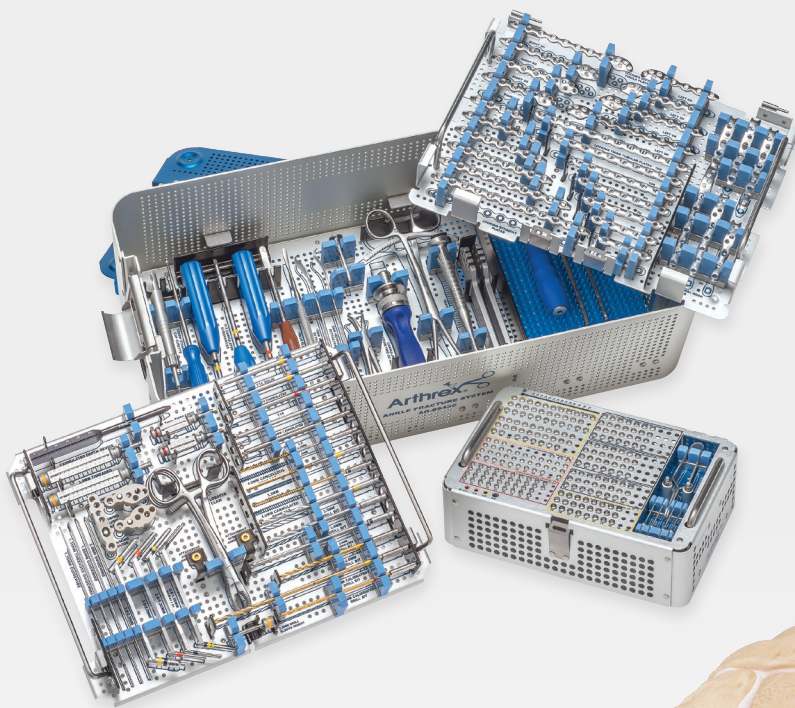


Ankle Fracture Management System

Surgical Technique



Arthrex® 

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Ankle Fracture Management System

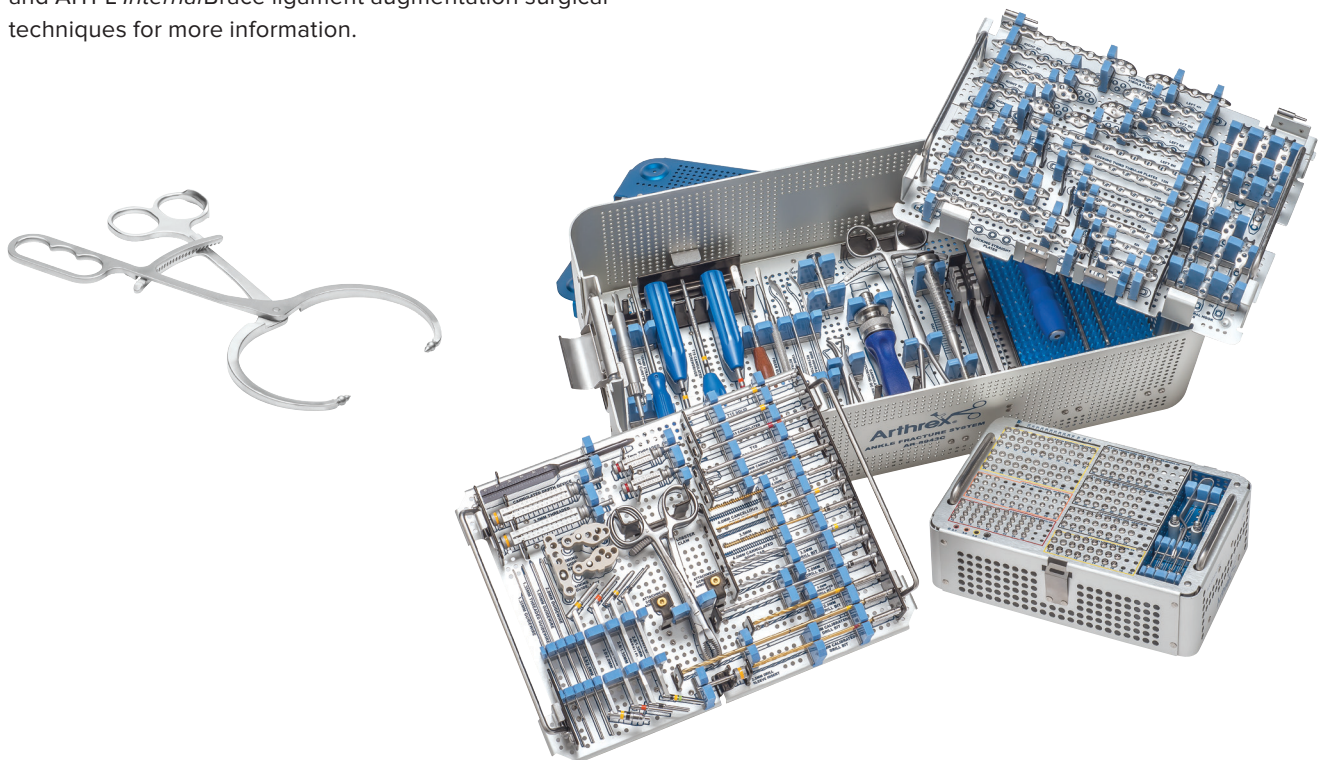
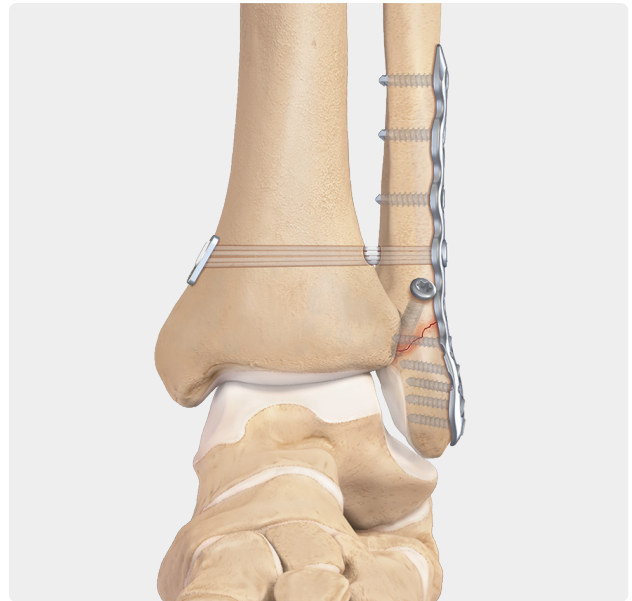
Introduction

Ankle fractures are frequently complicated by variables out of the surgeon's control. The amount of comminution, degree of osteoporosis, location of the fracture, and size of the patient can all lead to challenging obstacles. Designed to be the most comprehensive set available for the treatment of these common injuries, the Ankle Fracture Management System incorporates optimized small fragment implants, fracture-specific anatomically contoured plates, and 4.0 mm cannulated screws into a single system.

