

**AOS**<sup>TM</sup>

ADVANCED ORTHOPAEDIC SOLUTIONS



*Proximal Humeral*

PLATING SYSTEM

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# 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.

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

**The ALPHA**  
*The Beginning*

The Alpha plate follows the normal anatomical features of the humerus

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

Shaft suture holes to facilitate biceps tenodesis

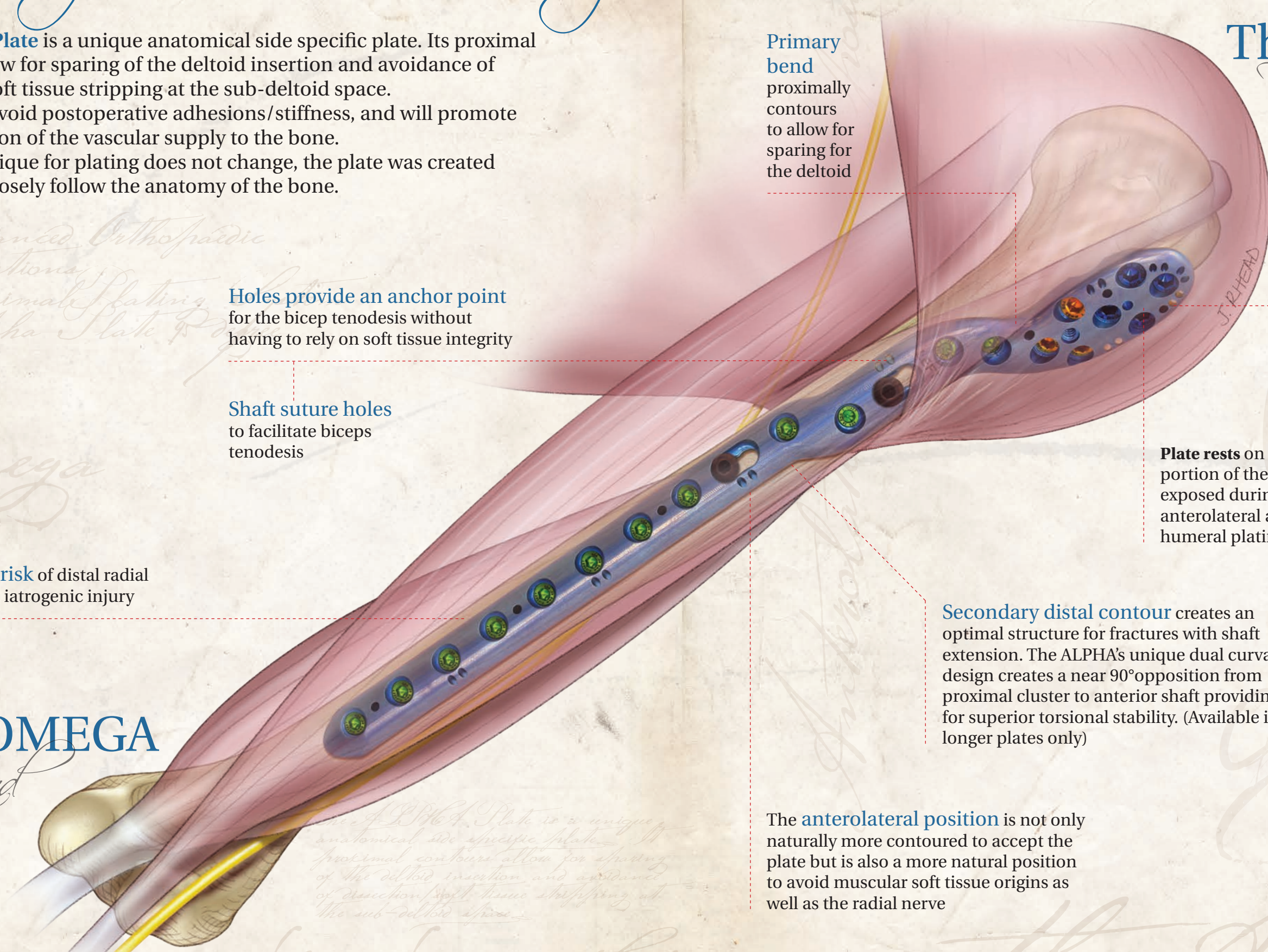
Plate rests on the same portion of the humerus exposed during a standard anterolateral approach for humeral plating

Less risk of distal radial nerve iatrogenic injury

**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)

**The OMEGA**  
*The End*

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



# 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

Eliminates cutting into the Deltoid caused by traditional proximal humeral plates

