stryker

Pangea[™] Tibia Plating System



Operative Technique

Distal Anterolateral Tibia

Distal Medial Tibia

Distal Posterior Tibia

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This publication sets forth detailed recommended procedures for using Stryker devices and instruments. It offers guidance that you should heed, but, as with any such technical guide, each surgeon must consider the particular needs of each patient and make appropriate adjustments when and as required.

This document is applicable to US and Canada.

The surgeon must advise patients of surgical risks and make them aware of adverse effects and alternative treatments.

↑ WARNING

The patient should be advised that the device cannot and does not replicate a normal healthy bone, that the device can break or become damaged as a result of strenuous activity or trauma and that the device has a finite expected service life.

Removal or revision of the device may be required sometime in the future due to medical reasons.



Indications and contraindications

Pangea Platform indications

The Pangea Platform is indicated for the internal fixation and stabilization of bone fractures, osteotomies, and arthrodesis in normal and osteopenic bone, including:

- Diaphyseal, metaphyseal, epiphyseal, extra- and intra-articular fractures
- Non-unions, malunions, and deformities
- Periprosthetic fractures

The Pangea Platform is also indicated for children (2-12 years) and adolescents (12 – 21 years) for the internal fixation and stabilization of bone fractures of the diaphysis and metaphysis in which growth plates have fused or in which growth plates will not be crossed by implants.

Pangea Tibia Plating System indications

The Pangea Tibia Plating System is indicated for the internal fixation and stabilization of tibia bone fractures and osteotomies in normal and osteopenic bone, including:

- Diaphyseal, metaphyseal, epiphyseal, extra- and intra-articular fractures
- Non-unions, malunions, and deformities
- Periprosthetic fractures

Compatibility with other systems

Components from the Pangea Tibia Plating System may be used with the following systems:

- AxSOS 3
- Stryker Plating System (SPS)
- Dall-Miles cable system
- Pangea Platform

Please remember that the compatibility of different product systems has not been tested unless specified otherwise in the product labeling. Consult instructions for use (www.ifu.stryker.com) for a complete list of potential adverse effects, contraindications, warnings and precautions.

Contraindications

The physician's education, training, and professional judgement must be relied upon to choose the most appropriate device and treatment.

Conditions presenting an increased risk of failure include:

- Any active or suspected latent infection or marked local inflammation in or about the affected area
- Compromised vascularity that would inhibit adequate blood supply to the fracture or the operative site
- Bone stock compromised by disease, infection or prior implantation that cannot provide adequate support and / or fixation of the devices
- Material sensitivity, documented or suspected
- Patients having inadequate tissue coverage over the operative site
- Implant utilization that would interfere with anatomical structures or physiological performance
- Any mental or neuromuscular disorder which would create an unacceptable risk of fixation failure or complications in postoperative care
- Other medical or surgical conditions which would preclude the potential benefit of surgery



Follow the instructions provided in our cleaning and sterilization guide (OT-RG-1). All non-sterile devices must be cleaned and sterilized before use.

Multicomponent instruments must be disassembled for cleaning. Please refer to the corresponding assembly / disassembly instructions.

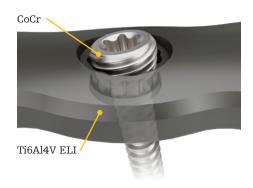
MARNING

Stryker bone screws are not approved or intended for screw attachment or fixation to the posterior elements (pedicles) of the cervical, thoracic or lumbar spine.

Pangea introduction

Pangea overview

Pangea systems provide small and large fragment plating solutions for fracture treatment. Pangea's plate offerings include both utility and anatomical plates to address various fracture patterns and anatomy. The plates and non-locking screws are produced from titanium alloy (Ti6Al4V ELI), whereas the locking screws are produced from cobalt-chrome alloy (CoCr).

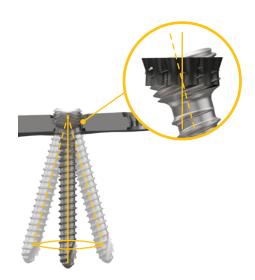


CoCr locking screw and Ti6Al4V ELI plate hole

Variable angle locking technology

Pangea's variable angle locking technology uses a CoCr locking screw, which is harder than the Ti6Al4V ELI plate, allowing for the screwhead's threads to form a definitive locking position in the plate's locking hole by engaging the softer, Ti6Al4V ELI material.

This technology allows the user to aim and lock the screw into the plate within a true 30° cone of the predetermined hole trajectory. The variable angle drill guide provided with the system offers guidance with respect to the limit of the 30° cone. The locking mechanism remains functional for up to three attempts at locking screw insertion.

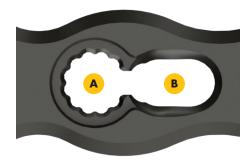


Universal holes offer 30° cone of angulation

Hybrid LC Holes (locking/compression)

Hybrid LC Holes allow for either active compression with the use of a non-locking screw in the compression section of the hole or variable angle locking with the use of a locking screw in the universal section of the hole. If locking is not desired, the universal section of the hole also accepts non-locking screws. Each Hybrid LC Hole is designed to provide up to 2mm of compression.

Note: Hybrid LC Holes are not available with every plate type. Refer to the "Plate details" page for additional information.



A: Universal: For locking or non-locking screws
B: Compression: For non-locking screws only

Hybrid LC Hole

Section 01

Pangea Overview

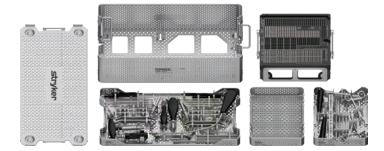
Trays

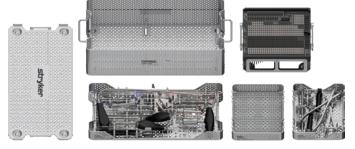
Pangea overview

The Pangea systems require the use of a small or large fragment core tray, which contain the necessary instruments and screws to be used for every case. Plates are contained in separate anatomic plate trays, utility plate trays, or optional tray inserts. Some plates are offered sterile packaged only.

Anatomic and utility plate trays contain plates that will correspond to each color code within the small and large fragment core trays. To complete a case, a surgeon will often need an implant tray and its corresponding core tray.

	Small fragment		Large fragment	
Color coding	Purple	Yellow	Orange	Blue
Screw diameters	2.7mm	3.5 / 4.0mm	4.0 / 4.5 / 6.0mm	5.0mm
Screwdriver type	T8	Т15	120	120





Pangea Small Fragment Core Tray

Pangea Large Fragment Core Tray





Trays

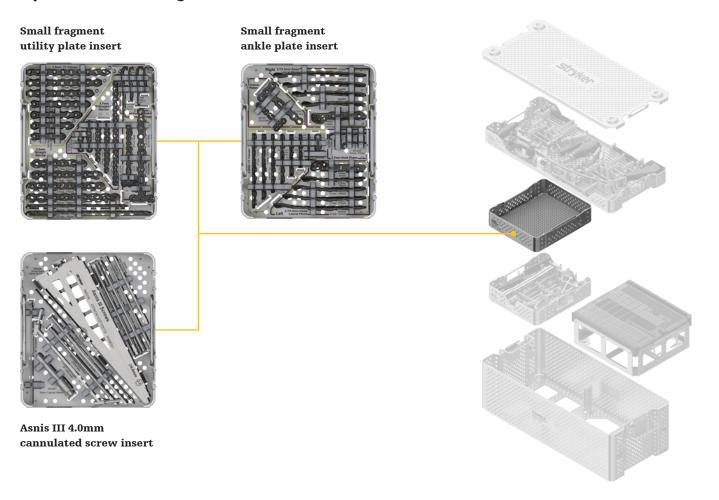
Auxiliary insert and optional inserts

The Pangea small and large fragment core trays are designed to offer users modularity in their set configurations. Each core tray's standard configuration includes an auxiliary insert containing a silicone mat for storage of miscellaneous instrumentation. Listed below are optional inserts that can be ordered separately and placed into the core tray to meet the user's needs.

When using an optional insert with the Pangea small or large fragment core tray, the auxiliary insert may be replaced with one of the optional inserts.

	Auxiliary insert with silicone mat	Small fragment reduction insert	Large fragment reduction insert	Small fragment standard plate insert	Small fragment ankle plate insert	Asnis III 4.0mm cannulated screw insert
Small fragment core tray	✓	✓		✓	✓	✓
Large fragment core tray	✓		✓			✓

Optional insert configurations



Note: Optional inserts may not be available in all markets. Check with your local Stryker sales representative for availability.

Color coding

The Pangea systems are color-coded to allow the user to easily identify the proper instrumentation for a particular plate type or screw type. Each color represents the proper drill, drill guide, or screwdriver for a particular screw diameter. The small fragment is color-coded purple for 2.7mm screws and yellow for 3.5mm and 4.0mm screws. The large fragment is color-coded orange for 4.0/4.5/6.0mm screws and blue for 5.0mm screws.

The small and large fragment core trays offer short and long drill bits to account for various depths of bone stock. These ORIF pilot drills are calibrated for the surgeon to measure depth by referencing the associated drill guide. ORIF pilot drill bits are identified by one colored stripe, while lag screw overdrills have one colored stripe and one black stripe. The drill bit's diameter can be found on the AO quick connect.

	T8 T15 Small fragment		120 Large	e fragment
Screw type	2.7mm cortex 2.7mm locking	3.5mm cortex 3.5mm locking 4.0mm cancellous	4.0mm locking 4.5mm cortex 6.0mm cancellous	5.0mm locking
Color code	Purple	Yellow	Orange	Blue
ORIF pilot drills	(2.0	2.5	3.2	50 (4.3)
Lag screw overdrills	2.7	3.5	4.5	N/A
ORIF pilot drill lengths	Short: 135mm Long: 175mm	Short: 135mm Long: 215mm	Short: 145mm Long: 215mm	Short: 145mm Long: 215mm
ORIF pilot drill calibrations	Short: 0-40mm Long: 0-80mm	Short: 0-40mm Long: 0-120mm	Short:0-50mm Long: 0-120mm	Short: 0-50mm Long: 0-120mm
Drill guides				

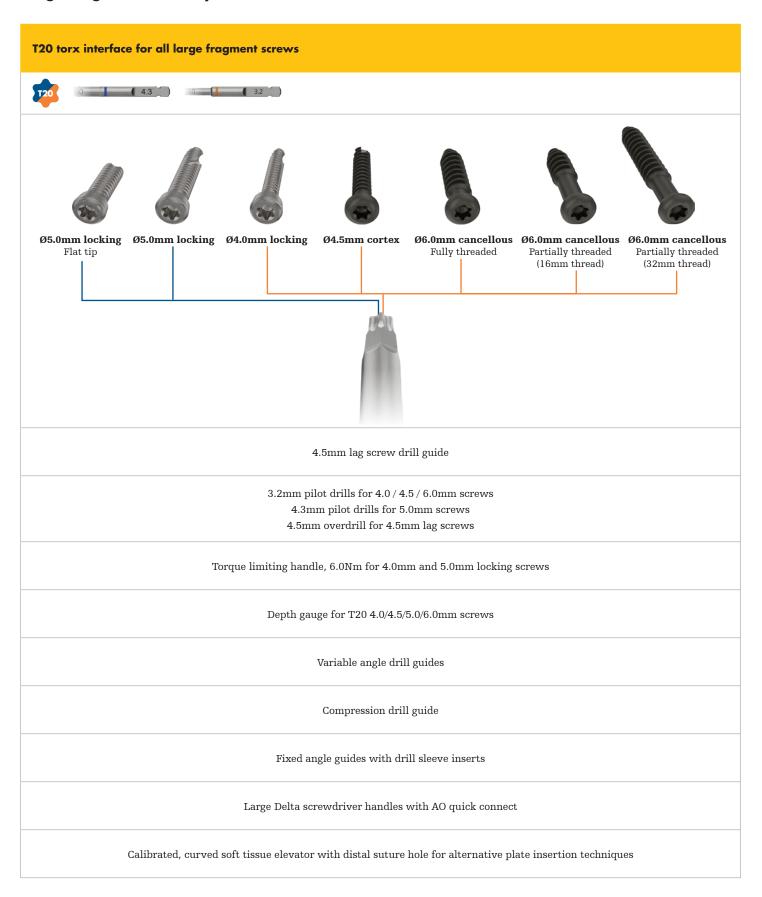
Small and large fragment trays

Small fragment core tray set content - 2.7 / 3.5 / 4.0mm screws

T8 torx interface for all 2.7mm screws	T15 torx interface for all 3.5mm screws and 4.0mm cancellous screws		
78 2.0	115 2.5		
Ø2.7mm locking Ø2.7mm cortex	Ø3.5mm locking Ø3.5mm cortex Ø4.0mm cancellous Ø4.0mm cancellous Partially threaded Fully threaded (Variable thread length)		
2.7mm lag screw drill guide	3.5mm lag screw drill guide		
2.0mm pilot drill for 2.7mm screws 2.7mm overdrill for 2.7mm lag screws	2.5mm pilot drills for 3.5 / 4.0mm screws 3.5mm overdrill for 3.5mm lag screws		
Torque limiting handle, 1.7Nm for 2.7mm locking screws Torque limiting handle, 4.0Nm for 3.5mm locking screws			
Depth gauge for T8 2.7mm screws	Depth gauge for T15 $3.5 / 4.0 \mathrm{mm}$ screws		
Va	riable angle drill guides		
Co	ompression drill guide		
Fixed angle guides with drill sleeve inserts			
Small and large Delta screwdriver handles with AO quick connect			
Calibrated soft tissue elevator with distal suture hole for alternative plate insertion techniques			

Small and large fragment trays

Large fragment core tray set content - 4.0 / 4.5 / 5.0 / 6.0mm screws



Fixed angle drill sleeve

First, the appropriate drill sleeve insert is loosely inserted into the fixed angle sleeve. Next, the entire assembly is inserted into the desired plate hole, which can be confirmed for proper placement with tactile feedback upon insertion. Lastly, turn the drill sleeve insert clockwise to tighten. This fastens the assembly securely to the plate (Fig. 1).

