



UNITE[®]
FOOT & ANKLE

Ankle Fusion Plating System

SURGICAL
TECHNIQUE

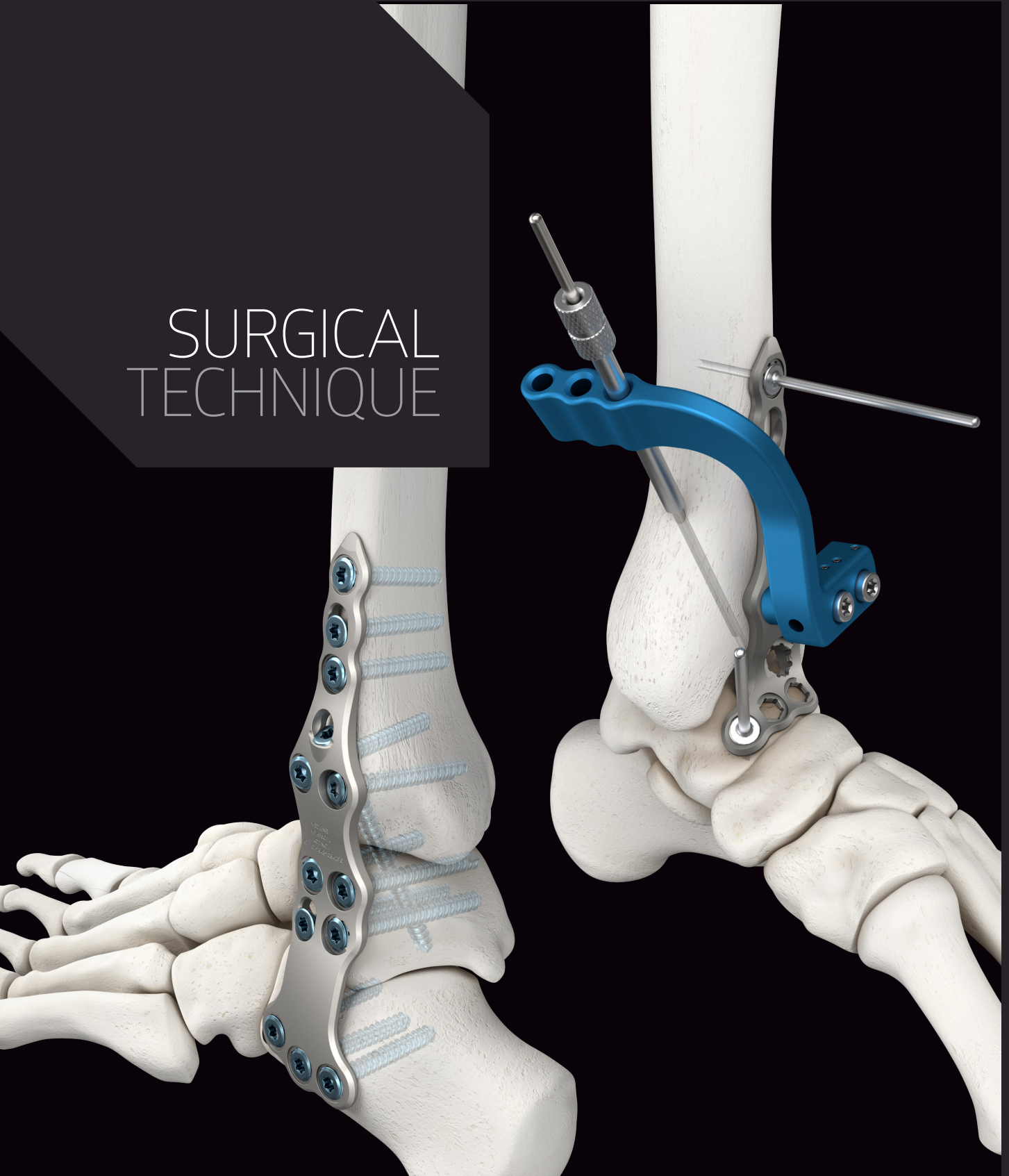
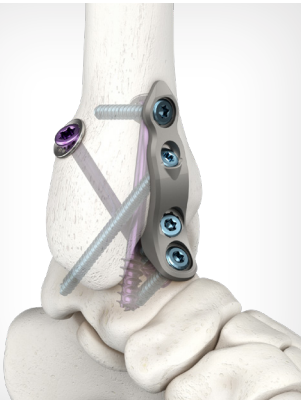


