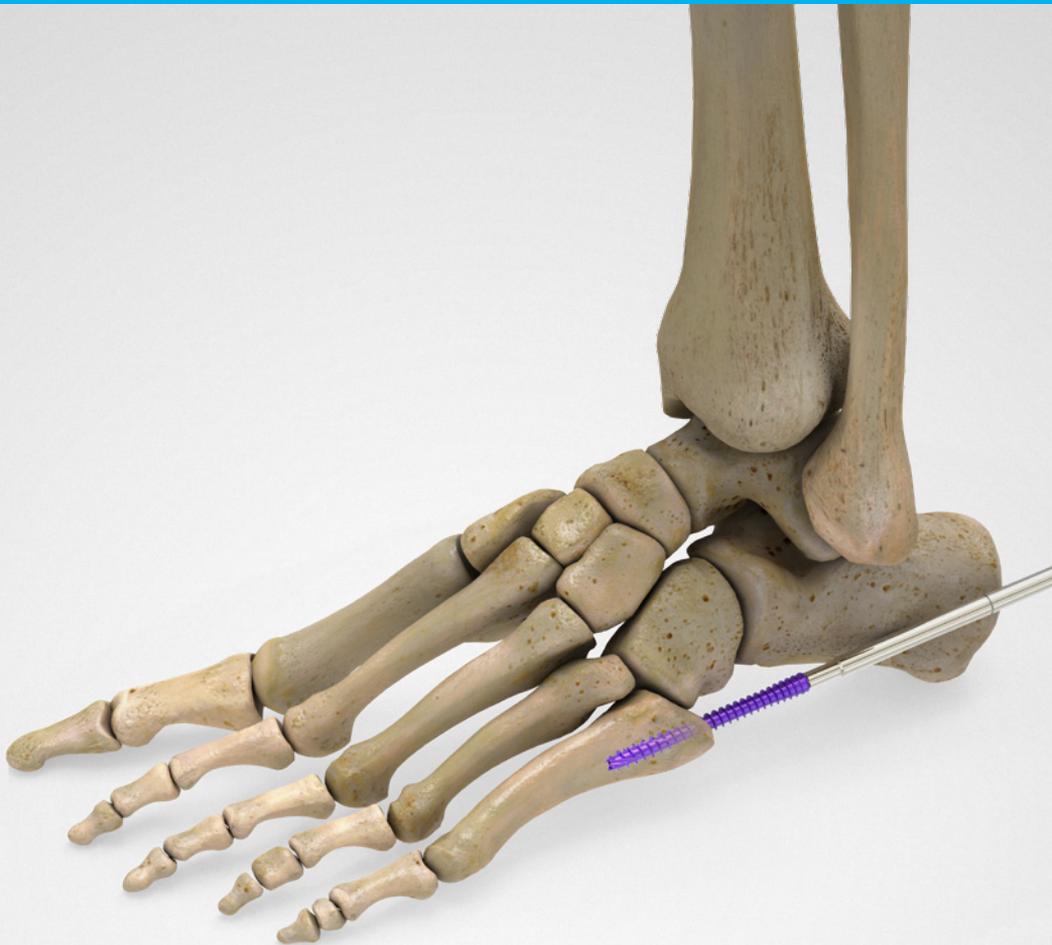




## Acutrak 2® Headless Compression Screw System

4.7 mm and 5.5 mm Screws

### Supplemental Use Guide—Proximal Fifth Metatarsal Fracture (Jones Fracture)



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® Acutrak 2® Headless Compression Screw System—4.7 mm and 5.5 mm

