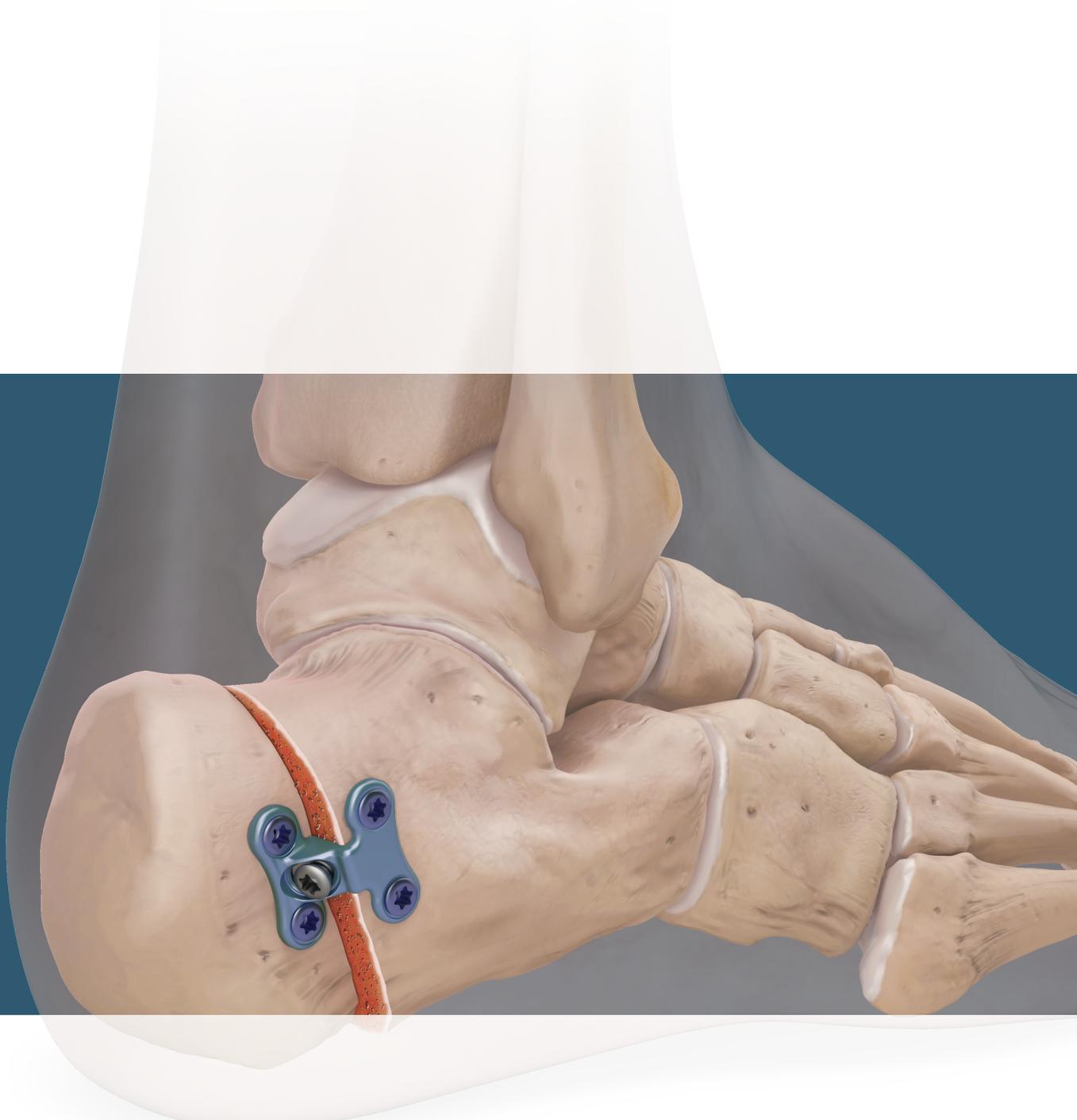


Calcaneus Step Plate

Surgical Technique



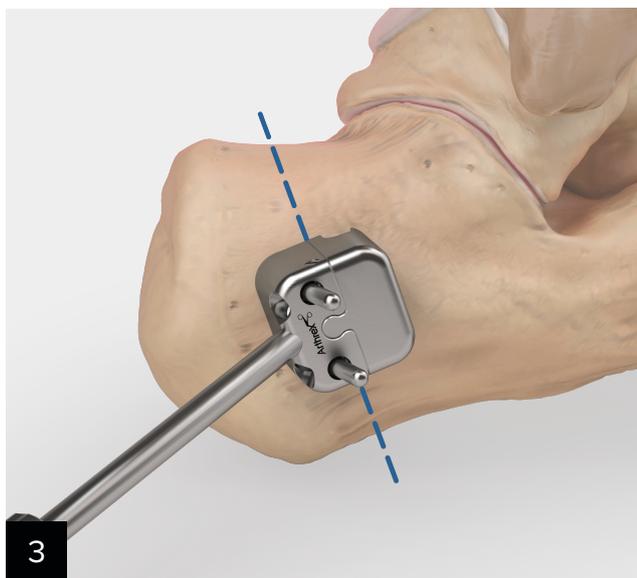
Medializing Calcaneal Osteotomy (MCO) With Calcaneus Step Plate



