



Anatomic Radial Head Solutions 2

Treatment Options for Simple to Complex Fractures

Product Overview



A COLSON ASSOCIATE



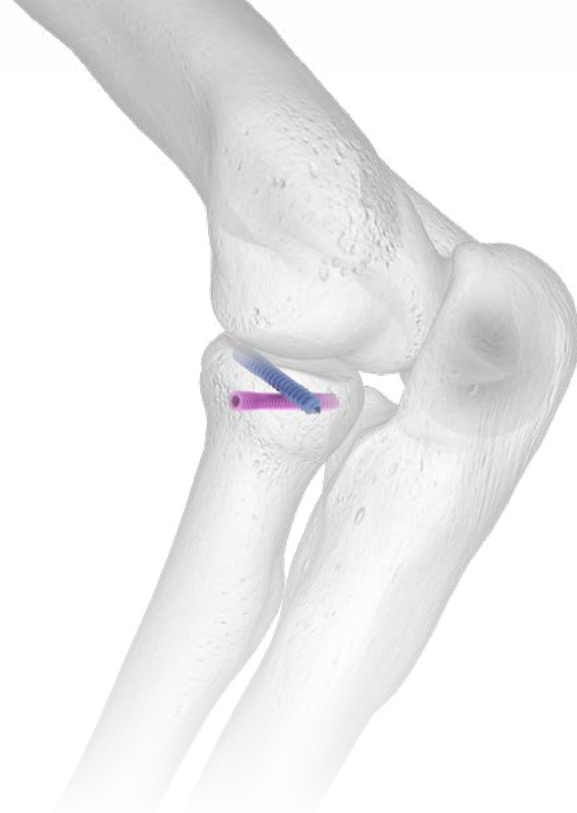
Anatomic Radial Head Solutions

Treatment Options for Simple to Complex Fractures

Acumed offers comprehensive solutions for a variety of elbow fractures, including cannulated screws, plating, and arthroplasty with an anatomic implant. Acumed created the first anatomically shaped radial head on the market and has continued to evolve that system, replacing broaches with reamers, adding long stems, and enhancing the instrumentation.

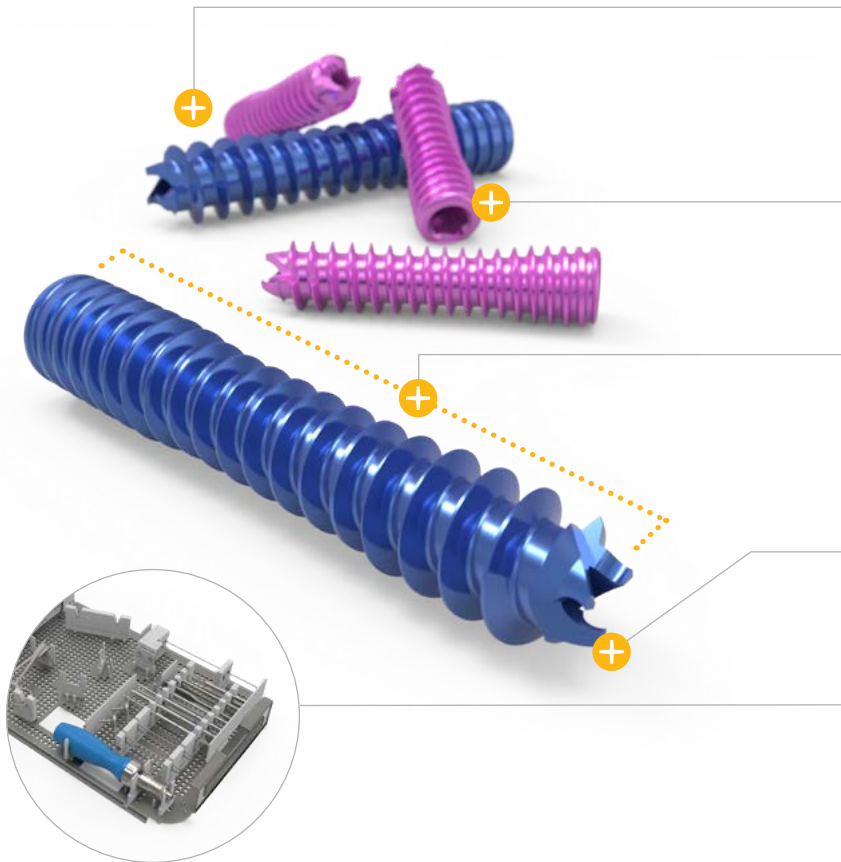
The Acutrak 2® Headless Compression Screw (Mini and Micro sizes) and the Radial Head Plating System also add to the surgeon's toolkit for elbow fixation.





