AcUMED®

Headless Compression Screw
With the Acutrak Headless Compression Screw, Acumed has designed an advanced solution for repairing fractures, performing joint fusions, and fixing osteotomies throughout the upper and lower extremities. Advanced implant technology and straightforward instrumentation enable the Acutrak systems to be an effective means of fixation for a wide variety of indications. Combining versatility with an excellent rate of fixation and ongoing compression, the Acutrak is a great choice for a wide variety of indications, including:

- Scaphoid Fractures
- Subtalar Fusions
- Radial Head Fractures
- IP Fusions

Since its introduction, Acutrak has attained a 97.2% union rate for acute fractures repaired using a percutaneous technique1,2 and an 87% union rate when utilized to treat delayed and nonunions.3,4
Compression
The variable thread pitch and tapered profile work together to compress two bone fragments into one rigid structure promoting union. The Acutrak’s fully-threaded length assists in maintaining compression through loading until the bone fragments unite.

Holding Power
In biomechanical testing against AO headed and Herbert headless screws, the Acutrak maintained 91.3% of its compression through cyclic loading. The Acutrak not only generated the most compression, but it maintained the highest percentage of compression after cyclic loading.

Straightforward Insertion Procedure
The cannulation, self-tapping threads and unique means of compression promote a straightforward surgical protocol that generates excellent compression and holding power:

- **Headless:** Allows the titanium screws to be implanted in and around articular regions with minimal risk of impingement or soft tissue irritation.
- **Fully-Threaded Length:** Enables the Acutrak to better handle the cyclic loading that may occur during healing. This feature allows a fracture, fusion or osteotomy site to lie almost anywhere along the length of the screw.
- **Variable Thread Pitch:** The wider thread pitch at the tip of the screw penetrates the bone faster than the finer trailing threads, compressing the two fragments gradually as the screw is advanced.
- **Cannulated:** Facilitates accurate percutaneous insertion with minimal soft tissue dissection.
- **Self-Tapping:** Cutting flutes on both ends of the screw aid with insertion and removal.
- **Tapered Profile:** Allows the threads to purchase new bone with each turn, gaining compression and maximizing pull-out strength along its entire length.
Since 1994, the Acutrak Headless Compression Screws have become well accepted implants for scaphoid fracture treatment and a wide variety of other indications in the upper extremity. Excellent compression, holding power, and straightforward surgical instrumentation has enabled surgeons to treat fractures, fusions and osteotomies with greater efficiency and effectiveness. With rigid fixation in place, patients may be able to return to normal activities sooner. The Acutrak has been recognized particularly for its success in treating scaphoid fractures and non-unions. Whether a surgeon uses a dorsal or volar, percutaneous or mini-open, direct or arthroscopic approach, the Acutrak provides excellent fixation for this indication.

The Acutrak’s benefits translate equally well to a variety of other indications that are commonly seen in the upper extremity. IP fusions, carpal arthrodeses, radial head fractures, interphalangeal fractures and many others all benefit from the headless profile, strong compression and excellent holding power of the Acutrak Headless Compression Screw Systems.
The holding power of the Acutrak Headless Compression Screw is extremely beneficial in the weight bearing area of the body. Its fully-threaded length provides bony engagement along a greater portion of the screw than any other headed or headless compression screw. This translates into a greater ability to maintain compression once the patient begins bearing weight.

All of the Acutrak Headless Compression Screw Systems can be utilized in the lower extremity. Whether used for subtalar arthrodesis, bunions, Jones fractures or a wide variety of other indications in the lower extremity, the benefits of the screw consistently contribute to great results throughout the foot and ankle.

With greater bending and pullout strength than its headed competitors’, the Acutrak provides a reliable means to fix everyday indications, as well as the more challenging cases a surgeon sees in their practice.
Fixation of the small to medium bones of the hand and foot where a 3.5-4.0mm headed screw or an equivalent sized headless screw could be used.

The Acutrak Standard was the first and most successful compression screw system that Acumed developed. Incorporating a variable pitch into its fully-threaded, tapered design, the Acutrak Standard proved to be much different than any other screw on the market.

After years of clinical success, along with a succession of biomechanical and clinical papers supporting the advantages of the screw, the Acutrak Standard is a well accepted means of fixation for scaphoid fractures and many other percutaneous and open indications.

Utilizing a tapered profile and variable thread pitch, to create compression, the Acutrak Standard is able to draw two fragments together without a head or the need to over drill the proximal fragment.