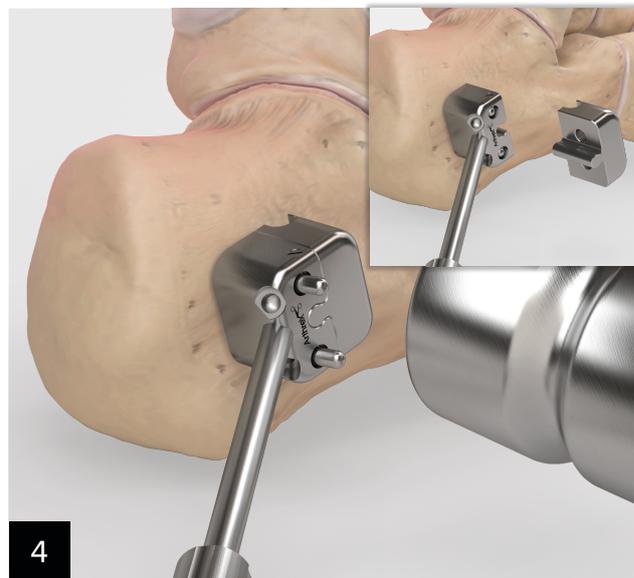
Perform an incision on the lateral side of the calcaneus. An “L”-shaped incision is recommended to avoid overlapping of the plate and to ensure optimal healing of scar tissue.



Dissect soft tissue and expose the calcaneus.

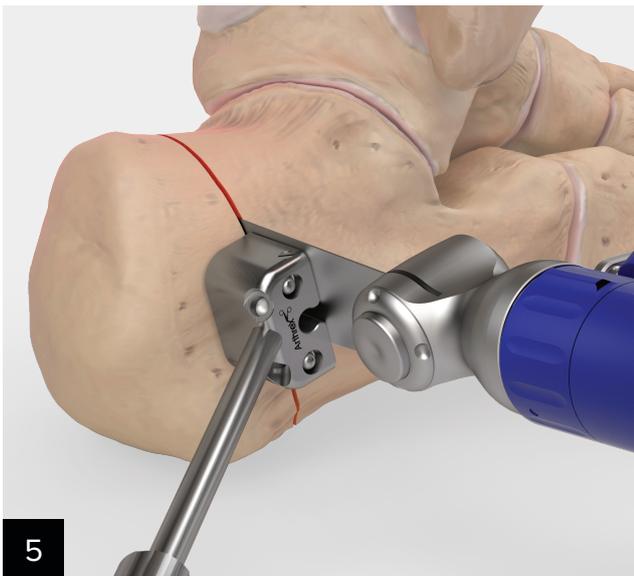


Use the saw template to indicate size and contour of the plate. The handle should point to the heel tip in order to perform an appropriate cut (35° – 45°).

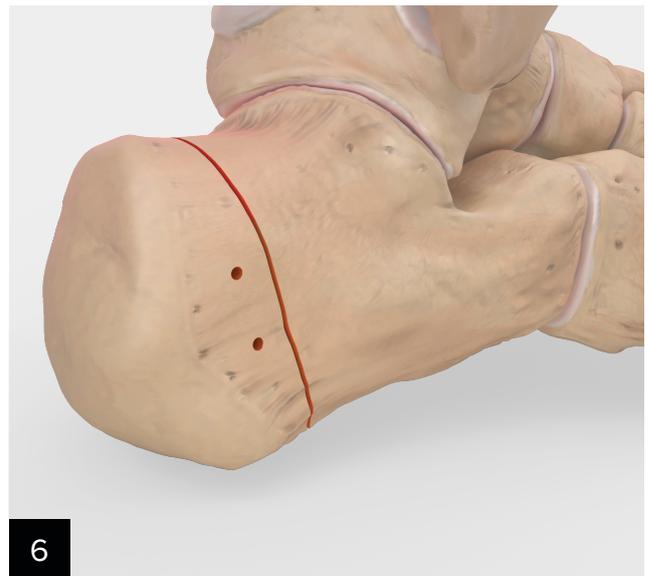


Fix the saw template by securing the pins with a mallet. Remove the mating part of the template when desired position is met.

