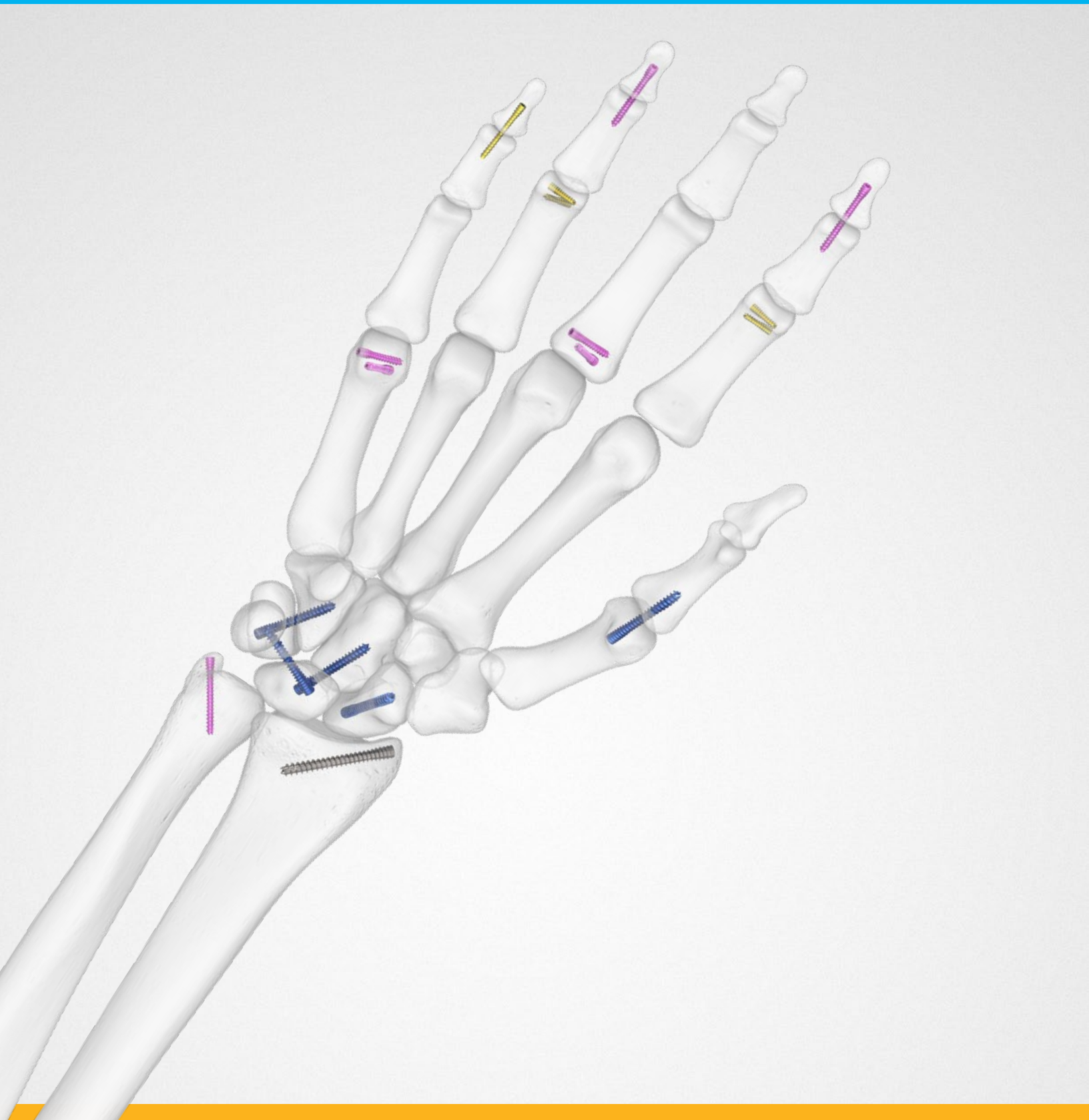
acumed®

Acutrak® 3 Headless Compression Screw System

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® 3 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. Acutrak 3 is the next generation in fully threaded headless fixation, offering a new 2.0 mm diameter Nano screw and extensions to the existing lengths of the Micro, Mini, and Standard screws, allowing expansion of treatment options for the many indications historically treated with the Acutrak 2 System. Long-term surgeon feedback has helped develop this continuously variable fully threaded headless implant with instrumentation designed to simplify the surgical technique.

The Acutrak 3 family is composed of 93 unique screw size options to fit a wide variety of applications throughout the body.

