

Pangea®

Distal Anterolateral Tibia Plate

Design rationale



Pangea Distal Anterolateral Tibia Plate

Design rationale

stryker

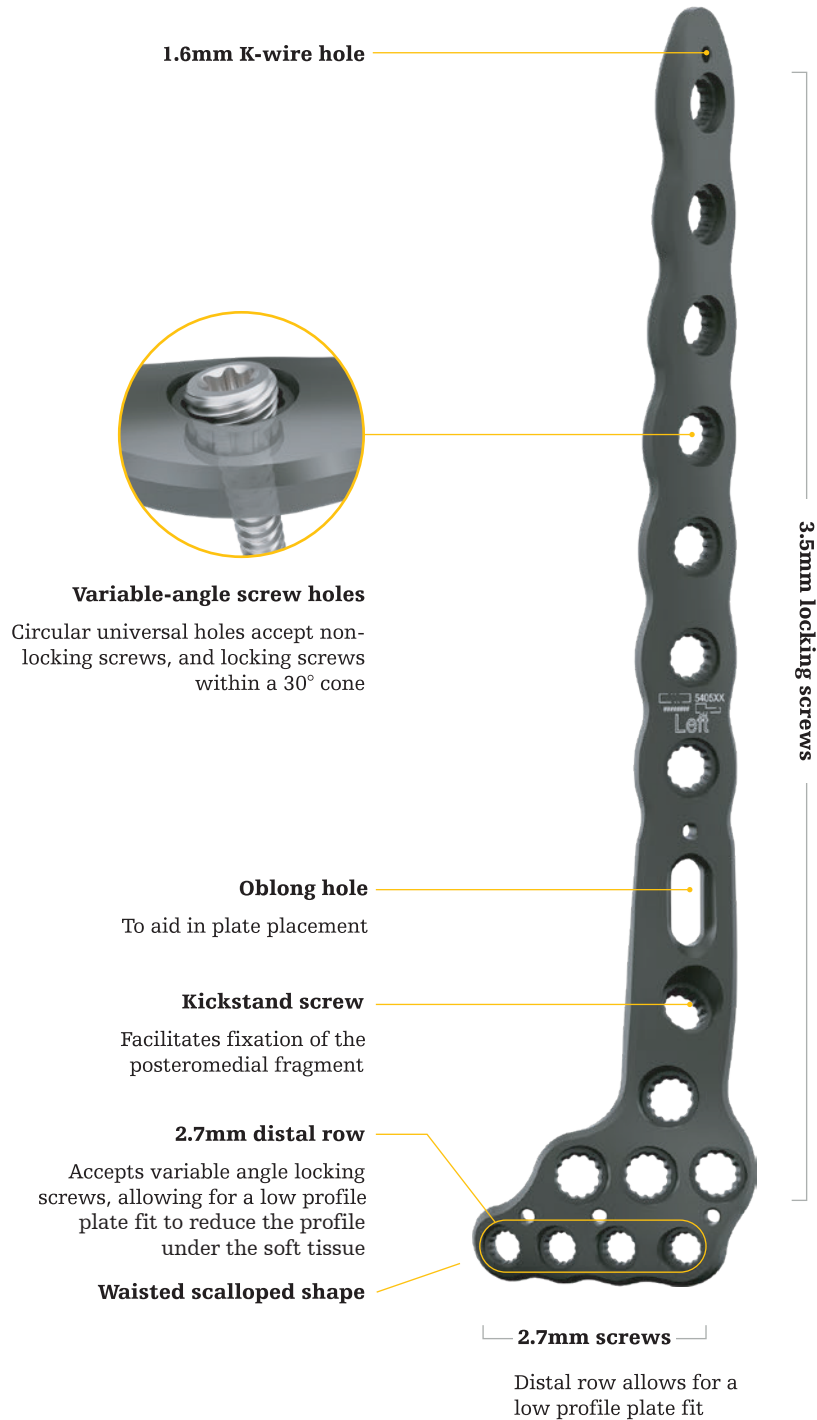


Plate placement



- This plate is placed on the anterolateral surface of the distal tibia.
- Proper position is achieved when the distal end of the plate is adjacent to the articular surface, allowing for the distal screws to support the plafond.

