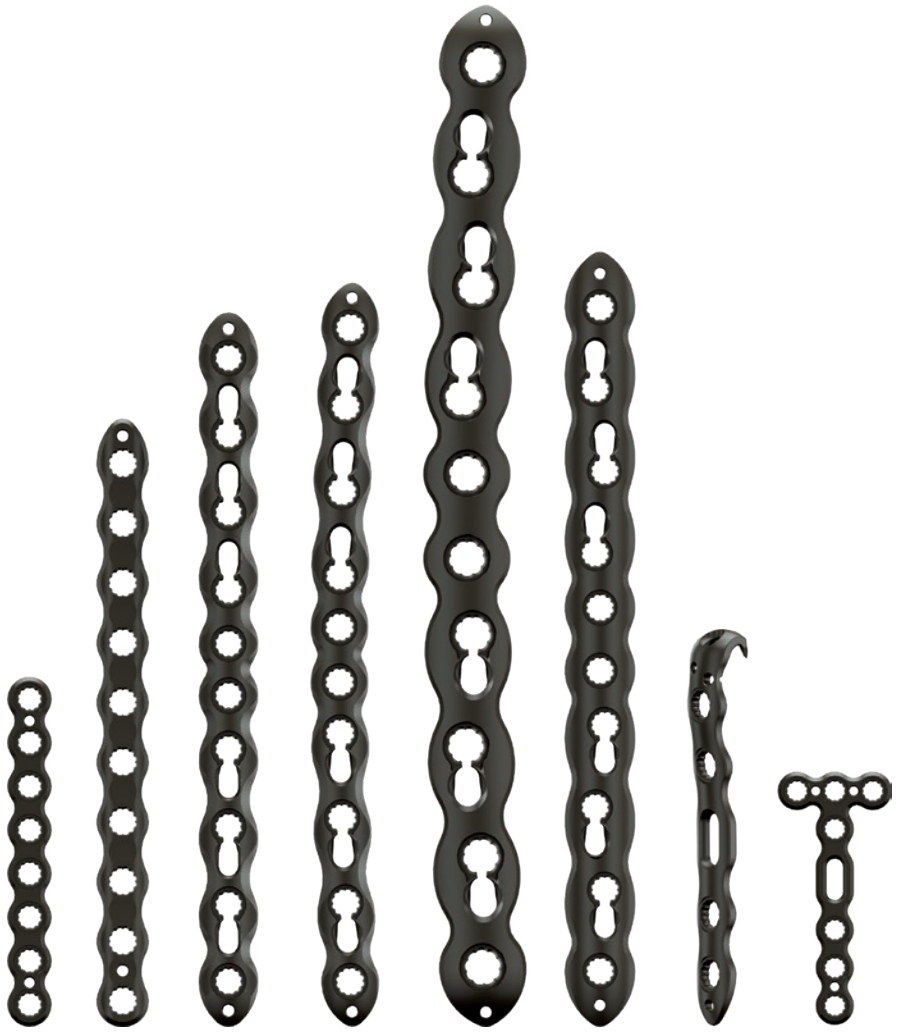
stryker

Pangea™
Utility Plating System

Operative Technique

Small Fragment

Large Fragment



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Contents

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.

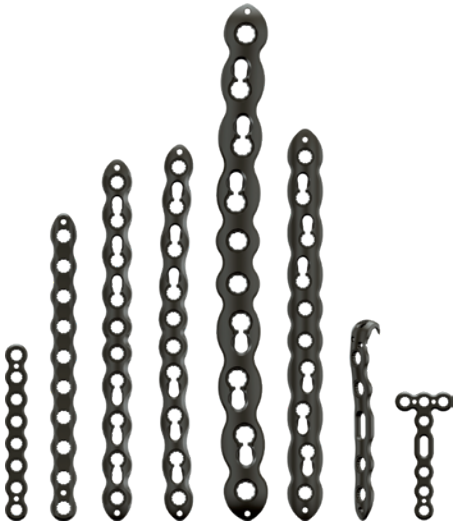
This document is applicable to US and Canada.

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 Utility Plating System indications

The Pangea Utility Plating System 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
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The Pangea Utility Plating System 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.

Compatibility with other systems

Components from the Pangea Utility 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

⚠ WARNING

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.

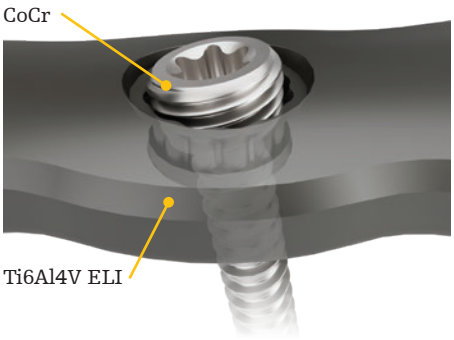
⚠ WARNING

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).

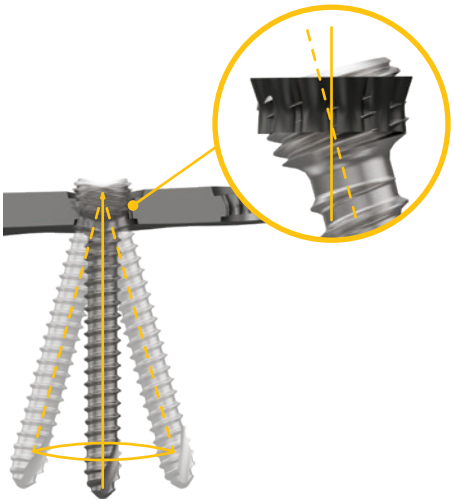


CoCr locking screw and Ti6Al4V ELI plate hole

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.

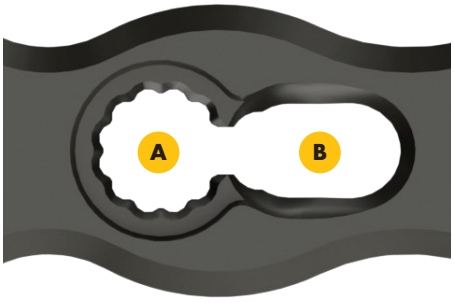


Universal holes offer 30° cone of angulation

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

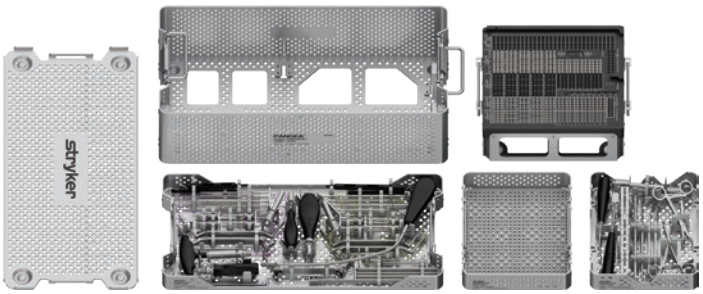
Trays

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.

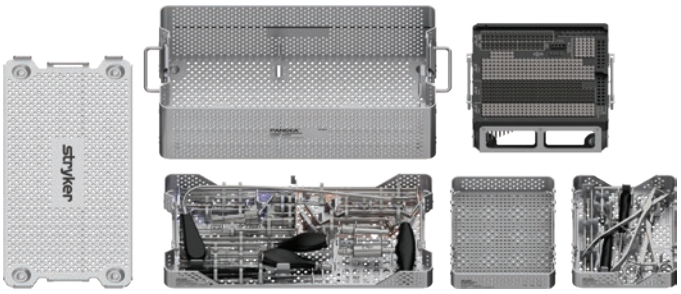
Anatomic and utility plate trays contain plates that will correspond to each color code within the small and large fragment core trays. To complete a case, a surgeon will often need an implant tray and its corresponding core tray.

	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	T15	T20	T20



Pangea Small Fragment Core Tray

T8 T15



Pangea Large Fragment Core Tray

T20

Auxiliary insert and optional inserts

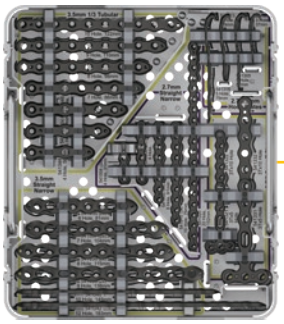
The Pangea small and large fragment core trays are designed to offer users modularity in their set configurations. Each core tray's standard configuration includes an auxiliary insert containing a silicone mat for storage of miscellaneous instrumentation. Listed below are optional inserts that can be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

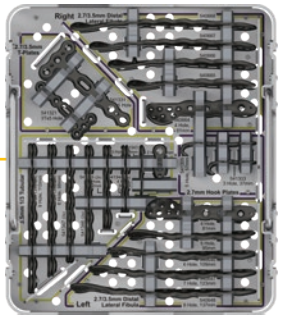
	Auxiliary insert with silicone mat	Small fragment reduction insert	Large fragment reduction insert	Small fragment standard plate insert	Small fragment ankle plate insert	Asnis III 4.0mm cannulated screw insert
Small fragment core tray	✓	✓		✓	✓	✓
Large fragment core tray	✓		✓			✓

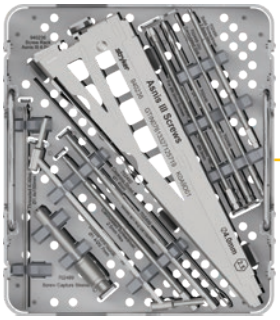
Optional insert configurations

Small fragment utility plate insert

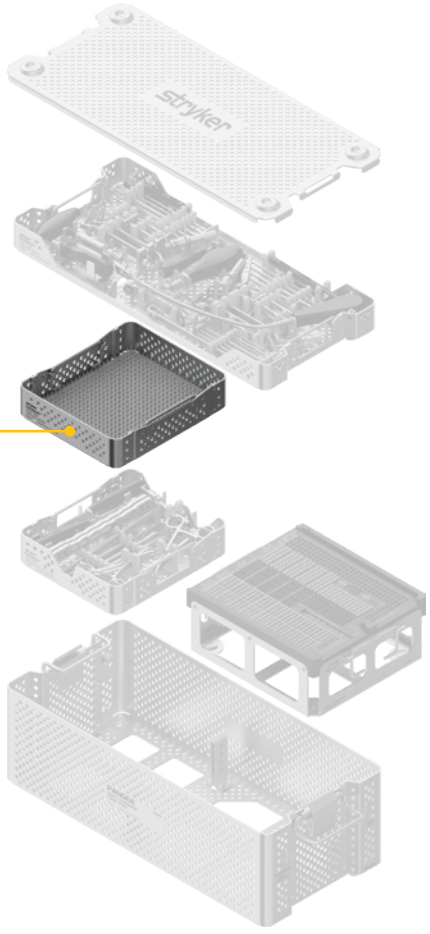


Small fragment ankle plate insert





Asnis III 4.0mm cannulated screw insert



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

Color coding

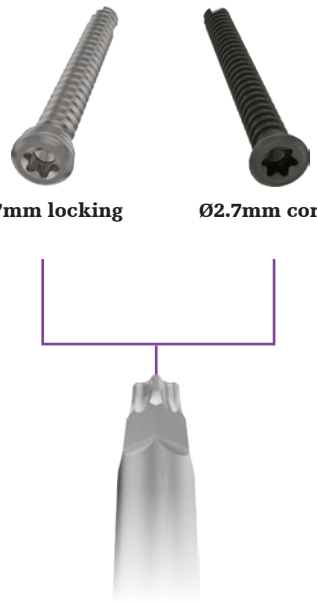
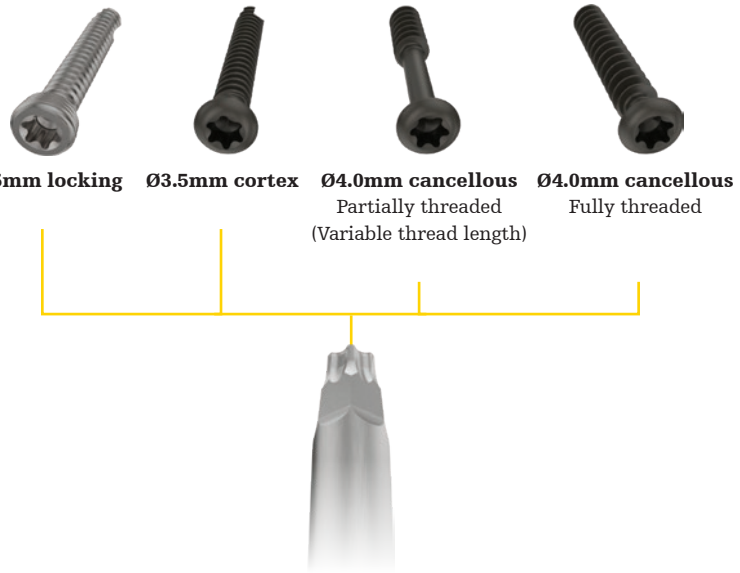
The Pangea systems are color-coded to allow the user to easily identify the proper instrumentation for a particular plate type or screw type. Each color represents the proper drill, drill guide, or screwdriver for a particular screw diameter. The small fragment is color-coded purple for 2.7mm screws 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		T20 Large 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				
Lag screw overdrills				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