	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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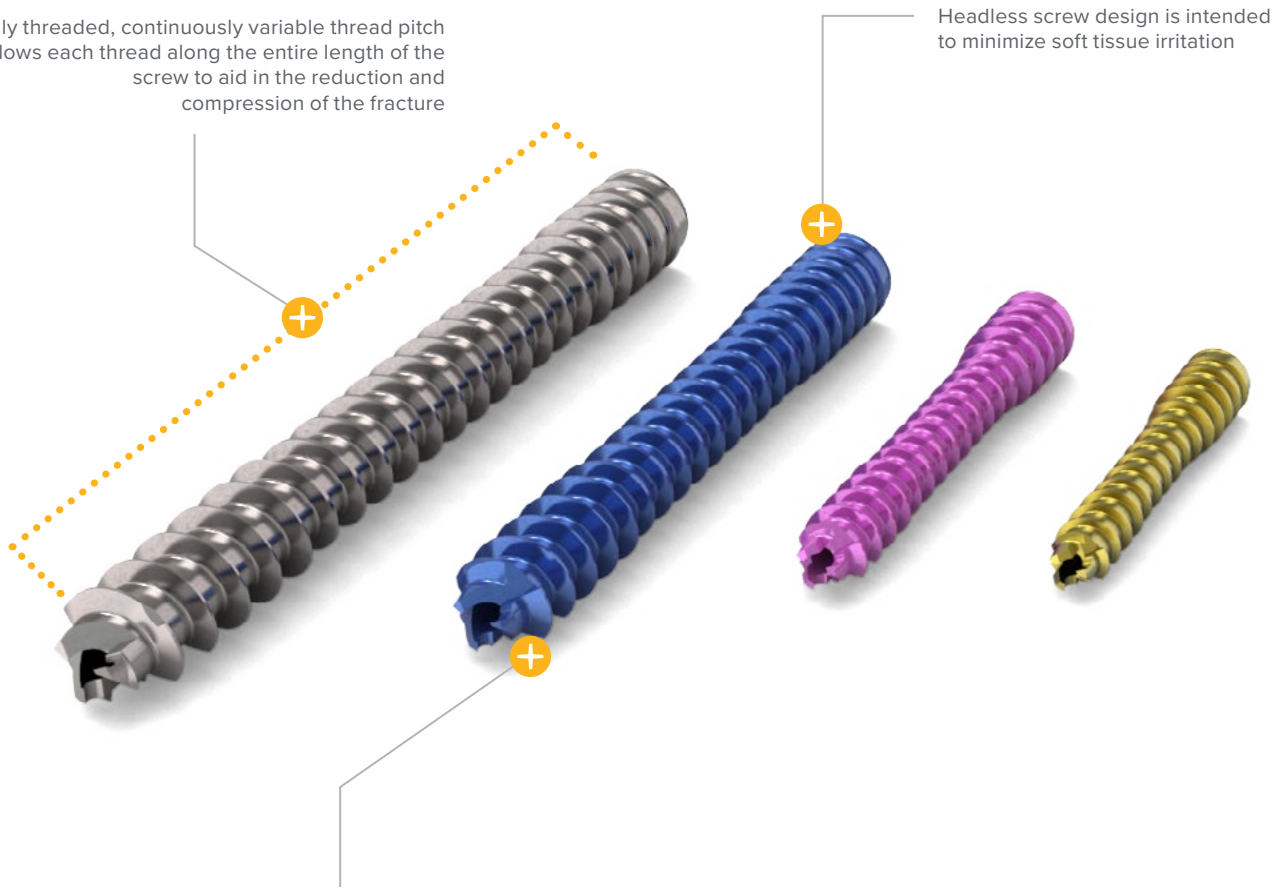
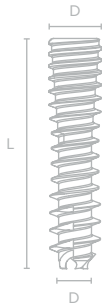
System Features



System Features [continued]



Screw	2.0 Nano	2.5 Micro	3.5 Mini	4.0 Standard
Diameter	Tip: 2.0 mm Tail: 2.4 mm	Tip: 2.5 mm Tail: 3.0 mm	Tip: 3.5 mm Tail: 3.6 mm	Tip: 4.0 mm Tail: 4.1 mm
Length	1 mm increments 8–14 mm 2 mm increments 14–40 mm	1 mm increments 8–14 mm 2 mm increments 14–50 mm	2 mm increments 12–60 mm	2 mm increments 16–60 mm
Guide Wire	Ø0.7 x 150 mm Guide Wire, Single Trocar (35-0025) Ø0.7 x 150 mm Guide Wire, Double Trocar (35-0026)	Ø0.9 x 150 mm Guide Wire, Single Trocar (35-0027) Ø0.9 x 150 mm Guide Wire, Double Trocar (35-0028)	Ø1.1 x 150 mm Guide Wire, Single Trocar (35-0029) Ø1.1 x 150 mm Guide Wire, Double Trocar (35-0030)	Ø1.1 x 150 mm Guide Wire, Single Trocar (35-0029) Ø1.1 x 150 mm Guide Wire, Double Trocar (35-0030)
Profile Drill	Acutrak 3 Nano Profile Drill (80-4134)	Acutrak 3 Micro Profile Drill (80-4137)	Acutrak 3 Mini Profile Drill (80-4140)	Acutrak 3 Standard Profile Drill (80-4145)
Drill	Acutrak 3 Nano Drill (80-4136) Diameter: .064”, 1.625 mm	Acutrak 3 Micro Drill (80-4139) Diamter: .070”, 1.78 mm	Acutrak 3 Mini Drill (80-4142) Diamter: .099”, 2.52 mm	Acutrak 3 Standard Drill (80-4147) Diamter: .119”, 3.02 mm
Dense Bone Drill	N/A	N/A	Acutrak 3 Mini Dense Bone Drill (80-4143)	Acutrak 3 Standard Dense Bone Drill (80-4148)
Drill Guide	Acutrak 3 Nano/Micro Wire/Drill Guide (80-4122)	Acutrak 3 Nano/Micro Wire/Drill Guide (80-4122)	Acutrak 3 Mini/Standard Wire/Drill Guide (80-4118)	Acutrak 3 Mini/Standard Wire/Drill Guide (80-4118)