The drill sleeve insert is meant to be hand tightened only. The hex interface on the T8, T15, and T20 screwdriver bits facilitate removal of each respective drill sleeve insert (Fig. 3).

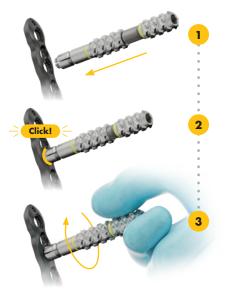


Fig. 1: Fixed angle drill sleeve and insert assembly

Threaded guide post

The T15 and T20 threaded guide posts are intended only for the threaded monoaxial hole in some Pangea plates and serve as the attachment point for MIS targeting capabilities (Fig. 2). Additionally, the threaded guide posts may be utilized as a plate insertion handle, joystick, K-wire sleeve, and drill guide for plates with a threaded monoaxial hole. The threaded guide post is meant to be hand tightened only (Fig. 2).

Note: Threaded monoaxial holes are not available with every plate type. Refer to the "Plate details" page for additional information.

The hex interface on the T20 screwdriver bit facilitates removal of the T20 threaded guide post. The T15 threaded guide post does not have a hex interface and may be removed using the torx portion of the T15 screwdriver bit (Fig. 3).

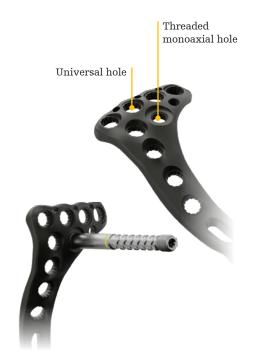


Fig. 2: Threaded guide post placed in threaded monoaxial hole



Fig. 3: Hex interface between screwdriver bit, fixed angle drill insert, and T20 threaded guide post

Variable angle drill guide

The ball-and-cone variable angle drill guides are used in combination with their respective drill bit to determine screw trajectory. The color-coded guide restricts the degree of screw angulation to 15° in any direction resulting in a 30° cone of the predetermined hole trajectory.

When using the ball end of the guide, gently press the guide into the plate's universal or Hybrid LC Hole. The ball end of the drill guide can be gently rotated in these holes using the handle while maintaining 15° of angulation. For small fragment indications, to ensure a precise 15° angulation, use the cone end of the variable angle drill guide by engaging the cone end of the guide into the plate hole.



Variable angle drill guide

Lag screw drill guide

Lag screw drill guides are offered to accommodate 2.7mm, 3.5mm, or 4.5mm lag screws. The color-coded guide features an overdrill sleeve with serrated tip for near cortex drilling and a self-centering pilot drill sleeve to complete the lag screw pilot hole. Lag screws may be placed through a plate or independently.



Lag screw drill guide

Compression drill guide

The color-coded compression drill guide is an eccentric drill guide used to apply compression in plates equipped with Hybrid LC Holes. Arrows are inscribed on the guide and must be aimed towards the fracture site when engaged into the plate's Hybrid LC Hole. This allows the user to properly drill the Hybrid LC Hole and achieve up to 2mm of compression upon insertion of a non-locking screw.



Compression drill guide

Handles

Pangea offers multiple handle options. These options include small and large Delta handles, and three torque limiting handles for locking screws. All handles are equipped with a small AO-coupling.

Screwdriver type	Locking screw Ø	Torque	Torque limiting handles
T8	2.7mm	1.7Nm	
715	3.5mm	4.0Nm	4 Nm
120	4.0mm 5.0mm	6.0Nm	6 Nm

Screwdriver type	Non-locking screw Ø	Small and large Delta handles
T8 T15 T20	2.7mm 3.5mm 4.0mm 4.5mm 6.0mm	## \$CO.
T8 T15 T20	2.7mm 3.5mm 4.0mm 4.5mm 6.0mm	epe 5000 grant

Depth measuring instruments

Pangea systems provide two options for determining screw length.

Drill calibrations

All pilot drills are calibrated to allow the surgeon to determine the appropriate screw length when drilling through either the fixed angle sleeve assembly, threaded guide post, or the ball end of the variable angle drill guide (Fig. 1). The cone end of the variable angle drill guide is not compatible with the calibrated drill bits to determine screw length. The calibrations when read against the selected drill guide measure the distance to the tip of the drill bit.



Fig.1: Measuring screw length using calibrated drill bit

Depth gauge

A depth gauge can be used independently or through a plate hole. Depth gauges correspond with the screw head size i.e., T8, T15, or T20 (Fig. 2).



Fig. 2: T8, T15, and T20 depth gauges

Screw selection

To verify a screw's length, use the screw measurement scale found on the screw rack. The screw tip is placed with its tip against the back stop and its length can be read off the scale (Fig. 3).



Always check the correct postion and length of the inserted screws by fluoroscopy.

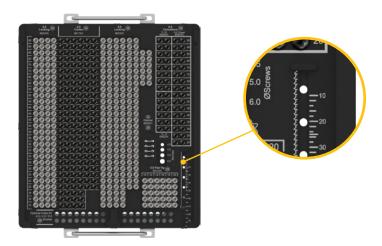


Fig. 3: Screw rack with screw measurement scale

Note: The T8 and T15 depth gauges are color-coded purple and yellow, respectively. The T20 depth gauge is not color-coded and is intended to be used for all T20 screws.

Screw capture sleeve

Pangea offers T8, T15, and T20 screw capture sleeves. The screw capture sleeves are optional devices available to offer efficient screw pick-up, insertion, and removal.

First, the T8, T15, or T20 long screwdriver shaft is inserted into its respective screw capture sleeve. Next, the screw is loaded onto the screwdriver shaft and the knob on the screw capture sleeve is depressed to capture the screw head. Once the screw is captured by the inner sleeve, the knob may be released and the screw is successfully captured. The screw may now be inserted into the pilot hole. Lastly, the screw is released by depressing the button on the end of the device prior to final tightening (Fig. 1).

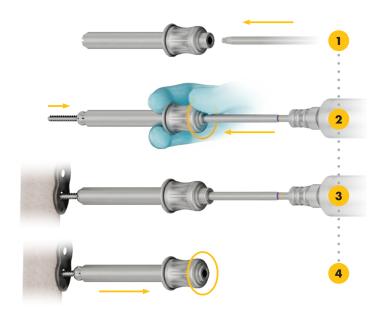


Fig. 1: Screw capture sleeve assembly

Countersinks and Taps

Countersinks are available for all screws sizes to reduce screw head prominence when the screw is used independently from a plate (Fig. 2).

Taps are available for all screw types and diameters. All screws are self-tapping; however, when inserting a screw in hard bone, it is recommended to use the appropriate tap prior to screw insertion (Fig. 3).



Fig. 2: Countersink



Fig. 3: Tap

Temporary plate fixator

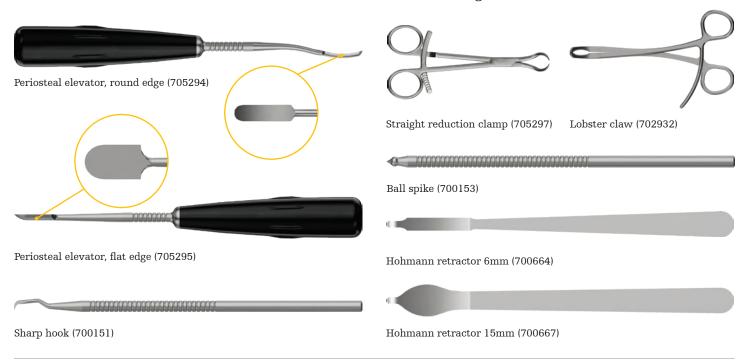
Temporary plate fixators may be used as a provisional plate fixation device and should be limited to the shaft holes of the plate. The temporary plate fixator functions by pushing the shaft of the plate to the bone. The temporary plate fixator is designed with a self-drilling, self-tapping tip for quick insertion into cortical bone (Fig. 4).



Fig. 4: Temporary plate fixator

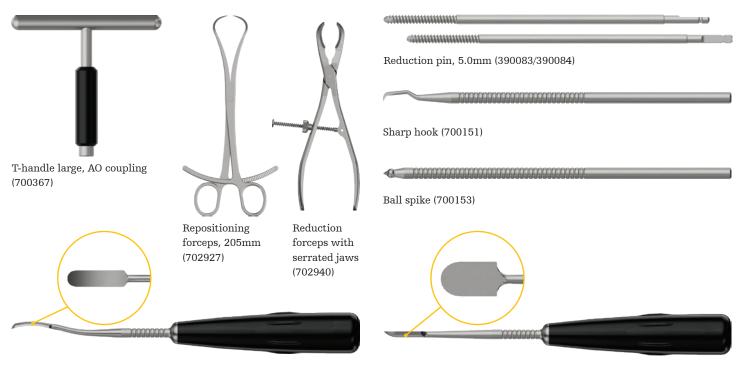
Small fragment reduction instruments and retractors

These instruments facilitate fracture reduction and soft tissue management.



Large fragment reduction instruments and retractors

These instruments facilitate fracture reduction and soft tissue management.



Periosteal elevator, round edge (705294)

Periosteal elevator, flat edge (705295)

Note: Large fragment reduction instruments are contained in an optional large fragment reduction insert tray and may not be available in all markets. Check with your local Stryker sales representative.

Bending instruments and plate cutters

These instruments are available to aid in plate bending and plate cutting. Please refer to the table for the bending and cutting specifics of each instrument.

MARNING

Repetitively bending or rebending the plates may lead to early fatigue failure or inability to lock at a screw hole. Bending the plate at the screw hole risks compromising the locking mechanism.

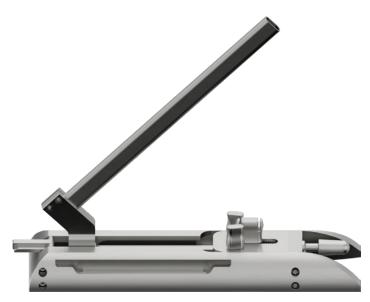


Fig. 3: Table Plate Bender



⚠ WARNING

In most cases the precontoured plate will fit without the need for further bending. However, should additional out of plane bending of the plate be required, refer to the following table for bending devices and respective plate sizes.

Device Type	2.7 plates	3.5 plates	5.0 plates
Plate bender	✓		
Bending irons	✓	*	
Plate cutter	✓		
Table plate bender		✓	~

*Bending irons cannot be used to bend the following 3.5 plates: straight broad, extra articular distal humerus, proximal lateral tibia, or distal medial femur



Fig.1: Bending Iron



Fig. 4: Plate Bender

Section 02

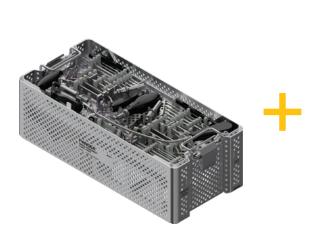
System Overview Pangea Tibia Plating System

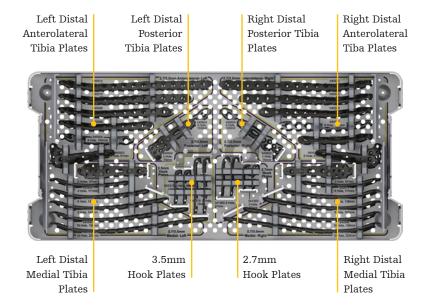
Distal Tibia

Required trays

ORIF distal tibia

This page details the trays required to use the Pangea Distal Tibia Plates.





