

Arthrex Beaming System

Structural Support With Every Turn

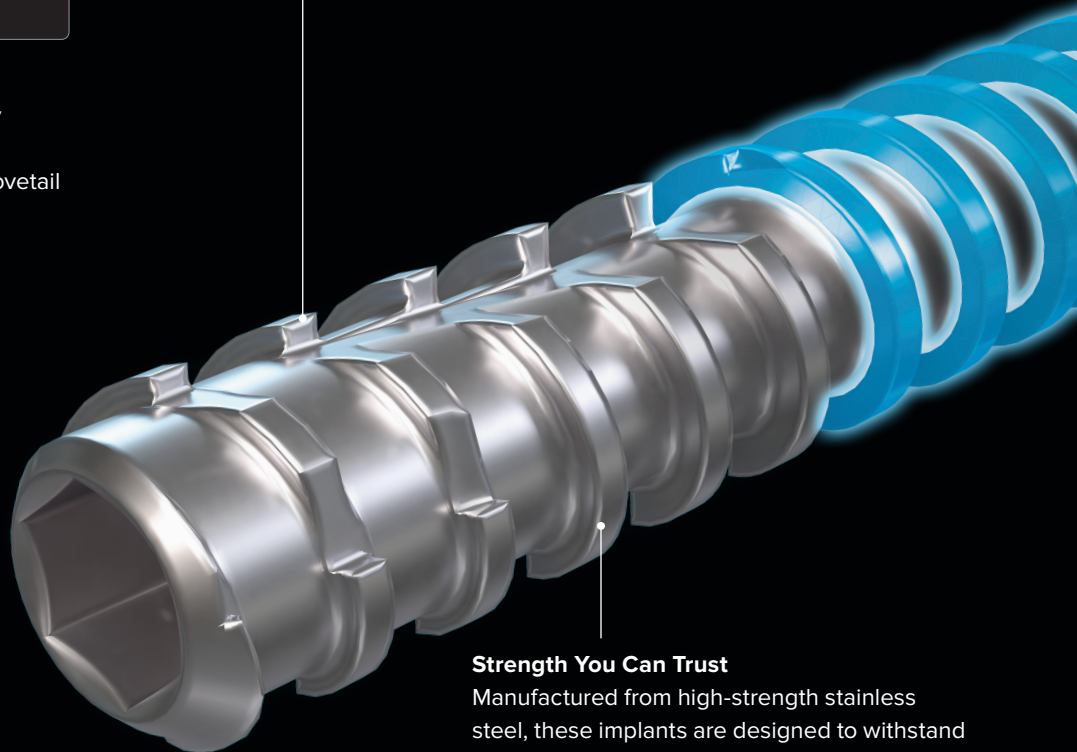


The **Arthrex Beam** is the only fully threaded, mechanically locking headless compression beam for **complex foot and ankle reconstruction**.



