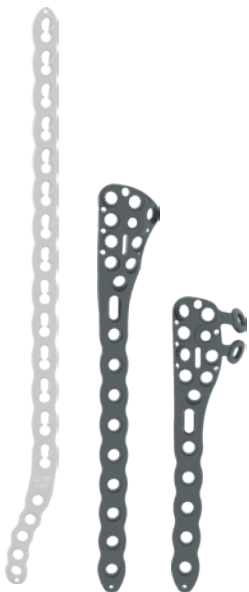


Pangea®

Proximal Humerus Plates

Design rationale



Pangea Proximal Humerus Plates

Design rationale

stryker

Proximal screw row incorporates cross-diverging screw trajectories



Monoaxial hole
For MIS interface



7 beveled and angled 2.0mm suture hole cutouts

Provides flexibility in tendon and tuberosity fixation and to facilitate easier passage of suture after the plate is placed on bone

3 variable angle calcar screw holes

Provides additional flexibility to achieve screw placement in the calcar bone of varying fracture patterns and patient morphologies

Waisted scalloped shape

Reduced potential for periosteal disturbance while maintaining strength of plate and final construct

7mm K-wire slot

Assists with proximal / distal plate positioning

Straight anterior plate contour

Helps to ensure reduction with the bicipital groove

7mm oblong hole

To aid in desired plate placement and serve as an attachment site for targeter



Variable-angle screw holes

Circular universal holes accept non-locking screws, and locking screws with a 30° cone



3.5mm screws

Plate placement

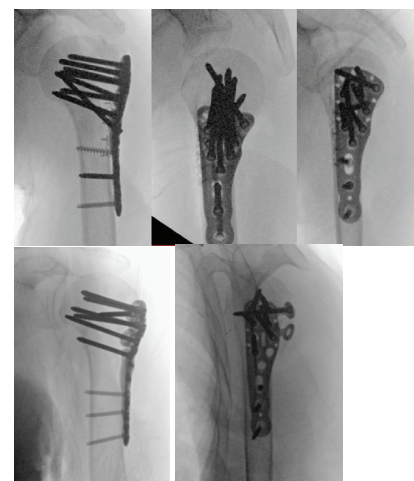


- Correct calcar screw placement should be the primary driver of plate placement, but it is recommended that the plate sits 5-10mm distal to the posterior aspect of the greater tuberosity
- The plate is positioned directly lateral to the bicipital groove which can act as a reference landmark for plate placement
- Helps to ensure the positioning lateral and parallel to the bicipital groove

Posterior plate option

- Designed to improve tuberosity fixation and prevent tuberosity escape
- Designed to increase fixation by providing an option for perpendicular screw placement in the setting of tuberosity fractures
- Extension arms are designed to facilitate in-situ contouring to capture tuberosity fragments

Pangea Proximal Humerus Plate X-rays



Pangea Humerus Plates

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Fit

- To assess the anatomical compliance of the Pangea Proximal Humerus plates, the plates were fitted with the Stryker Implant Fitting Tool (SIFT) onto 741 adult bone models available within the SOMA database. The mean distance between plate and bone was calculated for each plate type. This metric was found to be lower for the Pangea Proximal Humerus plates compared with the Synthes PHILOS plate, meaning the plate fits closer to the bone.*¹
- Pangea Proximal Humerus Plates have shown to capture calcar bone in 100% of patients for 2 calcar screws and in 99.7% of patients for 3 calcar screws (SOMA analysis on 777 CT models)²



Pangea plate

Technical specifications

- Standard plate lengths: 3-18 holes (86-301mm)
- Posterior plate lengths: 3-8 holes (86-161mm)
- Thickness: 3.3mm
- Left and right anatomic plate options
- Drill bits:**
 - Ø2.5mm x 135mm (542020)
 - Ø2.5mm x 215mm (542021)

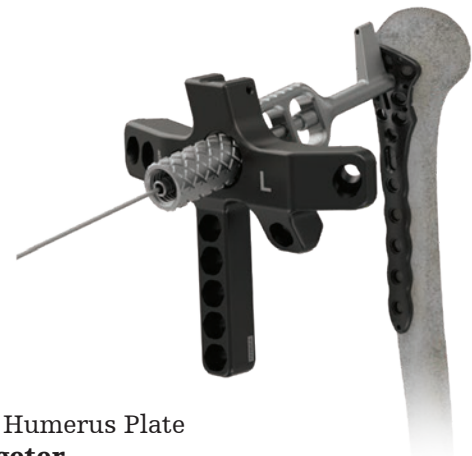


Evidence-based screw trajectories

The most proximal screw row creates a lattice that is designed to span the whole humeral head, if required

Screw platform

Multiaxial locking	3.5		10-120mm
	3.5		10-120mm
Cancellous	4.0		10-100mm
	4.0		10-100mm
Cable plug Washers			



**Proximal Humerus Plate
MIS Targeter**

*These findings are derived from computer-based anatomical modeling using SOMA data and internal analysis and may not be indicative of clinical performance.

References:

- Internal report № D0000262573, Rev AA
- Internal report № D0000270999, Rev AA

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