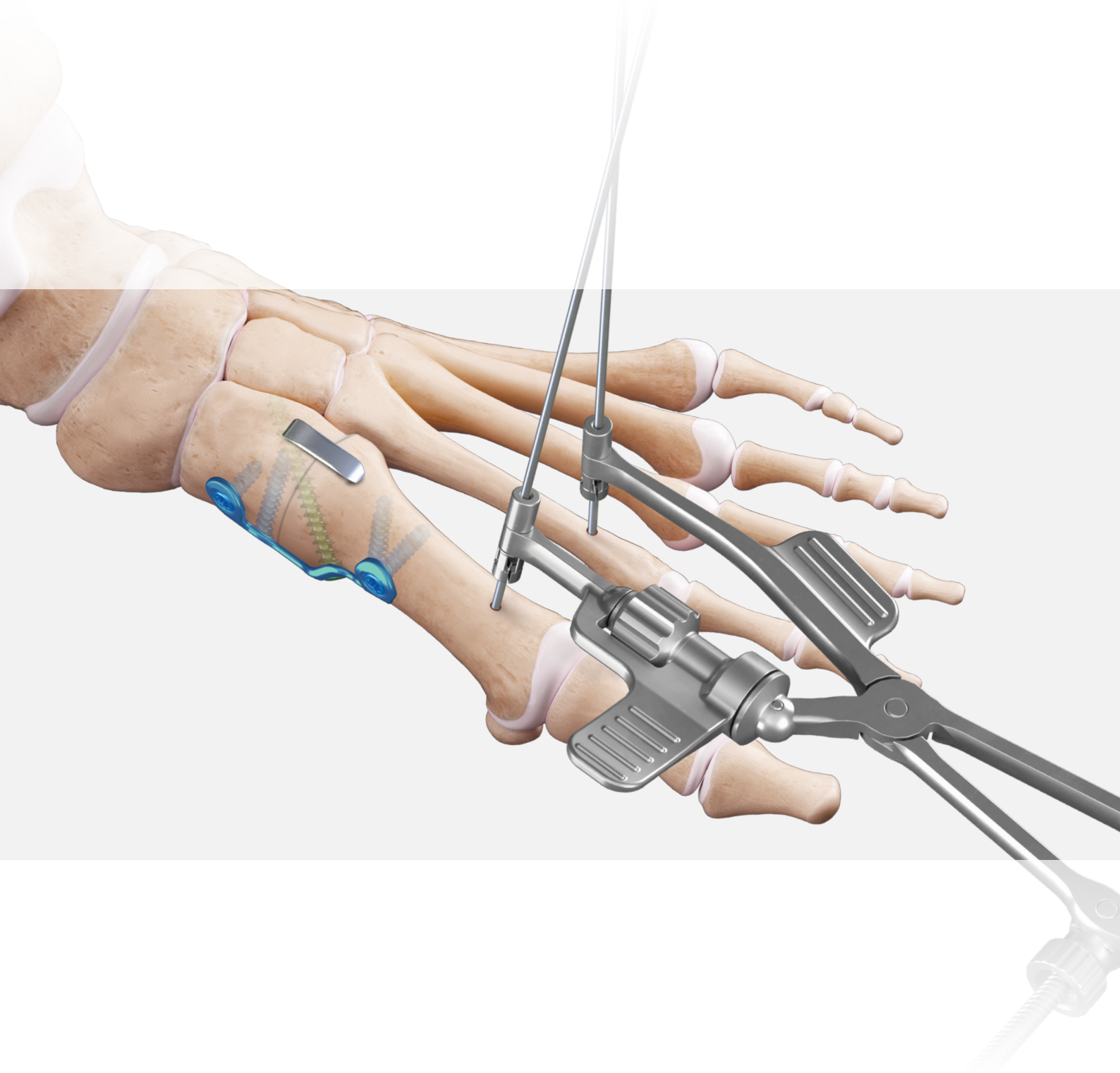
Lapidus Reduction Clamp

Surgical Technique



Arthrex®

Introduction

The Lapidus reduction clamp is designed to assist in achieving and holding reduction for Lapidus procedures by addressing both frontal plane rotation and the intermetatarsal angle (IMA). The simplicity of this singular instrument provides surgeons the flexibility to use their desired approach, preparation, and fixation methods while maintaining three-dimensional correction and proper anatomical positioning of the metatarsal.

Product Highlight

1. **Rotating Arm**
   Allows for dialed-in rotational correction. Locking feature maintains correction.

