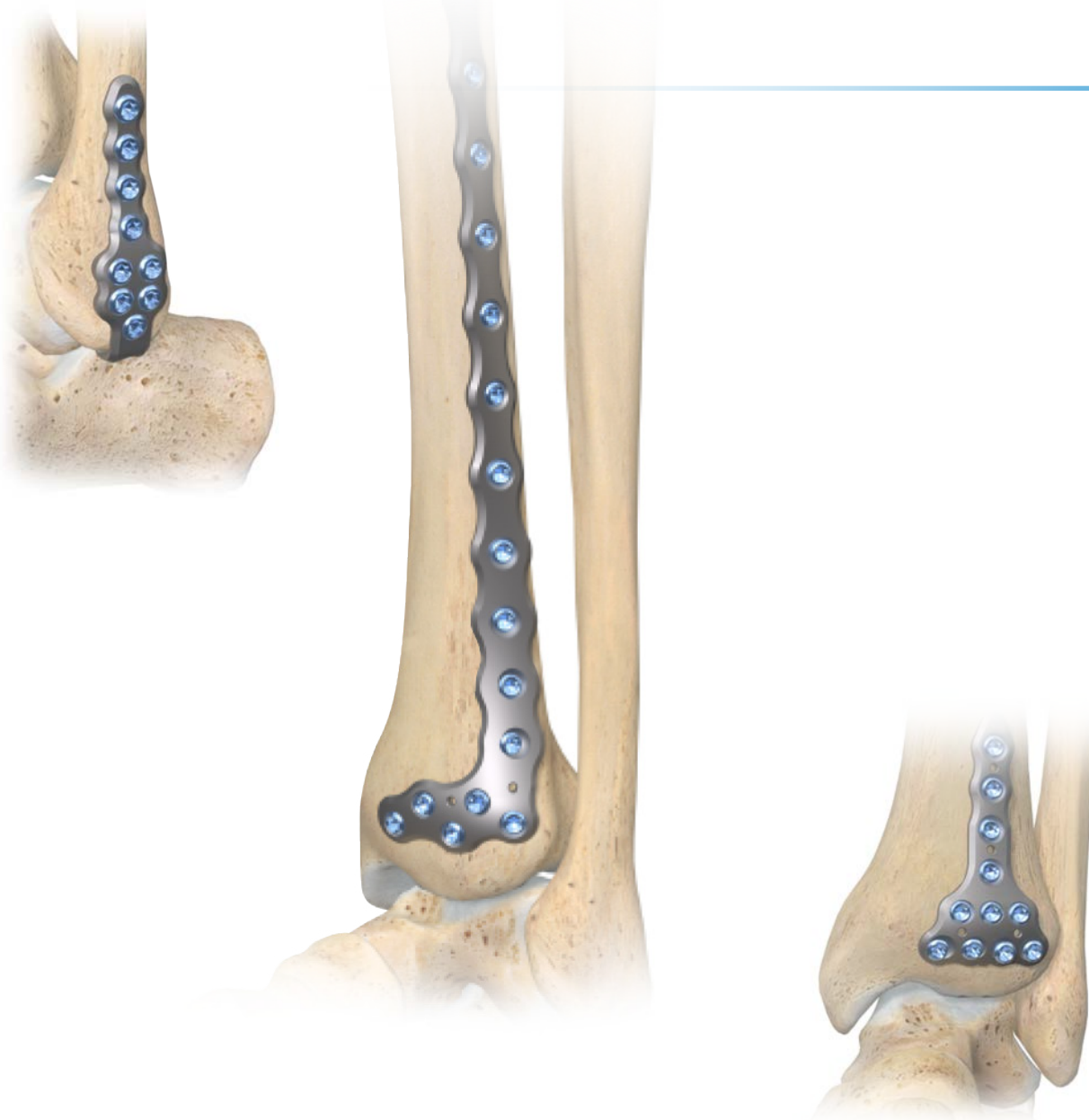




## **A.L.P.S.™ mvX Ankle Fracture System**

### **Surgical Technique**



## **A.L.P.S.™ mvX Ankle Fracture System**

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### **Surgical Technique**

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# Indications and Warnings

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## Indications

Zimmer Biomet Ankle Fracture System is indicated for Use in:

- Fixation of fractures of the distal tibia included, but not limited to, ankle fractures, periarticular fractures, corrective osteotomies, non-unions, intra- and extraarticular and distal tibia fractures with a shaft extension, and malleolar fractures.
- In intra- and extra articular fractures, osteotomies, medial malleolar fractures and nonunion of the metaphyseal and diaphyseal region of the distal fibula, and calcaneus.
- In distal tibia/fibula long bones which include the metaphyseal and diaphyseal regions of the tibia and fibula in the ankle.
- The Zimmer Biomet A.L.P.S. mvX Ankle Fracture System is not for Spinal Use.<sup>1</sup>

## Contraindications

Contraindications include:

- Infection.
- Patient conditions including blood supply limitations, obesity and insufficient quantity or quality of bone.
- Patients with mental or neurologic conditions who are unwilling or incapable of following postoperative care instructions.
- Foreign body sensitivity. If material sensitivity is suspected, testing is required prior to implanting the device.

1. LBL-ZB202316 Rev. B-01



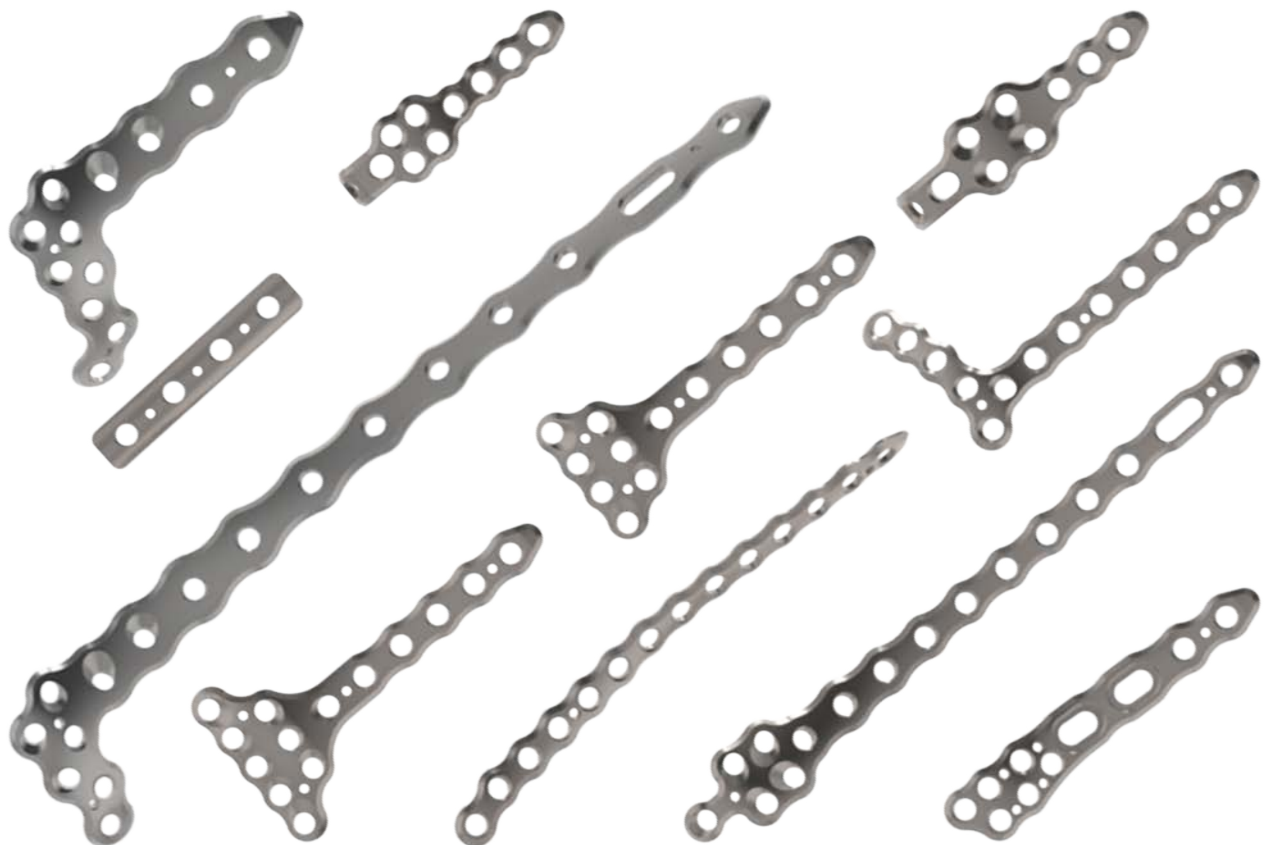
## Comprehensive Ankle Fracture Care in One System

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The A.L.P.S. mvX Ankle Fracture System is designed as the core system for the future of ankle fracture plating allowing for a single, cohesive platform across all ankle fracture applications.





Nine plating families provide sixty-nine plate options for accurate anatomic solutions for the full spectrum of ankle fractures and fusions, while a core instrument case creates a versatile solution for streamlined management and enhanced efficiency making the A.L.P.S. mvX Ankle Fracture System the ideal comprehensive ankle trauma solution.

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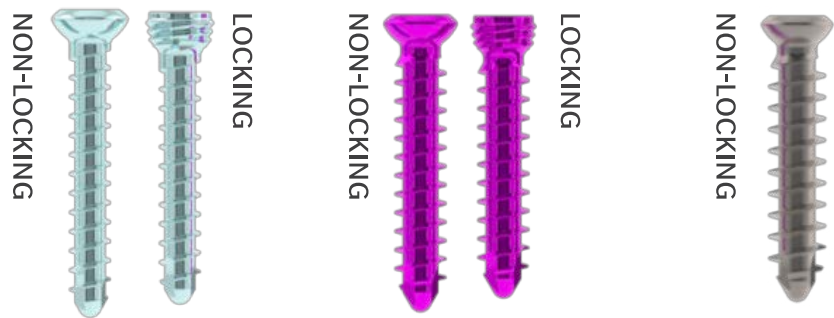
# Plate Families

| Plate Family Name  | Offerings   |
|--|---|
| <br>Anatomic Lateral Fibula | 4-hole, 6-hole, 8-hole, 10-hole, and 12-hole plates<br><br>Right and Left Options                         |
| <br>Posterior Fibula        | 8-hole, 10-hole, and 14-hole plates<br><br>Right and Left Options   |
| <br>$\frac{1}{3}$ Tubular | 2-hole, 4-hole, 6-hole, 8-hole, 10-hole, 12-hole, and 15-hole plates                                      |
| <br>Fibula Hook           | 4-hole and 6-hole plates  |
| <br>Anterolateral Tibia   | 6-hole, 10-hole, 12-hole, and 16-hole plates<br><br>Right and Left Options<br><br>Wide and Narrow Options |

| Plate Family Name  | Offerings  |
|--|--|
| <br>Medial Tibia             | 6 hole, 10 hole, 12 hole, and 16 hole plates<br><br>Right and Left Options                       |
| <br>Anterior Tibia           | 4-hole, 6-hole, and 8-hole plates<br><br>Wide and Narrow Options                                 |
| <br>Posterolateral Tibia   | 4-2 hole, 4-4 hole, 4-5 hole, 6-2 hole, 6-4 hole, 6-5 hole options<br><br>Right and Left Options |
| <br>Medial Malleolous Hook | 3 hole and 5 hole options  |

# Screw Options

| SCREW DIAMETER | 2.7mm Screws | 3.5mm Screws | 4.0mm Screws |
|----------------|--------------|--------------|--------------|
|----------------|--------------|--------------|--------------|



| THREAD DIAMETER | 2.7mm   | 3.5mm   | 4.0mm   |
|-----------------|---|---|---|
| DRILL           | 2.0mm   | 2.5mm   | 2.5mm   |
| DRIVER          | T15   | T15   | T15   |
| SCREW LENGTH    | 10-50 (2mm increments)<br>55-100 (5mm increments) | 10-50 (2mm increments)<br>55-100 (5mm increments) | 10-50 (2mm increments)<br>55-100 (5mm increments) |

Experience precision with variable angle locking screws that allow for up to 30 degrees off-axis insertions, ensuring optimal placement. Embrace versatility with an expansive suite of plate footprints. Envision efficiency with a system designed for a smooth surgical journey.