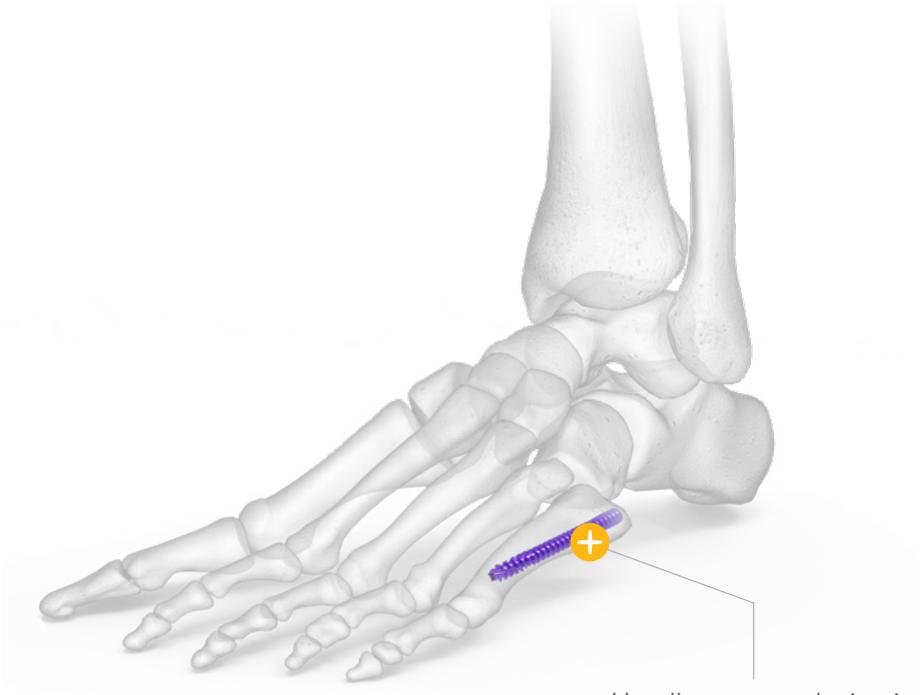
This guide is intended for supplemental use only and is not intended to be used as a stand-alone surgical technique. Reference the Acumed Acutrak 2 Headless Compression Screw System Surgical Technique (SPF00-02) for more information.

	Definition
<b>Warning</b>	Indicates critical information about a potential serious outcome to the patient or the user.
<b>Caution</b>	Indicates instructions that must be followed in order to ensure the proper use of the device.
<b>Note</b>	Indicates information requiring special attention.

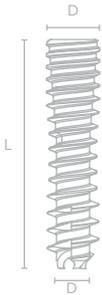
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# System Features



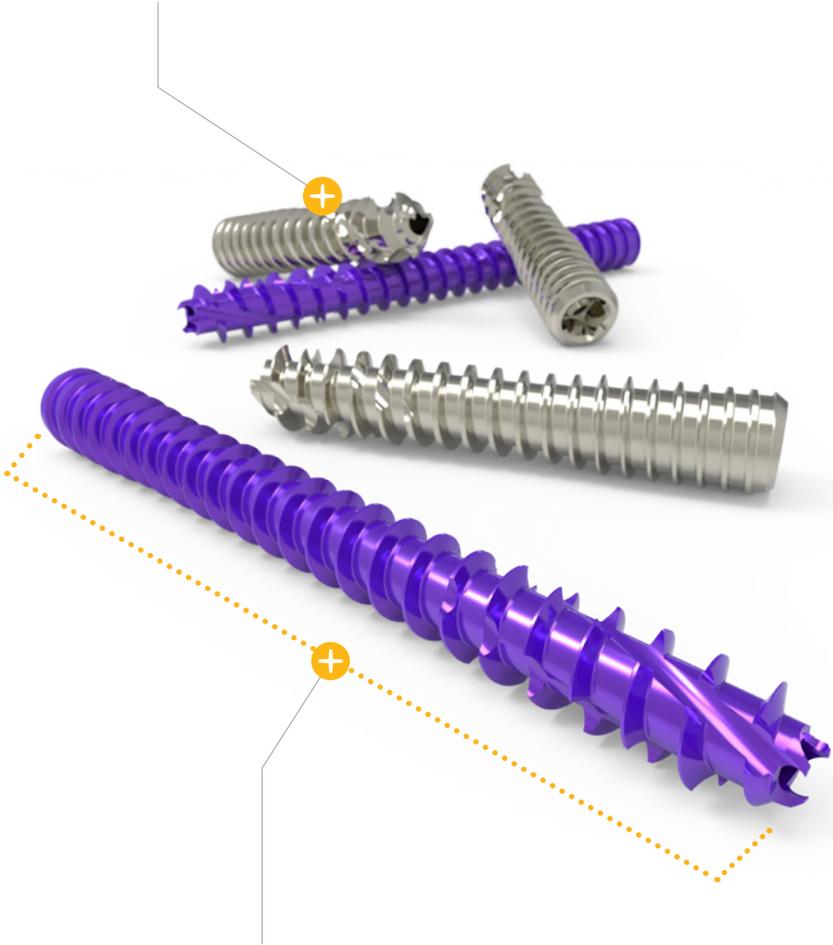
Headless screw design is intended to minimize soft tissue irritation