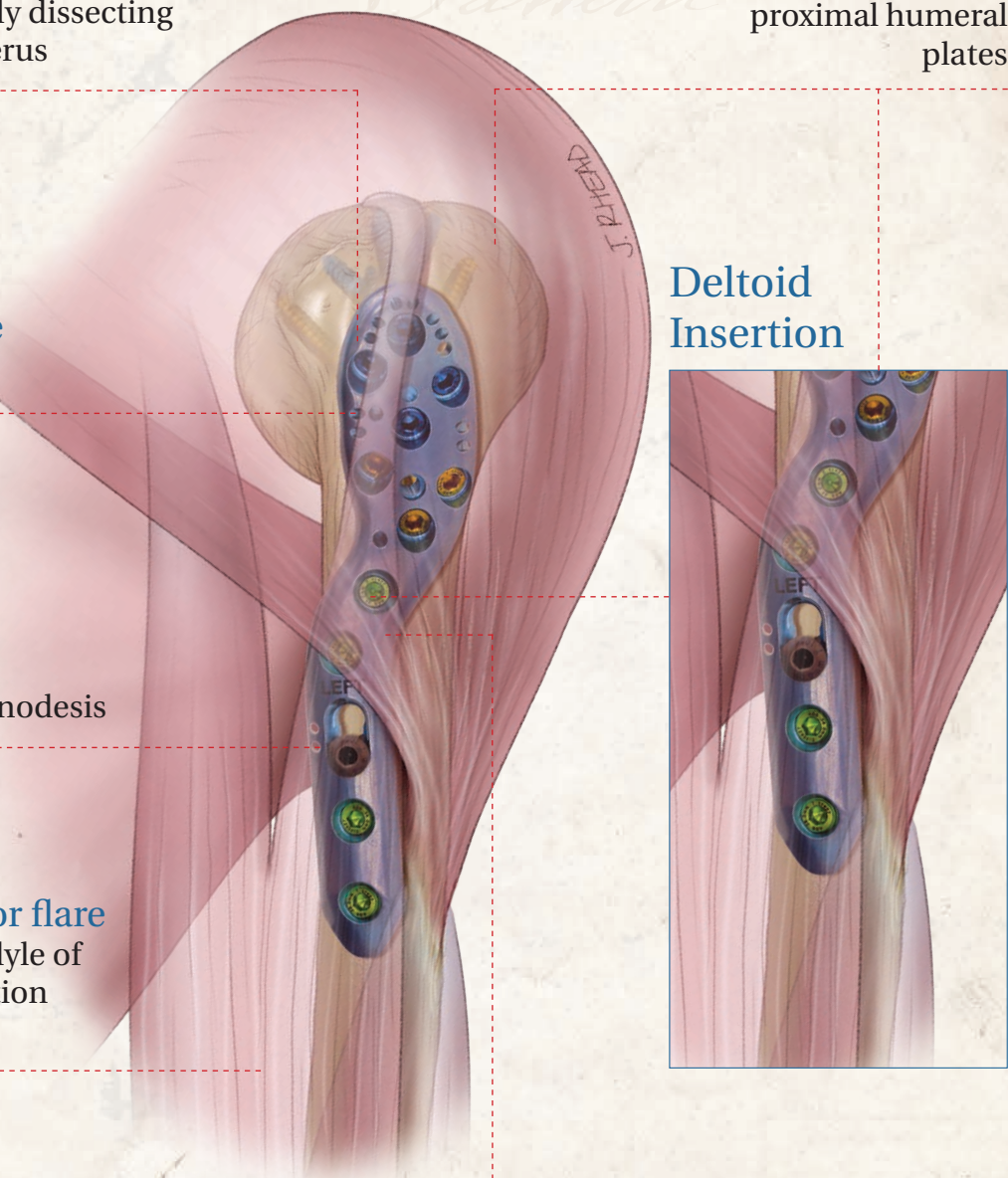
Implant first, Suture last, Suture holes

Shaft suture holes to facilitate biceps tenodesis

Avoids the superior flare of the lateral epicondyle of the humerus for fixation of distal fractures

