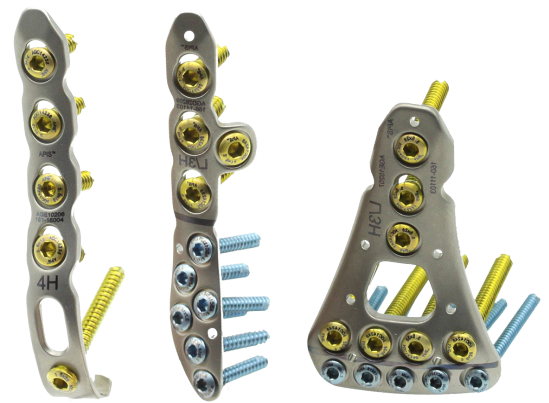


ANKLE








LOCKING PLATE & SCREW SYSTEM

SURGICAL TECHNIQUE



THE ANKLE LOCKING PLATE AND SCREW SYSTEM offers multiple fixation options in a variety of configurations. Plates in this system are intended for use in the distal fibula, tibia, and calcaneus. The low profile plates are constructed of titanium and are used with solid locking and non-locking screws. The titanium alloy screws range in length from 10mm-50mm and are available in 3.5mm diameter for the shaft and 2.7mm diameter distally.

ANKLE LOCKING PLATE SYSTEM OPTIONS

FIBULAR LOCKING PLATES		CALCANEUS LOCKING PLATE
<div><p>Locking/DCP Holes 3.5mm Screws Locking or Cortical</p><p>Syndesmosis Screw Holes</p><p>Distal Locking Holes 2.7mm Screws Locking or Cortical</p></div> <div><p>LATERAL 3 to 7 Hole Left and Right</p></div>	<div><p>Locking/DCP Holes 3.5mm Screws Locking or Cortical</p><p>Syndesmosis Screw Hole</p><p>Distal Locking Holes 2.7mm Screws Locking or Cortical</p></div> <div><p>POSTERIOR 3 to 5 Hole Left and Right</p></div>	<div><p>Locking or Cortical Holes 3.5mm Screws</p></div> <div><p>CALCANEUS 50, 60, and 70mm</p></div>
DISTAL TIBIA LOCKING PLATES		
<div><p>Locking/DCP Holes 3.5mm Screws Locking or Cortical</p><p>Distal Locking Holes 2.7mm Screws Locking or Cortical</p></div> <div><p>ANTERIOR 3 to 6 Hole Left and Right</p></div>	<div><p>Locking/DCP Holes 3.5mm Screws Locking or Cortical</p><p>Distal Locking Holes 2.7mm Screws Locking or Cortical</p></div> <div><p>POSTERIOR 3 to 6 Hole Left and Right</p></div>	<div><p>Locking/DCP Holes 3.5mm Screws Locking or Cortical</p></div> <div><p>MEDIAL 3 and 4 Hole</p></div> <div><p>Locking/DCP Holes 3.5mm Screws Locking or Cortical</p></div> <div><p>MEDIAL (HOOK) 3 and 4 Hole</p></div>

1

FRACTURE REDUCTION & TEMPORARY FIXATION

Reduce the fracture and stabilize with lag screws, bone clamps, and temporary fixation K-wires.

2

PLATE PLACEMENT & POSITIONING

The **Ankle Locking Plate and Screw System** offers two fibular plate options, each with a cluster of 2.7mm distal screw holes. Select and position the appropriate plate for the fracture.



LATERAL PLATE

Lateral placement with one or two posteriorly oriented syndesmotic screw holes



POSTERIOR PLATE

Posterior placement with one anteriorly oriented syndesmotic screw hole

Secure the plate in place using bone clamps or temporary fixation **1.4mm K-wires**.

3

SCREW INSERTION

Note: The fracture pattern will dictate the optimal screw placement. All screw holes can accept either locking or cortical screws. Shaft screws are 3.5mm; screws distal to the laser line on distal plates are 2.7mm.

Drill using the appropriate drill bit and drill sleeve for the selected screw.