Plate options include:

- › Locking medial hook plates, locking lateral hook plates, and locking distal fibula plates
- › 3.5 mm locking one-third tubular plates
- › 3.5 mm locking straight plates (reconstruction plates)

All plates except for the medial hook plate have specific features to facilitate the use of the clinically proven Syndesmosis TightRope® implant for stabilization of associated syndesmotic injuries. Additionally, the locking distal fibula plates have suture eyelets for use with the AITFL *Internal/Brace*™ ligament augmentation procedure as an adjunct to the Syndesmosis TightRope implant. See the Syndesmosis TightRope® XP implant system and AITFL *Internal/Brace* ligament augmentation surgical techniques for more information.

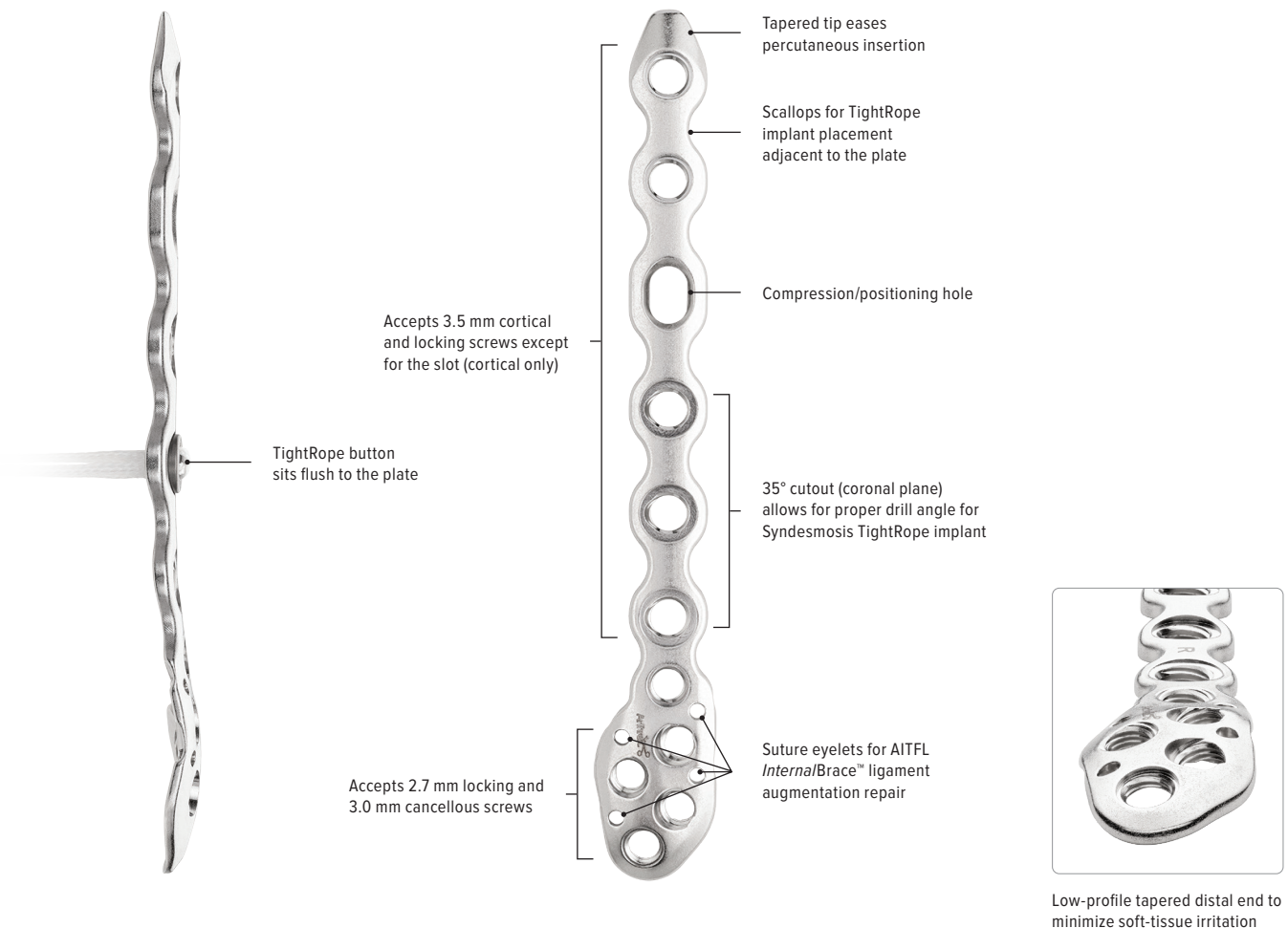


The *Internal/Brace* surgical technique is intended only to augment the primary repair/reconstruction by expanding the area of tissue approximation during the healing period and is not intended as a replacement for the native ligament. The *Internal/Brace* technique is for use during soft tissue-to-bone fixation procedures and is not cleared for bone-to-bone fixation.

Locking Distal Fibula Plates

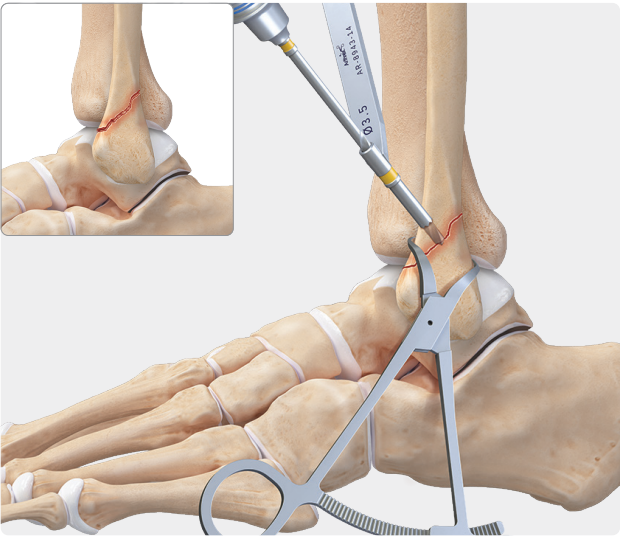
Locking Distal Fibular Plates are designed for use in the most challenging lateral malleolus fractures. The distal portion or head of the plate thins and spreads to encompass a large portion of the lateral malleolus. The head accepts multiple 2.7 mm locking screws or 3 mm cancellous screws, making this plate ideal for patients with highly comminuted or distal lateral malleolus fractures.

