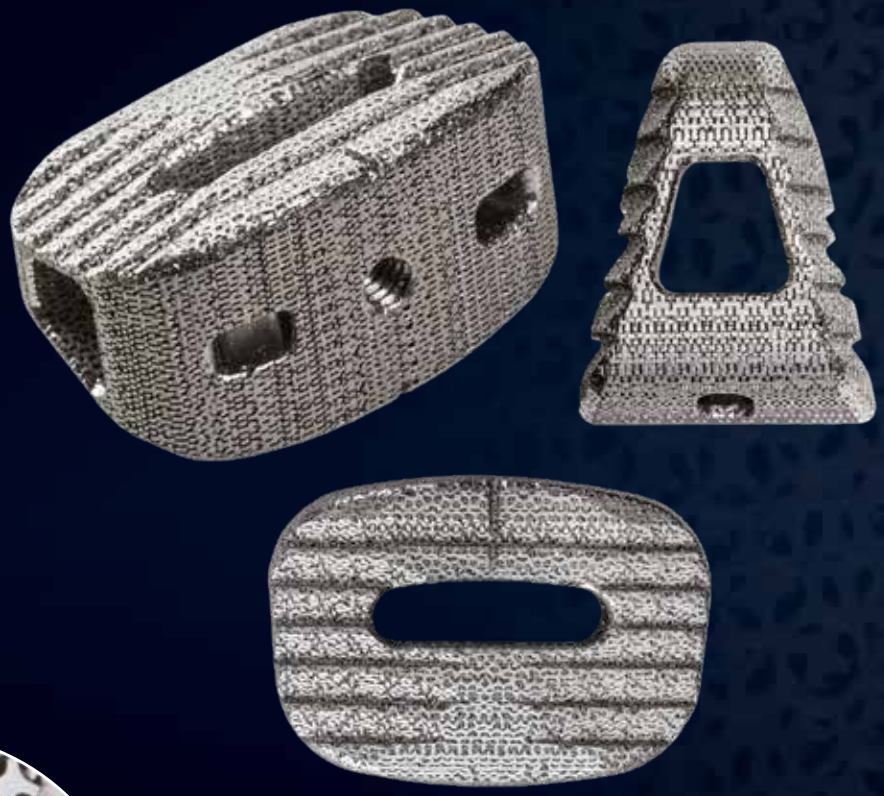
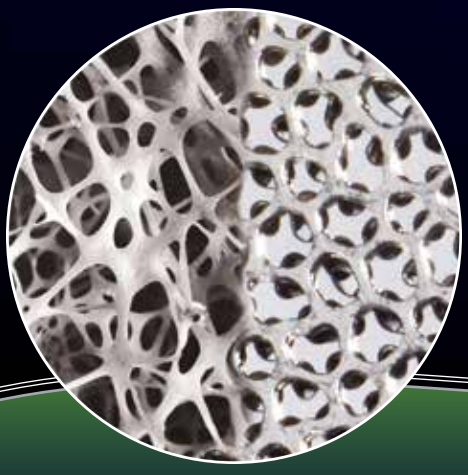
atec™
Spine Approach Technologies

IdentiTi™

Anterior Lumbar SW
Porous Ti Interbody System



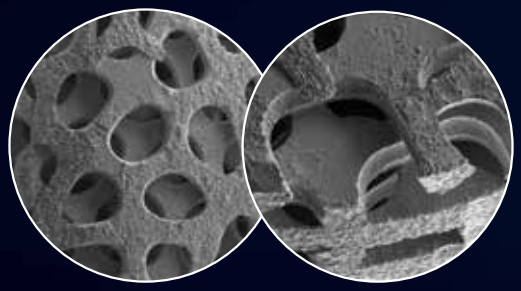


Redefining the way we approach fusion

IdentiTi™ Anterior Lumbar SW Porous Ti Interbody System:

Redefining the way we approach fusion

Introducing ATEC's **IdentiTi** Anterior Lumbar SW Porous Ti Interbody System leveraging a structure that mimics bone architecture and function. **IdentiTi-ALIF SW** 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.