3.5mm Screws

Cortical (White Instruments)

- 2.5mm Drill Bit
- 2.5mm Single Handle Drill Sleeve

Locking (Blue Instruments)

- 2.7mm Drill Bit
- 2.7mm Locking Drill Sleeve **or**
2.7mm Single Handle Locking Drill Sleeve
for insertion through Drill Guide Block

2.7mm Screws (Yellow Instruments)

Cortical

- 2.0mm Drill Bit
- 2.0mm Single Handle Drill Sleeve

Locking

- 2.0mm Drill Bit
- 2.0mm Locking Drill Sleeve **or**
2.0mm Single Handle Locking Drill Sleeve
for insertion through Drill Guide Block

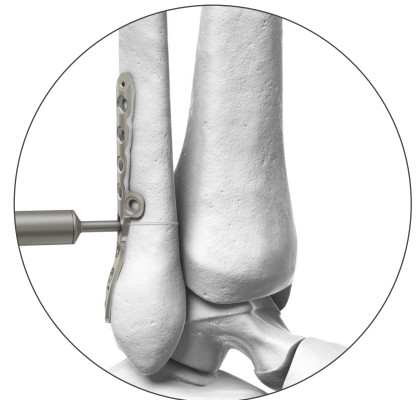
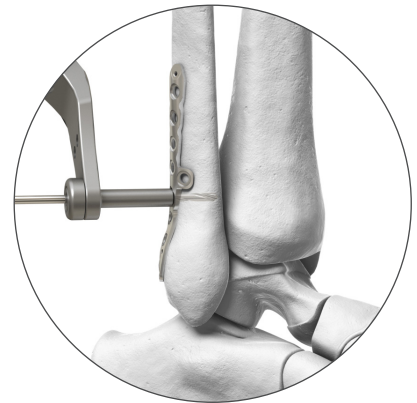
Use the **2.7/3.5/4.0mm Depth Gauge** to determine appropriate screw length.

Note: The Depth Gauge reading will place the screw tip slightly beyond the bone in order to ensure fixation in the far cortex. For screw insertion without protrusion, use a screw one size smaller than the measured length.

Insert the appropriate screw using the **2.0mm Hex Screwdriver** for 2.7mm Screws or the **2.5mm Hex Screwdriver** for 3.5mm Screws.

Insert remaining screws as needed for the fracture.

Two screw holes extend posteriorly from the Lateral Plate shaft and one screw hole extends anteriorly from the Posterior Plate shaft for syndesmosis screws if needed.



1

FRACTURE REDUCTION & TEMPORARY FIXATION

Reduce the fracture and stabilize with lag screws, bone clamps, and temporary fixation K-wires.

2

PLATE PLACEMENT & POSITIONING

The **Ankle Locking Plate and Screw System** offers four tibia plate options with varying screw configurations. Select and position the appropriate plate for the fracture.



ANTERIOR PLATE

Anterior placement with one row of 3.5mm and one row of 2.7mm distal screw holes



POSTERIOR PLATE

Posterior placement with 3.5mm shaft screw and 2.7mm distal screw holes



MEDIAL PLATE

Medial malleolar placement with 3.5mm screws



MEDIAL PLATE, HOOK

Medial malleolar placement with a distal hook and 3.5mm screws

Secure the plate in place using bone clamps or temporary fixation **1.4mm K-wires**.

3

SCREW INSERTION

Note: The fracture pattern will dictate the optimal screw placement. Most screw holes can accept either locking or cortical screws. The large oval hole in the Medial Hook Plate accepts only 3.5mm Cortical Screws. In all plates, shaft screws are 3.5mm; screws distal to the laser line on distal plates are 2.7mm.

Drill using the appropriate drill bit and drill sleeve for the selected screw.

3.5mm Screws

Cortical (White Instruments)

- 2.5mm Drill Bit
- 2.5mm Single Handle Drill Sleeve

Locking (Blue Instruments)

- 2.7mm Drill Bit
- 2.7mm Locking Drill Sleeve **or**
2.7mm Single Handle Locking Drill Sleeve
for insertion through Drill Guide Block

2.7mm Screws (Yellow Instruments)

