

Pangea®

Femur Reconstruction
System

Lateral NPC Plate

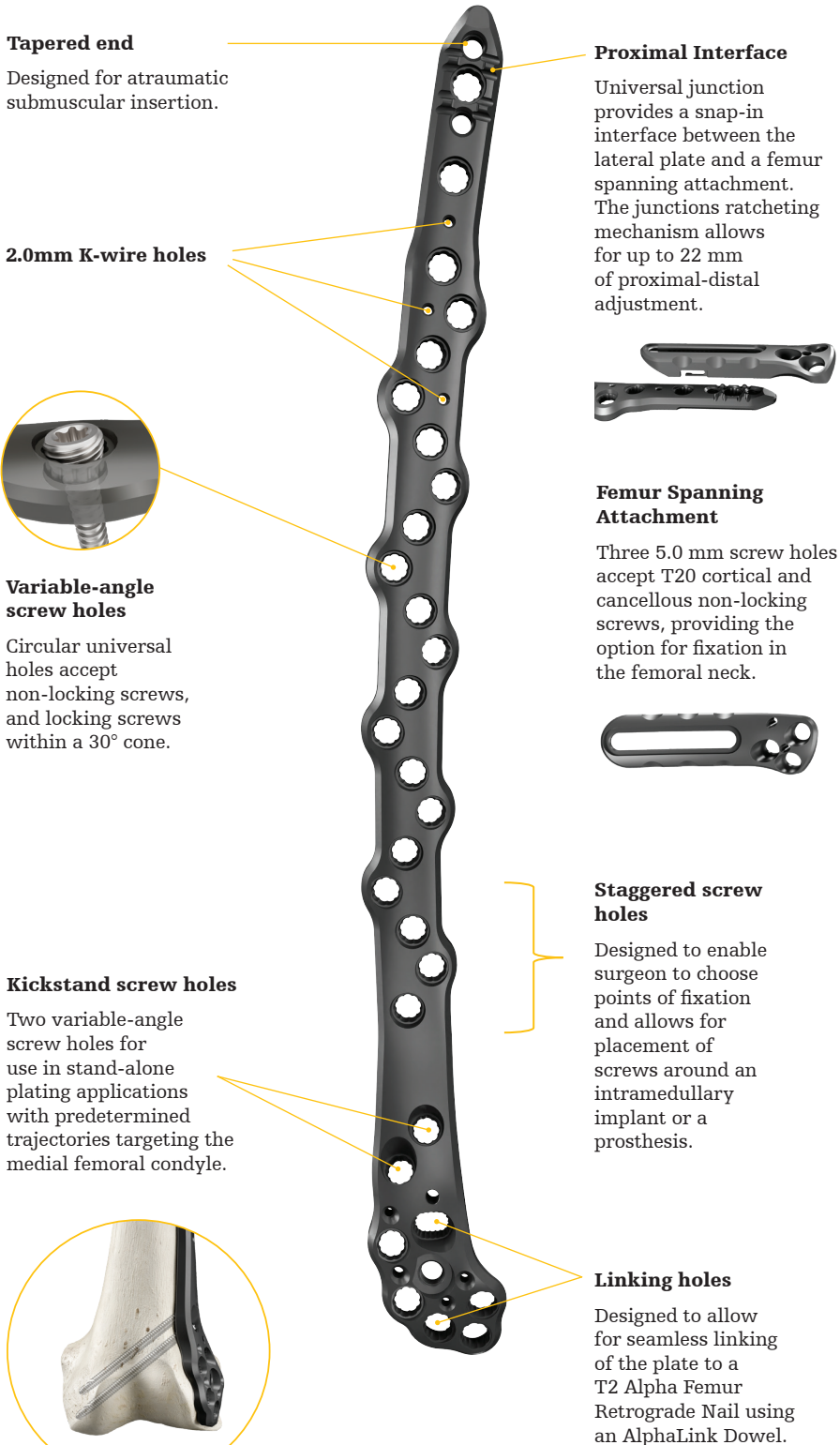
Design rationale



Pangea Femur Reconstruction System

stryker

Lateral NPC Plate design rationale



Metaphyseal screw trajectories

The distal screw cluster provides versatile screw options to allow for metaphyseal fixation for both native and periprosthetic fractures.



When the plate is connected to a T2 Alpha Retrograde Nail via an AlphaLink Dowel, the screw trajectories are specifically designed to avoid interference with the nail construct.



At their nominal trajectories, two of the metaphyseal screws will be anterior to the nail with the other two being posterior to the nail.