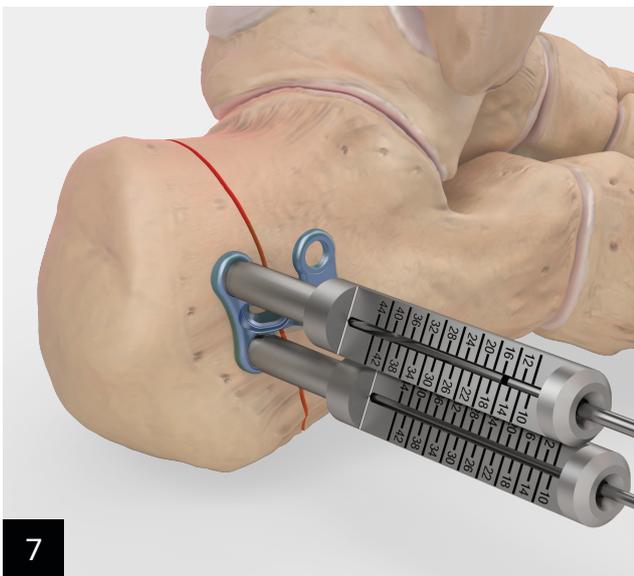
Medializing Calcaneal Osteotomy (MCO) With Calcaneus Step Plate



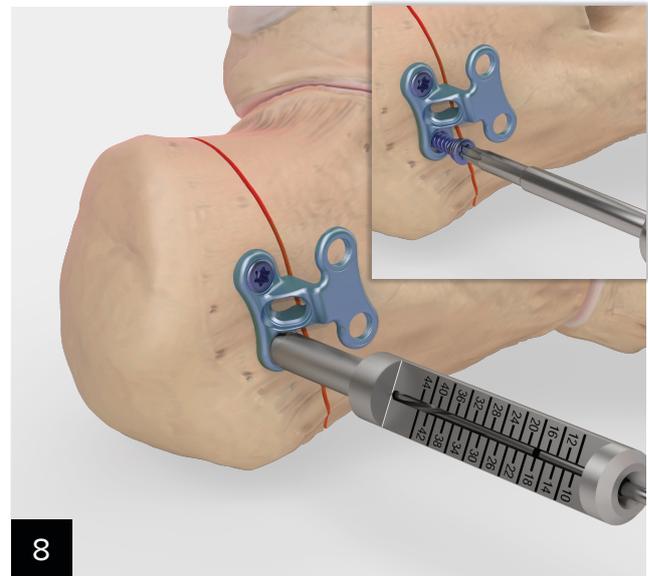
Use a saw blade (minimum length 50 mm) to cut along the template through the calcaneus. Hohmann retractors help to protect blood vessels and nerves on the medial side. Use a chisel to break the medial cortex completely.



Remove the saw template. The holes of the pins should be maintained as they indicate the best position for the plate. Insert K-wires into these holes and place the plate with preassembled drill guides over the K-wires on the calcaneus.

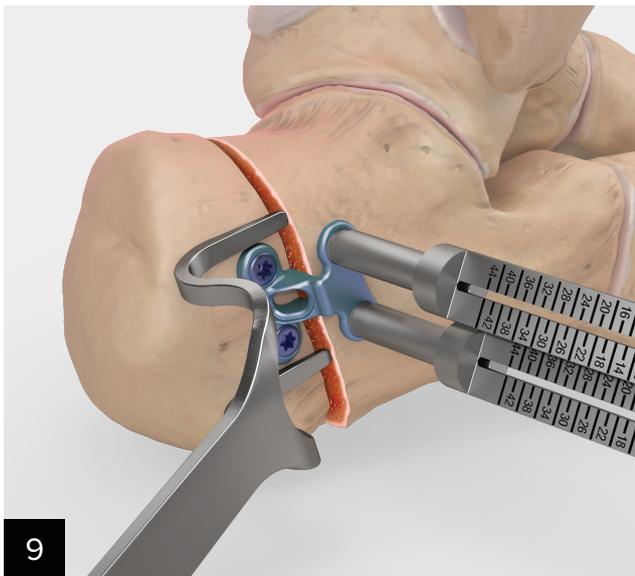


Remove one K-wire and drill the hole for the first locking screw using the 2.5 mm drill bit, noting the depth from the laser marking. Remove the drill guide and insert a 3.5 mm locking screw.