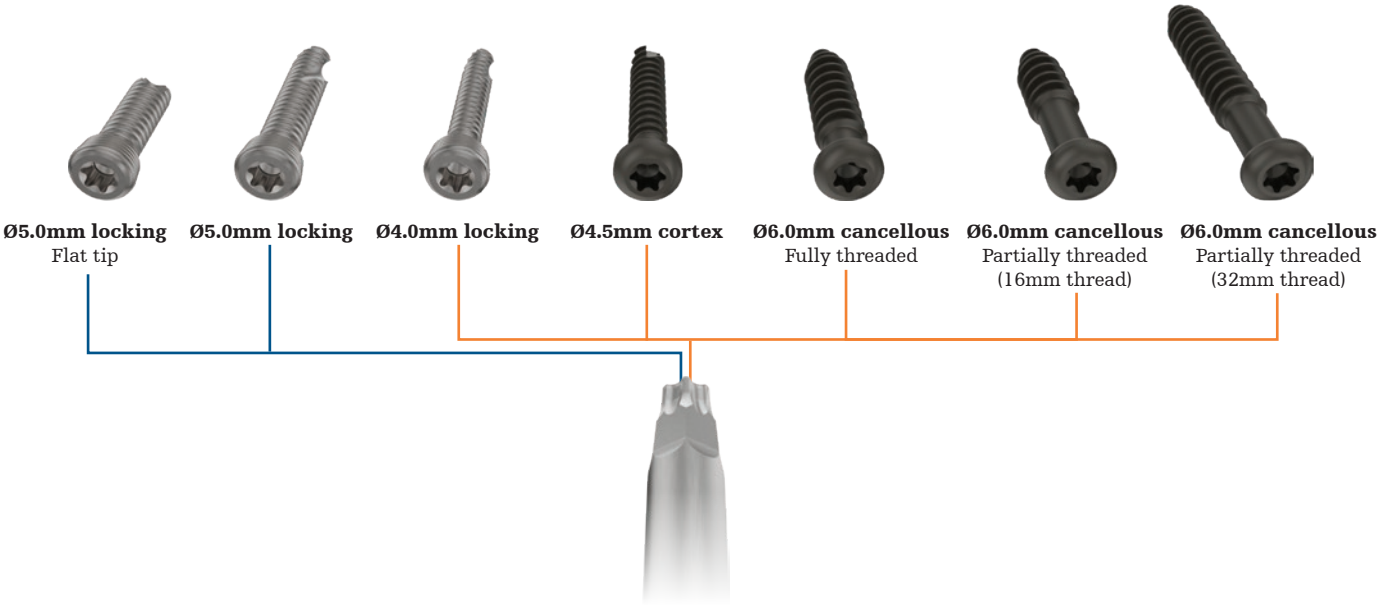
Small fragment core tray set content – 2.7 / 3.5 / 4.0mm screws

T8 torx interface for all 2.7mm screws	T15 torx interface for all 3.5mm screws and 4.0mm cancellous screws
T8 	T15 
 **Ø2.7mm locking** **Ø2.7mm cortex**	 **Ø3.5mm locking** **Ø3.5mm cortex** **Ø4.0mm cancellous** Partially threaded (Variable thread length) **Ø4.0mm cancellous** Fully threaded
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 / 4.0mm screws
Variable angle drill guides	
Compression 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

T20 torx interface for all large fragment screws



4.5mm lag screw drill guide
3.2mm pilot drills for 4.0 / 4.5 / 6.0mm screws 4.3mm pilot drills for 5.0mm screws 4.5mm overdrill for 4.5mm lag screws
Torque limiting handle, 6.0Nm for 4.0mm and 5.0mm locking screws
Depth gauge for T20 4.0/4.5/5.0/6.0mm screws
Variable angle drill guides
Compression drill guide
Fixed angle guides with drill sleeve inserts
Large Delta screwdriver handles with AO quick connect
Calibrated, curved soft tissue elevator with distal suture hole for alternative plate insertion techniques

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).

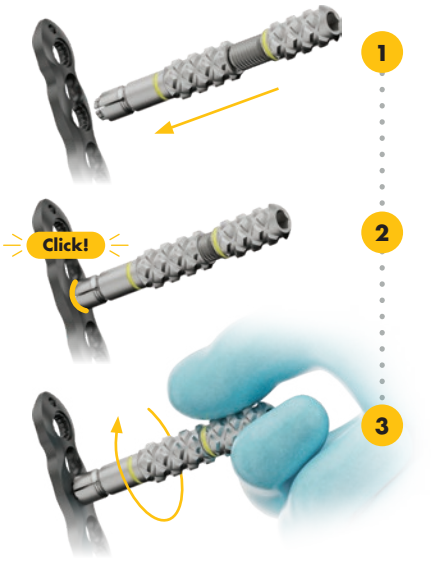


Fig. 1: Fixed angle drill sleeve and insert assembly

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).

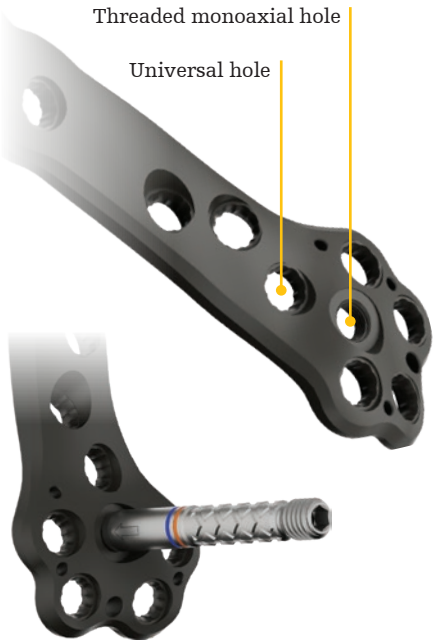


Fig. 2: Threaded guide post placed in threaded monoaxial hole

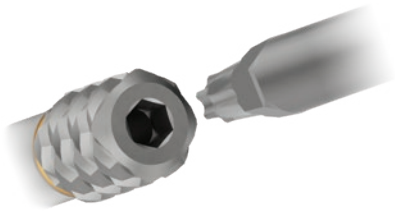


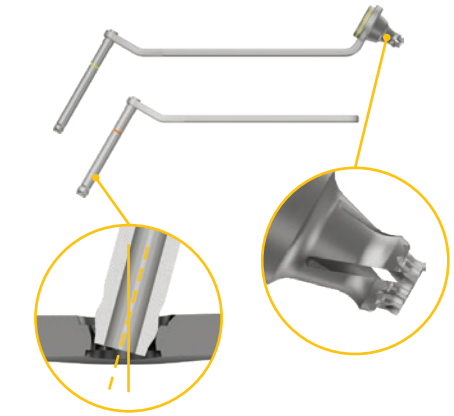
Fig. 3: Hex interface between screwdriver bit, fixed angle drill insert, and T20 threaded guide post

Instrumentation

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.

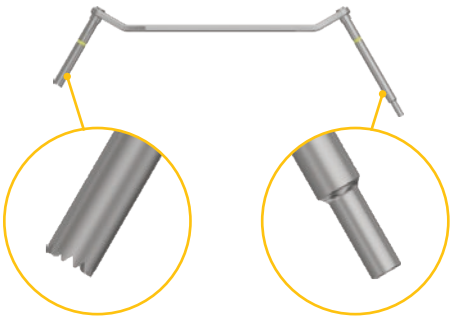
When using the ball end of the guide, gently press the guide into the plate's universal or Hybrid LC Hole. The ball end of the drill guide can be gently rotated in these holes using the handle while maintaining 15° of angulation. For small fragment indications, to ensure a precise 15° angulation, use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

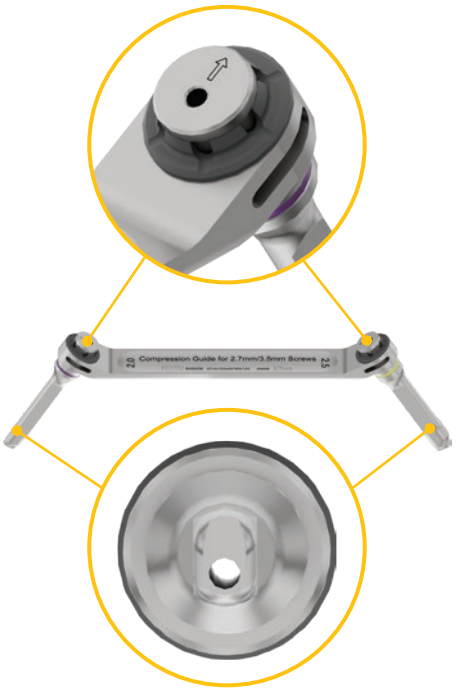
Lag screw drill guides are offered to accommodate 2.7mm, 3.5mm, or 4.5mm lag screws. The color-coded guide features an overdrill sleeve with serrated tip for near cortex drilling and a self-centering pilot drill sleeve to complete the lag screw pilot hole. Lag screws may be placed through a plate or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

Instrumentation

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	
T15	3.5mm	4.0Nm	
T20	4.0mm 5.0mm	6.0Nm	

Screwdriver type	Non-locking screw Ø	Small and large Delta handles
T8 T15 T20	2.7mm 3.5mm 4.0mm 4.5mm 6.0mm	
T8 T15 T20	2.7mm 3.5mm 4.0mm 4.5mm 6.0mm	

Instrumentation

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).

⚠ WARNING

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

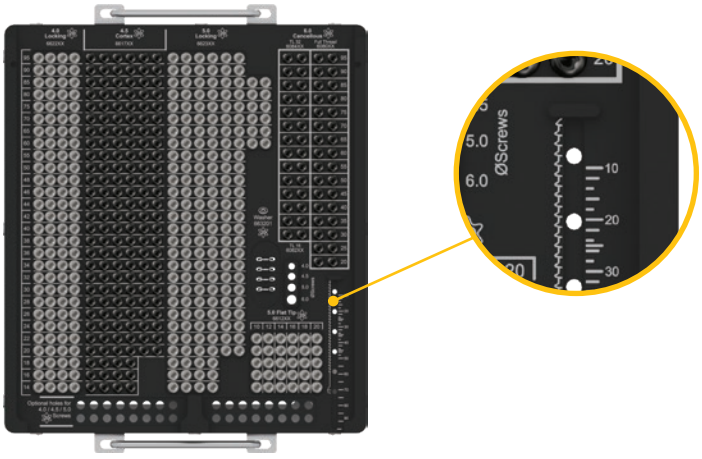


Fig. 3: Screw rack with screw measurement scale

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.

Instrumentation

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).

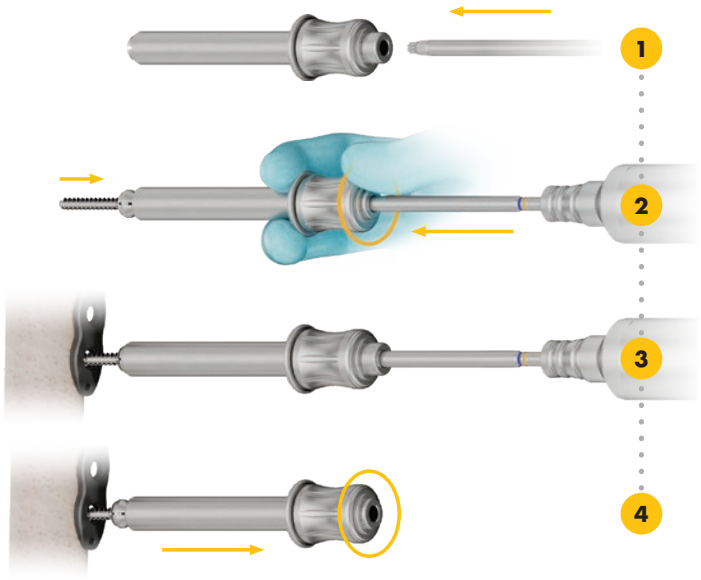


Fig. 1: Screw capture sleeve assembly

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).

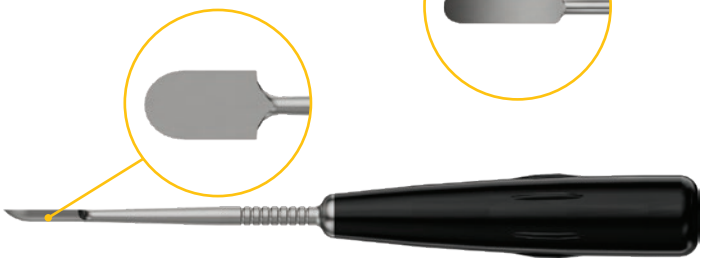
Fig. 4: Temporary plate fixator

Instrumentation

Small fragment reduction instruments and retractors

These instruments facilitate fracture reduction and soft tissue management.

Periosteal elevator, round edge (705294)



Periosteal elevator, flat edge (705295)

Sharp hook (700151)

Straight reduction clamp (705297)

Lobster claw (702932)

Ball spike (700153)

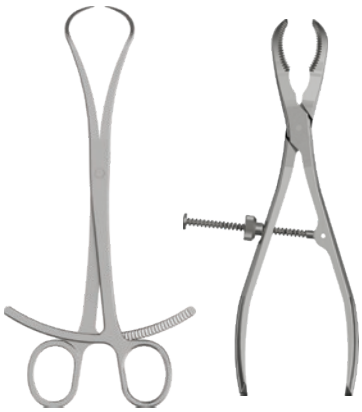
Hohmann retractor 6mm (700664)

Hohmann retractor 15mm (700667)

Large fragment reduction instruments and retractors

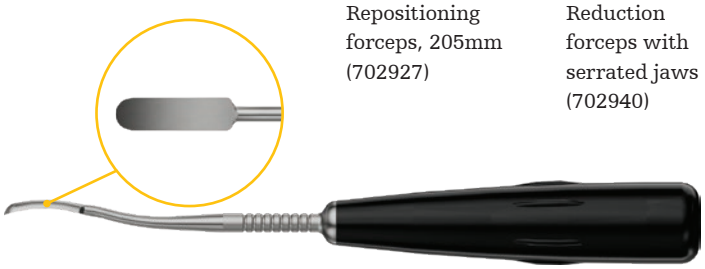
These instruments facilitate fracture reduction and soft tissue management.