Deltoid Insertion

The anterior bend allows the plate to sit just laterally to the bicipital groove



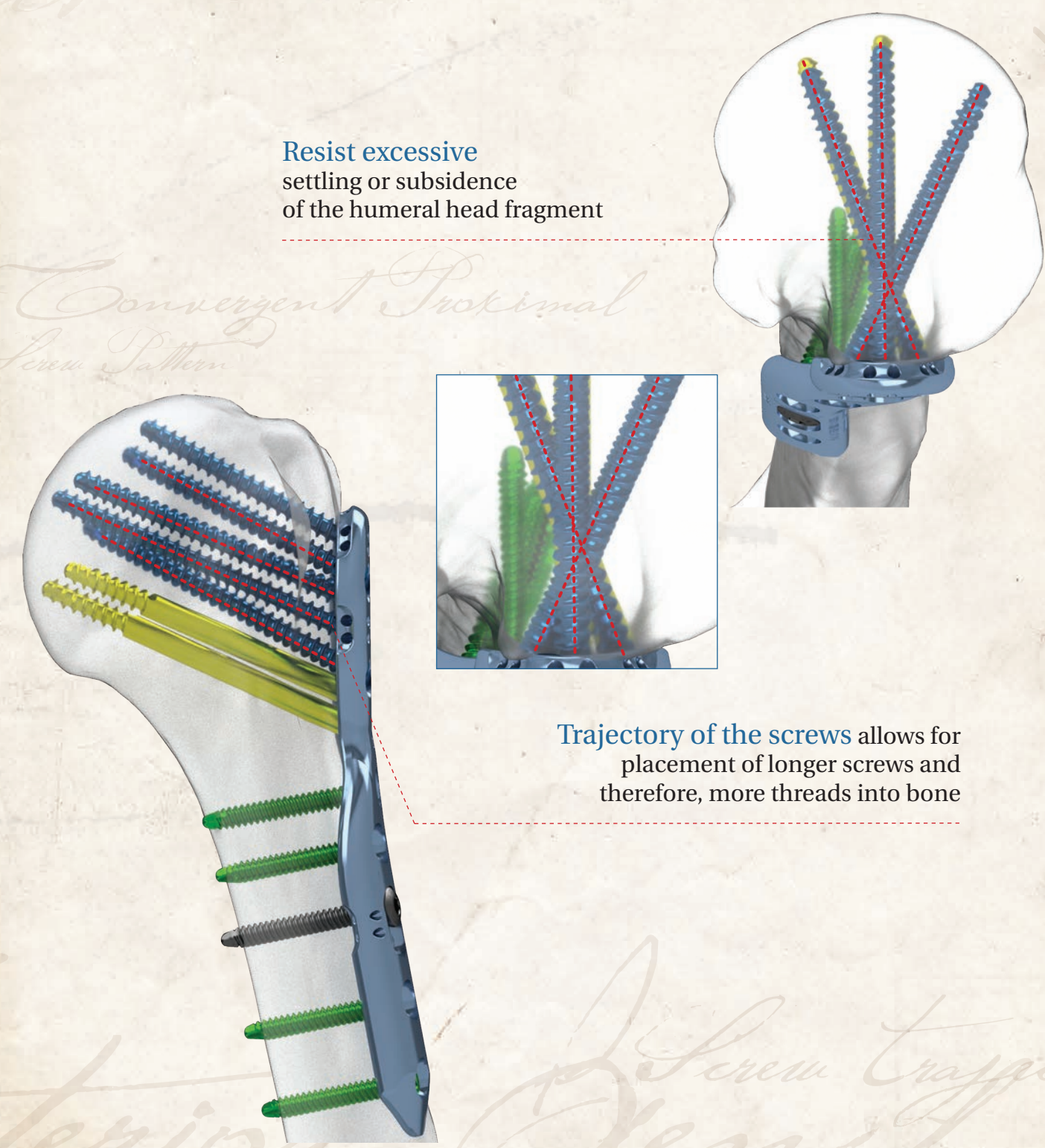
# Cross Trajectory

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

- Screw patterns allow for anatomical diversity.

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.

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

130° Distal fitting option to significantly decrease the risk of subacromial impingement