## Screw Options

| SCREW DIAMETER | THREAD IN/FIXED ANGLE DRILL GUIDE | FIXED/VA DOUBLE DRILL GUIDE              |
|----------------|-----------------------------------|--|
| Ø2.7mm         | Thread In/Fixed 2.0mm Drill Guide | 2.0mm Fixed Angle/ VA Double Drill Guide |
| Ø3.5mm         | Thread In/Fixed 2.5mm Drill Guide | 2.5mm Fixed Angle/ VA Double Drill Guide |
| Ø4.0mm         | Thread In/Fixed 2.5mm Drill Guide | 2.5mm Fixed Angle/ VA Double Drill Guide |

| SCREW DIAMETER | DRILL   | DEPTH GAUGE               | COUNTERSINK       | DRIVER |
|----------------|---|---------------------------|-------------------|--------|
| Ø2.7mm         | 2.0mm AO Drill, Short<br>2.0mm AO Drill, Long | 2.7/3.5/4.0mm Depth Gauge | 2.7mm Countersink | T15    |
| Ø3.5mm         | 2.5mm AO Drill, Short<br>2.5mm AO Drill, Long | 2.7/3.5/4.0mm Depth Gauge | 3.5mm Countersink | T15    |
| Ø4.0mm         | 2.5mm AO Drill, Short<br>2.5mm AO Drill, Long | 2.7/3.5/4.0mm Depth Gauge | 4.0mm Countersink | T15    |

# Surgical Technique: Pre-Operative

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## Preoperative Planning

Preoperative planning is recommended before beginning the surgical procedure. Radiographic assessment of pilon fractures should include A/P, Lateral, Mortise and Oblique views of the distal tibia. A/P and Lateral x-rays of the contralateral uninjured ankle can also be taken preoperatively to provide insight into the characteristics of the pre-injured ankle.

For comminuted fractures, traction radiographs will allow for more precise identification of the fracture morphology and may facilitate preoperative planning. CT scans are very helpful in determining the precise amount of articular and rotary displacement and impaction of the fracture fragments. Preoperative planning should include patient positioning, placement of incision(s), careful soft tissue assessment, methods, and instruments required for fracture reduction, and the implants necessary for fixation. Instruments frequently required include: distractor, tension device, bone spreaders and reduction forceps or linear bone clamps.

## Patient Positioning

The use of image intensification is required. The image intensifier should be sterile-draped and may be positioned from either the contralateral or ipsilateral side of the operating table. Position the patient based on fracture and surgeon preference on a radiolucent table, such that the injured ankle is near the end of the table. Elevate the leg on a padded bump with the knee slightly flexed to assist in a neutral positioning and placement.

## Surgical Approaches

Approaches include an antero-medial incision, a standard anterior incision, or the lateral Böhler approach. When plating the fibula through a standard lateral approach, the surgeon should identify the tibial incision first to avoid narrow skin bridges between the two incisions. The fibular shaft and lateral malleolus should be reconstructed initially, depending on the tibial incision planned. If a midline or antero-medial incision is planned, a straight lateral or posterolateral incision can be used. Standard techniques of fibular plating are used. If an anterolateral approach to the tibia is employed, a postero-lateral incision can be used to fix the fibula. Alternately, both tibial and fibular fixation may be performed through the same anterolateral incision. Furthermore, if plain films and CT scan indicate that the posterior malleolus is “free floating”, then this fragment must be fixed at the time of fibula fixation so that a stable fragment exists to reconstruct the articular surface. If this is not performed, the joint will be malreduced at the end of the surgery.

### Antero-Medial Approach



Begin at the level of the distal shaft of the tibia, just lateral to the anterior crest, and continue distally as far as needed, staying medial to the anterior tibial tendon. Take the skin together with the subcutaneous tissue and the periosteum in a full thickness flap to prevent separation of the medial skin from its periosteal blood supply. Expose the joint through major tears in the soft tissue envelope. If needed, the joint capsule can be incised in line with the skin incision, to visualize the articular surface. This approach offers the surgeon an excellent view of the medial and anterior distal tibia, but visualization of the lateral tibial articular surface will be limited

### Standard Anterior Approach



Make an 8 - 10 cm skin incision centered over the ankle, with most of the incision proximal to the joint. Distally, the incision stops at the level of the talo-navicular joint. Find and protect the superficial peroneal nerve, which crosses the wound from the lateral side. Incise the extensor retinaculum in line with the skin incision and expose the anterior tibial (AT) and extensor hallucis longus (EHL) tendons. Locate and protect the anterior tibial artery and deep peroneal nerve just medial to the EHL tendon at the level of the joint. Move the neurovascular bundle laterally along with the EHL; the AT should be moved medially. This exposes the ankle capsule. The exposure of the joint should be through the major tears in the soft tissue envelope. Excellent visualization of the medial, and anterior tibial plafond are possible with this approach, but visualization of the lateral tibial plafond again is somewhat limited.

### Lateral Approach



Start 5 cm proximal to the ankle joint and slightly medial to Chaput's tubercle. Continue distally in a straight line toward the base of the third and fourth metatarsals. Identify and protect the superficial peroneal nerve and proceed through the subcutaneous tissue to expose the superior and inferior extensor retinaculum, and the tendons of the extensor digitorum longus, peroneus tertius, hallucis brevis, and the extensor hallucis longus. After dividing the extensor retinaculum, the tendons of the extensor digitorum longus and peroneus tertius, the deep peroneal nerve, and the dorsalis pedis artery are moved medially. In the distal aspect of the incision, the muscle belly of the extensor digitorum brevis can be seen, and, if greater distal exposure is needed, this can be mobilized. At completion, the exposure should allow visualization of the entire anterior face of the distal tibia, with excellent visualization of the lateral articular surface.

## Surgical Technique - Anatomic Lateral Fibula Plate

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Make a straight lateral or posterolateral surgical incision over the fibula. Continue along the incised area with soft tissue dissection to allow exposure of the fracture site.

Expose and clean the fracture site and reduce the fracture. It is critical that fibular length, alignment, and rotation are accurately restored in the fracture reduction. Provisional reduction can be maintained with k-wires or reduction forceps, per surgeon preference.

Once adequate reduction has been maintained, select the appropriate anatomic lateral fibula plate for the fracture type and size (Figure 1).

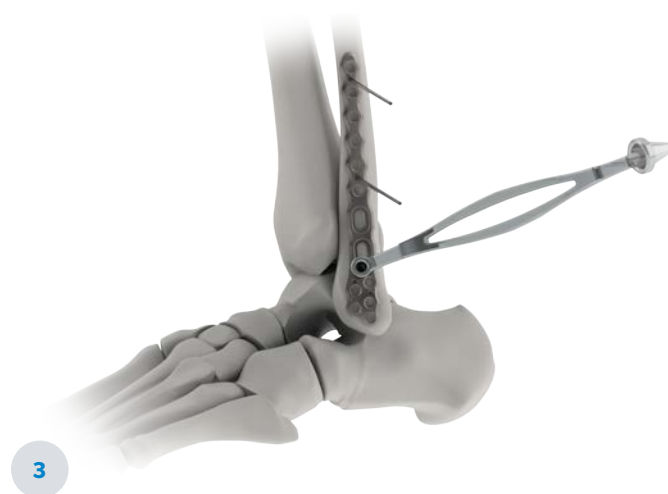
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The use of fluoroscopic imaging during plate placement in both the AP and lateral planes is recommended.

Plate tacks can be used to secure the plate to bone. Confirm plate placement using temporary fixation (Figure 2).

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Based on the fracture site, select a locking hole to insert the first screw into and identify the proper screw for fixation.

All plate holes accept 2.7 mm, 3.5 mm (locking or non-locking) or 4.0 mm (non-locking) screws.

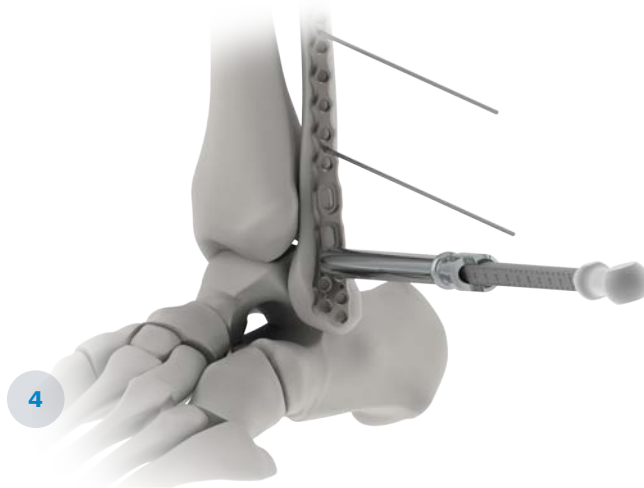
Select the appropriately sized drill guide (770004270 / 770006270 / 770004350 / 770006350) based on screw diameter and place it in the chosen hole (Figure 3).

Optionally, users may use the corresponding Overdrill (770003270 / 770003350 / 770003400) or Countersink (770008270) if required for the desired indication

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## Surgical Technique - Anatomic Lateral Fibula Plate

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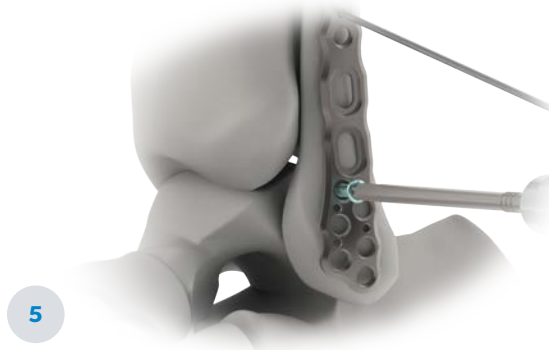


Drill to the desired depth using the appropriate drill for the desired screw diameter.

If using the ThreadIn/Fixed Drill Guide, screw length can be measured by either using the Depth Gauge (770009270) or by using the Thread In Drill Guide to read the measurement marks from the drill.

If using either side of the Double Drill Guide, screw length can only be measured using the Depth Gauge corresponding to desired screw diameter (Figure 4).

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Connect the corresponding driver to the Ratcheting AO Handle (770017010) to advance and seat the screw (Figure 5).

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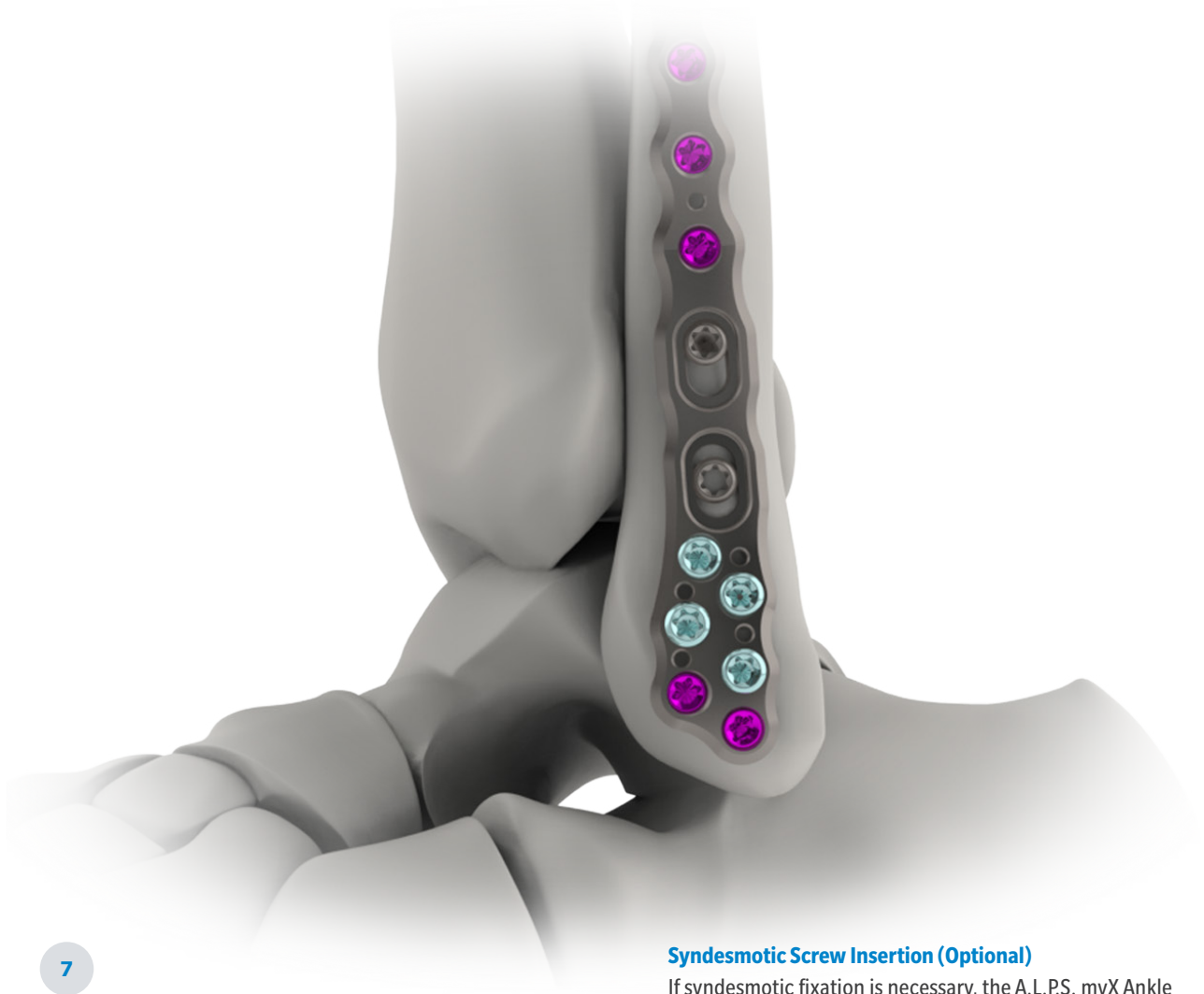


Fill the desired remaining screw holes following the above technique, leaving the syndesmotic slots for optional fixation. (Figure 6)

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## Surgical Technique - Anatomic Lateral Fibula Plate

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7

### **Syndesmotic Screw Insertion (Optional)**

If syndesmotic fixation is necessary, the A.L.P.S. mvX Ankle Fracture System provides a 2.7 / 3.5 / 4.0 mm screw for the insertion of a syndesmosis screw. Using the above technique, it is recommended to drill 3-4 cortices for the desired screw size (Figure 7).