Acutrak 2 Screws	Diameter	Length
4.7 mm	Tip: 4.5 mm	2 mm increments 20–30 mm
	Tail: 4.7 mm	5 mm increments 30–50 mm
5.5 mm	Tip: 5.2 mm	5 mm increments 25–60 mm
	Tail: 5.5 mm	

## System Features [continued]

Self-cutting and self-tapping screw is designed to facilitate insertion into hard bone



Fully threaded, continuously variable thread pitch allows each thread along the entire length of the screw to aid in the reduction and compression of the fracture

# Proximal Fifth Metatarsal (Jones Fracture) Surgical Technique: Acutrak 2®—4.7 and 5.5

Figure 1



## 1 Patient Positioning

Position the patient in a semi-lateral position utilizing a bean bag body positioner. The patient should be moved to the distal end of the bed and the operative leg draped free as the side up. Exertion of the operative limb should be checked prior to prep and drape to confirm that the operative limb can be positioned on the mini C-arm during surgery.

# Proximal Fifth Metatarsal (Jones Fracture) Surgical Technique: Acutrak 2®—4.7 and 5.5 [continued]



Figure 2

## **2** Indication Area Outline

The base of the fifth metatarsal is outlined, including the insertions of the peroneus brevis and tertius tendons.

# Proximal Fifth Metatarsal (Jones Fracture) Surgical Technique: Acutrak 2®—4.7 and 5.5 [continued]

Figure 3



## 3 Approach and Exposure

The guide wire, .062", for the Acutrak 2–4.7 Screw can be positioned at the base of the fifth metatarsal under fluoroscopic guidance. A small incision is made at the base of the fifth metatarsal at the intersection of the peroneus brevis and tertius tendons.

**Caution:** Care is made to identify and protect the sural nerve branches that run over the peroneal tendons.

If necessary, fibers of the lateral aponeurosis and peroneus brevis tendon are separated and retracted away from the styloid process of the base of the fifth metatarsal. A mini Hohmann retractor is placed on the plantar aspect of the base of the fifth metatarsal. The surgeon's fingers can be used to reduce the fifth metatarsal fracture by placing them in between the fourth and fifth metatarsals. This closes down the fifth metatarsal fracture site during guide wire, drill and screw placement. A guide wire is drilled from the base of the fifth metatarsal into the central portion of the metatarsal shaft. It is maintained within the intramedullary canal in order to avoid distal penetration. Confirm placement with fluoroscopy.

