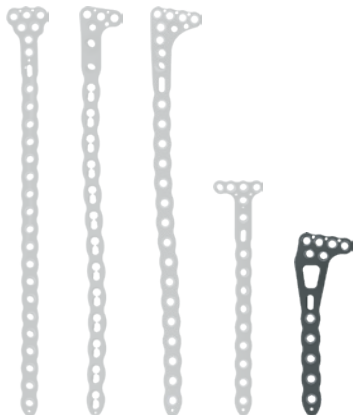


Pangea®

Partial Articular Proximal Tibia Plate

Design rationale



Pangea Partial Articular Proximal Tibia Plate

Design rationale

stryker

2.0mm Proximal Suture holes with undercuts

Allows for suture threading after plate placement and K-wire placement

Proximal row of rafting screws

Designed with four options to support the articular surface of the tibial plateau

Locking or non-locking screws can be used to raft articular depression

Window

Designed to allow tamp placement for articular surface elevation and bone graft insertion after provisional plate application

Oblong hole

To aid in plate placement



Variable-angle screw holes

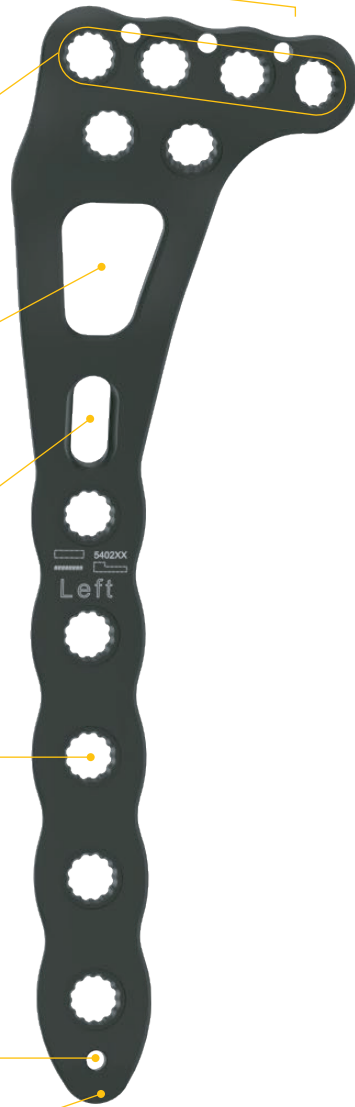
Circular universal holes accept non-locking screws, and locking screws within a 30° cone

2.0mm K-wire hole

To provide temporary fixation

2.2mm plate thickness

Designed to increase patient comfort with a lower plate prominence designed to reduce the profile under the soft tissue



3.5mm screws

Plate placement



- This plate is placed on the lateral surface of the proximal tibia
- This plate is in proper position when the proximal end of the plate is adjacent to the articular surface allowing for the proximal screws to support the joint surface
- This plate is in proper position when it can buttress the split lateral tibial plateau fracture



Pangea Partial Articular Proximal Tibia Plate

Design rationale

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Flexible and malleable

- The low profile (2.2mm) is designed to tightly contour to the shape of the proximal tibia with screw placement to allow buttress fixation of lateral split fragments
- Designed for treatment of Schatzker II fractures
- Under contoured to use the plate physically to provide buttress effect



Window for tamping

Proximal window for optional tamping, fracture visualization, and bone grafting after the plate is applied. Tamps are provided in Pangea instrument trays.

Technical specification

- Standard plate lengths: 3-6 holes (85-127mm)
- Thickness: 2.2mm
- Left and right anatomic plate options
- **Drill bits:**
 - Ø2.5mm x 135mm (542020)
 - Ø2.5mm x 215mm (542021)

Screw platform

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



References:

1. Pangea Tibia Plating Operative Technique. TR-PANG-SURGP-2676400

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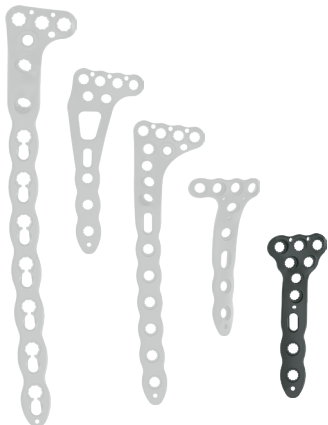
Manufacturer:

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Bohnackerweg 1
2545 Selzach, Switzerland
stryker.com

