

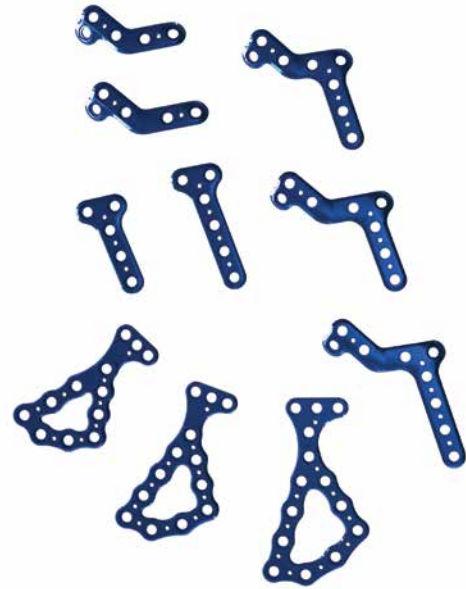
# Surgical Technique





Acumed® is a global leader of innovative orthopaedic and medical solutions.

We are dedicated to developing products, service methods, and approaches that improve patient care.



## Acumed® Calc-Jak

The Acumed Calc-Jak is designed specifically to restore patient anatomy by assisting surgeons in pulling displaced fractures of the calcaneus out to length prior to fixation. Facilitating patient positioning without the need for extra personnel, the instrument also allows for accurate fracture reduction.

The Calc-Jak is designed to allow for medial/lateral, anterior/posterior, and superior/inferior translation of a calcaneus fracture. These three translations can then be locked in place individually utilizing the Cam-levers. Additional fine tuning adjustments along the anterior/posterior and superior/inferior planes can then be applied prior to implant fixation.

The system can be used in conjunction with the minimally invasive, sinus tarsi approach for treating calcaneus fractures with Acumed® MINI-Calc® Plates.

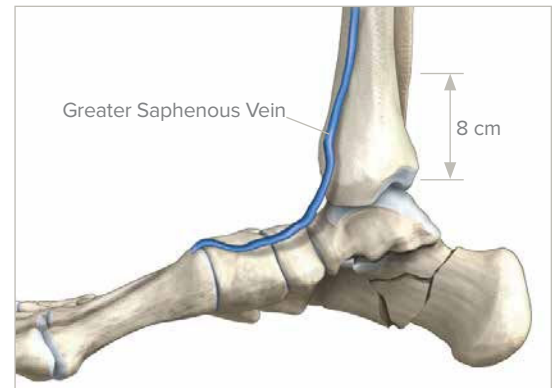
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# Calc-Jak Surgical Technique

## 1 TIBIAL PIN PLANNING

Locate the safe zone for medial tibial Threaded Pin insertion approximately 8 cm superior to the ankle joint. The Threaded Pins will be placed on the medial aspect of the tibia, extending laterally.

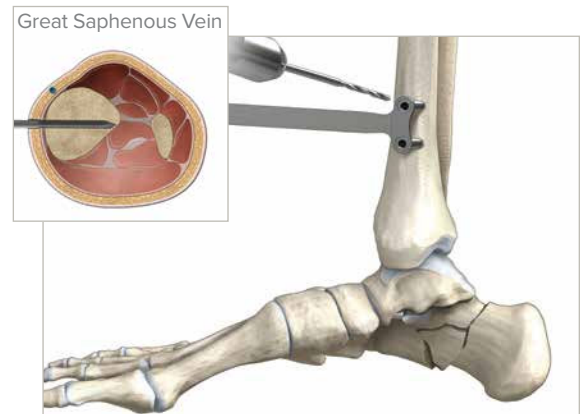


## 2 TIBIAL PIN INSERTION

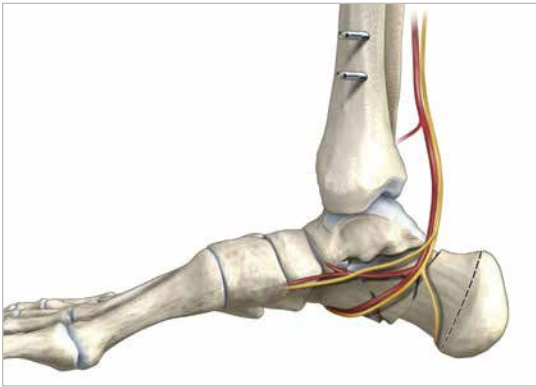
Use the appropriate Parallel Pin Guide to determine the placement of the Threaded Pins into the tibia.