2. **Spin-down Clamp**
   Closes the IMA using 1.6 mm guidewires. Threaded spin-down allows for dialed in reduction that is held through the length of the procedure.

3. **Guidewire Sleeves**
   Allow for a percutaneous solution for reduction. An internal gripping feature maintains positioning of the clamp.

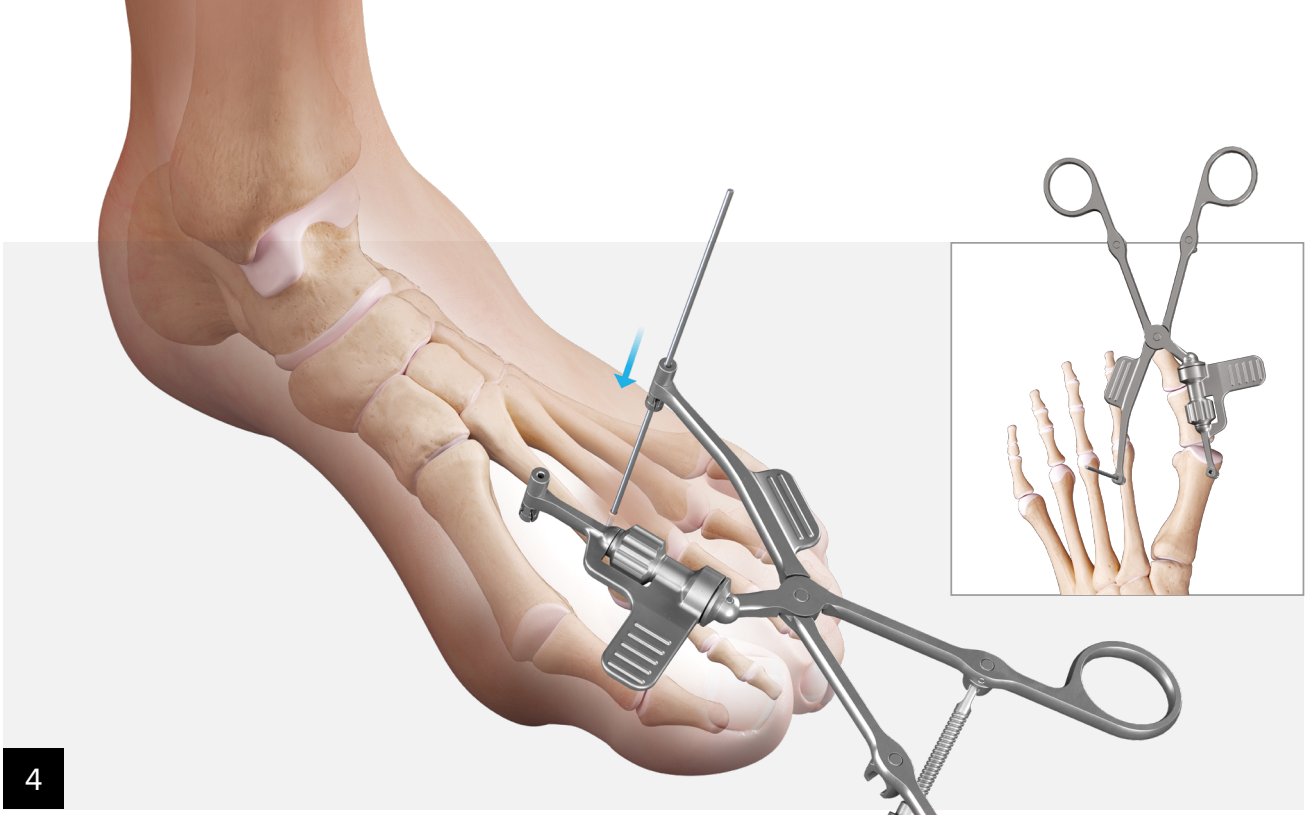
Technique Overview

Using fluoroscopic guidance, make an incision over the 1st tarsometatarsal (TMT) joint. The incision is shown dorsomedial to the joint. However, this approach can vary in location and size based on surgeon preference and preferred hardware.

Using an osteotome or freer, incise and release the joint capsule so the 1st metatarsal can rotate freely.