Cortical

- 2.0mm Drill Bit
- 2.0mm Single Handle Drill Sleeve

Locking

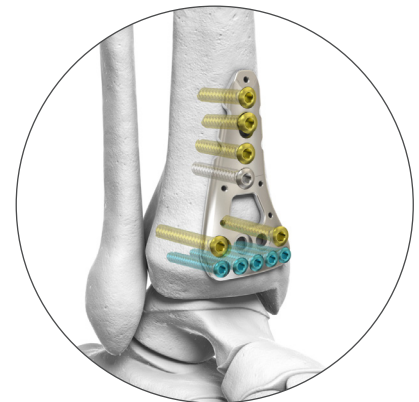
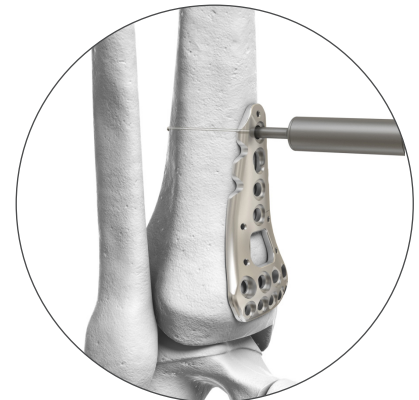
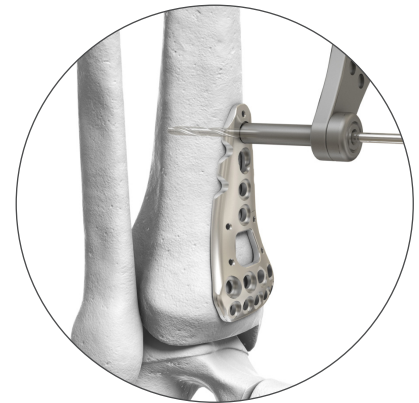
- 2.0mm Drill Bit
- 2.0mm Locking Drill Sleeve **or**
2.0mm Single Handle Locking Drill Sleeve
for insertion through Drill Guide Block

Use the **2.7/3.5/4.0mm Depth Gauge** to determine appropriate screw length.

Note: The Depth Gauge reading will place the screw tip slightly beyond the bone in order to ensure fixation in the far cortex. For screw insertion without protrusion, use a screw one size smaller than the measured length.

Insert the appropriate screw using the **2.0mm Hex Screwdriver** for 2.7mm Screws or the **2.5mm Hex Screwdriver** for 3.5mm Screws.

Insert remaining screws as needed for the fracture.



ANKLE LOCKING PLATE & SCREW SYSTEM

CALCANEUS PLATE

The **Ankle Locking Plate and Screw System** offers a locking calcaneus plate that uses 3.5mm locking or cortical screws.



IMPLANT REMOVAL (IF NECESSARY)

Fully expose the plate and screws, including removing any bone or soft-tissue growth into the screw heads.

Using the corresponding Screwdriver, unlock all screws from the plate to prevent plate rotation during removal. Remove all screws fully from the construct.

Remove the plate from the bone using an elevator, osteotome, or forceps.

Indications

Small Locking Plate and Screw System:

The small locking plate and screw system is indicated for the clavicle, scapula, olecranon, humerus, radius, ulna, tibia, calcaneus, and fibula.

The TDM Screws (1.5mm and larger, solid) are intended to be used with the plate for internal bone fixation for bone fractures, fusions, osteotomies and non-unions in the foot, hand, wrist, clavicle, scapula, olecranon, humerus, radius, ulna, tibia, calcaneus, and fibula.

Contraindications

- Do not use for surgeries other than those indicated.
- In case of material sensitivity, documented or suspected, appropriate tests should be performed for material suitability prior to implantation.
- Severe osteoporosis, compromised bone stock, insufficient or immature bone may not be suitable for use of this device.
- Any active or suspected latent infection, sepsis or marked local inflammation in or around the surgical area.
- Physical interference with other implants during implantation or use.
- Compromised vascularity, inadequate skin or neurovascular status.
- Patients who are unwilling or incapable of following post-operative care instructions.

Please refer to package insert for additional usage information.

