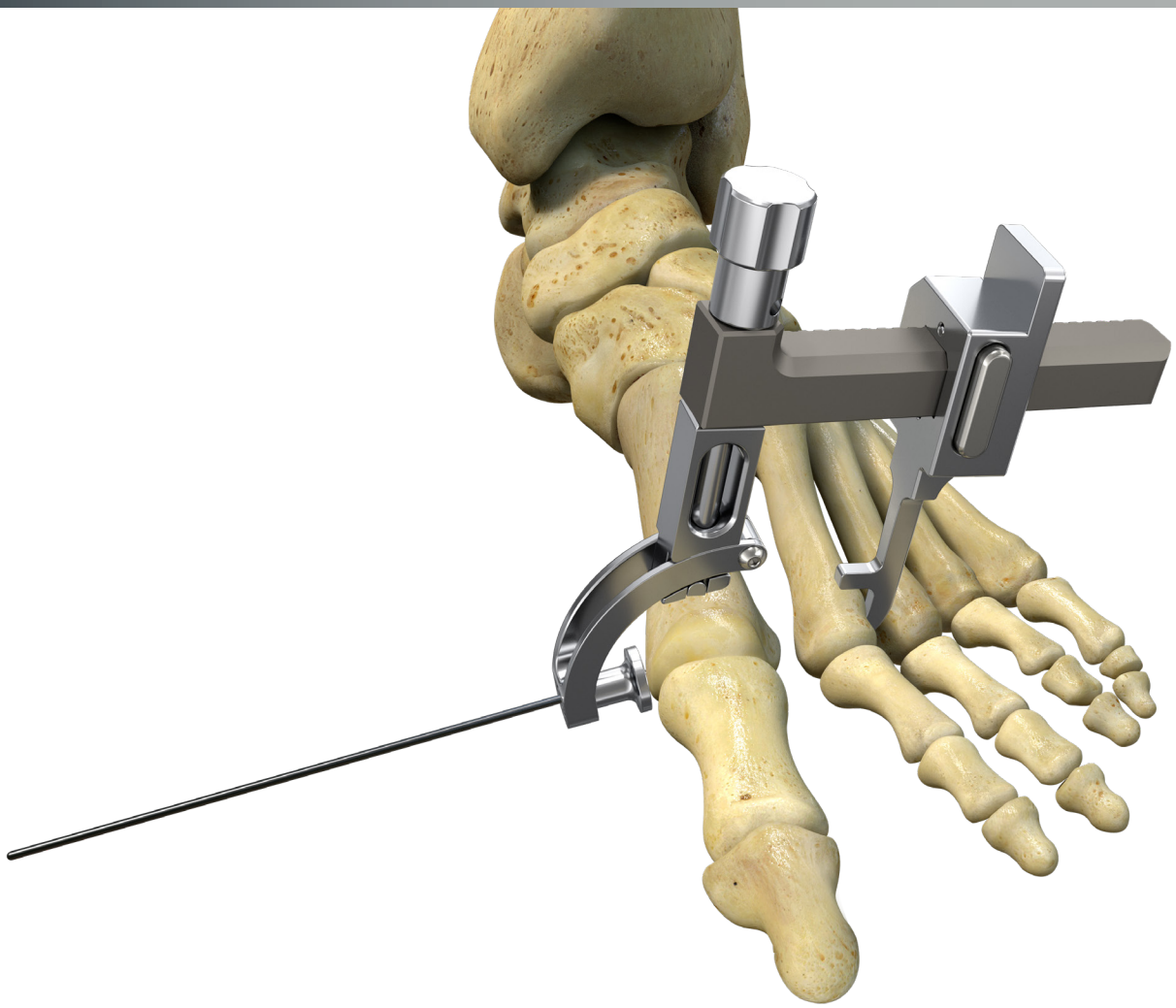
stryker

Ortholoc® 2 3Di

LapiFuse Triplanar Correction System

Pocket Guide



Skin incisions

Create 3 incisions

- 40-50mm dorsal-medial incision across the TMT joint.
- 15-25mm medial incision across MTP/MPJ head.
- 1st or 2nd interweb space incision.
  - 1st interweb space if lateral ligament release is required.
  - 2nd interweb space if lateral ligament release is not required.

Figure 1

Capsulotomy and distraction

- Capsulotomy of the 1st TMT joint.
- Insert 2.5mm pins into intermediate cuneiform and 1st metatarsal via the LapiFuse distractor.
- Distract the 1st TMT joint 10-15mm.

