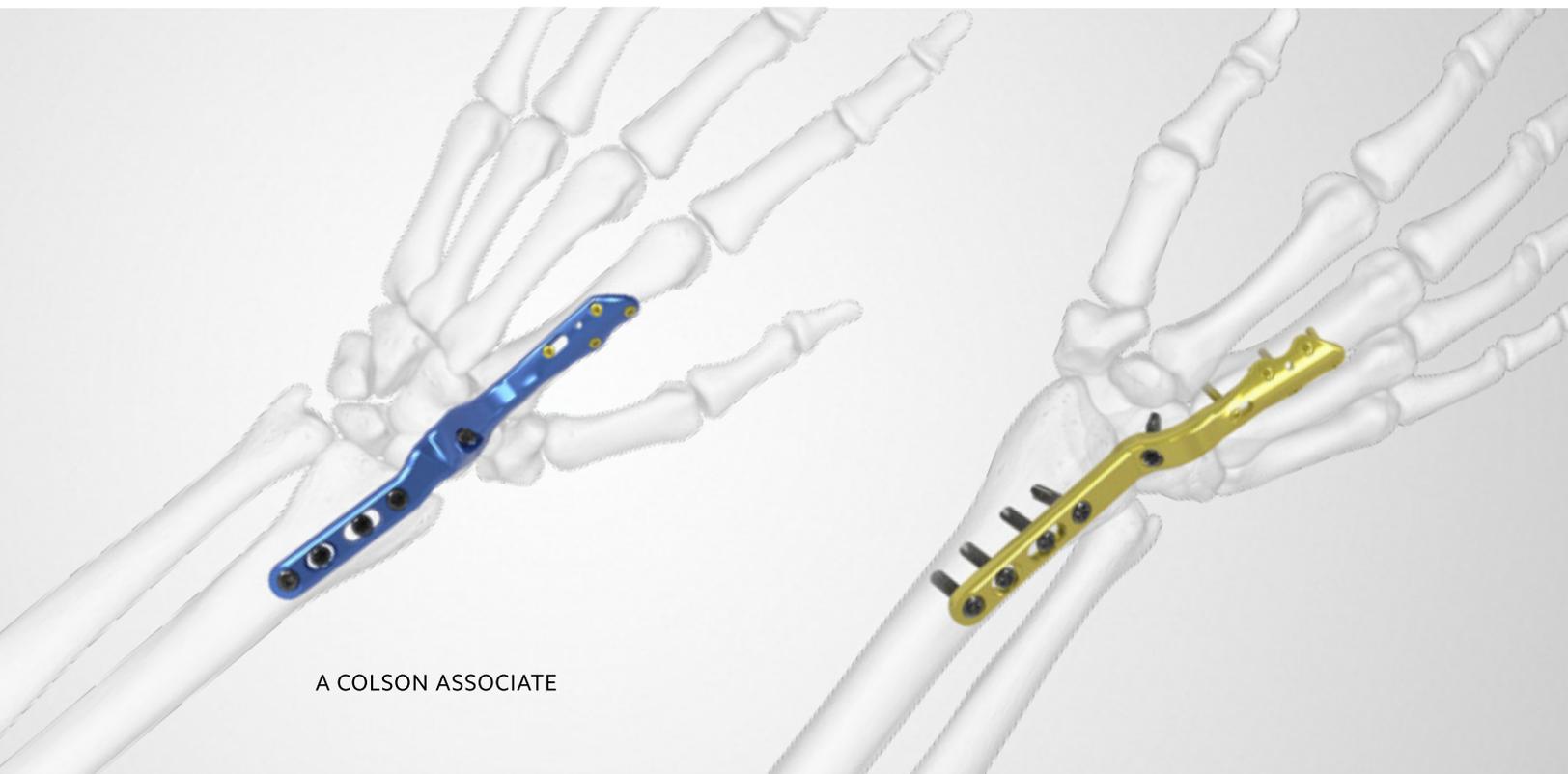


 **acumed**<sup>®</sup>  
Total Wrist Fusion Plating System

## Product Overview

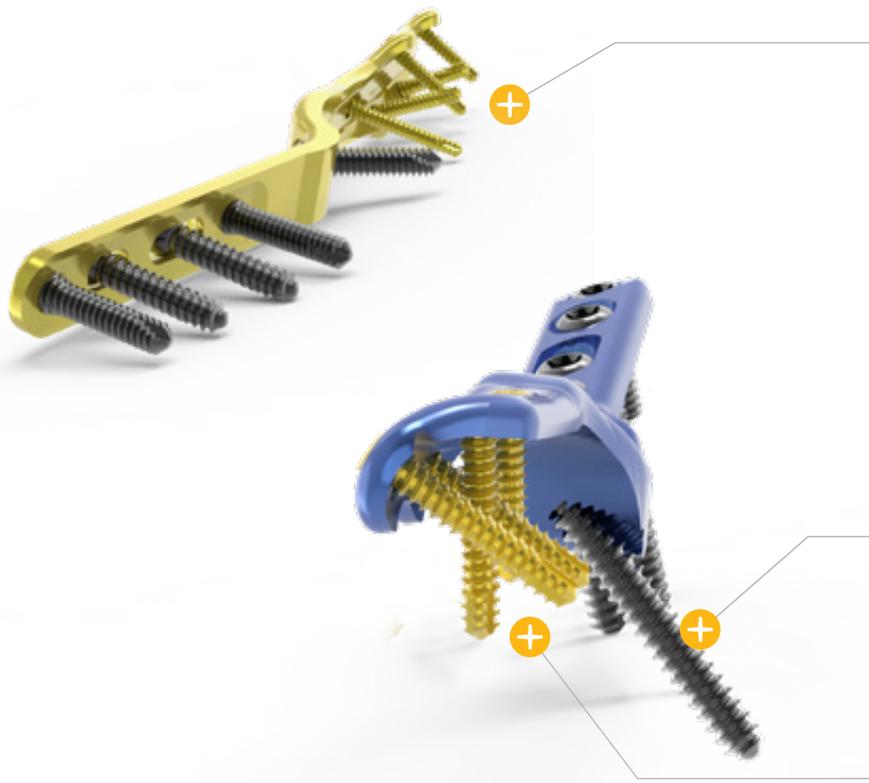


A COLSON ASSOCIATE



## Acumed® Total Wrist Fusion Plating System

The Acumed Total Wrist Fusion Plating System is designed for wrist arthrodesis due to deformities associated with degenerative arthritis, brachial plexus palsies, and spastic disorders. This five-plate system features both innovative and traditional designs. Specifically, four of the five plates are positioned on the second metacarpal, which may help reduce extensor tendon irritation. Additionally, the fifth plate is a neutral option that is placed on the third metacarpal and is developed for use with a proximal row carpectomy. All plates have a 15° dorsal bend, established as a balance between anatomic resting position, hand function, and grip strength.