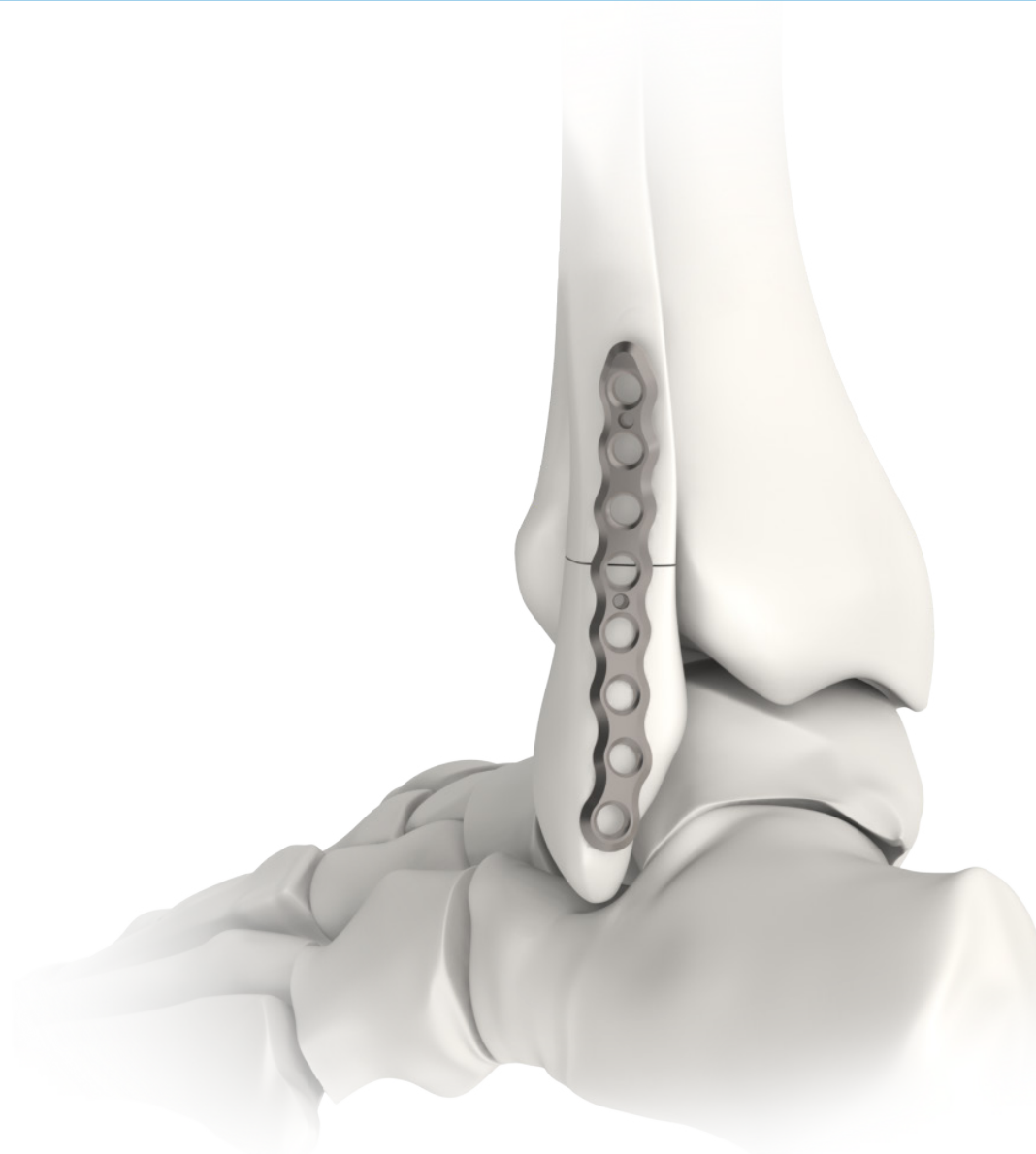
**For syndesmotic button technique, refer to either the ZipTight<sup>1</sup> or Jugglerloc<sup>2</sup> surgical techniques.**

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## Surgical Technique - Posterior Fibula Plate

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8

Make a lateral (supine or lateral decubitus position) or posterior (lateral decubitus) surgical incision over the fibula. Continue along the incised area with soft tissue dissection to allow exposure of the fracture site.

Expose and clean the fracture site and reduce the fracture. It is critical that fibular length, alignment, and rotation are accurately restored in the fracture reduction. Provisional reduction can

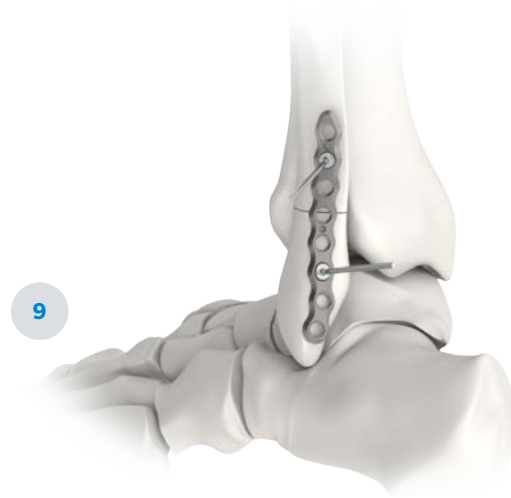
be maintained with K-Wires or reduction forceps, per surgeon preference. Once adequate reduction has been maintained, select the appropriate posterior fibula plate for the fracture type and size (**Figure 8**).

Optionally, users may use the corresponding Overdrill (770003270 / 770003350 / 770003400) or Countersink (770008270) if required for the desired indication.



## Surgical Technique - Posterior Fibula Plate

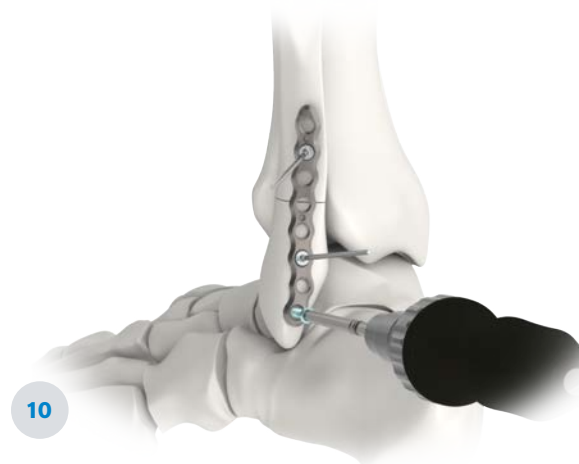
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The use of fluoroscopic imaging during plate placement in both the AP and lateral planes is recommended.

K-Wires or plate tacks can be used to secure the plate to bone. Confirm plate placement using temporary fixation (Figure 9).

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Based on the fracture site, select a locking hole to insert the first screw into and identify the proper screw for fixation.

All plate holes accept 2.7 mm, 3.5 mm (locking or non-locking) or 4.0 mm (opn) screws.

Select the appropriately sized drill guide (770004270 / 770006270 / 770004350 / 770006350) based on screw diameter and place it in the chosen hole.

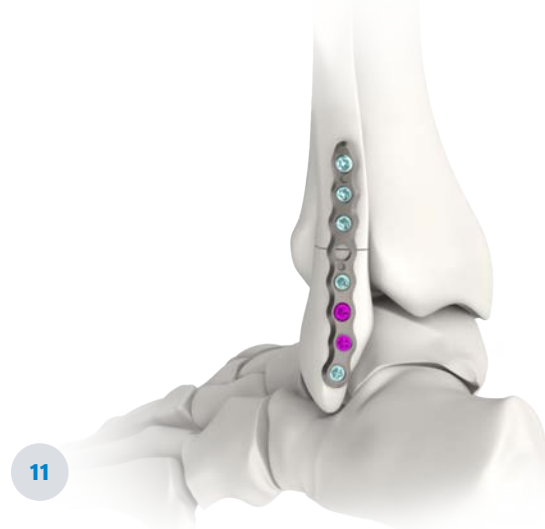
Drill to the desired depth using the appropriate drill for the desired screw diameter.

If using the ThreadIn/Fixed Drill Guide, screw length can be measured by either using the Depth Gauge (770009270) or by using the Thread In Drill Guide to read the measurement marks from the drill.

If using either side of the Double Drill Guide, screw length can only be measured using the Depth Gauge corresponding to desired screw diameter.

Connect the corresponding driver to the Ratcheting AO Handle (770017010) to advance and seat the screw (Figure 10).

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Fill the desired remaining screw holes following the above technique (Figure 11).

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## Surgical Technique - 1/3 Tubular Plate

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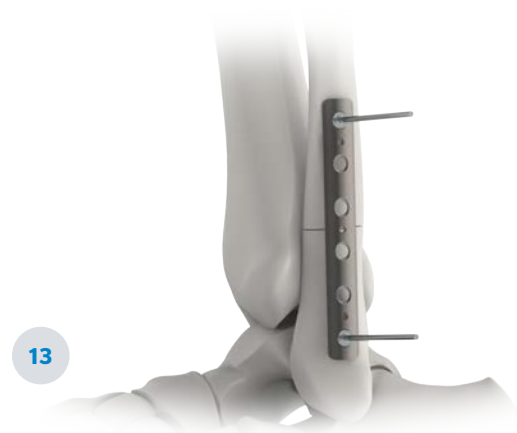


Make a straight lateral or posterolateral surgical incision over the fibula. Continue along the incised area with soft tissue dissection to allow exposure of the fracture site.

Expose and clean the fracture site and reduce the fracture. It is critical that fibular length, alignment, and rotation are accurately restored in the fracture reduction. Provisional reduction can be maintained with k-wires or reduction forceps, per surgeon preference.

Once adequate reduction has been maintained, select the appropriate one third tubular plate for the fracture type and size (Figure 12).

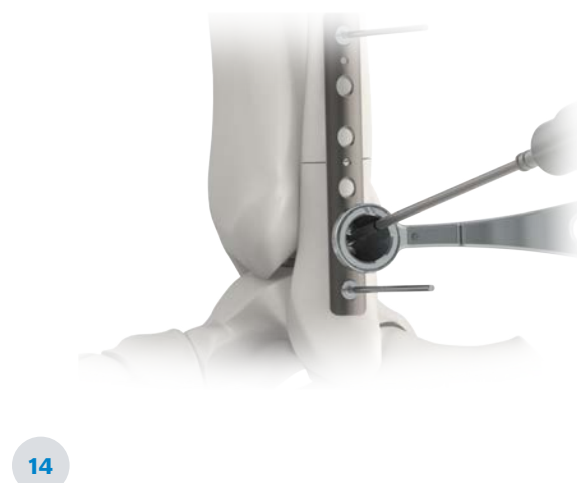
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The use of fluoroscopic imaging during plate placement in both the AP and lateral planes is recommended.

Plate tacks can be used to secure the plate to bone. Confirm plate placement using temporary fixation (Figure 13).

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Based on the fracture site, select a locking hole to insert the first screw into and identify the proper screw for fixation.

All plate holes accept 2.7 mm, 3.5 mm (locking or non-locking) or 4.0 mm (non-locking) screws.