Dorsal Scaphoid Technique: Acutrak 3 Nano, Micro, Mini, and Standard

Figure 1

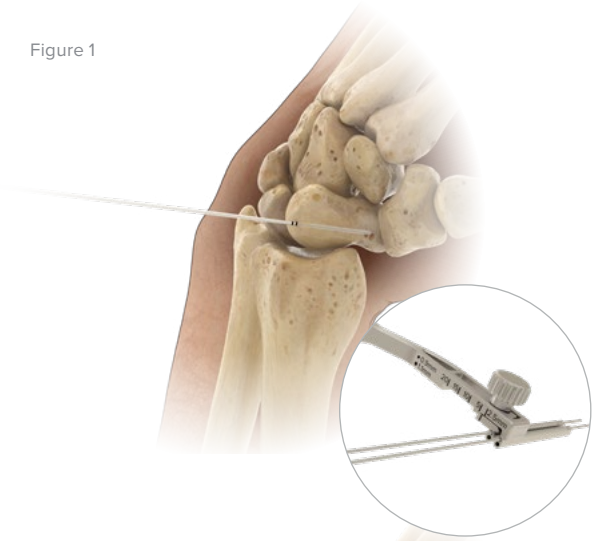


Figure 2

Figure 3

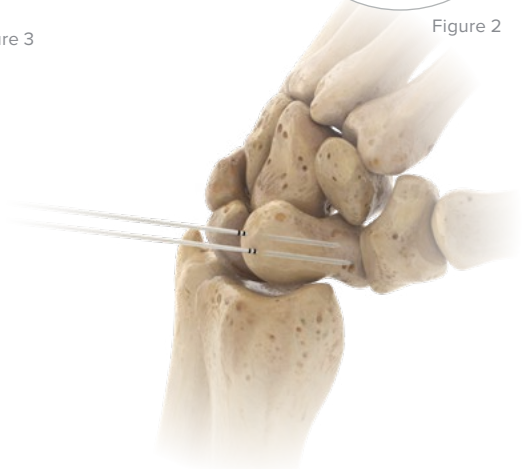


Figure 4

Figure 5

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 arthroscopic or mini open dorsal approach between the third and fourth extensor compartments. Introduce the appropriate guide wire (35-0025, 35-0027, 35-0029) at the entry point and aim for the base of the thumb so that the leading end of the guide wire is placed in the subchondral surface of the distal pole of the scaphoid. Confirm placement and depth under fluoroscopy.

Optional: Acutrak 3 Wire/Drill Guide (80-4122 or 80-4118) may be used to determine the entry point and may act as both a guide and soft tissue protector.

OR Tip: For unstable fractures, it may be helpful to place a second parallel guide wire using the Acutrak 3 Parallel Wire Guide (80-4126)

Note: For distal scaphoid fractures, a volar approach may be more appropriate.

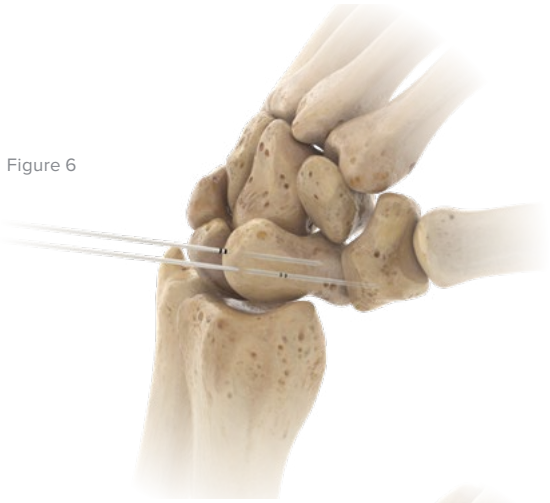
Note: Guide wires marked with bands to aid in identifying diameter: 1 for Ø0.7 mm, 2 for Ø0.9 mm and 3 for Ø1.1 mm.

2 Determine Screw Length

Determine screw length using the Acutrak 3 Screw Sizer 4–64 mm (80-4164). Slide the sizer over the guide wire and down to the bone surface, reading the length off deployed piston or by placing a second wire at the entry point and subtracting the difference in length. It may be appropriate to subtract 2–4 mm from the measurement to ensure that the proximal end of the screw is fully buried below the cartilage and the cortical surface.

Dorsal Scaphoid Technique: Acutrak 3 Nano, Micro, Mini, and Standard [continued]

Figure 6



3 Advance Guide Wire

Advance the guide wire (35-0025, 35-0027, or 35-0029) 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 7

