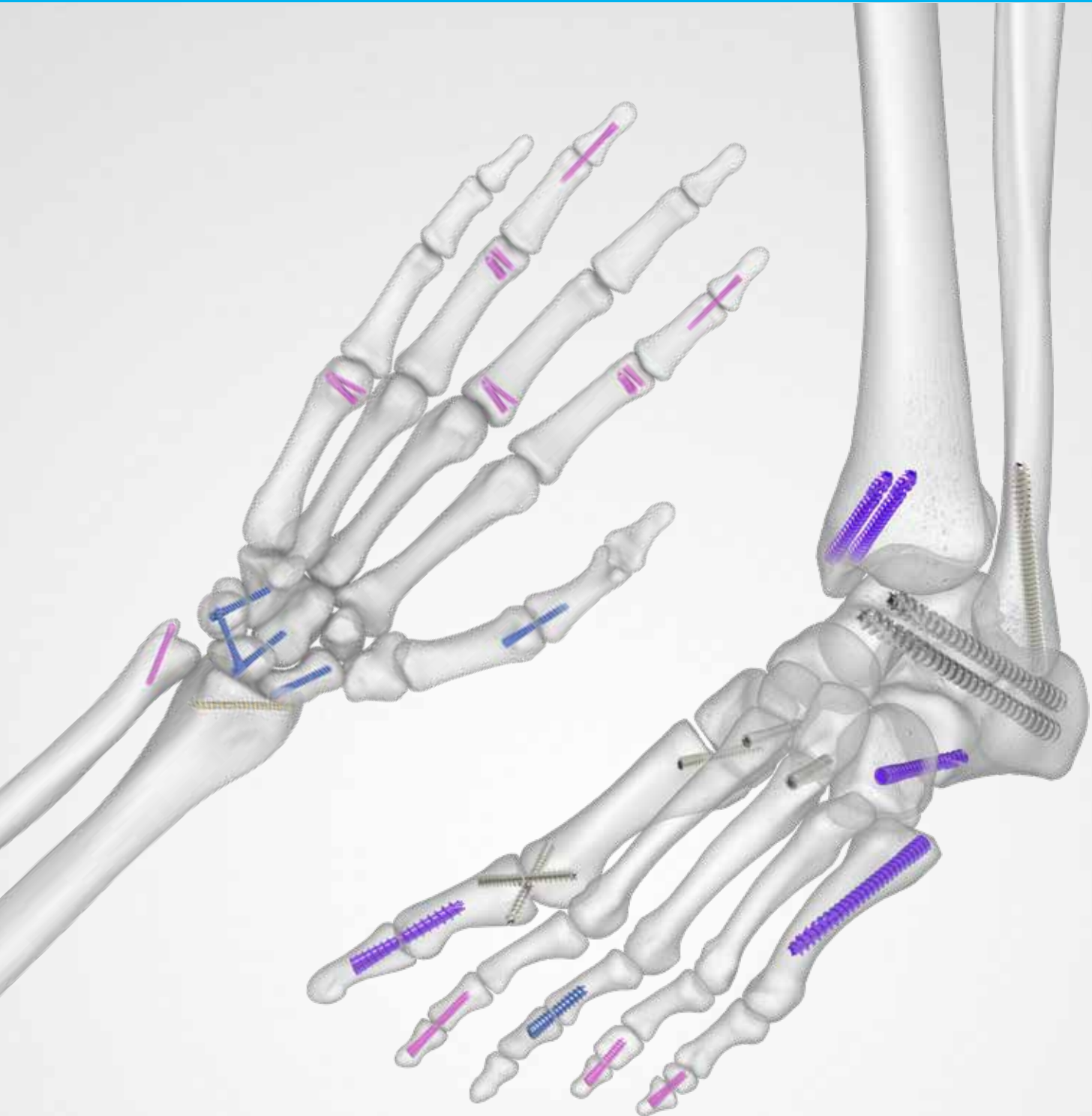


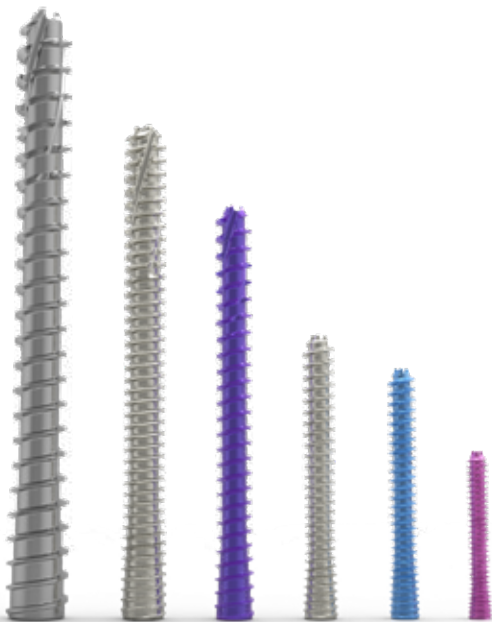
Surgical Technique



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.



Acutrak 2® Headless Compression Screw System

Since its introduction in 1994, the Acutrak Headless Compression Screw technology has revolutionized the way surgeons treat fractures, fusions, and osteotomies. The Acutrak 2 is the next generation in fully threaded headless fixation, offering larger guide wires, larger hex drivers, and a tapered end, reducing drill depth sensitivity. Long-term surgeon feedback has helped develop this continuously variable fully threaded headless implant with instrumentation designed to simplify the surgical technique.

The Acutrak 2 family is composed of 68 unique screw size options to fit a wide variety of applications throughout the body, from 2 mm x 8 mm up to 7.5 mm x 120 mm.

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

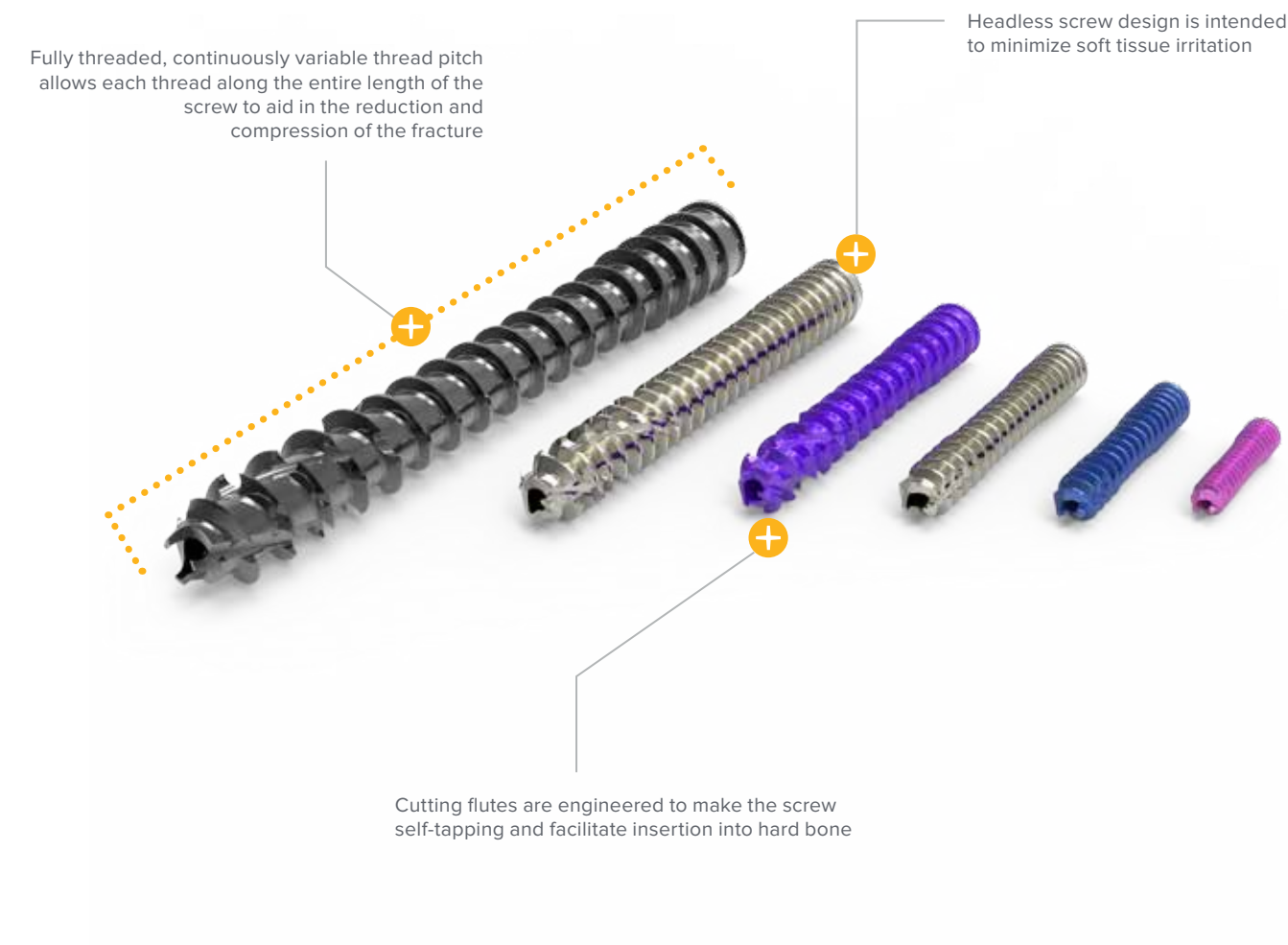


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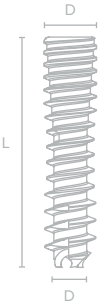
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System Features



Acutrak 2 Screws	Diameter	Length	
Micro	Tip: 2.5 mm Tail: 2.8 mm	1 mm increments 8–14 mm	2 mm increments 14–30 mm
Mini	Tip: 3.5 mm Tail: 3.6 mm	2 mm increments 16–30 mm	
Standard	Tip: 4.0 mm Tail: 4.1 mm	2 mm increments 16–34 mm	
4.7	Tip: 4.5 mm Tail: 4.7 mm	2 mm increments 20–30 mm	5 mm increments 30–50 mm
5.5	Tip: 5.2 mm Tail: 5.5 mm	5 mm increments 25–60 mm	
7.5	Tip: 7.0 mm Tail: 7.5 mm	5 mm increments 40–120 mm	



Instrument Overview

Micro Acutrak 2 Instruments



.035 Diameter, Parallel Wire Guide Assembly
(AT2-3500)



Micro Acutrak 2 Drill
(AT2-1509)



1.5 mm Cannulated Quick Release Driver Tip
(HT-0915)