Plate options



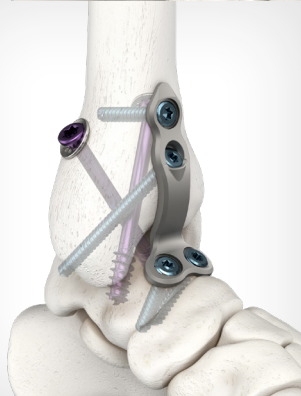
Petite Inline (Mini-Open)

Size Small & Standard

Side Specific Universal

Screw Size \varnothing 4.5/5.5mm

Plate Length Small 55mm
Standard 69mm



Petite T-Style (Mini-Open)

Size Small & Standard

Side Specific Universal

Screw Size \varnothing 4.5/5.5mm

Plate Length Small 56mm
Standard 69mm



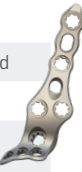
Standard Anterior

Size Small & Standard

Side Specific Left/Right

Screw Size \varnothing 3.5/4.0mm
 \varnothing 4.5/5.5mm

Plate Length Small 88mm
Standard 99mm



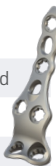
Anterior Short Talar Neck

Size Small & Standard

Side Specific Left/Right

Screw Size \varnothing 4.5/5.5mm

Plate Length Small 81mm
Standard 92mm



Posterior TT

Size Universal

Side Specific Left/Right

Screw Size \varnothing 4.5/5.5mm

Plate Length 76mm



Posterior TTC

Size Universal

Side Specific Left/Right

Screw Size \varnothing 3.5/4.0mm
 \varnothing 4.5/5.5mm

Plate Length 93mm



Lateral TTC

Size Universal

Side Specific Left/Right

Screw Size \varnothing 4.5/5.5mm

Plate Length 127mm



Pilon Primary Fusion

Size Universal

Side Specific Left/Right



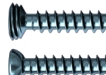

Screw Size \varnothing 3.5/4.0mm
 \varnothing 4.5/5.5mm

Plate Length 150mm






Screw options

Plate screws

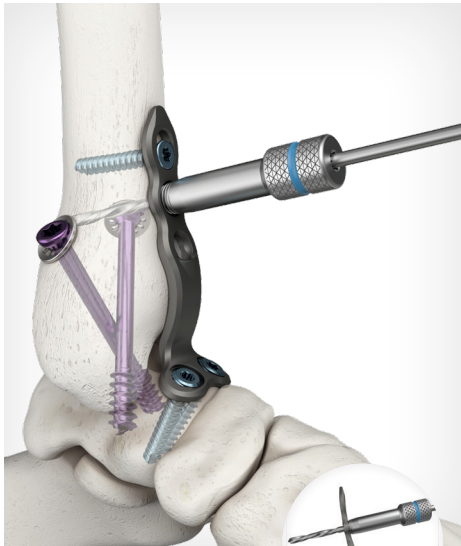
Polyaxial locking & non-locking screws	Polyaxial locking & non-locking screws	Polyaxial locking & non-locking screws	Polyaxial locking & non-locking screws
 <p>Ø3.5 mm</p>	 <p>Ø4.0 mm</p>	 <p>Ø4.5 mm</p>	 <p>Ø5.5 mm</p>
<p>Length 16 – 40mm Drill Bit Ø2.8mm Driver T15 For use with Standard Anterior, Posterior TTC, Primary Pilon Fusion</p>	<p>Length 16 – 40mm Drill Bit Ø3.0mm Driver T15 For use with Standard Anterior, Posterior TTC, Primary Pilon Fusion</p>	<p>Length 16 – 60mm Drill Bit Ø3.1mm Driver T20 For use with All Ankle Fusion Plates (Over-drill and guide for lag technique through dual-mode compression feature)</p>	<p>Length 16 – 60mm Drill Bit Ø3.8mm Driver T20 For use with All Ankle Fusion Plates</p>

Cannulated screws (separate trays*)