Inclined, divergent fixed-angle locking screw holes distally allow for secure fixation. The shaft portion of the plate thickens to improve rigidity and strength, and the screw holes allow for multiple screw options. As with all of the fibular plates, there are recessed screw holes and a scalloped perimeter, allowing for easier contouring and placement of the Syndesmosis TightRope® implant through or outside the plate.



Offered in **4, 5, 6,** and **8** holes and sterile in **10, 12,** and **14** holes

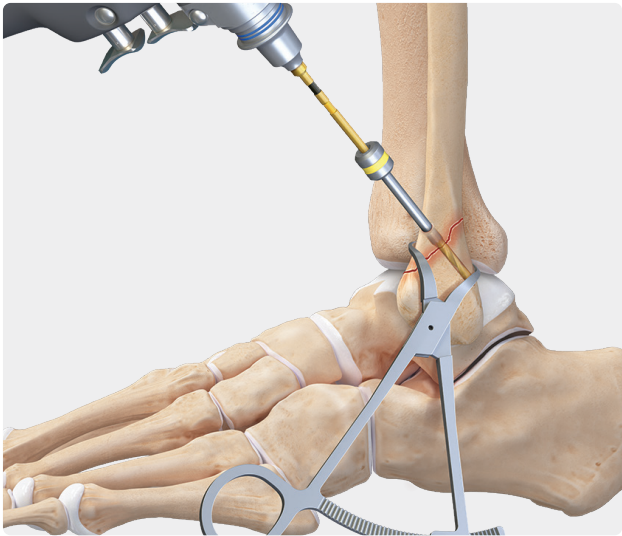
Locking Distal Fibula Plates Surgical Technique



1

Reduce the fracture with the provided **pointed bone reduction forceps** or **lobster claw forceps**. Drill the near fragment with the **3.5 mm drill bit** and **3.5 mm/2.5 mm drill guide**.

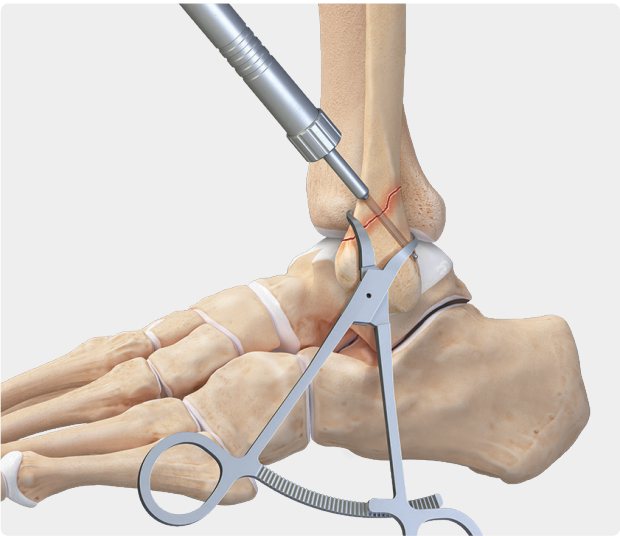
Bone Reduction Forceps, curved, pointed	AR-8943-07
Lobster Claw	AR-8943-23
Drill Bit, 3.5 mm	AR-4160-35
Drill Guide, 3.5 mm/2.5 mm	AR-8943-14



2

Insert the **drill sleeve** through the drilled hole and drill through the far fragment with the **2.5 mm drill bit**.

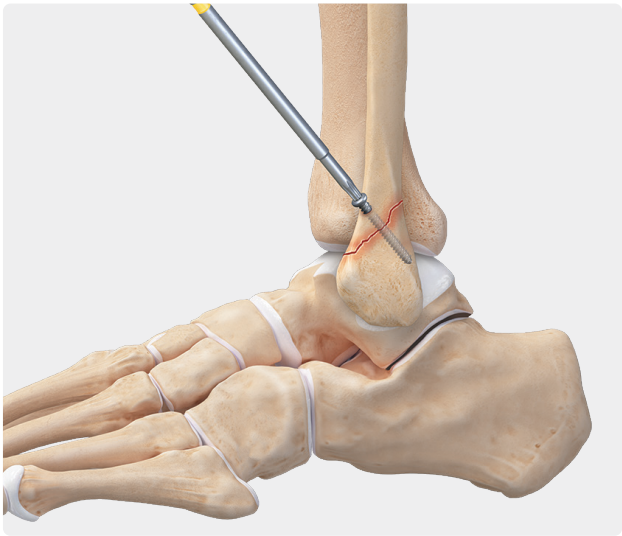
Drill Sleeve Insert, 2.5 mm	AR-8943-27
Drill Bit, 2.5 mm	AR-8943-30



3

Measure the screw length with **the low-profile depth device**.

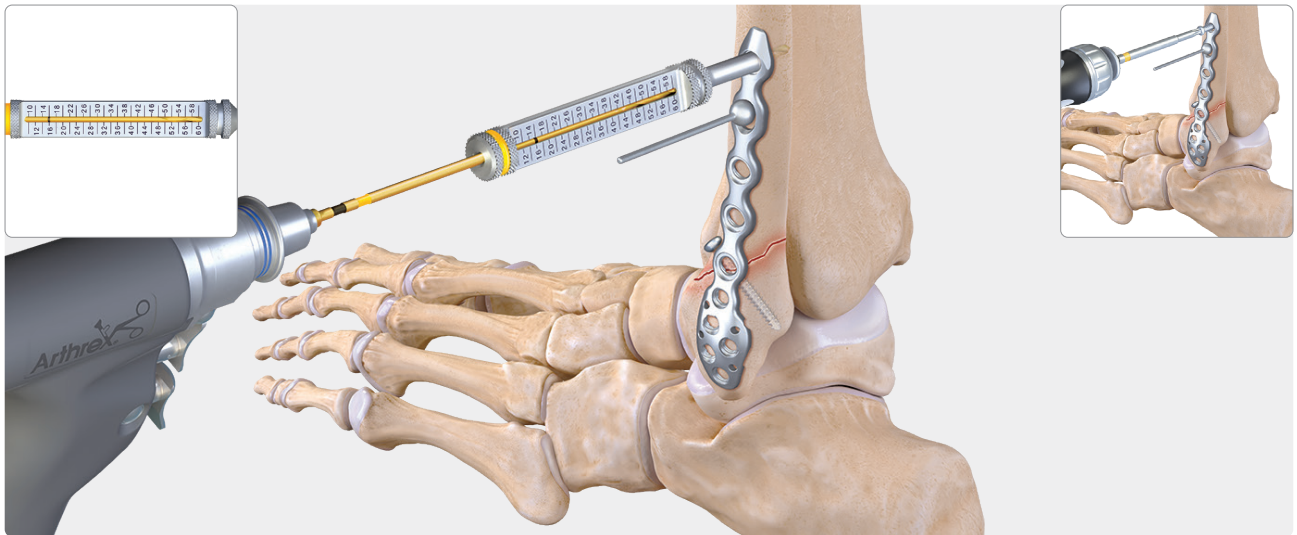
Depth Device, low profile, 2.7 mm/3.5 mm/4.0 mm	AR-8943-15
---	------------



4

Insert the desired length 3.5 mm cortical screw with the **T15 screwdriver** or **driver**.