Pangea Small Fragment Core Tray



Pangea Distal Tibia Plate Tray







Tibia plate offering

Implants - Plates

Distal Anterolateral Tibia Plates





Distal Medial Tibia Plates



^{*} Available sterile packed only

Tibia plate offering

Distal Posterior Tibia Plates







75mm 2 Holes





103mm







131mm







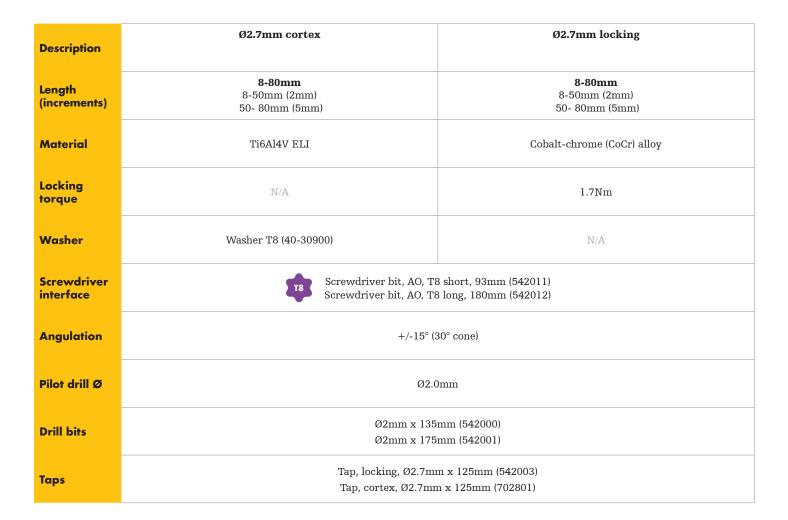
^{*} Available sterile packed only

Screw offering



Implants - Screws

The following screws are suitable for use with the Pangea Tibia Plating System:



Note: Purple represents the color code for the T8 screws. Ensure the drill guides, drills, screwdrivers, and depth gauges correspond to the purple color code.

Screw offering



Implants - Screws

The following screws are suitable for use with the Pangea Tibia Plating System:



Description	Ø3.5mm cortex	Ø4.0mm cancellous Partially threaded (Variable thread length)	Ø4.0mm cancellous Fully threaded	Ø3.5mm locking
Length (increments)	10-120mm 10-50mm (2mm) 50-120mm (5mm)	10-100mm 10-50mm (2mm) 50-100mm (5mm)	10-100mm 10-50mm (2mm) 50-100mm (5mm)	10-120mm 10-50mm (2mm) 50-120mm (5mm)
Material		Cobalt-chrome alloy (CoCr)		
Locking torque		N/A		4Nm
Washer	Washer T15 (663001) N/A			
Screwdriver interface	Screwdriver bit, AO, T15 short, 93mm (542031) Screwdriver bit, AO, T15 long, 180mm (542032)			
Angulation	+/-15° (30° cone)			
Pilot drill Ø	$ ilde{ heta}2.5 ext{mm}$			
Drill bits	Ø2.5mm x 135mm (542020) Ø2.5mm x 215mm (542021)			
Taps	Tap, locking, Ø3.5mm x 125mm (542023) Tap, cortex, Ø3.5mm x 125mm (702802) Tap, cancellous, Ø4mm x 125mm (702803)			

Note: Yellow represents the color code for the T15 screws. Ensure the drill guides, drills, screwdrivers, and depth gauges correspond to the yellow color code.

Plate details

Distal Anterolateral Tibia Plate

- 9 distal screw holes including: 4 universal T8 holes and 5 universal T15 holes
- 1 variable angle kickstand hole with a predetermined trajectory targeting the medial malleolous
- T15 oblong hole for provisional plate fixation and increased non-locking screw trajectory potential in the plane of the oblong hole
- 1.6mm K-wire holes
- Rounded and tapered ends designed for insertion under soft tissue

Screw options



T15 – 3.5mm locking and cortex screws and 4.0mm cancellous screws.



T8 - 2.7mm locking and cortex screws.

Variable angle locking technology

Universal holes that accept both locking and non-locking screws within a 30° cone.

SOMA designed

These plates are designed using Stryker Orthopedics Modeling and Analytics (SOMA) software.¹

- Evidence-based screw hole placement designed to offer a wide range of trajectory options for particular anatomy¹
- Anatomically influenced plate fit, creating contoured plates with left and right specific options¹



Plate details

Distal Medial Tibia Plate

- 10 distal screw holes including: 7 universal T8 holes and 3 universal T15 holes
- T15 oblong hole for provisional plate fixation and increased non-locking screw trajectory potential in the plane of the oblong hole
- 1.6mm K-wire holes
- Rounded and tapered ends designed for insertion under soft tissue

Screw options



T15 – 3.5mm locking and cortex screws and 4.0mm cancellous screws.



T8 - 2.7mm locking and cortex screws.

Variable angle locking technology

Universal holes that accept both locking and non-locking screws within a 30° cone.

SOMA designed

These plates are designed using Stryker Orthopedics Modeling and Analytics (SOMA) software.¹

- Evidence-based screw hole placement designed to offer a wide range of trajectory options for particular anatomy¹
- Anatomically influenced plate fit, creating contoured plates with left and right specific options¹



Plate details

Distal Posterior Tibia Plate

- 8 distal screw holes including: 3 universal T8 holes and 5 universal T15 holes
- T15 oblong hole for provisional plate fixation and increased non-locking screw trajectory potential in the plane of the oblong hole
- 1.6mm K-wire holes
- Rounded and tapered ends designed for insertion under soft tissue

Screw options



T15 T15 – 3.5mm locking and cortex screws and 4.0mm cancellous screws.



T8 - 2.7mm locking and cortex screws.

Variable angle locking technology

Universal holes that accept both locking and non-locking screws within a 30° cone.

SOMA designed

These plates are designed using Stryker Orthopedics Modeling and Analytics (SOMA) software.1

- · Evidence-based screw hole placement designed to offer a wide range of trajectory options for particular anatomy¹
- · Anatomically influenced plate fit, creating contoured plates with left and right specific options1



Section 03

Surgical Protocol Pangea Tibia Plating System

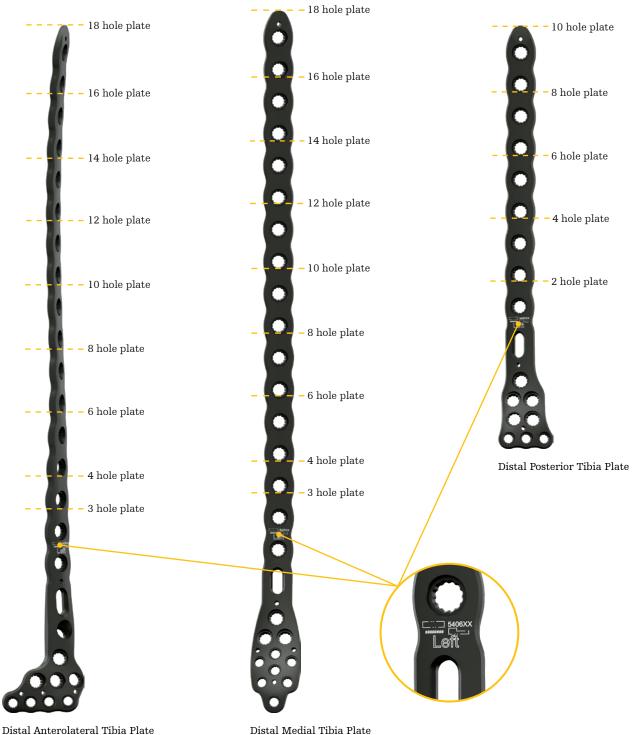
Distal Tibia

Preoperative planning

Plate sizes and laser markings

Selecting the appropriate plate length involves considerations including bone quality, fracture configuration and location, and the type of bone healing expected.

The plate's reference number and left/right orientation is written on the distal end of each plate. Additionally, the number of plate holes, reference number, left/right orientation, and plate length are written on the implant tray.



Distai Meui

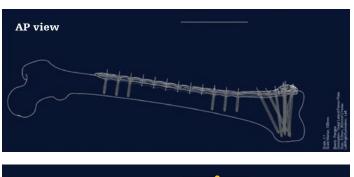
Preoperative planning

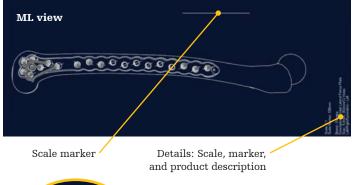
Digital templates

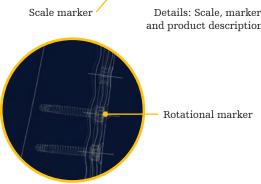
The use of digital templates in association with adequate X-ray/ fluoroscopy or CT scans may assist in the selection of an appropriately sized implant. Pangea digital templates are licensed to template service providers e.g., PeekMed, Sectra AB, Lexi, and Merge Healthcare. Template service providers provide software tools and access to 3D models in order to allow surgeons to perform preoperative planning.



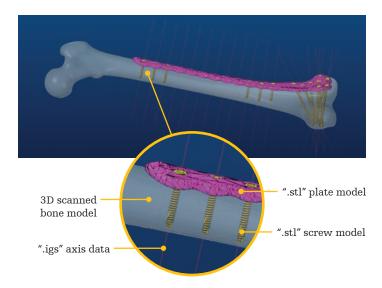
Preoperative planning using 3D planning software







Example of 2D femur templates using ".dxf" files



Example of 3D femur templates using ".stl" and ".igs" files

NOTICE

If digital X-ray images are used, correct magnification has to be verified prior to use.

Note: Digital templates may also be accessed by contacting your local Stryker sales representative.

Surgical approach and instrumentation

Surgical approaches

The approaches described below are common approaches for the insertion of the selected distal tibia plate. These plates can be inserted through a variety of approaches based on surgeon preference, soft tissue, and fracture characteristics.

Distal anterolateral tibia

Surgeons may use a standard anterolateral approach to the distal tibia. When using this approach, the superficial peroneal nerve is subcutaneous and must be protected (Fig. 1).



Fig. 1: Anterolateral approach to the distal tibia

Distal medial tibia

Surgeons may use a standard medial or anteromedial approach to the distal medial tibia. Care must be taken to protect the saphenous vein and saphenous nerve (Fig. 2, 3).



Fig. 2: Anteromedial approach to the distal tibia



Fig. 3: Direct medial approach to the distal tibia

Distal posterior tibia

Surgeons may use a posteromedial or posterolateral approach to the distal posterior tibia. When using a posterolateral approach, care must be taken to protect the sural nerve (Fig. 4, 5).



Fig. 4: Posteromedial approach to the distal tibia



Fig. 5: Posterolateral approach to the distal tibia

Surgical approach and instrumentation

Periosteal elevators

The soft tissue elevators can be utilized to separate or lift the soft tissues from the bone (Fig. 1). The curved soft tissue elevator has been designed to create a pathway for the plate and is calibrated allowing the surgeon to monitor depth or measure plate length (Fig. 2).



Fig. 1: Periosteal elevators

Ref #	Instrumentation
542035	Curved soft tissue elevator, T15
705294	Periosteal elevator, round edge 6mm
705295	Periosteal elevator, straight edge 13mm



Fig. 2: Curved soft tissue elevator, T15

Reduction and plate contouring

Reduction

Indirect fracture fragment reduction can be achieved through traction, manipulation, external fixation, or the surgeon's preferred technique. Direct fragment reduction can be achieved using elevators, clamps, or K-wires. Anatomic reduction of the fracture can be achieved through direct visualization and use of clamps.

The use of K-wires can be helpful in maintaining provisional reduction. Independent lag screws may definitively stabilize articular reduction prior to plate insertion (Fig. 1).



Fig. 1: Reduction of distal tibia

Plate contouring

Should bending of the plate be required, the bending irons (ref 703938) or the table plate bender (ref 702900) may be used. The bending irons are designed to be used as a pair. The slots allow the device to slide over the shaft of the plate for ease of bending (Fig. 2).