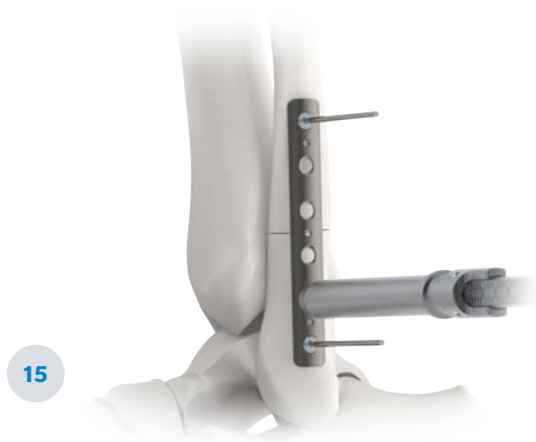
Select the appropriately sized drill guide (770004270 / 770006270 / 770004350 / 770006350) based on screw diameter and place it in the chosen hole (14).

Optionally, users may use the corresponding Overdrill (770003270 / 770003350 / 770003400) or Countersink (770008270) if required for the desired indication.

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## Surgical Technique - 1/3 Tubular Plate

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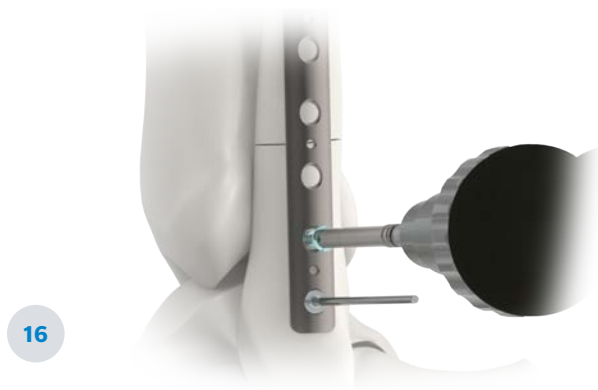


Drill to the desired depth using the appropriate drill for the desired screw diameter.

If using the ThreadIn/Fixed Drill Guide, screw length can be measured by either using the Depth Gauge (770009270) or by using the Thread In Drill Guide to read the measurement marks from the drill.

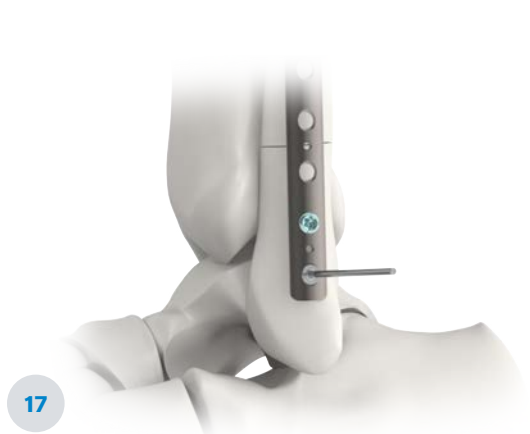
If using either side of the Double Drill Guide, screw length can only be measured using the Depth Gauge corresponding to desired screw diameter.(Figure 15).

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Connect the corresponding driver to the Ratcheting AO Handle (770017010) to advance and seat the screw (Figure 16).

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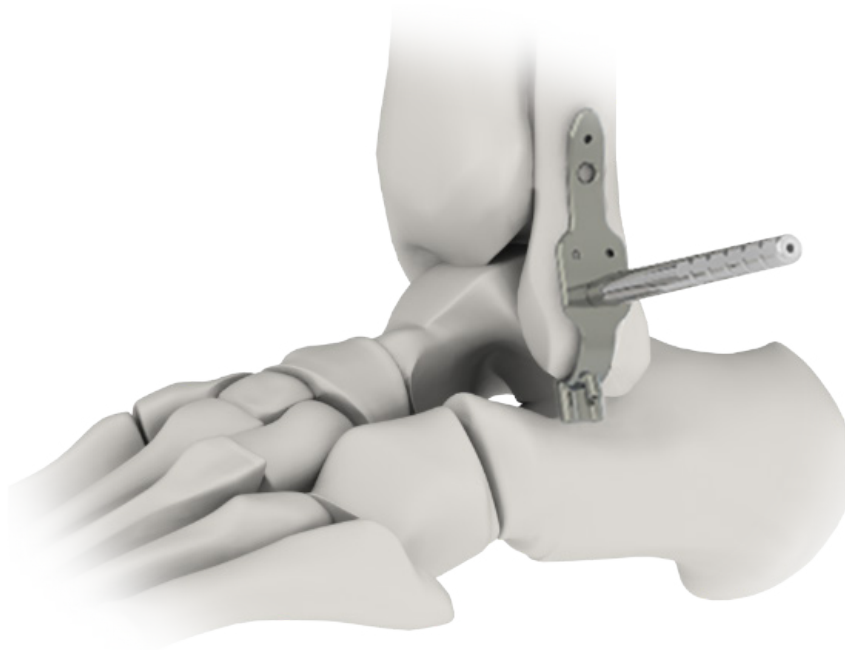


Fill the desired remaining screw holes following the above technique (Figure 17 & 18).

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## Surgical Technique - Fibular Hook Plate

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19

Make a straight lateral or posterolateral surgical incision over the fibula. Continue along the incised area with soft tissue dissection to allow exposure of the fracture site.

Expose and clean the fracture site and reduce the fracture. It is critical that fibular length, alignment, and rotation are accurately restored in the fracture reduction. Provisional reduction can be maintained with k-wires or reduction forceps, per surgeon preference.

Once adequate reduction has been maintained, select the appropriate medial malleolus hook plate for the fracture type and size. The drill guide is used as a template to determine implant positioning. A bending pin can be used as a handle for easier placement.

Once the desired placement is achieved, the guide must be secured in two locations using K-Wires or plate tacks. A K-Wire through the hole adjacent to the drill guide barrels should be placed. This will guide implant insertion.

Once fixated (minimum two locations). Punch the cortex using the 2.5mm drill (use the 2.0mm drill for the fibula hook drill guide).

After drilling, remove all fixation wires/tacks EXCEPT for the K-Wire in the hole adjacent to the drill guide barrels. Remove the drill guide by sliding it off the K-Wire inserted adjacent to the drill barrels.

The hook plate tamp instrument is to be threaded onto the hook plate implant in the screw hole near the tines.

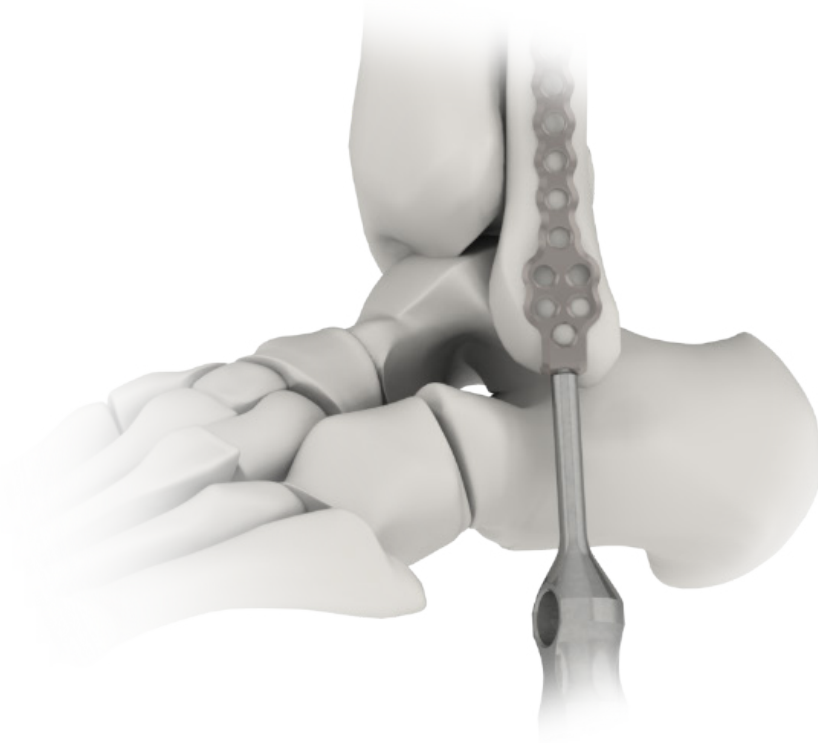
Slide the hook plate tamp over the K-Wire that was used with the hook plate drill guide. This will help align the plate with the pilot holes created for the tines. Slide the plate up to the bone until the pilot holes are located. A mallet can be used to tamp the implant into place.

Once tamped into place, apply temporary fixation to hold the plate in the intended location. (Figure 19).

## Surgical Technique - Fibular Hook Plate

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20a



The use of fluoroscopic imaging during plate placement in both the AP and lateral planes is recommended.

Plate tacks can be used to secure the plate to bone. Confirm plate placement using temporary fixation.

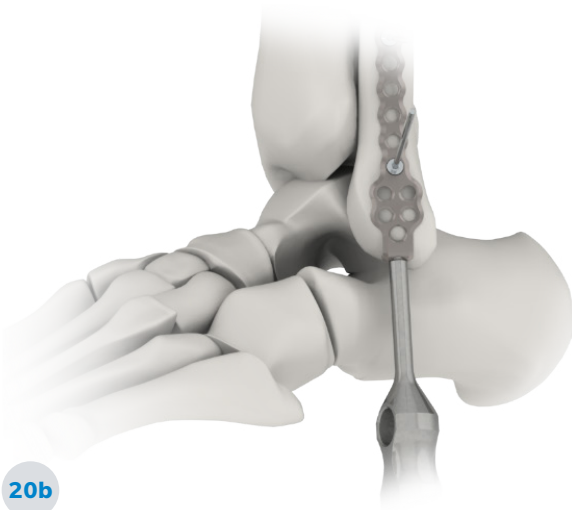
Based on the fracture site, select a locking hole to insert the first screw into and identify the proper screw for fixation.

All plate holes accept 2.7 mm, 3.5 mm (locking or non-locking) or 4.0 mm (non-locking) screws.

Select the appropriately sized drill guide (770004270 / 770006270 / 770004350 / 770006350) based on screw diameter and place it in the chosen hole (Figure 20a, 20b).

Optionally, users may use the corresponding Overdrill (770003270 / 770003350 / 770003400) or Countersink (770008270) if required for the desired indication.

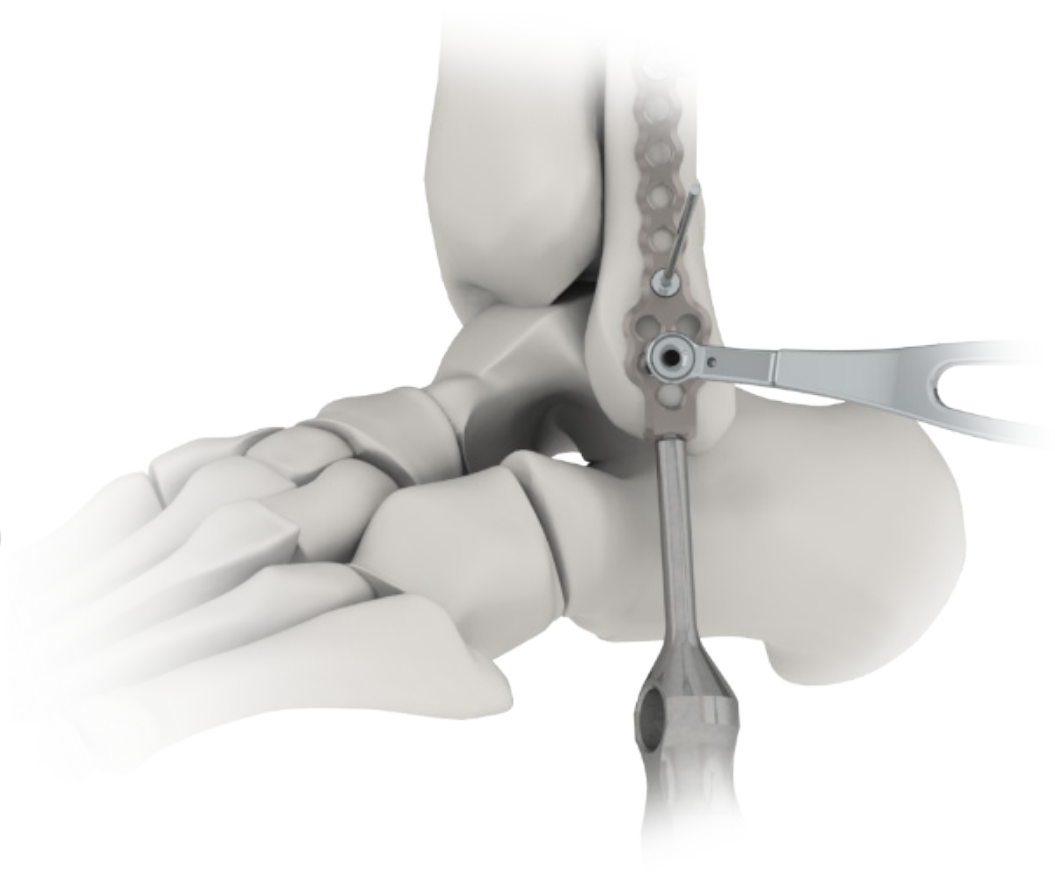
20b



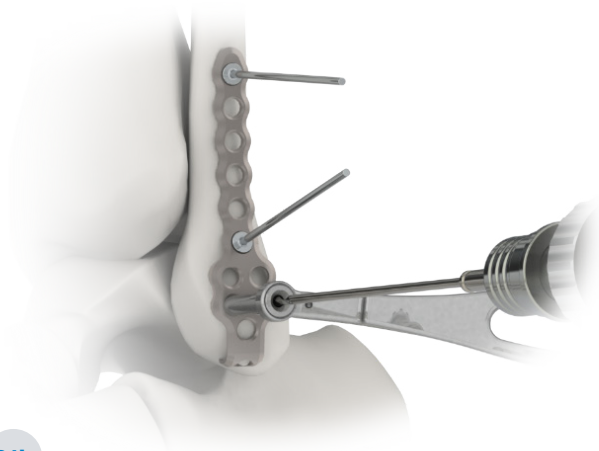
## Surgical Technique - Fibular Hook Plate