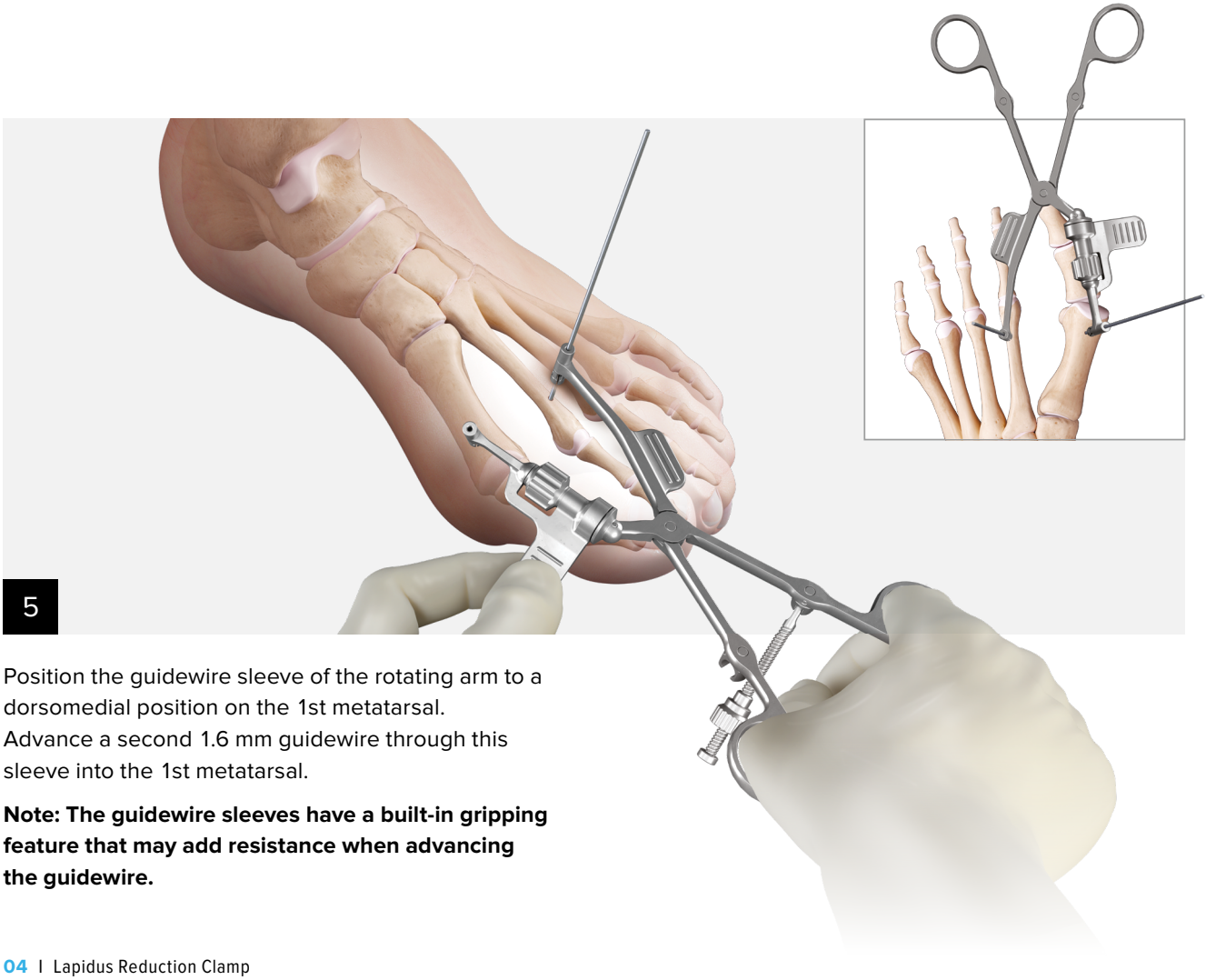
Optional: Joint preparation can be completed at this time. In this technique guide, preparation is completed after reduction is achieved.

Insert a 1.6 mm guidewire into the neck of the 2nd metatarsal. Palpate the foot to avoid the extensor tendon upon insertion.



4

Slide the stationary arm of the reduction clamp over the placed guidewire. The body of the clamp should face distally, with the rotating arm positioned over the 1st metatarsal.