T-handle large, AO coupling (700367)



Repositioning forceps, 205mm (702927)

Reduction forceps with serrated jaws (702940)

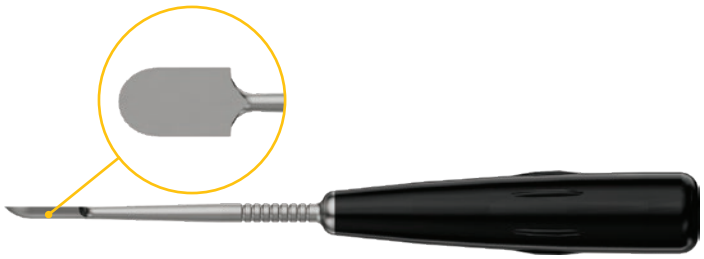


Periosteal elevator, round edge (705294)

Reduction pin, 5.0mm (390083/390084)

Sharp hook (700151)

Ball spike (700153)



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.

⚠ WARNING

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.

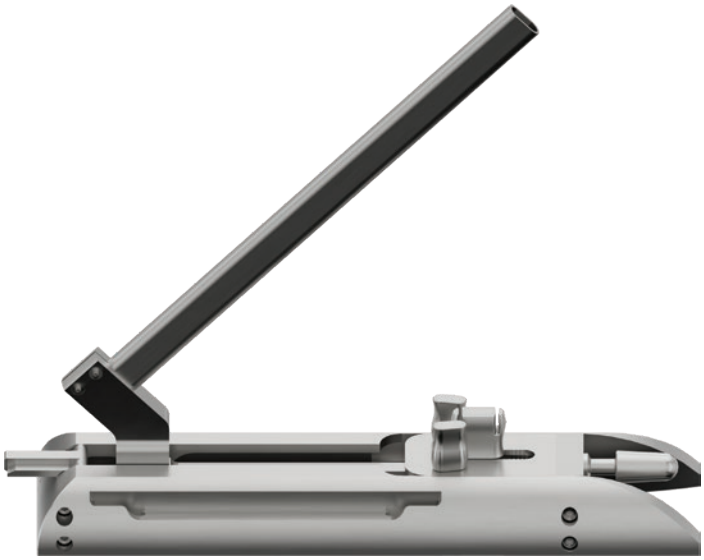


Fig. 3: Table Plate Bender

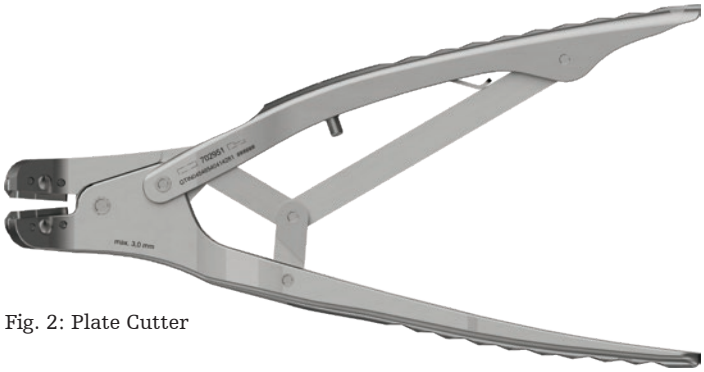


Fig. 2: Plate Cutter

⚠ 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

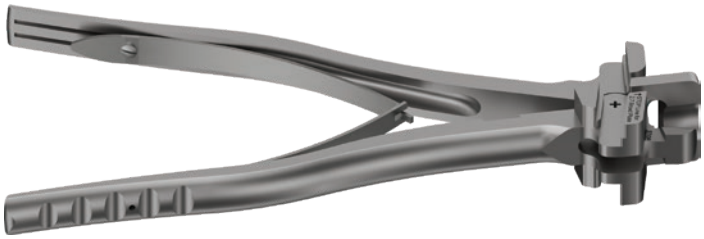


Fig. 4: Plate Bender

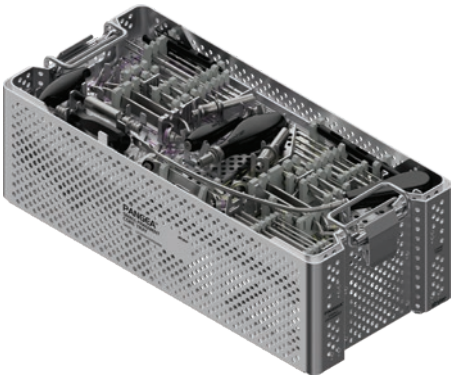
Section 02

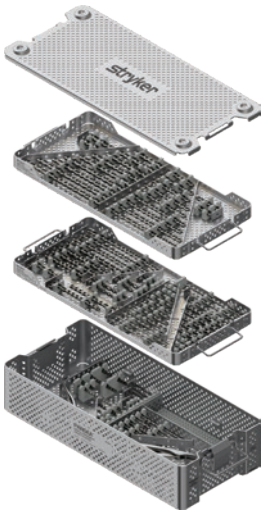
System Overview
Pangea Utility Plating System

Required trays

ORIF utility

This pages details the trays required to use the Pangea Small and Large Fragment Utility Plates.



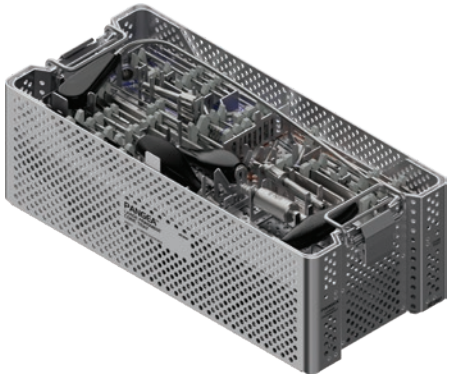


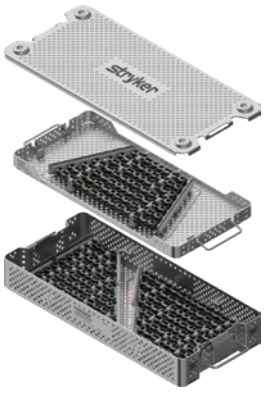
Pangea Small Fragment Core Tray

T8 T15

Pangea Small Fragment Utility Plate Tray

T8 T15





Pangea Large Fragment Core Tray

T20

Pangea Large Fragment Utility Plate Tray

T20

Utility Plate offering

Implants - Plates

T8 2.7mm Utility Plates

Straight Narrow Plates

31mm	4 holes
46mm	6 holes
61mm	8 holes
76mm	10 holes
152mm	20 holes

Straight Broad Plates

38mm	4 holes
62mm	6 holes
86mm	8 holes
110mm	10 holes
134mm	12 holes
158mm	14 holes
174mm	16 holes*
190mm	18 holes*
206mm	20 holes*

T-Plates

51mm	3Tx5 holes
89mm	3Tx10 holes
89mm	5Tx10 holes

Hook Plates

37mm	3 holes
57mm	5 holes
72mm	7 holes

T15 3.5mm Utility Plates

Straight Narrow Plates

29mm	2 holes*
40mm	3 holes*
51mm	4 holes
70mm	5 holes
81mm	6 holes
104mm	7 holes
115mm	8 holes
138mm	9 holes
149mm	10 holes
172mm	11 holes
183mm	12 holes
206mm	13 holes
217mm	14 holes
235mm	16 holes*
253mm	18 holes*
271mm	20 holes*
289mm	22 holes*

Straight Broad Plates

36mm	2 holes*
49mm	3 holes*
62mm	4 holes
79mm	5 holes
92mm	6 holes
113mm	7 holes
126mm	8 holes
147mm	9 holes
160mm	10 holes
181mm	11 holes
194mm	12 holes
215mm	13 holes
228mm	14 holes
250mm	16 holes*
272mm	18 holes*
294mm	20 holes*
316mm	22 holes*

Curved Narrow Plates

115mm	8 holes
138mm	9 holes
149mm	10 holes
172mm	11 holes
183mm	12 holes
206mm	13 holes
217mm	14 holes
235mm	16 holes*
252mm	18 holes*
270mm	20 holes*

T-Plates

77mm	3Tx5 holes
137mm	3Tx10 holes
137mm	5Tx10 holes

* Available sterile packed only

Utility Plate offering

Implants - Plates

T15 3.5mm Utility Plates

Hook Plates

49mm	3 holes
79mm	5 holes
103mm	7 holes

Locking 1/3 Tubular Plates

26mm	2 holes
38mm	3 holes
50mm	4 holes
62mm	5 holes
74mm	6 holes
86mm	7 holes
98mm	8 holes
110mm	9 holes
122mm	10 holes
146mm	12 holes
170mm	14 holes
194mm	16 holes*

SPS Non-Locking 1/3 Tubular Plates

25mm	2 holes*
38mm	3 holes*
51mm	4 holes*
64mm	5 holes*
77mm	6 holes*
90mm	7 holes*
103mm	8 holes*
116mm	9 holes*
129mm	10 holes*
155mm	12 holes*

T20 5.0mm Utility Plates

Straight Narrow Plates

41mm	2 holes*
58mm	3 holes*
75mm	4 holes
99mm	5 holes
116mm	6 holes
143mm	7 holes
160mm	8 holes
188mm	9 holes
205mm	10 holes
232mm	11 holes
249mm	12 holes
277mm	13 holes
294mm	14 holes
324mm	16 holes*

354mm	18 holes*
384mm	20 holes*
414mm	22 holes*

Straight Broad Plates

116mm	6 holes
143mm	7 holes
160mm	8 holes
188mm	9 holes
205mm	10 holes
232mm	11 holes
249mm	12 holes
277mm	13 holes
294mm	14 holes
324mm	16 holes*
354mm	18 holes*
384mm	20 holes*
414mm	22 holes*

Curved Broad Plates

160mm	8 holes
188mm	9 holes
205mm	10 holes
232mm	11 holes
249mm	12 holes
277mm	13 holes
293mm	14 holes
323mm	16 holes*
353mm	18 holes*
383mm	20 holes*
412mm	22 holes*

* Available sterile packed only

Screw offering

Implants - Screws

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

Description	**Ø2.7mm cortex**	**Ø2.7mm locking**
Length (increments)	**8-80mm** 8-50mm (2mm) 50- 80mm (5mm)	**8-80mm** 8-50mm (2mm) 50- 80mm (5mm)
Material	Ti6Al4V ELI	Cobalt-chrome (CoCr) alloy
Locking torque	N/A	1.7Nm
Washer	Washer T8 (40-30900)	N/A
Screwdriver interface	T8 Screwdriver bit, AO, T8 short, 93mm (542011) Screwdriver bit, AO, T8 long, 180mm (542012)	
Angulation	+/-15° (30° cone)	
Pilot drill Ø	Ø2.0mm	
Drill bits	Ø2mm x 135mm (542000) Ø2mm x 175mm (542001)	
Taps	Tap, locking, Ø2.7mm x 125mm (542003) Tap, cortex, Ø2.7mm x 125mm (702801)	

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

T15 Implants - Screws

The following screws are suitable for use with the Pangea Utility 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	Titanium alloy (Ti6Al4V ELI)			Cobalt-chrome alloy (CoCr)
Locking torque	N/A			4Nm
Washer	Washer T15 (663001)			N/A
Screwdriver interface	T15 Screwdriver bit, AO, T15 short, 93mm (542031) Screwdriver bit, AO, T15 long, 180mm (542032)			
Angulation	+/-15° (30° cone)			
Pilot drill Ø	Ø2.5mm			
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)			

The Pangea cable plug (ref 541400S for 3.5mm plates) helps ensure positioning of a cerclage cable (Dall-Miles cable system) on the plate and can prevent slipping in oblique cable applications. These are available sterile only.

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.

Screw offering

Implants - Screws

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

Description	**Ø4.5mm cortex**	**Ø6.0mm cancellous** Partially threaded (16mm thread)	**Ø6.0mm cancellous** Partially threaded (32mm thread)	**Ø6.0mm cancellous** Fully threaded	**Ø4.0mm locking**	**Ø5.0mm locking**	**Ø5.0mm locking** Flat tip
Length (increments)	**14 - 150mm** 14 - 50mm (2mm) 50-150mm (5mm)	**30-150mm** (5mm)	**45-150mm** (5mm)	**20-150mm** (5mm)	**14-95mm** 14 - 50mm (2mm) 50 - 95mm (5mm)	**14-120mm** 14-50mm (2mm) 50-120mm (5mm)	**10-20mm** (2mm)
Material	Titanium alloy (Ti6Al4V ELI)				Cobalt-chrome alloy (CoCr)		
Locking torque	N/A				6Nm		
Washer	Washer T20 (663201)				N/A		
Screwdriver interface	Screwdriver bit, AO, T20 short, 93mm (542066) Screwdriver bit, AO, T20 long, 180mm (542067)						
Angulation	+/-15° (30° cone)						
Pilot drill Ø	Ø3.2mm				Ø4.3mm		
Drill bits	Ø3.2mm x 145mm (542050) Ø3.2mm x 215mm (542051)				Ø4.3mm x 145mm (542052) Ø4.3mm x 215mm (542053)		
Taps	Tap, locking, Ø5mm x 145mm (542057) Tap, locking, Ø4mm x 145mm (542024) Tap, cortex, Ø4.5mm x 145mm (702808) Tap, cancellous, Ø6mm x 180mm (705054)						

The Pangea cable plug (ref 662202S for 5.0mm plates) helps ensure positioning of a cerclage cable (Dall-Miles cable system) on the plate and can prevent slipping in oblique cable applications. These are available sterile only.