Micro Acutrak 2 Drill, Long
(80-0100)



.035" x 5.75" Single Trocar Guide Wire
(WS-0906ST)

Micro Acutrak 2 Extension Instruments



Micro Acutrak 2 Extended Long Drill
(80-1522)



Micro Acutrak 2 Screw Sizer
(80-1523)



.035" x 6" Single Trocar Guide Wire
(80-1524)



.035" x 6" Double Trocar Guide Wire
(80-1525)

Part Number	Part Description	Screw Sizer	Description	Measurement Range
WS-0906ST	.035 x 5.75 in Single Trocar Guide Wire	AT2-SMCZ	AT2 Screw Sizer	8–20 mm
80-1524	.035 x 6 in Single Trocar Guide Wire	80-1523	Micro Acutrak 2 Screw Sizer	8–30 mm
80-1525	.035 x 6 in Double Trocar Guide Wire			

Instrument Overview [continued]

Mini Acutrak 2 Instruments



**.045 Diameter, Parallel Wire
Guide Assembly**
(AT2-4500)



**.045" x 6.0" Single Trocar
Guide Wire**
(WS-1106ST)



Mini Acutrak 2 Drill
(AT2M-1813)



Mini Acutrak 2 Drill, Long
(AT2M-L1813)



**2.0 mm Cannulated Quick
Release Driver Tip**
(HT-1120)

Standard Acutrak 2 Extension Instruments



**.054 Diameter, Parallel Wire
Guide Assembly**
(AT2-5400)



**.054" x 7.0" Single Trocar
Guide Wire**
(WS-1407ST)



Acutrak 2 Drill
(AT2-2515)



Acutrak 2 Drill, Long
(AT2-L2515)



**2.5 mm Cannulated Quick
Release, Driver Tip**
(HT-1725)

Acutrak 2 – 4.7 Instruments



Acutrak 2 – 4.7 Profile Drill
(80-0945)



Acutrak 2 – 4.7 Long Drill
(80-0946)

Instrument Overview [continued]

Acutrak 2 – 5.5 Instruments



Acutrak 2 – 5.5 Profile Drill
(80-0955)



Acutrak 2 – 5.5 Long Drill
(80-0956)

Acutrak 2 – 4.7 and 5.5 Instruments



1.6 mm Guide Wire Probe
(80-0992)



.062" (1.6 mm) x 9.25" Guide Wire
(80-0950)



Acutrak 2 3.0 mm Cannulated Quick Release Hex Driver Tip
(80-0958)



Acutrak 2 3.0 mm Solid Quick Release Hex Driver Tip
(80-0959)

Acutrak 2 – 7.5 Instruments



2.4 mm Guide Wire Probe
(80-0994)



.094" (2.4 mm) x 9.25" Guide Wire
(80-0970)



.094" (2.4 mm) x 9.25" Guide Wire, Threaded
(80-0971)



Acutrak 2 – 7.5 Profile Drill
(80-0975)



Acutrak 2 – 7.5 Long Drill
(80-0976)



Acutrak 2 4.0 mm Cannulated Quick Release Hex Driver Tip
(80-0978)



Acutrak 2 4.0 mm Solid Quick Release Hex Driver Tip
(80-0979)

Surgical Technique Overview

Volar Scaphoid Technique:
Acutrak 2 Micro, Mini, and
Standard

Approach and
Needle Insertion



Guide Wire
Insertion



Determine Screw
Length



Dorsal Scaphoid
Technique: Acutrak 2
Micro, Mini, and Standard

Approach and
Needle Insertion



Fracture
Stabilization

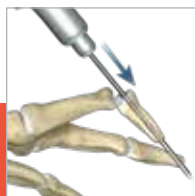


Determine Screw
Length

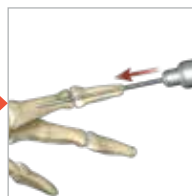


DIP Fusion Technique:
Acutrak 2 Micro Extended

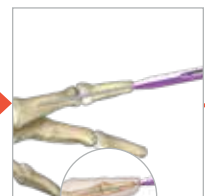
Advance
Double-Ended
Trocar Guide Wire



Proximal Middle
Phalanx Reduction



Determine Screw
Length



Advance Guide Wire



Drill



Advance Self-Tapping Screw



Advance Guide Wire



Drill Near Cortex



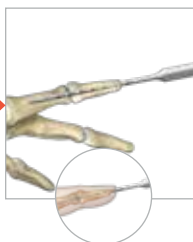
Drill Far Fragment



Screw Insertion



Drill



Screw Insertion



Surgical Technique Overview [continued]

Jones Fracture
Technique: Acutrak 2
4.7 and 5.5 mm

Patient Positioning



Indication Area
Outline



Approach and
Exposure



Measure Depth

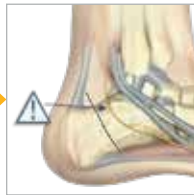


Calcaneal Osteotomy
Technique: Acutrak 2
7.5 mm

Patient Positioning



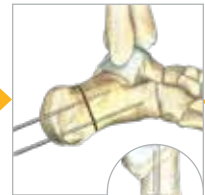
Approach and
Exposure



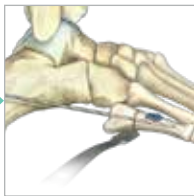
Create Osteotomy



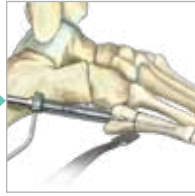
Guide Wire
Placement



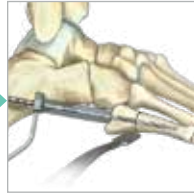
Advance Guide Wire



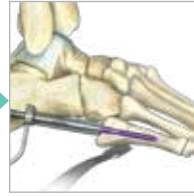
Soft Tissue Guide Placement



Drill



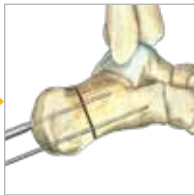
Fracture Compression



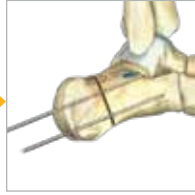
Screw Insertion



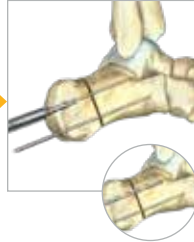
Measure Depth



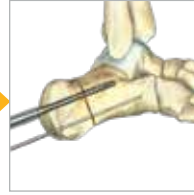
Select Screw Size



Drill



Screw Insertion



Additional Screw Placement



Volar Scaphoid Technique: Acutrak 2 Micro, Mini, and Standard

Nicholas Goddard, MB, FRCS

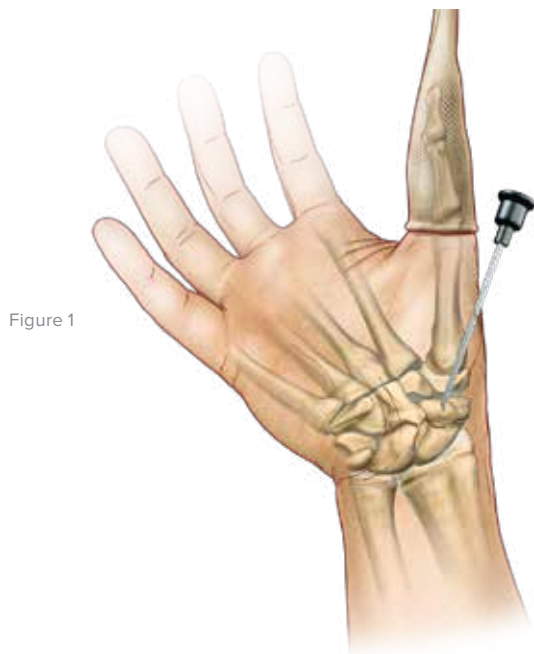


Figure 1

1 Approach and Needle Insertion

The procedure can be carried out using the volar traction approach or using a conventional volar type approach with the arm supine on a hand table. The volar traction approach facilitates reduction of a displaced fracture and permits arthroscopy to ensure accuracy of the reduction. Fluoroscopy is used throughout.

The entry point is then located using a 12 or 14 gauge IV needle introduced on the antero-radial aspect of the wrist just radial to and distal to the scaphoid tuberosity. This serves as a trocar for the selected guide wire (80-1524, 80-1525, WS-1106ST, or WS-1407ST) and is a directional aid to establish a central path along the scaphoid. The needle is then insinuated into the scaphotrapezial joint and tilted into a more vertical position, and the position is checked on the under-image intensifier. By gently levering on the trapezium this maneuver brings the distal pole of the scaphoid more radial and thus ultimately facilitates screw insertion. The entry point should be approximately 1/3 the way across the scaphoid from the tuberosity in the A/P plane and central in the lateral plane.

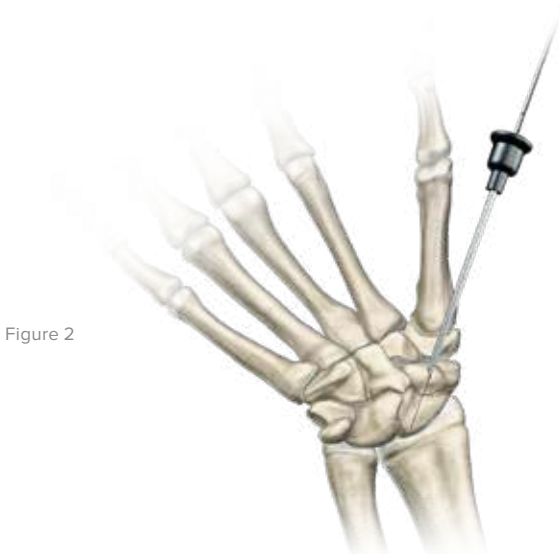


Figure 2

2 Guide Wire Insertion

Pass the guide wire (80-1524, 80-1525, WS-1106ST, or WS-1407ST) through the needle and drill it across the fracture, continually checking the direction on the image intensifier and correcting as necessary, aiming for the radial aspect of the proximal pole. Any adjustments in direction should be made using the needle as a guide rather than attempting to alter the line of the guide wire alone.

Caution: It is extremely important not to bend the guide wire.



.035" x 6" Single
Trocar Guide Wire
(80-1524)



.035" x 6" Double
Trocar Guide Wire
(80-1525)



.045" x 6.0" Single
Trocar Guide Wire
(WS-1106ST)



.054" x 7.0" Single
Trocar Guide Wire
(WS-1407ST)

Volar Scaphoid Technique: Acutrak 2 Micro, Mini, and Standard [continued]

3 Determine Screw Length

Advance the guide wire to stop just short of the articular surface, as the wire should not breach it at this stage. The position, alignment and length are checked once more. Make a simple stab incision at the entry point of the wire, and deepen this down to the distal pole of the scaphoid using a small hemostat and blunt dissection.