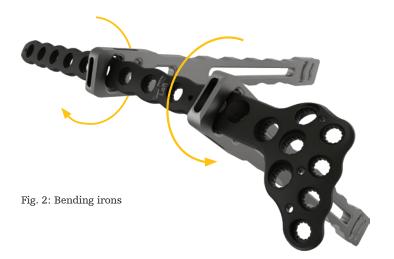


Plate insertion

When a plate insertion handle is desired, the surgeon may use either the T8 or T15 fixed angle sleeve assembly. The T8 or T15 fixed angle sleeve assembly may be attached to any of the plate's respective universal holes (Fig. 1).

Using the T8 or T15 fixed angle sleeve assembly, the surgeon may insert the selected distal tibia plate subcutaneously or submuscularly (Fig. 2). Once the plate has been inserted, the surgeon may use either plate insertion handle as a joystick to adjust plate positioning (Fig.3).

Assembly instructions of the fixed angle sleeve and drill sleeve insert can be found on page 11.



Avoid plate insertion through the muscle to prevent intramuscular vessel disruption. Minimize periosteal disruption while inserting the plate to help preserve bone blood supply.

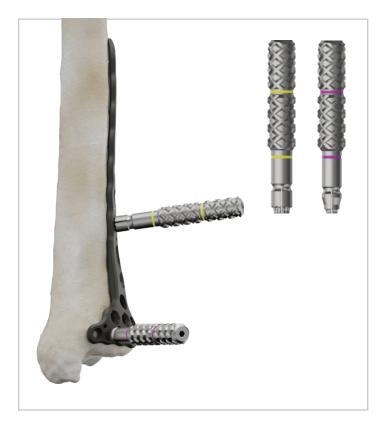


Fig. 1: T8 or T15 fixed angle sleeve assembly used as a plate insertion handle or joystick $\,$



Fig. 2: Submuscular plate insertion using fixed angle sleeve assembly as a plate insertion handle



Fig. 3: Fixed angle sleeve assembly used as a joystick for final plate adjustment ${\bf r}$

Plate positioning

These plates have been designed using SOMA software.¹ In most cases the precontoured plate will fit without the need for additional adjustments.

The plate is in the proper position when the distal end of the plate is adjacent to the articular surface allowing for the distal screws to support the platond.

The lateral view is best for checking the plate position in relation to the joint.

Distal Anterolateral Tibia Plate





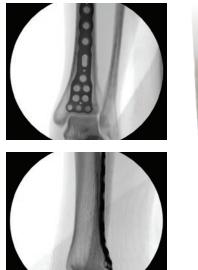




Distal Medial Tibia Plate



Distal Posterior Tibia Plate





Provisional plate fixation

Provisional plate fixation may be achieved using the following:

- Ø1.6mm olive K-wire placed in any of the holes
- Ø1.6mm K-wire placed through the K-wire holes
- Ø2.0mm K-wire placed through the T8 or T15 fixed angle sleeve assembly
- Ø3.5mm cortex screw placed in the oblong hole
- Temporary plate fixator

The temporary plate fixator is designed to provide provisional fixation and can be used to push the shaft of the plate to the bone (Fig. 2). There is a self-drilling, self-tapping tip for quick insertion into cortical bone. Bicortical purchase should be confirmed with fluoroscopy.

In order to protect surrounding soft tissues during pin insertion, the temporary plate fixator sleeve must be preassembled onto the temporary plate fixator pin with the self-drilling tip of the pin being flush with the tip of the sleeve (Fig. 3).

Once the device is inserted through the far cortex (Fig. 4), the threaded outer sleeve resting on the plate is turned clockwise until the desired plate position is achieved (Fig. 5).

If replacing the temporary plate fixator with definitive screw fixation is required, the surgeon must re-drill the hole using the appropriate drill and drill guide. This ensures that the pilot hole for the screw is the proper diameter and within the 30° cone.



Be careful when using sharp instruments such as drills, taps, K-wires and temporary plate fixators or when inserting screws to avoid damage to the soft tissue or vessels by going too far past the far cortex.



Fig. 1: Provisional fixation of Pangea Distal Anterolateral Tibia Plate

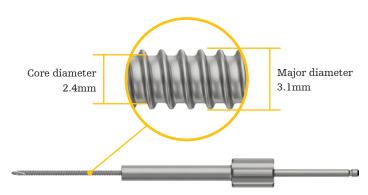
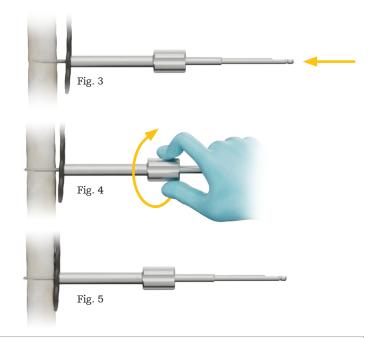


Fig. 2: Temporary plate fixator



Note: Temporary plate fixator is not to be used with T8 holes because the core diameter is too large for 2.7mm screws.

Non-locking screw insertion

Insertion of a non-locking screw is started with the insertion of the appropriate drill guide for the screw hole.

To achieve the predetermined trajectory of the universal holes, use the T8 or T15 fixed angle sleeve with its respective drill sleeve insert (Fig. 1). Assembly instructions of the fixed angle sleeve and drill sleeve insert can be found on page 11. If a variable angle trajectory is desired, use the T8 or T15 variable angle drill guide (Fig. 2).

Next, using the 2.0mm drill bit for 2.7mm cortex screws or 2.5mm drill bit for 3.5mm cortex and 4.0mm cancellous screws, create a pilot hole by drilling through the selected drill guide (Fig. 3). The drill trajectory may be verified under fluoroscopy if required.

The depth may be measured utilizing the associated T8 or T15 depth gauge or the drill bit calibrations.

The selected screw is then inserted into the pilot hole using the T8 or T15 screwdriver bit (Fig. 4).

The T8 or T15 screw capture sleeve may be used to aid in retention between the screw and screwdriver shaft during screw insertion.



Use bi-cortical fixation when possible.



If excessive resistance is felt during insertion, or if the bone is dense, it is recommended to use a tap.



It is recommended to insert the screws by hand. If power tools are used, use those at low speed to avoid improper alignment.



Fig. 1: T8 and T15 fixed angle sleeve assembly for predetermined screw trajectory



Fig. 2: Variable angle drill guide for variable angle drilling



Fig. 3: Drill pilot hole with 2.0mm or 2.5mm drill bit



Fig. 4: Screw placement with appropriate screwdriver

Locking screw insertion

Locking screws can be placed within a 30° cone in any universal screw hole.

Uni-cortical fixation is recommended when bicortical fixation cannot be achieved safely. For example, when bi-cortical fixation will cause screw penetration into the articular surface. In situations of uni-cortical screws, an increased screw count may be needed to obtain sufficient fixation.

To achieve the predetermined trajectory of the universal holes, use the T8 or T15 fixed angle sleeve with its respective drill sleeve insert. Assembly instructions of the fixed angle sleeve and drill sleeve insert can be found on page 11. If a variable angle trajectory is desired, use the T8 or T15 variable angle drill guide (Fig. 2).

Next, using the 2.0mm drill bit for 2.7mm locking screws or 2.5mm drill bit for 3.5mm locking screws, create a pilot hole by drilling through the selected drill guide (Fig. 3). The drill trajectory may be verified with fluoroscopy if required.

The depth may be measured utilizing the associated T8 or T15 depth gauge or the drill bit calibrations.

The selected screw is then inserted into the pilot hole using the T8 or T15 screwdriver bit.

A T8 or T15 screw capture sleeve may be used to aid in retention between the screw and screwdriver shaft during screw insertion.

Use the appropriate torque limiting handle and respective T8 or T15 screwdriver bit to ensure proper seating of the locking screw. The torque limiter will produce an audible "click" when the required torque is achieved (Fig. 4).



Always perform final tightening by hand using the appropriate torque limiter and screwdriver bit as final tightening with the power tool can cause over-torquing or damage to the screw-plate interface, which can lead to breaking or stripping screw heads.



Fig. 1: Fixed angle sleeve for predetermined trajectory drilling

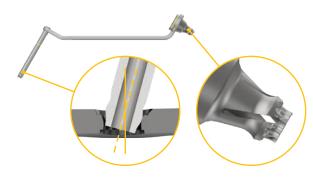


Fig. 2: Variable angle drill guide for variable angle drilling



Fig. 3: Drill pilot hole with 2.0mm or 2.5mm drill bit



Fig. 4: Screw placement with 1.7Nm torque limiter for 2.7mm locking screws and 4.0Nm torque limiter for 3.5mm locking screws

Lag screw technique

Independent lag screw

To insert an independent lag screw, select the appropriate lag screw drill guide for the desired lag screw size. Then use the serrated end of the guide and the appropriate overdrill to drill the near cortex (Step 1a).

Next, insert the self-centering end of the lag screw drill guide into the gliding hole and use the appropriate pilot drill to drill through the far cortex (Step 2a).

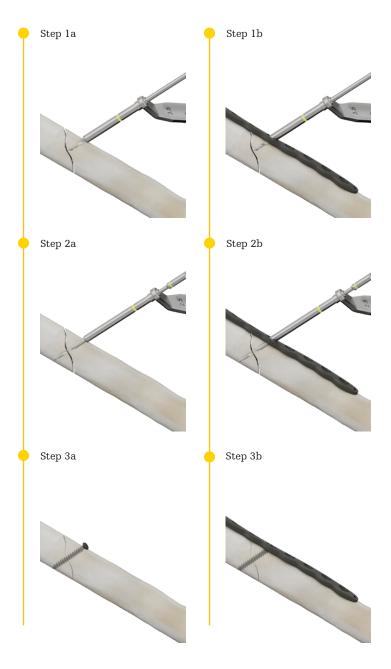
Measure the depth of the hole using the pilot drill or appropriate depth gauge and insert the selected cortex screw. If required, countersink the gliding hole or apply a washer to the screw. Upon screw insertion, this technique will serve to lag the far cortex towards the near cortex, thus applying compression (Step 3a).

Lag screw through plate

To insert a lag screw through a plate hole, use the serrated end of the appropriate lag screw drill guide and its respective overdrill to drill the near cortex through the plate hole (Step 1b).

Next, drill the far cortex with the appropriate size pilot drill by placing either the variable angle drill guide into the plate hole or the self-centering end of the lag screw drill guide into the gliding hole through the plate. When drilling the far cortex using a variable angle drill guide, ensure the trajectory of the pilot drill is co-linear with the gliding hole (Step 2b).

Measure the depth of the hole using the pilot drill or appropriate depth gauge and insert the selected cortex screw. Upon screw insertion, this technique will serve to lag the far cortex towards the near cortex, thus applying compression through the plate. Screw holes in the plate may be populated to complete the construct (Step 3b).



Final constructs

Final fluroscopic check

After final fixation of the plate with all screws, the tibia should be internally and externally rotated under continuous fluroscopy; the true distance of all screws should be inspected in the mortise, AP, and lateral views to ensure none of the screws have penetrated the joint or are prominent.



After the procedure, check that all implants are positioned correctly using an image intensifier.

Implant removal

Removal of the Pangea Distal Tibia Plates is not required in general. The additional surgical trauma and the risks associated with additional anesthesia should be individually outweighed against the potential benefits for every patient.

In the case of implant removal, the scar of the previous incision is (partly) re-opened and the screws and the plate are successively removed.

Final constructs

Final construct examples

Distal Anterolateral Tibia Plate





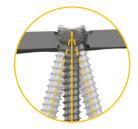


Predetermined trajectory



Screws in the predetermined screw trajectory

Variable angle trajectory



Screw trajectories using variable angle locking to obtain the widest allowable screw trajectory

Distal Medial Tibia Plate







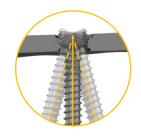


Predetermined trajectory



Screws in the predetermined screw trajectory

Variable angle trajectory



Screw trajectories using variable angle locking to obtain the widest allowable screw trajectory

Final constructs

Final construct examples

Distal Posterior Tibia Plate











Screws in the predetermined screw trajectory

Variable angle trajectory



Screw trajectories using variable angle locking to obtain the widest allowable screw trajectory Section 04

System Components

Pangea Distal Tibia Plate Tray

The information in this section is not intended to be used for sales and/or promotional purposes. This information is solely intended to be used as a reference for clinical usage.