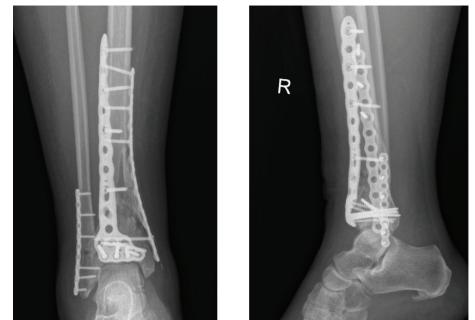


Image from Pangea
Operative Technique¹

Pangea Distal Anterolateral Tibia Plate

Design rationale

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Fit

- Curvature of the Distal Anterolateral Tibia plates allow screw placement immediately proximal to the joint line for rafting while reducing the the profile under the soft tissue
- Shaft is anatomically curved proximally to the joint line for support distally, and designed to allow for a more centered placement of the distal screw cluster
- Designed with the use of SOMA: Stryker Orthopedics Modeling and Analytics²
- To assess the anatomical compliance of the Pangea Distal Anterolateral Tibia plates, the plates were fitted with the Stryker Implant Fitting Tool (SIFT) onto 938 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 Distal Anterolateral Tibia plates compared with the Synthes VA-LCP distal anterolateral tibia plates, meaning the plate fits closer to the bone.*¹

Technical specifications

- Standard plate lengths: 3-18 hole (91-301mm)
- Thickness: Shaft, 3.3mm, Distal 2.9mm
- 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)



Kickstand screw

Kickstand screw with a predetermined angle designed to assist with the fixation of the posteromedial fragment. Variable angle option of the kickstand screw allows further reach for the fixation of medial malleolus fragments.

Screw platform

T15 screw platform

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

T8 screw platform

Multiaxial locking	2.7		8-80mm
Cortex	2.7		8-80mm

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

References:

1. Pangea Distal Tibia Plating Operative Technique. TR-PANG-SURGP-2676450
2. Internal Report № D0000262573, Rev AA

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Pangea[®]

Distal Medial Tibia Plate

Design rationale



Pangea Distal Medial Tibia Plate

Design rationale

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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

Oblong hole

To aid in plate placement

K-wire holes at distal aspect

Single distal variable angle locking screw hole

Designed for unicortical capture of the medial malleolus

3.5mm locking screws

2.7mm screws

Plate placement



- This plate is placed on the medial surface of the distal tibia.
- Position is achieved when the distal end of the plate is over the medial malleolus.

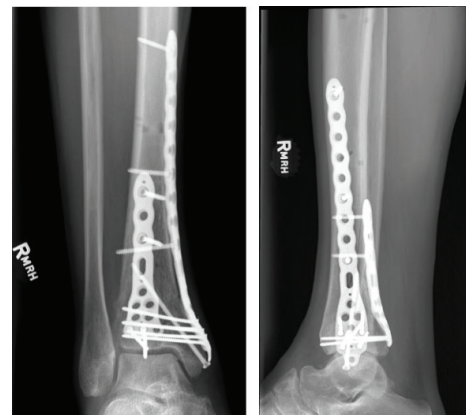


Image from Pangea Operative Technique¹

Pangea Distal Medial Tibia Plate

Design rationale

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Fit

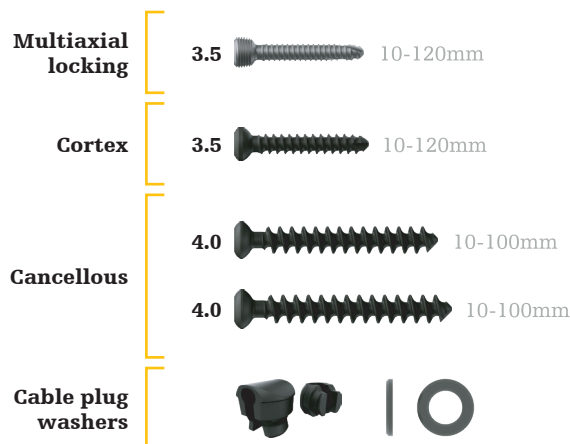
- Distal Medial Tibia plate designed for fixation of varus failure injuries of the distal tibia.
- Designed with the use of SOMA: Stryker Orthopedics Modeling and Analytics.²
- Plate contour is SOMA designed to reduce potential for malrotation of the medial malleolus fragment.²
- To assess the anatomical compliance of the Pangea Distal Medial Tibia plates, the plates were fitted with the Stryker Implant Fitting Tool (SIFT) onto 938 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 Distal Medial Tibia plates compared with the Synthes VA-LCP distal medial tibia plates, meaning the plate fits closer to the bone.*²