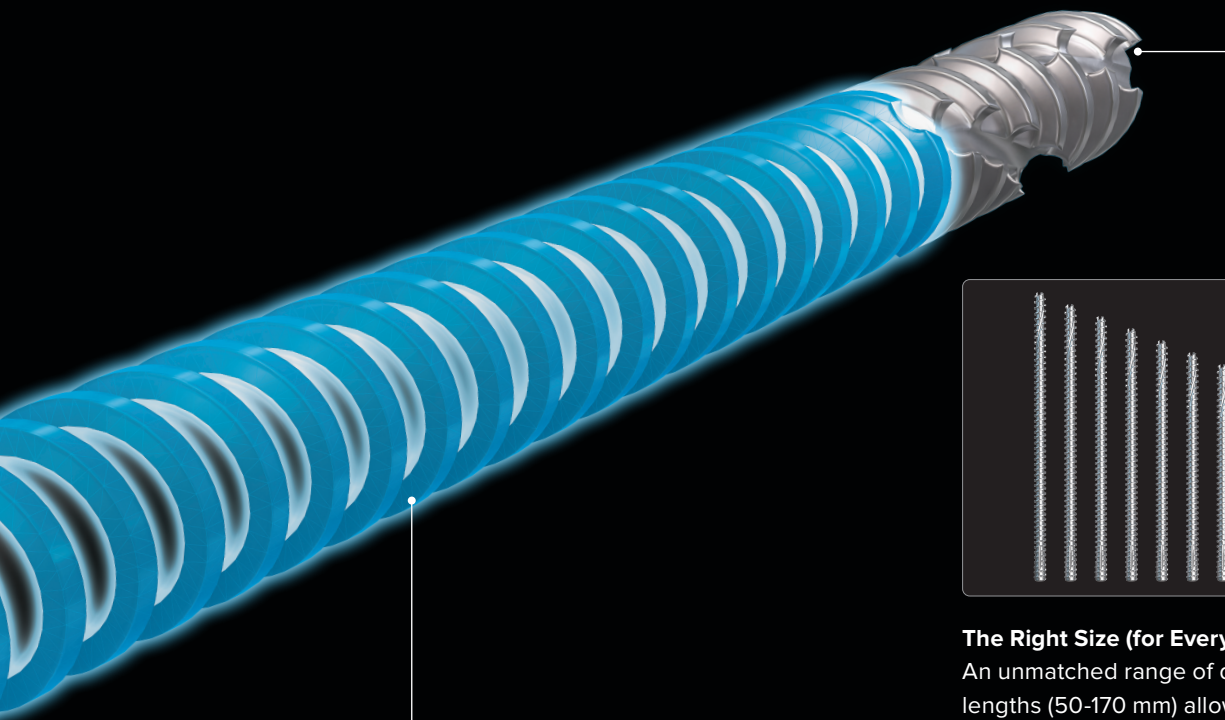
Mechanically Locked Stability

Unlike conventional implants **(a)** that rely primarily on compression and friction, KeyLock™ technology **(b)** uses a novel dovetail thread form to mechanically engage and lock into bone.



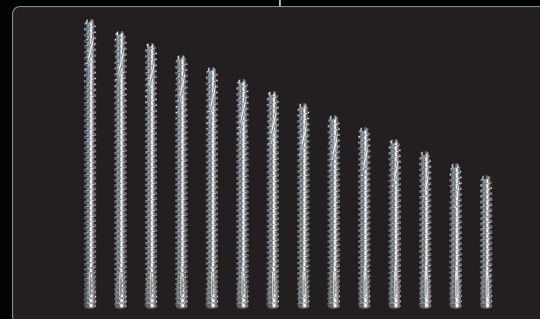
Strength You Can Trust

Manufactured from high-strength stainless steel, these implants are designed to withstand the demanding loads for complex foot and ankle reconstruction patients.^{1,2} Unlike titanium implants, which can flex under load, stainless steel provides greater stiffness and resistance to deformation, helping maintain correction and stability throughout the healing process.³



Compression You Can Feel

The continuous variable-pitch design generates active compression throughout insertion—not just at final implant seating as with partially threaded or headed beams. Each rotation draws bone surfaces closer together, increasing bone-to-bone contact to support successful fusion.

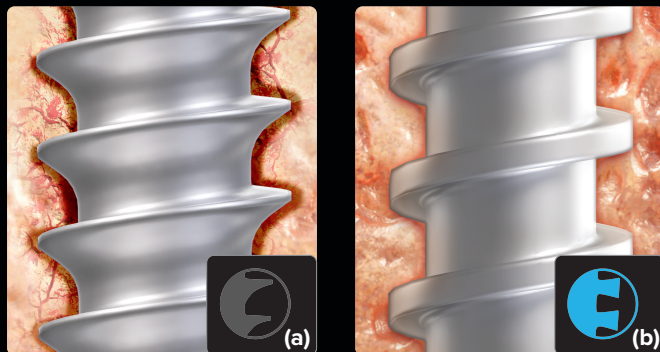


The Right Size (for Every Patient)

An unmatched range of diameters (5-8 mm) and lengths (50-170 mm) allows surgeons to tailor fixation to patient anatomy while achieving optimal load sharing and spanning extensive zones of injury. Fully cannulated implants and large-diameter K-wires across the portfolio—including 5.0 beams—enhance insertion accuracy and ease of use, while the robust 8.0 mm beam provides a seamless revision solution without changing systems.