Handle, ratcheting, QC, cannulated	AR-8950RH
Screwdriver, T15 hexalobe	AR-8943-10
Hexalobe Driver, T15	AR-8941DH



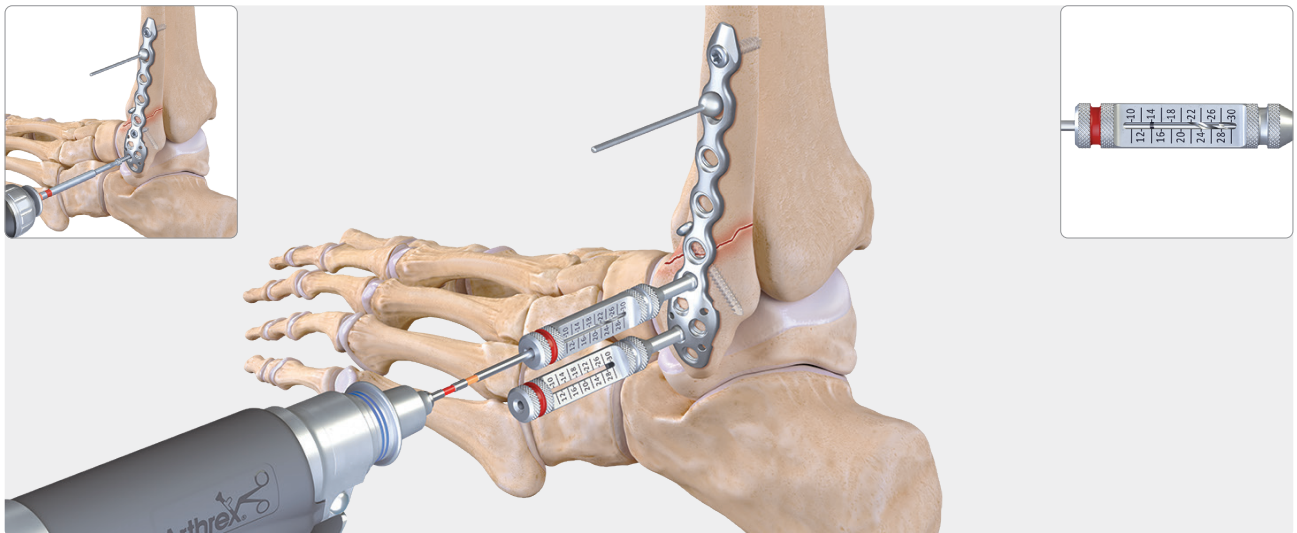
5

Choose the implant with the appropriate size and laterality. Pin the plate to the bone with a **smooth or threaded BB-Tak**.

The 3.5 mm cortical or locking screws can be prepared proximally with the **3.5 mm locking drill guide** and the **2.5 mm calibrated drill bit**. Lengths can be read off the guide or with a depth gauge. Use a **T15 driver or screwdriver** for insertion.

Conversely, for 3.5 mm cortical screws, a 2.5 mm drill bit and drill guide can be used as shown in Step 7.

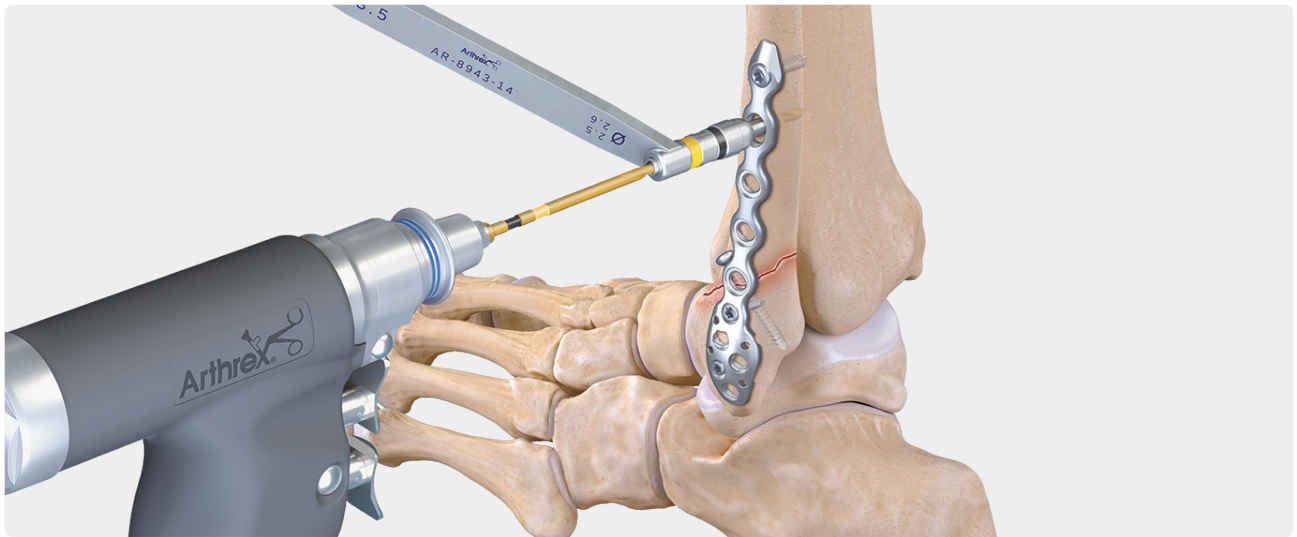
BB-Tak, threaded	AR-13226T
BB-Tak, smooth	AR-13226
Drill Bit, calibrated, 2.5 mm	AR-8943-42
Drill Guide, locking, 3.5 mm	AR-8943-43
Depth Device, low profile, 2.7 mm/3.5 mm/4.0 mm	AR-8943-15



6

For the distal 2.7 mm locking screws, drill with the **2.0 mm calibrated drill bit** through the **2.7 mm threaded drill guide**. Lengths can be read off the guide or with a depth gauge. Use a **T10 driver or screwdriver** for insertion.