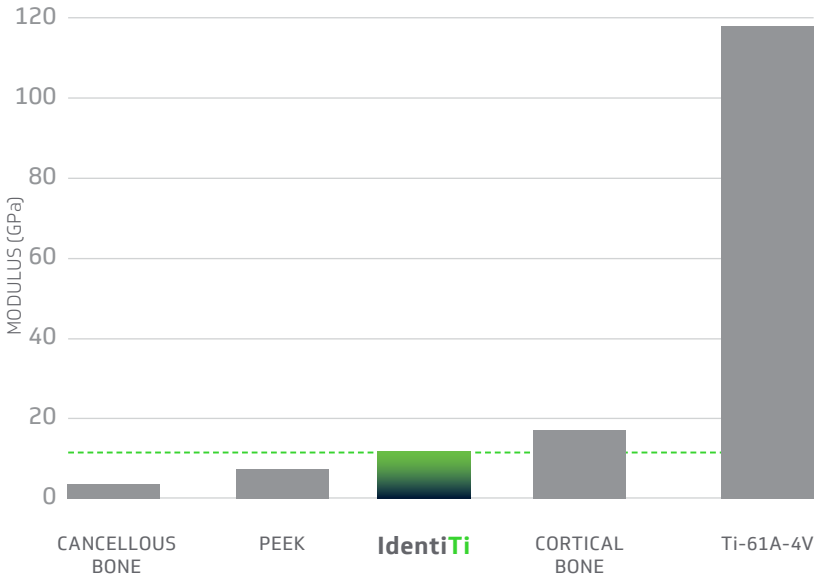
IdentiTi™ Implant Porosity

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

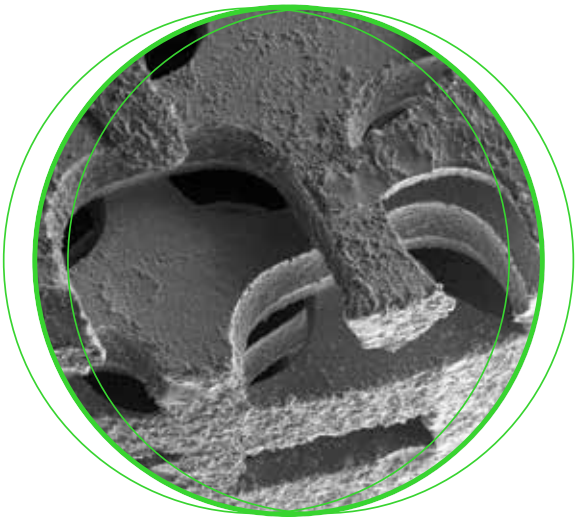
13x less
stiffness than Ti Alloy

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

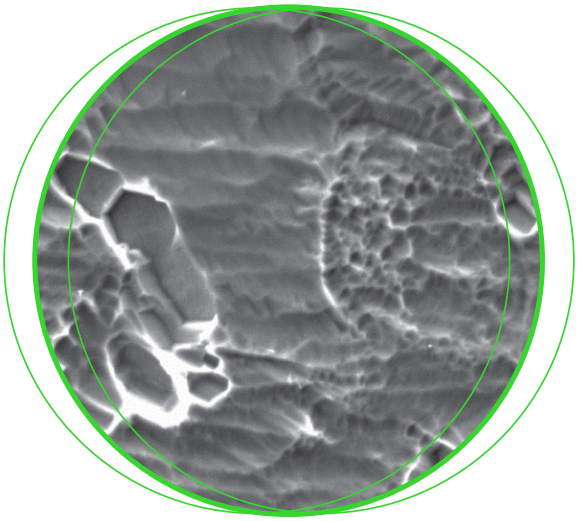


Initial Implant Stability: Surface Roughness

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]