Pangea®

Proximal Medial Tibia Plates

Design rationale



Pangea Proximal Medial Tibia Plates

Design rationale

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Triangular head shape

Proximal surface allows for a buttressing surface and 7 screw hole options for proximal fixation



Variable-angle screw holes

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

2.0mm K-wire hole

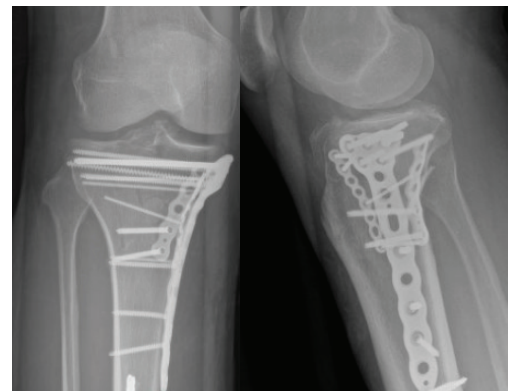
To provide temporary fixation

3.5mm locking screws

Plate placement



- This plate is designed for proximal tibial fractures requiring plate fixation on the medial side
- This plate is designed to be placed straight medial, but allows some anterior and posterior positioning flexibility
- Suggested for use as a single implant for medial fractures, or a supplemental medial fixation in bicondylar fractures



Pangea Proximal Medial Tibia Plates

Design rationale

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Fit

- Proximal Medial Tibia Plate is designed for partial articular medial plateau fractures and used for adjunctive fixation of medial plateau fragments in bicondylar fractures.
- Designed with the use of SOMA: Stryker Orthopedics Modeling and Analytics.¹
- To assess the anatomical compliance of the Pangea Proximal 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 Proximal Medial Tibia plates compared with the Synthes VA-LCP medial tibia plates, meaning the plate fits closer to the bone.*¹

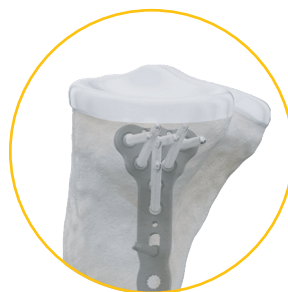
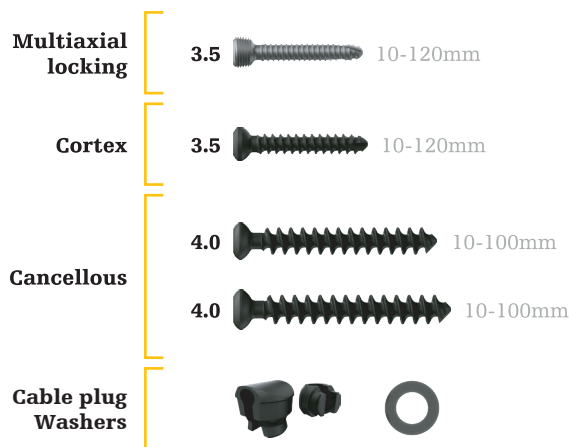
Technical specifications

- Standard plate lengths: 4-22 holes (72-324mm)
- Thickness: 3.3mm
- Left and right anatomic plate options
- **Drill bits:**
 - Ø2.5mm x 135mm (542020)
 - Ø2.5mm x 215mm (542021)

Variable angle trajectory

Variable angle trajectories of the proximal screw cluster in a 30° cone can potentially avoid screw collision.

Screw platform



Predetermined trajectory

Screws in the predetermined trajectory.

*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. Schmidt W, LiArno S, et al. Stryker Orthopaedic Modeling and Analytics (SOMA): A Review. Surg Technol Int. 2018;32:315-324.
2. Internal Report № D0000262573, Rev AA