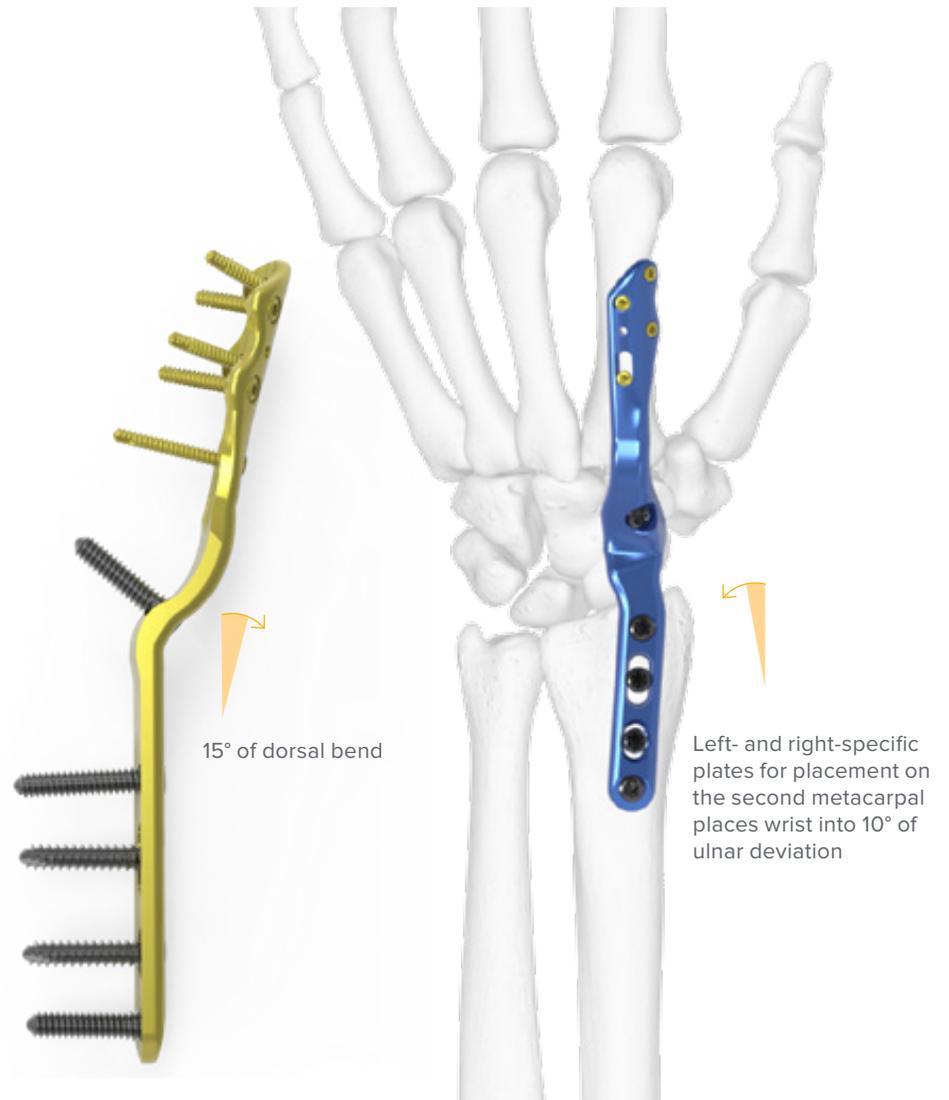
Neutral plate for placement on third metacarpal with an associated proximal row carpectomy

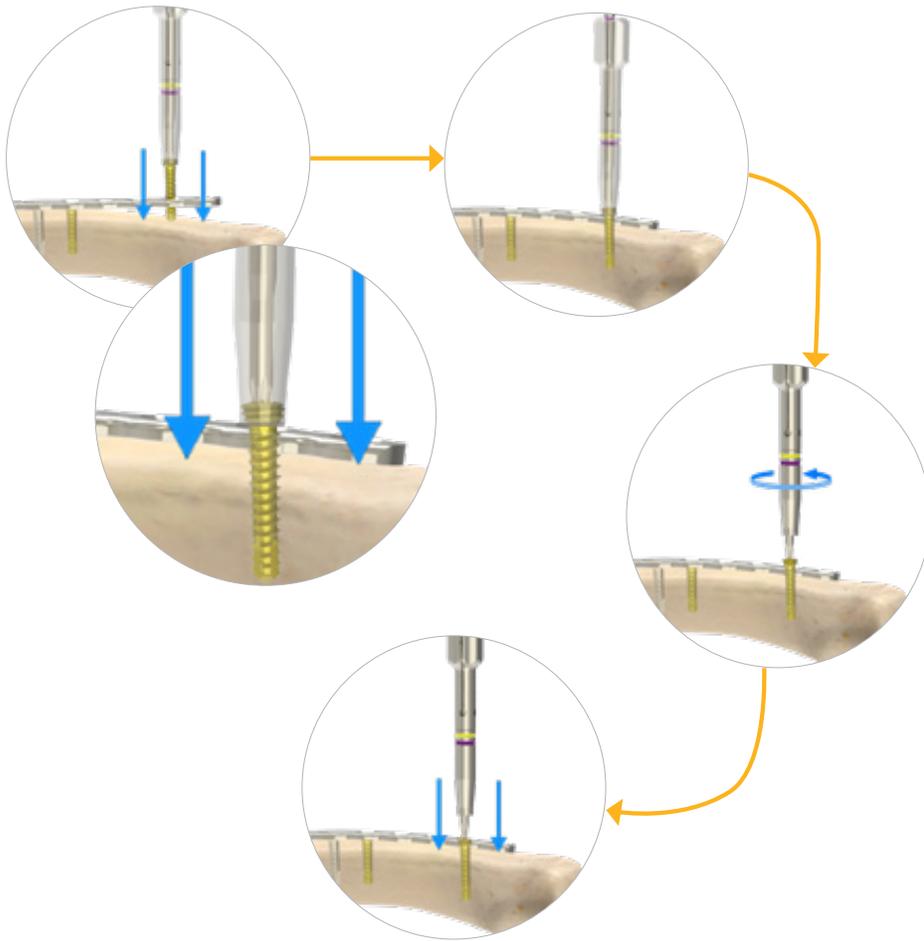
Carpal cross-screw is designed to offer additional implant stability