ANKLE LOCKING PLATE & SCREW SYSTEM
TRAY LAYOUT

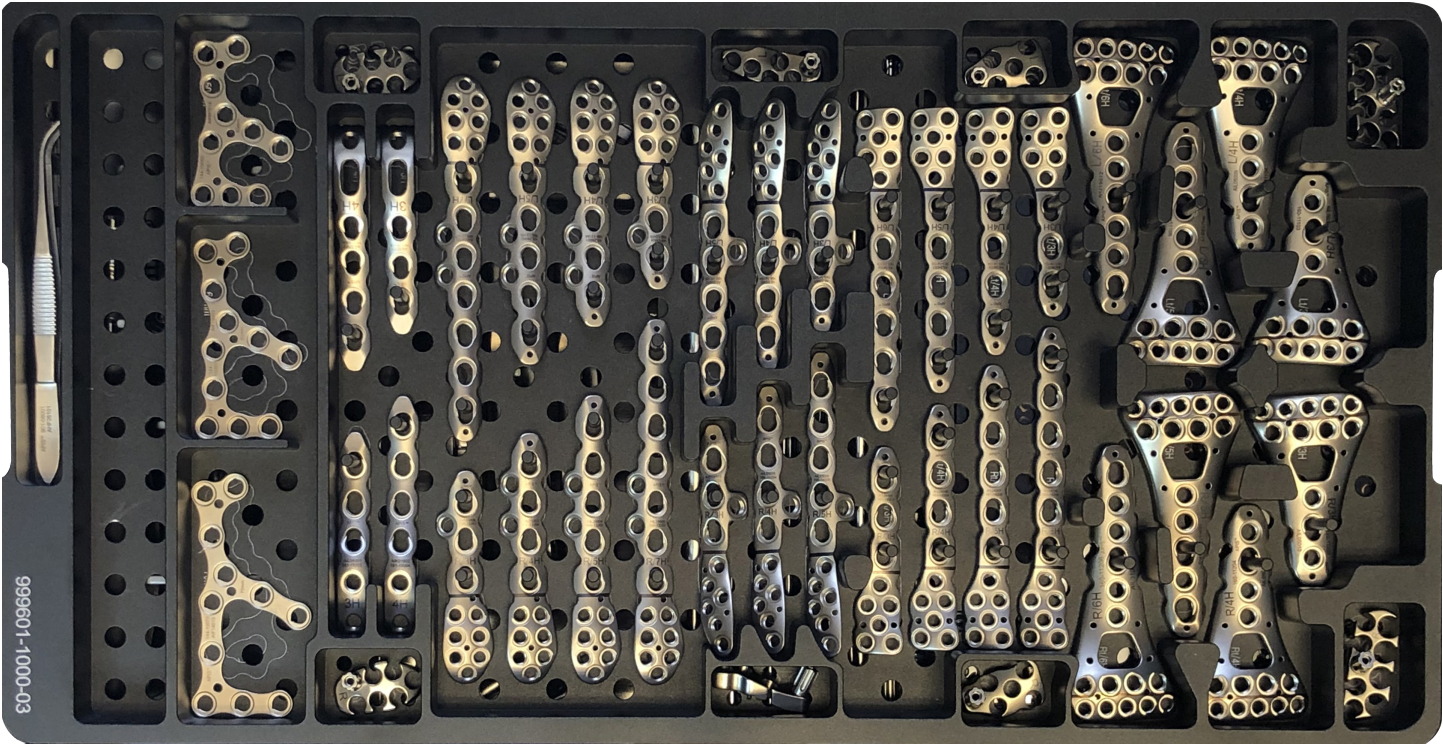
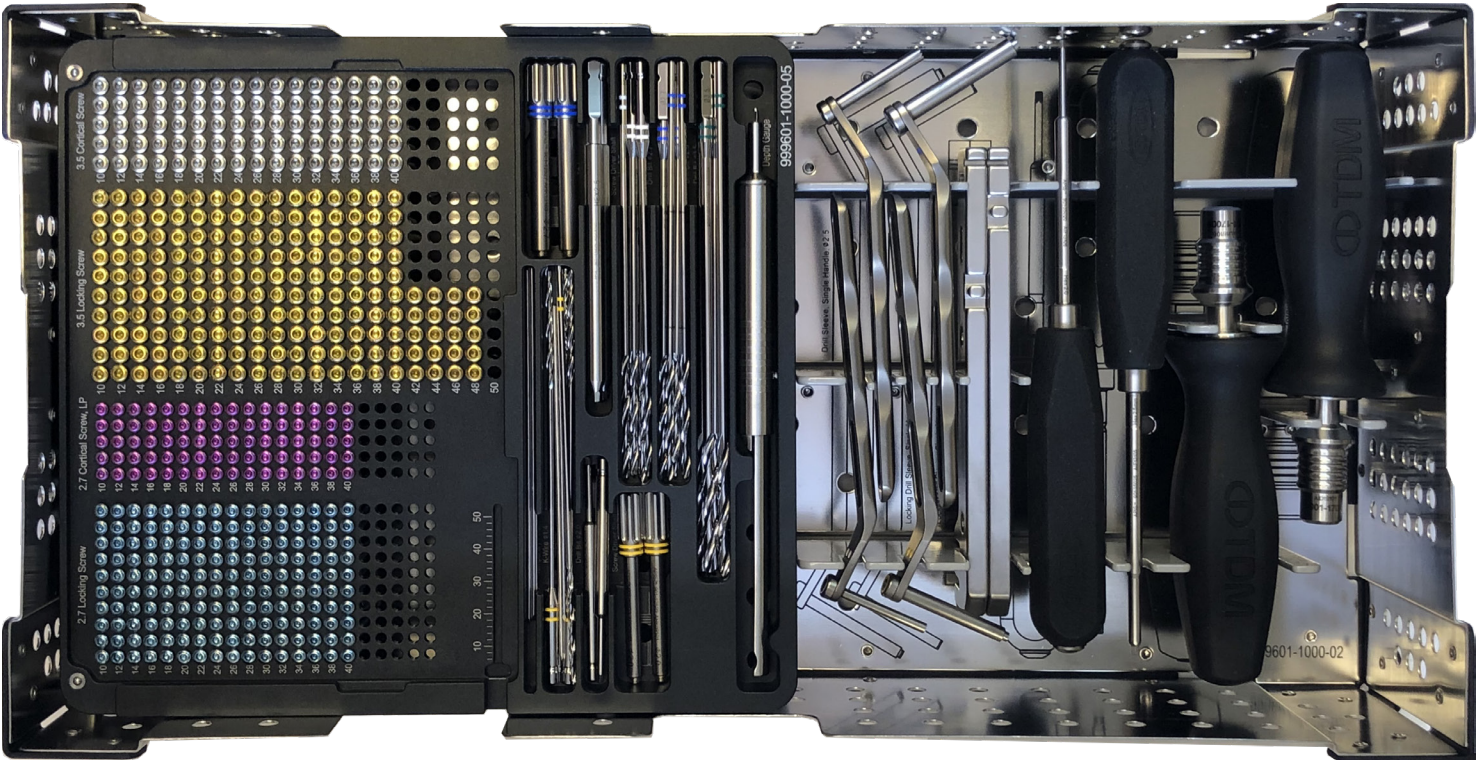


