



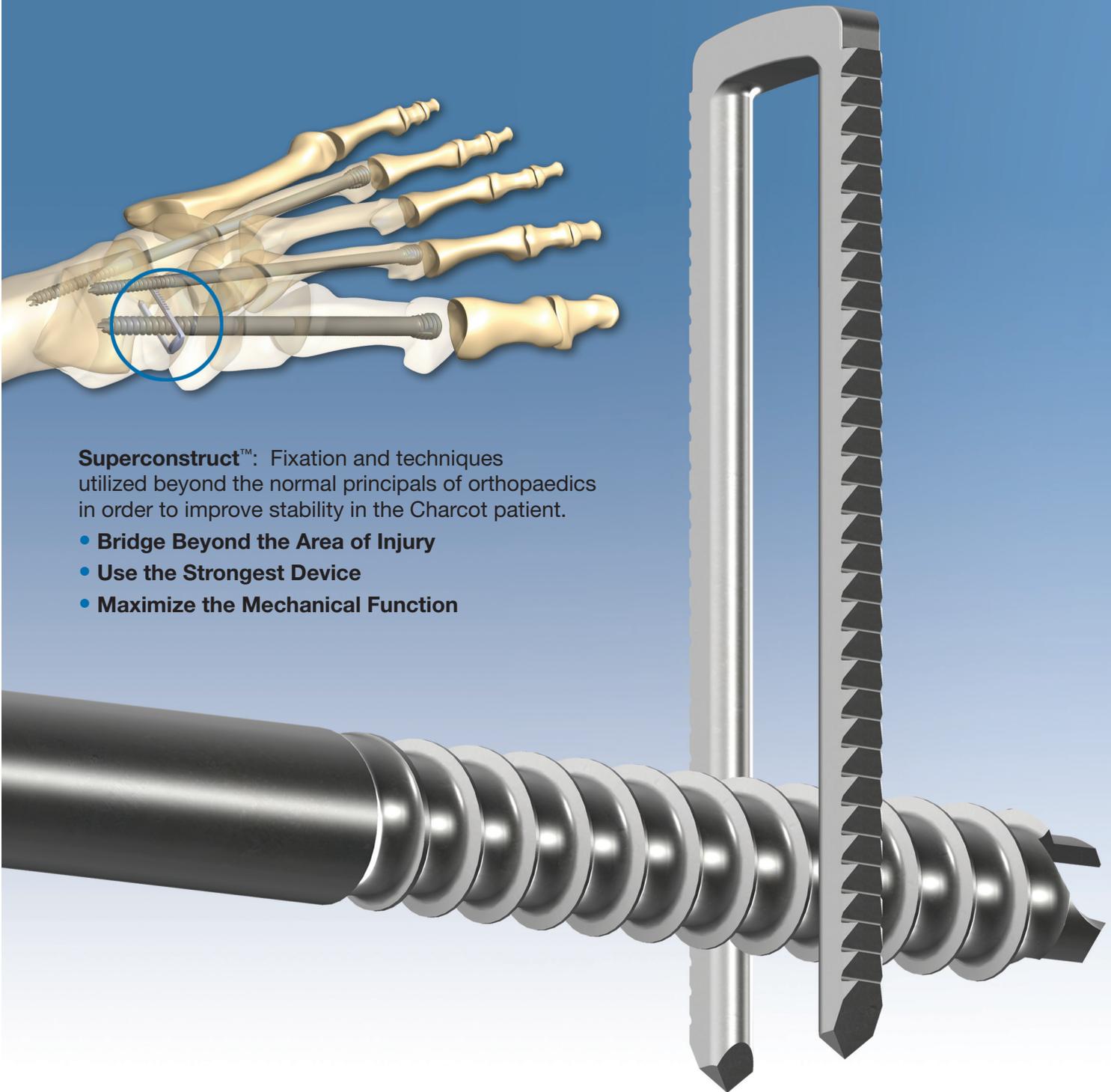
A Superconstruct™* for the Treatment of Charcot Deformity

Bridging Advances in Technology and Technique



A Superconstruct™* for the Treatment of Charcot Deformity

Bridging Advances in Technology and Technique



Superconstruct™: Fixation and techniques utilized beyond the normal principals of orthopaedics in order to improve stability in the Charcot patient.