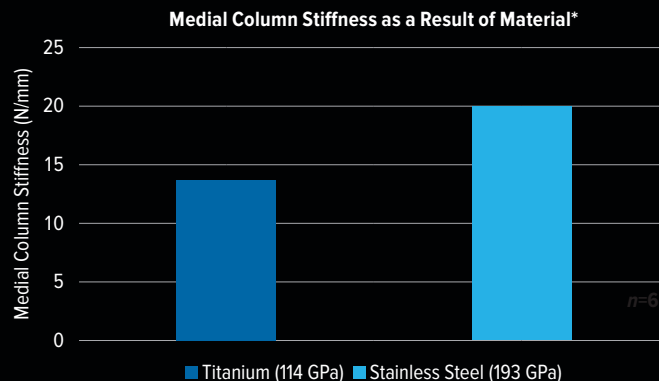
Every Reconstruction. Completely Covered.

KeyLock™ Technology



The dovetail-shaped undercut thread **(b)** creates a secure mechanical bone interlock, while conventional screws **(a)** lack this engagement and depend on friction alone—making them more vulnerable to toggle and loss of fixation.

Designed for Strength

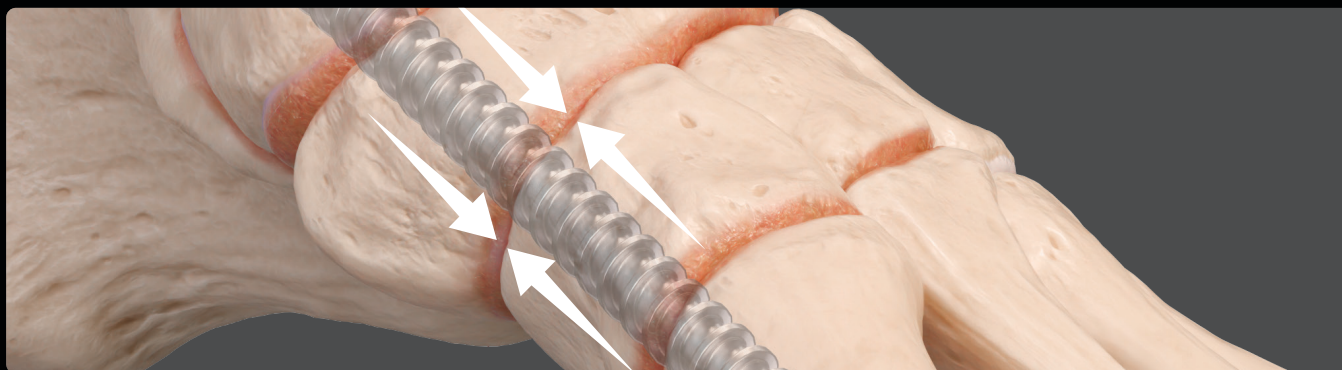


*Adapted from Simonik MM, et al.³

Stainless steel beams provide high strength and rigidity, helping maintain deformity correction and structural support in demanding foot reconstruction procedures. Their increased stiffness compared to titanium alloy may help resist bending and deflection, allowing better opportunity for bone healing.³

Engineered Compression

Continuous variable-pitch technology is intended to create compression across multiple segments, a construct characteristic that has been associated with reduced micromotion and increased stability.