Implant First, Suture Last Suture holes

Proximal Screws locking with fully threaded and partially threaded options

*Low Profile Plates*



# Highlights of the 95°

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

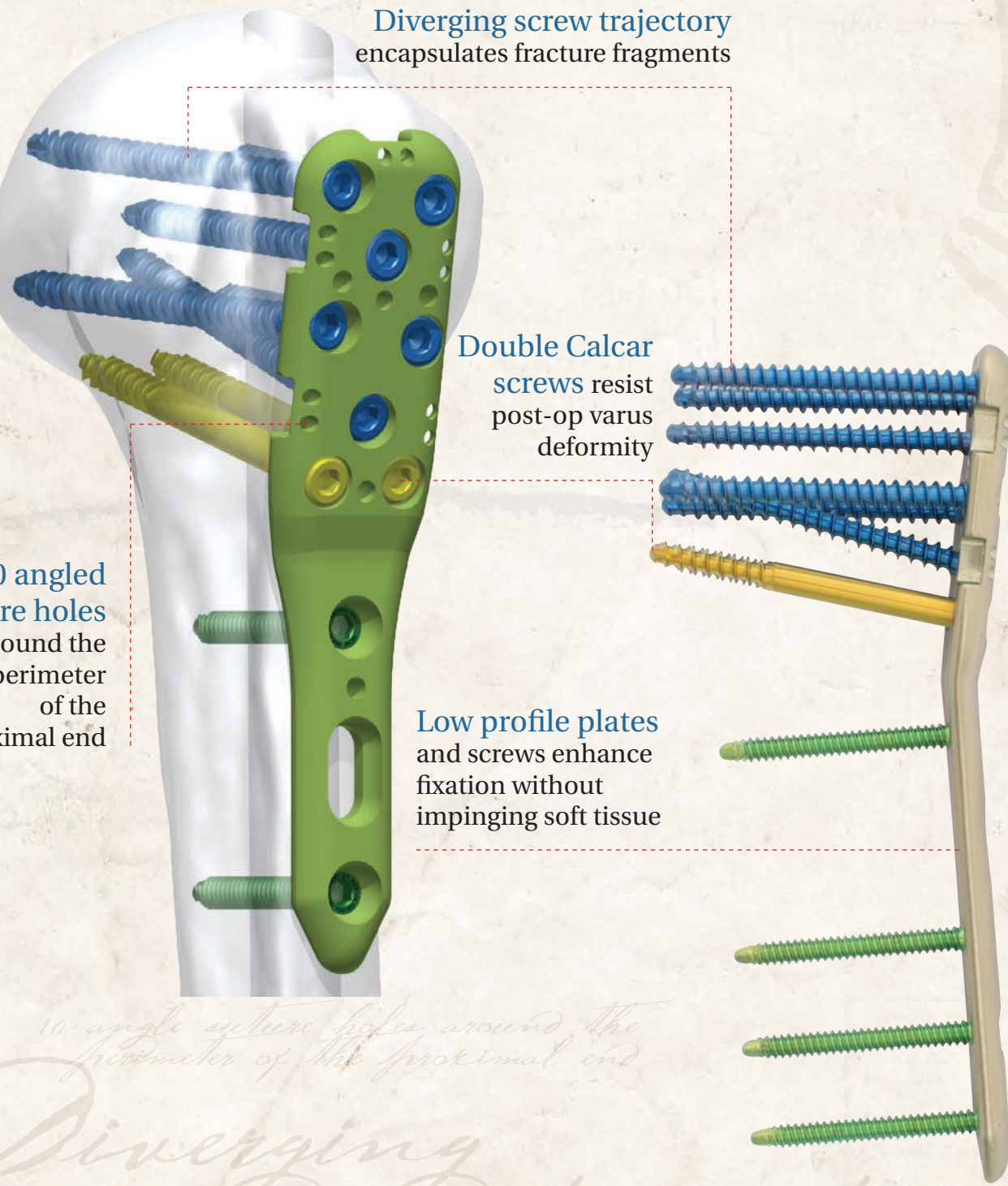
*Low profile plates and screws advanced fixation without impinging soft tissue*