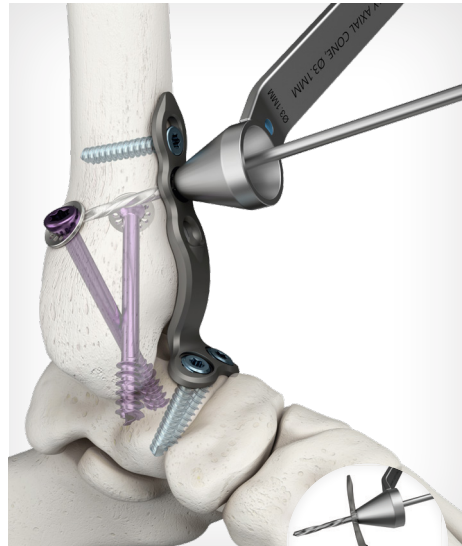
HEADED HEADLESS
 <p>Ø5.5 mm</p> <p>Length 34 – 80mm Drill Bit Ø3.6mm (Ø2.0 x 200mm wire) Driver T20 For use as independent lag screw</p>
HEADLESS
 <p>Ø6.5 mm</p> <p>Length 40 – 125mm Drill Bit Ø3.6mm (Ø2.5 x 200mm wire) Driver T30 For use as independent lag screw</p>
HEADED
 <p>Ø7.0 mm</p> <p>Length 40 – 125mm Drill Bit Ø4.5mm (Ø2.5 x 200mm wire) Driver T30 For use as independent lag screw</p>

*The Ankle Fusion tray includes 105 – 125mm Ø6.5/7.0mm Cannulated Screws

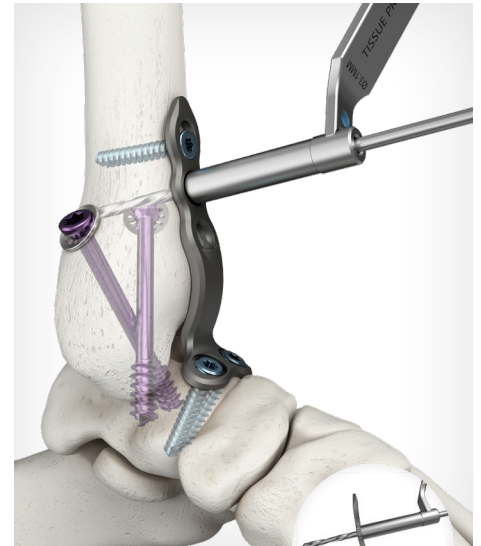
Drill guide options



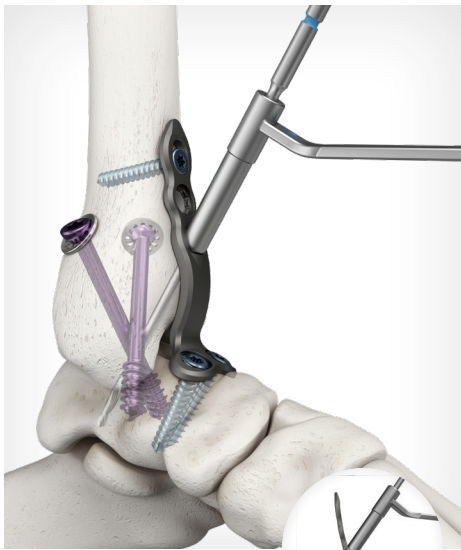
Locking Drill Guide



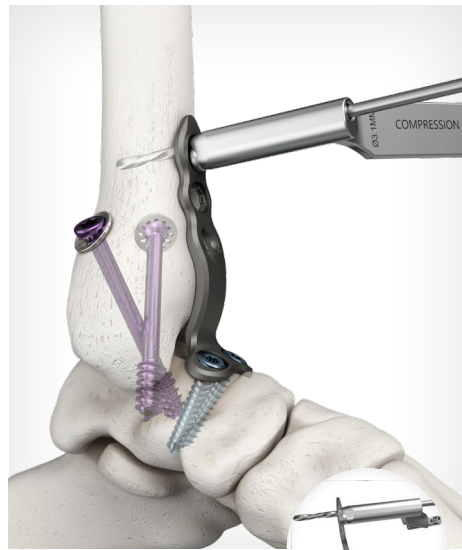
Polyaxial Cone Drill Guide



Standard Drill Guide
(On-Axis)



Cross-Plate Drill Guide



Compression Slot Drill Guide

Depth Gauge guidance

Ankle Fusion plates vary in thickness. To properly measure for accurate screw length, the surgeon must account for the distance from the top of the plate hole to the surface of the bone. The specially designed depth gauge neck features laser lines from 2 to 12mm to account for this distance.