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21a



21b



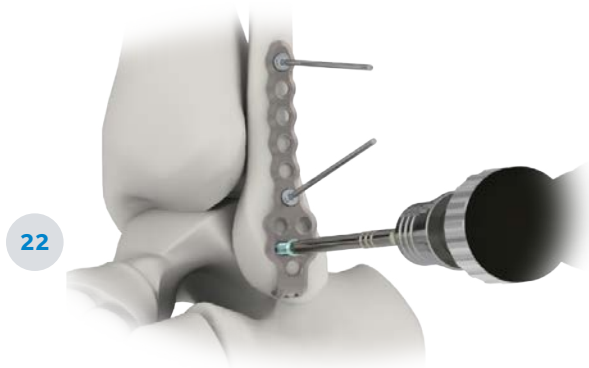
Drill to the desired depth using the appropriate drill for the desired screw diameter.

If using the ThreadIn/Fixed Drill Guide, screw length can be measured by either using the Depth Gauge (770009270) or by using the Thread In Drill Guide to read the measurement marks from the drill.

If using either side of the Double Drill Guide, screw length can only be measured using the Depth Gauge corresponding to desired screw diameter (Figure 21a, 21b).

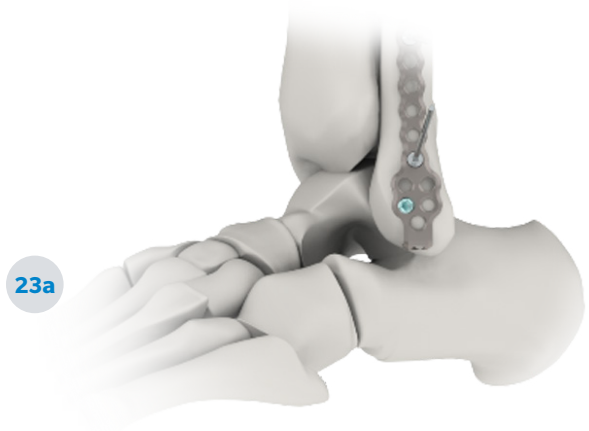
## Surgical Technique - Fibular Hook Plate

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Connect the corresponding driver to the Ratcheting AO Handle (770017010) to advance and seat the screw. (Figure 22)

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Fill the desired remaining screw holes following the above technique. (Figure 23a, 23b)

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## Surgical Technique - Anterolateral Tibia Plate

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24



Make a small distal medial incision over the tibia, with percutaneous incision(s) made for proximal fixation. Continue along the incised area with soft tissue dissection to allow exposure of the fracture site.

Expose and clean the fracture site and reduce the fracture. It is critical that fibular length, alignment, and rotation are accurately restored in the fracture reduction. Provisional reduction can be maintained with k-wires or reduction forceps, per surgeon preference. Once adequate reduction has been maintained, select the appropriate anterolateral tibia plate for the fracture type and size (Figure 24).

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25



The use of fluoroscopic imaging during plate placement in both the AP and lateral planes is recommended.

Plate tacks can be used to secure the plate to bone. Confirm plate placement using temporary fixation (Figure 25).

Optionally, users may use the corresponding Overdrill (770003270 / 770003350 / 770003400) or Countersink (770008270) if required for the desired indication.

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## Surgical Technique - Anterolateral Tibia Plate

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26



Based on the fracture site, select a locking hole to insert the first screw into and identify the proper screw for fixation.

All plate holes accept 2.7 mm, 3.5 mm (locking or non-locking) or 4.0 mm (non-locking) screws.

Select the appropriately sized drill guide (770004270 / 770006270 / 770004350 / 770006350) based on screw diameter and place it in the chosen hole

Drill to the desired depth using the appropriate drill for the desired screw diameter.

If using the ThreadIn/Fixed Drill Guide, screw length can be measured by either using the Depth Gauge (770009270) or by using the Thread In Drill Guide to read the measurement marks from the drill.

If using either side of the Double Drill Guide, screw length can only be measured using the Depth Gauge corresponding to desired screw diameter.

Connect the corresponding driver to the Ratcheting AO Handle (770017010) to advance and seat the screw (Figure 26 & 27).

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27



28



Fill the desired remaining screw holes following the above technique (Figure 28).

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## Surgical Technique - Medial Tibia Plate

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29



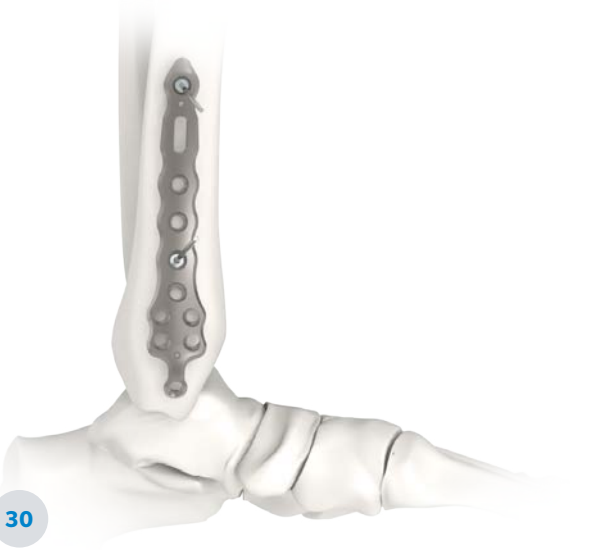
Make a straight medial surgical incision over the medial aspect of the tibia. Continue along the incised area with soft tissue dissection to allow exposure of the fracture site.

Expose and clean the fracture site and reduce the fracture. It is critical that fibular length, alignment, and rotation are accurately restored in the fracture reduction. Provisional reduction can be maintained with k-wires or reduction forceps, per surgeon preference.

Once adequate reduction has been maintained, select the appropriate medial tibia plate for the fracture type and size (Figure 29).

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30



The use of fluoroscopic imaging during plate placement in both the AP and lateral planes is recommended.

Plate tacks can be used to secure the plate to bone. Confirm plate placement using temporary fixation (Figure 30).

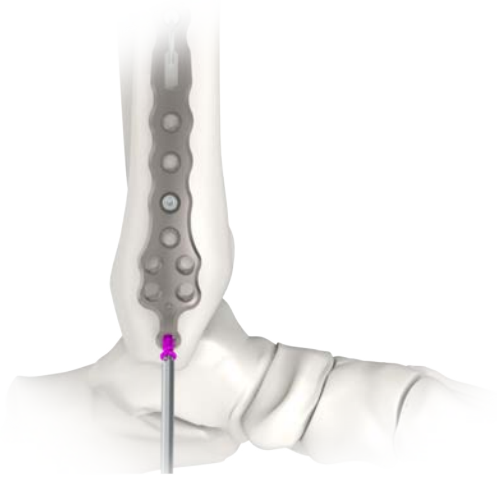
Optionally, users may use the corresponding Overdrill (770003270 / 770003350 / 770003400) or Countersink (770008270) if required for the desired indication.

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## Surgical Technique - Medial Tibia Plate

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31



Based on the fracture site, select a locking hole to insert the first screw into and identify the proper screw for fixation.

All plate holes accept 2.7 mm, 3.5 mm (locking or non-locking) or 4.0 mm (non-locking) screws.

Select the appropriately sized drill guide (770004270 / 770006270 / 770004350 / 770006350) based on screw diameter and place it in the chosen hole.

Drill to the desired depth using the appropriate drill for the desired screw diameter.

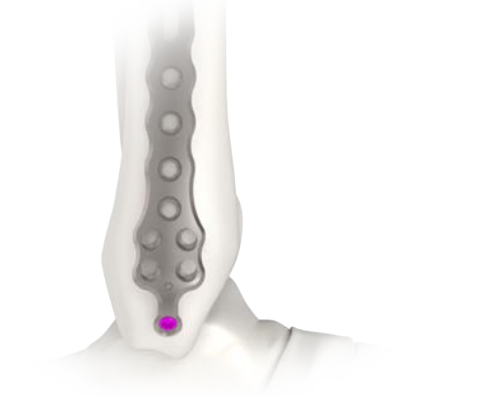
If using the ThreadIn/Fixed Drill Guide, screw length can be measured by either using the Depth Gauge (770009270) or by using the Thread In Drill Guide to read the measurement marks from the drill.

If using either side of the Double Drill Guide, screw length can only be measured using the Depth Gauge corresponding to desired screw diameter.

Connect the corresponding driver to the Ratcheting AO Handle (770017010) to advance and seat the screw (Figure 31 & 32).

---

32



33



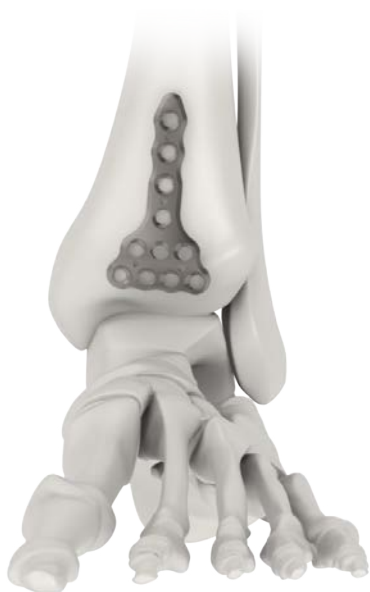
Fill the desired remaining screw holes following the above technique (Figure 33).

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## Surgical Technique - Anterior Tibia Plate

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34



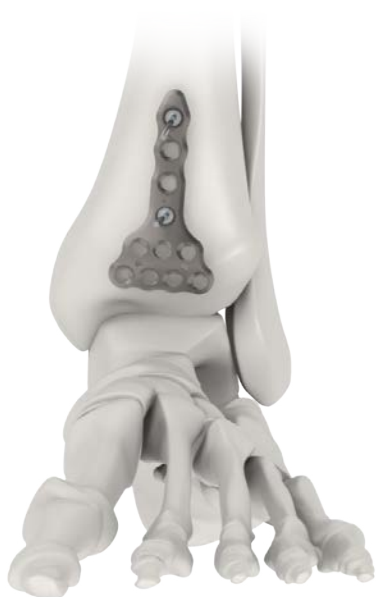
Make a straight anterior incision over the tibia. Continue along the incised area with soft tissue dissection to allow exposure of the fracture site.

Expose and clean the fracture site and reduce the fracture. It is critical that fibular length, alignment, and rotation are accurately restored in the fracture reduction. Provisional reduction can be maintained with k-wires or reduction forceps, per surgeon preference.

Once adequate reduction has been maintained, select the appropriate anterior tibia plate for the fracture type and size (Figure 34).

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35



The use of fluoroscopic imaging during plate placement in both the AP and lateral planes is recommended.

Plate tacks can be used to secure the plate to bone. Confirm plate placement using temporary fixation (Figure 35).

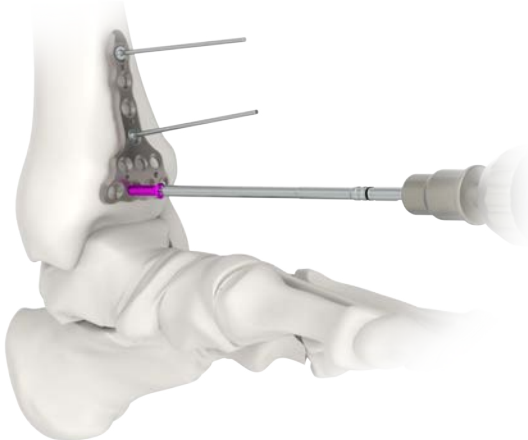
Optionally, users may use the corresponding Overdrill (770003270 / 770003350 / 770003400) or Countersink (770008270) if required for the desired indication.