PLATE TRAY



SCREW/INSTRUMENT TRAY

ANKLE LOCKING PLATE & SCREW SYSTEM

IMPLANT ORDERING INFORMATION

FIBULAR LOCKING PLATE, LATERAL

Fibular Locking Plate, Lateral, Right, 3H	61mm	166-13203
Fibular Locking Plate, Lateral, Right, 4H	72mm	166-13204
Fibular Locking Plate, Lateral, Right, 5H	83mm	166-13205
Fibular Locking Plate, Lateral, Right, 7H	105mm	166-13207
Fibular Locking Plate, Lateral, Left, 3H	61mm	166-13103
Fibular Locking Plate, Lateral, Left, 4H	72mm	166-13104
Fibular Locking Plate, Lateral, Left, 5H	83mm	166-13105
Fibular Locking Plate, Lateral, Left, 7H	105mm	166-13107



FIBULAR LOCKING PLATE, POSTERIOR

Fibular Locking Plate, Posterior, Right, 3H	67mm	166-14203
Fibular Locking Plate, Posterior, Right, 4H	78mm	166-14204
Fibular Locking Plate, Posterior, Right, 5H	88mm	166-14205
Fibular Locking Plate, Posterior, Left, 3H	67mm	166-14103
Fibular Locking Plate, Posterior, Left, 4H	78mm	166-14104
Fibular Locking Plate, Posterior, Left, 5H	88mm	166-14105