Diverging screw trajectory encapsulates fracture fragments

Double Calcar screws resist post-op varus deformity

Low profile plates and screws enhance fixation without impinging soft tissue

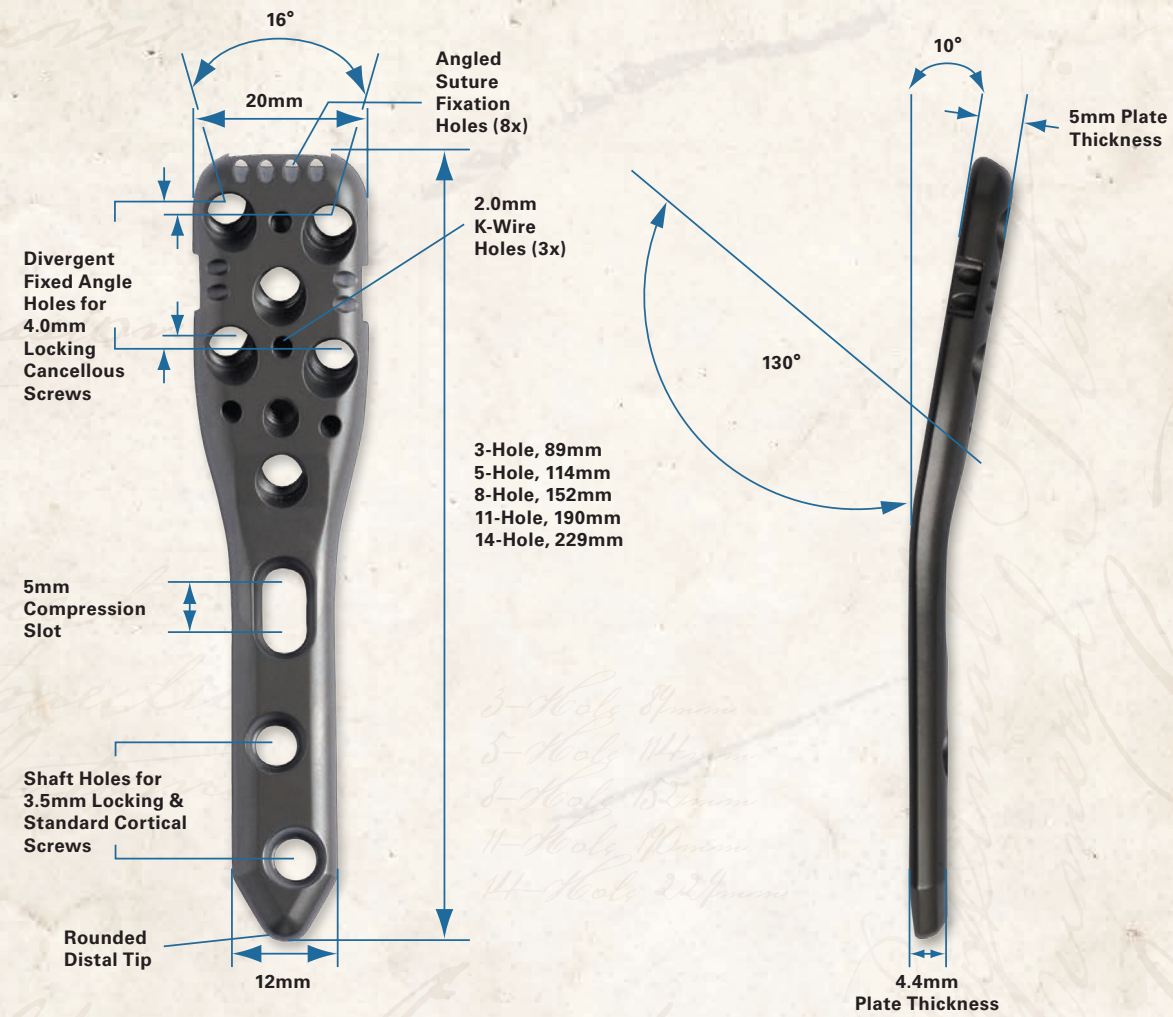
10 angled suture holes around the perimeter of the proximal end



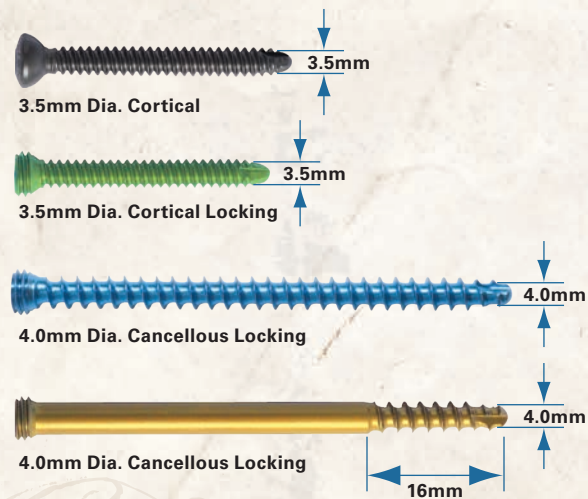
*10 angle suture holes around the perimeter of the proximal end*

*Diverging screw trajectory*

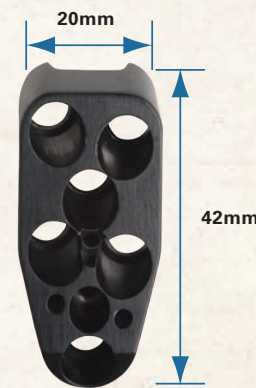
# Implant Features: Proximal Humeral Plate