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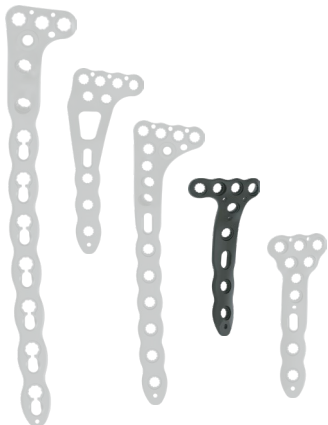
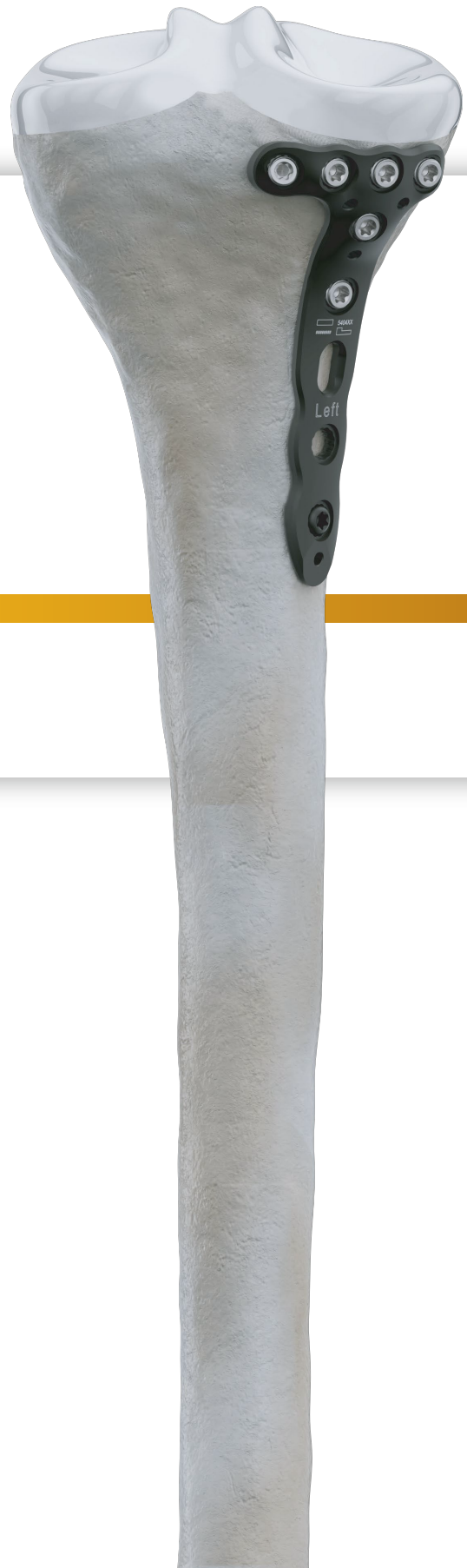
Manufacturer:

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Bohnackerweg 1
2545 Selzach, Switzerland
stryker.com