DISTAL TIBIA LOCKING PLATE, ANTERIOR

Distal Tibia Locking Plate, Anterior, Right, 3H	55mm	160-11203
Distal Tibia Locking Plate, Anterior, Right, 4H	62mm	160-11204
Distal Tibia Locking Plate, Anterior, Right, 5H	71mm	160-11205
Distal Tibia Locking Plate, Anterior, Right, 6H	79mm	160-11206
Distal Tibia Locking Plate, Anterior, Left, 3H	55mm	160-11103
Distal Tibia Locking Plate, Anterior, Left, 4H	62mm	160-11104
Distal Tibia Locking Plate, Anterior, Left, 5H	71mm	160-11105
Distal Tibia Locking Plate, Anterior, Left, 6H	79mm	160-11106



DISTAL TIBIA LOCKING PLATE, POSTERIOR

Distal Tibia Locking Plate, Posterior, Right, 3H	60mm	161-14203
Distal Tibia Locking Plate, Posterior, Right, 4H	71mm	161-14204
Distal Tibia Locking Plate, Posterior, Right, 5H	82mm	161-14205
Distal Tibia Locking Plate, Posterior, Right, 6H	93mm	161-14206
Distal Tibia Locking Plate, Posterior, Left, 3H	60mm	161-14103
Distal Tibia Locking Plate, Posterior, Left, 4H	71mm	161-14104
Distal Tibia Locking Plate, Posterior, Left, 5H	82mm	161-14105
Distal Tibia Locking Plate, Posterior, Left, 6H	93mm	161-14106



DISTAL TIBIA LOCKING PLATE, MEDIAL

Distal Tibia Locking Plate, Medial, 3H	58mm	161-15003
Distal Tibia Locking Plate, Medial, 4H	68mm	161-15004
Distal Tibia Locking Plate, Medial, Hook, 3H	60mm	161-16003
Distal Tibia Locking Plate, Medial, Hook, 4H	70mm	161-16004



LOCKING CALCANEUS PLATE

3.5mm Locking Calcaneus Plate	50mm	144-10050
3.5mm Locking Calcaneus Plate	60mm	144-10060
3.5mm Locking Calcaneus Plate	70mm	144-10070



ANKLE LOCKING PLATE & SCREW SYSTEM

IMPLANT ORDERING INFORMATION/INSTRUMENT OVERVIEW

2.7mm LOCKING SCREW

10-40mm

227-260xx*

2.7mm CORTICAL SCREW, LOW PROFILE HEAD

10-40mm

227-270xx*

3.5mm LOCKING SCREW

10-50mm

235-260xx*

3.5mm CORTICAL SCREW, LOW PROFILE HEAD

10-40mm

213500-10xx*

(All screws in 2mm increments)

*xx = Screw length



Temporary Fixation K-wire 1.4mm 901-16014 	Plate Bender, Small Right Left 901-06036 901-06035 
Drill Bit 2.0 X 130mm (Yellow) 901-01220 2.5 X 130mm (White) 901-01125 2.7 X 130mm (Blue) 901-22127 3.5 X 160mm (Green) 901-22135 	Drill Bit, AO QC 2.0 X 130mm (Yellow) 901-31120 2.5 X 130mm (White) 901-31025 2.7 X 130mm (Blue) 901-31127 3.5 X 160mm (Green) 901-31135 
Locking Drill Sleeve 2.0mm (Yellow) 901-12520 2.7mm (Blue) 901-12527 	Locking Drill Sleeve, Single Handle 2.0mm (Yellow) 901-02220 2.7mm (Blue) 901-02227 
Drill Sleeve, Single Handle 2.5mm (White) 901-13325 3.5mm (Green) 901-13335 	Depth Gauge 2.7/3.5/4.0mm 901-04027 
Screwdriver, Self-Retaining 2.0mm Hex 901-35020 2.5mm Hex 901-35025 	Torque Limiting Handle, AO QC 0.8Nm 901-17008 1.5Nm 901-17015 
Screwdriver Shaft, Self-Retaining, AO QC 2.0mm Hex 901-15420 2.5mm Hex 901-15425 	Forceps 901-08001 
Drill Guide Block, Distal Tibia Plate Anterior Right: 901-22269 Left: 901-22268 Posterior Right: 901-23269 Left: 901-23268 *See plate image on previous page	Drill Guide Block, Fibular Plate Lateral Right: 901-20269 Left: 901-20268 Posterior Right: 901-21269 Left: 901-21268 *See plate image on previous page