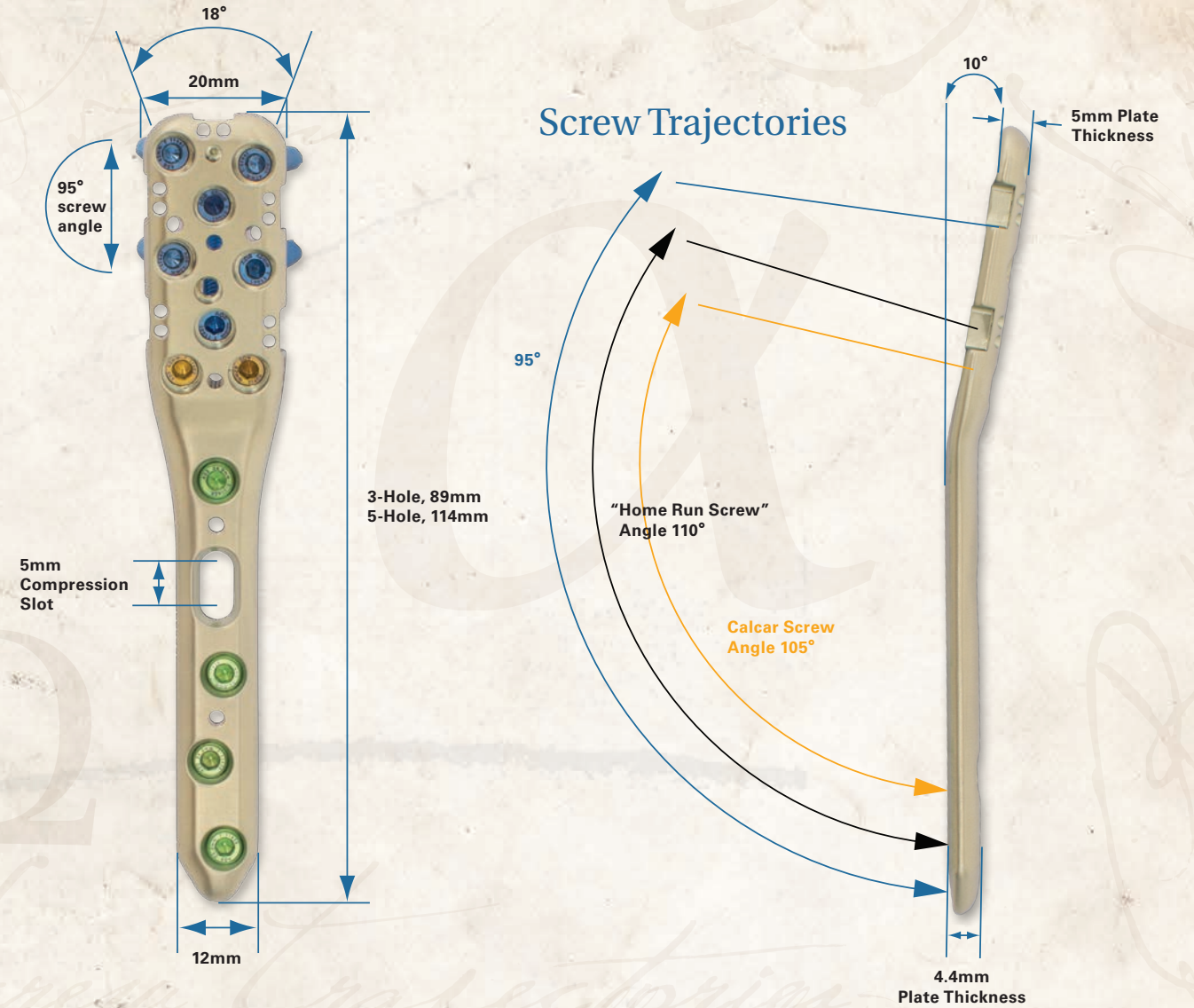
## Screws



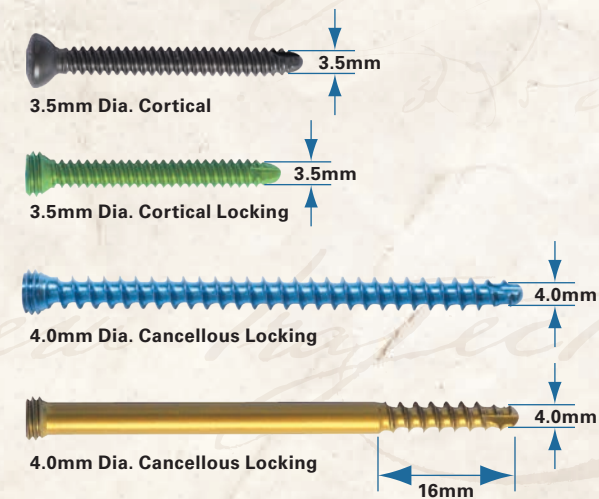
## Alignment Guide



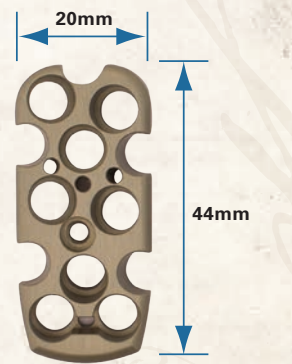
# Implant Features: 95° Proximal Humeral Plate