Acutrak 2® Headless Compression Screw

Acutrak 2 screws are designed for the fixation of small bones and fracture fragments, in place of a headed screw or an equivalent-size headless screw.



Mini and Micro Sizes

Acutrak 2 Mini has a 3.5 mm diameter tip and a 3.6 mm tail

Acutrak 2 Micro has a 2.5 mm tip and a 2.8 mm tail

Headless Screw

Headless screw design is intended to minimize soft tissue irritation

Patented Thread Pitch

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

Designed to Ease Insertion

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

Expanded Surgical Options

Acutrak 2 Mini and Micro Instruments may be included in the base of each radial head prosthesis tray to provide more surgical options. Acutrak 2 screws are available for individual order sterile or nonsterile packaged



Radial Head Plating System

The system offers a straightforward solution when the radial head is salvageable. Two lengths and two head curvatures provide options for varying patient anatomy and fracture patterns. Radial head plates may be included in the base of each radial head prosthesis tray to provide more surgical options.



Strategic Screw Angles

Converging and diverging locking screw angles are engineered to provide support and help capture fracture fragments



Precontoured Plates

Anatomically precontoured plates are designed for the fixation of radial head fractures



Anatomic Radial Head Solutions 2

Anatomic Radial Head Solutions 2 is more comprehensive than ever with the addition of upgraded instrumentation, more standard and long stem sizes, and an 18 mm head option, increasing the total head and stem combinations to 924.



Anatomic Radial Head Prosthesis

The only anatomically shaped radial head implant is designed to mimic the radiocapitellar joint contact of a native radial head, which may help avoid cartilage erosion^{1,2}

Complete Range of Long Stems

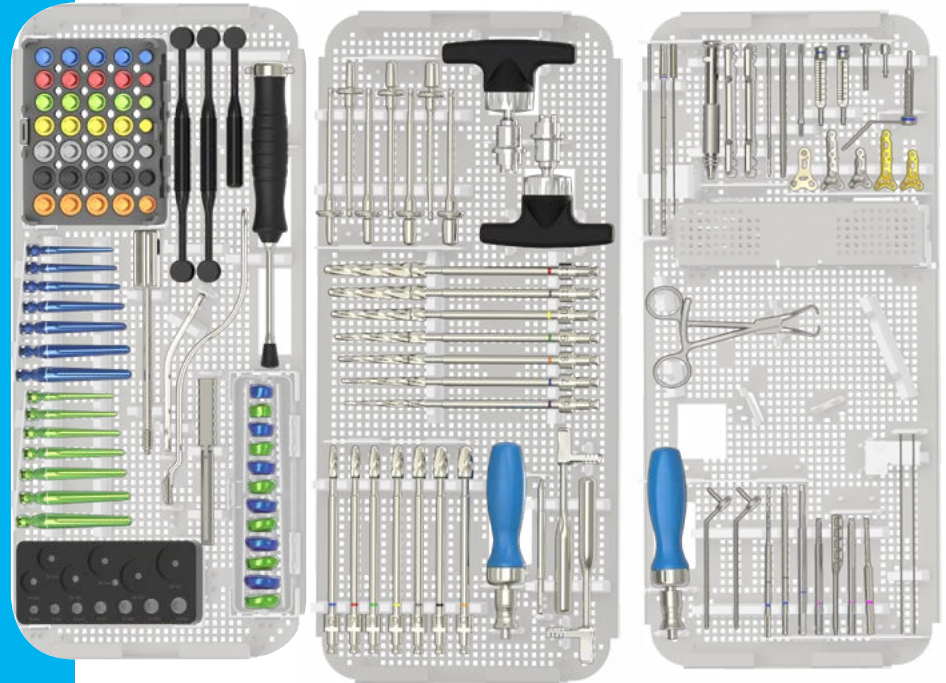
With lengths from 50–65 mm and diameters from 6–12 mm, in 1 mm increments, long stems are included in the system for distal fractures and revision following failed radial head arthroplasty

Enhanced System Trays

In a continued effort to provide the most comprehensive radial head fracture solution on the market, Anatomic Radial Head Solutions 2 offers our Anatomic Radial Head prosthesis, Radial Head Plating System, and Acutrak 2 System in one tray.

