The **Alpha** and the **Omega** of Proximal Humeral Plating

The **ALPHA Plate** is a unique anatomical side specific plate. Its proximal contours allow for sparing of the deltoid insertion and avoidance of dissection/soft tissue stripping at the sub-deltoid space.

- Helps to avoid postoperative adhesions/stiffness, and will promote preservation of the vascular supply to the bone.
- The technique for plating does not change, the plate was created to more closely follow the anatomy of the bone.

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Holes provide an anchor point for the bicep tenodesis without having to rely on soft tissue integrity

Shaft suture holes to facilitate biceps tenodesis

Less risk of distal radial nerve iatrogenic injury

- **Primary bend** proximally contours to allow for sparing for the deltoid

- **Secondary distal contour** creates an optimal structure for fractures with shaft extension. The ALPHA's unique dual curvature design creates a near 90°opposition from proximal cluster to anterior shaft providing for superior torsional stability. (Available in longer plates only)

- **Plate rests** on the same portion of the humerus exposed during a standard anterolateral approach for humeral plating

**The Alpha plate** follows the normal anatomical features of the humerus

**The End**

**The OMEGA**

**The Beginning**

**The Anterolateral position** is not only naturally more contoured to accept the plate but is also a more natural position to avoid muscular soft tissue origins as well as the radial nerve

Less risk of distal radial nerve iatrogenic injury
Deltoid Insertion

One of the key design elements of the plate is to eliminate the need to cut the deltoid.

- **Allows for bilateral placement** of plate without overly dissecting the back of the humerus
- **Shaft suture holes** to facilitate biceps tenodesis
- **Avoids the superior flare** of the lateral epicondyle of the humerus for fixation of distal fractures
- **The anterior bend** allows the plate to sit just laterally to the bicipital groove

Eliminates cutting into the Deltoid caused by traditional proximal humeral plates

Cross Trajectory

**Convergent Proximal Screw Pattern** allows for increased fixation in the humeral head while creating an intramedullary strut.
- Screw patterns allow for anatomical diversity.

**Convergent Proximal Screw Pattern** allows for increased fixation in the humeral head while creating an intramedullary strut.

- **Resist excessive settling or subsidence of the humeral head fragment**
- **Trajectory of the screws** allows for placement of longer screws and therefore, more threads into bone
**Proximal Humeral Plate**

The AOS Proximal Humeral Plate was designed as a limited contact plate in order to reduce plate to bone contact and limiting vascular trauma and insult to the bone.

**Highlights of the 95°**

95° Proximal fitting option to help buttress the greater tuberosity and higher transverse fracture patterns.

- **Implant First, Suture Last**
- **Divergent Proximal Screw trajectories for optimal articular reconstruction**
- **Divergent Fixed Angle Holes for 4.0mm Locking Cancellous Screws**
- **Low profile plates and screws enhance fixation without impinging soft tissue**
- **10 angled suture holes around the perimeter of the proximal end**
- **130° Distal fitting option to significantly decrease the risk of subacromial impingement**
- **Double Calcar screws resist post-op varus deformity**
- **Divergent screw trajectory encapsulates fracture fragments**
- **Low profile plates and screws enhance fixation without impinging soft tissue**
**Implant Features: Proximal Humeral Plate**

- **Angled Suture Fixation Holes (8x)**
- **2.9mm K-Wire Holes (3x)**
- **Divergent Fixed Angle Holes for 4.0mm Locking Cancellous Screws**
- **Shaft Holes for 3.5mm Locking & Standard Cortical Screws**
- **Rounded Distal Tip**
- **12mm Plate Thickness**
- **4.0mm Diameter Cortical Locking Screws**
- **4.0mm Diameter Cancellous Locking Screws**
- **Implant Features:**

**Implant Features: 95° Proximal Humeral Plate**

- **5mm Plate Thickness**
- **10° screw angle**
- **Screw Trajectories**
- **3-Hole, 89mm**
- **5-Hole, 114mm**
- **8-Hole, 152mm**
- **11-Hole, 190mm**
- **14-Hole, 229mm**
- **3.5mm Compression Slot**
- **Shaft Holes for 3.5mm Locking & Standard Cortical Screws**
- **Rounded Distal Tip**
- **12mm Plate Thickness**
- **4.4mm Diameter Cortical Locking Screws**
- **4.0mm Diameter Cancellous Locking Screws**
- **Implant Features:**

**Screws**

- **3.5mm Dia. Cortical**
- **3.5mm Dia. Cortical Locking**
- **4.0mm Dia. Cancellous Locking**
- **4.0mm Dia. Cancellous Locking**
- **Home Run Screw**

**Alignment Guide**

- **16°**
- **20mm**
- **5mm Plate Thickness**
- **95° Proximal Humeral Plate**
Implant Features: Alpha Plate

- **Alignment Guide**
  - 45° Cross Trajectory
  - 123°, 125°, and 130° screw angles
  - 5mm Plate Thickness
  - Left
  - Right

- **Screws**
  - 3.5mm Dia. Cortical Locking
  - 4.0mm Dia. Cancellous Locking
  - 4.0mm Dia. Cancellous Locking

- **Shaft Holes**
  - 4-Hole, 89mm
  - 5-Hole, 102mm
  - 7-Hole, 127mm
  - 11-Hole, 178mm
  - 14-Hole, 216mm
  - 16-Hole, 241mm
  - 18-Hole, 267mm

- **5mm Compression Slot**

- **Plate Thickness**
  - 3.5mm
  - 4.4mm

- **Shaft Holes for 3.5mm Locking and Standard Cortical Screws**

- **5mm Compression Slot**

- **Screw Angles**
  - 123°, 125°, and 130°

- **Alignment Guide**
  - Left 26mm
  - Right 26mm

System Overview

- **PHP**

- **ALPHA Plate Expansion Kit**