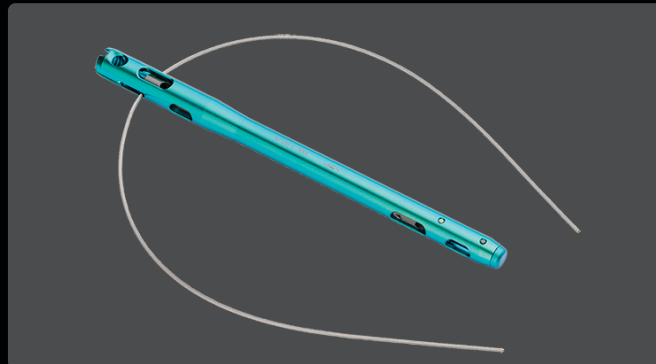


Arthrex SixFix® Ring Fixation System



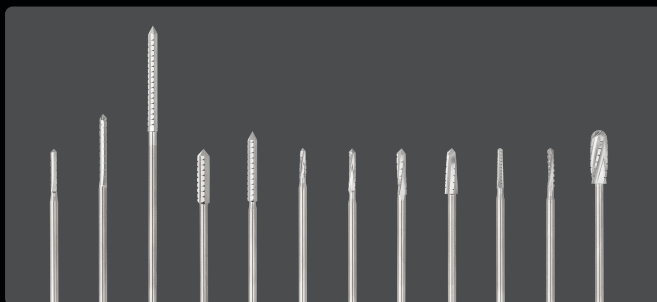
External fixation and the Arthrex Beaming System work synergistically to address the unique challenges of foot and ankle reconstruction. By sharing load and protecting internal fixation, the frame enhances construct stability while maintaining correction throughout the healing process.

DualCompression Hindfoot Nail



Restoring a stable, plantigrade foot that is capable of shoe wear and/or bracing is the primary goal in neuropathic reconstruction. When adequate fixation and joint stability cannot be achieved through the midfoot beaming, hindfoot fusion with a floating midfoot may be a viable alternative.

MIS Burrs



In foot and ankle reconstruction, protecting the soft-tissue envelope is just as important as achieving stable fixation. Minimally invasive joint preparation with Arthrex burrs and low-speed, high-torque power can address deformity and joint preparation through smaller incisions and less soft-tissue disruption.

Tenodesis Screws



Successful foot reconstruction extends beyond osseous correction and fixation. Tendon releases and transfers can help address deforming forces and rebalance the foot to support a durable, plantigrade foot. Arthrex offers a family of tendon to bone fixation options to supplement your repair.

Better with **BIO**[™]

ArthroCell[™] Plus Viable Bone Matrix

ArthroCell viable bone allograft contains cellular, scaffold, and gel components derived from human bone. The cellular component consists of mesenchymal stem, osteoprogenitor, and pluripotent cells.



Calcium Sulfate BioBeads

For bony infections, Arthrex Calcium Sulfate BioBeads can be used to fill in voids and can be delivered in a bead or paste configuration. Bead sizes available include 3 mm, 4.5 mm, and 6 mm.



AlloSync[™] Pure Demineralized Bone Matrix

AlloSync bone grafts contain osteoconductive and osteoinductive properties, providing the optimal signaling and scaffold for bone remodeling.



Angel[®] System

The Angel system is a fully automated system that uses 3-sensor technology and one-button automation to prepare customized platelet-rich plasma (PRP) formulations.



References

1. Wukich DK, Liu GT, Raspovic K, Vicenzi F. Biomechanical performance of Charcot-specific implants. *J Foot Ankle Surg.* 2021;60(3):440-447. doi:10.1053/j.jfas.2020.08.018
2. Arthrex, Inc. Data on file (APT-07663). Naples, FL; 2026.
3. Simonik MM, Pitarresi J, Willing R. Analysis of intramedullary beam designs using customized finite element models for medial column arthrodesis of the foot. *J Foot Ankle Surg.* 2022;61(3):508-519. doi:10.1053/j.jfas.2021.10.002

This description of technique is provided as an educational tool and clinical aid to assist properly licensed medical professionals in the usage of specific Arthrex products. As part of this professional usage, the medical professional must use their professional judgment in making any final determinations in product usage and technique. In doing so, the medical professional should rely on their own training and experience, and should conduct a thorough review of pertinent medical literature and the product's directions for use. Postoperative management is patient-specific and dependent on the treating professional's assessment. Individual results will vary and not all patients will experience the same postoperative activity level or outcomes.



Arthrex manufacturer, authorized
representative, and importer
information (Arthrex eIFUs)



US patent
information