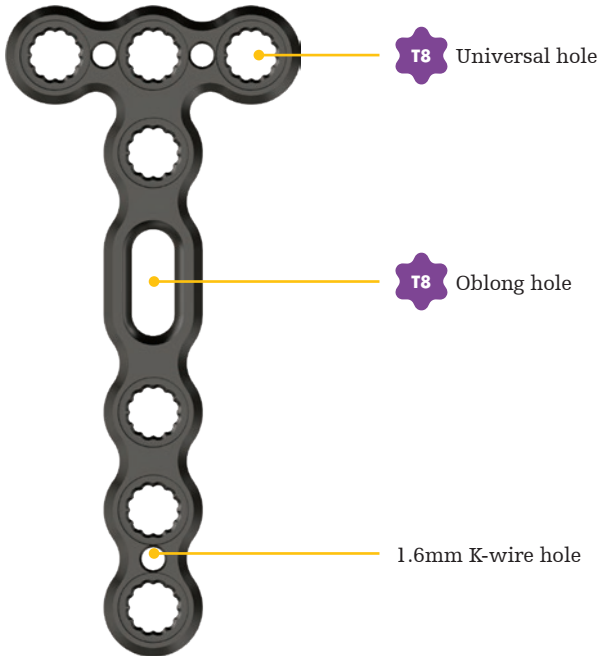
Note: Orange and blue represent the color code for the T20 screws. Ensure that the drill guides, drills, screwdrivers, and depth gauges correspond to the orange or blue color code.

Plate details

Small fragment plates

T-plates

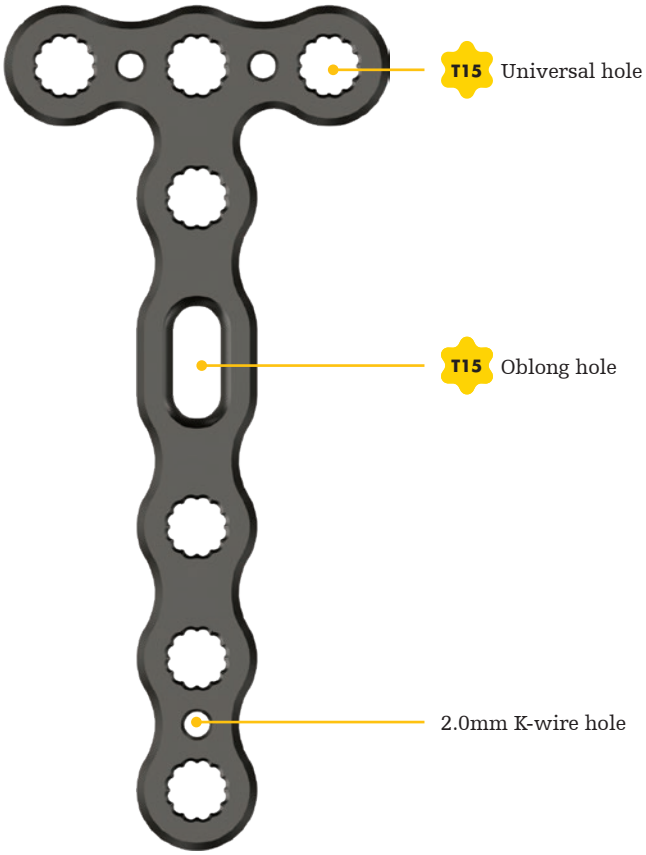
- 2.7mm T8 and 3.5mm T15 options
- Oblong hole for provisional plate fixation and increased non-locking screw trajectory potential in the plane of the oblong hole
- Shaft holes are all universal holes
- 1.6mm K-wire holes for 2.7mm T8 plate and 2.0mm K-wire holes for 3.5mm T15 plate
- Rounded ends designed for insertion under soft tissue



Screw options

T8 – 2.7mm locking and cortex screws.

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



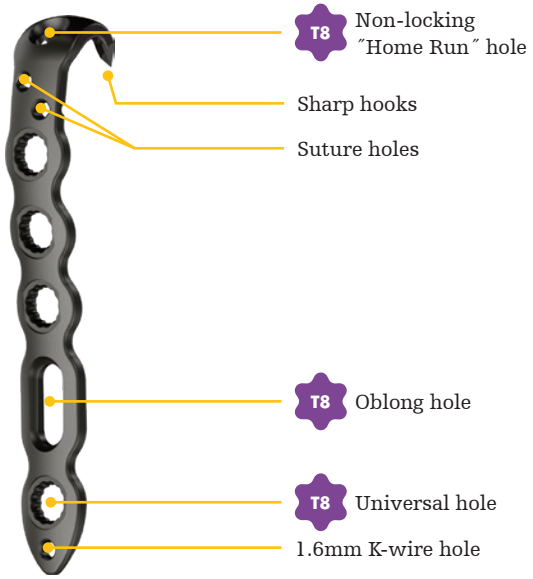
Variable angle locking technology

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

Plate details

Hook-plates

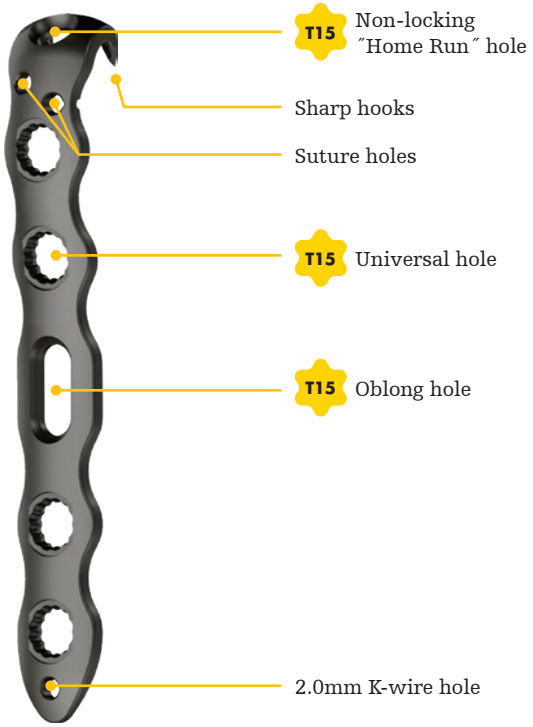
- 2.7mm T8 and 3.5mm T15 options
- Two sharp hooks to aid in bone purchase
- Non-locking screw hole between the sharp hooks allowing for fracture compression with a lag screw i.e., “home run screw”
- 2 suture holes with recess under the plate to allow for suture passing with the plate on the bone or provisional fixation with K-wires
- 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 for 2.7mm T8 plate and 2.0mm K-wire holes for 3.5mm T15 plate
- Rounded ends designed for insertion under soft tissue



Screw options

T8 – 2.7mm locking and cortex screws.

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



Variable angle locking technology

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

Plate details

1/3 Tubular Plates

Pangea 3.5 1/3 Tubular Plate

- T15 universal holes for locking and non-locking screws
- 2.0mm K-wire holes

SPS 1/3 Tubular Plate

- Accepts T15 non-locking screws only
- 2.0mm K-wire holes

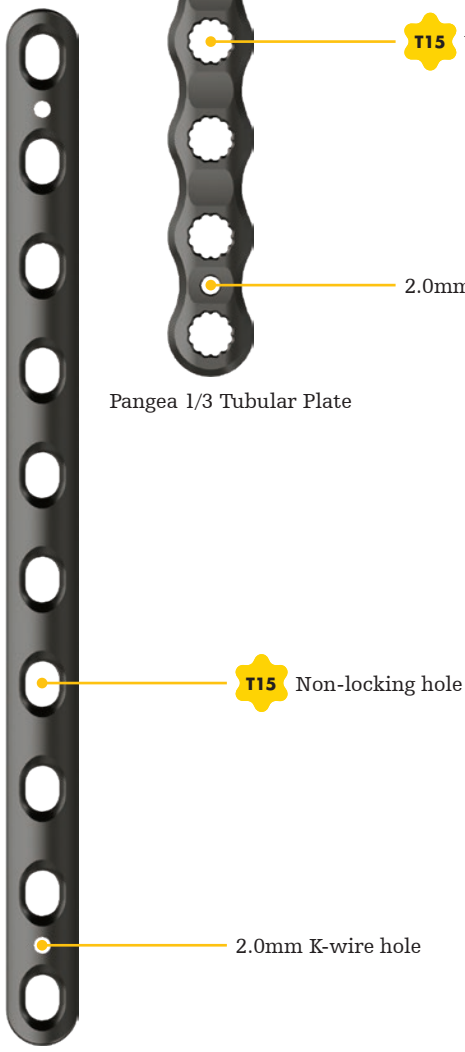
Screw options

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

Variable angle locking technology

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

Pangea 1/3 Tubular Plate



SPS 3.5 1/3 Tubular Plate

Plate details

2.7 Narrow and Broad Plates

2.7 Narrow Plate

- T8 universal holes for locking or non-locking screws
- 1.6mm K-wire holes
- Rounded ends designed for insertion under soft tissue

2.7 Broad Plate

- T8 universal holes for locking or non-locking screws
- Hybrid LC Holes allowing for 2mm of compression
- 1.6mm K-wire holes
- Rounded and tapered ends designed for insertion under soft tissue

Screw options

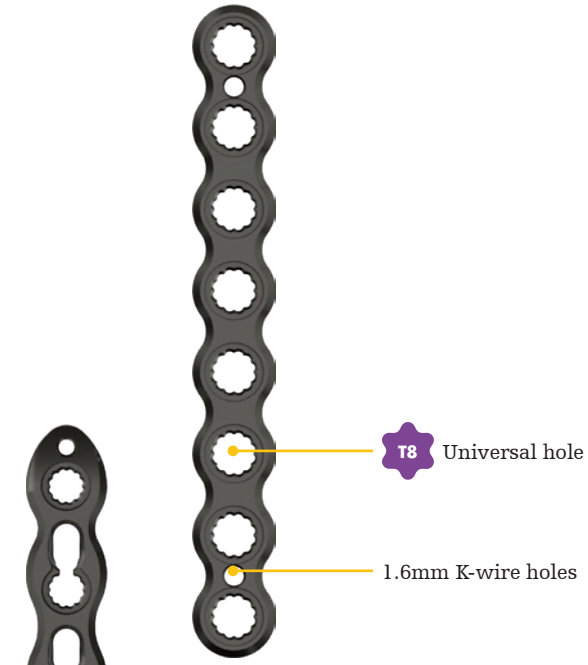
T8 – 2.7mm locking and cortex screws.

Variable angle locking technology

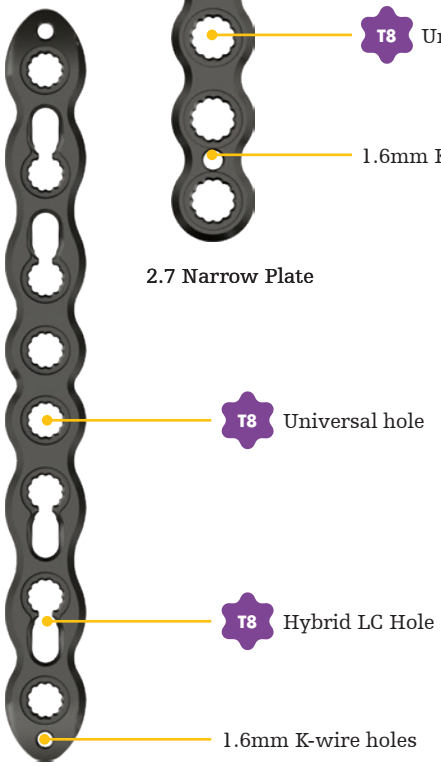
Universal holes that accept both locking and non-locking screws within a 30° cone.

Hybrid LC Holes

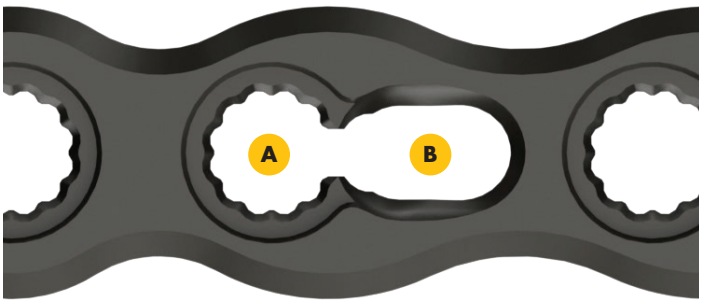
Allows for eccentric drilling and 2mm of compression using a non-locking screw. A locking or non-locking screw may be placed in the universal side of the Hybrid LC Hole.



2.7 Narrow Plate



2.7 Broad Plate



A: Universal: For locking or non-locking screws

B: Compression: For non-locking screws only

Hybrid LC Hole (Broad Plate only)

Plate details

3.5 Narrow and Broad Plates

- T15 universal holes for locking or non-locking screws
- T15 Hybrid LC Holes for 2mm of compression
- Precontoured curved narrow plate
- 2.0mm K-wire holes
- Rounded and tapered ends designed for insertion under soft tissue

Screw options

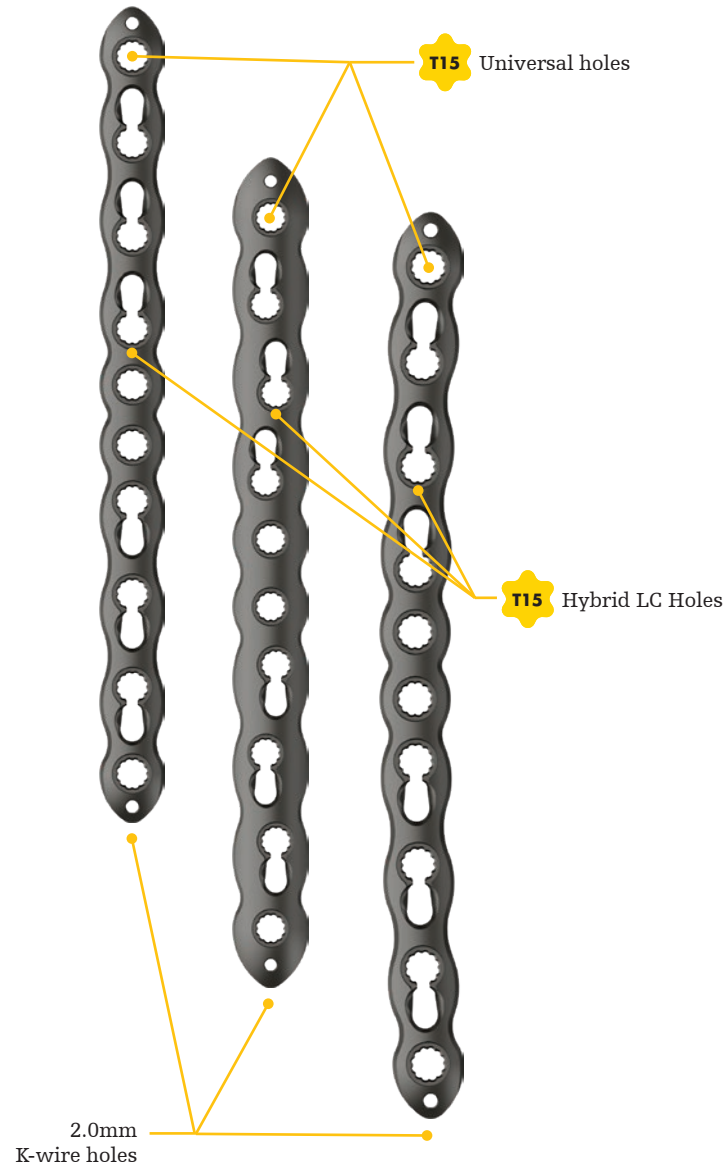
T15 – 3.5mm locking and cortex screws and 4.0mm cancellous screws.