Determine the length of the screw either with the appropriate Acutrak 2 Percutaneous Screw Sizer (AT2-SMCZ) or Acutrak 2 Micro Screw Sizer (80-1523) (see chart on page 3) or by advancing a second guide wire of the same length up the distal cortex of the scaphoid and subtracting the difference between the two. When using the volar approach, the correct screw size is 2–4 mm shorter than the measured length so as to ensure that the proximal end of the screw is fully buried below the cartilage and the cortical surface.



Figure 3

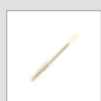
4 Advance Guide Wire

Advance the guide wire through the proximal pole of the scaphoid so as to exit on the dorsal aspect of the wrist. This is a precautionary measure to minimize the risk of inadvertent withdrawal of the wire during the drilling process and screw insertion and to facilitate removal of the proximal portion if the wire were to break. A second de-rotation wire can then be inserted in those cases where it is felt that there is a possibility of rotational instability of the fracture.



Figure 4

Figure 5



Acutrak 2
Percutaneous
Screw Sizer
(AT2-SMCZ)



Acutrak 2 Micro
Screw Sizer
(80-1523)

Volar Scaphoid Technique: Acutrak 2 Micro, Mini, and Standard [continued]



Figure 6

5 Drill

Remove the 12 gauge needle and pass the selected profile drill (AT2-1509, AT2M-1813, or AT2-2515) over the wire using either a power drill or by hand stopping 1–2 mm short of the articular surface. The selected long drill (80-1522, AT2M-L1813, or AT2-L2515) is recommended to mitigate the effects of varying bone density and distraction upon screw insertion.

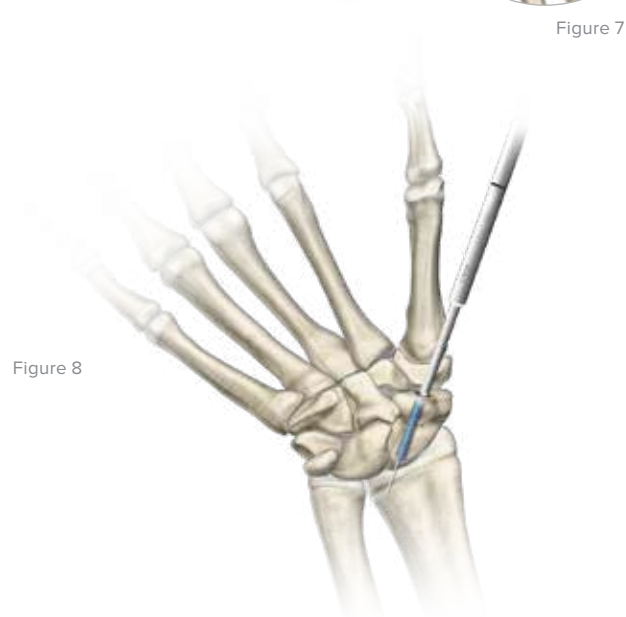


Figure 8

6 Advance Self-Tapping Screw

The self-tapping screw is then advanced over the guide wire and with the appropriate sized cannulated hex driver (HT-0915, HT-1120, or HT-1725), then the wire removed. Compression can then be confirmed radiographically on the image intensifier.



Acutrak 2 Micro
Profile Drill
(AT2-1509)



Acutrak 2 Mini
Profile Drill
(AT2M-1813)



Acutrak 2
Standard
Profile Drill
(AT2-2515)



Acutrak 2 Micro
Extended Long
Drill
(80-1522)



Acutrak 2 Mini
Long Drill
(AT2M-L1813)



Acutrak 2
Standard Long
Drill
(AT2-L2515)



Acutrak 2 Bone
Screw
(AT2-XXX)



1.5 mm
Cannulated Quick
Release Driver Tip
(HT-0915)



2.0 mm
Cannulated Quick
Release Driver Tip
(HT-1120)



2.5 mm
Cannulated Quick
Release Driver Tip
(HT-1725)

Dorsal Scaphoid Technique: Acutrak 2 Micro, Mini, and Standard

1 Approach and Needle Insertion

The entry point in the proximal pole is at the tip of the scaphoid immediately adjacent to the scapholunate ligament. This can be located either using an arthroscopy or mini open dorsal approach between the third and fourth extensor compartments. Having established the entry point, introduce the appropriate guide wire, aiming for the base of the thumb, and check the position on the fluoroscope. Aim to place the leading edge of the guide wire, in the subchondral surface of the distal pole of the scaphoid. Confirm the wire placement and depth under fluoroscopy.

Optional: A 14 gauge IV cannula may be used to determine the entry point and may act as both a guide and soft tissue protector.

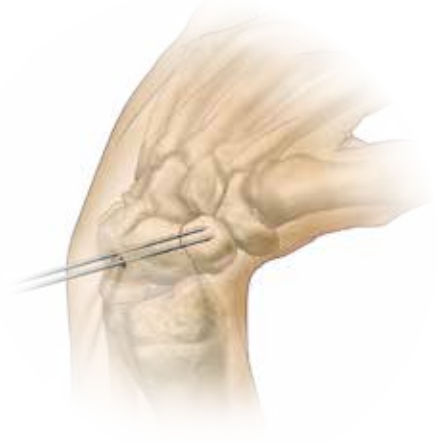


Figure 1

2 Fracture Stabilization

If the fracture is unstable, it may be helpful to place a second parallel guide wire using the parallel wire guides which are available for all three Acutrak 2 Screw families.



Figure 2

3 Determine Screw Length

Measure guide wire length using either the percutaneous screw sizer (80-1523 or AT2-SMCZ) or by placing a second wire at the entry point and subtracting the difference in length. Subtract 2–4 mm from the measured length to ensure that both ends of the screw are buried within the bone.



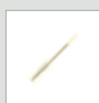
Figure 3



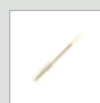
Single Trocar
Guide Wire
(WS-XXXXST)



Parallel Wire
Guide Assembly
(AT2-XXXX)



Micro Acutrak 2
Percutaneous
Screw Sizer
(80-1523)



Acutrak 2
Percutaneous
Screw Sizer
(AT2-SMCZ)

Dorsal Scaphoid Technique: Acutrak 2 Micro, Mini, and Standard [continued]

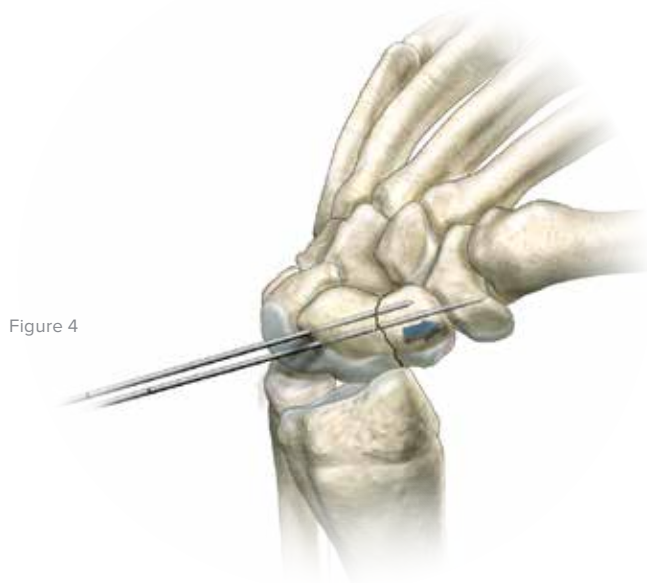


Figure 4

4 Advance Guide Wire

Advance the guide wire (80-1524, WS-1106ST, or WS-14075ST) through the far cortex so that it lies in the subcutaneous tissues. This minimizes the risk of accidental withdrawal of the guide wire while drilling and facilitates wire removal if it should break.



Figure 5

5 Drill Near Cortex

Open the near cortex with the appropriate profile drill (AT2-1509, AT2M-1813, or AT2-2515).



.035" x 6" Single
Trocac Guide Wire
(80-1524)



.045" x 6.0" Single
Trocac Guide Wire
(WS-1106ST)



.054" x 7.0" Single
Trocac Guide Wire
(WS-1407ST)



Acutrak 2 Micro
Profile Drill
(AT2-1509)



Acutrak 2 Mini
Profile Drill
(AT2M-1813)



Acutrak 2
Standard
Profile Drill
(AT2-2515)

Dorsal Scaphoid Technique: Acutrak 2 Micro, Mini, and Standard [continued]

6 Drill Far Fragment

Next, drill into the far fragment with the appropriate long drill (80-1522, AT2M-L1813, or AT2-L2515), ensuring that the long drill is past the fracture site.

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



Figure 6

7 Screw Insertion

Insert the correctly sized screw Micro, Mini, or Standard AT2 with the appropriate cannulated hex driver (HT-0915, HT-1120, or HT-1725). If resistance is met upon insertion or if distraction occurs: Stop, remove the screw, redrill with the long drill and insert the appropriate-length screw. Confirm placement and length of the screw under fluoroscopy, ensuring that both leading and trailing edges of the screw are beneath the articular surfaces. Finally, remove the guide wires.