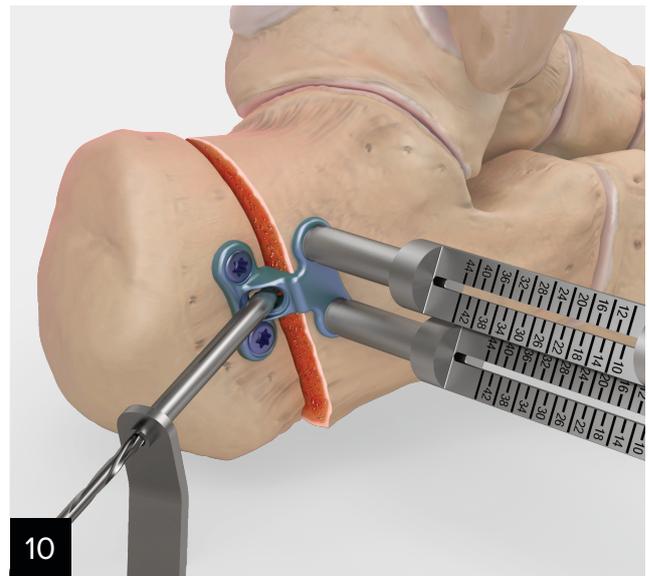


Remove the second K-wire, drill and measure the length for the next locking screw. Remove the second drill guide and insert a 3.5 mm locking screw.

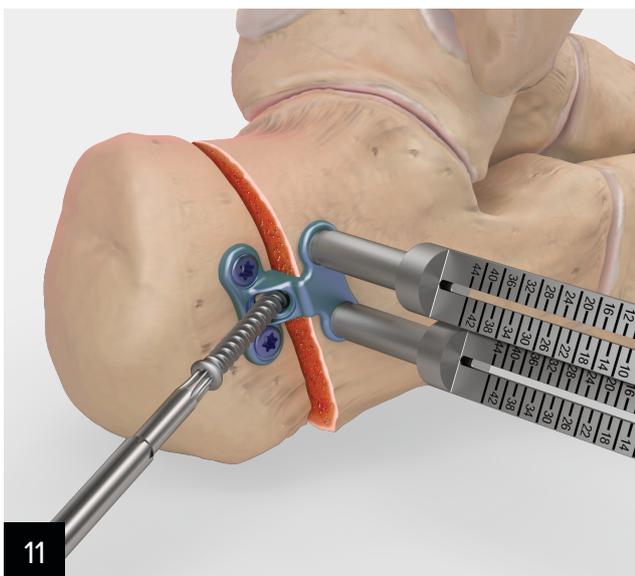
Medializing Calcaneal Osteotomy (MCO) With Calcaneus Step Plate



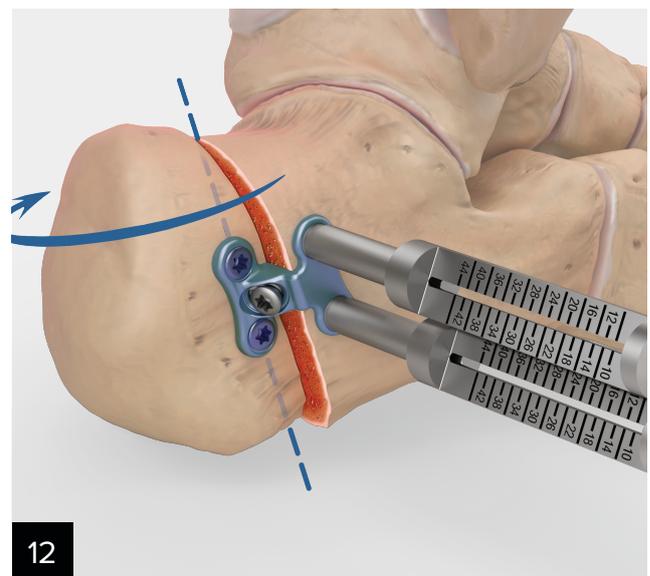
Thread the drill guides into the remaining locking holes and use them to medialize the calcaneus. The S-shaped retractor can be used to facilitate further displacement.



While maintaining the displacement, place the compression screw drill guide at a flat angle into the compression hole and drill using the 2.5 mm drill bit.