Features include:

- ▶ Rigid container system compatibility
- ▶ Full tray modularity, allowing for three packaging options for size- and weight-restricted markets
- ▶ Updated caddies and instrumentation, including K-wire measuring gauges for enhanced ease of use





Canal Reamers*

Reamers replaced broaches for canal preparation. Reamers may allow for a larger stem diameter than broaches and may decrease risk of fracture compared to broaches³



Innovative Instrumentation

A radiolucent targeting guide is included to assist with threading the locking drill guide into the proximal locking holes



Radius Retractor Instrument

The radius retractor is intended to facilitate reaming, trialing, and insertion of the anatomic radial head

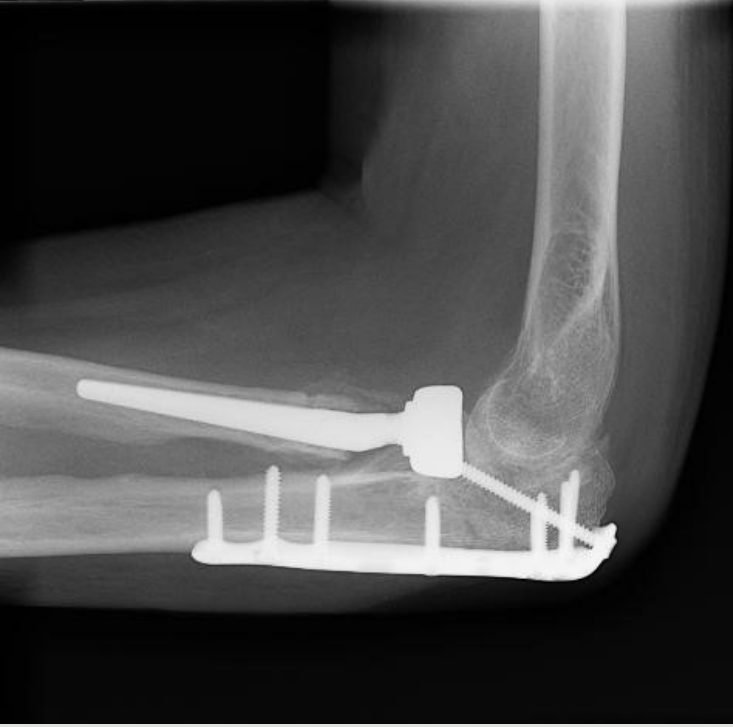
*The original Anatomic Radial Head System with broaches is still available upon request.



A radial head fracture has been fixed with Acutrak 2® Mini headless compression screws, designed to minimize soft tissue irritation.



Screws in the Radial Head Plating System are designed to sit flush with the plate for minimized hardware prominence.



In conjunction with our Elbow Plating System, the Anatomic Radial Head Solutions 2 system offers long stems designed to accommodate some of the most complex injuries to the elbow.



Contouring of the medial side of the head has been further defined to track against the radial notch of the ulna. The implant's medial surface has also been contoured to better replicate the lateral trochlear ridge, which may help avoid cartilage erosion.³

Acutrak 2® Mini or Micro



Exposure and Reduction



Guide Wire Insertion



Determine Screw Length



Fracture Type Salvageable Radial Head Fracture*

*For reference only. For full surgical instructions, see the current Acutrak 2 Supplemental Use Guide—Hand and Wrist.

Radial Head Plate



Exposure and Reduction



Plate Placement



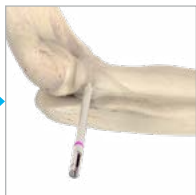
Provisional Plate Fixation



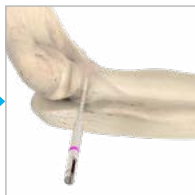
Fracture Type Salvageable Radial Head Fracture†

†For reference only. For full surgical instructions, see the current Radial Head Plating System Surgical Technique.

Drill



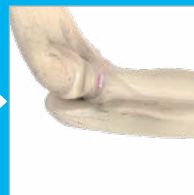
Drill



Advance Self-Tapping Screw



Postoperative Protocol



Nonlocking Distal Screw Fixation



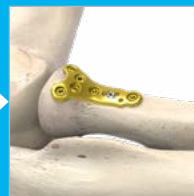
Insert Locking Screw



Final Screw Placement



Postoperative Protocol

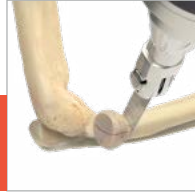


Standard Stem



Fracture Type
Nonsalvageable
Radial Head Fracture[†]

**Radial Head
Resection**



**Determine Stem
Diameter**



**Ream With Collar
Reamer**

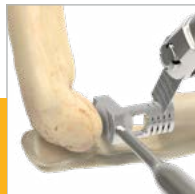


Long Stem



Fracture Type
Nonsalvageable
Radial Head Fracture[†]

**Radial Head/Neck
Resection**



**Determine Stem
Diameter**



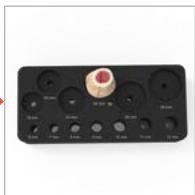
Final Resection



**Confirm Stem
Diameter**

[†]For reference only. For full surgical instructions, see the current Anatomic Radial Head Solutions 2 Surgical Technique.