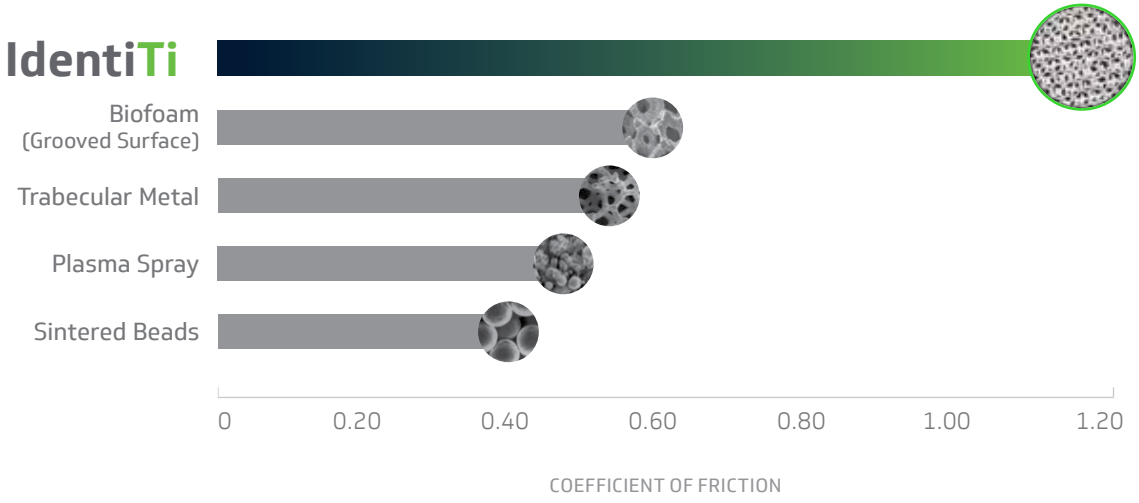


1,000X MAGNIFICATION



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

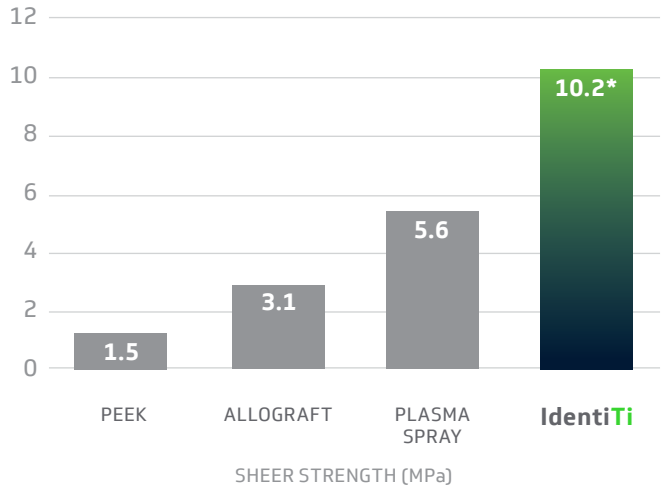
Bone in-growth was demonstrated in an animal model using qualitative assessment of trabecular and cortical bone growth into cylindrical pins of the porous titanium material.[3]

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]



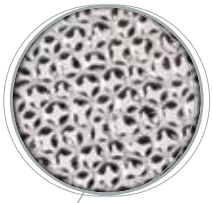
IdentiTi:

2x> Ti Plasma Spray

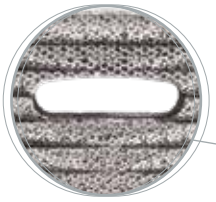
7x> PEEK

IdentiTi™-ALIF SW Porous Ti Interbody System

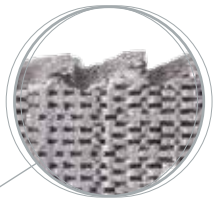
Consistent fully interconnected porosity throughout the implant, designed to mimic the structure and porosity of cancellous bone



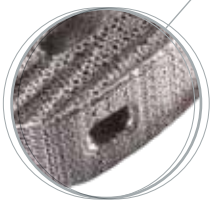
Tapered posterior edge for ease of insertion



Minimized graft window allows for the thoughtful, anatomically contoured curvature, maximizing endplate contact

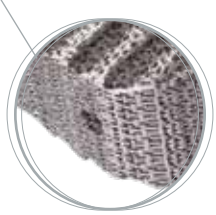


Directional, anti-migration teeth designed to prevent implant expulsion also provide additional control, paired with the material surface roughness, upon insertion and final placement



Strategically designed, unique inserter interface allows for an extremely robust yet seamless and low-profile engagement

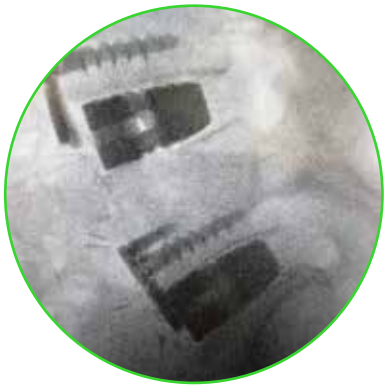
Window provided for lateral alignment visibility during placement