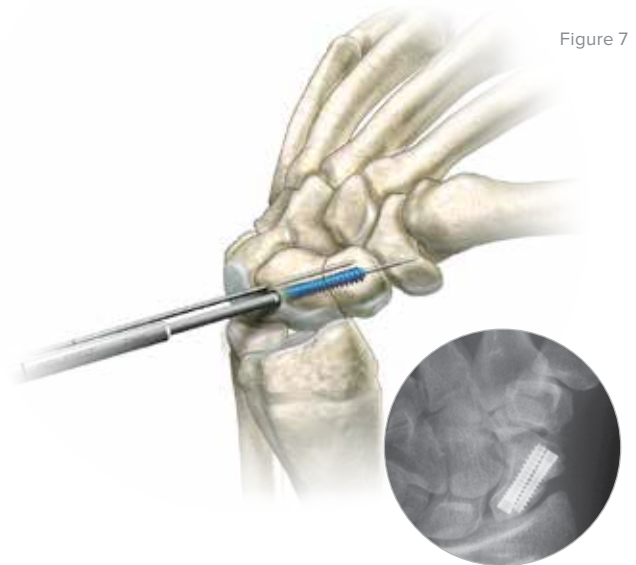


Figure 7

Figure 8



Acutrak 2 Micro
Extended Long
Drill
(80-1522)



Acutrak 2 Mini
Long Drill
(AT2M-L1813)



Acutrak 2
Standard Long
Drill
(AT2-L2515)



Acutrak 2 Bone
Screw
(AT2-XXX)



1.5 mm
Cannulated Quick
Release Driver Tip
(HT-0915)



2.0 mm
Cannulated Quick
Release Driver Tip
(HT-1120)



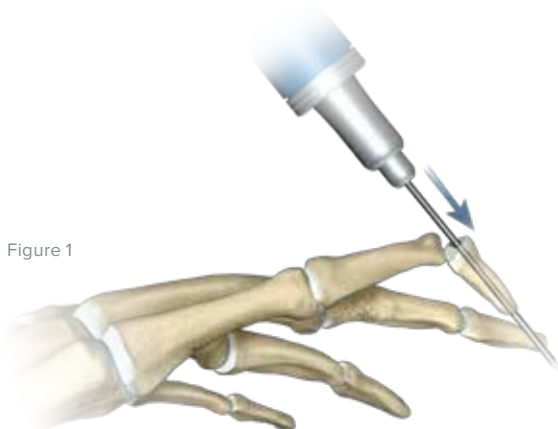
2.5 mm
Cannulated Quick
Release Driver Tip
(HT-1725)

DIP Fusion Technique: Acutrak 2 Micro Extended

1 Advance Double-Ended Trocar Guide Wire

A double-ended .035" x 6" Double Trocar Guide Wire (80-1525) is advanced into the distal phalanx through a transverse incision over the distal interphalangeal joint.

Figure 1



2 Proximal Middle Phalanx Reduction

The joint is then reduced and the .035" x 6" Double Trocar Guide Wire (80-1525) is driven proximally into the middle phalanx.

Figure 2



3 Determine Screw Length

Make a short transverse (fish-mouth) incision in the tip of the distal phalanx and spread using a small (snap) clip. Measure guide wire length using either the percutaneous Acutrak 2 Micro Screw Sizer (80-1523), or by placing a second wire at the entry point and subtracting the difference. If the surgeon intends to drive the screw below the surface of the distal phalanx, this must be accounted for in sizing the screw.

Figure 3

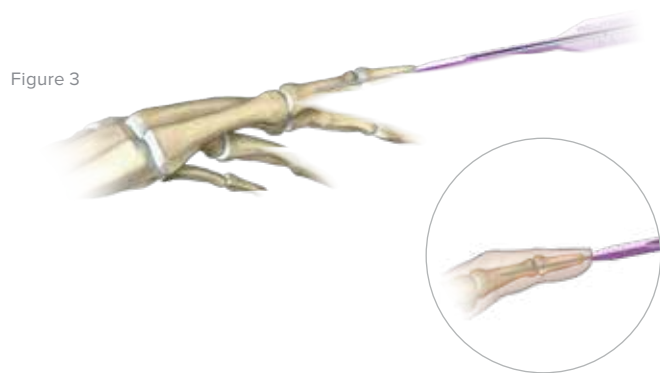


Figure 4



.035" x 6" Double Trocar Guide Wire (80-1525)



Micro Acutrak 2 Screw Sizer (80-1523)

DIP Fusion Technique: Acutrak 2 Micro Extended [continued]

4 Drill

Select the Micro Acutrak 2 Extended Long Drill (80-1522) and place over the wire. Drill using either a power drill or hand reamer across the joint into the middle phalanx to the desired depth. If the surgeon intends to drive the screw below the surface of the distal phalanx, this must be accounted for in the depth of the prepared hole.

Figure 5

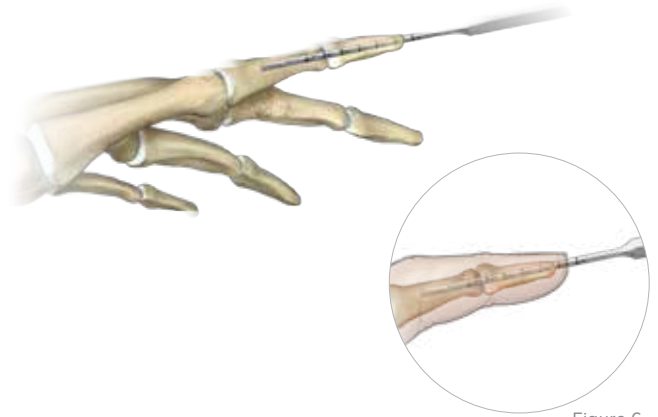


Figure 6

Figure 7

5 Insert Screw

Insert the correctly sized Self Tapping Acutrak 2 Bone Screw (AT2-CXX) with the 1.5 mm Cannulated Hex Driver (HT-0915). If resistance is met upon insertion or if distraction occurs, stop, remove the screw, re-drill with the Micro Acutrak 2 Extended Long Drill (80-1522), and re-insert the screw. Confirm placement and length of the screw on imaging. Finally, remove the guide wire.

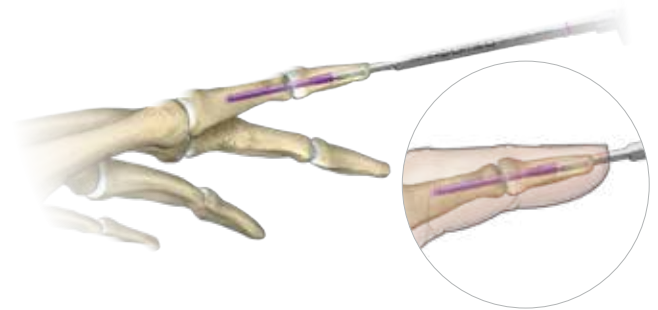


Figure 8

Figure 9



Self Tapping
Acutrak 2
Bone Screw
(AT2-CXX)



1.5 mm
Cannulated Quick
Release Driver Tip
(HT-0915)



Micro Acutrak 2®
Extended Long
Drill
(80-1522)

Jones Fracture Technique: Acutrak 2 4.7 and 5.5 mm

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.

Figure 2



2 Indication Area Outline

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

Jones Fracture Technique: Acutrak 2 4.7 and 5.5 mm [continued]

3 Approach and Exposure

The .062" (1.6 mm) x 9.25" Guide Wire (80-0950) for the Acutrak 2 – 4.7 and 5.5 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 should be 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 .062" (1.6 mm) x 9.25" Guide Wire (80-0950) 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.



Figure 3

4 Measure Depth

Depth is measured from the exposed portion of the guide wire with the Large Acutrak 2 Screw Sizer (80-0996).



Figure 4

5 Advance Guide Wire

After selecting the size, advance the .062" (1.6mm) x 9.25" Guide Wire (80-0950) approximately 5 mm to maintain distal pin fixation before drilling.

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

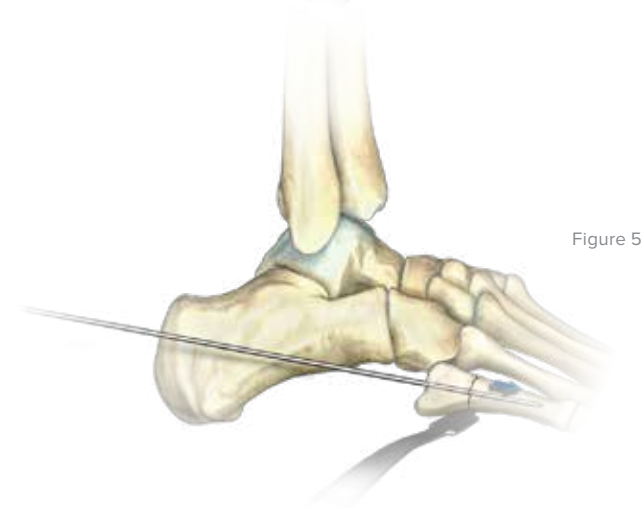


Figure 5



.062" (1.6 mm) x
9.25" Guide Wire
(80-0950)



Large Acutrak 2
Screw Sizer
(80-0996)

Jones Fracture Technique: Acutrak 2 4.7 and 5.5 mm [continued]

Figure 6

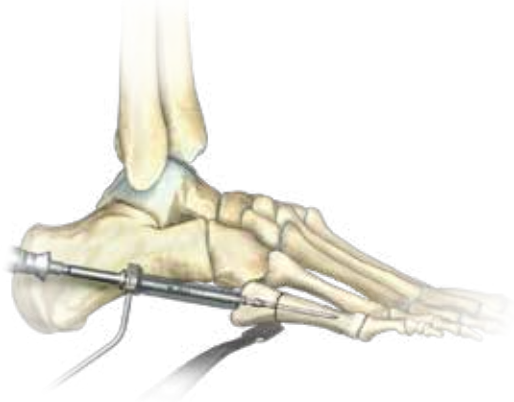
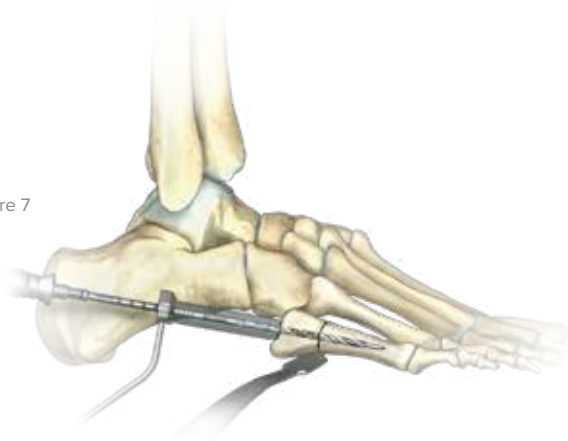


Figure 7



6 Drill the Near Cortex

Place the Large Acutrak 2 Soft Tissue Protector (80-0990) (the guide should be used throughout) over the .062" (1.6 mm) x 9.25" Guide Wire (80-0950) and open the near cortex using the appropriate cannulated Acutrak 2 – 4.7 Profile Drill (80-0945) or Acutrak 2 – 5.5 Profile Drill (80-0955).

7 Drill the Far Fragment

Leaving the Large Acutrak 2 Soft Tissue Protector (80-0990) in place, drill into the far fragment with the appropriate cannulated Acutrak 2 – 4.7 Long Drill (80-0946) or Acutrak 2 – 5.5 Long Drill (80-0956). Reference the markings on the drill to confirm desired depth.