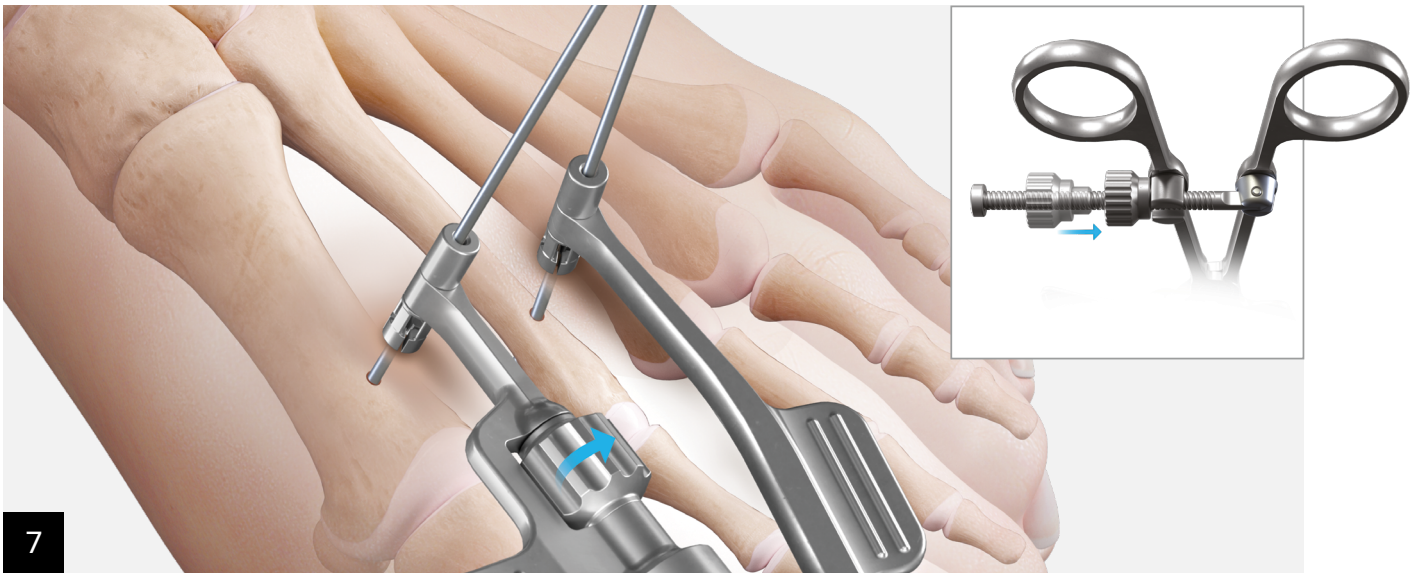
5

Position the guidewire sleeve of the rotating arm to a dorsomedial position on the 1st metatarsal. Advance a second 1.6 mm guidewire through this sleeve into the 1st metatarsal.

Note: The guidewire sleeves have a built-in gripping feature that may add resistance when advancing the guidewire.

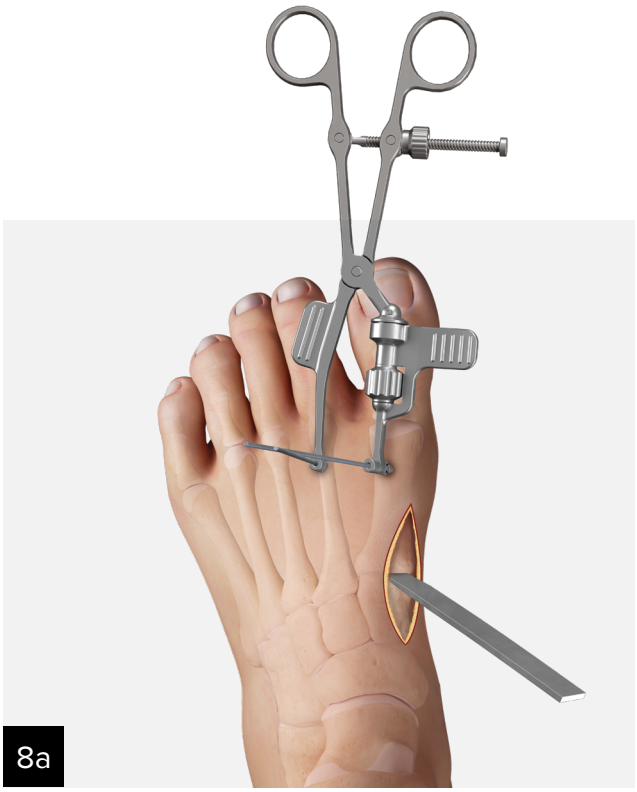
6

Ensure that the rotating arm is in the unlocked position and begin to close the clamp. Confirm proper reduction with fluoroscopic assistance. Adjustments can be made, independently and as needed, in the coronal and transverse planes.