## Screws

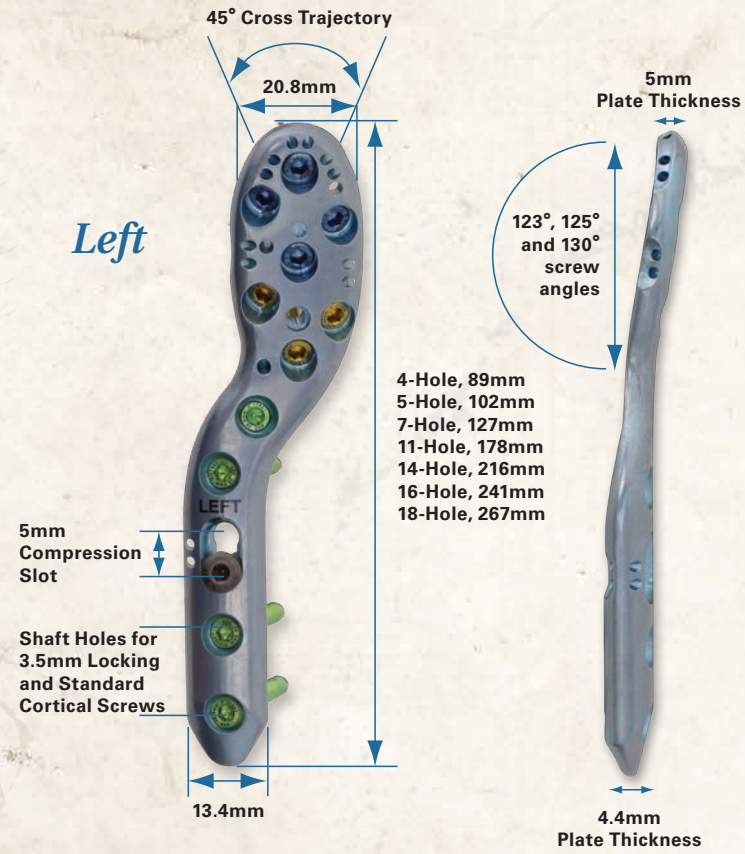


## Alignment Guide

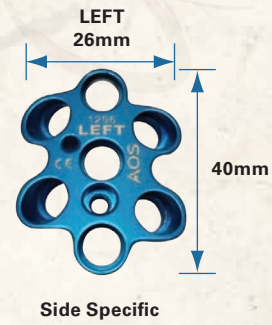


# Implant Features: Alpha Plate

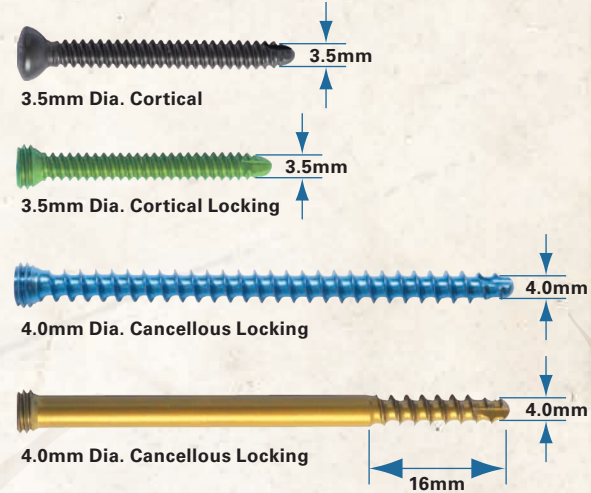
Left



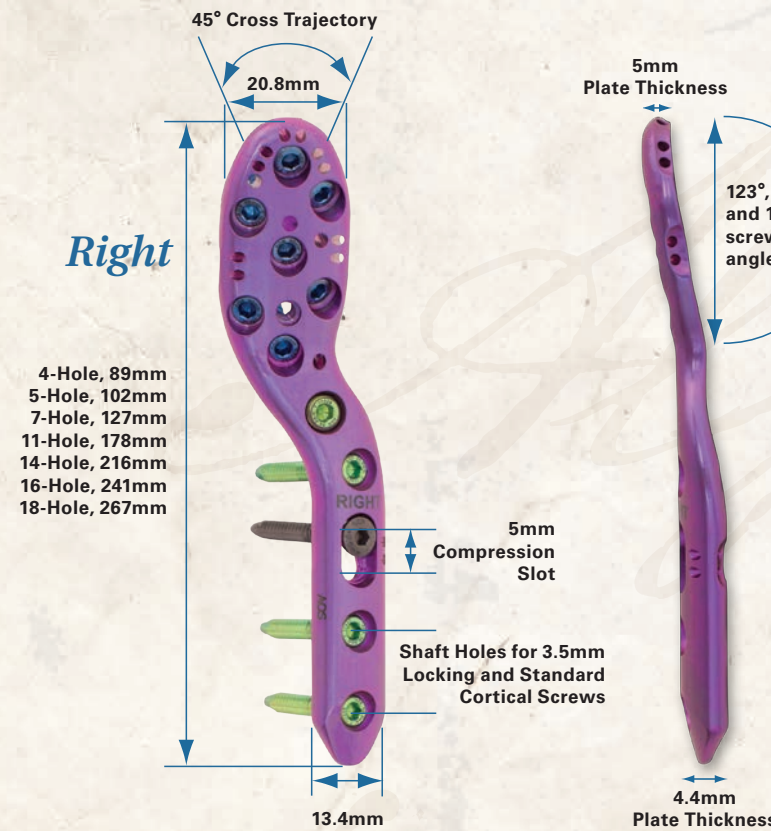