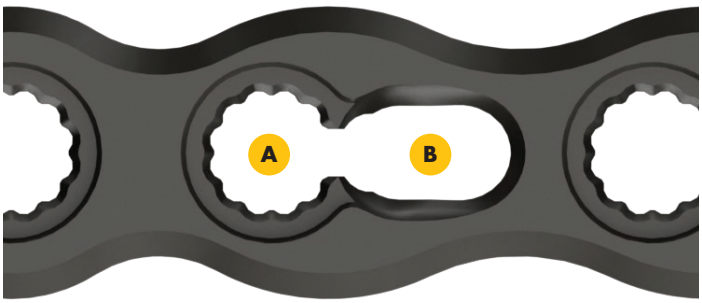
Variable angle locking technology

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

Hybrid LC Holes

Allow for eccentric drilling and 2mm of compression using a non-locking screw. Locking or non-locking screw may be placed in universal side of the Hybrid LC Hole.





A: Universal: For locking or non-locking screws

B: Compression: For non-locking screws only

Hybrid LC Hole (Broad Plate only)

Plate details

Large fragment plates

5.0 Narrow And Broad Plates

- T20 universal holes for locking and non-locking screws
- T20 Hybrid LC Holes for 2mm of compression
- Precontoured curved broad plate
- 2.0mm K-wire holes
- Rounded and tapered ends designed for insertion under soft tissue

Hybrid LC Holes

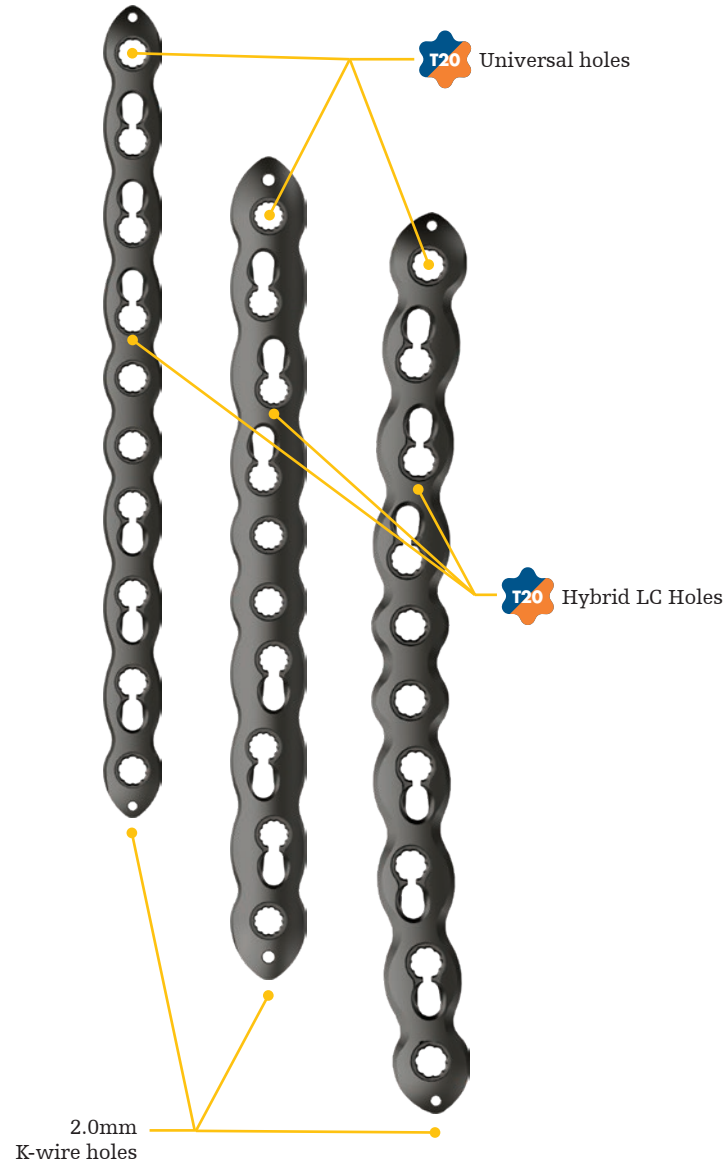
Allow for eccentric drilling and 2mm of compression using a non-locking screw. Locking or non-locking screw may be placed in universal side of the Hybrid LC Hole.

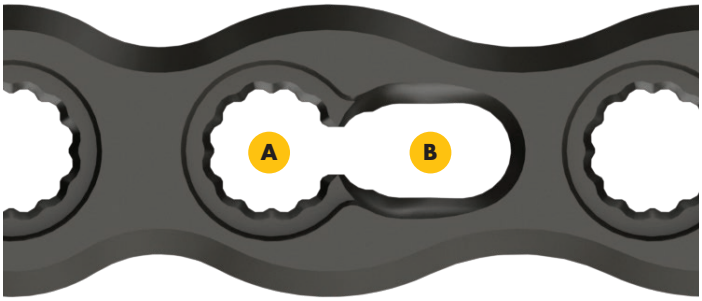
Screw options

T20 – 4.0mm locking, 4.5mm cortex, 5.0mm locking, 6.0mm cancellous screws.

Variable angle locking technology

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





A: Universal: For locking or non-locking screws

B: Compression: For non-locking screws only

Hybrid LC Hole (Broad Plate only)

Section 03

Surgical Protocol
Pangea Utility Plating System

Plate contouring and cutting

The Plate Bender (ref 705143) can be used for both in-plane and out-of-plane bending for all 2.7mm plate sizes. The bender has laser engraving on both sides to aid in identifying which plates may be bent. The stop line laser engraved on the plate bender indicates the maximum allowable in-plane bend for the 2.7mm broad locking plates. In-plane bending of the 2.7mm broad locking plates should not be performed past this stop line (Fig. 1).

Bending Irons (ref 703938) are available and are compatible with the 2.7mm and 3.5mm plates. Note: the bending irons are not compatible with 3.5mm Broad Plate. The bending irons are designed to be used as a pair. The slots allow the iron to slide over the shaft of the plate for ease of bending.

To contour the wide portion of the T-plates, slots at either ends of the bending iron are designed to allow the plate to slide into position for desired bending (Fig. 2).

The plate cutter (ref 702951) may be used to cut all 2.7mm plates, 3.5mm hook plates, and 3.5mm T-plates (Fig. 3).

To bend the 5.0mm utility plates, use the Table Plate Bender (ref 702900) (Fig. 4).

Stop markings In-plane bending Out of plane bending

Fig. 1: Multiple-use plate bender for in plane and out of plane bending

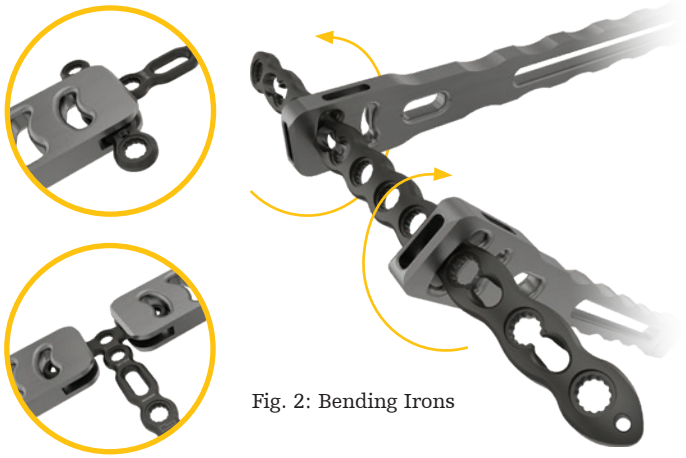


Fig. 2: Bending Irons

Fig. 3: Plate Cutter

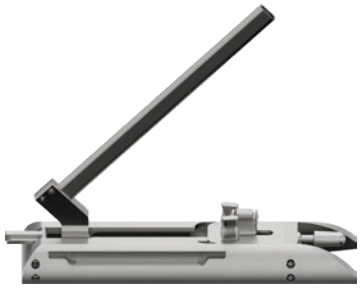


Fig. 4: Table Plate Bender

Plate insertion

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

Using the fixed angle sleeve assembly, the surgeon may insert the Pangea Utility Plate subcutaneously or submuscularly. Once the plate has been inserted, the surgeon may use either plate insertion handle as a joystick to adjust plate positioning (Fig. 2).

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

Ref #	Instrumentation
542005 542006	Fixed angle sleeve, T8 Drill sleeve insert, T8, 60mm, Ø2.0mm
542025 542026	Fixed angle sleeve, T15 Drill sleeve insert, T15, 60mm, Ø2.5mm
542058 542059 542060	Fixed angle sleeve, T20 Drill sleeve insert T20, 60mm, Ø3.2mm Drill sleeve insert T20, 60mm, Ø4.3mm

⚠ CAUTION

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

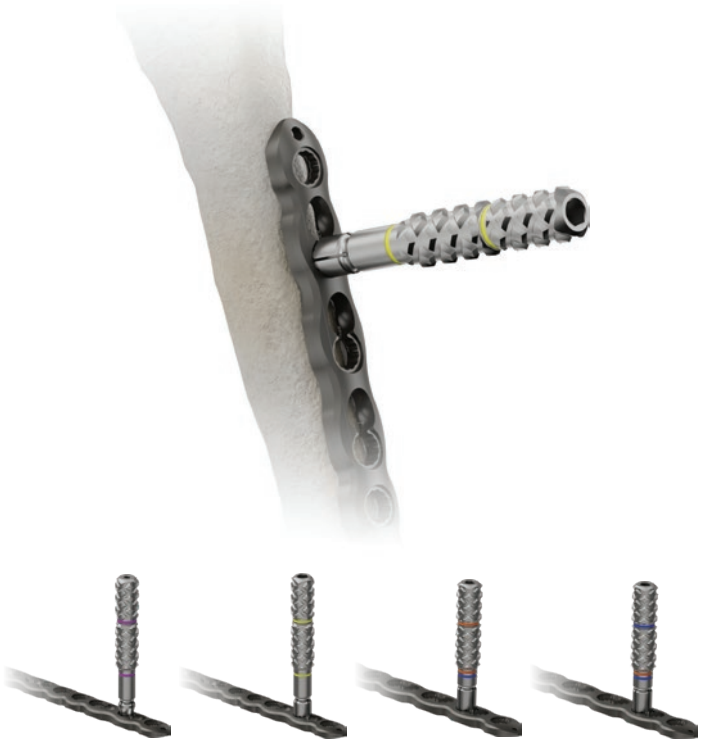


Fig. 1: Fixed angle sleeve assembly used as a plate insertion handle or joystick

Fig. 2: Fixed angle sleeve assembly used as a joystick for final plate adjustment

Provisional plate fixation

Provisional plate fixation can be achieved in various ways:

- Ø1.6mm Olive K-wire can be placed in any of the holes in the small fragment utility plates
- Ø1.6mm K-wire placed through the 2.7mm utility plate K-wire holes
- Ø2.0mm K-wire placed through the 3.5mm and 5.0mm utility plate K-wire holes
- Ø2.0mm K-wire placed through the fixed angle sleeve and drill sleeve insert, or for a 5.0mm plate, use the 2.0mm K-wire sleeve insert
- Appropriately sized cortex screw placed in the oblong hole of the hook and T-plates
- Temporary plate fixator (for T15 and T20 holes only)

Note: When using a K-wire to provisionally fixate the plate through the T20 fixed angle sleeve assembly or threaded guide post, the Ø2.0mm K-wire sleeve insert may be used to center the K-wire (Fig. 2).

⚠ CAUTION

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.