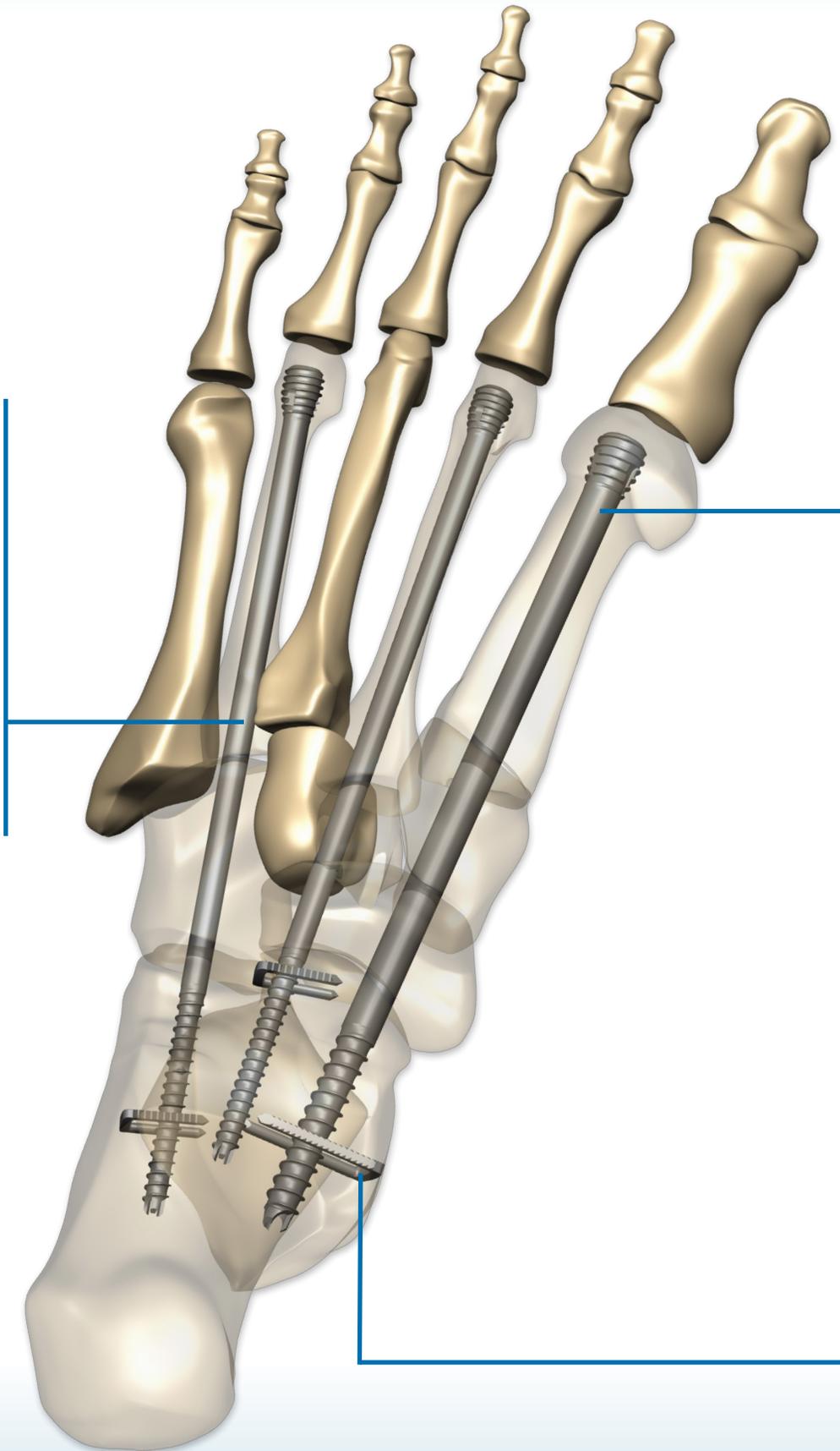
- **Bridge Beyond the Area of Injury**
- **Use the Strongest Device**
- **Maximize the Mechanical Function**

The AXIS Superconstruct™ ... Evolution of Charcot Fixation

Bridge beyond the Area of Injury

"...fusion is extended beyond the zone of injury to include joints that are not affected to improve fixation...the fixation is dramatically improved"¹

- **AXIS Beams from 70-160mm**



¹ V. James Sammarco MD, Superconstructs in the Treatment of Charcot Foot Deformity: Plantar Plating, Locked Plating and Axial Screw Fixation, *Foot Ankle Clin N AM* 12 (2009) 393-407, 399.