- 1 Place the tip of the depth gauge through the plate hole and against the surface of the bone in standard fashion.
- 2 Slide the depth gauge into the bone to hook the far cortex, or to the desired position if bicortical fixation is not desired.
- 3 Read the length from the back end of the depth gauge (flat sliding component).
- 4 Next, refer to the laser line marking on the thin neck of the depth gauge to determine the distance from the surface of the bone to the top of the plate hole.
- 5 Add the two numbers together to determine the accurate screw length for the plate hole.

Note: The red lines on the illustrations represent the spot-faces of different holes in various areas of a standard anterior plate. Measurements shown are for illustration only. Values will vary based on patient anatomy and plate position.



Targeting guide and homerun screw placement (optional)

Anterior Plates

- 1 Attach appropriate guide (left or right) to the desired anterior plate (standard, short talar neck, or pilon primary fusion) by threading towers into the two distal tibial locking plate holes using the T20 driver.
- 2 Position and secure the plate to the bone using temporary fixation pins.
- 3 Select the sleeve option for the desired lag screw size (2.0mm for 5.5mm screws or 2.5mm sleeve for 6.5/7.0mm screws), then place the sleeve through the desired trajectory hole.
- 4 Place the guidepin through the sleeve and across the ankle joint and confirm placement fluoroscopically.

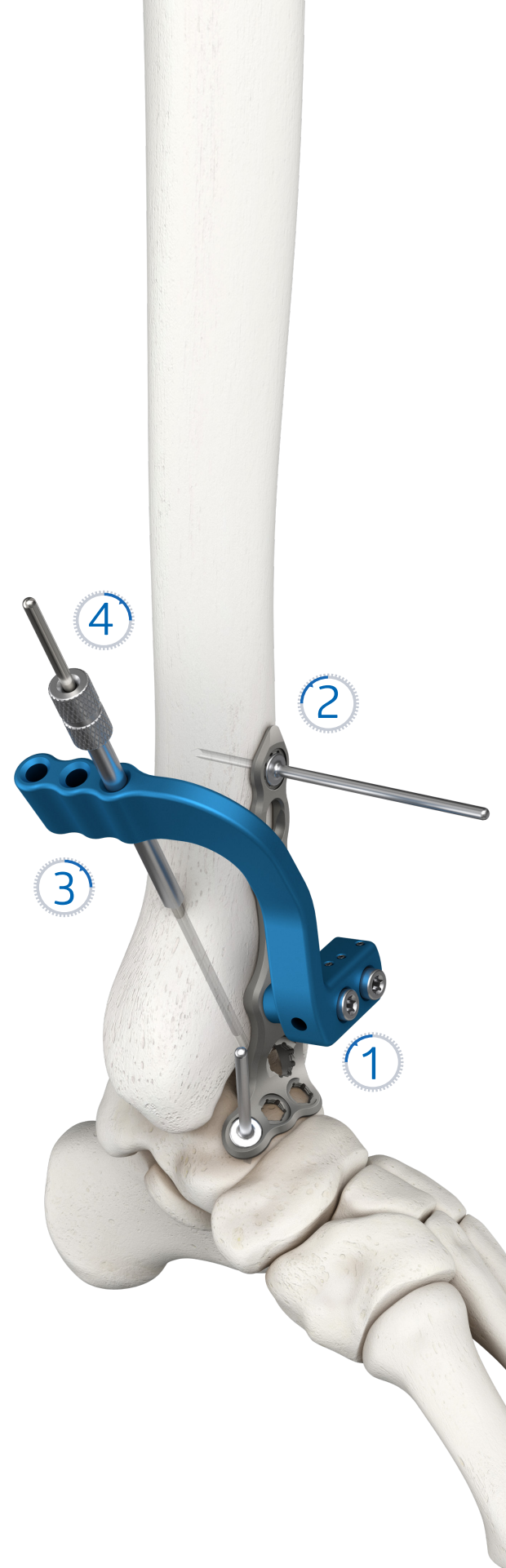


Plate fixation sequence

Anterior Standard and Short Talar Neck Plates

Note: The surgeon may place independent lag screws for ankle and/or subtalar joints prior to plate fixation.