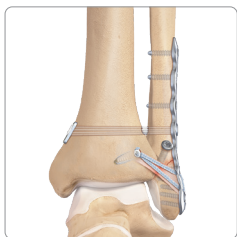
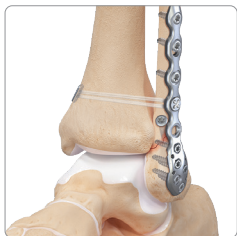
Drill Bit, calibrated, 2.0 mm	AR-8943-16
Drill Guide, threaded, 2.7 mm	AR-8943-17
Depth Device, 2.7 mm/3.5 mm/4.0 mm	AR-8943-15
Screwdriver, T10 hexalobe	AR-8943-08
Drive Shaft, T10 hexalobe, QC	AR-8944DH
Handle, quick coupling ratcheting, cannulated	AR-8950RH



7

Remove the BB-Tak and replace with a 3.5 mm cortical screw. Drill with the **2.5 mm drill bit** through the **3.5/2.5 mm drill guide**. Measure with the **2.7/3.5/4.0 mm depth device**. Use a **T15 driver** or **screwdriver** for insertion. This technique can also be used for any proximal 3.5 mm cortical screws. Add additional screws proximally and distally as needed.

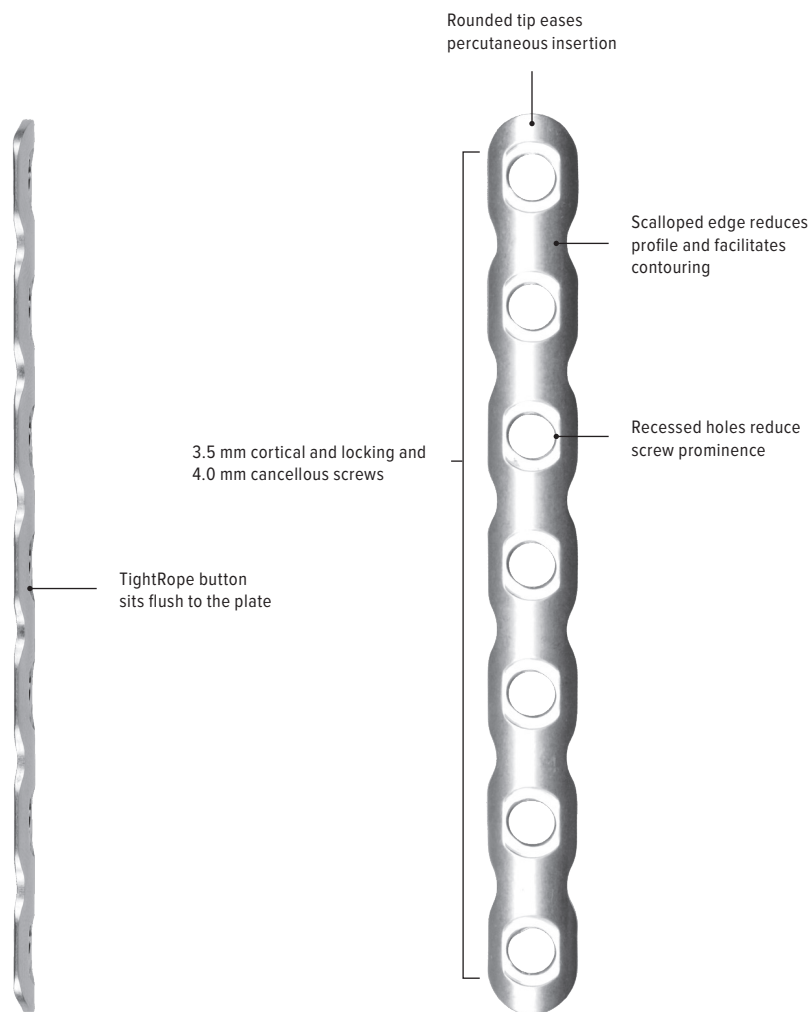
Drill Bit, 2.5 mm	AR-8943-30
Drill Guide, 3.5 mm/2.5 mm	AR-8943-14
Depth Device, low profile, 2.7 mm/3.5 mm/4.0 mm	AR-8943-15



Evaluate the syndesmosis. If fixation is required, use the Syndesmosis TightRope® XP implant as shown in LT1-00082-EN. The lateral button is designed to fit within the 3.5 mm holes of the plate. For severe AITFL instability, the AITFL *Internal*/Brace procedure can provide additional points of tissue approximation.

Locking Third Tubular Plates

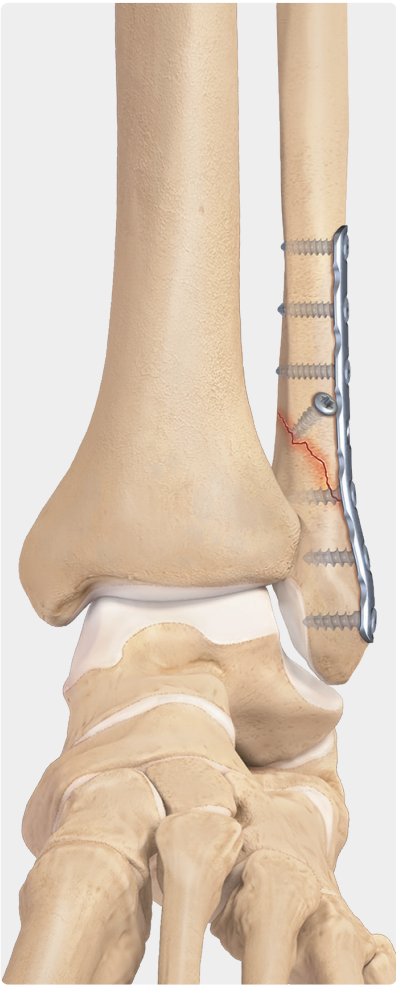
The low-profile, scalloped design allows for easier contouring and placement of the TightRope® implant outside of the plate. All screw holes accept 3.5 mm nonlocking cortical, 3.5 mm locking, or 4 mm cancellous screws. Recessed screw holes decrease screw head prominence and are designed to allow the TightRope implant's circular button to fit snug.