The AXIS Superconstruct™ ... Evolution of Charcot Fixation

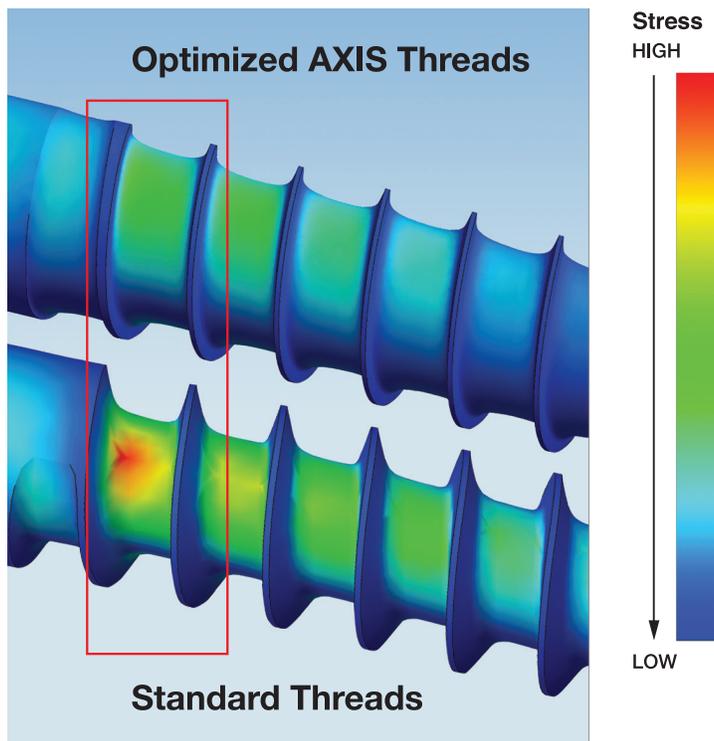
Use the Strongest Device

*"...the strongest device is used that can be tolerated by the soft tissue"*¹

- Large Shank Beams with Sizes up to 7.5mm
- Thread Design Optimized to Handle Higher Bending Forces
- Type II Anodized Titanium Alloy for Enhanced Fatigue Strength

AXIS Strength Advantage

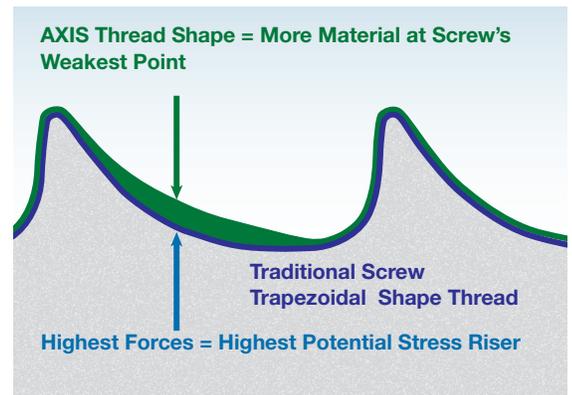
39% Reduction in Stress Risers



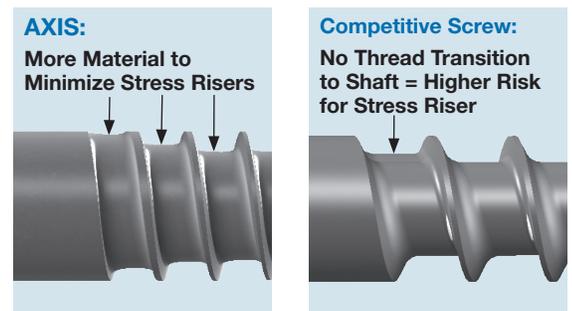
Data on file

More Material Where Needed Most

AXIS: Novel Parabolic Thread Shape



Optimized Thread Transition of Minor Diameter To Shaft

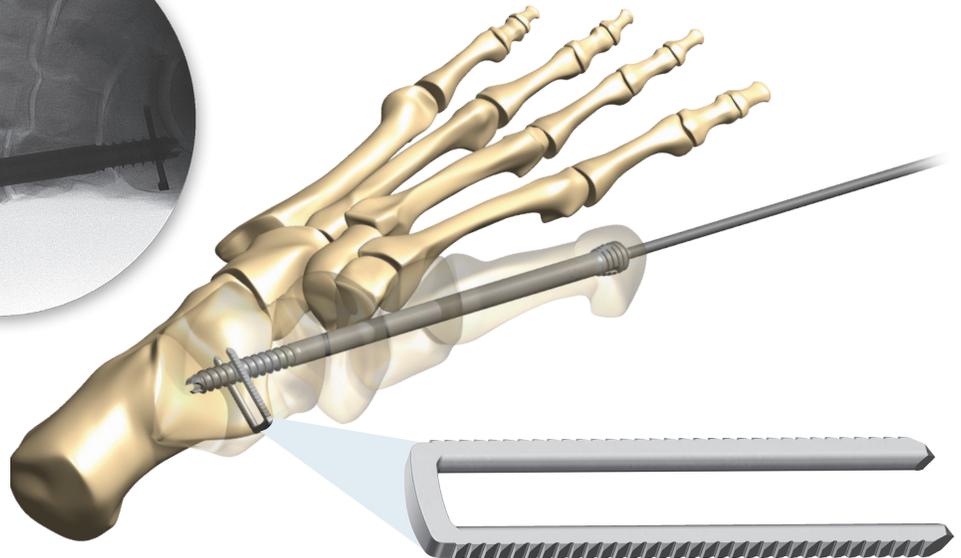
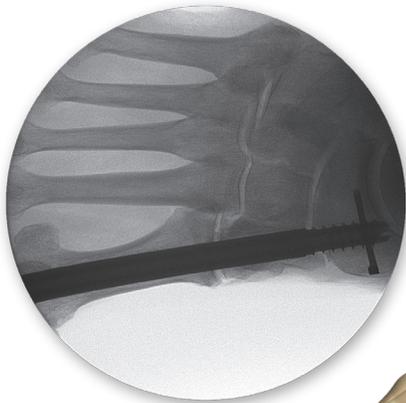