Converging distal screw construct is designed to assist with pullout resistance

## Total Wrist Fusion

The left- and right-specific plates were designed to sit on the second metacarpal based on published literature that found that plate design is less important than plate position with regard to hardware removal rates. Plate placement in relation to extensor tendon location is important, and this is why Acumed included left- and right-specific second metacarpal plates in the system. Additionally, the left- and right-specific plates place the wrist in a slight ulnar deviation that may improve grip strength.<sup>1</sup>

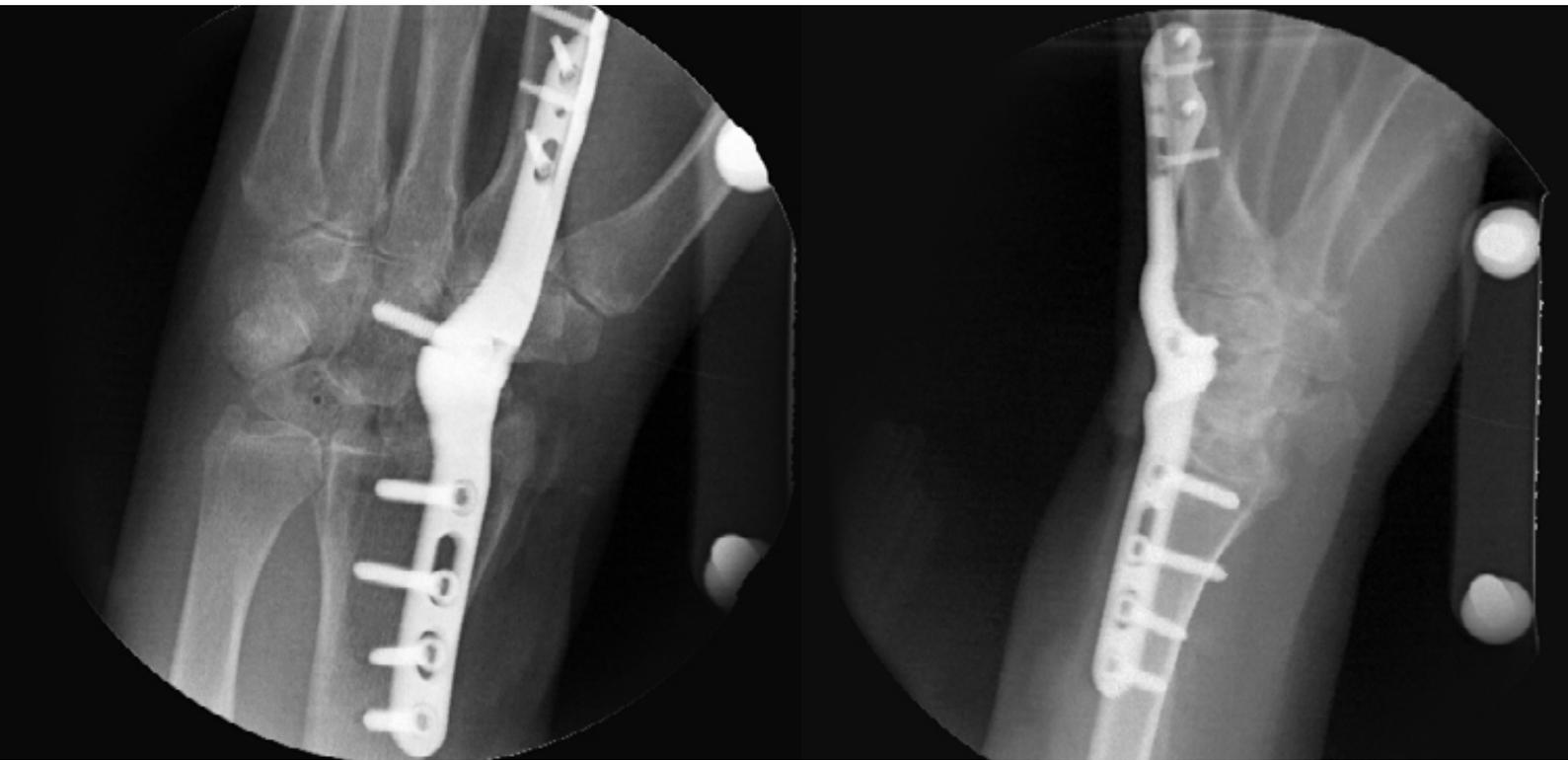




## Key Instruments

### **SaveLock Compression Sleeve**

The instrument covers the threads on the head of the Hexalobe MultiScrews while compressing the plate to the bone when inserting the screw. The sleeve is threaded over the screw head only and prevents these threads from engaging the plate when inserting the screw shaft into the bone.



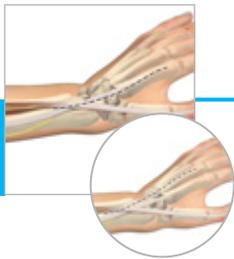
A 42-year-old patient with a brachial plexus injury resulting in partial paralysis of the shoulder, elbow, and hand was treated with the Acumed Total Wrist Fusion Plating System.



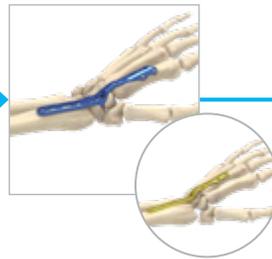
A patient elected for total wrist arthrodesis following hand replantation in order to improve grip strength

**Total Wrist  
Fusion System\***

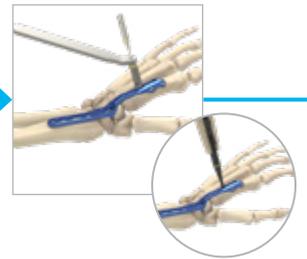