Technical specifications

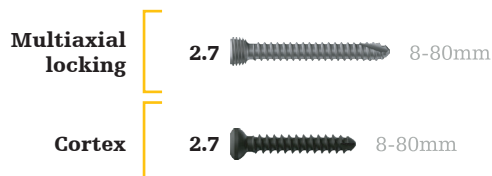
- Standard plate lengths: 3-18 hole (97-307mm)
- Thickness: Shaft 3.3mm, Distal 1.6mm
- Left and right anatomic plate options
- **Drill bits for T15:**
Ø2.5mm x 135mm (542020)
Ø2.5mm x 215mm (542021)
- **Drill bits for T8:**
Ø2.0mm x 135mm (542000(S))
Ø2.0mm x 175mm (542001(S))

Screw platform

T15 screw platform



T8 screw platform



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

References:

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Pangea[®]

Distal Posterior Tibia Plate

Design rationale



Pangea Distal Posterior Tibia Plate

Design rationale

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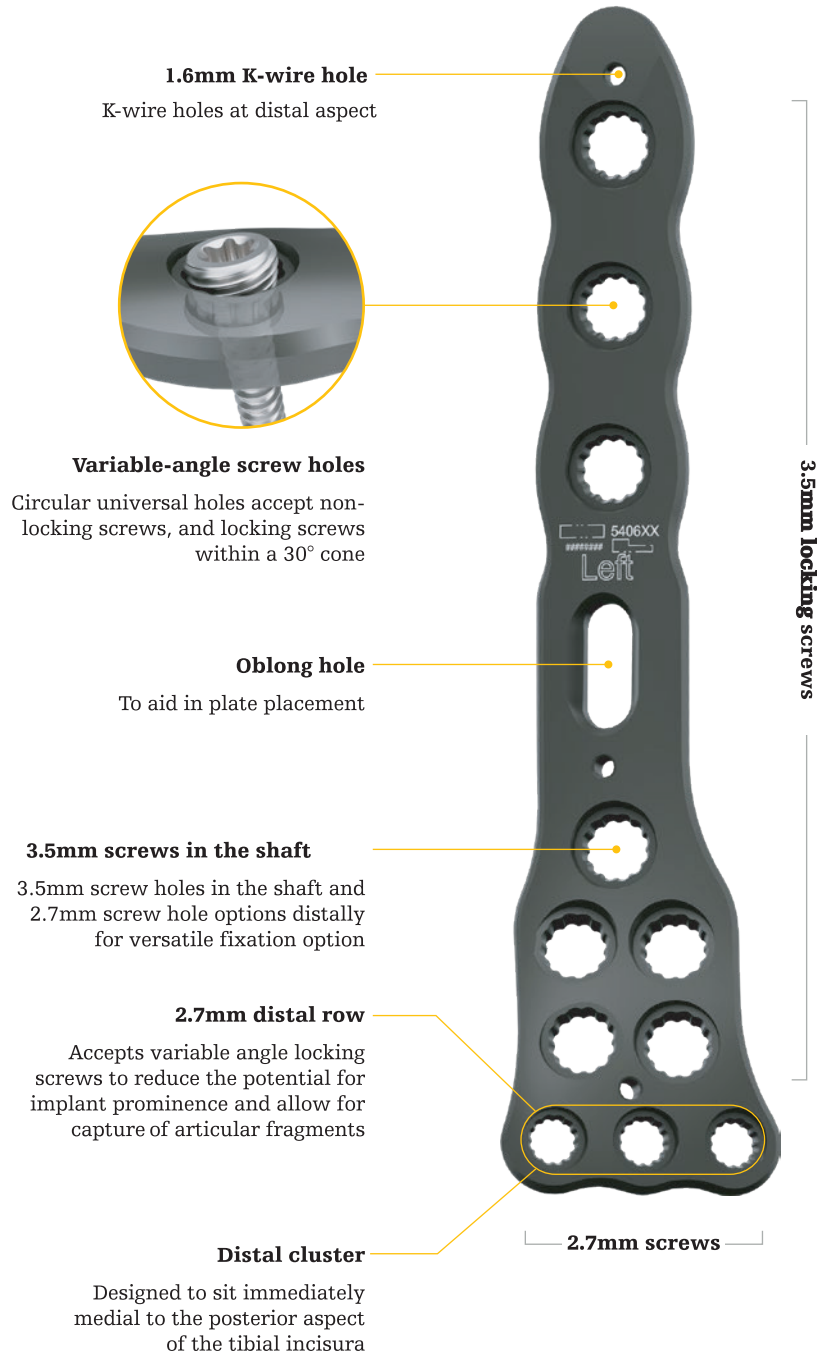
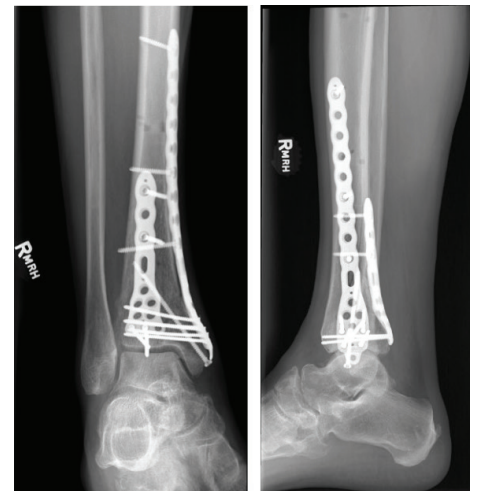