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



Large
Acutrak 2 Soft
Tissue Protector
(80-0990)



.062" (1.6 mm) x
9.25" Guide Wire
(80-0950)



Acutrak 2 – 4.7
Profile Drill
(80-0945)



Acutrak 2 – 5.5
Profile Drill
(80-0955)



Acutrak 2 – 4.7
Long Drill
(80-0946)



Acutrak 2 – 5.5
Long Drill
(80-0956)

Jones Fracture Technique: Acutrak 2 4.7 and 5.5 mm [continued]

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 .062" (1.6 mm) x 9.25" Guide Wire (80-0950) while protecting the soft tissues with the Large Acutrak 2 Soft Tissue Protector (80-0990).



Figure 8

9 Screw Insertion

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



Figure 9

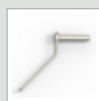
Figure 10



Acutrak 2 Screw
(30-0XXX)



.062" (1.6 mm) x
9.25" Guide Wire
(80-0950)



Large
Acutrak 2 Soft
Tissue Protector
(80-0990)

Calcaneal Osteotomy Technique: Acutrak 2 7.5 mm

Figure 1



1 Patient Positioning

Position the patient at the end of the bed, semi-lateral. Check that the leg can be placed easily onto the mini c-arm prior to preparation of the operative limb.

Figure 2



2 Approach and Exposure

Make an incision posterior to the peroneal tendons, perpendicular to the body of the calcaneus. Place cephalad and caudal mini Hohmann Retractors to protect the neurovascular structures and plantar fascia.

Caution: Take care to preserve the peroneal tendons and the sural nerve.

Figure 3



3 Create Osteotomy

Use an oscillating saw to make the osteotomy cut perpendicular to the body of the calcaneus. The saw is not used to complete the cut through the medial cortex. This is completed with an osteotomy in order to avoid damaging medial neurovascular structures.

Calcaneal Osteotomy Technique: Acutrak 2 7.5 mm [continued]

4 Guide Wire Placement

The body of the calcaneus is displaced medially or laterally and held in place with two .094" (2.4 mm) x 9.25" Guide Wires (80-0970).

The distal portion of the pins are placed at the volar aspect of the angle of Gissane in order to capture solid bone distally and assist with compression of the osteotomy by the screws. Confirm guide pin placement under fluoroscopy.

Note: The Large Acutrak 2 Soft Tissue Protector (80-0990) and 2.4 mm Guide Wire Probe (80-0994) can be used to assist in guide wire placement.

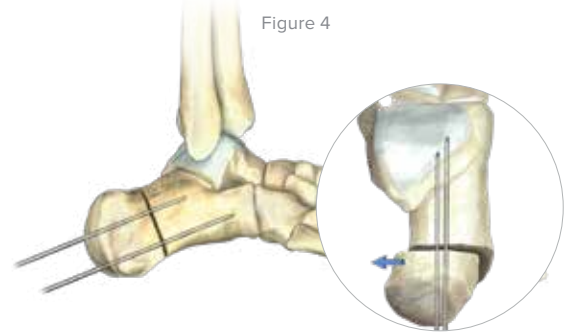


Figure 4

Figure 5

5 Measure Depth

Depth is measured from the exposed portion of the .094" (2.4 mm) x 9.25" guide wire (80-0970) with the Large Acutrak 2 Screw Sizer (80-0996).

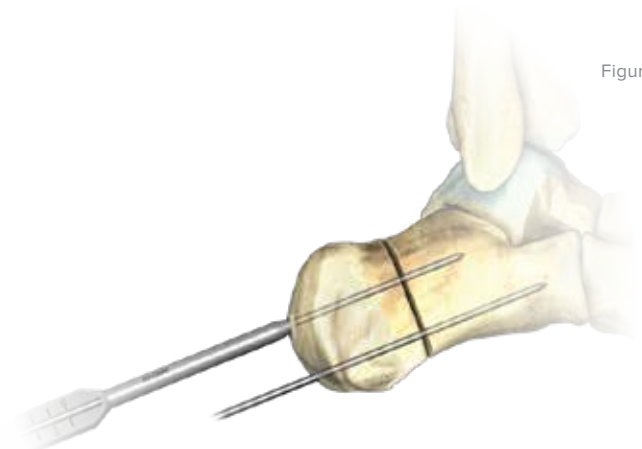


Figure 6

6 Select Screw Size

To account for countersinking and compression, it is common to select a screw one size shorter (5 mm) than the measured depth.

Advance the .094" (2.4 mm) x 9.25" guide wire (80-0970) approximately 5 mm to maintain distal pin fixation before drilling.

Warning: Make sure not to compromise joint surfaces when advancing the .094" (2.4 mm) x 9.25" guide wire (80-0970).



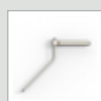
Figure 7



.094" (2.4 mm) x
9.25" Guide Wires
(80-0970)



Large
Acutrak 2 Soft
Tissue Protector
(80-0990)



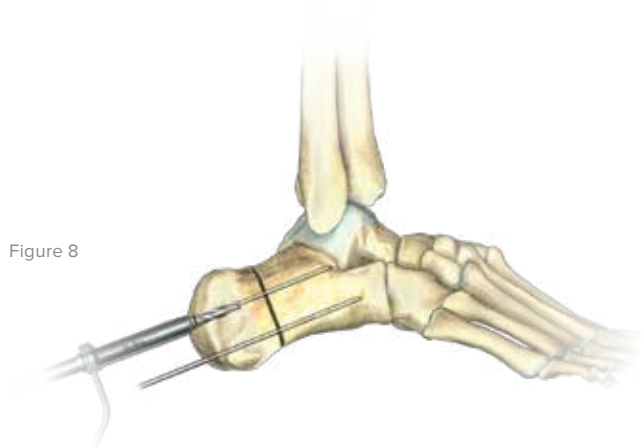
2.4 mm Guide
Wire Probe
(80-0994)



Large Acutrak 2
Screw Sizer
(80-0996)

Calcaneal Osteotomy Technique: Acutrak 2 7.5 mm [continued]

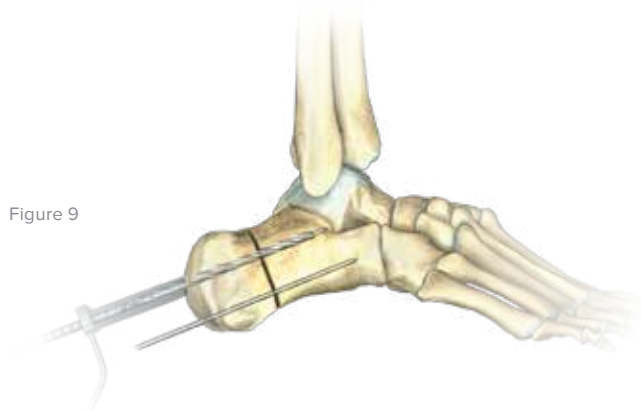
Figure 8



7 Drill the Near Cortex

Place the Large Acutrak 2 Soft Tissue Protector (80-0990) over the .094" (2.4 mm) x 9.25" guide wire (80-0970) and open the near cortex using the Acutrak 2 – 7.5 Profile Drill (80-0975).

Figure 9



8 Drill the Far Fragment

Leaving the Large Acutrak 2 Soft Tissue Protector (80-0990) in place, drill into the far fragment with the Acutrak 2 – 7.5 Long Drill (80-0976). Reference the markings on the drill to confirm desired depth.

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

Note: The Acutrak 2 – 7.5 Long Drill shows depth markings relative to Large Acutrak 2 Soft Tissue Protector.

Caution: The Acutrak 2 – 7.5 Long Drill should be advanced slowly with continuous irrigation to decrease the potential of heat build-up. Clean the drill periodically during each procedure to optimize performance.



Large
Acutrak 2 Soft
Tissue Protector
(80-0990)



.094" (2.4 mm) x
9.25" Guide Wires
(80-0970)



Acutrak 2 –
7.5 Profile Drill
(80-0975)



Acutrak 2 –
7.5 Long Drill
(80-0976)

Calcaneal Osteotomy Technique: Acutrak 2 7.5 mm [continued]

9 Screw Insertion

Insert the correct size Acutrak 2 - 7.5 Screw (30-0XXX) with the 4.0 mm Cannulated Quick Release Hex Driver Tip (80-0978). If resistance is met upon insertion or if distraction occurs: Stop, remove the screw, re-drill with the Acutrak 2 - 7.5 Long Drill (80-0976), and re-insert the screw. Confirm the placement and length of the screw under fluoroscopy, ensuring that both the leading and the trailing threads of the screw are within the bone. Finally, remove the guides wires.

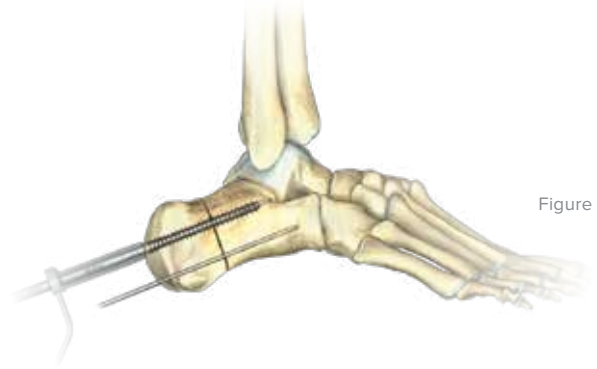


Figure 10

10 Additional Screw Placement

Repeat steps 5–9 for each additional screw placement.