Joint preparation

- Manually prepare joint and remove cartilage with the LapiFuse joint preparation instruments.
- Fenestrate the joint surfaces with the 2.5mm drill and drill guide.

Figure 2

38140002
LapiFuse distractor

9914PK01
Joint preparation kit

Triplanar correction

- Insert 1.4mm wire into the head of the MTP/MPJ.
  - Biocortical, parallel w/ sesamoids, and perpendicular to the long axis of the metatarsal.
- Insert hook of the LapiFuse clamp around the 2nd metatarsal through either webspace incision.
- Insert base of the LapiFuse clamp over the 1.4mm wire and seat flush to the head of the MTP/MPJ.
- Assemble the LapiFuse clamp to reduce to de-rotate the sesamoids, reduce the IM angle and plantar flex the 1st ray.

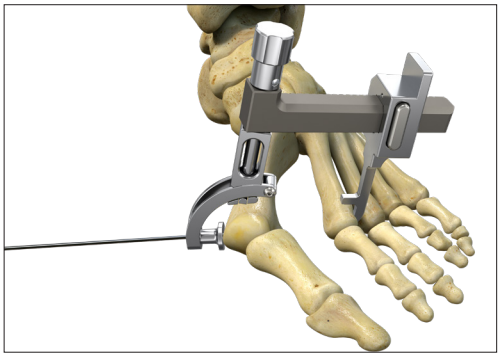


Figure 3

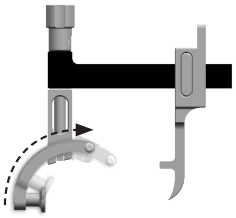
CSS-040-14
1.4 mm Kirshner Wire

38140001
LapiFuse clamp

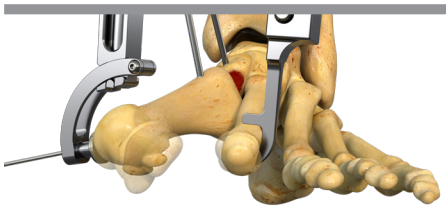
- De-rotation
  - Assembly of the clamp will passively de-rotate the sesamoids.
  - Active de-rotation can be achieved by manually adjusting the clamp base.
- Plantar Flexion
  - Inherent off-set between the hook and base will plantar flex the MTP to the anatomical location.
- IM Angle
  - Assemble the hook and base of the LapiFuse clamp and reduce to the correct IM angle.

Triplanar correction

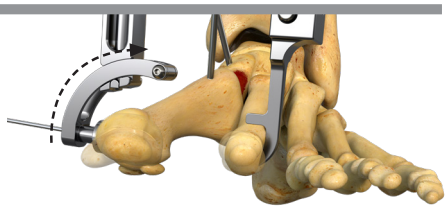
De-rotation



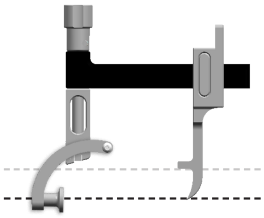
Before



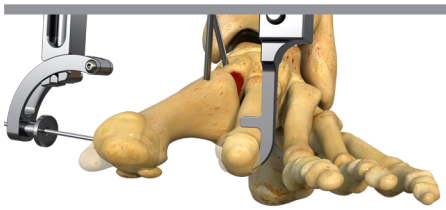
After



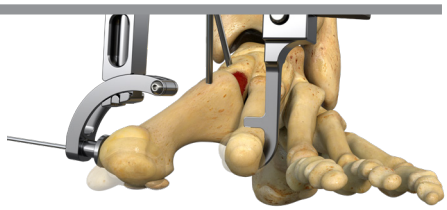
Plantar flexion



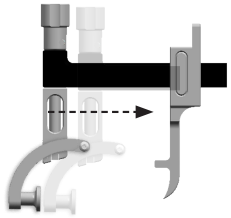
Before



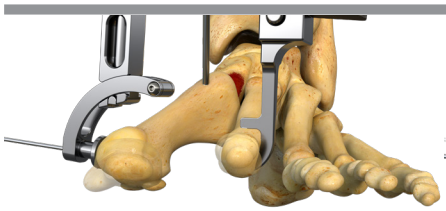
After



IM reduction



Before



After

Lag screw alignment

- Assemble targeting guide.
- Position targeting guide at the apex of the metatarsal base.
- Under fluro, align the targeting guide such that the drill guide is centered between the wires.
- Position targeting guide to target the center of the intermediate cuneiform.
- Insert 1.4mm wire through targeting guide, aiming plantar to dorsal, into the center of intermediate cuneiform.