Ref #	Description
542227	Distal Tibia Plate Tray

Distal Anterolateral Tibia Plates

Left Ref #	Right Ref #	Plate Length	Shaft Holes
540503	540523	91 mm	3
540504	540524	105 mm	4
540506	540526	133 mm	6
540508	540528	161 mm	8
540510	540530	189 mm	10
540512	540532	217 mm	12
540514S*	540534S*	245 mm	14
540516S*	540536S*	273 mm	16
540518S*	540538S*	301 mm	18



Distal Medial Tibia Plates

Left Ref #	Right Ref #	Plate Length	Shaft Holes
540543	540573	97 mm	3
540544	540574	111 mm	4
540546	540576	139 mm	6
540548	540578	167 mm	8
540550	540580	195 mm	10
540552	540582	223 mm	12
540554S*	540584S*	251 mm	14
540556S*	540586S*	279 mm	16
540558S*	540588S*	307 mm	18



Note: All non-sterile plates and screws may be ordered sterile by placing an "S" at the end of the ref number. Sterile option availability varies by market

^{*}Sterile packed only

Distal Posterior Tibia Plates

Left ref #	Right ref #	Plate length	Shaft holes
540602	540622	75 mm	2
540604	540624	103 mm	4
540606S*	540626S*	131 mm	8
540608S*	540628S*	159 mm	6
540610S*	540630S*	187 mm	10



2.7 Hook Plates

Ref #	Length (mm)	Holes
541303	37	3
541305	57	5



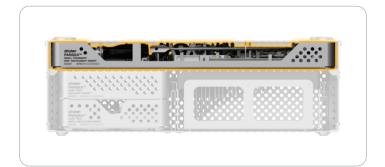
3.5 Hook Plates

Ref #	Length (mm)	Holes
541313	49	3
541315	79	5



Pangea Small Fragment Core Tray

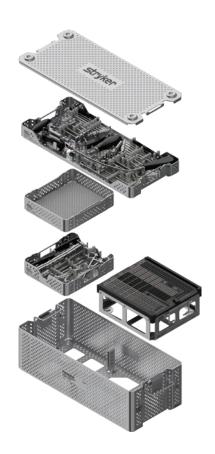
Top level consisting of the instruments listed below:



Ref #	Description
542201	Aluminum lid - universal
542203	Small fragment core tray base
542204	Small fragment ORIF instrument insert
542254	Small fragment std. torque handle insert

Pangea Small Fragment Core Tray - ORIF instrument insert

Ref #	Description
542005	Fixed angle sleeve, T8
542006	Drill sleeve insert, T8, 60mm, ø2.0mm
542008	Variable angle drill guide, T8, ø2.0mm
542009	Compression drill guide, T8 / T15, ø2.0mm / ø2.5mm
542010	Lag screw drill guide, T8, ø2.0mm / ø2.7mm
542011	Screwdriver bit, AO, T8, 93mm
542012	Screwdriver bit, AO, T8, 180mm
542016	Depth gauge, T8, 0-80mm
542015	Screw capture sleeve, T8
542017	Depth gauge, T15, 0-120mm
542025	Fixed angle sleeve, T15
542026	Drill sleeve insert, T15, 60mm, ø2.5mm
542028	Variable angle drill guide, T15, ø2.5mm
542030	Lag screw drill guide, T15, ø2.5mm / ø3.5mm
542031	Screwdriver bit, AO, T15, 93mm
542032	Screwdriver bit, AO, T15, 180mm
542035	Soft tissue elevator, T15
45-80040	Countersink for screws 2.7/3.5mm, AO fitting
542103	Threaded guide post, T15
542027	Screw capture sleeve, T15
542098	Delta handle, small, AO, T8 / T15
542099	Delta handle, large, AO, T20
542000	Drill bit, AO, Ø2.0mm x 135mm
542001	Drill bit, AO, Ø2.0mm x 175mm



Pangea Small Fragment Core Tray

Top level consisting of the instruments listed below:

Pangea Small Fragment Core Tray - ORIF instrument insert

Ref #	Description
542002	Drill bit, AO, Ø2.7mm x 125mm
542020	Drill bit, AO, Ø2.5mm x 135mm
542021	Drill bit, AO, Ø2.5mm x 215mm
542022	Drill bit, AO, Ø3.5mm x 135mm
542003	Tap, locking, AO, Ø2.7mm x 125mm
702801	Tap, AO, Ø2.7mm x 125mm
542023	Tap, locking, AO, Ø3.5mm x 125mm
702802	Tap, AO, Ø3.5mm x 125mm
702803	Tap, cancellous, Ø4mm x 125mm
705002	K-wire drill tip, Ø2.0mm x 234mm
390157	K-wire Ø1.25 x 150mm
390164	K-wire Ø1.6 x 150mm
390192	K-wire Ø2.0 x 150mm
542036	K-wire, olive tip, Ø1.6mm / 100mm

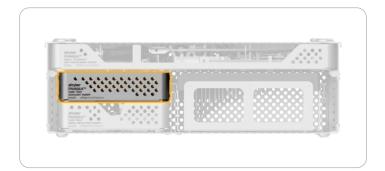
Torque limiter insert instruments

Ref #	Description
542014	Torque limiting Delta handle, AO, T8 1.7Nm
542034	Torque limiting T-handle, AO, T15 4.0Nm

Pangea Small Fragment Core Tray - Instruments

Second level consisting of the instruments listed below:

This level can be removed and replaced with the optional inserts: Core tray ankle plate insert, core tray small fragment utility plate insert, or core tray Asnis III 4.0mm cannulated screw insert.



Ref #	Description
542207	Core tray auxiliary insert
542208	Silicone mat, auxiliary insert

Pangea Small Fragment Core Tray - Instruments

Third level consisting of the instruments listed below:



Ref #	Description
542209	Core tray small reduction insert

Pangea Small Fragment Core Tray - Core tray small reduction insert

Ref #	Description
700151	Hook
700153	Ball spike
700664	Hohmann retractor 6mm
700667	Hohmann retractor 15mm
705294	Periosteal elevator, round edge 6mm
705295	Periosteal elevator, flat blade 13mm
705297	Straight reduction clamp, broad
702932	Repositioning forceps, L143mm (lobster claw)
703938	Bending iron
705019	Temporary plate fixator, AO

Pangea Small Fragment Core Tray - Optional ankle insert



Ref #	Description	
542248	Core tray ankle plate insert	

Implants

Ref #	Description	
540644	Distal lateral fibula plate, L	2.7/3.5mm, 81mm/4 holes
540664	Distal lateral fibula plate, R	2.7/3.5mm, 81mm/4 holes
540645	Distal lateral fibula plate, L	2.7/3.5mm, 95mm/5 holes
540665	Distal lateral fibula plate, R	2.7/3.5mm, 95mm/5 holes
540646	Distal lateral fibula plate, L	2.7/3.5mm, 109mm/6 holes
540666	Distal lateral fibula plate, R	2.7/3.5mm, 109mm/6 holes
540647	Distal lateral fibula plate, L	2.7/3.5mm, 123mm/7 holes
540667	Distal lateral fibula plate, R	2.7/3.5mm, 123mm/7 holes
540648	Distal lateral fibula plate, L	2.7/3.5mm, 137mm/8 holes
540668	Distal lateral fibula plate, R	2.7/3.5mm, 137mm/8 holes
541342	3.5 1/3 tubular plate	3.5mm, 26mm/2 holes
541343	3.5 1/3 tubular plate	3.5mm, 38mm/3 holes
541344	3.5 1/3 tubular plate	3.5mm, 50mm/4 holes
541345	3.5 1/3 tubular plate	3.5mm, 62mm/5 holes
541346	3.5 1/3 tubular plate	3.5mm, 74mm/6 holes
541347	3.5 1/3 tubular plate	3.5mm, 86mm/7 holes
541348	3.5 1/3 tubular plate	3.5mm, 98mm/8 holes
541349	3.5 1/3 tubular plate	3.5mm, 110mm/9 holes
541303	2.7 hook plate	2.7mm, 37mm/3 holes
541305	2.7 hook plate	2.7mm, 57mm/5 holes
541321	2.7 T-plate	2.7mm, 3Tx5
541331	3.5 T-plate	3.5mm, 3Tx5

For the full offering of lengths please refer to the fibula and small fragment utility plate optechs.

*Sterile packed only

Note: All non-sterile plates and screws may be ordered sterile by placing an "S" at the end of the ref number. Sterile option availability varies by market

Pangea Small Fragment Core Tray - Optional Asnis III 4.0mm cannulated screw insert



Ref #	Description	
542245	Core tray Asnis III 4.0mm cannulated screw insert	
940236	Screw rack Asnis III 4.0mm	

Instruments

Ref #	Description
702465	Double drill guide, ø1.4mm/2.7mm
702446	Cannulated drill, AO, ø4.0mm
702449	Cannulated drill, AO, ø2.7mm
702459	Threaded guide wire, ø1.4x150mm
702454	Cannulated tap, AO, ø4.0mm
702473	Cannulated countersink, AO, ø4.0mm screws
702499	Direct measuring gauge for wires ø1.4/2.0x150mm
702482	Cannulated screwdriver, AO, hex 2.5mm
702485	Solid screwdriver, AO, hex 2.5mm
702489	Holding sleeve for screwdrivers, for screwheads ø5.0mm
702492	Cleaning stylet ø1.4mm
702496	Extractor, AO, ø4.0mm screws

Implants

Ref #	Description
604624	4.0 X 24mm TI cannulated screw
604626	4.0 X 26mm TI cannulated screw
604628	4.0 X 28mm TI cannulated screw
604630	4.0 X 30mm TI cannulated screw
604632	4.0 X 32mm TI cannulated screw
604634	4.0 X 34mm TI cannulated screw
604636	4.0 X 36mm TI cannulated screw
604638	4.0 X 38mm TI cannulated screw
604640	4.0 X 40mm TI cannulated screw
604642	4.0 X 42mm TI cannulated screw

Pangea Small Fragment Core Tray - Optional Asnis III 4.0mm cannulated screw insert

Implants

Ref #	Description
604644	4.0 X 44mm TI cannulated screw
604646	4.0 X 46mm TI cannulated screw
604648	4.0 X 48mm TI cannulated screw
604650	4.0 X 50mm TI cannulated screw
604655	4.0 X 55mm TI cannulated screw
604660	4.0 X 60mm TI cannulated screw
604665	4.0 X 65mm TI cannulated screw
604670	4.0 X 70mm TI cannulated screw
604724	4.0 X 24mm TI cannulated screw, full thread
604726	4.0 X 26mm TI cannulated screw, full thread
604728	4.0 X 28mm TI cannulated screw, full thread
604730	4.0 X 30mm TI cannulated screw, full thread
604732	4.0 X 32mm TI cannulated screw, full thread
604734	4.0 X 34mm TI cannulated screw, full thread
604736	4.0 X 36mm TI cannulated screw, full thread
604738	4.0 X 38mm TI cannulated screw, full thread
604740	4.0 X 40mm TI cannulated screw, full thread
604742	4.0 X 42mm TI cannulated screw, full thread
604744	4.0 X 44mm TI cannulated screw, full thread
604746	4.0 X 46mm TI cannulated screw, full thread
604748	4.0 X 48mm TI cannulated screw, full thread
604750	4.0 X 50mm TI cannulated screw, full thread
619905	Washer

Pangea Small Fragment Core Tray - Optional small fragment utility plate insert



Ref #	Description	
542247	Core tray small utility plate insert	

Implants

Ref #	Description	
541342	3.5 1/3 tubular plate	3.5mm, 26mm/2 holes
541343	3.5 1/3 tubular plate	3.5mm, 38mm/3 holes
541344	3.5 1/3 tubular plate	3.5mm, 50mm/4 holes
541345	3.5 1/3 tubular plate	3.5mm, 62mm/5 holes
541346	3.5 1/3 tubular plate	3.5mm, 74mm/6 holes
541347	3.5 1/3 tubular plate	3.5mm, 86mm/7 holes
541348	3.5 1/3 tubular plate	3.5mm, 98mm/8 holes
541349	3.5 1/3 tubular plate	3.5mm, 110mm/9 holes
541303	2.7 hook plate	2.7mm, 37mm/3 holes
541305	2.7 hook plate	2.7mm, 57mm/5 holes
541313	3.5 hook plate	3.5mm, 49mm/3 holes
541315	3.5 hook plate	3.5mm, 79mm/5 holes
541321	2.7 T-plate	2.7mm, 3TX5
541322	2.7 T-plate	2.7mm, 3TX10

Ref #	Description	
541331	3.5 T-plate	3.5mm, 3Tx5
541332	3.5 T-plate	3.5mm, 3Tx10
541036	3.5 straight narrow plate	3.5mm, 81mm/6 holes
541037	3.5 straight narrow plate	3.5mm, 104mm/7 holes
541038	3.5 straight narrow plate	3.5mm, 115mm/8 holes
541039	3.5 straight narrow plate	3.5mm, 138mm/9 holes
541040	3.5 straight narrow plate	3.5mm, 149mm/10 holes
541042	3.5 straight narrow plate	3.5mm, 183mm/12 holes
541004	2.7 straight narrow plate	2.7mm, 31mm/4 holes
541006	2.7 straight narrow plate	2.7mm, 46mm/6 holes
541008	2.7 straight narrow plate	2.7mm, 61mm/8 holes
541010	2.7 straight narrow plate	2.7mm, 76mm/10 holes
541020	2.7 straight narrow plate	2.7mm, 152mm/20 holes

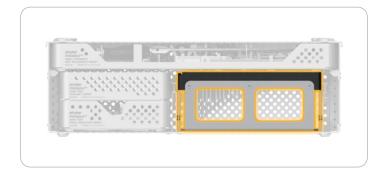
For the full offering of lengths please refer to the fibula and small fragment utility plate optechs.