1 If the optional targeting guide was used for homerun screw placement, place a locking screw distally before removing the distal temporary fixation pin. Place locking screws in the talar section (distal holes) of the plate using the desired drill guide. Remove any remaining temporary fixation pins.

2 Ankle joint compression through the plate.

2a Using the compression slot drill guide, drill eccentrically and place a 4.5 or 5.5mm non-locking screw in the proximal-most traditional compression slot in the tibial section.

2b Dual-mode compression feature (two options) – it is recommended to compress through this feature after utilizing the more proximal traditional compression slot.

Note: If cross-joint screw placement is desired through the dual-mode compression feature as a positional/static screw, place the screw after locking the plate both distally and proximally. Skip ahead to step 3.

Option 1: Utilize the compression slot drill guide to drill eccentrically and place a 4.5 or 5.5mm non-locking screw.

Option 2: Utilize the cross-plate drill guide, along with the pre-drill and over-drill, to lag a 4.5mm non-locking screw by technique.

3 Place locking screws in the tibia (proximal holes) of the plate using the desired drill guide.

4 Place cross-joint positional screw if step 2b was skipped.



Plate fixation sequence

Anterior Petite Inline and T-Style Plates

Note: Before plate fixation, it is recommended to place one or two independent lag screws across the ankle joint (medially and/or laterally) when using the petite style plates.

1 Place locking screws in the talar section (distal holes) of the plate using the desired drill guide.

2 Ankle joint compression through the plate.

Note: Short petite plates do not include a traditional compression slot. If implanting a short plate, skip to step 2b.

2a Using the compression slot drill guide, drill eccentrically and place a 4.5 or 5.5mm non-locking screw in the proximal-most traditional compression slot in the tibial section*.

2b Dual-mode compression feature (two options) – it is recommended to compress through this feature after utilizing the more proximal traditional compression slot.

Note: If cross-joint screw placement is desired through the dual-mode compression feature as a positional/static screw, place the screw after locking the plate both distally and proximally. Skip ahead to step 3.

Option 1: Utilize the compression slot drill guide to drill eccentrically and place a 4.5 or 5.5mm non-locking screw.

Option 2: Utilize the cross-plate drill guide, along with the pre-drill and over-drill, to lag a 4.5mm non-locking screw by technique.

3 Place locking screw in the tibia (proximal hole) of the plate using the desired drill guide.

4 Place cross-joint positional screw if step 2b was skipped.



Short plates include the dual-mode compression feature, but not the traditional compression slot