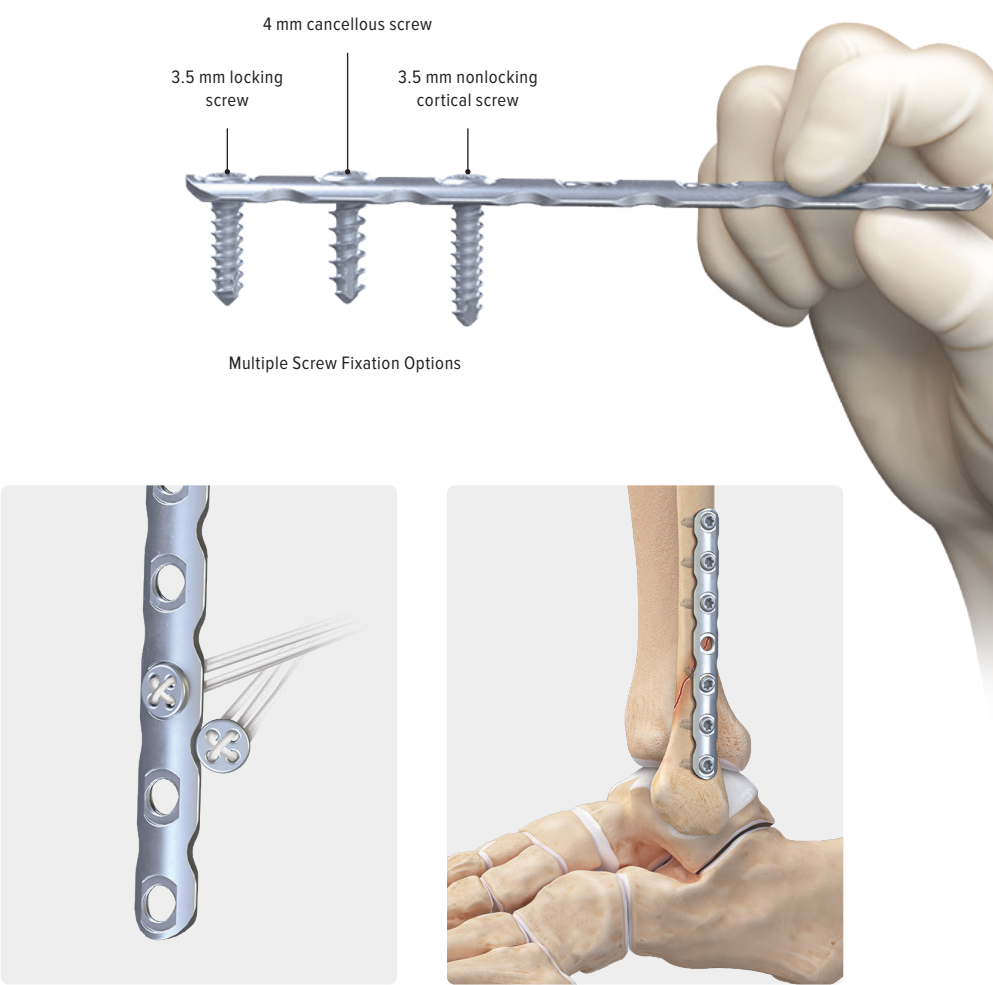
All holes accommodate the Syndesmosis TightRope implant

Offered in **4, 5, 6, 7, 8, 10, and 12** holes

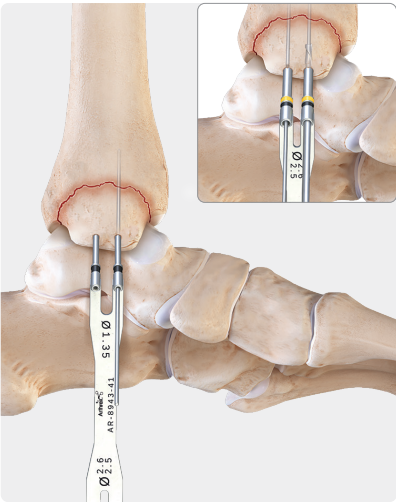
Locking Third Tubular Plates Surgical Technique



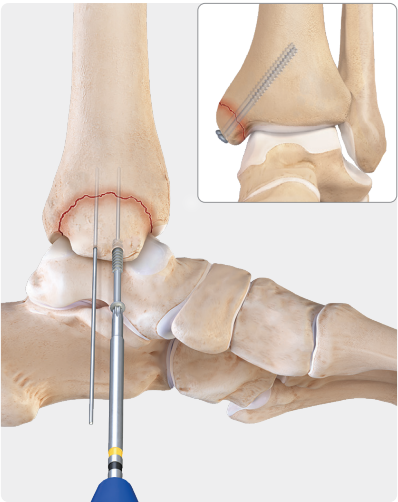
TightRope® fixation
a) through the plate; b) posterior placement



4.0 mm Cannulated, Partially Threaded, Cancellous Screws



1



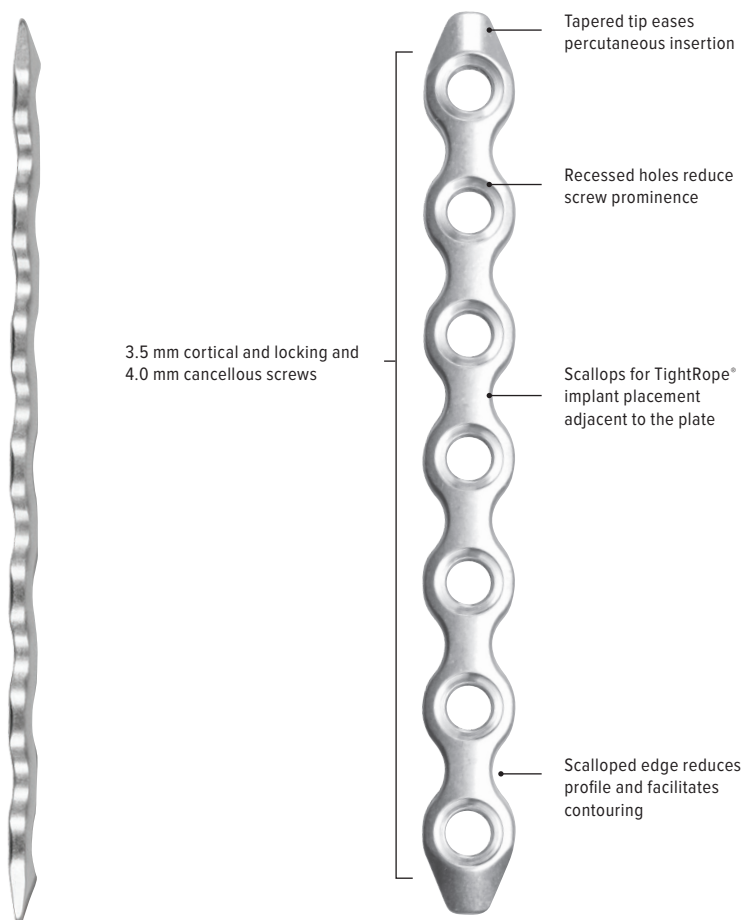
2

Use the parallel drill guide to accurately place two 1.35 mm guidewires and then use the opposite end of the guide to predrill pilot holes using the 2.6 mm cannulated drill bit. Both short and long threaded cancellous screws are available.