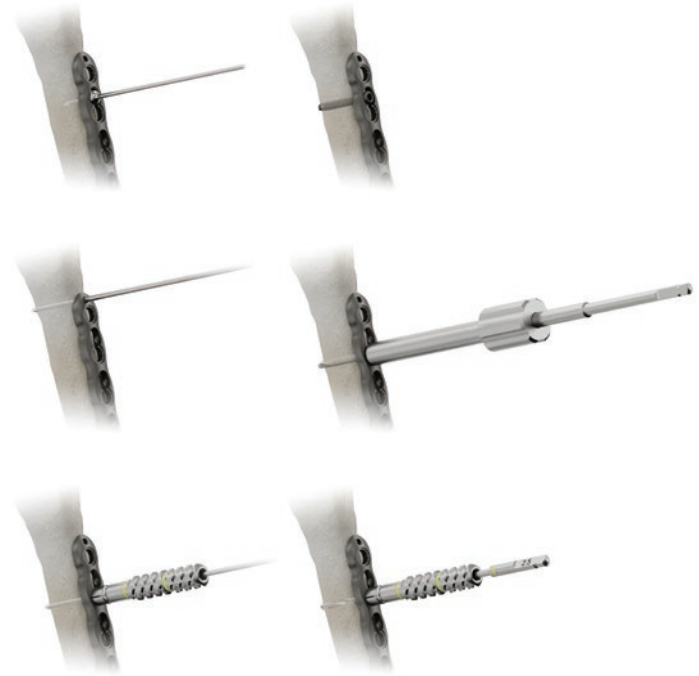


Fig.1: Provisional fixation options

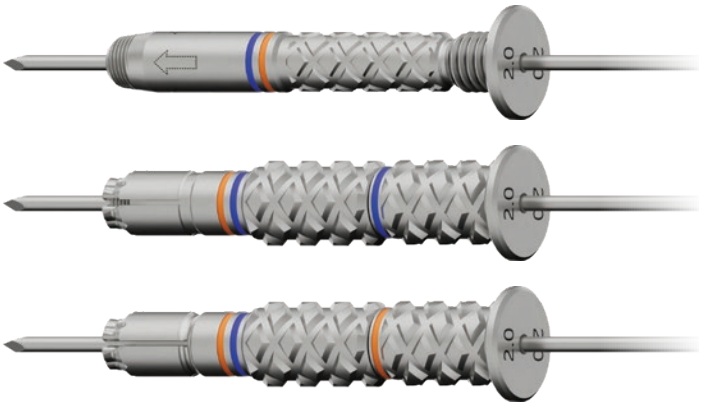


Fig. 2: The 2.0mm K-wire sleeve insert is only compatible with the T20 fixed angle sleeve assemblies and T20 threaded guide post

Provisional plate fixation

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. 1). 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. 2).

Once the device is inserted through the far cortex (Fig. 3), the threaded outer sleeve resting on the plate is turned clockwise until the desired plate position is achieved (Fig. 4).

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.

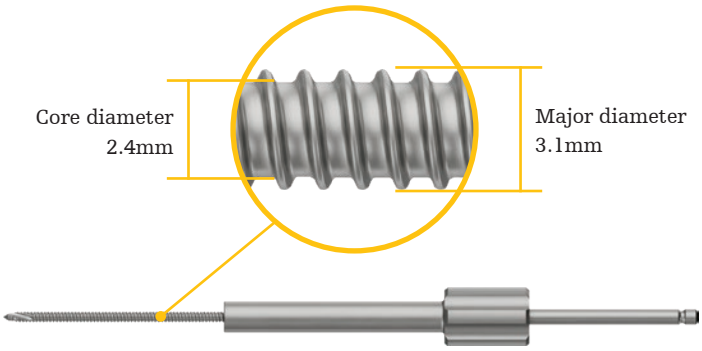


Fig. 1: Temporary plate fixator

Fig. 2

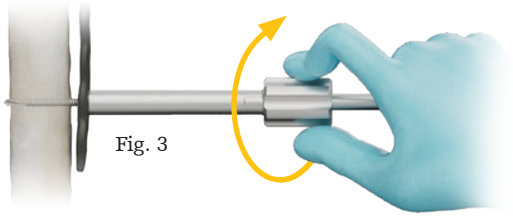


Fig. 3

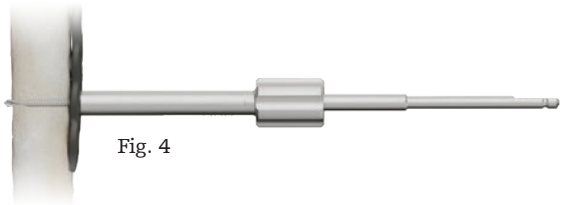


Fig. 4

Note: Temporary plate fixator is not to be used with 2.7mm plates 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 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 appropriate variable angle drill guide (Fig. 2).

Next, using the appropriate drill bit, 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 appropriate depth gauge or the drill bit calibrations. The selected screw is then inserted into the pilot hole using the appropriate screwdriver bit (Fig. 4).

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

⚠ CAUTION

Use bi-cortical fixation when possible.

⚠ CAUTION

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

⚠ CAUTION

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

⚠ CAUTION

It is recommended to place a minimum of three screws bicortically both proximal and distal to the fracture.

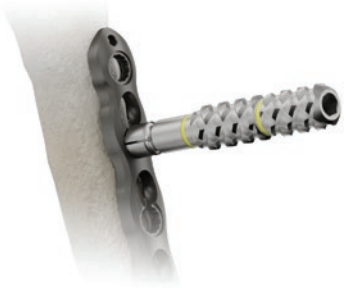


Fig. 1: Fixed angle sleeve assembly for predetermined screw trajectory

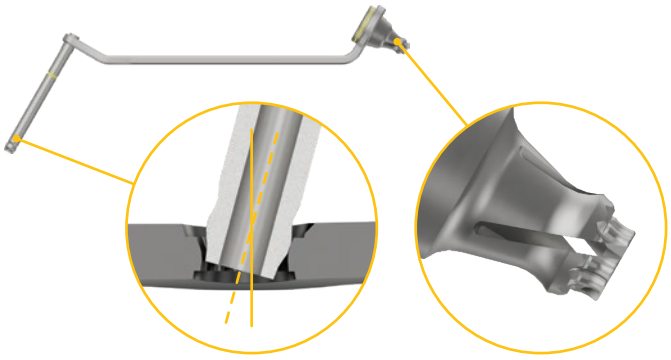


Fig. 2: Variable angle drill guide for variable angle drilling

Fig. 3: Drill pilot hole with appropriate 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 bi-cortical 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 appropriate 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 appropriate variable angle drill guide (Fig. 2).

Next, using the appropriate drill bit, 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 either the appropriate depth gauge or the drill bit calibrations. The selected screw is then inserted into the pilot hole using the appropriate screwdriver bit.

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

Use the appropriate torque limiter and 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).

Locking screw	Screwdriver type	Torque
2.7mm locking	T8	1.7Nm
3.5mm locking	T15	4.0Nm
4.0mm and 5.0mm locking	T20	6.0Nm

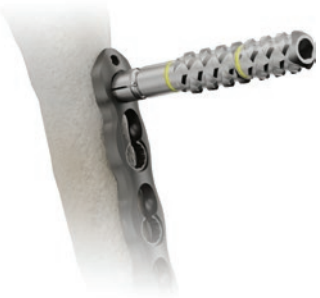


Fig. 1: Fixed angle sleeve assembly for predetermined screw trajectory

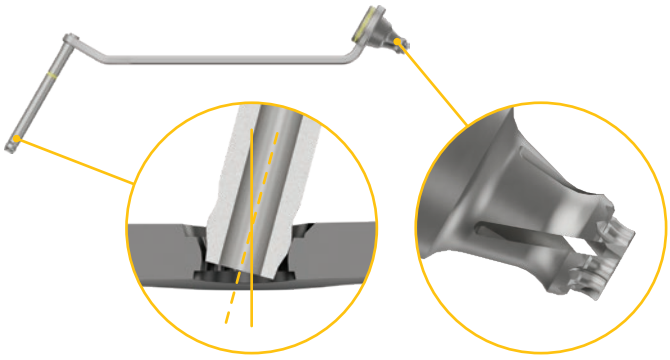


Fig. 2: Variable angle drill guide for variable angle drilling

Fig. 3: Drill pilot hole with appropriate drill bit

Fig. 4: Screw placement with appropriate torque limiter

⚠ WARNING

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.

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).

Step 1a

Step 1b

Step 2a

Step 2b

Step 3a

Step 3b

Compression technique

Once the plate is centered over the fracture, insert an appropriate sized locking or non-locking screw in one of the universal holes on either side of the fracture using the technique described on pages 36 and 37 (Fig. 1).

Next, choose a Hybrid LC Hole on the opposite side of the fracture to obtain compression. The chosen hole is normally the one closest to the fracture. Use the appropriate compression drill guide and pilot drill to drill a hole in the compression section of the Hybrid LC Hole (Fig. 2).

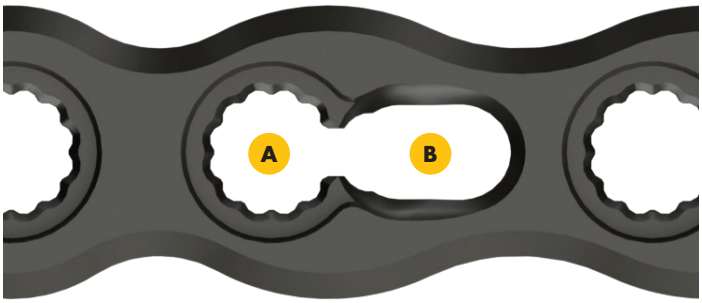
The arrow etched onto the compression drill guide barrel must be aiming toward the fracture line to correctly drill the hole (Fig. 3).

Measure the screw depth and insert the non-locking screw until fully seated, but prior to firmly tightening the screw, remove any provisional plate fixation on this side to allow for sliding of the plate in relation to the bone. Then, firmly tighten the screw. The maximum compression per Hybrid LC Hole is approximately 2mm (Fig. 4).

After desired compression is achieved, any additional screws are to be inserted in the neutral position (Fig. 5).

Ref #	Instrumentation
542009	Compression drill guide, T8 / T15, Ø2.0mm / Ø2.5mm
542064	Compression drill guide, T20, Ø3.2mm

Fig. 1: Insert screw in universal hole on either side of fracture



A: Universal: For locking or non-locking screws

B: Compression: For non-locking screws only

Fig 2. Hybrid LC Hole

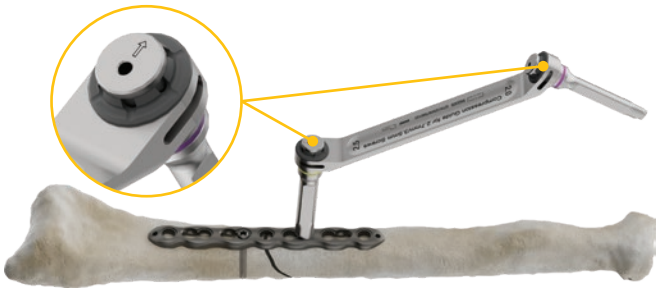


Fig. 3: Compression guide inserted into Hybrid LC Hole with arrows directed towards fracture site

Fig. 4: Placement of non-locking screw providing compression

Fig. 5: Additional screws are populated

Note: If further compression is required, another compression screw may be used on the initial neutral side of the fracture provided that the initial neutral screw is removed from the plate before seating the additional compression screw.

Hook plates

The hook plates are intended for reduction and fixation of small bone fragments. See page 34-35 for initial plate fixation.

In hard bone, it may be useful to drill two pilot holes in the position of the hooks to facilitate compression of the fracture and minimize soft tissue irritation. The 2.0mm drill is recommended to be used.

The universal holes allow for placement of locking and non-locking screws within a true 30° cone. The oblong hole in the center of the 5 and 7 hole hook plates allows provisional placement and adjustment of the plate before definitive fixation.

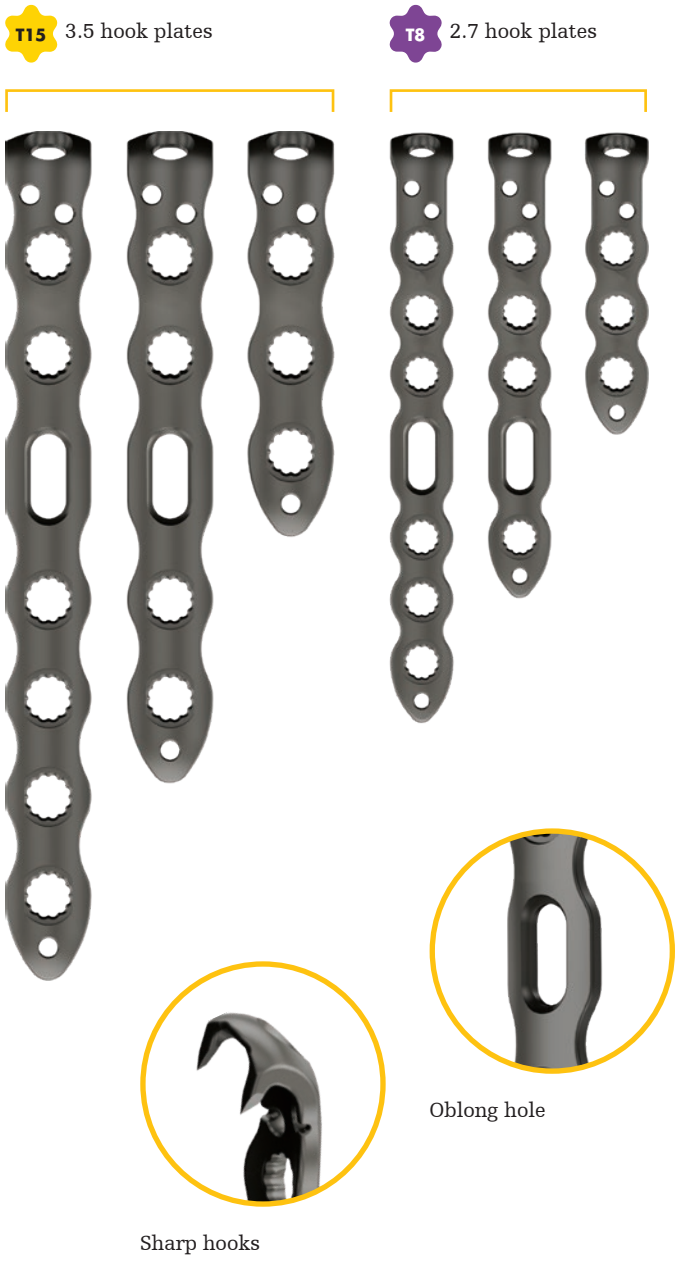
Proper seating of the hook plate is primarily achieved by manual compression or gentle tapping of the plate. Once compression is applied, the sharp hooks of the plate anchor into the bone-- capturing small bone fragments at the distal or proximal epiphysis.