Long plates include a traditional and dual-mode compression feature

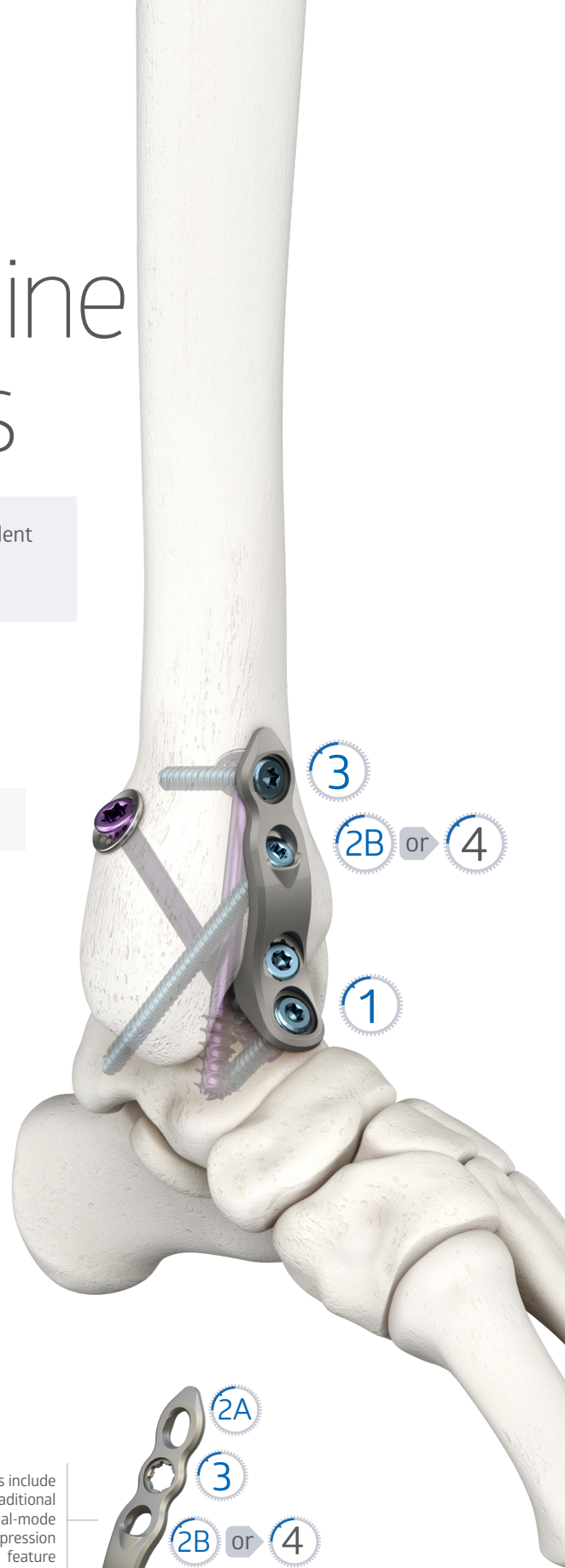
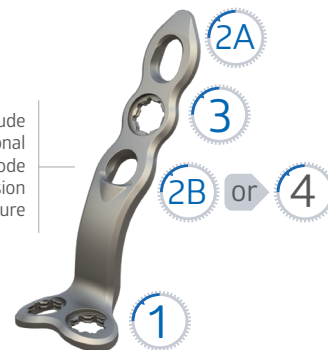


Plate fixation sequence

Posterior TT Plates

Note: The surgeon may place independent lag screws for ankle and/or subtalar joints prior to plate fixation.

- 1 Place locking screws in the talar section (distal holes) of the plate using the desired drill guide.
- 2 Ankle joint compression through the plate.
 - 2a Using the compression slot drill guide, drill eccentrically and place a 4.5 or 5.5mm non-locking screw in the proximal-most traditional compression slot in the tibial section.
 - 2b Dual-mode compression feature (two options) – it is recommended to compress through this feature after utilizing the more proximal traditional compression slot.

Note: If cross-joint screw placement is desired through the dual-mode compression feature as a positional/static screw, place the screw after locking the plate both distally and proximally. Skip ahead to step 3.

Option 1: Utilize the compression slot drill guide to drill eccentrically and place a 4.5 or 5.5mm non-locking screw.

Option 2: Utilize the cross-plate drill guide, along with the pre-drill and over-drill, to lag a 4.5mm non-locking screw by technique.

- 3 Place locking screws in the tibia (proximal holes) of the plate using the desired drill guide.
- 4 Place cross-joint positional screw if step 2b was skipped.



Plate fixation sequence

Posterior TTC Plates

Note: It is recommended to place independent lag screws for ankle and/or subtalar joints prior to plate fixation.

- 1 Place locking screws in the calcaneal section followed by the talar section using the desired drill guide.
- 2 Ankle joint compression through the plate
 - 2a Using the compression slot drill guide, drill eccentrically and place a 4.5 or 5.5mm non-locking screw in the proximal-most traditional compression slot in the tibial section
 - 2b Dual-mode compression feature (two options) – it is recommended to compress through this feature after utilizing the more proximal traditional compression slot

Note: If cross-joint screw placement is desired through the dual-mode compression as a positional/static screw, skip ahead to step 3 to place the screw after locking the plate both distally and proximally.

Option 1: Utilize the compression slot drill guide to drill eccentrically and place a 4.5 or 5.5mm non-locking screw.

Option 2: Utilize the cross-plate drill guide, along with the pre-drill and over-drill, to lag a 4.5mm non-locking screw by technique.

- 3 Place locking screws in the tibia (proximal holes) of the plate using the desired drill guide.
- 4 Place cross-joint positional screw if step 2b was skipped.