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## Surgical Technique - Anterior Tibia Plate

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36



Based on the fracture site, select a locking hole to insert the first screw into and identify the proper screw for fixation.

All plate holes accept 2.7 mm, 3.5 mm (locking or non-locking) or 4.0 mm (non-locking) screws.

Select the appropriately sized drill guide (770004270 / 770006270 / 770004350 / 770006350) based on screw diameter and place it in the chosen hole .

Drill to the desired depth using the appropriate drill for the desired screw diameter.

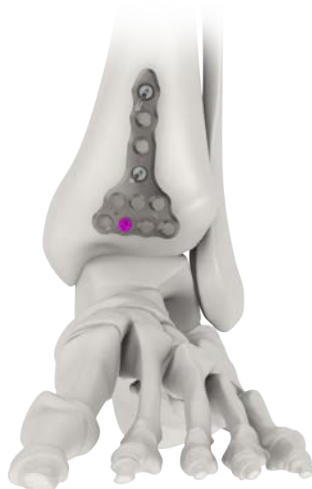
If using the ThreadIn/Fixed Drill Guide, screw length can be measured by either using the Depth Gauge (770009270) or by using the Thread In Drill Guide to read the measurement marks from the drill.

If using either side of the Double Drill Guide, screw length can only be measured using the Depth Gauge corresponding to desired screw diameter.

Connect the corresponding driver to the Ratcheting AO Handle (770017010) to advance and seat the screw (Figure 36 & 37).

---

37



38



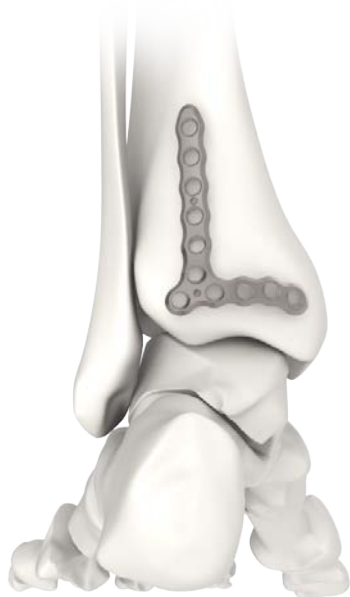
Fill the desired remaining screw holes following the above technique (Figure 38).

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## Surgical Technique - Posterolateral Tibia Plate

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39



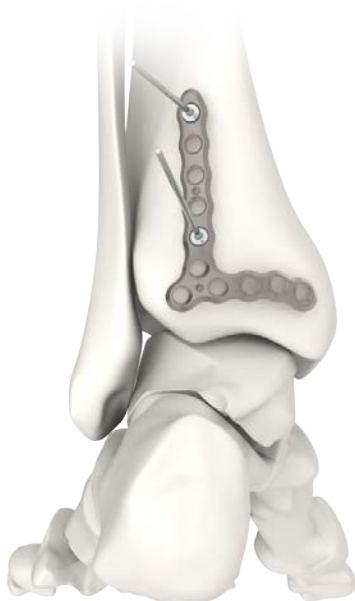
Make a posterolateral surgical incision over the tibia. Continue along the incised area with soft tissue dissection to allow exposure of the fracture site.

Expose and clean the fracture site and reduce the fracture. It is critical that fibular length, alignment, and rotation are accurately restored in the fracture reduction. Provisional reduction can be maintained with K-Wires or reduction forceps, per surgeon preference.

Once adequate reduction has been maintained, select the appropriate posterolateral tibia plate for the fracture type and size (Figure 39).

---

40



The use of fluoroscopic imaging during plate placement in both the AP and lateral planes is recommended.

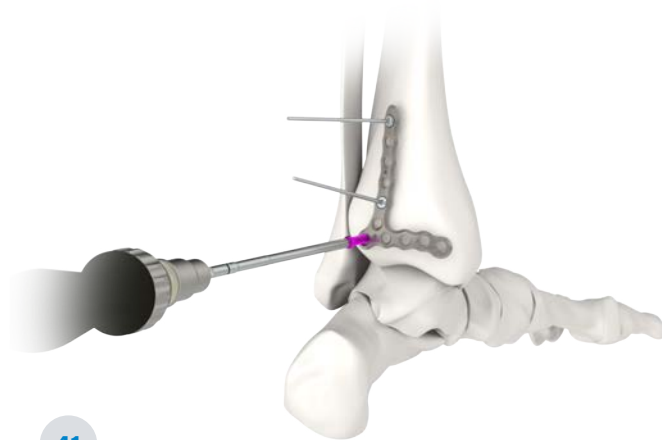
Plate tacks can be used to secure the plate to bone. Confirm plate placement using temporary fixation (Figure 40).

Optionally, users may use the corresponding Overdrill (770003270 / 770003350 / 770003400) or Countersink (770008270) if required for the desired indication.

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## Surgical Technique - Posterolateral Tibia Plate

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41

Based on the fracture site, select a locking hole to insert the first screw into and identify the proper screw for fixation.

All plate holes accept 2.7 mm, 3.5 mm (locking or non-locking) or 4.0 mm (non-locking) screws.

Select the appropriately sized drill guide (770004270 / 770006270 / 770004350 / 770006350) based on screw diameter and place it in the chosen hole.

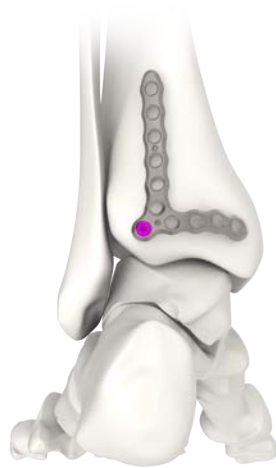
Drill to the desired depth using the appropriate drill for the desired screw diameter.

If using the ThreadIn/Fixed Drill Guide, screw length can be measured by either using the Depth Gauge (770009270) or by using the Thread In Drill Guide to read the measurement marks from the drill.

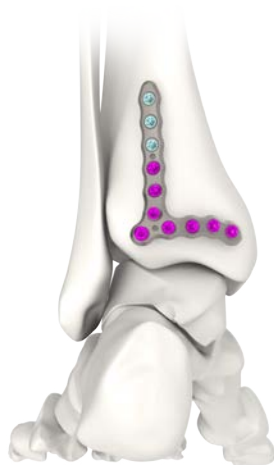
If using either side of the Double Drill Guide, screw length can only be measured using the Depth Gauge corresponding to desired screw diameter.

Connect the corresponding driver to the Ratcheting AO Handle (770017010) to advance and seat the screw (Figure 41 & 42).

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42



43

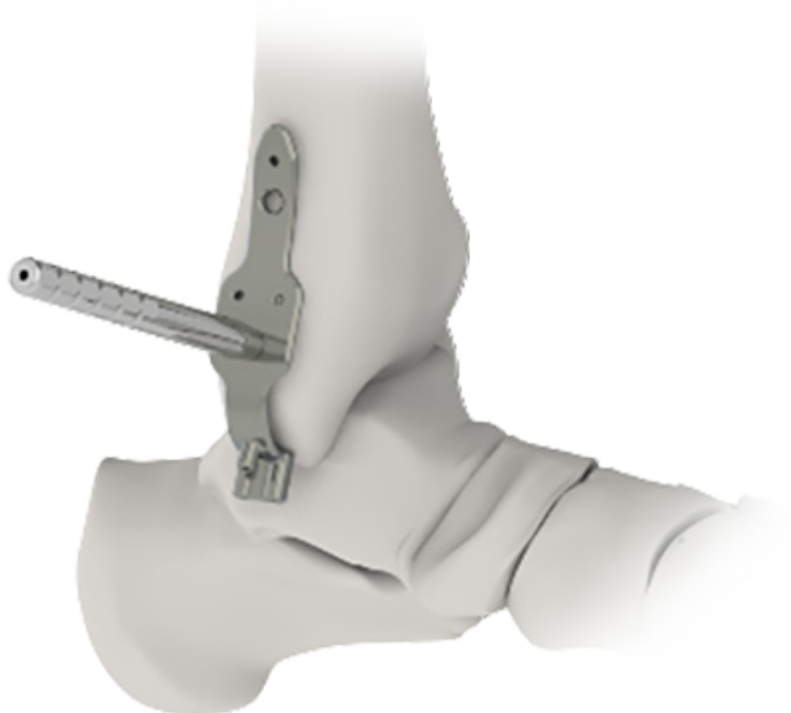
Fill the desired remaining screw holes following the above technique (Figure 43).

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## Surgical Technique - Medial Malleolus Hook Plate

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44



Make a longitudinal incision over the central aspect of the medial malleolus. Continue along the incised area with soft tissue dissection to allow exposure of the fracture site.

Expose and clean the fracture site and reduce the fracture. It is critical that fibular length, alignment, and rotation are accurately restored in the fracture reduction. Provisional reduction can be maintained with k-wires or reduction forceps, per surgeon preference.

Once adequate reduction has been maintained, select the appropriate medial malleolus hook plate for the fracture type and size. The drill guide is used as a template to determine implant positioning. A bending pin can be used as a handle for easier placement.

Once the desired placement is achieved, the guide must be secured in two locations using K-Wires or plate tacks. A K-Wire through the hole adjacent to the drill guide barrels should be placed. This will guide implant insertion.

Once fixated (minimum two locations). Punch the cortex using the 2.5mm drill (use the 2.0mm drill for the fibula hook drill guide).

After drilling, remove all fixation wires/tacks EXCEPT for the K-Wire in the hole adjacent to the drill guide barrels. Remove the drill guide by sliding it off the K-Wire inserted adjacent to the drill barrels.

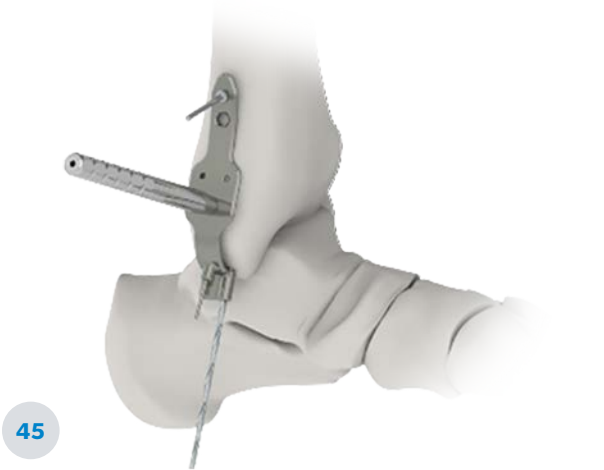
The hook plate tamp instrument is to be threaded onto the hook plate implant in the screw hole near the tines. Slide the hook plate tamp over the K-Wire that was used with the hook plate drill guide. This will help align the plate with the pilot holes created for the tines. Slide the plate up to the bone until the pilot holes are located. A mallet can be used to tamp the implant into place.

Once tamped into place, apply temporary fixation to hold the plate in the intended location (Figure 44).



## Surgical Technique - Medial Malleolus Hook Plate

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The use of fluoroscopic imaging during plate placement in both the AP and lateral planes is recommended.

Plate tacks can be used to secure the plate to bone. Confirm plate placement using temporary fixation (Figure 45).

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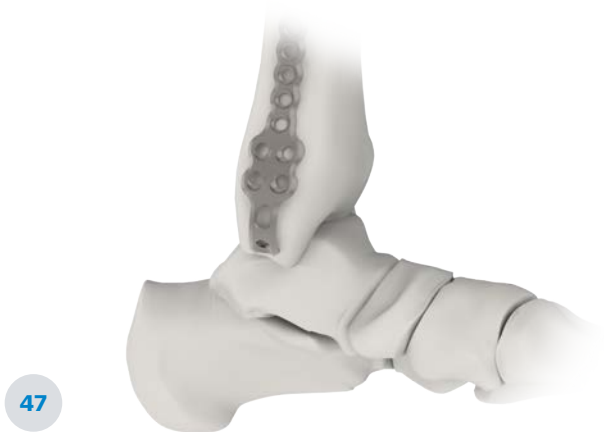
Based on the fracture site, select a locking hole to insert the first screw into and identify the proper screw for fixation.

All plate holes accept 2.7 mm, 3.5 mm (locking or non-locking) or 4.0 mm (non-locking) screws.

Select the appropriately sized drill guide (770004270 / 770006270 / 770004350 / 770006350) based on screw diameter and place it in the chosen hole (Figure 46).