Determine Head Diameter



Determine Collar Height



Trial Implant Insertion



Implant Assembly



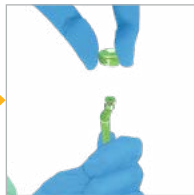
Implant Insertion



Determine Head Diameter



Select Trial Implants and Assemble



Trial Implant Insertion



Implant Assembly



Implant Insertion



	Product in Portfolio Product Not in Portfolio	Partial Offering Product in Development	Acumed	DePuy Synthes	Stryker	Smith & Nephew
Shoulder	Clavicle/Scapula	Superior Clavicle Plates	✓	✓	✓	✓
		Anterior Clavicle Plates	✓	✓	✓	✓
		Hook Plates	✗	✓	✓	✗
		Scapula Border Plates	✓	✗	✗	✗
		Glenoid Plates	✓	✗	✗	✗
		Acromion Plates	✓	✗	✗	✗
		Clavicle Screws/Pins	✓	✗	✗	✗
		Proximal Humeral Nails	✓	✓	✓	✓
		Proximal Humeral Plates	✓	✓	✓	✓
Midshaft Plates	✗	✓	✓	✓		
Elbow	Distal Humerus	90/90 Plates	✓	✓	✓	✓
		Parallel Plates	✓	✓	✓	✓
		External Fixation	✗	✓	✗	✓
		Olecranon Plates	✓	✓	✓	✓
		Coronoid Plates	✓	✗	✗	✗
		Proximal Ulna Nails	⚙️	✓	✗	✗
Radial Head	Radial Head	Radial Head Plates	✓	✓	✓	✗
		Radial Head Replacement, Short Stem	✓	✗	✗	✗
		Radial Head Replacement, Long Stem	✓	✗	✗	✗
		Ulna Plates	✓	✓	✓	✓
Forearm	Forearm	Anatomic Midshaft Volar Radius Plates	✓	✗	✓	✗

Wrist	Distal Ulna	Dorsolateral Midshaft Radius Plates	✓	✗	✗	✗
		Ulna Nails	✓	✗	✗	✓
		Radius Nails	✓	✗	✗	✓
	Distal Ulna	Distal Ulna Plates	✓	✓	✗	✓
		Ulnar Shortening Plates	✓	✓	✗	✗
		Volar Distal Radius Plates	✓	✓	✓	✓
	Distal Radius	Dorsal Distal Radius Plates	✓	✓	✓	✗
		Radial Styloid Plate	✓	✓	✓	✗
		Dorsal Rim Plates	✓	✗	✗	✗
		Dorsal Lunate Plates	✓	✗	✗	✗
		Volar Lunate Plates	✓	✗	✗	✗
		Wrist Spanning Plates	✓	✗	✗	✗
External Fixation		✓	✓	✓	✓	
Carpal		Wrist Fusion	✓	✓	✓	✗
		Nitinol Staples	⚙️	✓	✓	✓
	Phalangeal & Metacarpal	Hand Fracture Plates	✓	✓	✓	✓
MCP Fusion Plates		✓	✗	✓	✗	
External Fixation		✓	✓	✓	✗	
Specialty Hand Plates		✓	✓	✓	✗	
Screws		Headless	✓	✗	✗	✗
	Headed	Differential Pitch	✗	✓	✓	✓
		Partial Thread	✓	✓	✓	✓
	Full Thread	✓	✓	✓	✓	

*Data on file with Acumed



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References

1. Sahu D, Holmes D, Fitzsimmons J, et al. Influence of radial head prosthesis design on radiocapitellar joint contact mechanics. *J Shoulder Elbow Surg.* 2014;23(4):456–462.
2. Bachman DR, Thaveepunsan S, Park S, Fitzsimmons JS, An KN, O'Driscoll SW. The effect of prosthetic radial head geometry on the distribution and magnitude of radiocapitellar joint contact pressures. *J Hand Surg Am.* 2015;40(2):281–288.
3. Shukla DR, Shao D, Fitzsimmons J, et al. Canal preparation for prosthetic radial head replacement: rasping versus reaming. *J Shoulder Elbow Surg.* 2013;22(11): 1474–1479.

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