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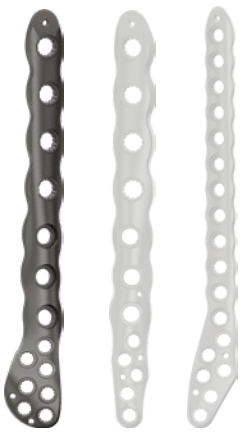
Pangea™

Distal Lateral Fibula Plate

Design rationale



Pangea Distal Lateral Fibula Plate

Design rationale

1.6mm K-wire hole

Variable-angle screw holes

Circular holes that accommodate screws are universal, accepting non-locking screws and locking screws within a 30° cone

Dedicated syndesmotic holes

Offset for fixation and recessed to accommodate buttons.

Anterior distal hole

Designed to allow for capture of syndesmotic avulsion fracture fragment

Distal 2.7mm cluster

Designed to allow for increased fixation options

2 distal K-wire holes

Designed for distal placement

Plate placement

- The distal portion of the plate should be placed so the 2.7mm cluster is centered over the lateral aspect of the metaphyseal fibula (Confirm there is no overhang over the edge of the distal fibula)
- When positioned correctly, the distal cluster should cup the lateral metaphyseal fibula
- The proximal aspect of the plate should be centered on the lateral face of the shaft of the fibula

Pangea Distal Lateral Fibula Plate X-rays*

*Pangea Distal Fibula Operative Technique

Pangea Distal Lateral Fibula Plate

Design rationale

Fit

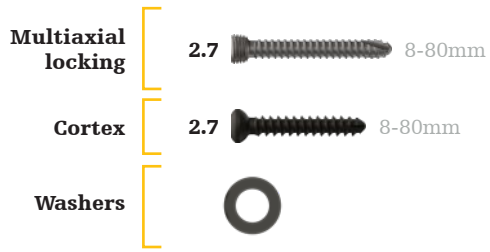
- The anatomical contour of the Distal Lateral Fibula plate is designed to support the surface of the lateral malleolus
- 7 hole distal cluster accepts 2.7mm variable angle locking screws to reduce the overall profile of the construct, reduce the potential for irritation, and allow for capture of articular fragments
- Anatomical plate contour may reduce the potential for malrotation by allowing center placement of the distal screw cluster over the lateral malleolus with shaft placement on the lateral face of the shaft
- Placement and screw trajectories are designed to allow for capture of distal and anterior fragments that avulse with the anterior syndesmotic ligaments
- Variable angle ability of the screws so that surgeons can choose a trajectory for syndesmosis capture based on the fracture, their experience, preference and patient anatomy
- Designed with the use of SOMA: Stryker Orthopedics Modeling and Analytics[1]
- The SOMA bone database contains a collection of 5570 and growing clinical CT scans and contains over 34,600 3D bone models.
- The low profile 2.0mm distal end and 2.6mm shaft are designed to reduce the potential for soft tissue irritation

Technical specifications

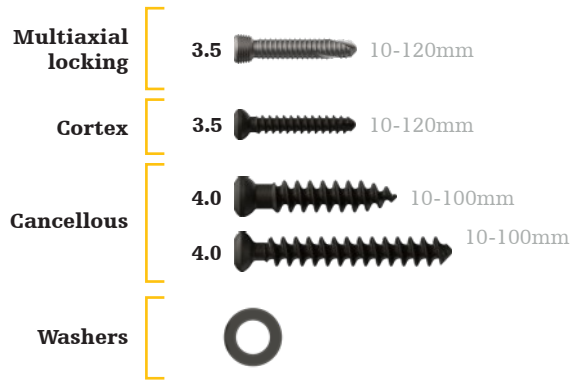
- Standard plate lengths: 4-15 hole (81-235mm)
- Thickness:
  Shaft: 2.6mm
  Distal Cluster: 2.0mm
- Left and right anatomic plate options
- **Drill bits for T8:**
  Ø2.0mm x 135mm (542000(S))
  Ø2.0mm x 175mm (542001(S))
- **Drill bits for T15:**
  Ø2.5mm x 135mm (542020)
  Ø2.5mm x 215mm (542021)

Screw platform

T8 screw platform



T15 screw platform



References:
1. Internal report № D0000262573, Rev AA, Selzach, Switzerland
2. Internal report № D0000124129, Rev AC, Schönkirchen, Germany

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