Pangea®

Proximal Posteromedial Tibia Plate

Design rationale



Pangea Proximal Posteromedial Tibia Plate

Design rationale

stryker

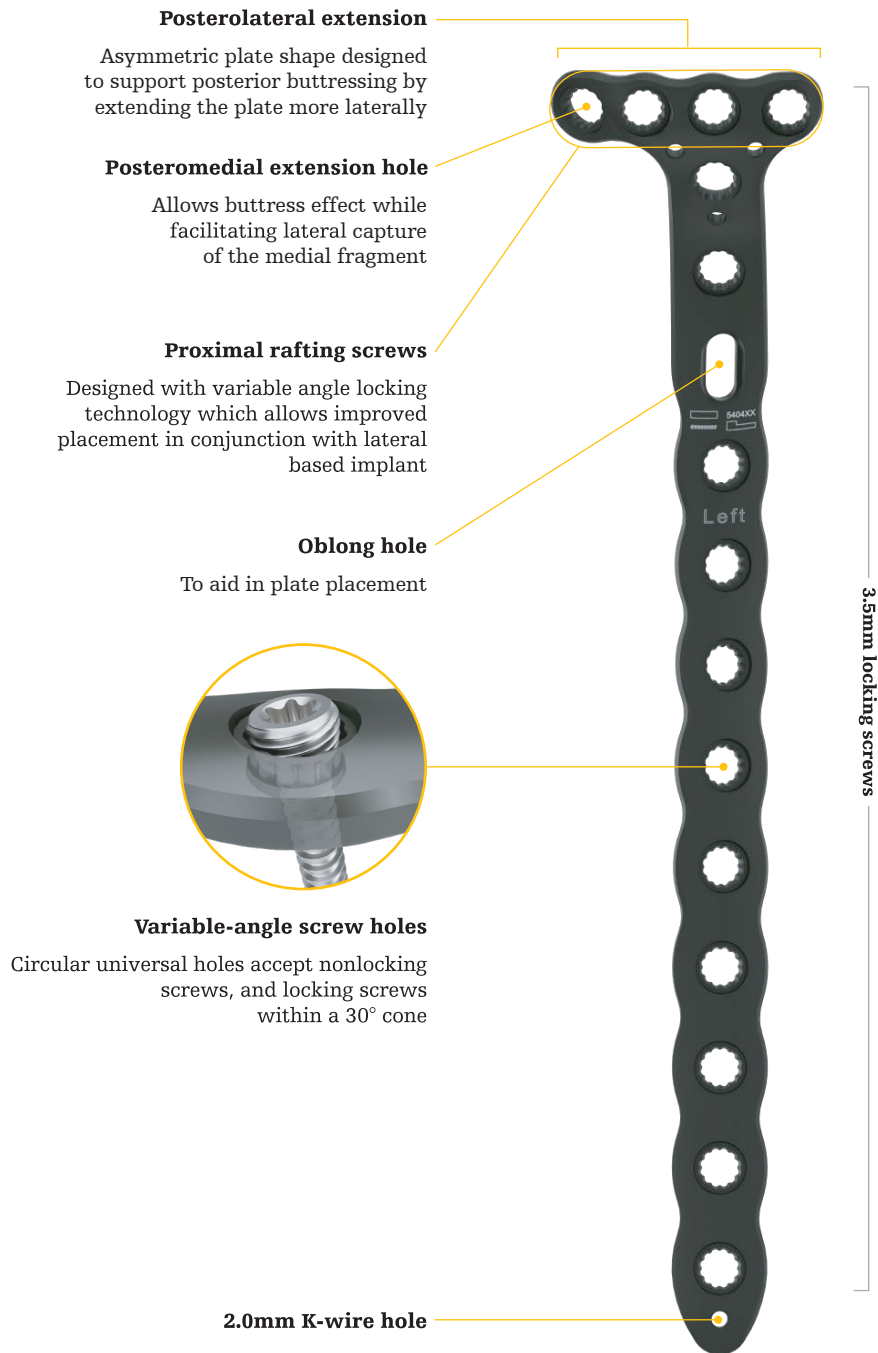


Plate placement



- This plate is designed to be used for a medial coronal shear fracture of a Schatzker VI
- Plate position as well as screw options facilitate the use with Pangea proximal lateral tibia plates
- This plate sits on the posterior medial side and wraps around posteriorly



Image from Pangea Operative Technique¹

Pangea Proximal Posteromedial Tibia Plate

Design rationale

stryker

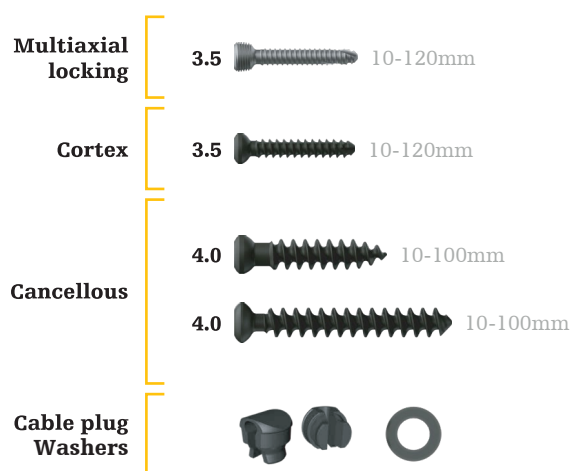
Fit

- Proximal Posteromedial Tibia Plate is designed to address both partial articular medial plateau fractures as well as support medial fracture fragments associated with bicondylar fractures
- The posterolateral extension is designed to support more lateral posterior buttressing
- Designed with the use of SOMA: Stryker Orthopedics Modeling and Analytics²
- To assess the anatomical compliance of the Pangea posteromedial 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 Proximal Posteromedial Tibia plates compared with the Synthes LCP medial Proximal Tibia plates, meaning the plate fits closer to the bone.*²

Technical specifications

- Standard plate lengths: 4-12 hole (68-180mm)
- Thickness: 3.0mm
- Left and right anatomic plate options
- **Drill bits:**
 - Ø2.5mm x 135mm (542020)
 - Ø2.5mm x 215mm (542021)

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:

1. Pangea Tibia Plating Operative Technique. TR-PANG-SURGP-2676400
2. Internal Report № D0000262573, Rev AA

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