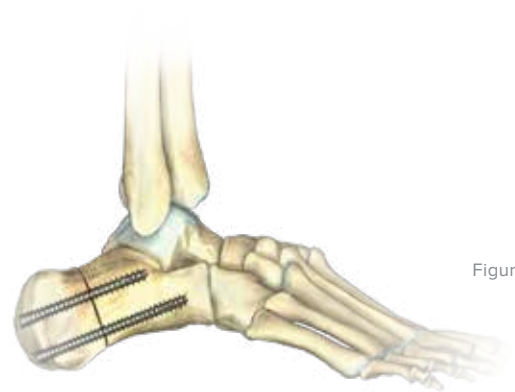


Figure 11



Acutrak 2 Screw
(30-0XXX)



4.0 mm
Cannulated Quick
Release Hex
Driver Tip
(80-0978)



Acutrak 2 –
7.5 Long Drill
(80-0976)

Ordering Information

Acutrak 2 Micro Tray Components

Acutrak 2 Micro Implants*

8 mm Acutrak 2 Micro	AT2-C08	16 mm Acutrak 2 Micro	AT2-C16
9 mm Acutrak 2 Micro	AT2-C09	18 mm Acutrak 2 Micro	AT2-C18
10 mm Acutrak 2 Micro	AT2-C10	20 mm Acutrak 2 Micro	AT2-C20
11 mm Acutrak 2 Micro	AT2-C11	22 mm Acutrak 2 Micro	AT2-C22
12 mm Acutrak 2 Micro	AT2-C12	24 mm Acutrak 2 Micro	AT2-C24
13 mm Acutrak 2 Micro	AT2-C13	26 mm Acutrak 2 Micro	AT2-C26
14 mm Acutrak 2 Micro	AT2-C14	28 mm Acutrak 2 Micro	AT2-C28
15 mm Acutrak 2 Micro	AT2-C15	30 mm Acutrak 2 Micro	AT2-C30

Acutrak 2 Micro Instrumentation

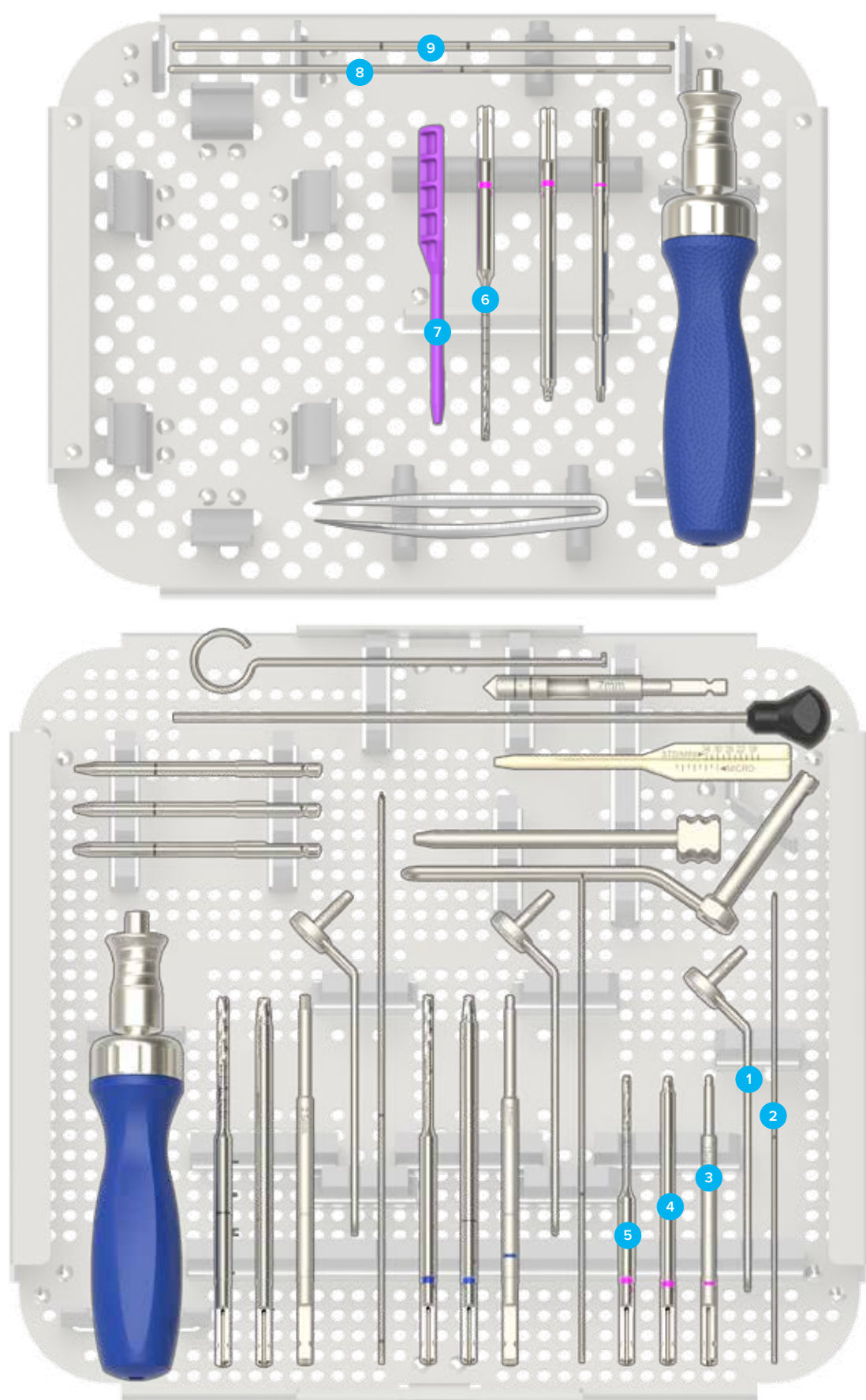
1 Acutrak 2 Micro Parallel Wire Guide Assembly	AT2-3500
2 .035 x 5.75" Single Trocar Guide Wire	WS-0906ST
3 1.5 mm Cannulated Hex Driver	HT-0915
4 Acutrak 2 Micro Profile Drill	AT2-1509
5 Acutrak 2 Micro Long Drill	80-0100
6 Acutrak 2 Micro Extended Long Drill	80-1522
7 Acutrak 2 Micro Screw Sizer	80-1523
8 .035 x 6" Single Trocar Guide Wire	80-1524
9 .035 x 6" Double Trocar Guide Wire	80-1525

Acutrak 2 Micro Extension Tray

Acutrak 2 Micro Extension Caddy	80-1526
Acutrak 2 Micro Extension Platter	80-1527
Acutrak 2 Micro Extension Platter Lid	80-1534

Acutrak 2 Micro X-ray Template

Acutrak 2 Micro X-ray Template	ACT70-02
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Ordering Information [continued]

Acutrak 2 Mini Tray Components

Acutrak 2 Mini Implants*

16 mm Acutrak 2 Mini	AT2-M16
18 mm Acutrak 2 Mini	AT2-M18
20 mm Acutrak 2 Mini	AT2-M20
22 mm Acutrak 2 Mini	AT2-M22
24 mm Acutrak 2 Mini	AT2-M24
26 mm Acutrak 2 Mini	AT2-M26
28 mm Acutrak 2 Mini	AT2-M28
30 mm Acutrak 2 Mini	AT2-M30

Acutrak 2 Mini Instrumentation

1	Acutrak 2 Mini Parallel Wire Guide Assembly	AT2-4500
2	.045 x 6" Single Trocar Guide Wire	WS-1106ST
3	Acutrak 2 Mini Profile Drill	AT2M-1813
4	Acutrak 2 Mini Long Drill	AT2M-L1813
5	2.0 mm Cannulated Hex Driver	HT-1120

Acutrak 2 Mini X-ray Template

Acutrak 2 Mini X-ray Template	ACT70-03
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Acutrak 2 Standard Tray Components

Acutrak 2 Standard Implants*

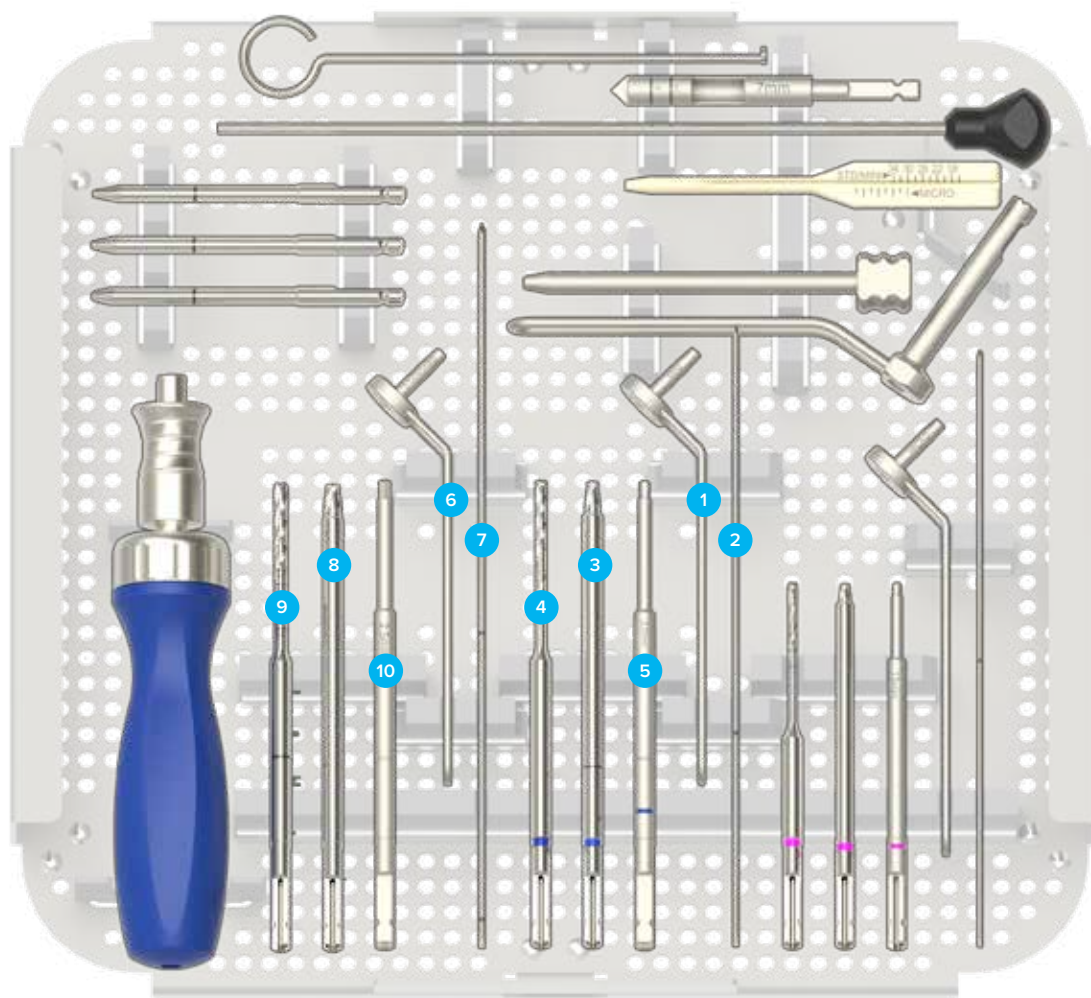
16 mm Acutrak 2 Standard	AT2-S16
18 mm Acutrak 2 Standard	AT2-S18
20 mm Acutrak 2 Standard	AT2-S20
22 mm Acutrak 2 Standard	AT2-S22
24 mm Acutrak 2 Standard	AT2-S24
26 mm Acutrak 2 Standard	AT2-S26
28 mm Acutrak 2 Standard	AT2-S28
30 mm Acutrak 2 Standard	AT2-S30
32 mm Acutrak 2 Standard	AT2-S32
34 mm Acutrak 2 Standard	AT2-S34