**Caution:** Avoid underlying neurovascular bundles, especially the great saphenous vein and saphenous nerve.

Bluntly dissect down to the medial surface of the tibia, if necessary. Drill using the corresponding drill and insert the desired Threaded Pin through the Parallel Pin Guide. Ensure pins are placed medial to lateral in the coronal plane.

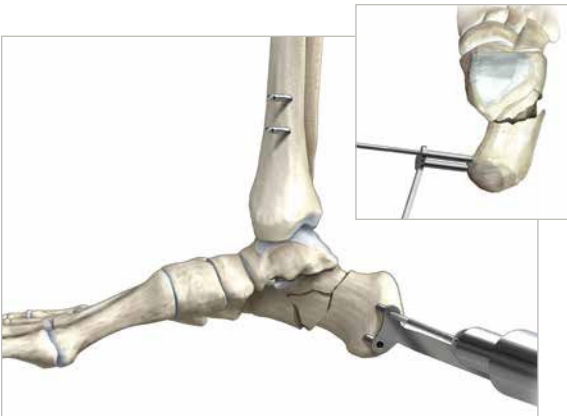


Pin Size	Drill Size	Parallel Pin Guide
4.0 mm Threaded Pin, Quick Release (80-1394)	3.0 mm Drill, 4.0 mm Shank, Quick Release (80-1396)	4.0 mm Parallel Pin Guide (80-1398)
5.0 mm Threaded Pin, Quick Release (80-1395)	3.8 mm Drill, 5.0 mm Shank, Quick Release (80-1397)	5.0 mm Parallel Pin Guide (80-1402)



### 3 CALCANEAL PIN PLANNING

Locate the safe zone of the posterior tuberosity for desired placement of the Threaded Pins into the calcaneus.



### 4 CALCANEAL PIN INSERTION

Use the Parallel Pin Guide to determine appropriate placement of the Threaded Pins into the calcaneus.

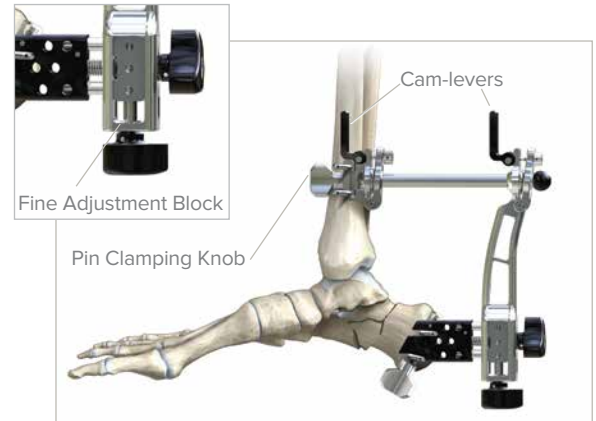
**Caution:** Avoid underlying neurovascular bundles, especially the great saphenous vein and saphenous nerve.

Bluntly dissect down to the medial surface of the tibia, if necessary. Drill using the corresponding drill and insert the desired Threaded Pin through the Parallel Pin Guide. Ensure pins are placed medial to lateral in the coronal plane.