Optionally, users may use the corresponding Overdrill 770003270 / 770003350 / 770003400 or Countersink (770008270) if required for the desired indication.

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Drill to the desired depth using the appropriate drill for the desired screw diameter.

If using the ThreadIn/Fixed Drill Guide, screw length can be measured by either using the Depth Gauge (770009270) or by using the Thread In Drill Guide to read the measurement marks from the drill.

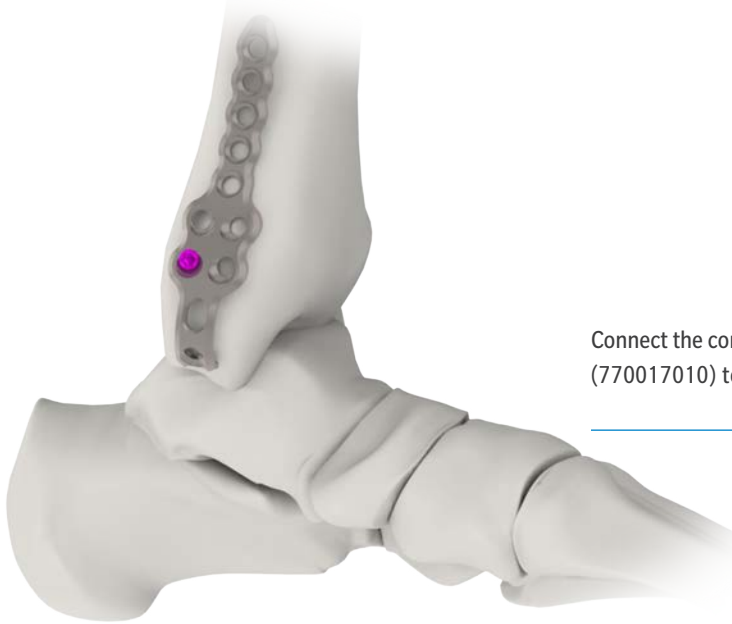
If using either side of the Double Drill Guide, screw length can only be measured using the Depth Gauge corresponding to desired screw diameter (Figure 47).

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## Surgical Technique - Medial Malleolus Hook Plate

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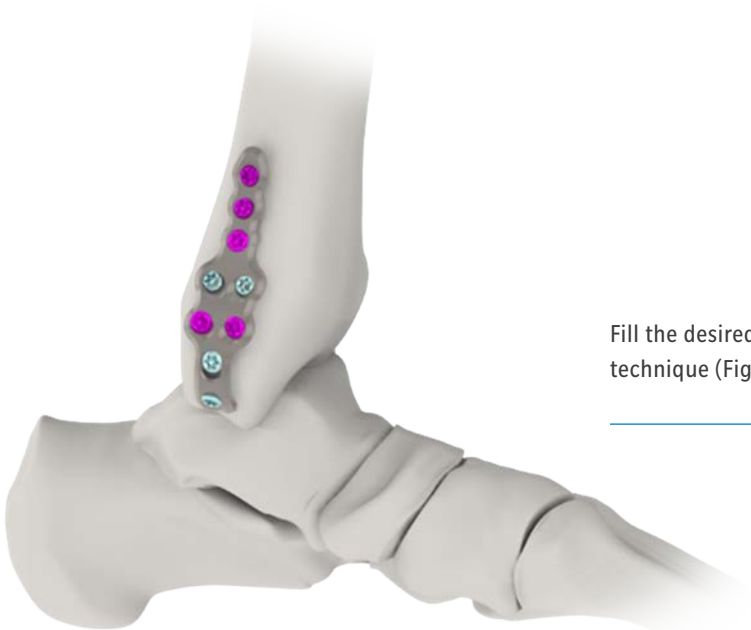
48



Connect the corresponding driver to the Ratcheting AO Handle (770017010) to advance and seat the screw (Figure 48).

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49



Fill the desired remaining screw holes following the above technique (Figure 49).

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## Postoperative Care

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Early range of motion exercises of the ankle are encouraged. Allow toe-touch weight bearing to progress to full weight bearing as fracture callus increases on the x-ray films. It is the responsibility of the surgeon to determine what is the most suitable postoperative care depending on each patient's health condition.

## Implant Removal

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To remove locking screws, use the T-15 Driver. First unlock all screws from the plate and then remove screws completely. Please refer to the package insert for product information, including contraindications, warnings, and precautionary information.

## References

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1. ZipTight Ankle Syndesmosis Surgical Technique (2265.1-GLBL-en-REV0419)
2. JugggerLoc Ankle Syndesmosis Surgical Technique (1326.1-US-en-REV1117)

# Ordering Information

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## Ordering Information

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### 2.7 mm Non-Locking Screws

| Part#     | Description                  |
|-----------|------------------------------|
| 770270010 | 2.7mm Non-Locking Screw 10mm |
| 770270012 | 2.7mm Non-Locking Screw 12mm |
| 770270014 | 2.7mm Non-Locking Screw 14mm |
| 770270016 | 2.7mm Non-Locking Screw 16mm |
| 770270018 | 2.7mm Non-Locking Screw 18mm |
| 770270020 | 2.7mm Non-Locking Screw 20mm |
| 770270022 | 2.7mm Non-Locking Screw 22mm |
| 770270024 | 2.7mm Non-Locking Screw 24mm |
| 770270026 | 2.7mm Non-Locking Screw 26mm |
| 770270028 | 2.7mm Non-Locking Screw 28mm |
| 770270030 | 2.7mm Non-Locking Screw 30mm |
| 770270032 | 2.7mm Non-Locking Screw 32mm |
| 770270034 | 2.7mm Non-Locking Screw 34mm |
| 770270036 | 2.7mm Non-Locking Screw 36mm |
| 770270038 | 2.7mm Non-Locking Screw 38mm |
| 770270040 | 2.7mm Non-Locking Screw 40mm |
| 770270042 | 2.7mm Non-Locking Screw 42mm |
| 770270044 | 2.7mm Non-Locking Screw 44mm |
| 770270046 | 2.7mm Non-Locking Screw 46mm |
| 770270048 | 2.7mm Non-Locking Screw 48mm |
| 770270050 | 2.7mm Non-Locking Screw 50mm |
| 770270055 | 2.7mm Non-Locking Screw 55mm |
| 770270060 | 2.7mm Non-Locking Screw 60mm |

### 2.7 mm Non-Locking Screws

| Part#     | Description                   |
|-----------|-------------------------------|
| 770270065 | 2.7mm Non-Locking Screw 65mm  |
| 770270070 | 2.7mm Non-Locking Screw 70mm  |
| 770270075 | 2.7mm Non-Locking Screw 75mm  |
| 770270080 | 2.7mm Non-Locking Screw 80mm  |
| 770270085 | 2.7mm Non-Locking Screw 85mm  |
| 770270090 | 2.7mm Non-Locking Screw 90mm  |
| 770270095 | 2.7mm Non-Locking Screw 95mm  |
| 770270100 | 2.7mm Non-Locking Screw 100mm |

## Ordering Information

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### 2.7 mm Locking Screws

| Part#     | Description            |
|-----------|------------------------|
| 770271010 | 2.7mm Locking MDS 10mm |
| 770271012 | 2.7mm Locking MDS 12mm |
| 770271014 | 2.7mm Locking MDS 14mm |
| 770271016 | 2.7mm Locking MDS 16mm |
| 770271018 | 2.7mm Locking MDS 18mm |
| 770271020 | 2.7mm Locking MDS 20mm |
| 770271022 | 2.7mm Locking MDS 22mm |
| 770271024 | 2.7mm Locking MDS 24mm |
| 770271026 | 2.7mm Locking MDS 26mm |
| 770271028 | 2.7mm Locking MDS 28mm |
| 770271030 | 2.7mm Locking MDS 30mm |
| 770271032 | 2.7mm Locking MDS 32mm |
| 770271034 | 2.7mm Locking MDS 34mm |
| 770271036 | 2.7mm Locking MDS 36mm |
| 770271038 | 2.7mm Locking MDS 38mm |
| 770271040 | 2.7mm Locking MDS 40mm |
| 770271042 | 2.7mm Locking MDS 42mm |
| 770271044 | 2.7mm Locking MDS 44mm |
| 770271046 | 2.7mm Locking MDS 46mm |
| 770271048 | 2.7mm Locking MDS 48mm |
| 770271050 | 2.7mm Locking MDS 50mm |
| 770271055 | 2.7mm Locking MDS 55mm |
| 770271060 | 2.7mm Locking MDS 60mm |

### 2.7 mm Locking Screws

| Part#     | Description             |
|-----------|-------------------------|
| 770271065 | 2.7mm Locking MDS 65mm  |
| 770271070 | 2.7mm Locking MDS 70mm  |
| 770271075 | 2.7mm Locking MDS 75mm  |
| 770271080 | 2.7mm Locking MDS 80mm  |
| 770271085 | 2.7mm Locking MDS 85mm  |
| 770271090 | 2.7mm Locking MDS 90mm  |
| 770271095 | 2.7mm Locking MDS 95mm  |
| 770271100 | 2.7mm Locking MDS 100mm |

## Ordering Information

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### 3.5 mm Non-Locking Screws

| Part#     | Description                  |
|-----------|------------------------------|
| 770350010 | 3.5mm Non-Locking Screw 10mm |
| 770350012 | 3.5mm Non-Locking Screw 12mm |
| 770350014 | 3.5mm Non-Locking Screw 14mm |
| 770350016 | 3.5mm Non-Locking Screw 16mm |
| 770350018 | 3.5mm Non-Locking Screw 18mm |
| 770350020 | 3.5mm Non-Locking Screw 20mm |
| 770350022 | 3.5mm Non-Locking Screw 22mm |
| 770350024 | 3.5mm Non-Locking Screw 24mm |
| 770350026 | 3.5mm Non-Locking Screw 26mm |
| 770350028 | 3.5mm Non-Locking Screw 28mm |
| 770350030 | 3.5mm Non-Locking Screw 30mm |
| 770350032 | 3.5mm Non-Locking Screw 32mm |
| 770350034 | 3.5mm Non-Locking Screw 34mm |
| 770350036 | 3.5mm Non-Locking Screw 36mm |
| 770350038 | 3.5mm Non-Locking Screw 38mm |
| 770350040 | 3.5mm Non-Locking Screw 40mm |
| 770350042 | 3.5mm Non-Locking Screw 42mm |
| 770350044 | 3.5mm Non-Locking Screw 44mm |
| 770350046 | 3.5mm Non-Locking Screw 46mm |
| 770350048 | 3.5mm Non-Locking Screw 48mm |
| 770350050 | 3.5mm Non-Locking Screw 50mm |
| 770350055 | 3.5mm Non-Locking Screw 55mm |
| 770350060 | 3.5mm Non-Locking Screw 60mm |

### 3.5 mm Non-Locking Screws

| Part#     | Description                   |
|-----------|-------------------------------|
| 770350065 | 3.5mm Non-Locking Screw 65mm  |
| 770350070 | 3.5mm Non-Locking Screw 70mm  |
| 770350075 | 3.5mm Non-Locking Screw 75mm  |
| 770350080 | 3.5mm Non-Locking Screw 80mm  |
| 770350085 | 3.5mm Non-Locking Screw 85mm  |
| 770350090 | 3.5mm Non-Locking Screw 90mm  |
| 770350095 | 3.5mm Non-Locking Screw 95mm  |
| 770350100 | 3.5mm Non-Locking Screw 100mm |

## Ordering Information

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### 3.5 mm Locking Screws

| Part#     | Description            |
|-----------|------------------------|
| 770351010 | 3.5mm Locking MDS 10mm |
| 770351012 | 3.5mm Locking MDS 12mm |
| 770351014 | 3.5mm Locking MDS 14mm |
| 770351016 | 3.5mm Locking MDS 16mm |
| 770351018 | 3.5mm Locking MDS 18mm |
| 770351020 | 3.5mm Locking MDS 20mm |
| 770351022 | 3.5mm Locking MDS 22mm |
| 770351024 | 3.5mm Locking MDS 24mm |
| 770351026 | 3.5mm Locking MDS 26mm |
| 770351028 | 3.5mm Locking MDS 28mm |
| 770351030 | 3.5mm Locking MDS 30mm |
| 770351032 | 3.5mm Locking MDS 32mm |
| 770351034 | 3.5mm Locking MDS 34mm |
| 770351036 | 3.5mm Locking MDS 36mm |
| 770351038 | 3.5mm Locking MDS 38mm |
| 770351040 | 3.5mm Locking MDS 40mm |
| 770351042 | 3.5mm Locking MDS 42mm |
| 770351044 | 3.5mm Locking MDS 44mm |
| 770351046 | 3.5mm Locking MDS 46mm |
| 770351048 | 3.5mm Locking MDS 48mm |
| 770351050 | 3.5mm Locking MDS 50mm |
| 770351055 | 3.5mm Locking MDS 55mm |
| 770351060 | 3.5mm Locking MDS 60mm |