Plate placement



- The plate is placed on the posterior surface of the distal tibia, specifically to sit on the lateral side of the posterior surface over the posterior malleolus.
- Proper position is achieved when the distal end of the plate is adjacent to the articular surface, allowing for the distal screws to support the plafond.
- Contour of the distal plate is designed to allow placement immediately proximal to the joint line for rafting while reducing plate prominence.



Pangea Distal Posterior Tibia Plate

Design rationale

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Fit

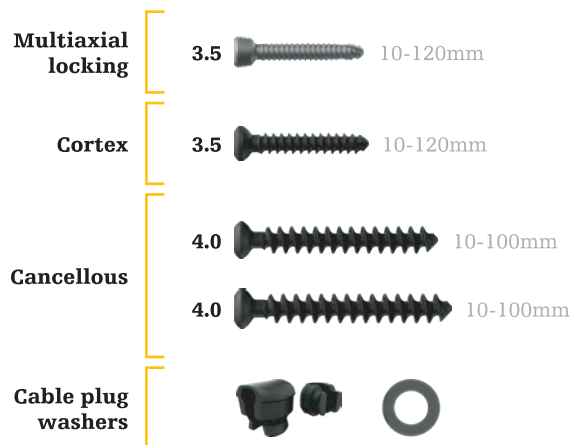
- Distal Posterior Tibia Plate is designed to act as a buttress of the posterior malleolus or posterior fixation of pilon fractures.
- The rotation of the plate is designed to allow for central placement on the tibial shaft while facilitating capture of the posterior malleolus.
- The fit and placement is designed to reduce the potential for irritation of the flexor hallucis longus (FHL tendon).
- Designed with the use of SOMA: Stryker Orthopedics Modeling and Analytics.¹
- To assess the anatomical compliance of the Pangea Distal Posterior Tibia plates, the plates were fitted with the Stryker Implant Fitting Tool (SIFT) onto 938 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 Distal Posterior Tibia plates compared with the Synthes VA-LCP distal tibia plates, meaning the plate fits closer to the bone.*¹

Technical specification

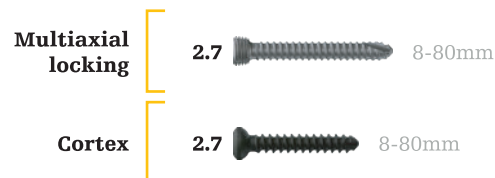
- Standard plate lengths: 2-10 hole (75-187mm)
- Shaft thickness: 3.3mm
- Distal thickness: 2.3mm
- Left and right anatomic plate options
- **Drill bits for T8:**
 - Ø2.0mm x 135mm (542000(S))
 - Ø2.0mm x 175mm (542001(S))
- **Drill bits for T15:**
 - Ø2.5mm x 135mm (542020)
 - Ø2.5mm x 215mm (542021)

Screw platform

T15 screw platform



T8 screw platform



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References:

1. Internal Report N° D0000262573

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