See page 36-37 for guidance on how to insert locking screws. For the oblong hole, it is recommended to use the round tipped portion of the appropriate variable angle drill guide for determining the trajectory of a non-locking screw.

⚠ CAUTION

Be careful while implanting the sharp hook-plate not to damage soft tissue or injure vessels.

Placement of hook plate



Oblong hole

Sharp hooks

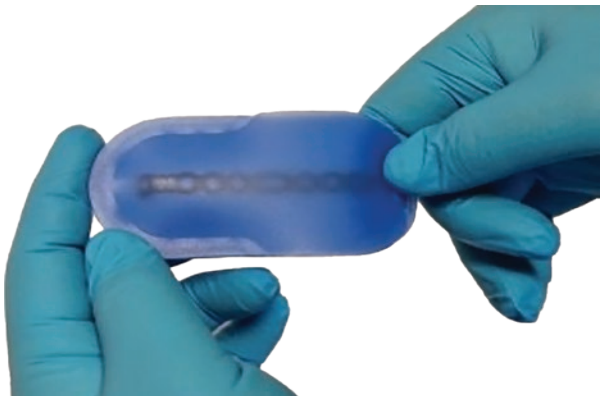
Hook plates

Sterile hook plate packaging

The sterile hook plates are packaged in a sterile barrier system consisting of a peel pouch and includes a sheath that protects the implant and the sterile barrier during transport and handling.

After sterile barrier system is removed from the protective box, the pouch is peel opened to access the sheath, which is introduced into the sterile field.

The sheath then opened through the perforation in the lid, allowing safe access to the implant.



Cables and cable plugs

Cable plug insertion

In any universal hole, cable plugs can be utilized in conjunction with Ø2.0mm vitallium cables from the Dall-Miles cable system.

The use of a cable plug helps to ensure positioning of a cerclage cable (Dall-Miles cable system) on the plate and can prevent slipping in oblique cable applications. These are only available in sterile packaging.

Insert a cable plug by “clicking” it into the desired screw hole and confirming its placement through an audible “click”. The cable plug is still able to freely rotate after proper placement in the universal hole.

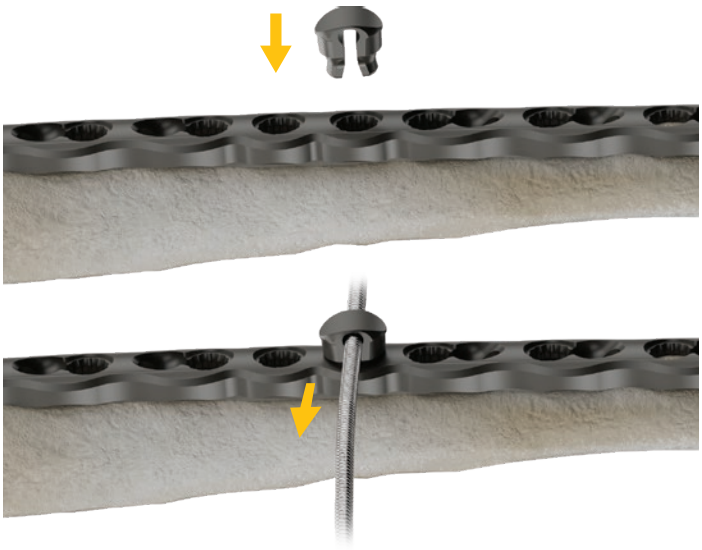
Insert a cable through the eyelet of the cable plug, tighten the cable, and crimp the sleeve. Cut the cable near the crimped sleeve.

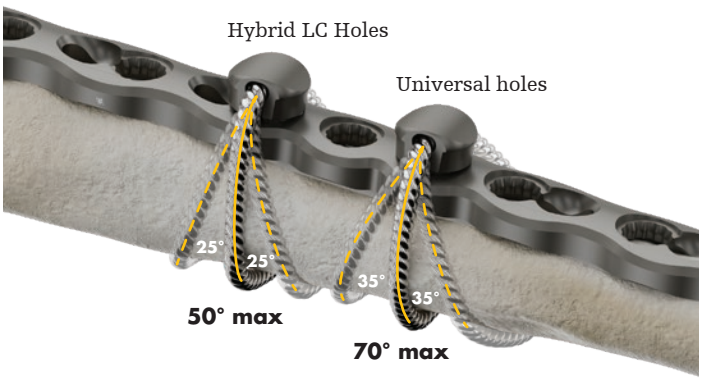
For complete instructions, refer to the Dall-Miles cabling system operative technique (DALLM-SP-1_21060).

Ref #	Instrumentation
541400S	3.5mm cable plug
662202S	5.0mm cable plug
6704-0-520	Ø2.0mm Vitallium beaded cable / sleeve set
6704-9-320	Single sided tensioner
6704-9-150	Crimp tool
6704-9-420	Cable cutter

Cable plug removal

If a cable plug has to be removed, simply cut or remove the cable and pull out the cable plug using forceps. The cable plug can be re-seated up to 3 times intraoperatively.





⚠ CAUTION

Do not exceed plate/cable plug relative angulation of 35° from the screw hole axis for universal holes and 25° from the screw hole axis for hybrid holes.

Final constructs

Final fluoroscopic check

After final fixation of the plate with all screws, the bone should be inspected under fluoroscopy; the true distance of all screws should be inspected in the AP and lateral views to ensure none of the screws have penetrated the joint or are prominent.

⚠ WARNING

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

Implant removal

Removal of the Pangea Utility 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.

NOTICE In the extreme event of broken or stripped screws, the Stryker implant extraction set (literature number IES-ST-1) includes a variety of broken screw removal instruments.

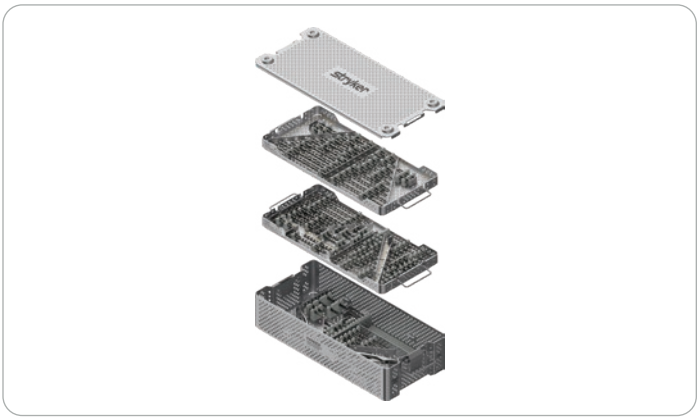
Section 04

System Components

System components

Pangea Small Fragment Utility 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
542216	Small Fragment Utility Plate Tray Base
542217	Small Fragment Utility Plate Tray Insert 1
542178	Small Fragment Utility Plate Tray Insert 2
542219	Silicone Mat, Sm Frag Utility Plate Tray

2.7 Straight Narrow Plates

Ref #	Length (mm)	Holes
541004	31	4
541006	46	6
541008	61	8

Ref #	Length (mm)	Holes
541010	76	10
541020	152	20

2.7 Straight Broad Plates

Ref #	Length (mm)	Holes
541104	38	4
541106	62	6
541108	86	8
541110	110	10
541112	134	12

Ref #	Length (mm)	Holes
541114	158	14
541116S*	174	16
541118S*	190	18
541120S*	206	20

*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

System components

3.5 Straight Narrow Plates

Ref #	Length (mm)	Holes
541032S*	29	2
541033S*	40	3
541034	51	4
541035	70	5
541036	81	6
541037	104	7
541038	115	8
541039	138	9
541040	149	10

Ref #	Length (mm)	Holes
541041	172	11
541042	183	12
541043	206	13
541044	217	14
541046S*	235	16
541048S*	253	18
541050S*	271	20
541052S*	289	22

3.5 Straight Broad Plates

Ref #	Length (mm)	Holes
541132S*	36	2
541133S*	49	3
541134	62	4
541135	79	5
541136	92	6
541137	113	7
541138	126	8
541139	147	9
541140	160	10

Ref #	Length (mm)	Holes
541141	181	11
541142	194	12
541143	215	13
541144	228	14
541146S*	250	16
541148S*	272	18
541150S*	294	20
541152S*	316	22

3.5 Curved Narrow Plates

Ref #	Length (mm)	Holes
541238	115	8
541239	138	9
541240	149	10
541241	172	11
541242	183	12

Ref #	Length (mm)	Holes
541243	206	13
541244	217	14
541246S*	235	16
541248S*	252	18
541250S*	270	20

*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

System components

2.7 Hook Plates

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

Ref #	Length (mm)	Holes
541307	72	7

3.5 Hook Plates

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

Ref #	Length (mm)	Holes
541317	103	7

2.7 T-Plates

Ref #	Length (mm)	Holes
541321	51	3Tx5
541322	89	3Tx10

Ref #	Length (mm)	Holes
541323	89	5Tx10

3.5 T-Plates

Ref #	Length (mm)	Holes
541331	77	3Tx5
541332	137	3Tx10

Ref #	Length (mm)	Holes
541333	137	5Tx10

3.5 1/3 Tubular Plates

Ref #	Length (mm)	Holes
541342	26	2
541343	38	3
541344	50	4
541345	62	5
541346	74	6
541347	86	7

Ref #	Length (mm)	Holes
541348	98	8
541349	110	9
541350	122	10
541352	146	12
541354	170	14
541356S*	194	16

SPS 1/3 Tubular Plates

Ref #	Length (mm)	Holes
621122S*	25	2
621123S*	38	3
621124S*	51	4
621125S*	64	5
621126S*	77	6

Ref #	Length (mm)	Holes
621127S*	90	7
621128S*	103	8
621129S*	116	9
621130S*	129	10
621132S*	155	12

*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

System components

Pangea Large Fragment Utility Plate Tray

The information in the 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
542221	Large Fragment Utility Plate Tray Base
542222	Large Fragment Utility Plate Tray Insert

5.0 Straight Narrow Plates

Ref #	Length (mm)	Holes
541062S*	41	2
541063S*	58	3
541064	75	4
541065	99	5
541066	116	6
541067	143	7
541068	160	8
541069	188	9
541070	205	10

Ref #	Length (mm)	Holes
541071	232	11
541072	249	12
541073	277	13
541074	294	14
541076S*	324	16
541078S*	354	18
541080S*	384	20
541082S*	414	22

5.0 Straight Broad Plates

Ref #	Length (mm)	Holes
541166	116	6
541167	143	7
541168	160	8
541169	188	9
541170	205	10
541171	232	11
541172	249	12

Ref #	Length (mm)	Holes
541173	277	13
541174	294	14
541176S*	324	16
541178S*	354	18
541180S*	384	20
541182S*	414	22

*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

System components

5.0 Curved Broad Plates

Ref #	Length (mm)	Holes
541268	160	8
541269	188	9
541270	205	10
541271	232	11
541272	249	12
541273	277	13

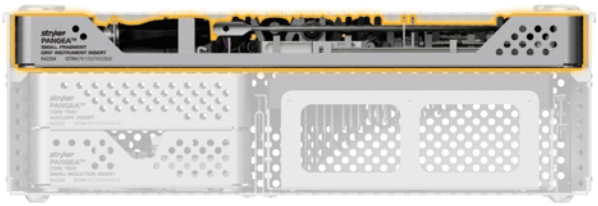
Ref #	Length (mm)	Holes
541274	293	14
541276S*	323	16
541278S*	353	18
541280S*	383	20
541282S*	412	22

*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

System components

Pangea Small Fragment Core Tray

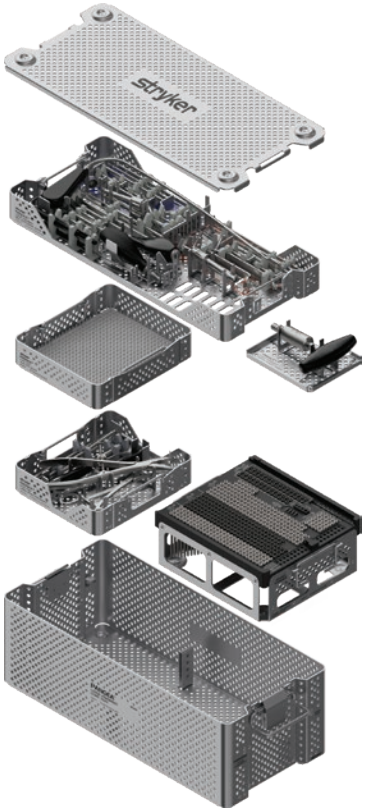
Top level consisting of the instruments listed below:



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



System components

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

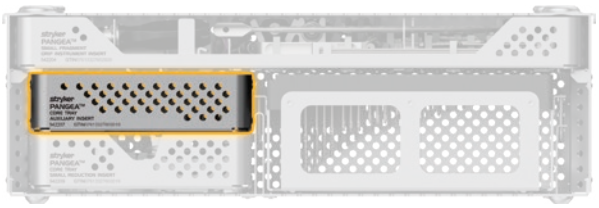
Ref #	Description
542014	Torque limiting Delta handle, AO, T8 1.7Nm
542034	Torque limiting T-handle, AO, T15 4.0Nm

System components

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.