### 3.5 mm Locking Screws

| Part#     | Description             |
|-----------|-------------------------|
| 770351065 | 3.5mm Locking MDS 65mm  |
| 770351070 | 3.5mm Locking MDS 70mm  |
| 770351075 | 3.5mm Locking MDS 75mm  |
| 770351080 | 3.5mm Locking MDS 80mm  |
| 770351085 | 3.5mm Locking MDS 85mm  |
| 770351090 | 3.5mm Locking MDS 90mm  |
| 770351095 | 3.5mm Locking MDS 95mm  |
| 770351100 | 3.5mm Locking MDS 100mm |



## Ordering Information

### 4.0 mm Non-Locking Screws

| Part#     | Description                  |
|-----------|------------------------------|
| 770400010 | 4.0mm Non-Locking Screw 10mm |
| 770400012 | 4.0mm Non-Locking Screw 12mm |
| 770400014 | 4.0mm Non-Locking Screw 14mm |
| 770400016 | 4.0mm Non-Locking Screw 16mm |
| 770400018 | 4.0mm Non-Locking Screw 18mm |
| 770400020 | 4.0mm Non-Locking Screw 20mm |
| 770400022 | 4.0mm Non-Locking Screw 22mm |
| 770400024 | 4.0mm Non-Locking Screw 24mm |
| 770400026 | 4.0mm Non-Locking Screw 26mm |
| 770400028 | 4.0mm Non-Locking Screw 28mm |
| 770400030 | 4.0mm Non-Locking Screw 30mm |
| 770400032 | 4.0mm Non-Locking Screw 32mm |
| 770400034 | 4.0mm Non-Locking Screw 34mm |
| 770400036 | 4.0mm Non-Locking Screw 36mm |
| 770400038 | 4.0mm Non-Locking Screw 38mm |
| 770400040 | 4.0mm Non-Locking Screw 40mm |
| 770400042 | 4.0mm Non-Locking Screw 42mm |
| 770400044 | 4.0mm Non-Locking Screw 44mm |
| 770400046 | 4.0mm Non-Locking Screw 46mm |
| 770400048 | 4.0mm Non-Locking Screw 48mm |
| 770400050 | 4.0mm Non-Locking Screw 50mm |
| 770400055 | 4.0mm Non-Locking Screw 55mm |
| 770400060 | 4.0mm Non-Locking Screw 60mm |

### 4.0 mm Non-Locking Screws

| Part#     | Description                   |
|-----------|-------------------------------|
| 770400065 | 4.0mm Non-Locking Screw 65mm  |
| 770400070 | 4.0mm Non-Locking Screw 70mm  |
| 770400075 | 4.0mm Non-Locking Screw 75mm  |
| 770400080 | 4.0mm Non-Locking Screw 80mm  |
| 770400085 | 4.0mm Non-Locking Screw 85mm  |
| 770400090 | 4.0mm Non-Locking Screw 90mm  |
| 770400095 | 4.0mm Non-Locking Screw 95mm  |
| 770400100 | 4.0mm Non-Locking Screw 100mm |

### Anatomic Lateral Fibula Plates

| Part#     | Description                   |
|-----------|-------------------------------|
| 770708041 | Anatomic Lat Fib Plate 4H LT  |
| 770708042 | Anatomic Lat Fib Plate 4H RT  |
| 770708061 | Anatomic Lat Fib Plate 6H LT  |
| 770708062 | Anatomic Lat Fib Plate 6H RT  |
| 770708081 | Anatomic Lat Fib Plate 8H LT  |
| 770708082 | Anatomic Lat Fib Plate 8H RT  |
| 770708101 | Anatomic Lat Fib Plate 10H LT |
| 770708102 | Anatomic Lat Fib Plate 10H RT |
| 770708121 | Anatomic Lat Fib Plate 12H LT |
| 770708122 | Anatomic Lat Fib Plate 12H RT |

## Ordering Information

### Anatomic Lateral Fibula Plates

| Part#     | Description                   |
|-----------|-------------------------------|
| 770708041 | Anatomic Lat Fib Plate 4H LT  |
| 770708042 | Anatomic Lat Fib Plate 4H RT  |
| 770708061 | Anatomic Lat Fib Plate 6H LT  |
| 770708062 | Anatomic Lat Fib Plate 6H RT  |
| 770708081 | Anatomic Lat Fib Plate 8H LT  |
| 770708082 | Anatomic Lat Fib Plate 8H RT  |
| 770708101 | Anatomic Lat Fib Plate 10H LT |
| 770708102 | Anatomic Lat Fib Plate 10H RT |
| 770708121 | Anatomic Lat Fib Plate 12H LT |
| 770708122 | Anatomic Lat Fib Plate 12H RT |

### Posterior Fibula Plates

| Part#     | Description                   |
|-----------|-------------------------------|
| 770709081 | Posterior Fibula Plate 8H LT  |
| 770709082 | Posterior Fibula Plate 8H RT  |
| 770709101 | Posterior Fibula Plate 10H LT |
| 770709102 | Posterior Fibula Plate 10H RT |
| 770709141 | Posterior Fibula Plate 14H LT |
| 770709142 | Posterior Fibula Plate 14H RT |

### 1/3 Tubular Plates

| Part#     | Description           |
|-----------|-----------------------|
| 770711020 | 1/3 Tubular Plate 2h  |
| 770711040 | 1/3 Tubular Plate 4h  |
| 770711060 | 1/3 Tubular Plate 6h  |
| 770711080 | 1/3 Tubular Plate 8h  |
| 770711100 | 1/3 Tubular Plate 10h |
| 770711120 | 1/3 Tubular Plate 12h |
| 770711150 | 1/3 Tubular Plate 15h |

### Fibula Hook Plates

| Part#     | Description          |
|-----------|----------------------|
| 770712040 | Fibula Hook plate 4H |
| 770712060 | Fibula Hook plate 6H |

### Medial Malleolous Hook Plates

| Part#     | Description                  |
|-----------|------------------------------|
| 770720030 | Med Malleolous Hook Plate 3H |
| 770720050 | Med Malleolous Hook Plate 5H |

## Ordering Information

### Anterolateral Tibia Plates - Narrow

| Part#     | Description                  |
|-----------|------------------------------|
| 770713061 | Antlateral Tib Plt 6H LT Nr  |
| 770713062 | Antlateral Tib Plt 6H RT Nr  |
| 770713101 | Antlateral Tib Plt 10H LT Nr |
| 770713102 | Antlateral Tib Plt 10H RT Nr |
| 770713121 | Antlateral Tib Plt 12H LT Nr |
| 770713122 | Antlateral Tib Plt 12H RT Nr |
| 770713161 | Antlateral Tib Plt 16H LT Nr |
| 770713162 | Antlateral Tib Plt 16H RT Nr |

### Medial Tibia Plates

| Part#     | Description               |
|-----------|---------------------------|
| 770715061 | Medial Tibia Plate 6H LT  |
| 770715062 | Medial Tibia Plate 6H RT  |
| 770715101 | Medial Tibia Plate 10H LT |
| 770715102 | Medial Tibia Plate 10H RT |
| 770715121 | Medial Tibia Plate 12H LT |
| 770715122 | Medial Tibia Plate 12H RT |
| 770715161 | Medial Tibia Plate 16H LT |
| 770715162 | Medial Tibia Plate 16H RT |

### Anterolateral Tibia Plates - Wide

| Part#     | Description                    |
|-----------|--------------------------------|
| 770714061 | Antlateral Tib Plt 6H LT Wide  |
| 770714062 | Antlateral Tib Plt 6h RT Wide  |
| 770714101 | Antlateral Tib Plt 10h LT Wide |
| 770714102 | Antlateral Tib Plt 10h RT Wide |
| 770714121 | Antlateral Tib Plt 12h LT Wide |
| 770714122 | Antlateral Tib Plt 12h RT Wide |
| 770714161 | Antlateral Tib Plt 16h LT Wide |
| 770714162 | Antlateral Tib Plt 16h RT Wide |

### Posterolateral Tibia Plates

| Part#     | Description                 |
|-----------|-----------------------------|
| 770718421 | Postlat Tibia Plate 4-2H LT |
| 770718422 | Postlat Tibia Plate 4-2H RT |
| 770718441 | Postlat Tibia Plate 4-4H LT |
| 770718442 | Postlat Tibia Plate 4-4H RT |
| 770718451 | Postlat Tibia Plate 4-5H LT |
| 770718452 | Postlat Tibia Plate 4-5H RT |
| 770718621 | Postlat Tibia Plate 6-2H LT |
| 770718622 | Postlat Tibia Plate 6-2H RT |
| 770718641 | Postlat Tibia Plate 6-4H LT |
| 770718642 | Postlat Tibia Plate 6-4H RT |
| 770718651 | Postlat Tibia Plate 6-5H LT |
| 770718652 | Postlat Tibia Plate 6-5H RT |

## Ordering Information

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### Anterior Tibia Plates - Narrow

| Part#     | Description                  |
|-----------|------------------------------|
| 770716040 | Anterior Tib Plate 4h Narrow |
| 770716060 | Anterior Tib Plate 6h Narrow |
| 770716080 | Anterior Tib Plate 8h Narrow |

### Anterior Tibia Plates - Wide

| Part#     | Description                |
|-----------|----------------------------|
| 770717040 | Anterior Tib Plate 4h Wide |
| 770717060 | Anterior Tib Plate 6h Wide |
| 770717080 | Anterior Tib Plate 8h Wide |

### ALPS mvX Cases & Trays

| Part#          | Description                    |
|----------------|--------------------------------|
| 00-5900-099-00 | Generic Stackable Lid Assy     |
| 770104050      | Ankle Distal Fibula Plate Tray |
| 770102010      | Ankle Distal Fib Plt Tray Lid  |
| 770103050      | Ankle Screw Rack               |
| 770107050      | Ankle Screw Rack Lid           |
| 770101040      | Ankle Outer Case 2             |
| 770101030      | Ankle Outer Case 1             |
| 770105040      | Ankle Instrument Tray 1        |
| 770105050      | Ankle Instrument Tray 2        |

## Ordering Information

### ALPS mvX Cases & Trays

| Part#     | Description                      |
|-----------|----------------------------------|
| 770009270 | 2.7/3.5/4.0mm Depth Gauge        |
| 770004270 | Threadin/Fixed 2.7mm Drl Gde     |
| 770013020 | Fibula Hook Plate Drill Guide    |
| 770012010 | Hook Plate Tamp                  |
| 770013010 | Medial Malleolus Drill Guide     |
| 770020020 | Plate Cutters                    |
| 770006270 | 2.0mm Fixed Angle/Va Dbl Drl Gde |
| 770025010 | Plate Distractor                 |
| 770017010 | Ratcheting AO Handle             |
| 770007270 | 2.0/2.7mm Overdrill Guide        |
| 770004350 | Threadin/Fixed 2.5mm Drl Gde     |
| 770006350 | 2.5mm Fx Ang/Va Dbl Drl Gd       |
| 770007350 | 2.5/3.5mm Overdrill Guide        |
| 770007400 | 2.5/4.0mm Overdrill Guide        |
| 770016270 | 2.7/3.5/4.0mm Bending Pin        |
| 770003350 | 3.5mm Overdrill                  |
| 770003400 | 4.0mm Overdrill                  |
| 770001151 | T15 Retention Driver Long        |
| 770008270 | 2.7/3.5/4.0mm Countersink        |
| 770015240 | 2.0/2.4/2.7/3.5/4.0mm Plate Tk   |
| 770018160 | 1.6mm K-Wire 6 In                |
| 770002200 | 2.0mm Drill Short                |
| 770002251 | 2.5mm Drill Long                 |

### ALPS mvX Cases & Trays

| Part#     | Description               |
|-----------|---------------------------|
| 770002250 | 2.5mm Drill Short         |
| 770003270 | 2.7mm Overdrill           |
| 770002201 | 2.0mm Drill Long          |
| 13573     | Reduct Forcep W/Jaw       |
| 13572     | Sharp Hook                |
| 13566     | Periosteal Elevator       |
| MHR       | Retractor Mini Hohmann    |
| 13577     | Reduct Forcep W/Points Lg |
| 824129000 | Bending Iron 3.5mm        |
| 214213568 | Reduct Forcep W/Points    |
| 770800027 | 2.7mm Screw Washer        |
| 770800035 | 3.5mm Screw Washer        |
| 770800040 | 4.0mm Screw Washer        |





**A.L.P.S.™ mvX Ankle**

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**Fracture System**

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