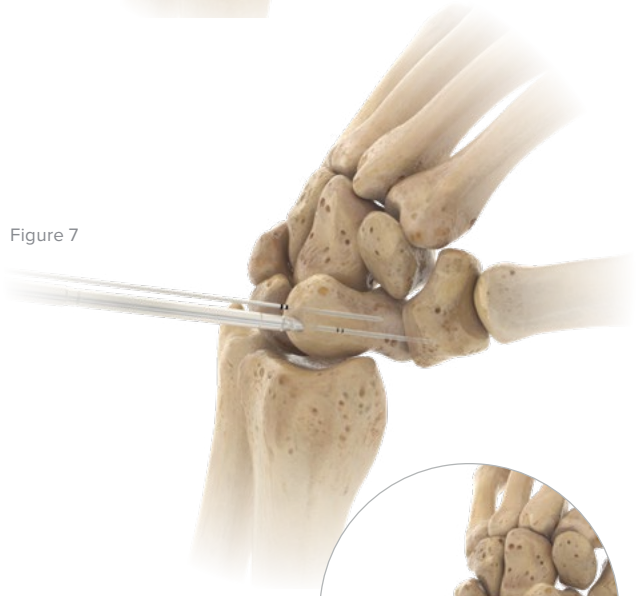


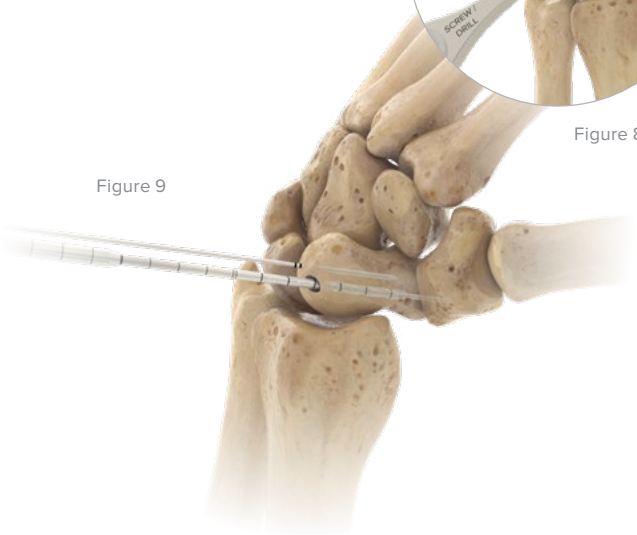
Figure 8

4 Drill

Drill into the proximal cortex with the appropriate profile drill (80-4134, 80-4137, 80-4140, 81-4145) over the wire using either a power drill or by hand.

Next, drill into the distal fragment with the appropriate drill (80-4136, 80-4139, 80-4142, 80-4147) and ensure that the drill is past the fracture site. Dense Bone Drills (80-4143 or 80-4148) can be utilized if dense bone is encountered. Dense bone drills can be utilized only for Standard and Mini screw families.

Figure 9



Optional: Acutrak 3 Wire/Drill Guide (80-4122 or 80-4118) may be used to act as both a guide and soft tissue protector.

OR Tip: The Acutrak 3 profile drill is recommended to mitigate the effects of varying bone density.

Note: Dense Bone Drills identifiable by golden color.

Dorsal Scaphoid Technique: Acutrak 3 Nano, Micro, Mini, and Standard [continued]

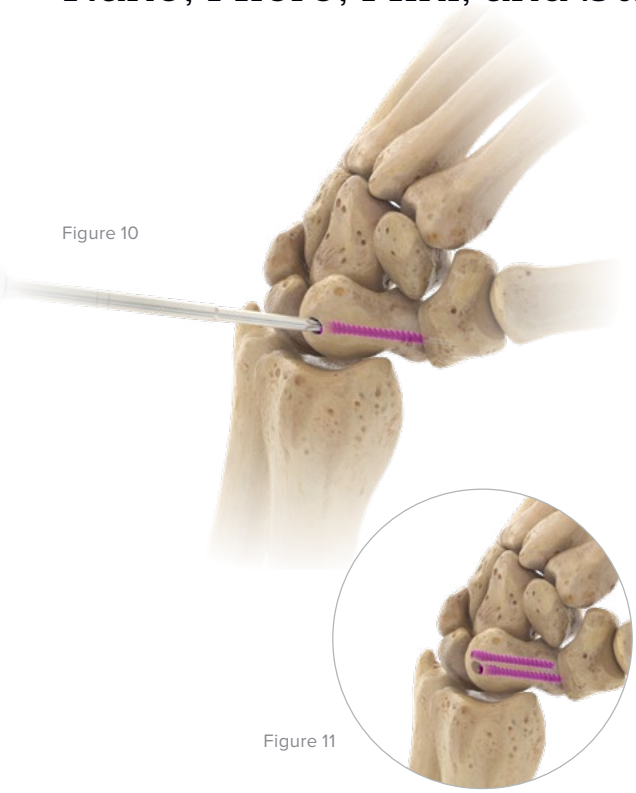


Figure 10

Figure 11

5 Screw Insertion

Insert the correctly sized Nano, Micro, Mini, or Standard Acutrak 3 Bone Screw (3050-200XX, 3051-250XX, 3052-350XX, or 3053-400XX) with the appropriate cannulated hexalobe driver (80-41XX). Confirm placement and length of the screw using fluoroscopy, ensuring that both leading and trailing ends of the screw are beneath the articular surfaces. Repeat steps 2 through 5 to implant the second screw. Finally, remove the guide wires.

OR Tip: If resistance or distraction occurs upon screw insertion: Stop, remove the screw, re-drill with the appropriate drill, and insert the appropriate screw length.

Note: Driver tips have two colored marking bands.

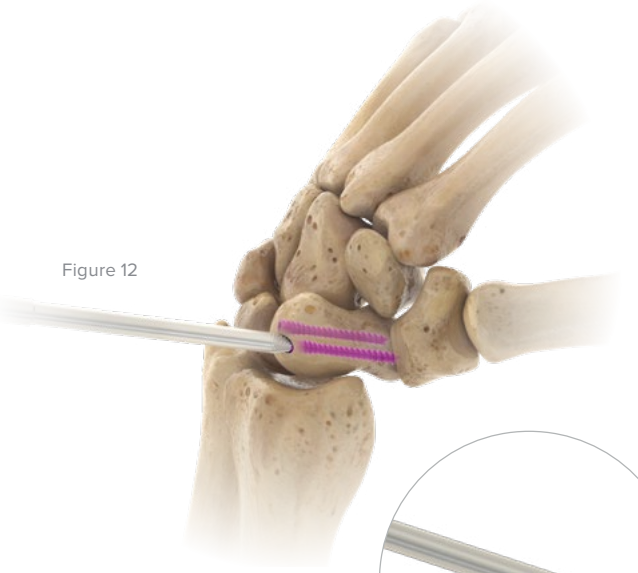


Figure 12

Figure 13

6 Screw Removal

In the event screw removal is necessary, identify the entry point angle as accurately as possible under fluoroscopy. Upon identification, make a small stab incision to clear any tissue and bone overlying the implant. Introduce the appropriate guide wire (35-0025, 35-0027, 35-0029) at the entry point and aim for the cannulated portion of the screw.