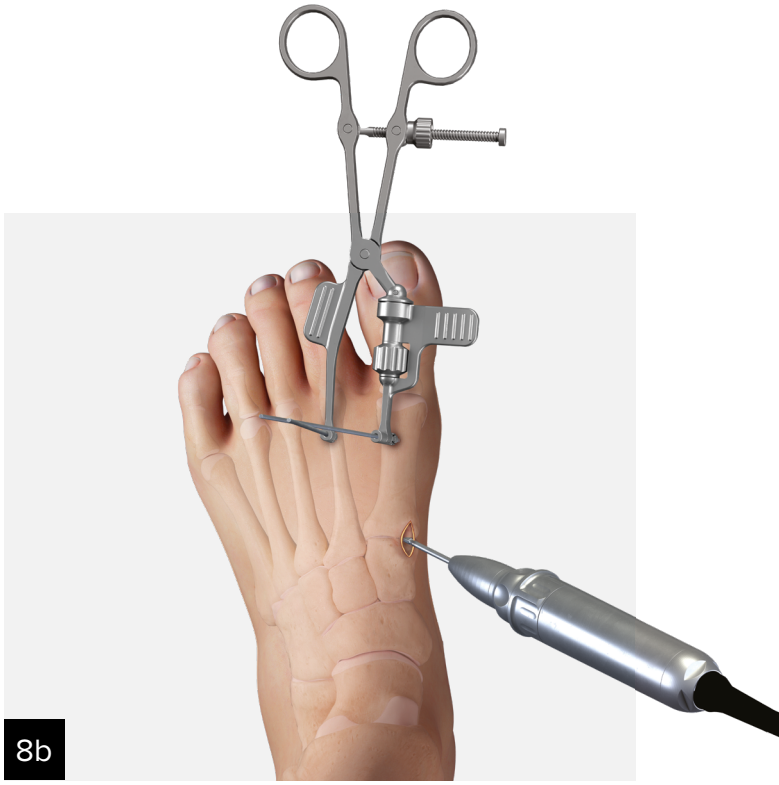
7

Once final reduction is achieved, lock down both the rotating arm and spin-down mechanism to maintain positioning.



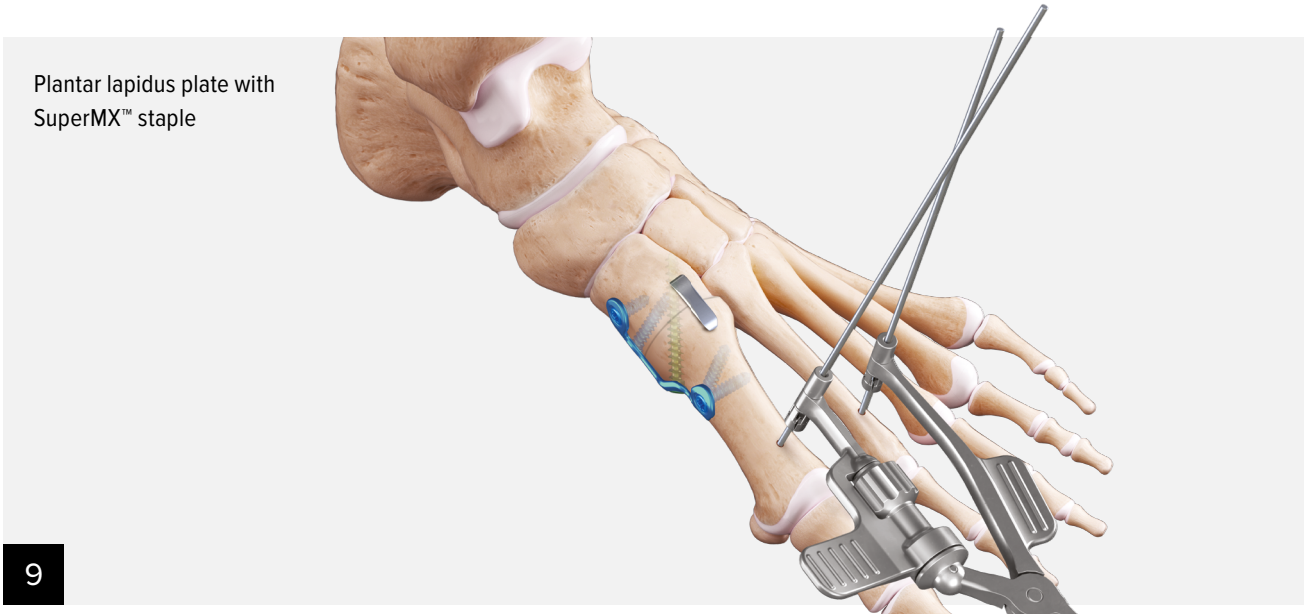
8a

Holding reduction, use instrumentation of choice to complete joint preparation.