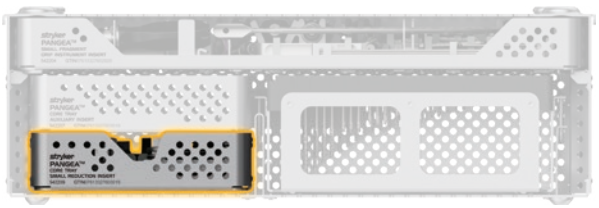


Ref #	Description
542207	Core tray auxiliary insert
542208	Silicone mat, auxiliary insert

System components

Pangea Small Fragment Core Tray - Instruments

Third level consisting of the instruments listed below:



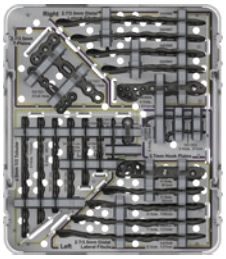
Ref #	Description
542209	Core tray small reduction insert

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

System components

Pangea Small Fragment Core Tray - Optional ankle insert



Ref #	Description
542248	Core tray ankle plate insert

Implants

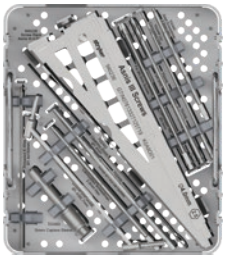
Ref #	Description	
540644	Distal lateral fibula plate, L	2.7/3.5mm, 81mm/4 holes
540664	Distal lateral fibula plate, R	2.7/3.5mm, 81mm/4 holes
540645	Distal lateral fibula plate, L	2.7/3.5mm, 95mm/5 holes
540665	Distal lateral fibula plate, R	2.7/3.5mm, 95mm/5 holes
540646	Distal lateral fibula plate, 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

System components

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

System components

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

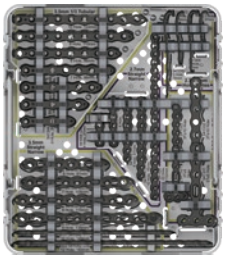
Implants

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

*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

System components

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

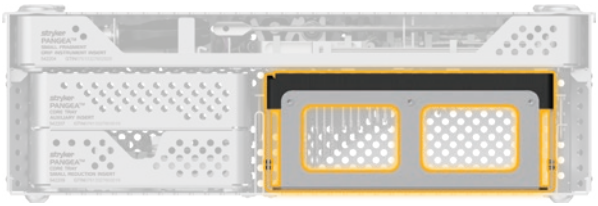
For the full offering of lengths please refer to the fibula and small fragment utility plate optechs.

*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

System components

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

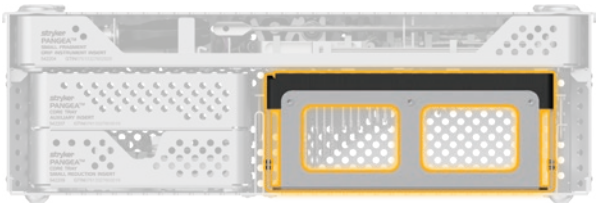
Ref #	Length (mm)
541436	36
541438	38
541440	40
541442	42
541444	44
541446	46
541448	48
541450	50
541455	55
541460	60
541465	65
541470	70
541475S*	75
541480S*	80

*Sterile packed only
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

System components

Pangea Small Fragment Core Tray - Screws

Screw rack consisting of the implants listed below:



2.7mm cortex screw self-tapping, T8 drive

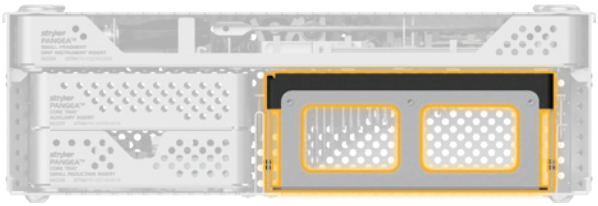
Ref #	Length (mm)	Ref #	Length (mm)
541708	8	541736	36
541710	10	541738	38
541712	12	541740	40
541714	14	541742	42
541716	16	541744	44
541718	18	541746	46
541720	20	541748	48
541722	22	541750	50
541724	24	541755	55
541726	26	541760	60
541728	28	541765	65
541730	30	541770	70
541732	32	541775S*	75
541734	34	541780S*	80

*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

System components

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

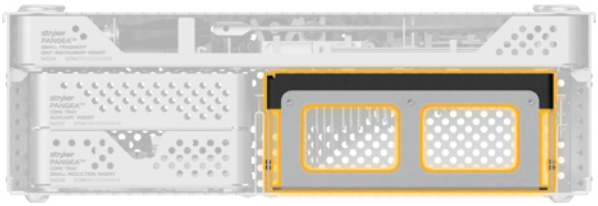
Ref #	Length (mm)
541546	46
541548	48
541550	50
541555	55
541560	60
541565	65
541570	70
541575	75
541580	80
541585	85
541590	90
541595	95
541600S*	100
541605S*	105
541610S*	110
541615S*	115
541620S*	120

*Sterile packed only
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

System components

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

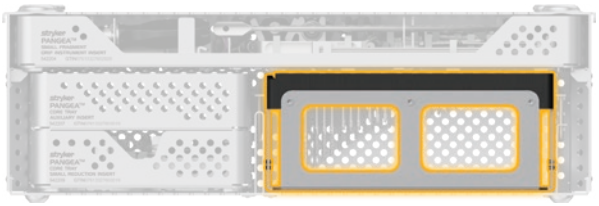
Ref #	Length (mm)
661446	46
661448	48
661450	50
661455	55
661460	60
661465	65
661470	70
661475	75
661480	80
661485	85
661490	90
661495	95
661500S*	100
661505S*	105
661510S*	110
661515S*	115
661520S*	120

*Sterile packed only
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

System components

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

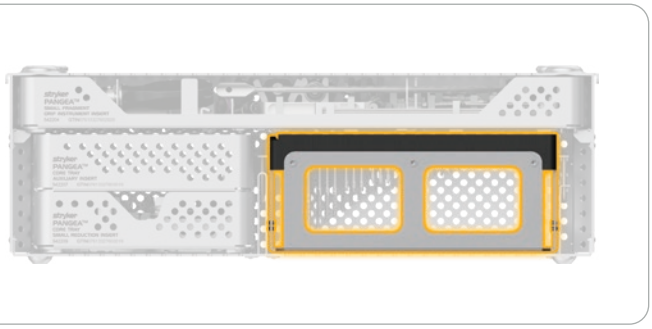
Ref #	Length (mm)
607342	42
607344	44
607346	46
607348	48
607350	50
607355	55
607360	60
607365	65
607370	70
607375	75
607380	80
607385	85
607390	90
607395	95
607400S*	100

*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

System components

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 #	Length (mm)	Thread length (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

Cable plug and washers

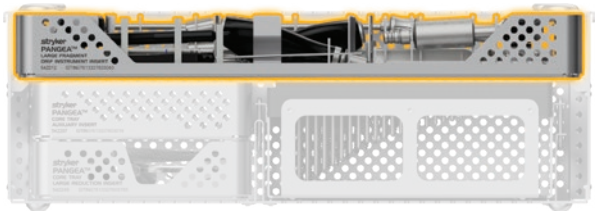
Ref #	Description
541400S*	3.5mm cable plug
40-30900	Washer, T8
663001	Washer, T15

*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

System components

Pangea Large Fragment Core Tray

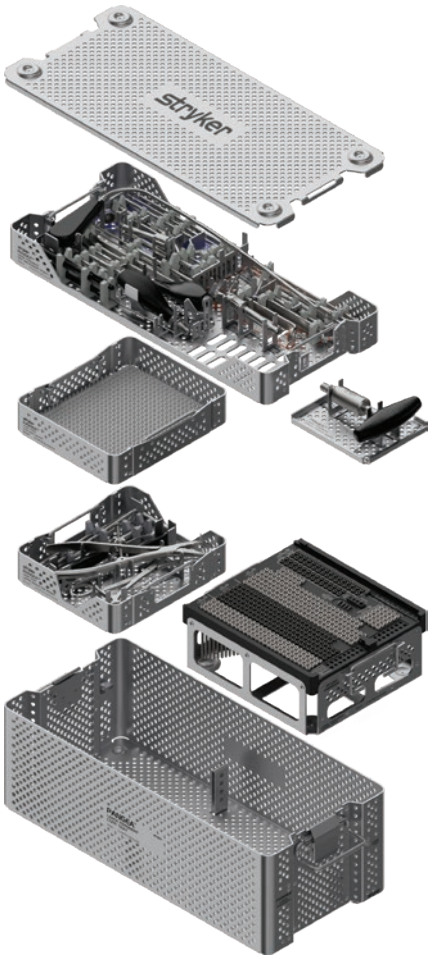
Top level consisting of the instruments listed below:



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, 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, 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
705002	K-wire drill tip, Ø2.0 x 234mm



System components

Pangea Large Fragment Core Tray

Top level consisting of the instruments listed below:

Torque limiter insert instruments

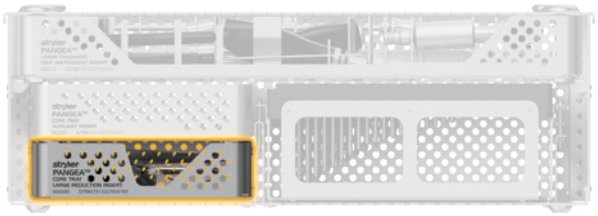
Ref #	Description
542068	Torque limiting T-handle, AO, T20 6Nm

System components

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

System components

Pangea Large Fragment Core Tray - Optional large fragment reduction insert

Ref #	Description
542249	Core tray large reduction insert

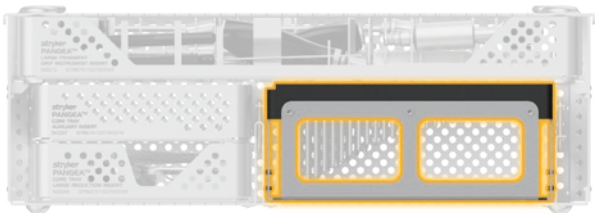
Instruments

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

System components

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

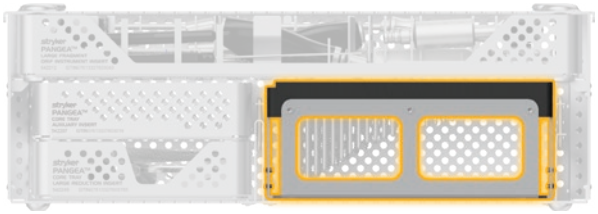
Ref #	Length (mm)
662242	42
662244	44
662246	46
662248	48
662250	50
662255	55
662260	60
662265	65
662270	70
662275	75
662280	80
662285	85
662290	90
662295	95

*Sterile packed only
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

System components

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

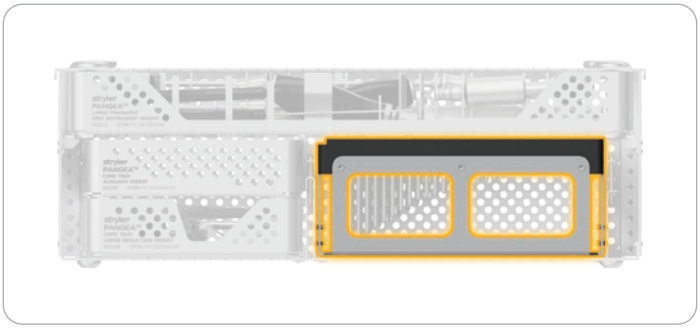
Ref #	Length (mm)
661216	16
661218	18
661220	20

*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

System components

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

Plate attachments

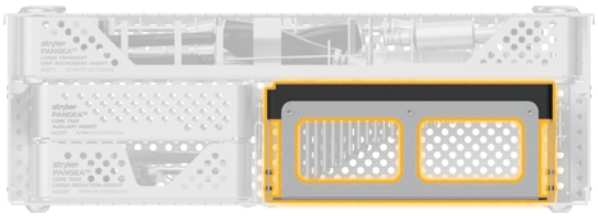
Ref #	Description
662202S*	5.0mm cable plug
663201	Washer, T20

*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

System components

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

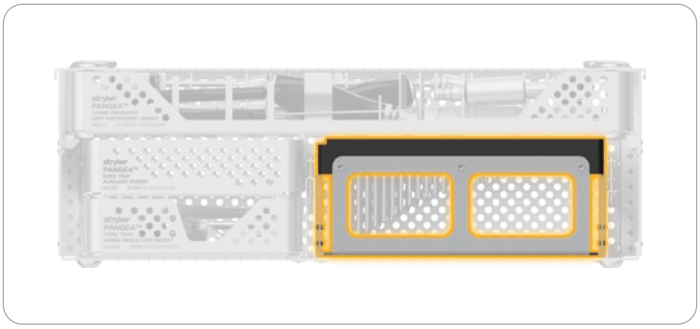
Ref #	Length (mm)
608090	90
608095	95
608100S*	100
608105S*	105
608110S*	110
608115S*	115
608120S*	120
608125S*	125
608130S*	130
608135S*	135
608140S*	140
608145S*	145
608150S*	150

*Sterile packed only
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

System components

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

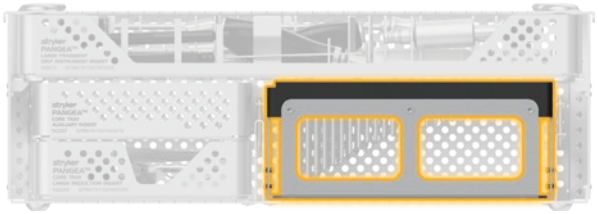
Ref #	Length (mm)
608295	95
608300S*	100
608305S*	105
608310S*	110
608315S*	115
608320S*	120
608325S*	125
608330S*	130
608335S*	135
608340S*	140
608345S*	145
608350S*	150

*Sterile packed only
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

System components

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
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

Notes

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