Pin Size	Drill Size	Parallel Pin Guide
4.0 mm Threaded Pin, Quick Release (80-1394)	3.0 mm Drill, 4.0 mm Shank, Quick Release (80-1396)	Parallel Pin Guide, 4.0 mm (80-1398)
5.0 mm Threaded Pin, Quick Release (80-1395)	3.8 mm Drill, 5.0 mm Shank, Quick Release (80-1397)	Parallel Pin Guide, 5.0 mm (80-1402)

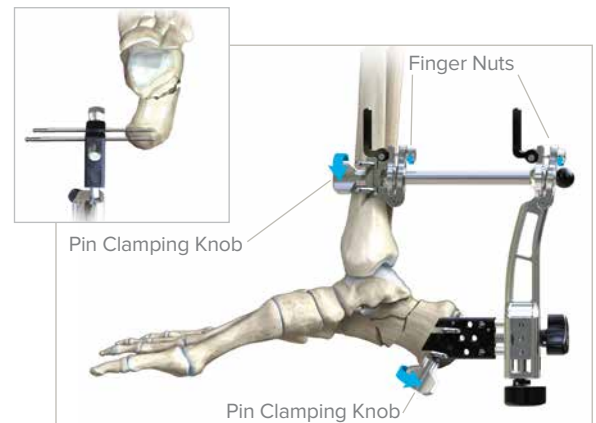
## 5 ATTACH THE CALC-JAK

Ensure the Cam-levers are open to allow for uninterrupted movement and the Fine Adjustment Block is fully superior and extended to allow for additional distraction of the tuberosity. Slide the Calc-Jak on to the threaded tibial and calcaneal pins.



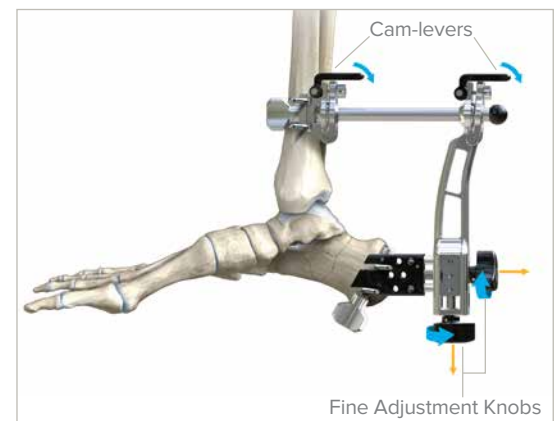
## 6 TIGHTEN THE CALC-JAK

Tighten the Pin Clamping Knobs on the Threaded Pins inserted in the tibia and calcaneus. Tighten the Finger Nuts to ensure adequate clamping force prior to distraction.



## 7 PULL FRACTURE OUT TO LENGTH

Using the Cal-Jak for leverage, reduce the tuberosity and pull the fracture out to length. Close the Cam-levers down to lock the positioning of the calcaneus. Additional fine tune adjustments can be made using the Fine Adjustment Knobs.





## REMOVE THE CALC-JAK

Remove the Calc-Jak by opening the Cam-levers, loosening the Pin Clamping Knobs, and unclamping the device from the pins. Then, remove the Threaded Pins.

# Ordering Information

## Calc-Jak Instrument System

Calc-Jak	80-1360
Calc-Jak Usage Fee	75-0107
4.0 mm Threaded Pin, Quick Release	80-1394
5.0 mm Threaded Pin, Quick Release	80-1395
3.0 mm Drill, 4.0 mm Shank, Quick Release	80-1396
3.8 mm Drill, 5.0 mm Shank, Quick Release	80-1397
Parallel Pin Guide, 4.0 mm	80-1398
Parallel Pin Guide, 5.0 mm	80-1402
Large T-Handle Locking Pin Driver	80-1406
Calcaneal Instrumentation Tray, Lid	80-1408
Calcaneal Instrumentation Tray, Base	80-1409
Calcaneal Instrumentation Tray, Insert	80-1410
Calc-Jak System	15-0116

To learn more about the full line of Acumed® innovative surgical solutions, please contact your local Acumed® Sales Representative, call 888.627.9957, or visit [acumed.net](http://acumed.net).



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