# Proximal Fifth Metatarsal (Jones Fracture) Surgical Technique: Acutrak 2®—4.7 and 5.5 [continued]

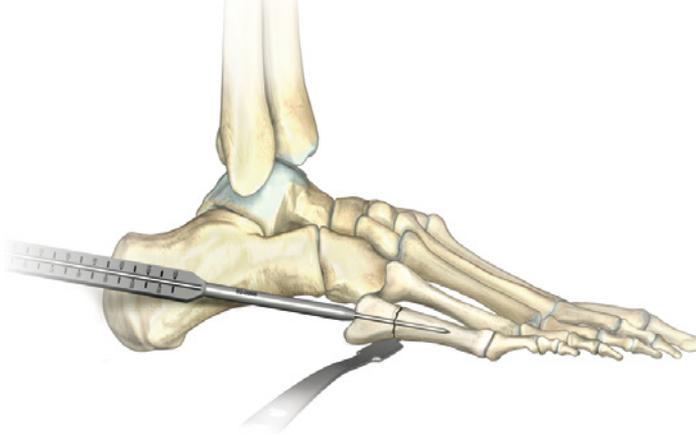


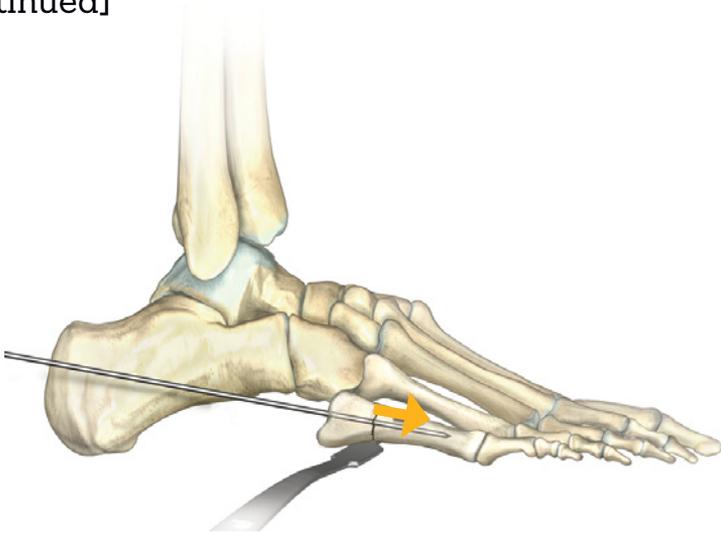
Figure 4

## **4** Measure Depth

Depth is measured from the exposed portion of the guide wire with the cannulated depth gauge.

# Proximal Fifth Metatarsal (Jones Fracture) Surgical Technique: Acutrak 2®—4.7 and 5.5 [continued]

Figure 5



## 5 Advance Guide Wire

After selecting the appropriate size, advance the guide wire approximately 5 mm to maintain distal pin fixation before drilling.