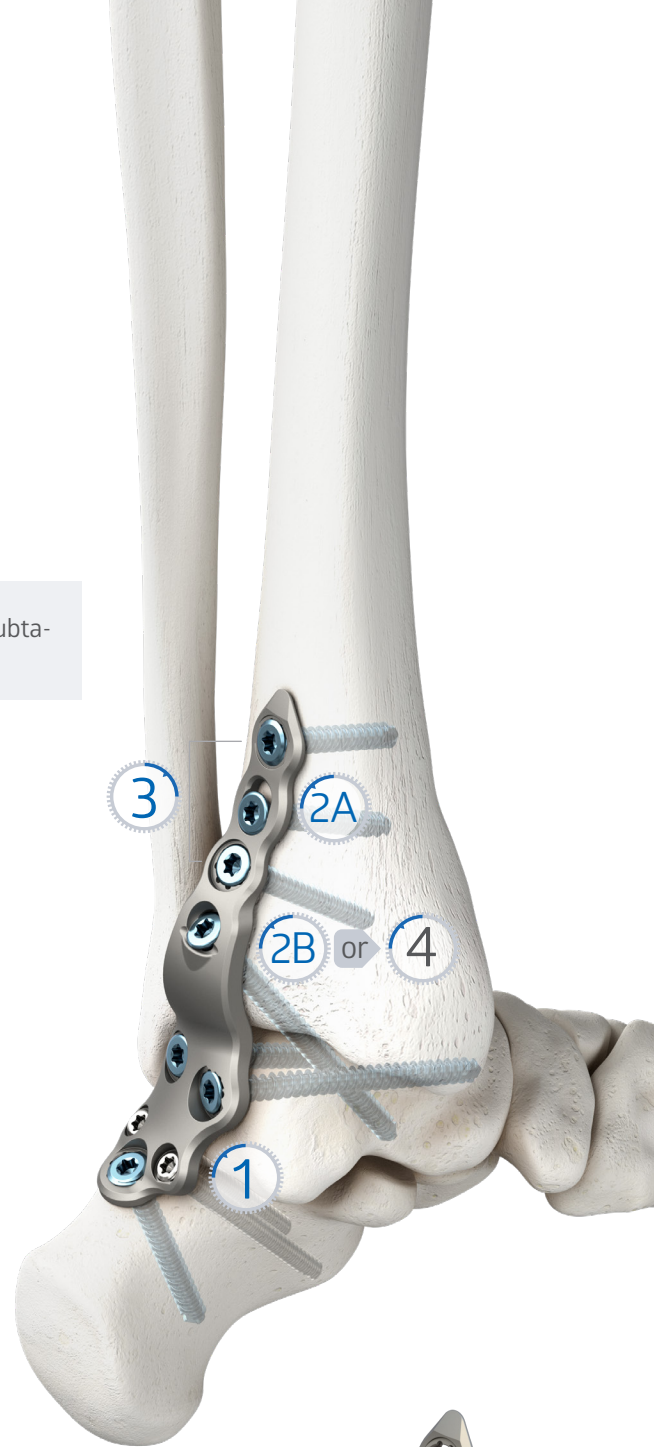


Plate fixation sequence

Lateral TTC Plates

Note: The surgeon may place independent lag screws for ankle and/or subtalar joints prior to plate fixation.