Note: It is recommended that medial malleolus fixation is performed prior to TightRope placement to avoid cutting the FiberWire® suture with the drill or screws.

Locking Straight Plates

The Locking Straight Plates were designed for long bone applications like the fibula. The plates are made of cold-worked stainless steel unlike traditional reconstruction plates which are made of annealed stainless steel. Cold-worked stainless steel is stronger than annealed stainless steel.¹ The scalloped design still allows for contouring when needed. All screws holes are recessed and accept 3.5 mm cortical, 3.5 mm locking, and 4.0 mm cancellous screws.



All holes are designed for the Syndesmosis TightRope implants

Offered in **4, 6, 7, 8, 10, and 12** holes

Reference

1. Talha M, Behera CK, Sinha OP. Effect of nitrogen and cold working on structural and mechanical behavior of Ni-free nitrogen containing austenitic stainless steels for biomedical applications. *Mater Sci Eng C Mater Biol Appl*. 2015;47:196-203. doi:10.1016/j.msec.2014.10.078

Locking Straight Plates Surgical Technique

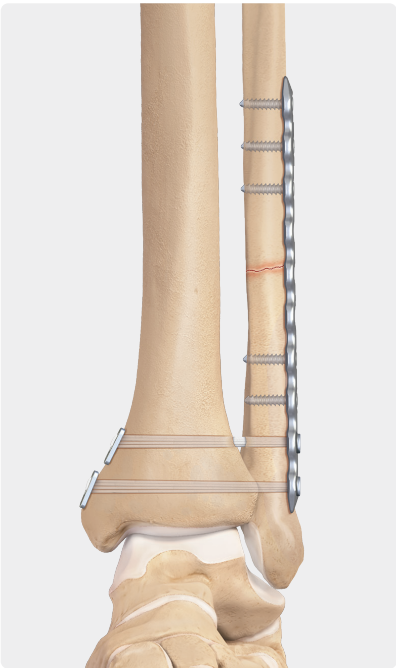


3.5 mm Cortical Screws and 4.0 mm Cancellous Screws

Drill Bit, 2.5 mm	AR-8943-30
Drill Guide, 3.5 mm/2.5 mm	AR-8943-14
Depth Device, low profile, 2.7 mm/3.5 mm/4.0 mm	AR-8943-15
Screwdriver, T15 hexalobe	AR-8943-10
Hexalobe Driver, T15	AR-8941DH

3.5 mm Locking Screws

Drill Bit, calibrated, 2.5 mm	AR-8943-42
Drill Guide, locking, 3.5 mm	AR-8943-43
Depth Device, low profile, 2.7 mm/3.5 mm/4.0 mm	AR-8943-15
Screwdriver, T15 hexalobe	AR-8943-10
Hexalobe Driver, T15	AR-8941DH

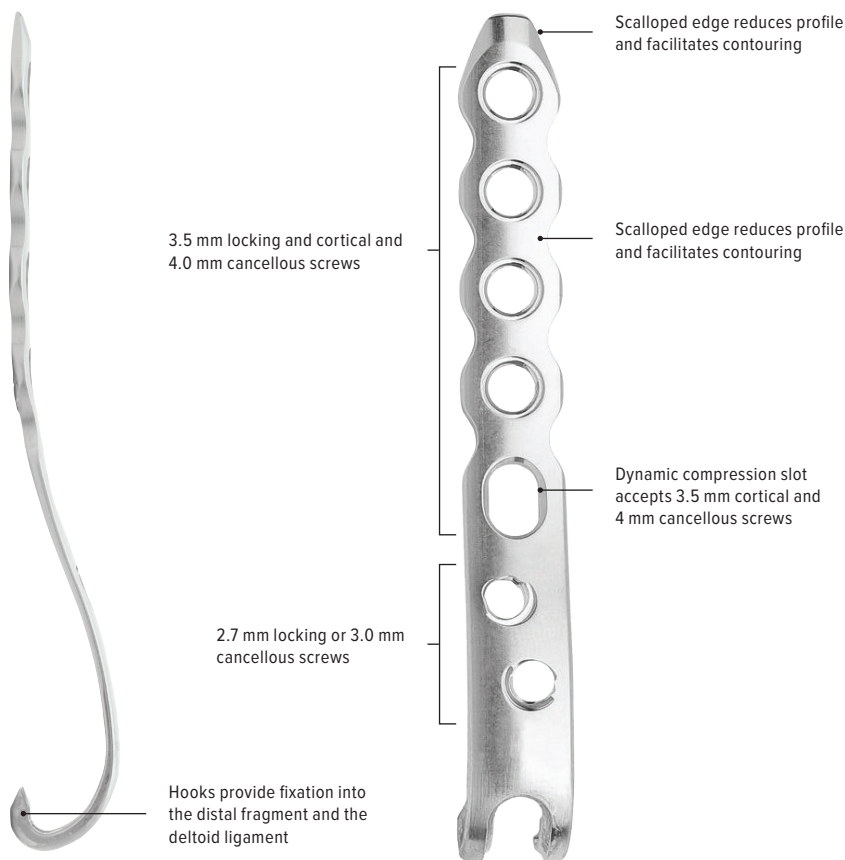


Note: If two TightRope® implants are used, slightly divergent angles are recommended.

Locking Medial Hook Plates

The Locking Medial Hook Plate is designed to treat very distal or comminuted medial malleolus fractures. The two-hooked, distal prongs are designed to grab the deltoid ligament to reduce the medial malleolus (akin to using the rotator cuff to reduce the greater tuberosity in the shoulder).