Acutrak 2 Standard Instrumentation

6	Acutrak 2 Standard Parallel Wire Guide Assembly	AT2-5400
7	.054 x 7" Single Trocar Guide Wire	WS-1407ST
8	Acutrak 2 Standard Profile Drill	AT2-2515
9	Acutrak 2 Standard Long Drill	AT2-L2515
10	2.5 mm Cannulated Hex Driver	HT-1725

Acutrak 2 Standard X-ray Template

Acutrak 2 Standard X-ray Template	ACT70-01
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Ordering Information [continued]

Tray Components

Universal Acutrak 2 Standard, Mini, and Micro Tray

Universal Acutrak 2 Standard, Mini, and Micro Instrument Base	80-0808	Acutrak 2 Standard Screw Caddy	AT2-055
Universal Acutrak 2 Standard, Mini, and Micro Implant Base	80-0811	Acutrak 2 Mini Screw Caddy	AT2-066
Universal Acutrak 2 Deep Lid	80-0812	Acutrak 2 Micro Screw Caddy	AT2-077

Universal Acutrak 2 Standard, Mini, and Micro Instrumentation

1 Acutrak 2 Percutaneous Screw Sizer (Standard, Mini, Micro)	AT2-SMCZ	5 Medium Ratcheting Driver Handle	80-0663
2 Plunger Assembly	AT-7060	6 6 mm Graft Removal Paddle Assembly	BG-8064
3 Acutrak 2 Short Cannula Assembly	80-0519	7 7 mm Bone Graft Drill Assembly	PL-BG07
4 Acutrak 2 Arthroscopic Probe	AT2-0402		

Acutrak 2 Micro Instrumentation

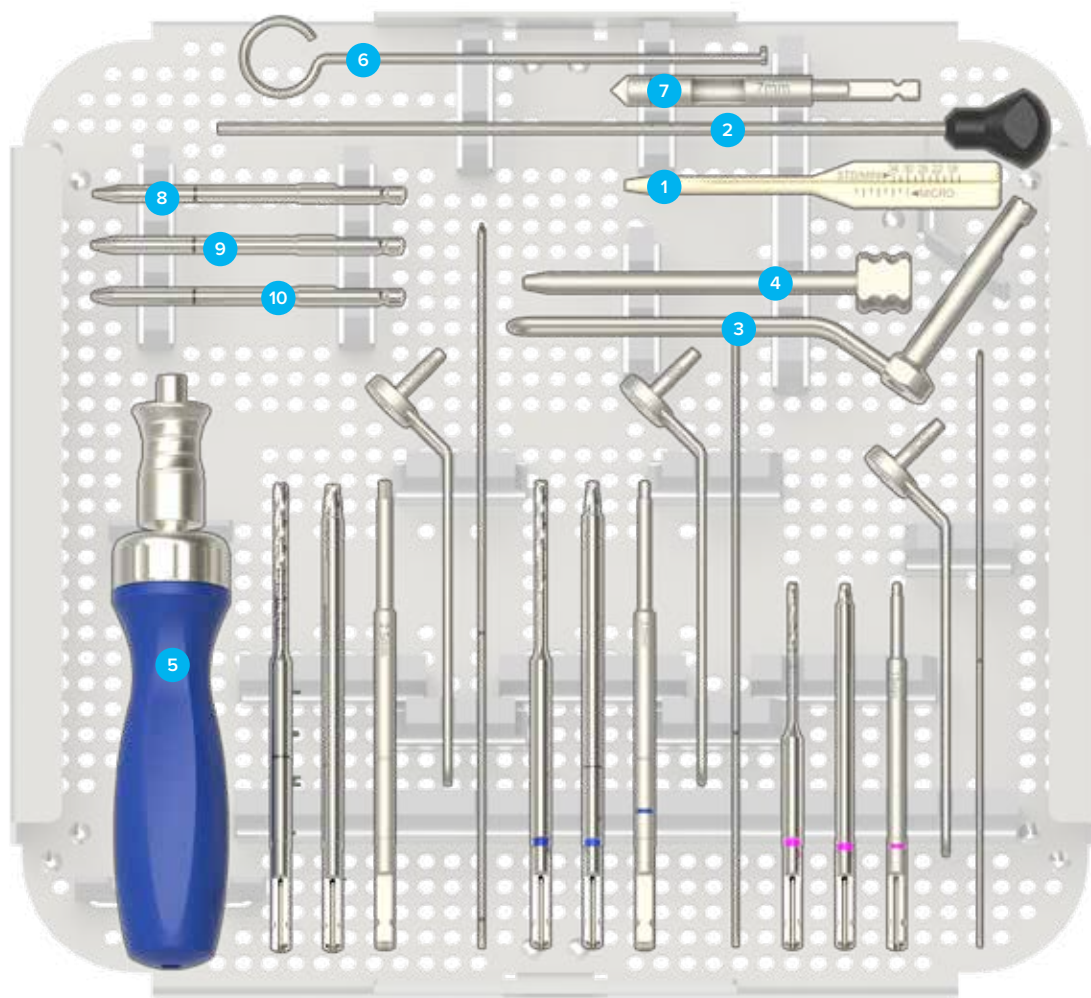
8 1.5 mm Easyout Quick Release	80-0598
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Acutrak 2 Mini Instrumentation

9 2.0 mm Easyout Quick Release	80-0599
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Acutrak 2 Standard Instrumentation

10 2.5 mm Easyout Quick Release	80-0600
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Ordering Information [continued]

Acutrak 2 - 4.7 Tray Components

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

Acutrak 2 - 4.7 Instrumentation

1 Acutrak 2 - 4.7 Profile Drill	80-0945
2 Acutrak 2 - 4.7 Long Drill	80-0946
3 .062 (1.6 mm) x 9.25" Guide Wire	80-0950
4 3.0 mm Cannulated Hex Driver	80-0958
5 3.0 mm Solid Hex Driver	80-0959

Acutrak 2 - 4.7 X-ray Template

Acutrak 2 - 4.7 X-ray Template	90-0034
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Acutrak 2 - 5.5 Tray Components

Acutrak 2 - 5.5 Implants*

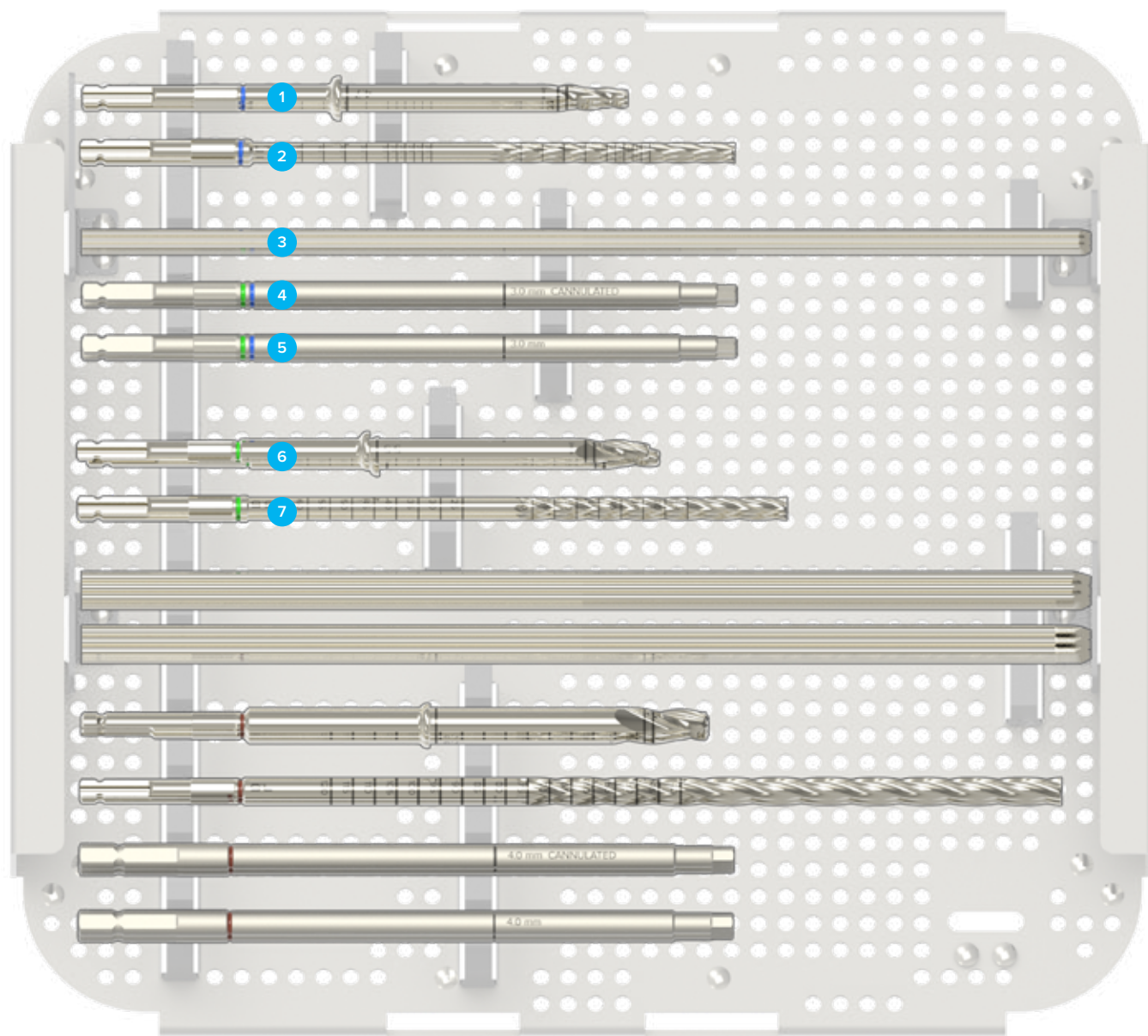
25 mm Acutrak - 5.5 Screw	30-0021
30 mm Acutrak - 5.5 Screw	30-0023
35 mm Acutrak - 5.5 Screw	30-0025
40 mm Acutrak - 5.5 Screw	30-0027
45 mm Acutrak - 5.5 Screw	30-0029
50 mm Acutrak - 5.5 Screw	30-0031
55 mm Acutrak - 5.5 Screw	30-0084
60 mm Acutrak - 5.5 Screw	30-0085