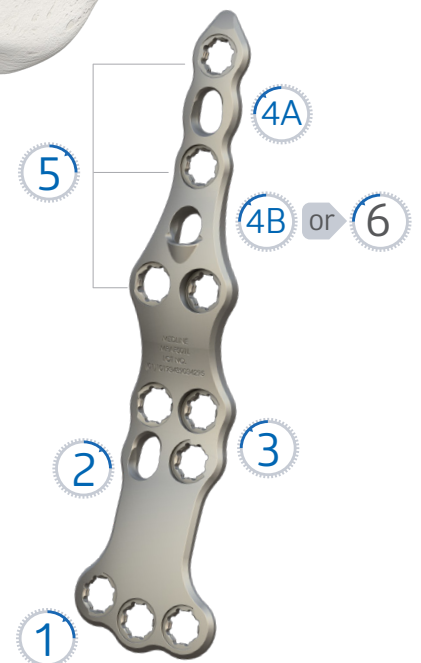
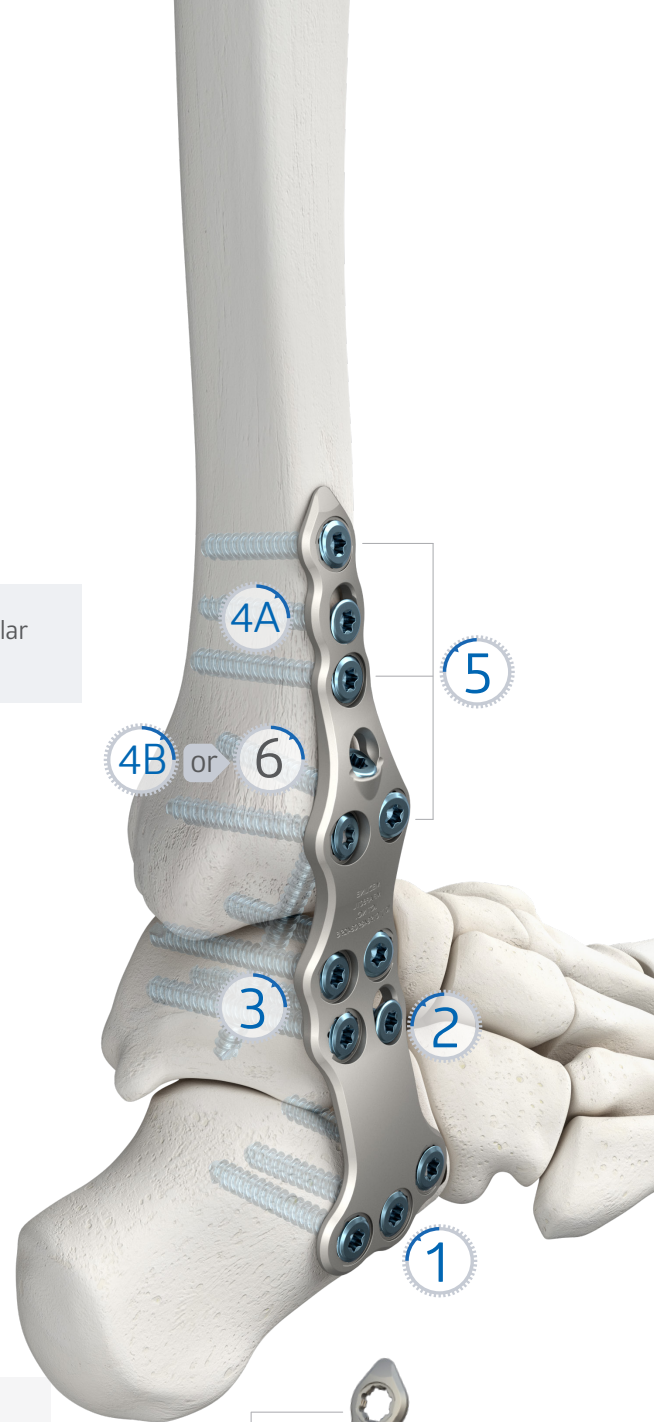
- 1 Place locking screws in the calcaneal section of the plate using the desired drill guide.
- 2 Subtalar joint compression through the plate.
 - 2a Using the compression slot drill guide, drill eccentrically and place a 4.5 or 5.5mm non-locking screw in the traditional compression slot in the talar section of the plate.
- 3 Place locking screws in the talar section of the plate.
- 4 Ankle joint compression through the plate.
 - 4a Using the compression slot drill guide, drill eccentrically and place a 4.5 or 5.5mm non-locking screw in the proximal-most traditional compression slot in the tibial section.
 - 4b Dual-mode compression feature (two options) – it is recommended to compress through this feature after utilizing the more proximal traditional compression slot.

Note: If cross-joint screw placement is desired through the dual-mode compression as a positional/static screw, place the screw after locking the plate both distally and proximally. Skip ahead to step 5.

Option 1: Utilize the compression slot drill guide to drill eccentrically and place a 4.5 or 5.5mm non-locking screw.

Option 2: Utilize the cross-plate drill guide, along with the pre-drill and over-drill, to lag a 4.5mm non-locking screw by technique.

- 5 Place screws in remaining proximal plate locking holes in the tibia.
- 6 Place cross-joint positional screw if step 4b was skipped.



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