**Incision and  
Dissection**



**Plate Placement**



**Screw Placement  
and Reduction**



\*For reference only. For full instructions, see the current Total Wrist Fusion System Surgical Technique.

**Carpal Screw  
Placement**  
(3.5 mm cortical or  
hexalobe screw)



**Closure**



-  Product in Portfolio
-  Partial Offering
-  Product Not in Portfolio
-  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			
	Humerus	Proximal Humeral Nails			
		Proximal Humeral Plates			
		Midshaft Plates			
Elbow	Distal Humerus	90/90 Plates			
		Parallel Plates			
		External Fixation			
	Proximal Ulna	Olecranon Plates			
		Coronoid Plates			
		Proximal Ulna Nails			
	Radial Head	Radial Head Plates			
		Radial Head Replacement, Short Stem			
		Radial Head Replacement, Long Stem			
	Forearm	Ulna Plates			
Anatomic Midshaft Volar Radius Plates					

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

Upper Extremity Competitor Product Comparison



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## Reference

1. Field J, Herbert TJ, Prosser R. Total wrist fusion: a functional assessment. *J Hand Surg Am.* 1996;21B(4):429-433.

## Competitor Data Sources

DePuy Synthes website  
<https://www.depuyshnthes.com/>

Styker website  
<https://www.styker.com/us/en/index.html>

Smith & Nephew website  
<https://www.smith-nephew.com/>

All websites accessed on February 1, 2018

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