OR Tip: Easyout tools (80-0598, 80-0599, 80-0600) are available for removal in the event of a stripped hexalobe drive interface.

DIP Fusion Technique: Acutrak 3 Nano or Micro

Figure 1

1 Advance Double-Ended Trocar Guide Wire

Prepare the bones in a manner typical for fusion that allows for good apposition at the desired angle. A double-ended Double Trocar Guide Wire (35-0026 or 35-0028) is advanced into the distal phalanx through a transverse incision over the distal interphalangeal joint.

Note: Guide wires marked with bands to aid in identifying diameter: 1 for Ø0.7 mm, 2 for Ø0.9 mm and 3 for Ø1.1 mm.

Figure 2

2 Distal / Middle Phalanx Reduction

The joint is then reduced and the Double Trocar Guide Wire (35-0026 or 35-0028) is driven proximally into the middle phalanx.

DIP Fusion Technique: Acutrak 3 Nano or Micro [continued]

Figure 3

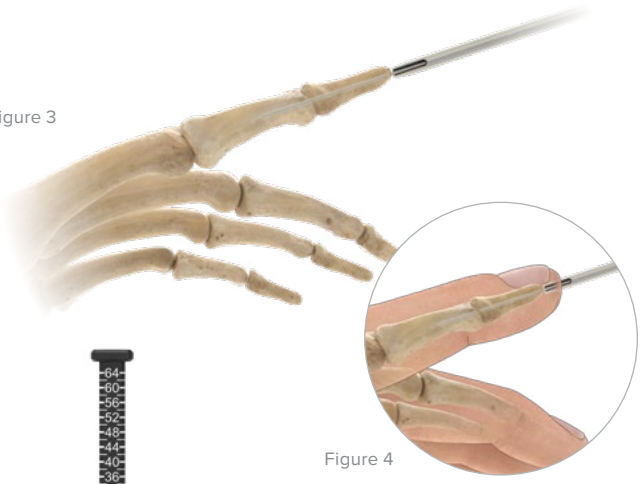


Figure 4

Figure 5

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 length using either the percutaneous Acutrak 3 Screw Sizer, 4–64 mm (80-4164), or by placing a second wire at the bone surface 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 6

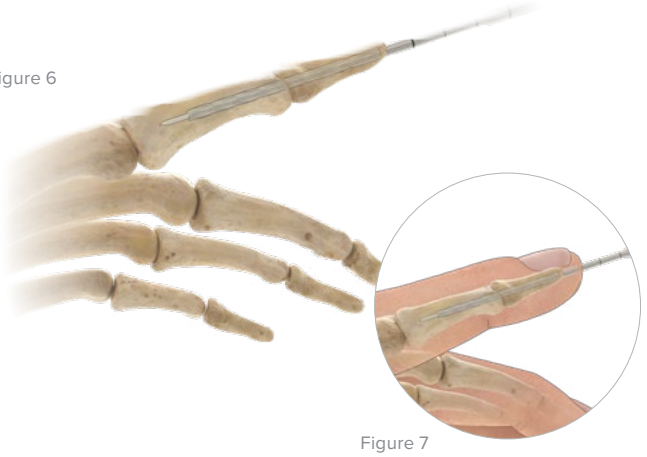


Figure 7

4 Drill

Advance the guide wire (35-0025, 35-0027) 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. Select the Nano or Micro Acutrak 3 Drill (80-4136 or 80-4139) and place over the wire. Drill using either a power drill or by hand 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.

DIP Fusion Technique: Acutrak 3 Nano or Micro [continued]

Figure 8

Figure 9

5 Screw Insertion

Insert the correctly sized Nano or Micro Acutrak 3 Bone Screw (3050-200XX or 3051-250XX) with the T6 or T7 Cannulated Hexalobe Driver Tip (80-4149/80-4153 or 80-4150/80-4154). Confirm placement under fluoroscopy. Finally, remove the guide wire.

OR Tip: If resistance or distraction occurs upon screw insertion: Stop, remove the screw, redrill with the appropriate drill, and reinsert the screw.

Note: Driver tips have two colored marking bands.

Figure 10

Figure 11

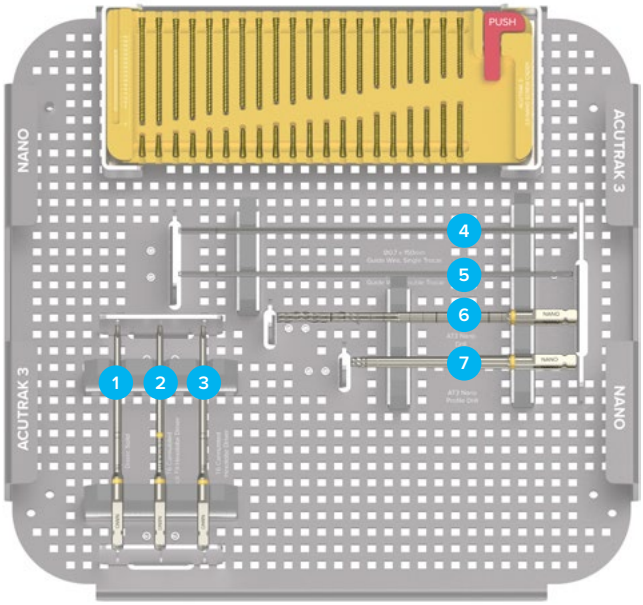
Figure 12

6 Screw Removal

In the event screw removal is necessary, identify the entry point angle as accurately as possible under fluoroscopy. Upon identification, make a small stab incision to clear any tissue and bone overlying the implant. Introduce the appropriate guide wire (35-0025, 35-0027, 35-0029) at the entry point and aim for the cannulated portion of the screw.