*Sterile packed only

Note: All non-sterile plates and screws may be ordered sterile by placing an "S" at the end of the ref number. Sterile option availability varies by market

Pangea Small Fragment Core Tray - Screws

Screw rack consisting of the implants listed below:



Ref #	Description	
542205	Small fragment screw rack (with lid)	
542206	Small fragment screw rack lid	

2.7mm locking screw self-tapping, T8 drive

Ref #	Length (mm)
541408	8
541410	10
541412	12
541414	14
541416	16
541418	18
541420	20
541422	22
541424	24
541426	26
541428	28
541430	30
541432	32
541434	34

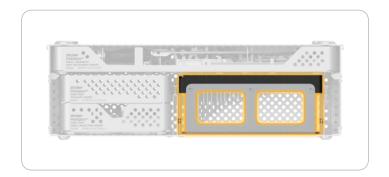
Ref #	Length (mm)
541436	36
541438	38
541440	40
541442	42
541444	44
541446	46
541448	48
541450	50
541455	55
541460	60
541465	65
541470	70
541475S*	75
541480S*	80



^{*}Sterile packed only

Pangea Small Fragment Core Tray - Screws

Screw rack consisting of the implants listed below:



2.7mm cortex screw self-tapping, T8 drive

Ref #	Length (mm)
541708	8
541710	10
541712	12
541714	14
541716	16
541718	18
541720	20
541722	22
541724	24
541726	26
541728	28
541730	30
541732	32
541734	34

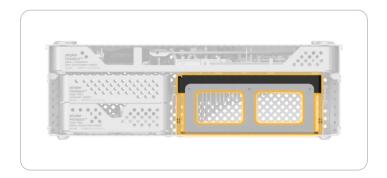
Ref #	Length (mm)
541736	36
541738	38
541740	40
541742	42
541744	44
541746	46
541748	48
541750	50
541755	55
541760	60
541765	65
541770	70
541775S*	75
541780S*	80



^{*}Sterile packed only

Pangea Small Fragment Core Tray - Screws

Screw rack consisting of the implants listed below:



3.5mm locking screw self-tapping, T15 drive

Ref #	Length (mm)
541510	10
541512	12
541514	14
541516	16
541518	18
541520	20
541522	22
541524	24
541526	26
541528	28
541530	30
541532	32
541534	34
541536	36
541538	38
541540	40
541542	42
541544	44

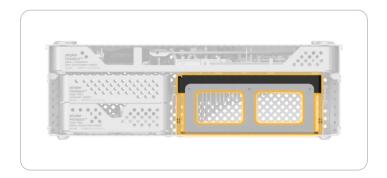
Ref #	Length (mm)
541546	46
541548	48
541550	50
541555	55
541560	60
541565	65
541570	70
541575	75
541580	80
541585	85
541590	90
541595	95
541600S*	100
541605S*	105
541610S*	110
541615S*	115
541620S*	120



^{*}Sterile packed only

Pangea Small Fragment Core Tray - Screws

Screw rack consisting of the implants listed below:



3.5mm cortex screw self-tapping, T15 drive

Ref #	Length (mm)
661410	10
661412	12
661414	14
661416	16
661418	18
661420	20
661422	22
661424	24
661426	26
661428	28
661430	30
661432	32
661434	34
661436	36
661438	38
661440	40
661442	42
661444	44

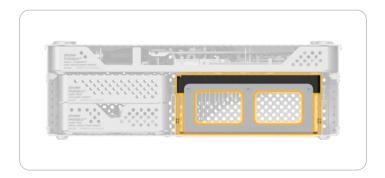
Ref #	Length (mm)
661446	46
661448	48
661450	50
661455	55
661460	60
661465	65
661470	70
661475	75
661480	80
661485	85
661490	90
661495	95
661500S*	100
661505S*	105
661510S*	110
661515S*	115
661520S*	120



^{*}Sterile packed only

Pangea Small Fragment Core Tray - Screws

Screw rack consisting of the implants listed below:



4.0mm cancellous screw full thread self-tapping, T15 drive

Ref #	Length (mm)
607310	10
607312	12
607314	14
607316	16
607318	18
607320	20
607322	22
607324	24
607326	26
607328	28
607330	30
607332	32
607334	34
607336	36
607338	38
607340	40

KCI #	Lengin (iiiii)
607342	42
607344	44
607346	46
607348	48
607350	50
607355	55
607360	60
607365	65
607370	70
607375	75
607380	80
607385	85
607390	90
607395	95
607400S*	100

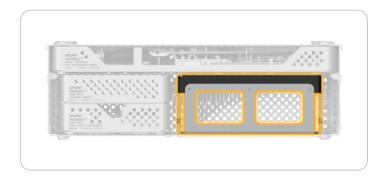
Length (mm)



^{*}Sterile packed only

Pangea Small Fragment Core Tray - Screws

Screw rack consisting of the implants listed below:



4.0mm cancellous screw partial thread self-tapping, T15 drive

Ref #	Length (mm)	Thread length (mm)
607410	10	5
607412	12	5
607414	14	5
607416	16	6
607418	18	7
607420	20	8
607422	22	9
607424	24	10
607426	26	12
607428	28	14
607430	30	14
607432	32	14
607434	34	14
607436	36	14
607438	38	14
607440	40	14

Ref #	(mm)	(mm)
607442	42	15
607444	44	15
607446	46	15
607448	48	15
607450	50	15
607455	55	16
607460	60	16
607465	65	16
607470	70	16
607475	75	16
607480	80	16
607485	85	16
607490	90	16
607495	95	16
607500S*	100	16

Thread length



Cable plugs and washers

Ref #	Description
541400S*	3.5mm cable plug
40-30900	Washer, T8
663001	Washer, T15



Note: All non-sterile plates and screws may be ordered sterile by placing an "S" at the end of the ref number. Sterile option availability varies by market

^{*}Sterile packed only

Pangea Large Fragment Core Tray

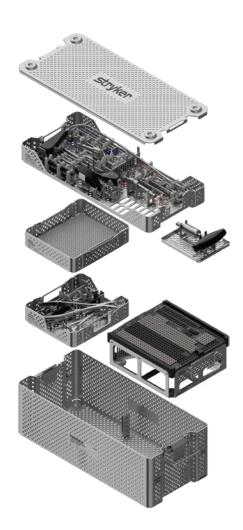
Top level consisting of the instruments listed below:



Ref #	Description
542201	Aluminum lid - universal
542211	Large fragment core tray base
542212	Large fragment ORIF instrument insert
542255	Large fragment std. torque handle insert