## Alignment Guide



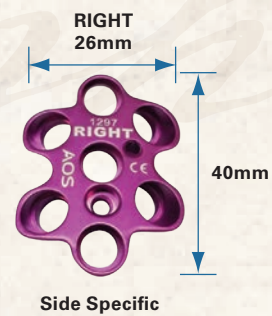
## Screws



Right

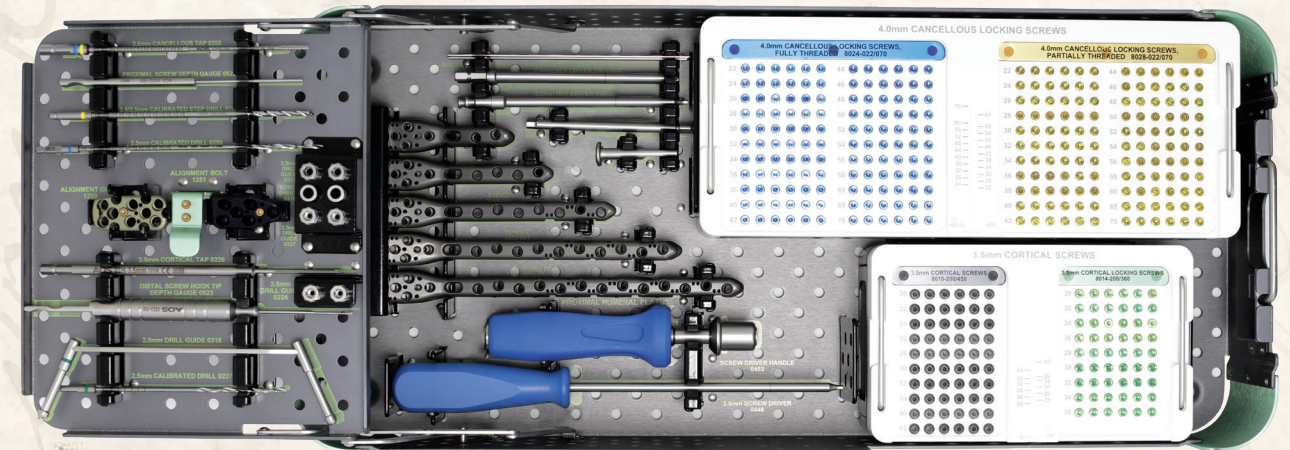


## Alignment Guide



# System Overview

PHP



## ALPHA Plate Expansion Kit