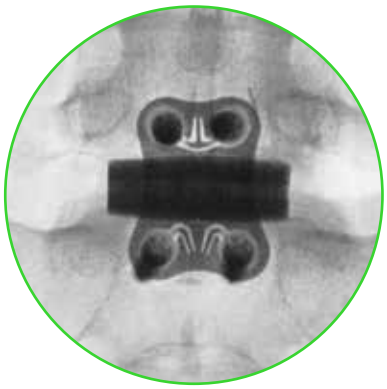


IdentiTi ALIF-SW Porous Ti Interbody Imaging

ATEC's **IdentiTi** Porous Ti implants are 60% porous, reducing the density of material, enhancing intra-op and post-op imaging.

Fluoro



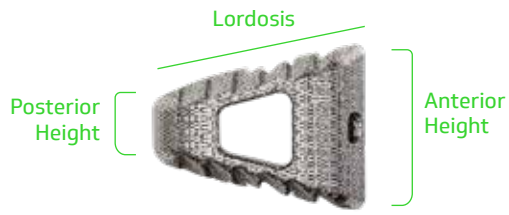


Plain Radiography

CT

IdentiTi ALIF-SW Porous Ti Interbody Spacer Offering

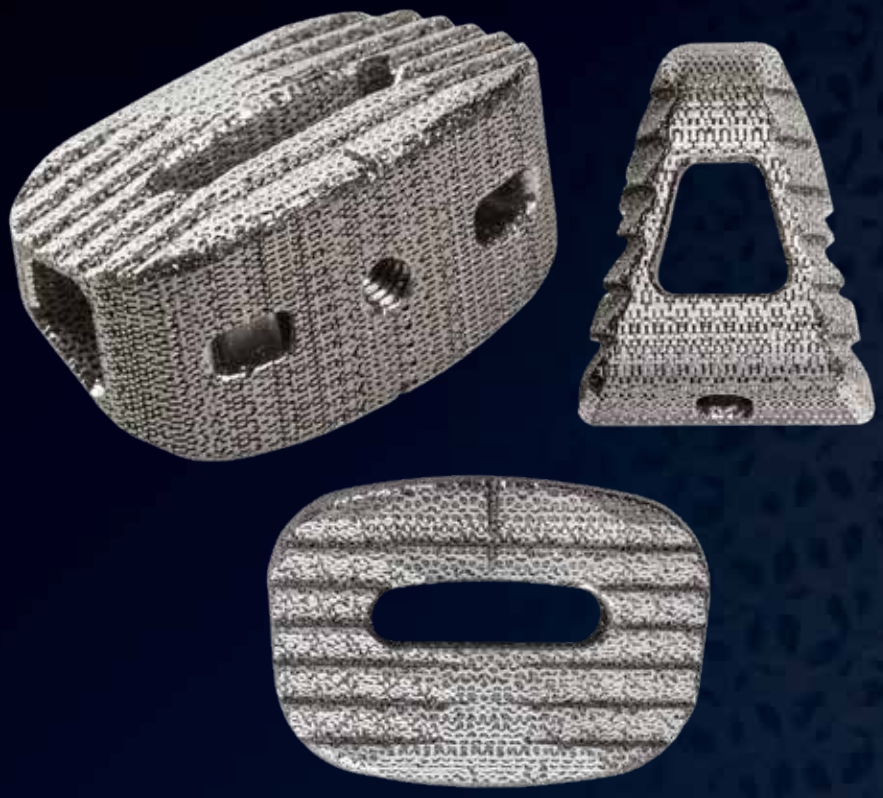
Footprint (w x d)	34 mm x 24 mm	38 mm x 28 mm
		
Lordosis	10°, 15°, 20°, 30°	10°, 15°, 20°, 30°



LATERAL VIEW

IdentiTi™

Anterior Lumbar SW Porous Ti Interbody System



For more information, visit: ATECspine.com

- or -

contact customer service at: 800.922.1356

References:

Data on File; ATEC Spine:

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

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