Pangea Large Fragment Core Tray - ORIF instrument insert

Ref # Description 542058 Fixed angle sleeve, T20 542059 Drill sleeve insert, T20, 60mm, ø3.2mm 542060 Drill sleeve insert, T20, 60mm, ø4.3mm 542061 K-wire sleeve insert, T20, ø2.0mm 542062 Variable angle drill guide, T20, ø3.2mm 542063 Variable angle drill guide, T20, ø4.3mm 542064 Compression drill guide, T20, ø4.5mm / ø3.2mm 542065 Lag screw drill guide, T20, ø4.5mm / ø3.2mm 542066 Screwdriver bit, A0, T20, 93mm 542067 Screwdriver bit, A0, T20, 180mm 542099 Delta handle, large, A0, T20 702812 Countersink, A0, ø4.5/6.5mm 705014 Depth gauge, T20, 0-120mm 542105 Threaded guide post, T20 705019 Temporary plate fixator, A0 542069 Screw capture sleeve, T20 542050 Drill bit, A0, Ø3.2mm x 145mm 542051 Drill bit, A0, Ø4.3mm x 215mm 542052 Drill bit, A0, Ø4.3mm x 135mm 542054 Drill bit, A0, Ø4.5mm x 135mm 542054 Drill bit, A0, Ø4.5mm x 135mm 542054		
542059 Drill sleeve insert, T20, 60mm, ø3.2mm 542060 Drill sleeve insert, T20, 60mm, ø4.3mm 542061 K-wire sleeve insert, T20, 62.0mm 542062 Variable angle drill guide, T20, ø3.2mm 542063 Variable angle drill guide, T20, ø4.3mm 542064 Compression drill guide, T20, ø3.2mm 542065 Lag screw drill guide, T20, ø3.2mm 542066 Screwdriver bit, AO, T20, 93mm 542067 Screwdriver bit, AO, T20, 180mm 542099 Delta handle, large, AO, T20 702812 Countersink, AO, ø4.5/6.5mm 705014 Depth gauge, T20, 0-120mm 542105 Threaded guide post, T20 706416 Soft tissue elevator, T20 705019 Temporary plate fixator, AO 542069 Screw capture sleeve, T20 542050 Drill bit, AO, Ø3.2mm x 145mm 542051 Drill bit, AO, Ø3.2mm x 215mm 542052 Drill bit, AO, Ø4.3mm x 125mm 542053 Drill bit, AO, Ø4.5mm x 135mm 542054 Drill bit, AO, Ø4.5mm x 135mm 542057 Tap, locking, AO, Ø4.0mm x 145mm 7050	Ref #	Description
542060 Drill sleeve insert, T20, 60mm, φ4.3mm 542061 K-wire sleeve insert, T20, φ2.0mm 542062 Variable angle drill guide, T20, φ3.2mm 542063 Variable angle drill guide, T20, φ4.3mm 542064 Compression drill guide, T20, φ4.5mm 542065 Lag screw drill guide, T20, φ4.5mm / φ3.2mm 542066 Screwdriver bit, A0, T20, 93mm 542067 Screwdriver bit, A0, T20, 180mm 542099 Delta handle, large, A0, T20 702812 Countersink, A0, φ4.5/6.5mm 705014 Depth gauge, T20, 0-120mm 542105 Threaded guide post, T20 706416 Soft tissue elevator, T20 705019 Temporary plate fixator, A0 542069 Screw capture sleeve, T20 542050 Drill bit, A0, Ø3.2mm x 145mm 542051 Drill bit, A0, Ø4.3mm x 125mm 542052 Drill bit, A0, Ø4.3mm x 135mm 542053 Drill bit, A0, Ø4.5mm x 135mm 542054 Drill bit, A0, Ø4.5mm x 135mm 542057 Tap, locking, A0, Ø5.0mm x 145mm 705054 Tap, Cancellous, Ø6mm x 180mm 7028	542058	Fixed angle sleeve, T20
542061 K-wire sleeve insert, T20, ø2.0mm 542062 Variable angle drill guide, T20, ø3.2mm 542063 Variable angle drill guide, T20, ø4.3mm 542064 Compression drill guide, T20, ø4.5mm 542065 Lag screw drill guide, T20, ø4.5mm / ø3.2mm 542066 Screwdriver bit, A0, T20, 93mm 542067 Screwdriver bit, A0, T20, 180mm 542099 Delta handle, large, A0, T20 702812 Countersink, A0, ø4.5/6.5mm 705014 Depth gauge, T20, 0-120mm 542105 Threaded guide post, T20 705019 Temporary plate fixator, A0 542069 Screw capture sleeve, T20 542050 Drill bit, A0, Ø3.2mm x 145mm 542051 Drill bit, A0, Ø4.3mm x 125mm 542052 Drill bit, A0, Ø4.3mm x 125mm 542053 Drill bit, A0, Ø4.5mm x 135mm 542054 Drill bit, A0, Ø4.5mm x 135mm 542055 Tap, locking, A0, Ø4.0mm x 145mm 542050 Tap, locking, A0, Ø4.0mm x 145mm 542051 Tap, locking, A0, Ø5.0mm x 145mm 542052 Tap, locking, A0, Ø5.0mm x 145mm	542059	Drill sleeve insert, T20, 60mm, ø3.2mm
542062 Variable angle drill guide, T20, ø3.2mm 542063 Variable angle drill guide, T20, ø4.3mm 542064 Compression drill guide, T20, ø4.5mm / ø3.2mm 542065 Lag screw drill guide, T20, ø4.5mm / ø3.2mm 542066 Screwdriver bit, AO, T20, 93mm 542067 Screwdriver bit, AO, T20, 180mm 542099 Delta handle, large, AO, T20 702812 Countersink, AO, ø4.5/6.5mm 705014 Depth gauge, T20, 0-120mm 542105 Threaded guide post, T20 706416 Soft tissue elevator, T20 705019 Temporary plate fixator, AO 542069 Screw capture sleeve, T20 542050 Drill bit, AO, Ø3.2mm x 145mm 542051 Drill bit, AO, Ø4.3mm x 125mm 542052 Drill bit, AO, Ø4.3mm x 135mm 542054 Drill bit, AO, Ø4.5mm x 135mm 542054 Drill bit, AO, Ø4.5mm x 145mm 542057 Tap, locking, AO, Ø4.0mm x 145mm 542054 Tap, locking, AO, Ø5.0mm x 145mm	542060	Drill sleeve insert, T20, 60mm, ø4.3mm
542063 Variable angle drill guide , T20, φ4.3mm 542064 Compression drill guide , T20, φ4.5mm 542065 Lag screw drill guide, T20, φ4.5mm / φ3.2mm 542066 Screwdriver bit, AO, T20, 93mm 542067 Screwdriver bit, AO, T20, 180mm 542099 Delta handle, large, AO, T20 702812 Countersink, AO, φ4.5/6.5mm 705014 Depth gauge, T20, 0-120mm 542105 Threaded guide post, T20 706416 Soft tissue elevator, T20 705019 Temporary plate fixator, AO 542069 Screw capture sleeve, T20 542050 Drill bit, AO, Ø3.2mm x 145mm 542051 Drill bit, AO, Ø4.3mm x 125mm 542052 Drill bit, AO, Ø4.3mm x 125mm 542053 Drill bit, AO, Ø4.5mm x 135mm 542054 Drill bit, AO, Ø4.5mm x 145mm 542057 Tap, locking, AO, Ø4.0mm x 145mm 542054 Tap, locking, AO, Ø5.0mm x 180mm 705054 Tap, Cancellous, Ø6mm x 180mm 702808 Tap, AO, Ø4.5 x 145mm 390192 K-wire, Ø2.0 x 150mm	542061	K-wire sleeve insert, T20, ø2.0mm
542064 Compression drill guide, T20, ø3.2mm 542065 Lag screw drill guide, T20, ø4.5mm / ø3.2mm 542066 Screwdriver bit, AO, T20, 93mm 542067 Screwdriver bit, AO, T20, 180mm 542099 Delta handle, large, AO, T20 702812 Countersink, AO, ø4.5/6.5mm 705014 Depth gauge, T20, 0-120mm 542105 Threaded guide post, T20 706416 Soft tissue elevator, T20 705019 Temporary plate fixator, AO 542069 Screw capture sleeve, T20 542050 Drill bit, AO, Ø3.2mm x 145mm 542051 Drill bit, AO, Ø4.3mm x 145mm 542053 Drill bit, AO, Ø4.5mm x 135mm 542054 Drill bit, AO, Ø4.5mm x 135mm 542055 Tap, locking, AO, Ø4.0mm x 145mm 542057 Tap, locking, AO, Ø5.0mm x 145mm 705054 Tap, Cancellous, Ø6mm x 180mm 702808 Tap, AO, Ø4.5 x 145mm 890192 K-wire, Ø2.0 x 150mm	542062	Variable angle drill guide, T20, ø3.2mm
542065 Lag screw drill guide, T20, ø4.5mm / ø3.2mm 542066 Screwdriver bit, AO, T20, 93mm 542067 Screwdriver bit, AO, T20, 180mm 542099 Delta handle, large, AO, T20 702812 Countersink, AO, ø4.5/6.5mm 705014 Depth gauge, T20, 0-120mm 542105 Threaded guide post, T20 706416 Soft tissue elevator, T20 705019 Temporary plate fixator, AO 542069 Screw capture sleeve, T20 542050 Drill bit, AO, Ø3.2mm x 145mm 542051 Drill bit, AO, Ø4.3mm x 215mm 542052 Drill bit, AO, Ø4.3mm x 145mm 542053 Drill bit, AO, Ø4.5mm x 135mm 542054 Drill bit, AO, Ø4.5mm x 145mm 542057 Tap, locking, AO, Ø4.0mm x 145mm 542057 Tap, locking, AO, Ø5.0mm x 180mm 705054 Tap, Cancellous, Ø6mm x 180mm 702808 Tap, AO, Ø4.5 x 145mm 390192 K-wire, Ø2.0 x 150mm	542063	Variable angle drill guide , T20, ø4.3mm
542066 Screwdriver bit, AO, T20, 93mm 542067 Screwdriver bit, AO, T20, 180mm 542099 Delta handle, large, AO, T20 702812 Countersink, AO, ø4.5/6.5mm 705014 Depth gauge, T20, 0-120mm 542105 Threaded guide post, T20 706416 Soft tissue elevator, T20 705019 Temporary plate fixator, AO 542069 Screw capture sleeve, T20 542050 Drill bit, AO, Ø3.2mm x 145mm 542051 Drill bit, AO, Ø4.3mm x 1215mm 542052 Drill bit, AO, Ø4.3mm x 215mm 542053 Drill bit, AO, Ø4.5mm x 135mm 542054 Drill bit, AO, Ø4.5mm x 135mm 542057 Tap, locking, AO, Ø4.0mm x 145mm 705054 Tap, Cancellous, Ø6mm x 180mm 702808 Tap, AO, Ø4.5 x 145mm 390192 K-wire, Ø2.0 x 150mm	542064	Compression drill guide, T20, ø3.2mm
542067 Screwdriver bit, AO, T20, 180mm 542099 Delta handle, large, AO, T20 702812 Countersink, AO, ø4.5/6.5mm 705014 Depth gauge, T20, 0-120mm 542105 Threaded guide post, T20 706416 Soft tissue elevator, T20 705019 Temporary plate fixator, AO 542069 Screw capture sleeve, T20 542050 Drill bit, AO, Ø3.2mm x 145mm 542051 Drill bit, AO, Ø3.2mm x 215mm 542052 Drill bit, AO, Ø4.3mm x 145mm 542053 Drill bit, AO, Ø4.5mm x 135mm 542054 Drill bit, AO, Ø4.5mm x 135mm 542054 Tap, locking, AO, Ø4.0mm x 145mm 542057 Tap, locking, AO, Ø5.0mm x 145mm 705054 Tap, Cancellous, Ø6mm x 180mm 702808 Tap, AO, Ø4.5 x 145mm 390192 K-wire, Ø2.0 x 150mm	542065	Lag screw drill guide, T20, ø4.5mm / ø3.2mm
542099 Delta handle, large, AO, T20 702812 Countersink, AO, ø4.5/6.5mm 705014 Depth gauge, T20, 0-120mm 542105 Threaded guide post, T20 706416 Soft tissue elevator, T20 705019 Temporary plate fixator, AO 542069 Screw capture sleeve, T20 542050 Drill bit, AO, Ø3.2mm x 145mm 542051 Drill bit, AO, Ø4.3mm x 215mm 542052 Drill bit, AO, Ø4.3mm x 145mm 542053 Drill bit, AO, Ø4.5mm x 135mm 542054 Drill bit, AO, Ø4.5mm x 135mm 542054 Tap, locking, AO, Ø4.0mm x 145mm 542057 Tap, locking, AO, Ø5.0mm x 145mm 705054 Tap, Cancellous, Ø6mm x 180mm 702808 Tap, AO, Ø4.5 x 145mm 390192 K-wire, Ø2.0 x 150mm	542066	Screwdriver bit, AO, T20, 93mm
702812 Countersink, AO, Ø4.5/6.5mm 705014 Depth gauge, T20, 0-120mm 542105 Threaded guide post, T20 706416 Soft tissue elevator, T20 705019 Temporary plate fixator, AO 542069 Screw capture sleeve, T20 542050 Drill bit, AO, Ø3.2mm x 145mm 542051 Drill bit, AO, Ø3.2mm x 215mm 542052 Drill bit, AO, Ø4.3mm x 145mm 542053 Drill bit, AO, Ø4.3mm x 135mm 542054 Drill bit, AO, Ø4.5mm x 135mm 542024 Tap, locking, AO, Ø4.0mm x 145mm 542057 Tap, locking, AO, Ø5.0mm x 145mm 705054 Tap, Cancellous, Ø6mm x 180mm 702808 Tap, AO, Ø4.5 x 145mm 390192 K-wire, Ø2.0 x 150mm	542067	Screwdriver bit, AO, T20, 180mm
705014 Depth gauge, T20, 0-120mm 542105 Threaded guide post, T20 706416 Soft tissue elevator, T20 705019 Temporary plate fixator, AO 542069 Screw capture sleeve, T20 542050 Drill bit, AO, Ø3.2mm x 145mm 542051 Drill bit, AO, Ø4.3mm x 215mm 542052 Drill bit, AO, Ø4.3mm x 145mm 542053 Drill bit, AO, Ø4.5mm x 135mm 542054 Drill bit, AO, Ø4.5mm x 145mm 542024 Tap, locking, AO, Ø4.0mm x 145mm 542057 Tap, locking, AO, Ø5.0mm x 145mm 705054 Tap, Cancellous, Ø6mm x 180mm 702808 Tap, AO, Ø4.5 x 145mm 390192 K-wire, Ø2.0 x 150mm	542099	Delta handle, large, AO, T20
542105 Threaded guide post, T20 706416 Soft tissue elevator, T20 705019 Temporary plate fixator, AO 542069 Screw capture sleeve, T20 542050 Drill bit, AO, Ø3.2mm x 145mm 542051 Drill bit, AO, Ø4.3mm x 215mm 542052 Drill bit, AO, Ø4.3mm x 215mm 542053 Drill bit, AO, Ø4.3mm x 135mm 542054 Drill bit, AO, Ø4.5mm x 135mm 542024 Tap, locking, AO, Ø4.0mm x 145mm 542057 Tap, locking, AO, Ø5.0mm x 145mm 705054 Tap, Cancellous, Ø6mm x 180mm 702808 Tap, AO, Ø4.5 x 145mm 390192 K-wire, Ø2.0 x 150mm	702812	Countersink, AO, ø4.5/6.5mm
706416 Soft tissue elevator, T20 705019 Temporary plate fixator, AO 542069 Screw capture sleeve, T20 542050 Drill bit, AO, Ø3.2mm x 145mm 542051 Drill bit, AO, Ø3.2mm x 215mm 542052 Drill bit, AO, Ø4.3mm x 145mm 542053 Drill bit, AO, Ø4.3mm x 215mm 542054 Drill bit, AO, Ø4.5mm x 135mm 542024 Tap, locking, AO, Ø4.0mm x 145mm 542057 Tap, locking, AO, Ø5.0mm x 145mm 705054 Tap, Cancellous, Ø6mm x 180mm 702808 Tap, AO, Ø4.5 x 145mm 390192 K-wire, Ø2.0 x 150mm	705014	Depth gauge, T20, 0-120mm
705019 Temporary plate fixator, AO 542069 Screw capture sleeve, T20 542050 Drill bit, AO, Ø3.2mm x 145mm 542051 Drill bit, AO, Ø3.2mm x 215mm 542052 Drill bit, AO, Ø4.3mm x 145mm 542053 Drill bit, AO, Ø4.3mm x 215mm 542054 Drill bit, AO, Ø4.5mm x 135mm 542024 Tap, locking, AO, Ø4.0mm x 145mm 542057 Tap, locking, AO, Ø5.0mm x 145mm 705054 Tap, Cancellous, Ø6mm x 180mm 702808 Tap, AO, Ø4.5 x 145mm 390192 K-wire, Ø2.0 x 150mm	542105	Threaded guide post, T20
542069 Screw capture sleeve, T20 542050 Drill bit, AO, Ø3.2mm x 145mm 542051 Drill bit, AO, Ø3.2mm x 215mm 542052 Drill bit, AO, Ø4.3mm x 145mm 542053 Drill bit, AO, Ø4.3mm x 215mm 542054 Drill bit, AO, Ø4.5mm x 135mm 542024 Tap, locking, AO, Ø4.0mm x 145mm 542057 Tap, locking, AO, Ø5.0mm x 145mm 705054 Tap, Cancellous, Ø6mm x 180mm 702808 Tap, AO, Ø4.5 x 145mm 390192 K-wire, Ø2.0 x 150mm	706416	Soft tissue elevator, T20
542050 Drill bit, AO, Ø3.2mm x 145mm 542051 Drill bit, AO, Ø3.2mm x 215mm 542052 Drill bit, AO, Ø4.3mm x 145mm 542053 Drill bit, AO, Ø4.3mm x 215mm 542054 Drill bit, AO, Ø4.5mm x 135mm 542024 Tap, locking, AO, Ø4.0mm x 145mm 542057 Tap, locking, AO, Ø5.0mm x 145mm 705054 Tap, Cancellous, Ø6mm x 180mm 702808 Tap, AO, Ø4.5 x 145mm 390192 K-wire, Ø2.0 x 150mm	705019	Temporary plate fixator, AO
542051 Drill bit, AO, Ø3.2mm x 215mm 542052 Drill bit, AO, Ø4.3mm x 145mm 542053 Drill bit, AO, Ø4.3mm x 215mm 542054 Drill bit, AO, Ø4.5mm x 135mm 542024 Tap, locking, AO, Ø4.0mm x 145mm 542057 Tap, locking, AO, Ø5.0mm x 145mm 705054 Tap, Cancellous, Ø6mm x 180mm 702808 Tap, AO, Ø4.5 x 145mm 390192 K-wire, Ø2.0 x 150mm	542069	Screw capture sleeve, T20
542052 Drill bit, AO, Ø4.3mm x 145mm 542053 Drill bit, AO, Ø4.3mm x 215mm 542054 Drill bit, AO, Ø4.5mm x 135mm 542024 Tap, locking, AO, Ø4.0mm x 145mm 542057 Tap, locking, AO, Ø5.0mm x 145mm 705054 Tap, Cancellous, Ø6mm x 180mm 702808 Tap, AO, Ø4.5 x 145mm 390192 K-wire, Ø2.0 x 150mm	542050	Drill bit, AO, Ø3.2mm x 145mm
542053 Drill bit, AO, Ø4.3mm x 215mm 542054 Drill bit, AO, Ø4.5mm x 135mm 542024 Tap, locking, AO, Ø4.0mm x 145mm 542057 Tap, locking, AO, Ø5.0mm x 145mm 705054 Tap, Cancellous, Ø6mm x 180mm 702808 Tap, AO, Ø4.5 x 145mm 390192 K-wire, Ø2.0 x 150mm	542051	Drill bit, AO, Ø3.2mm x 215mm
542054 Drill bit, AO, Ø4.5mm x 135mm 542024 Tap, locking, AO, Ø4.0mm x 145mm 542057 Tap, locking, AO, Ø5.0mm x 145mm 705054 Tap, Cancellous, Ø6mm x 180mm 702808 Tap, AO, Ø4.5 x 145mm 390192 K-wire, Ø2.0 x 150mm	542052	Drill bit, AO, Ø4.3mm x 145mm
542024 Tap, locking, AO, Ø4.0mm x 145mm 542057 Tap, locking, AO, Ø5.0mm x 145mm 705054 Tap, Cancellous, Ø6mm x 180mm 702808 Tap, AO, Ø4.5 x 145mm 390192 K-wire, Ø2.0 x 150mm	542053	Drill bit, AO, Ø4.3mm x 215mm
542057 Tap, locking, AO, Ø5.0mm x 145mm 705054 Tap, Cancellous, Ø6mm x 180mm 702808 Tap, AO, Ø4.5 x 145mm 390192 K-wire, Ø2.0 x 150mm	542054	Drill bit, AO, Ø4.5mm x 135mm
705054 Tap, Cancellous, Ø6mm x 180mm 702808 Tap, AO, Ø4.5 x 145mm 390192 K-wire, Ø2.0 x 150mm	542024	Tap, locking, AO, Ø4.0mm x 145mm
702808 Tap, AO, Ø4.5 x 145mm 390192 K-wire, Ø2.0 x 150mm	542057	Tap, locking, AO, Ø5.0mm x 145mm
390192 K-wire, Ø2.0 x 150mm	705054	Tap, Cancellous, Ø6mm x 180mm
	702808	Tap, AO, Ø4.5 x 145mm
705002 K-wire drill tip, Ø2.0 x 234mm	390192	K-wire, Ø2.0 x 150mm
	705002	K-wire drill tip, Ø2.0 x 234mm