OR Tip: Easyout tools (80-0598, 80-0599) are available for removal in the event of a stripped hexalobe drive interface.

Ordering Information



Acutrak 3 Nano Tray Components

Nano Acutrak 3 Instrumentation

1	T6 Hexalobe Driver, Solid	80-4157
2	T6 Cannulated Stick Fit Hexalobe Driver	80-4153
3	T6 Cannulated Hexalobe Driver	80-4149
4	Ø0.7 x 150 mm Guide Wire, Single Trocar	35-0025
5	Ø0.7 x 150 mm Guide Wire, Double Trocar	35-0026
6	Acutrak 3 Nano Drill	80-4136
7	Acutrak 3 Nano Profile Drill	80-4134

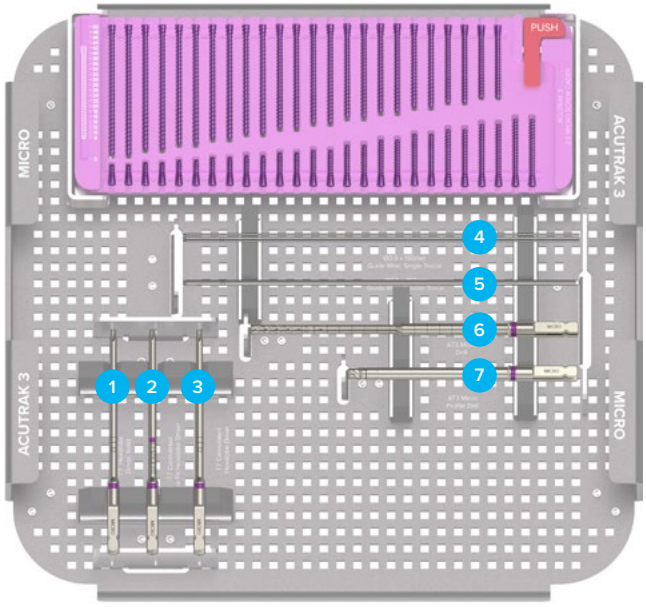
Acutrak 3 Nano Tray Components

Nano Acutrak 3 Implants*

8 mm, 2.0 Nano Acutrak 3 Bone Screw	3050-20008	22 mm, 2.0 Nano Acutrak 3 Bone Screw	3050-20022
9 mm, 2.0 Nano Acutrak 3 Bone Screw	3050-20009	24 mm, 2.0 Nano Acutrak 3 Bone Screw	3050-20024
10 mm, 2.0 Nano Acutrak 3 Bone Screw	3050-20010	26 mm, 2.0 Nano Acutrak 3 Bone Screw	3050-20026
11 mm, 2.0 Nano Acutrak 3 Bone Screw	3050-20011	28 mm, 2.0 Nano Acutrak 3 Bone Screw	3050-20028
12 mm, 2.0 Nano Acutrak 3 Bone Screw	3050-20012	30 mm, 2.0 Nano Acutrak 3 Bone Screw	3050-20030
13 mm, 2.0 Nano Acutrak 3 Bone Screw	3050-20013	32 mm, 2.0 Nano Acutrak 3 Bone Screw	3050-20032
14 mm, 2.0 Nano Acutrak 3 Bone Screw	3050-20014	34 mm, 2.0 Nano Acutrak 3 Bone Screw	3050-20034
16 mm, 2.0 Nano Acutrak 3 Bone Screw	3050-20016	36 mm, 2.0 Nano Acutrak 3 Bone Screw	3050-20036
18 mm, 2.0 Nano Acutrak 3 Bone Screw	3050-20018	38 mm, 2.0 Nano Acutrak 3 Bone Screw	3050-20038
20 mm, 2.0 Nano Acutrak 3 Bone Screw	3050-20020	40 mm, 2.0 Nano Acutrak 3 Bone Screw	3050-20040

*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.

Ordering Information [continued]



Acutrak 3 Micro Tray Components

Micro Acutrak 3 Instrumentation

1	T7 Hexalobe Driver, Solid	80-4158
2	T7 Cannulated Stick Fit Hexalobe Driver	80-4154
3	T7 Cannulated Hexalobe Driver	80-4150
4	Ø0.9 x 150 mm Guide Wire, Single Trocar	35-0027
5	Ø0.9 x 150 mm Guide Wire, Double Trocar	35-0028
6	Acutrak 3 Micro Drill	80-4139
7	Acutrak 3 Micro Profile Drill	80-4137

Acutrak 3 Micro Tray Components

Micro Acutrak 3 Implants*

8 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25008	28 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25028
9 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25009	30 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25030
10 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25010	32 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25032
11 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25011	34 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25034
12 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25012	36 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25036
13 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25013	38 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25038
14 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25014	40 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25040
16 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25016	42 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25042
18 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25018	44 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25044
20 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25020	46 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25046
22 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25022	48 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25048
24 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25024	50 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25050
26 mm, 2.5 Micro Acutrak 3 Bone Screw	3051-25026		