8b

For a more minimally invasive approach, the MIS burr and power system can be used.

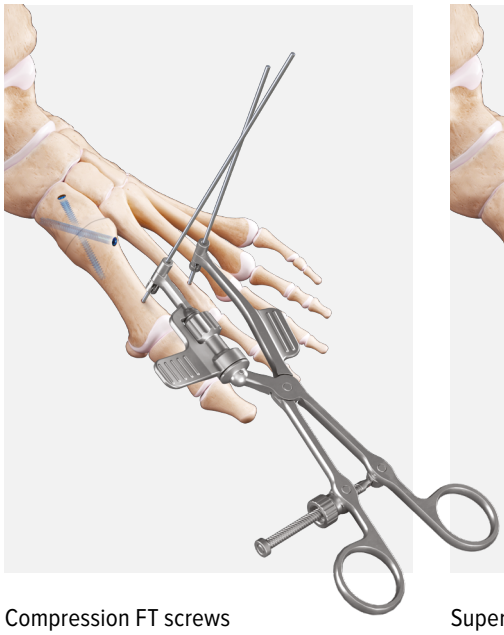


Plantar lapidus plate with SuperMX™ staple

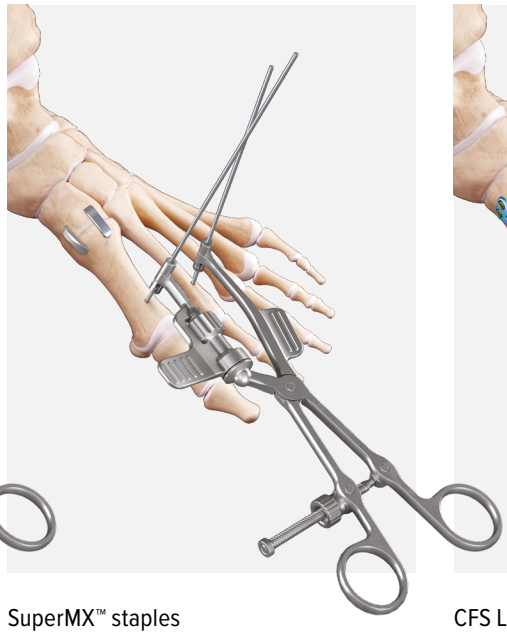
9

Once proper reduction and joint preparation are achieved, place desired fixation. See next page for possible construct options.

Final Fixation Options

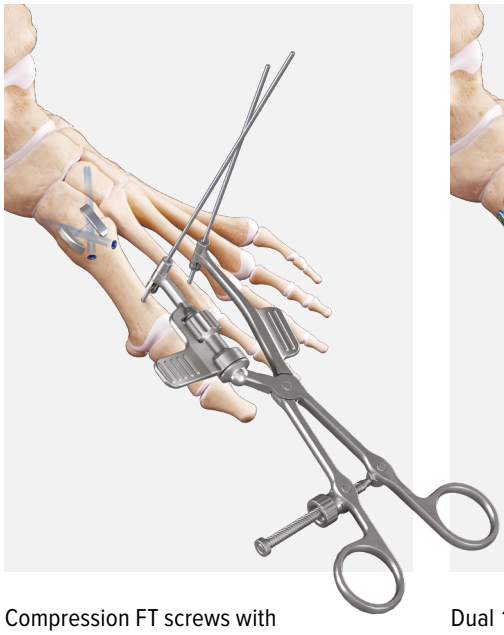


Compression FT screws



SuperMX™ staples

CFS Lapidus plate with SuperMX staple



Compression FT screws with SuperMX staples

Dual 1.1 Knotless Mini TightRope® implant with CFS plate

SuperMX staples with Snap-Off Compression FT pins

Ordering Information

Product description	Item number
Reduction Clamp	AR-**8841RC**
1.6 mm Guidewire	AR-**8941K**

Products advertised in this brochure / surgical technique guide may not be available in all countries. For information on availability, please contact Arthrex Customer Service or your local Arthrex representative.

Arthrex®

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 and/or outcomes.

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

US patent information

arthrex.com