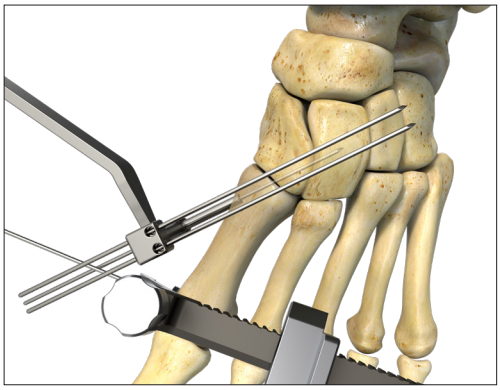


Figure 4

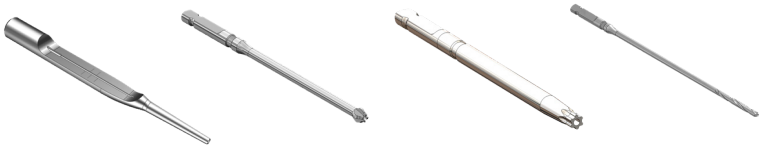
38140003
Targeting guide

38140003
Targeting guide:
alignment tower

CSS-040-14
1.4 mm Kirshner Wire

Lag screw preparation and insertion

- Use depth gauge to measure length of lag screw over the wire.
- Use drill guide and 2.7mm drill to prepare pilot hole across the joints.
- If necessary, use counter-sink.
- Insert the 4.0mm lag screw with T15 driver.
- Optionally, use LapiFuse Dome Washer.



38140004
Depth gauge

MSD-056-40
Hexstar driver

MSD-070-40
Countersink

CSS-071-27
2.7 mm drill

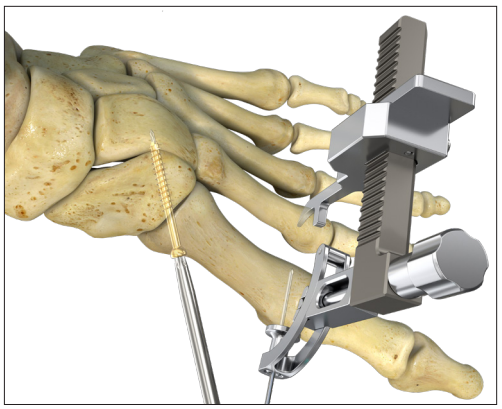


Figure 5

Plate and screw implantation

- Select the appropriate plate: standard or trans-met, 0mm or 2mm step.
- Position the plate dorsal medial across the TMT joint.
- Use plate tacks to temporarily hold plate in place.
- Drill and fill screw holes with either locking or non-locking screws.
  - Implant proximally first, then distally.
  - Use 2.5mm pre-drill for screw preparation.
  - Implant on-axis and 15° off-axis with T15 driver.
  - Compression screw through the plate should be non-locking, bi-cortical and be prepared distally in the slot.
  - Use depth gauge to determine screw length.

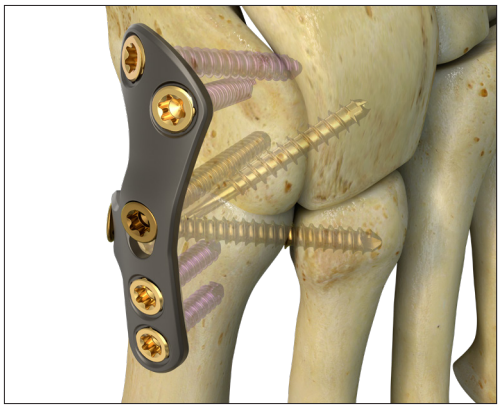
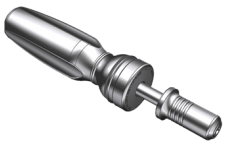


Figure 6



58881T15
Ratcheting driver

58820006
Fixation pin

58850025
2.5 mm drill

Foot & Ankle

AP-013429A, 03-2020

Manufacturer:
Stryker Corporation
1023 Cherry Road
Memphis, TN 38117
800 238 7117
901 867 9971
www.wright.com