The AXIS Superconstruct™ ... Evolution of Charcot Fixation

Maximize the Mechanical Function

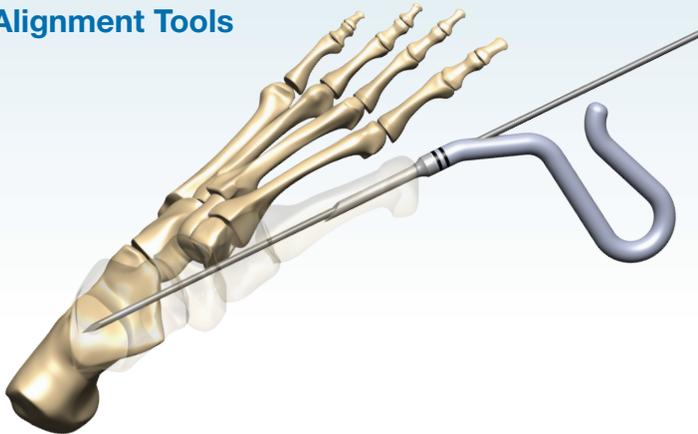
*"...devices are applied in a position that maximizes mechanical function"*¹

- **Intramedullary Beaming Minimizes Stress Risers in Cortical Bone as Seen from Placement of Plates and Oblique Screws**
- **X-Clip Acts as an "Intraosseous Anchor" to create a Superconstruct™**
 - Improves Thread Purchase
 - Improves Construct Stability Through Maintenance of Compression
 - Increases Surface Area to Dissipate Shear Forces

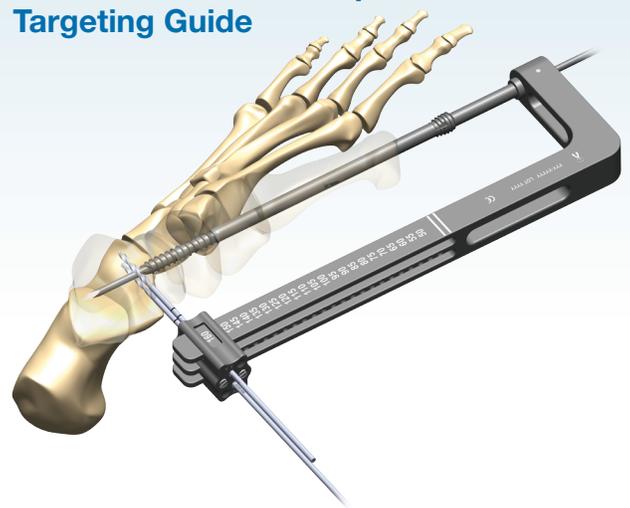


Specialized Instrumentation Facilitates Alignment and Hardware Insertion

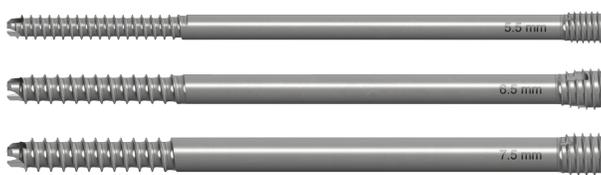
Robust Guidewires and Alignment Tools



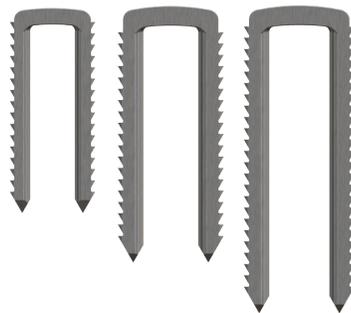
Precision Guided X-Clip Targeting Guide



AXIS™: Fully Cannulated Fusion Beams



Beam Size	Lengths
5.5mm	70-150mm
6.5mm	70-160mm
7.5mm	70-160mm



X-Clip Size	Lengths
5.5mm	15 & 20mm
6.5mm	25 & 30mm
7.5mm	25 & 30mm

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Indications For Use: The AXIS Charcot Fixation System in diameters of 5.5, 6.5 and 7.5mm is indicated for reconstruction procedures, non-unions and fusions of bones in the foot and ankle including the metatarsals, cuneiforms, cuboid, navicular, calcaneus and talus; specific examples include: medial and lateral column fusion resulting from neuropathic osteoarthopathy (Charcot).

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