Ideal for:
- Scaphoid Fractures and Non-Unions
- Carpal Fusions
- Radial Styloid Fractures
- MCP Fusions
- Capitellum Fractures
- Bunionectomies - Proximal and Distal
- Tarsal Fractures
- 5th Metatarsal Fractures
- Midfoot Fusions
- OCD Repair
- Osteotomies

Guide Wire: .045” (1.1mm)  
Hex Size: 2.0mm  
Material: Titanium Alloy
**Fixation of small bones where a traditional 2.7-3.0mm headed screw or equivalent sized headless screw could be used.**

The Acutrak Mini uses the same design principles but has a smaller diameter and shorter lengths. It can be used in smaller bones or in cases where less hardware is required.

For smaller scaphoids, radial heads, bones of the foot and many other indications, the Acutrak Mini is an excellent means of fixation.

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**Ideal for:**
- Scaphoid Fractures
- Phalangeal Fractures
- Carpal Fusions
- MCP Fusions
- Radial Head Fractures
- Chevron, Akin and Weil Osteotomies
- OCD Repair

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**Fixation of interphalangeal fusions in both the hand and the foot.**

The Acutrak Fusion screws are the only headless compression screws designed specifically for interphalangeal joint arthrodesis. Unlike K-wires, the Acutrak Fusion screws are implanted below the surface of the bone and create compression across the joint. The small diameter of the Acutrak Fusion screws allow them to be used without nail bed disruption from an IP fusion.
The Acutrak Plus Headless Compression Screw System is designed for use in the upper and lower extremities where larger diameter and longer length screws are needed.

A headless means of fixation is a valuable tool in patient care as it eliminates traditional hardware prominence complications. Whether on the walking surfaces of the calcaneous or the ankle, where limited soft-tissue coverage is available, headed screws can create considerable discomfort and lead to complications and/or removal procedures.

With its headless profile, the Acutrak Plus is effective in treating these areas without the concerns of prominence and soft-tissue irritation. Combined with its excellent compression and holding power, the Acutrak Plus is an ideal means of fixation for fractures, arthrodeses and osteotomies in the upper and lower extremities.

**Ideal for:**
- Hindfoot Arthrodesis
- Ankle Arthrodesis
- Calcaneal Osteotomies
- Greater Tuberosity Fractures
- Tibial Plateau Fractures
- Femoral Condyle Fractures

*Fixation of medium to large bones where a traditional 6.5mm headed screw or equivalent sized headless screw could be used.*
**Fixation of medium to large bones where a traditional 4.5mm headed screw or equivalent sized headless screw could be used.**

Designed initially as an extension of the Acutrak family for malleolar fractures, the Acutrak 4/5 has found several indications where its taper and headless profile make for an ideal method of fixation.

The Acutrak 4/5 provides an excellent means of fixation for Jones fractures and nonunions. Given the taper of the 5th metatarsal canal and the historical issues with screw prominence in this region, a headless, tapered screw has the ability to solve issues associated with patient discomfort.

The Acutrak 4/5 also provides an excellent biomechanical advantage. Studies found the Acutrak 4/5 to be equivalent in bending strength to a larger diameter 6.5mm headed screw in this application. Fractures of the talus, distal radius, greater tuberosity and many other indications are excellent for the Acutrak 4/5 screw.

**Ideal for:**
- Jones Fractures
- Talus Fractures
- Malleolar Fractures
- Midfoot Fusions
- MTP Fusions
- Greater Tuberosity Fractures

Guide Wire: .054" (1.4mm)  
Hex Size: 2.5mm  
Material: Titanium Alloy
The Acutrak 6/7 offers a broad range of implants and innovative instrumentation for upper and lower extremity indications. Sturdy guide wires and a strong hex driver ease insertion. The long lengths and large screw diameter make fixation stronger for reconstructive procedures of the hindfoot and ankle and a number of indications in the upper extremity.

Twice as strong in bending at its midpoint as an AO 7.3mm screw, the Acutrak 6/7 is excellent for subtalar arthrodesis and femoral condyle fractures. These weight bearing areas can be subject to hardware loosening and/or breakage with traditional headed screw fixation. Using the Acutrak 6/7 provides a great amount of strength with the benefits of headless fixation.

**Ideal for:**
- Hindfoot Arthrodesis
- Ankle Arthrodesis
- Calcaneal Osteotomies
- Greater Tuberosity Fractures
- Tibial Plateau Fractures
- Femoral Condyle Fractures

*Fixation in large bones where a traditional 7-7.3mm headed screw or equivalent sized headless screw could be used.*
# Ordering Information

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**Acumed®**

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Bibliography


