Product Overview
Acumed® Hand Fracture System

The Acumed Hand Fracture System is designed to provide both standard and fracture-specific fixation for metacarpal and phalangeal fractures, as well as fixation for fusions and osteotomies. This comprehensive system contains plates for fractures of the metacarpal neck, fractures of the base of the first metacarpal, avulsion fractures, and rotational malunions. Additionally, the system contains standard-shaped, cut-to-length and bend-to-fit plates and hexalobe lag screws for less complicated fractures.

Low-profile plates and screws and a rounded-edge plate cutter are designed to minimize soft tissue irritation. Versatile screws, customizable plates, and dedicated instrumentation offer a comprehensive system to streamline the surgical experience.
The Acumed Hand Fracture System offers plates in 0.8 mm and 1.3 mm thicknesses.

- **T-Plate**
- **Straight Plate**
- **Compression Plate**
- **Rolando Fracture Hook Plate**
- **Rotational Correction Plate**
- **Offset Plate**
- **Curved Medial/Lateral Plate**
- **Metacarpal Neck Plate, Left and Right**
- **Avulsion Fracture Plate**
Customizable Standard Plates
Most plates can be cut to length and bent to fit to better treat a wide variety of fracture patterns. A plate cutter included in the system is designed to create a smooth, rounded edge.

0.8 mm T-Plate

1.3 mm Straight Plate

Multiple Choices, Multiple Options
Diaphyseal Fractures
0.8 Curved Medial/Lateral Plate

Distal Phalangeal Fractures
0.8 Curved Medial/Lateral Plate

Comminuted Fractures
0.8 Offset Plate

Note: Not all configurations and options are shown
System Features

Specialty Plates

Avulsion Fracture
The 0.8 mm Avulsion Hook Plate is designed for periarticular fractures where the fragment contains a soft tissue insertion.

Rolando Fracture
The 1.3 mm Rolando Fracture Hook Plate is designed to treat a Y- or T-shaped fracture pattern at the base of the first metacarpal.

Metacarpal Neck Fracture
The 1.3 mm Metacarpal Neck Plate has three distally pointing converging screws to provide metacarpal head fixation.

Rotational Malunion Osteotomy
The 1.3 mm Rotational Correction Plate system includes a Rotational Osteotomy Cutting Guide designed to facilitate placement and orientation of the cut for rotational osteotomies of the metacarpals.
Locking Variable Angle Screws
Hexalobe MultiScrews allow for variable angle screw insertion up to 15 degrees in any direction, for a total of 30 degrees.

Hexalobe Lag Screws
These screws are designed to be used as an adjunct to plate fixation or for fractures that can be treated with lag screws alone. Acumed’s 1.5 mm and 2.3 mm Hexalobe Lag Screws do not require overdrilling of the near cortex.

Versatile Hexalobe MultiScrews
The 1.5 mm and 2.3 mm Hexalobe MultiScrews can be used in plates of either 0.8 mm or 1.3 mm thickness. The SaveLock Compression Sleeve allows these screws to function as both locking and nonlocking screws.
Small Bone Fixator
With a straightforward application, this fixator’s modular design enables pins to be placed in multiplanar arrangements, allowing the frame to be built around the fractures.

Small Bone Distractor
This lightweight, low-profile fixator can be adjusted to the amount of distraction/compression desired by the surgeon.
**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.

**Plate Cutter**
Fracture-specific and standard plates can be bent to fit and cut to length to better treat a wide variety of fracture patterns. A plate cutter included in the system is designed to create a smooth, rounded edge.
Percutaneous Bone Clamp
The 1.1mm/2.0 mm clamp is a double-barreled drill guide that aids in provisional fixation and drilling. One barrel is used to insert a K-wire across the fracture while the other barrel guides the drill.

Rotational Osteotomy Cutting Guide
This guide is designed to facilitate placement and orientation of cuts for rotational osteotomies of the metacarpals.

Single Pointed Reduction Forceps
Sharp end points engage the divots between screw holes on the plate to hold it securely to the bone during plate placement and fracture reduction.
**Rolando Fracture Hook Plate**  
First metacarpal base fracture fixation

**Small Bone Distractor**  
Metacarpal osteotomy and subsequent lengthening

**Curved Medial/Lateral Plate**  
Proximal phalanx fracture fixation
**Metacarpal Neck Plate**
Fifth metacarpal neck fracture fixation

**Straight Plate**
Metacarpal phalange fusion

**T-Plate and Lag Screw**
Third metacarpal fracture
Exposure

Exposure Osteotomy Cut

Plate Placement and Rotational Correction

Exposure and Fracture Reduction

Fracture Reduction and Plate Placement

Drilling Distal Screw Hole

Determining Screw Length

1.3 mm Rolando Fracture Hook Plate*

1.3 mm Metacarpal Neck Plate*

1.3 mm Rotational Correction Plate*

Exposure

Osteotomy Cut

Plate Placement

Proximal Screw Insertion

Plate Placement and Rotational Correction

*For reference only. For full instructions, see the current Hand Fracture System Surgical Technique.
Surgical Technique Overview

1. Distal Screw Insertion
2. Drilling Proximal Holes
3. Proximal Screw Insertion
4. Distal Cluster Screw Preparation
5. Screw Insertion
6. Drilling Proximal Holes
7. Proximal Screw Insertion
8. Distal Screw Insertion
9. Osteotomy Compression
10. Proximal Screw Insertion
11. Closure and Postoperative Protocol
12. Final Screw Insertion
13. Closure and Postoperative Protocol
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<tr>
<td><strong>Shoulder</strong></td>
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<td>Clavicle/Scapula</td>
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## Upper Extremity Competitor Product Comparison

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<tr>
<td>Partial Offering</td>
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### Acumed
- Shoulder:
  - Clavicle/Scapula
    - Superior Clavicle Plates
    - Anterior Clavicle Plates
    - Hook Plates
    - Scapula Border Plates
    - Glenoid Plates
    - Acromion Plates
  - 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

### DePuy
- Wrist:
  - Midshaft Forearm
    - Ulna Plates
    - Anatomic Midshaft Volar Radius Plates
    - Dorsolateral Midshaft Radius Plates
    - Ulna Nails
  - Distal Ulna
    - Distal Ulna Plates
  - Proximal Radius:
    - Proximal Radius Plates
    - Volar Distal Radius Plates
    - Dorsal Distal Radius Plates
  - Wrist:
    - Wrist Fusion
    - Nitinol Staples
    - Hand Fracture Plates
    - MCP Fusion Plates
    - External Fixation
    - Specialty Hand Plates
  - Hand:
    - Carpal
    - Phalangeal & Metacarpal
    - MCP Fusion Plates
    - External Fixation
    - Specialty Hand Plates
  - Screws
    - Headless Screws
    - Headed Screws
    - Partial Thread
    - Full Thread
  - Screws
    - Continuous Compression
    - Differential Pitch
  - Screws
    - Headless Screws
    - Headed Screws
    - Partial Thread
    - Full Thread
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