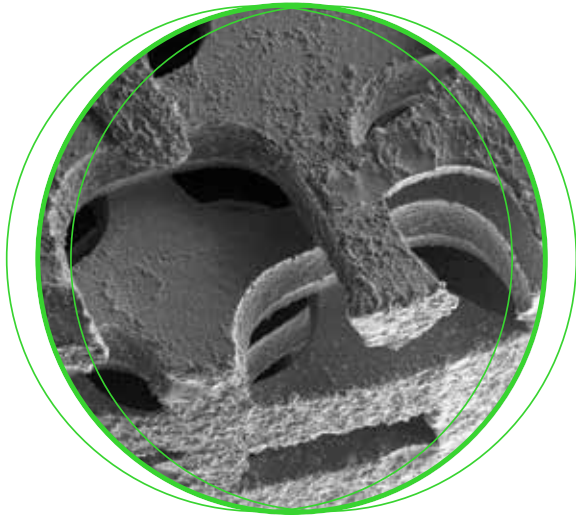
IdentiTi Implants
have a stiffness
similar to bone.¹



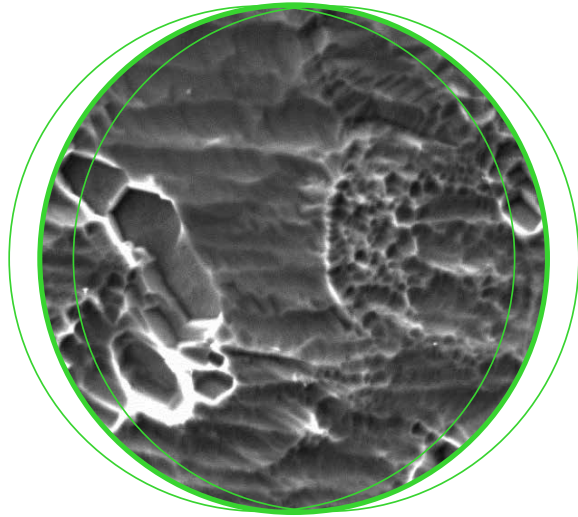


Initial Implant Stability: Surface Roughness

A TEC'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

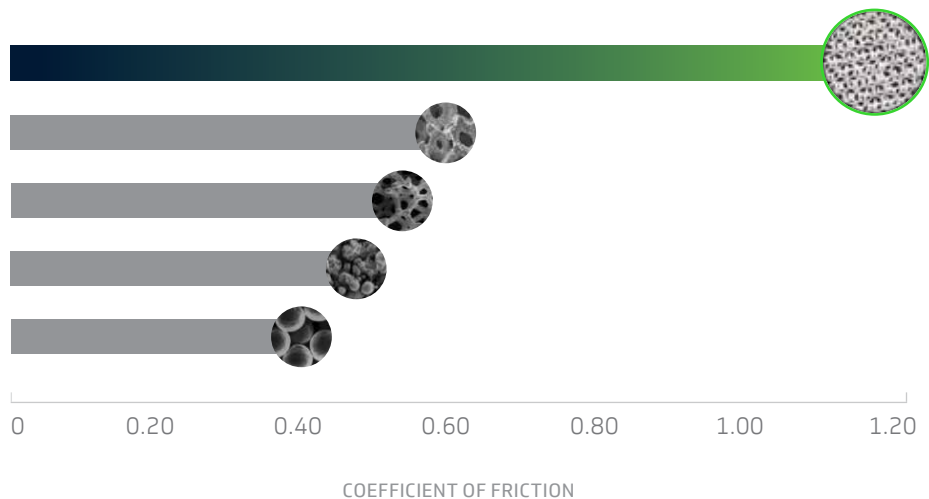
IdentiTi

Biofoam
(Grooved Surface)