Pangea Large Fragment Core Tray

Top level consisting of the instruments listed below:

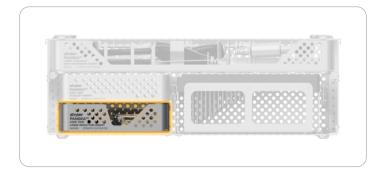
Torque limiter insert instruments

Ref #	Description
542068	Torque limiting T-handle, AO, T20 6Nm

Pangea Large Fragment Core Tray - Instruments

Third level consisting of the instruments listed below:

This level can be removed and replaced with the optional inserts: Core tray large fragment reduction insert or core tray Asnis III 4.0mm cannulated screw insert.



Ref #	Description	
542207	Core tray auxiliary insert	
542208	Silicone mat, auxiliary insert	

Pangea Large Fragment Core Tray - Optional large fragment reduction insert



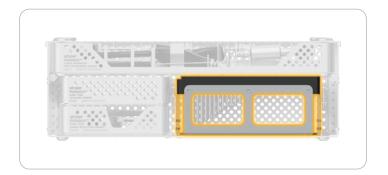
Ref #	Description	
542249	Core tray large reduction insert	

Instruments

Ref #	Description
700151	Hook
700153	Ball spike
705294	Periosteal elevator, round edge 6mm
705295	Periosteal elevator, flat blade 13mm
702927	Repositioning forceps, L205mm
702940	Reduction forceps with serrated jaws
390084	Reduction pin, AO, Ø5.0 x 180mm
700367	T-handle, AO quick-chuck

Pangea Large Fragment Core Tray - Screws

Screw rack consisting of the implants listed below:



Ref #	Description	
542213	Large fragment screw rack (with lid)	
542214	Large fragment screw rack lid	

4.0mm locking screw self-tapping, T20 drive

Ref #	Length (mm)
662214	14
662216	16
662218	18
662220	20
662222	22
662224	24
662226	26
662228	28
662230	30
662232	32
662234	34
662236	36
662238	38
662240	40

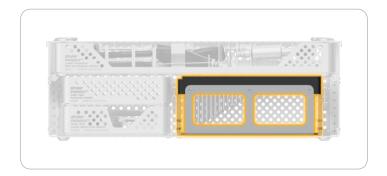
Ref #	Length (mm)
662242	42
662244	44
662246	46
662248	48
662250	50
662255	55
662260	60
662265	65
662270	70
662275	75
662280	80
662285	85
662290	90
662295	95



^{*}Sterile packed only

Pangea Large Fragment Core Tray - Screws

Screw rack consisting of the implants listed below:



5.0mm locking screw self-tapping, T20 drive

Ref #	Length (mm)
662314	14
662316	16
662318	18
662320	20
662322	22
662324	24
662326	26
662328	28
662330	30
662332	32
662334	34
662336	36
662338	38
662340	40
662342	42
662344	44
662346	46

Ref #	Length (mm)
662348	48
662350	50
662355	55
662360	60
662365	65
662370	70
662375	75
662380	80
662385	85
662390	90
662395	95
662400S*	100
662405S*	105
662410S*	110
662415S*	115
662420S*	120



5.0mm periprosthetic locking screw self-tapping, T20 drive

Ref #	Length (mm)
661210	10
661212	12
661214	14

Ref #	Length (mm)	
661216	16	
661218	18	
661220	20	

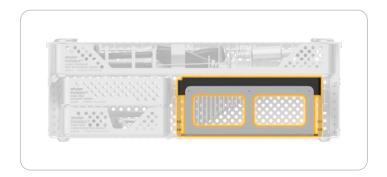


Note: All non-sterile plates and screws may be ordered sterile by placing an "S" at the end of the ref number. Sterile option availability varies by market

^{*}Sterile packed only

Pangea Large Fragment Core Tray - Screws

Screw rack consisting of the implants listed below:



4.5mm cortex screw self-tapping, T20 drive

Ref #	Length (mm)
661714	14
661716	16
661718	18
661720	20
661722	22
661724	24
661726	26
661728	28
661730	30
661732	32
661734	34
661736	36
661738	38
661740	40
661742	42
661744	44
661746	46
661748	48
661750	50
661755	55

Ref #	Length (mm)
661760	60
661765	65
661770	70
661775	75
661780	80
661785	85
661790	90
661795	95
661800S*	100
661805S*	105
661810S*	110
661815S*	115
661820S*	120
661825S*	125
661830S*	130
661835S*	135
661840S*	140
661845S*	145
661850S*	150



Cable plugs and washers

Ref #	Description
662202S*	5.0mm cable plug
663201	Washer, T20

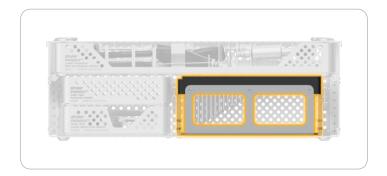


Note: All non-sterile plates and screws may be ordered sterile by placing an "S" at the end of the ref number. Sterile option availability varies by market

^{*}Sterile packed only

Pangea Large Fragment Core Tray - Screws

Screw rack consisting of the implants listed below:



6.0mm cancellous screw full thread, T20 drive

Ref #	Length (mm)
608020	20
608025	25
608030	30
608035	35
608040	40
608045	45
608050	50
608055	55
608060	60
608065	65
608070	70
608075	75
608080	80
608085	85

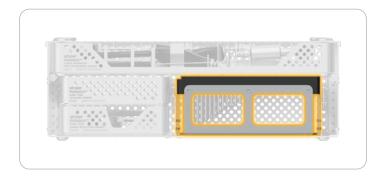
Ref #	Length (mm)
608090	90
608095	95
608100S*	100
608105S*	105
608110S*	110
608115S*	115
608120S*	120
608125S*	125
608130S*	130
608135S*	135
608140S*	140
608145S*	145
608150S*	150



^{*}Sterile packed only

Pangea Large Fragment Core Tray - Screws

Screw rack consisting of the implants listed below:



6.0mm cancellous screw, 16mm thread T20 drive

Ref #	Length (mm)
608230	30
608235	35
608240	40
608245	45
608250	50
608255	55
608260	60
608265	65
608270	70
608275	75
608280	80
608285	85
608290	90

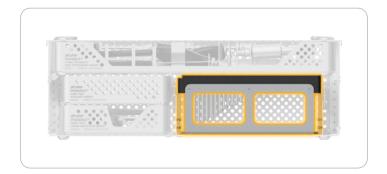
Ref #	Length (mm)
608295	95
608300S*	100
608305S*	105
608310S*	110
608315S*	115
608320S*	120
608325S*	125
608330S*	130
608335S*	135
608340S*	140
608345S*	145
608350S*	150



^{*}Sterile packed only

Pangea Large Fragment Core Tray - Screws

Screw rack consisting of the implants listed below:



6.0mm cancellous screw, 32mm thread, T20 drive

Ref #	Length (mm)	Ref #	Length (mm)
608445	45	608500S*	100
608450	50	608505S*	105
608455	55	608510S*	110
608460	60	608515S*	115
608465	65	608520S*	120
608470	70	608525S*	125
608475	75	608530S*	130
608480	80	608535S*	135
608485	85	608540S*	140
608490	90	608545S*	145
608495	95	608550S*	150



^{*}Sterile packed only

References

1. Schmidt, W et al. "Stryker Orthopaedic Modeling and Analytics (SOMA): A Review." Surgical Technology International, vol. 32 (2018): 315-324.

Notes

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