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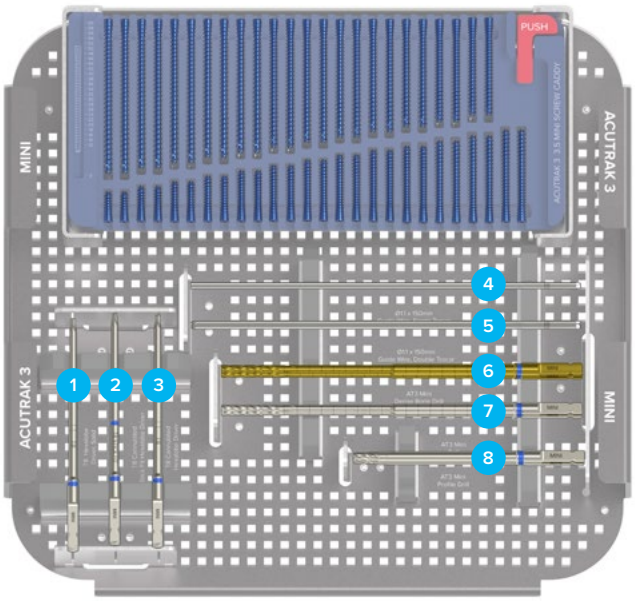

Acutrak 3 Mini Tray Components

Mini Acutrak 3 Instrumentation

1	T8 Hexalobe Driver, Solid	80-4159
2	T8 Cannulated Stick Fit Hexalobe Driver	80-4155
3	T8 Cannulated Hexalobe Driver	80-4151
4	Ø1.1 x 150 mm Guide Wire, Single Trocar	35-0029
5	Ø1.1 x 150 mm Guide Wire, Double Trocar	35-0030
6	Acutrak 3 Mini Dense Bone Drill	80-4143
7	Acutrak 3 Mini Drill	80-4142
8	Acutrak 3 Mini Profile Drill	80-4140

Acutrak 3 Mini Tray Components

Mini Acutrak 3 Implants*

12 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35012
14 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35014
16 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35016
18 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35018
20 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35020
22 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35022
24 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35024
26 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35026
28 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35028
30 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35030
32 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35032
34 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35034
36 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35036
38 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35038
40 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35040
42 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35042
44 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35044
46 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35046
48 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35048
50 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35050
52 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35052
54 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35054
56 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35056
58 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35058
60 mm, 3.5 Mini Acutrak 3 Bone Screw	3052-35060

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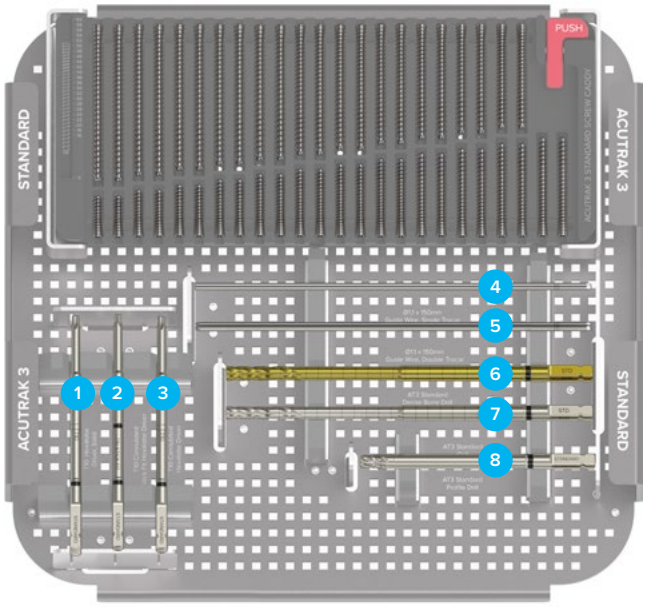

Acutrak 3 Standard Tray Components

Standard Acutrak 3 Instrumentation

1	T10 Hexalobe Driver, Solid	80-4160
2	T10 Cannulated Stick Fit Hexalobe Driver	80-4156
3	T10 Cannulated Hexalobe Driver	80-4152
4	Ø1.1 x 150 mm Guide Wire, Single Trocar	35-0029
5	Ø1.1 x 150 mm Guide Wire, Double Trocar	35-0030
6	Acutrak 3 Standard Dense Bone Drill	80-4148
7	Acutrak 3 Standard Drill	80-4147
8	Acutrak 3 Standard Profile Drill	80-4145

Standard Acutrak 3 Tray Components

Standard Acutrak 3 Implants*

16 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40016
18 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40018
20 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40020
22 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40022
24 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40024
26 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40026
28 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40028
30 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40030
32 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40032
34 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40034
36 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40036
38 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40038
40 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40040
42 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40042
44 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40044
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48 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40048
50 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40050
52 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40052
54 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40054
56 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40056
58 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40058
60 mm, 4.0 Standard Acutrak 3 Bone Screw	3053-40060