**Caution:** Make sure not to compromise the distal joint surfaces when advancing the guide wire.

# Proximal Fifth Metatarsal (Jones Fracture) Surgical Technique: Acutrak 2®—4.7 and 5.5 [continued]

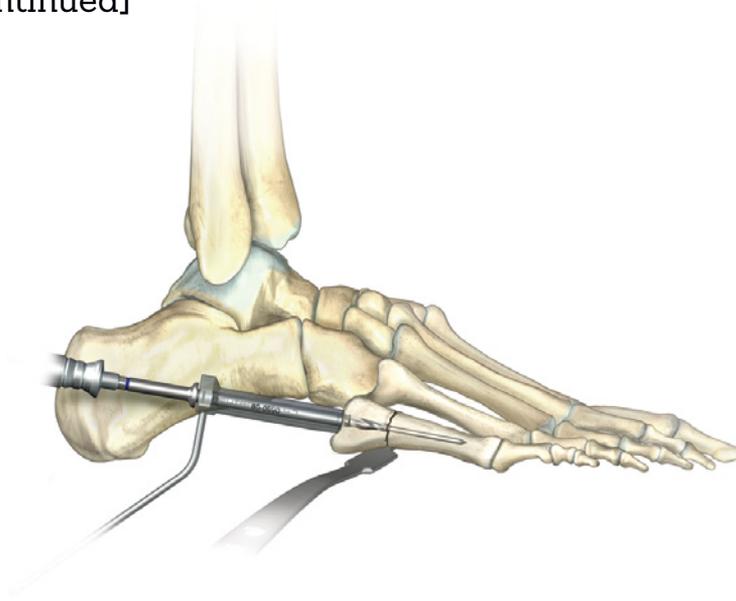


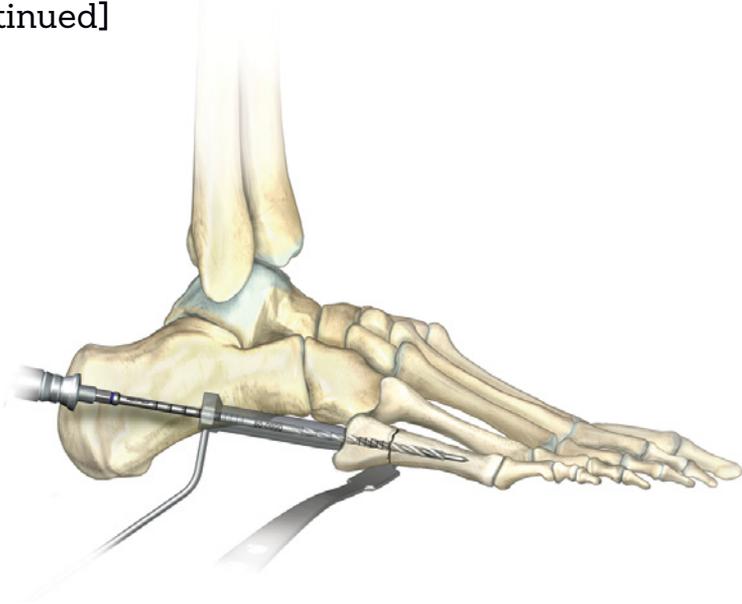
Figure 6

## 6 Drill the Near Cortex

Place the soft tissue guide (the guide should be used throughout) over the guide wire and open the near cortex using the appropriate cannulated profile drill.

# Proximal Fifth Metatarsal (Jones Fracture) Surgical Technique: Acutrak 2®—4.7 and 5.5 [continued]

Figure 7



## 7 Drill

Leaving the soft tissue guide in place, drill into the far fragment with the appropriate cannulated, long drill. Reference the markings on the drill to confirm desired depth.

**Caution:** The long drill is recommended to mitigate the effects of varying bone density and distraction upon screw insertion.

# Proximal Fifth Metatarsal (Jones Fracture) Surgical Technique: Acutrak 2®—4.7 and 5.5 [continued]

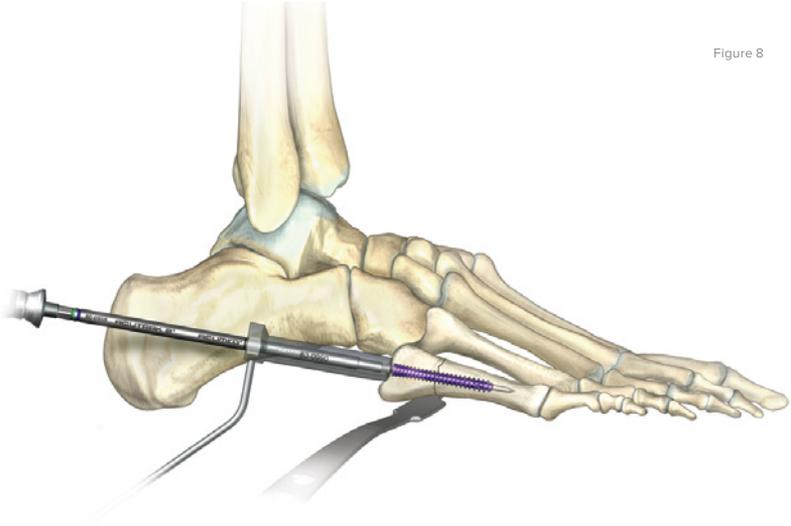


Figure 8

## 8 Fracture Compression

In order to account for countersinking and fracture compression, a screw that measures 5 mm shorter than the measured total depth is inserted over the guide wire while protecting the soft tissues with a soft tissue guide.