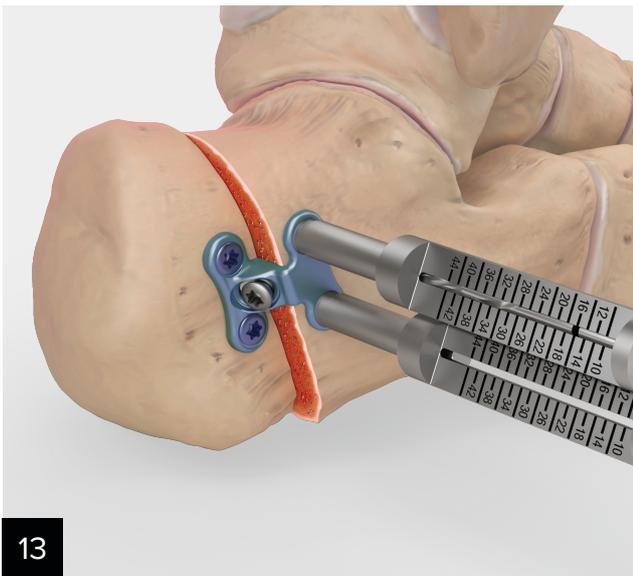


Measure the compression screw length using the depth gauge and insert the screw.

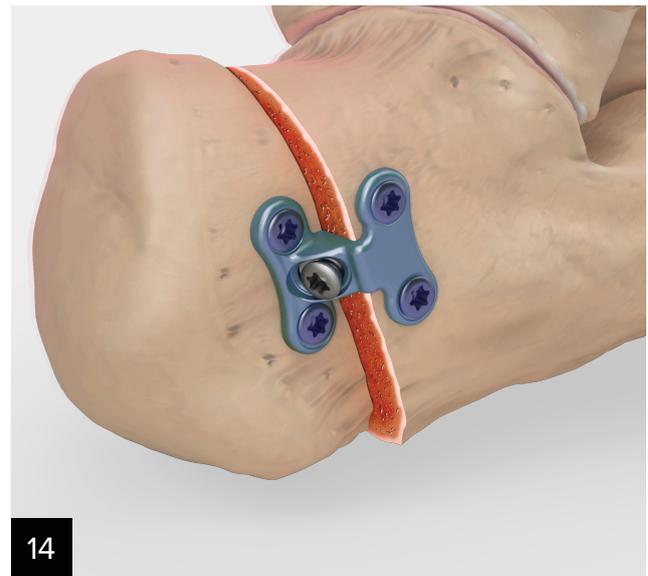


While tightening down the screw, interfragmentary compression is achieved between the two fragments by a circular shift of the posterior calcaneus fragment. It is important that the compression screw does not penetrate the subtalar joint.

Medializing Calcaneal Osteotomy (MCO) With Calcaneus Step Plate



Drill the holes for the locking screws through the drill guide. Measure the screw length and insert the screws.



Final plate placement.

Lateralizing Calcaneal Osteotomy (LCO) With Calcaneus Step Plate

The calcaneus step plate can also be used to perform a lateral sliding osteotomy. The surgical technique for this procedure is basically the same, except the saw template and the plate have to be rotated 180°. After the osteotomy cut has been performed, fix the plate with two locking screws on the anterior part of the calcaneus. Pull the loose part of the calcaneus towards the plate. While maintaining the displacement, drill with the 2.5 mm drill through the compression drill guide.



Remove one K-wire and drill the hole for the first locking screw using the 2.5 mm drill bit, noting the depth from the laser marking. Remove the drill guide and insert a 3.5 mm locking screw.



Remove the second K-wire, drill, and measure the length for the next locking screw. Remove the second drill guide and insert a 3.5 mm locking screw.

Ordering Information

Calcaneal Step Plate

Product Description	Item Number
Calcaneus Step Plate Instrument Set	AR-8949S
Saw Template	AR-8949ST
Handle for Saw Template	AR-14520H
Drill Sleeve for Compression Hole	AR-8949DG
Retractor for Calcaneus Step Plate, L-shaped	AR-8949RL
Retractor for Calcaneus Step Plate, S-shaped	AR-8949RS
Calcaneus Step Plate Instrument Case	AR-8949C

Plates

Product Description	Item Number
Calcaneus Step Plate, 5 mm	AR-8949-050
Calcaneus Step Plate, 7.5 mm	AR-8949-075
Calcaneus Step Plate, 10 mm	AR-8949-100

Screws

Product Description	Item Number
Low Profile Cortical Locking Screw, Ti, 3.5 mm × 14 mm - 60 mm	AR-8935L-14-60
Low Profile Cortical Screw, Ti, 3.5 mm × 14 mm - 60 mm	AR-8935-14-60
Low Profile Cancellous Screw, Ti, 14 mm - 60 mm	AR-8940-14-60

Disposable

Product Description	Item Number
Guidewire w/ Trocar Tip, nonthreaded, .094 in (2.4 mm)	AR-8967K

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