Dedicated implants and instrumentation

AlphaLink Dowel (a)

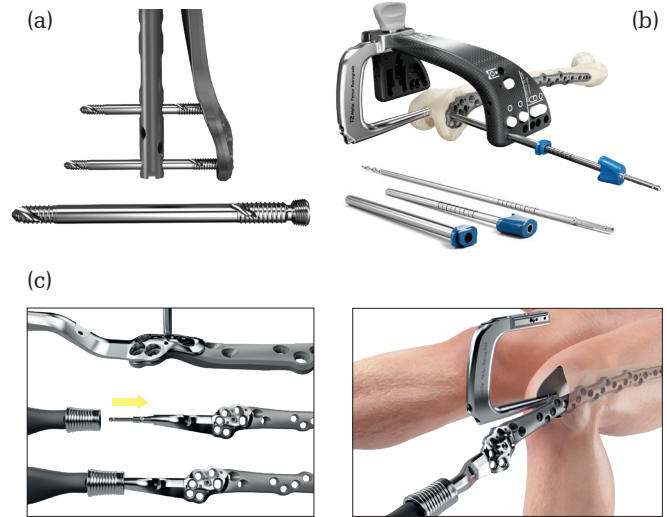
These dowels are used to link the system's lateral plates to a T2 Alpha Femur Retrograde Nail. Cobalt Chrome dowels feature a smooth central shaft to reduce potential friction with the nail, threaded near and far ends to engage cortical bone, and form a definitive plate-dowel interface in the dedicated linking holes of the plate by engaging the titanium of the plates.

AlphaLink Instrumentation (b)

A dedicated pilot drill, drill sleeve, and tissue protection sleeve interface with the T2 Alpha Femur Retrograde targeting device to guide accurate placement of AlphaLink Dowels.

Lateral Plate Inserter (c)

Instrument is designed to connect to the system's lateral plates via a fixation screw and attach to a Delta handle to ease plate insertion.



Fit and applications

- Designed with SOMA (Stryker Orthopedics Modeling and Analytics) which includes a database with CT scans from hospitals across the world and state of the art algorithms that analyze shape variability, bone density, and implant fit.¹
- Designed to link with the T2 Alpha Femur Retrograde Nail when using nail plate combination fixation.
- Linked constructs have increased fatigue strength compared to nailing alone.²
- In addition to linking with a nail, implants can be used for stand-alone plating cases.
- Plates may be used as lateral based fixation for metadiaphyseal fractures that extend into the shaft as well as large bone defects and nonunion.
- May be used in periprosthetic fractures around existing femoral components.

Technical specifications

- Plate Lengths: 160-438mm range (11 different options)
- Plate Thickness: 5mm
- Left and right anatomic options

References:

1. Internal Report No D0000395484, Rev AA
2. Internal Report No D0000370041, Rev AB

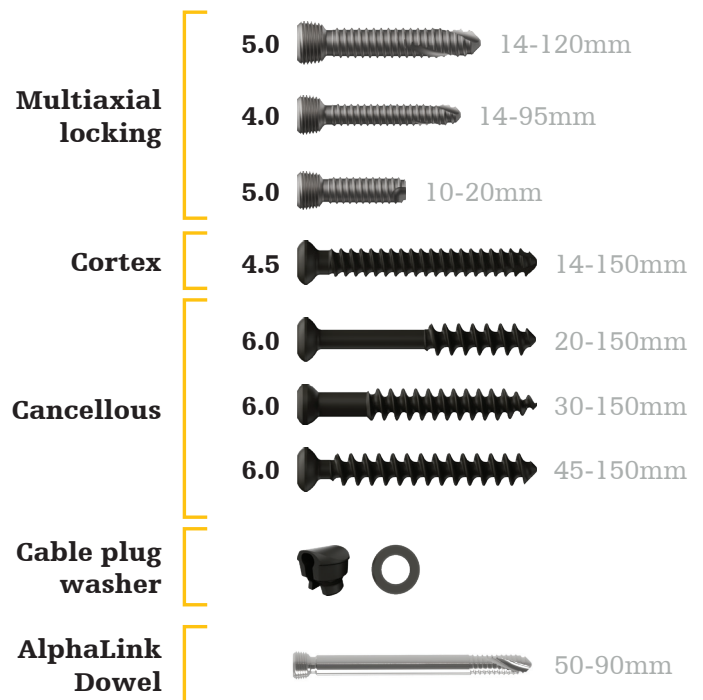
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Screw platform



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