# Proximal Fifth Metatarsal (Jones Fracture) Surgical Technique: Acutrak 2®—4.7 and 5.5 [continued]

Figure 9

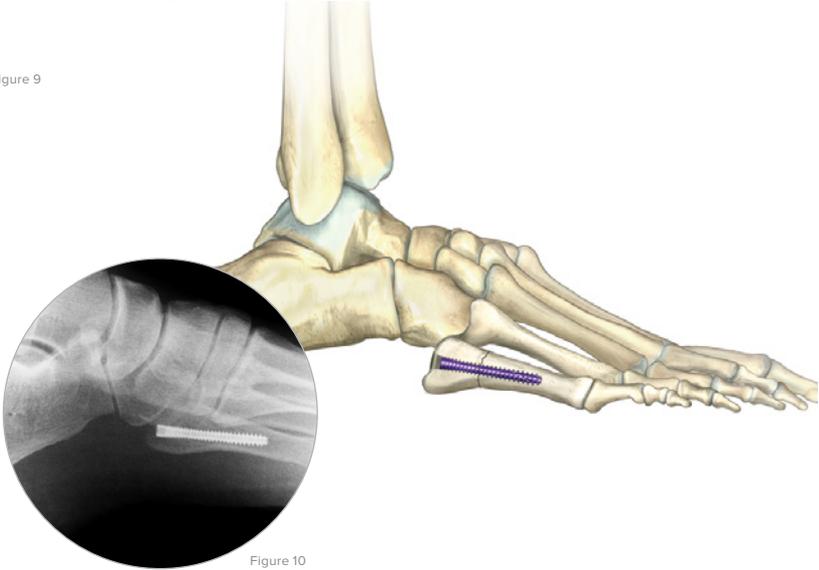


Figure 10

## 9 Screw Insertion

The screw is placed while under fluoroscopic guidance in order to avoid cortical penetration.

# Ordering Information

## Acutrak 2®—4.7

### Implants

20 mm Acutrak 2—4.7 Screw	30-0620
22 mm Acutrak 2—4.7 Screw	30-0622
24 mm Acutrak 2—4.7 Screw	30-0624
26 mm Acutrak 2—4.7 Screw	30-0626
28 mm Acutrak 2—4.7 Screw	30-0628
30 mm Acutrak 2—4.7 Screw	30-0630
35 mm Acutrak 2—4.7 Screw	30-0635
40 mm Acutrak 2—4.7 Screw	30-0640
45 mm Acutrak 2—4.7 Screw	30-0645
50 mm Acutrak 2—4.7 Screw	30-0650

### Instrumentation

Acutrak 2—4.7 Profile Drill	80-0945
Acutrak 2—4.7 Long Drill	80-0946

# Ordering Information [continued]

## Acutrak 2®—5.5

### Implants

25 mm Acutrak 2—5.5 Screw	30-0021
30 mm Acutrak 2—5.5 Screw	30-0023
35 mm Acutrak 2—5.5 Screw	30-0025
40 mm Acutrak 2—5.5 Screw	30-0027
45 mm Acutrak 2—5.5 Screw	30-0029
50 mm Acutrak 2—5.5 Screw	30-0031
55 mm Acutrak 2—5.5 Screw	30-0084
60 mm Acutrak 2—5.5 Screw	30-0085

### Instrumentation

Acutrak 2 - 5.5 Profile Drill Large AT2	80-0955
Acutrak 2 - 5.5 Long Drill Large AT2	80-0956

## Additional Instrumentation

### 4.7 and 5.5 Instrumentation

1.6 mm Guide Wire Probe	80-0992
1.6 mm (.062") x 9.25" Guide Wire	80-0950
3.0 mm Cannulated QR Hex Driver Tip AT2	80-0958
3.0 mm Solid QR Hex Driver Tip AT2	80-0959

## Ordering Information [continued]

### Additional Instrumentation

#### 4.7 and 5.5 Instrumentation

Large Acutrak 2 Drills and Driver Platter	80-0870
Large Acutrak 2 Common Instrument Platter	80-0871
Small Ratchet Handle with QR Connection	80-0398
Forceps	AT-7005
Sharp Hook	PL-CL06
3.0 mm Easyout, Quick Release	80-0601
Large Acutrak 2 4.7 and 5.5 Screw Platter	80-0876
Large Acutrak 2 4.7 Screw Caddy	80-0878
Large Acutrak 2 5.5 Screw Caddy	80-0880
Large Acutrak 2 Screw 2 x 2 Base	80-0884
Large Acutrak 2 Screw Lid	80-0885

### Additional Sterile Instrumentation

Large Acutrak 2 Screw System Lid	80-0869
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**Note:** All screws are also available sterile-packed. Add an -S to end of product number for sterile product.

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







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