Acutrak 2 - 5.5 Instrumentation

6 Acutrak 2 - 5.5 Profile Drill	80-0955
7 Acutrak 2 - 5.5 Long Drill	80-0956
3 .062 (1.6 mm) x 9.25" Guide Wire	80-0950
4 3.0 mm Cannulated Hex Driver	80-0958
5 3.0 mm Solid Hex Driver	80-0959

Acutrak 2 - 5.5 X-ray Template

Acutrak 2 - 5.5 X-ray Template	90-0017
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Ordering Information [continued]

Tray Components

Acutrak 2 - 7.5 Implants*

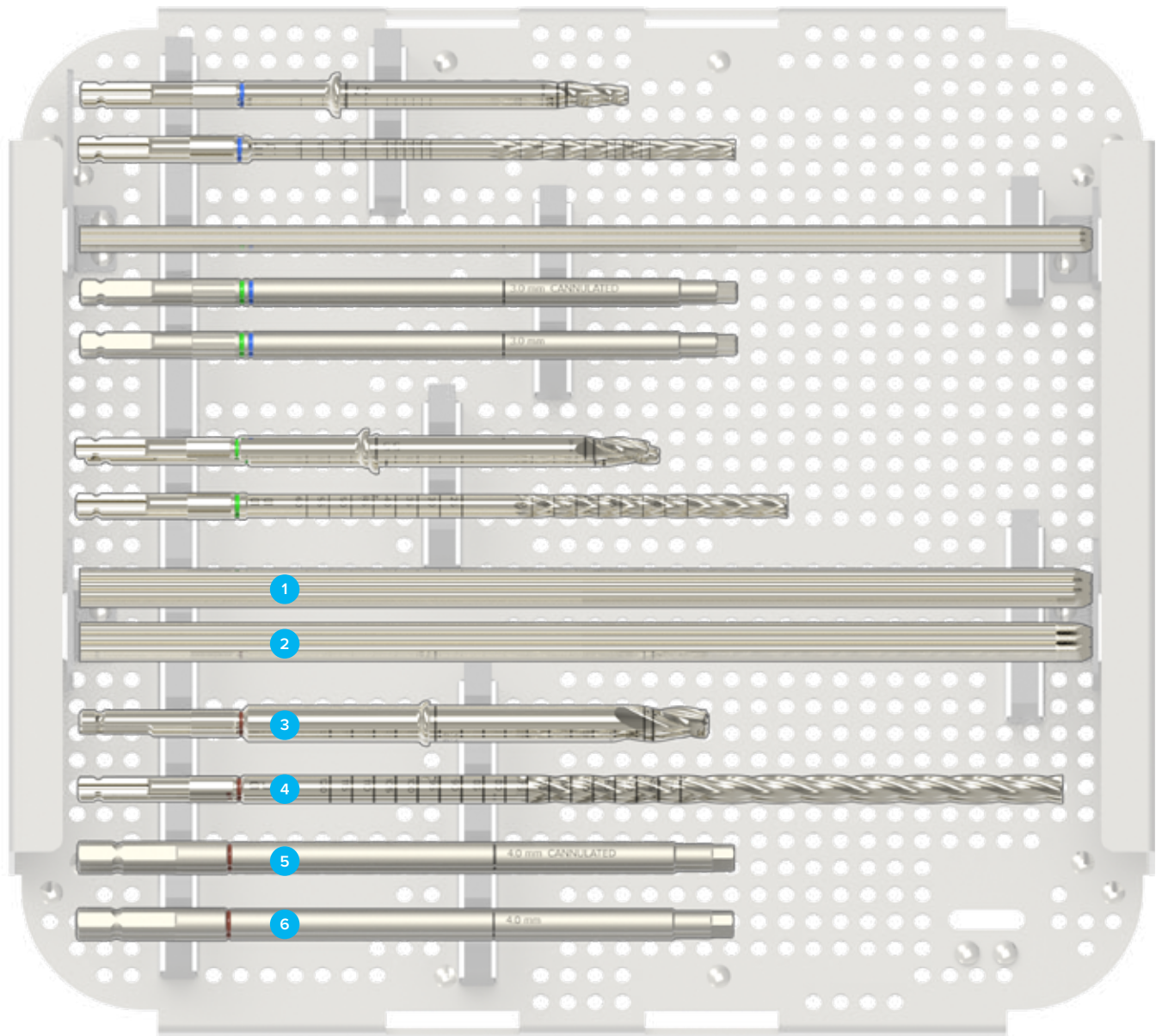
40 mm Acutrak 2 - 7.5 Screw	30-0740	85 mm Acutrak 2 - 7.5 Screw	30-0785
45 mm Acutrak 2 - 7.5 Screw	30-0745	90 mm Acutrak 2 - 7.5 Screw	30-0790
50 mm Acutrak 2 - 7.5 Screw	30-0750	95 mm Acutrak 2 - 7.5 Screw	30-0795
55 mm Acutrak 2 - 7.5 Screw	30-0755	100 mm Acutrak 2 - 7.5 Screw	30-0800
60 mm Acutrak 2 - 7.5 Screw	30-0760	105 mm Acutrak 2 - 7.5 Screw	30-0805
65 mm Acutrak 2 - 7.5 Screw	30-0765	110 mm Acutrak 2 - 7.5 Screw	30-0810
70 mm Acutrak 2 - 7.5 Screw	30-0770	115 mm Acutrak 2 - 7.5 Screw	30-0815
75 mm Acutrak 2 - 7.5 Screw	30-0775	120 mm Acutrak 2 - 7.5 Screw	30-0820
80 mm Acutrak 2 - 7.5 Screw	30-0780		

Acutrak 2 - 7.5 Instrumentation

1 .094 (2.4 mm) x 9.25" Guide Wire	80-0970
2 .094 (2.4 mm) x 9.25" Threaded Guide Wire	80-0971
3 Acutrak 2 - 7.5 Profile Drill	80-0975
4 Acutrak 2 - 7.5 Long Drill	80-0976
5 4.0 mm Cannulated Hex Driver	80-0978
6 4.0 mm Solid Hex Driver	80-0979

Acutrak 2 - 7.5 X-ray Template

Acutrak 2 - 7.5 X-ray Template	90-0035
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Ordering Information [continued]

Tray Components

Universal Acutrak 2 - 4.7, 5.5, and 7.5 Instrumentation

1	Small Ratchet Handle A/O Quick Release	80-0398	5	Sharp Hook	PL-CL06
2	Large Acutrak 2 Soft Tissue Protector	80-0990	6	Plunger Assembly	AT-7060
3	Large Acutrak 2 Screw Sizer	80-0996	7	Forceps	AT-7005
4	Ratcheting T-Handle A/O & Tri-Lobe Quick Release	80-0999			

Universal Acutrak 2 - 4.7, 5.5, and 7.5 Tray

Large Acutrak 2 Drills and Driver Platter	80-0870	Large Acutrak 2 - 4.7 Screw Caddy	80-0878
Large Acutrak 2 Common Instrument Platter	80-0871	Large Acutrak 2 - 5.5 Screw Caddy	80-0880
Large Acutrak 2 - 4.7 and 5.5 Screw Platter	80-0876	Large Acutrak 2 - 7.5 Screw Caddy	80-0882
Large Acutrak 2 - 7.5 Screw Platter	80-0877	Large Acutrak 2 - 7.5 Screws Caddy Lid	80-0883
Large Acutrak 2 Screw 2 x 2 Base	80-0884	Large Acutrak 2 - 5.5 Screws Caddy Lid	80-0881
Large Acutrak 2 Screw Lid	80-0885	Large Acutrak 2 - 4.7 Screws Caddy Lid	80-0879

Acutrak 2 - 4.7 and 5.5 Instrumentation

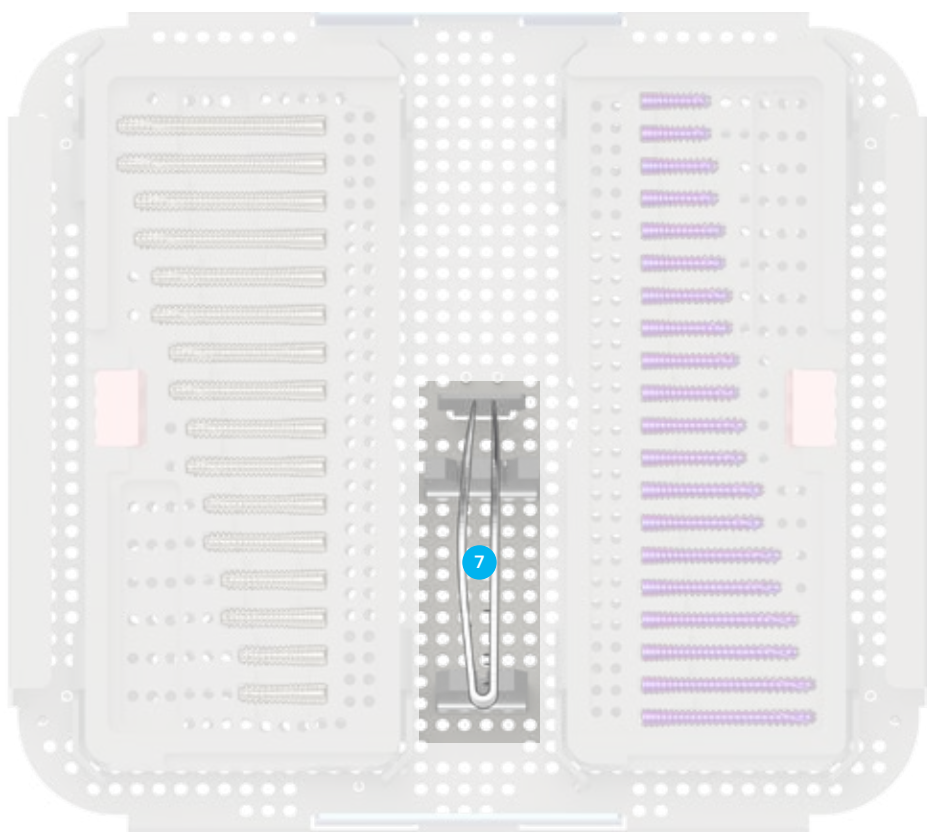
8	3.0 mm Easyout Quick Release	80-0601
9	1.6 mm Guide Wire Probe	80-0992

Acutrak 2 - 7.5 Instrumentation

10	4.0 mm Easyout Quick Release	80-0603
11	2.4 mm Guide Wire Probe	80-0994

*Implants are also available sterile-packed. Add an “-S” at end of product number for sterile product. For more details on sterile products, including pricing, contact our Business Services Department toll free at 888.627.9957.

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