UnifiMI

An OsteoCentric Technology

Inspired by Aerospace; Transforming Orthopedics

OsteoCentric Technologies is leading an industry wide, global revolution by developing new, MIS techniques, instruments, and implants that go beyond soft tissues and focuses on preparing and preserving bone.

History

1950 — Standard Compression Based Buttress Thread Introduced to Orthopedics

2015 — UnifiMI Fastener Released

First Innovation in the Implant to Bone Interface in 65 years

2023 — 60k+ UnifiMI Fasteners Implanted From Trauma to Spine

Trusted & Adopted In:

- Spine
- SI Joint
- Trauma
- Sports Medicine
- Extremities
- Veterinary

80+
Level 1 Trauma Centers

8+
Years of Proven Performance

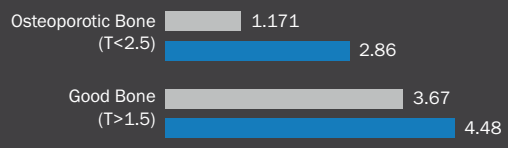
Modern UnifiMI Threads

Conventional Buttress Threads

Bone Preserving

~67% Increase in Torsional Resistance (Stripping)

- Journal of Orthopedic Trauma



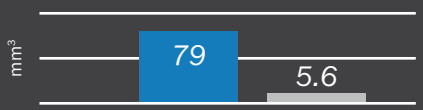
Circumferential Interlocking

58% **Increase** in Implant Off-Axis Stability

Thread Mechanically Integrates and Preserves Bone Architecture and Biology

Immediate Load Sharing

14.1x Greater FEA bone engagement in the distal 50% of implant

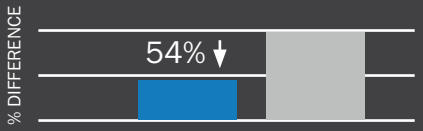


Volume of Bone-Sharing Load

Sustainable Stability

54% Less displacement after dynamic toggling

- Mercer University



Displacement After Dynamic Toggling

What is **Mechanical Integration?**

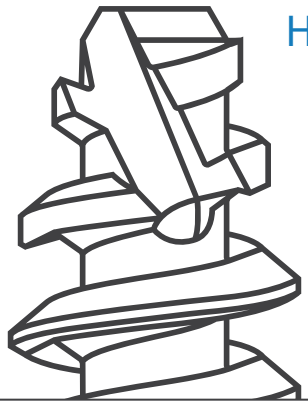
Mechanical Integration (MI) is a minimally invasive, bone preserving method that instantly secures and stabilizes implants to normal or compromised bone by creating a structural and functional connection, utilizing a unique thread geometry that circumferentially interlocks with the bone.

Core Principles

- Preserves Architecture & Biology of Bone
- Instantly Interlocks Implant to Bone Circumferentially
- Immediate & Long-Term Load Sharing Between Implant & Bone

Performance Capabilities of the Bone to Implant Interface

	Traditional Compression/ Wedge Interface	Modern Mechanical Integration Interface
Preserves Architecture & Biology of the Bone	✗	✓
Instantly Interlocks the Implant to Bone Circumferentially	✗	✓
Immediate Load Sharing Similar to Osseointegration	✗	✓
Preserves Primary Implant Stability	✗	✓
Tension Side of Implant Capable of Resisting Loads	✗	✓
Easily Removable	✓	✓
Affordable	✓	✓



How does Unifi*MI* **Prepare and Preserve Bone?**

Unifi*MI* implants incorporate proprietary self-tapping technology to advance bone chips forward to create a clean bone implant interface maintaining the health of the patient's bone.

Learn more about UnifiMI and Mechanical Integration by watching this video

OsteoCentric TECHNOLOGIES

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75 West 300 N, Suite 150
Logan UT, 84321
Phone: 1-800-969-0639
info@osteocentric.com
osteocentric.com

OT-GEN-LBL-0001 Rev 01