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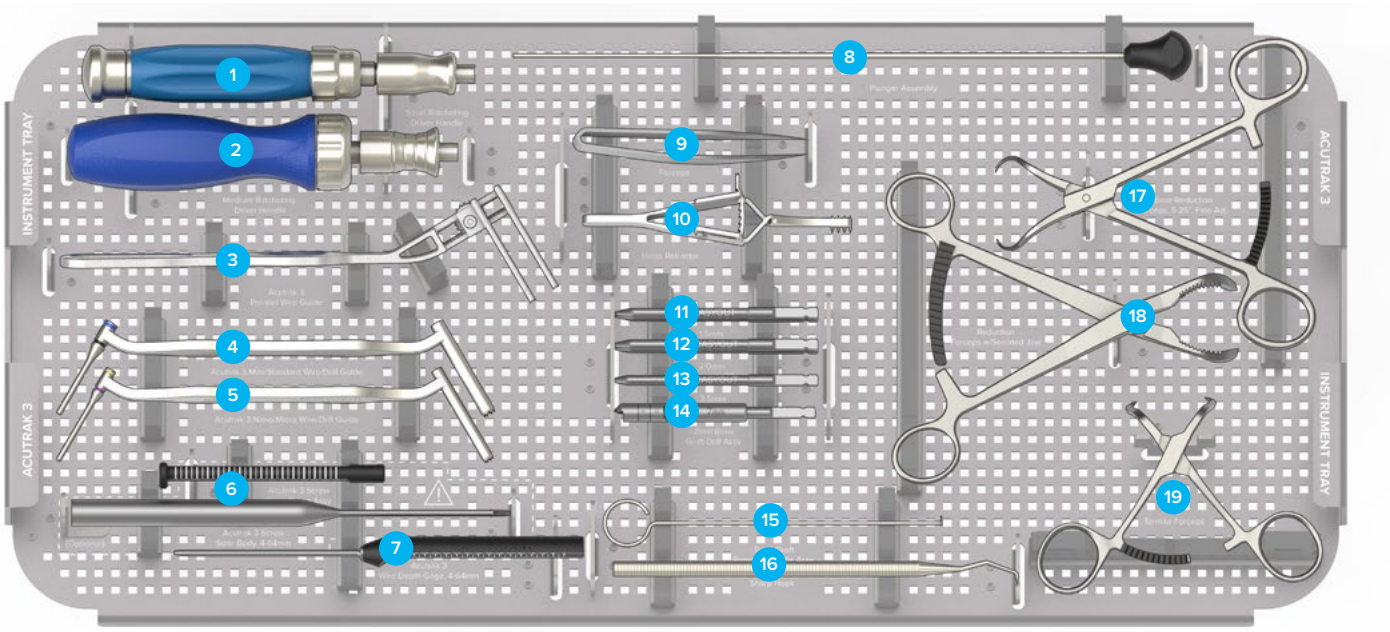

Tray Components

Universal Acutrak 3 Instrumentation

1	Small Ratcheting Driver Handle	80-4071
2	Medium Ratcheting Driver Handle	80-0663
3	Acutrak 3 Parallel Wire Guide	80-4126
4	Acutrak 3 Mini/Standard Wire/Drill Guide	80-4118
5	Acutrak 3 Nano/Micro Wire/Drill Guide	80-4122
6	Acutrak 3 Screw Sizer, 4–64 mm	80-4164
7	Acutrak 3 Wire Depth Gage, 4–64 mm	80-4169
8	Plunger Assembly	80-4161
9	Forceps	AT-7005
10	Heiss Retractor	80-0756

11	1.5 mm Easyout, QR	80-0598
12	2.0 mm Easyout, QR	80-0599
13	2.5 mm Easyout, QR	80-0600
14	7 mm Bone Graft Drill Assy.	PL-BG07
15	6 mm Graft Removal Paddle Assy.	BG-8064
16	Sharp Hook	PL-CL06
17	Bone Reduction Forceps, 5.25", Fine Adj.	80-1810
18	Reduction Forceps w/Serrated Jaw	PL-CL04
19	Termite Forceps	80-4172

Ordering Information [continued]

Tray Components

Acutrak 3 - Tray

Acutrak 3 Case Base	80-4173
Acutrak 3 Case Lid	80-4174
Acutrak 3 Satellite Case Base	80-4175
Acutrak 3 Nano/Micro Case Lid	80-4176
Acutrak 3 Mini/Standard Case Lid	80-4177
Acutrak 3 Satellite Instrument Tray	80-4178
Acutrak 3 Full Instrument Tray	80-4179
Acutrak 3 Nano Screw Tray	80-4180
Acutrak 3 Nano Screw Caddy	80-4181
Acutrak 3 Micro Screw Tray	80-4182
Acutrak 3 Micro Screw Caddy	80-4183
Acutrak 3 Mini Screw Tray	80-4184
Acutrak 3 Mini Screw Caddy	80-4185
Acutrak 3 Standard Screw Tray	80-4186
Acutrak 3 Standard Screw Caddy	80-4187
Acutrak 3 Instrument SS Tray	80-4188
Acutrak 3 Nano Screw SS Tray	80-4189
Acutrak 3 Nano Screw SS Caddy	80-4190
Acutrak 3 Micro Screw SS Inlay	80-4191
Acutrak 3 Micro Screw SS Caddy	80-4192
Acutrak 3 Mini Screw SS Tray	80-4193
Acutrak 3 Mini Screw SS Caddy	80-4194
Acutrak 3 Standard Screw SS Inlay	80-4195
Acutrak 3 Standard Screw SS Caddy	80-4196
Acutrak 3 Instrument SS Inlay	80-4197
Acutrak 3 Nano Screw Caddy Lid	80-4198
Acutrak 3 Micro Screw Caddy Lid	80-4199
Acutrak 3 Mini Screw Caddy Lid	80-4200
Acutrak 3 Standard Screw Caddy Lid	80-4201

Note: To learn more about the full line of Acumed innovative surgical solutions, please contact your authorized Acumed distributor, call 888.627.9957, or visit www.acumed.net.

References

1. Hoang D, Vu C, Jackson M, Huang J. An anatomical study of metacarpal morphology utilizing CT scans: evaluating parameters for antegrade intramedullary compression screw fixation of metacarpal fractures. *J Hand Surg.* 2021 Feb;46(2):149.e1-149.e8. doi: 10.1016/j.jhsa.2020.08.007. Epub 2020 Oct 19. PMID: 33092908.

Notes:

www.acumed.net

Acumed USA Campus
5885 NE Cornelius Pass Road
Hillsboro, OR 97124
+1.888.627.9957

OsteoMed USA Campus
3885 Arapaho Road
Addison, TX 75001
+1.800.456.7779

Acumed Iberica Campus
C. Proción, 1
Edificio Oficor
28023 Madrid, Spain
+34.913.51.63.57

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