Trabecular Metal

Plasma Spray

Sintered Beads



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%

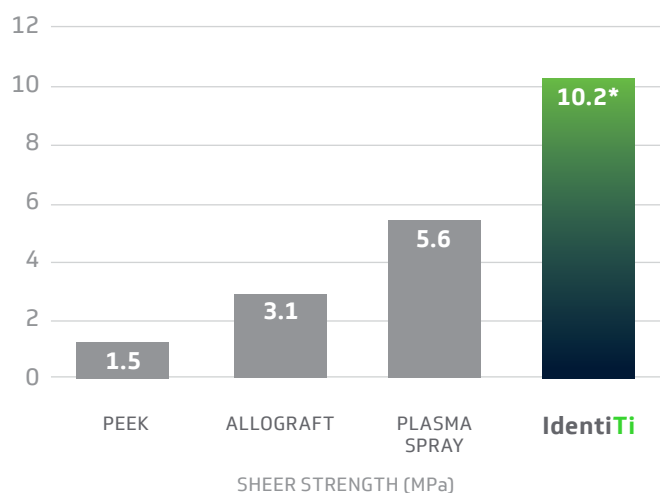
Trabecular bone in-growth
at 6 and 24 weeks³



6 WEEKS

CANINE IN-GROWTH STUDY

PORCINE CALVARIA PIN REMOVAL STUDY — 5 WEEKS³



IdentiTi:

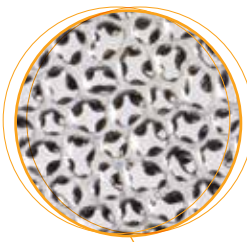
2x>

Ti Plasma Spray

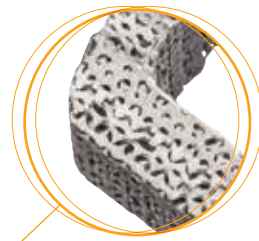
7x>

PEEK

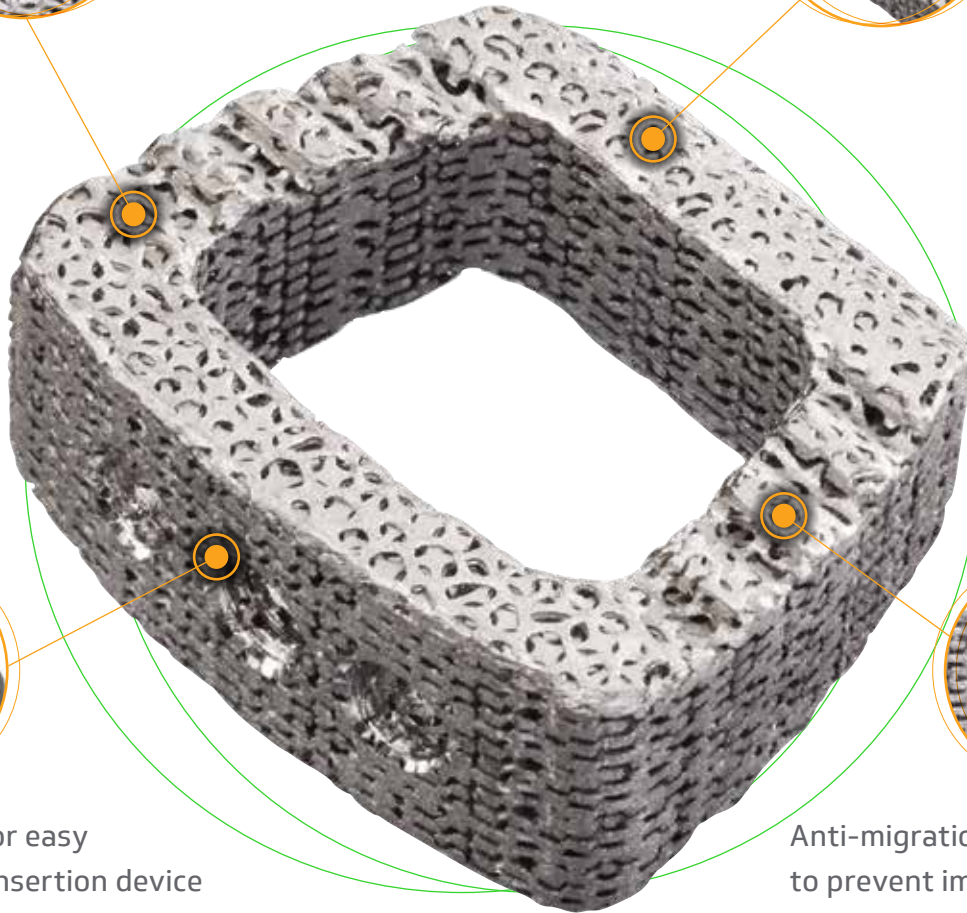
IdentiTi™-C Porous Ti Interbody System



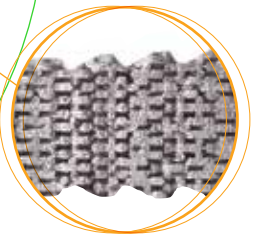
Consistent fully interconnected porosity throughout the implant, designed to mimic the structure and porosity of cancellous bone



Tapered posterior edge for ease of insertion



Threads allow for easy attachment to insertion device



Anti-migration teeth designed to prevent implant expulsion and maximize endplate contact

IdentiTi™-C Porous Ti Interbody Spacer Offering

Footprint dimension (w x d)

14 mm x 12 mm

16 mm x 14 mm

18 mm x 16 mm

20 mm x 16 mm



Lordosis

7°

7° & 10° & 15°

7° & 10° & 15°

7° & 10°



Depth

Lordosis

Anterior Height



Posterior Height

IdentiTi™-C Porous Ti Interbody Imaging

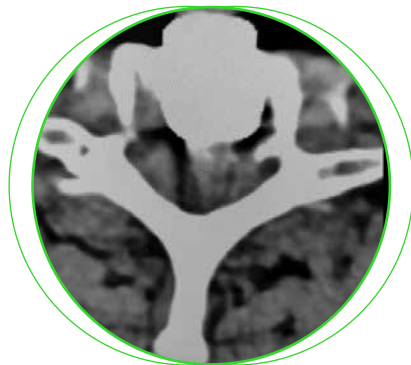
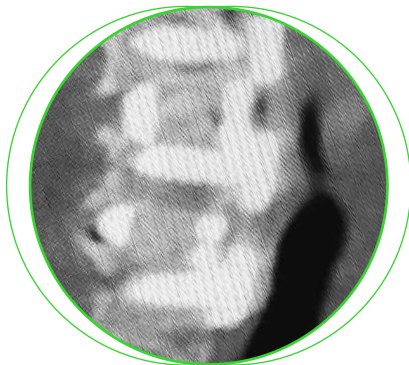
IdentiTi implants are 60% porous, reducing the density of material, enhancing intra-op and post-op imaging.



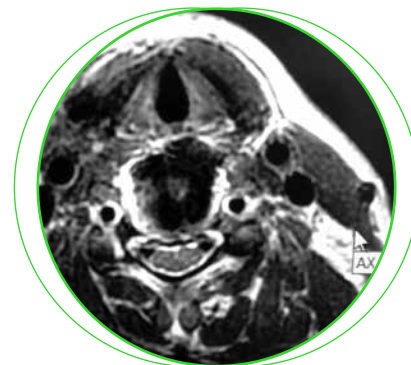
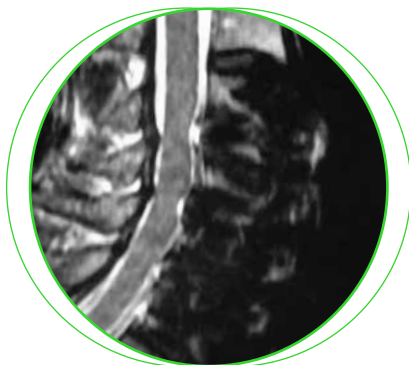
Fluoro



CT



MRI



IdentiTi™

Cervical Porous Ti Interbody System



For more information, visit: [ATECspine.com](https://www.ATECspine.com)

- or -

contact customer service at: [800.922.1356](tel:800.922.1356)

References:

Data on File; ATEC Spine:

1. LIT-84898A
2. LIT-84895A
3. LIT-84894A



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LIT-84813D | 2021/04/13

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