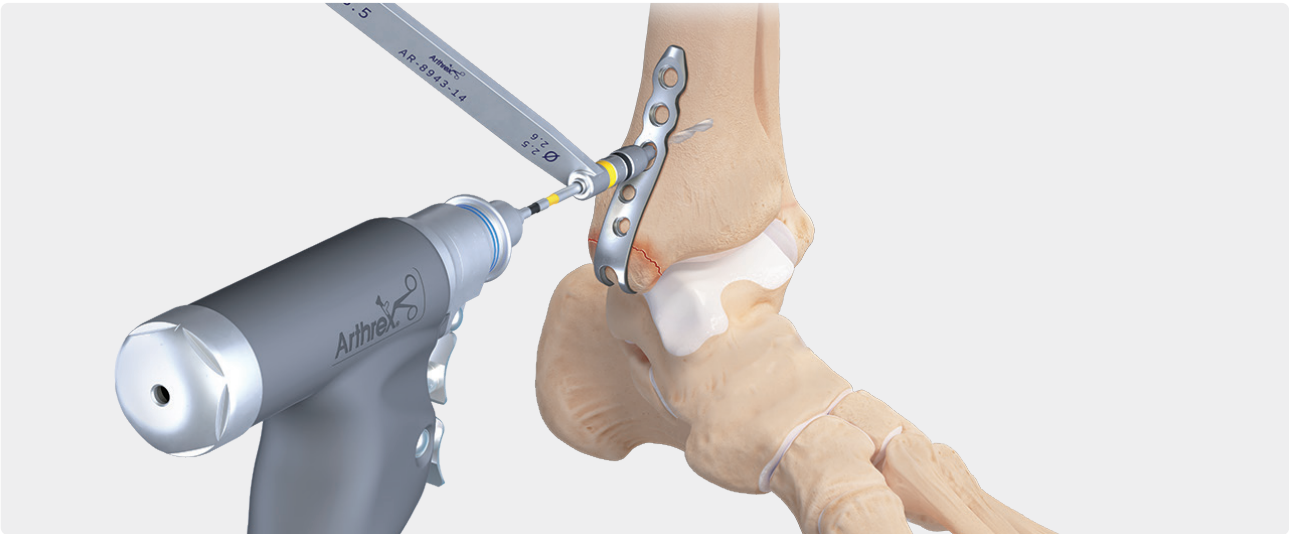
The prongs are spaced and recessed appropriately to fit a 4.0 mm cancellous screw if desired. The proximal screw holes allow for the placement of 3.5 mm nonlocking cortical screws, 3.5 mm locking screws, or 4.0 mm cancellous screws proximally and 2.7 mm locking or 3.0 mm cancellous screws distally.



4.0 mm cancellous screws can be placed through the hooks

Offered in **3**, **5**, and **7** holes

Locking Medial Hook Plates Surgical Technique – Option 1



1

Insert hooks into the deltoid ligament near the attachment on the medial malleolus. Drill at the superior aspect of the compression slot with the **2.5 mm drill bit** through the **3.5 mm/2.5 mm drill guide**. Measure with the depth gauge and implant a 3.5 mm cortical screw with a T15 driver. As the screw contacts the plate, it will pull the plate superiorly to compress distal fractures.

Optional: The hook plate tamp can be used to impact the distal portion if desired.

Drill Bit, 2.5 mm	AR-8943-30
Drill Guide, 3.5 mm/2.5 mm	AR-8943-14
Depth Device, low profile, 2.7 mm/3.5 mm/4.0 mm	AR-8943-15
Screwdriver, T15 hexalobe	AR-8943-10
Hexalobe Driver, T15	AR-8941DH
Tamp for Hook Plate	AR-8943-28

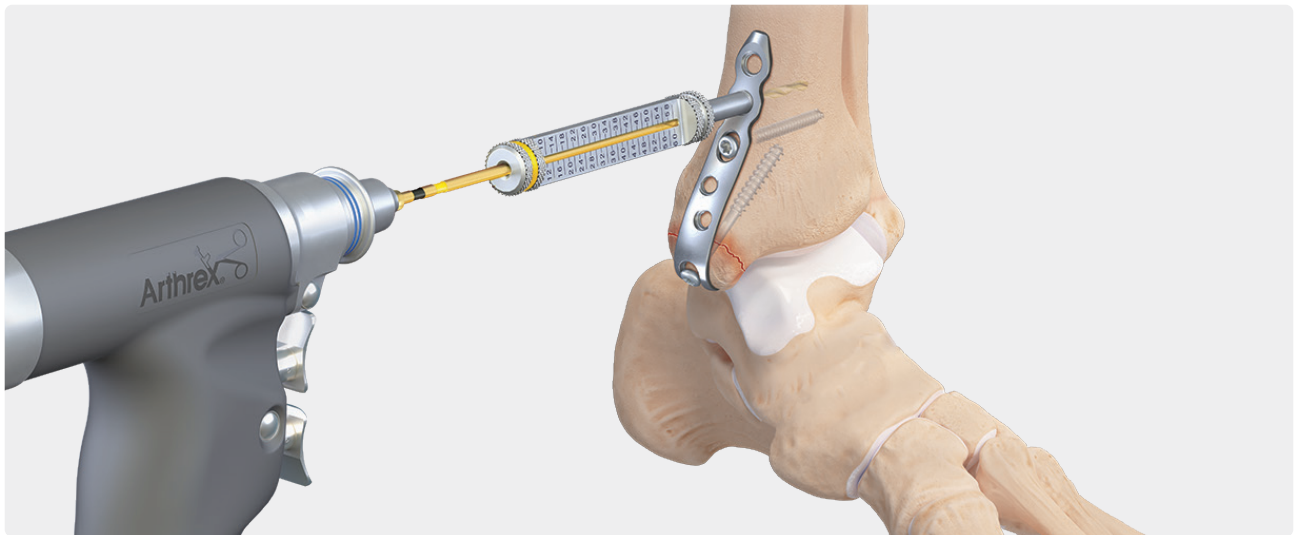


2

A partially threaded 4.0 mm cannulated or solid screw can be implanted through the distal hooks.

4.0 mm Cannulated Screw - Place a **1.35 mm guide wire** (smooth or threaded) through the **2.6 mm/1.35 mm drill guide**. Flip the guide and then predrill with the **2.6 mm cannulated drill bit**. Measure length with the **cannulated depth device**. Implant with a **cannulated T15 driver**.

Drill Bit, cannulated, 2.6 mm	AR-8943-02
Drill Guide, 2.6 mm/1.35 mm	AR-8943-03
Depth Device, cannulated	AR-8943-04
Screwdriver, T15 hexalobe, cannulated	AR-8943-09
Drive Shaft, QC, T15 hexalobe, cannulated	AR-8943-12



3

The 3.5 mm locking screws are implanted using the yellow **3.5 mm locking drill guide** and the **calibrated 2.5 mm drill bit**.

Drill Bit, calibrated, 2.5 mm	AR-8943-42
Drill Guide, locking, 3.5 mm	AR-8943-43
Depth Device, low profile, 2.7 mm/3.5 mm/4.0 mm	AR-8943-15
Screwdriver, T15 hexalobe	AR-8943-10
Hexalobe Driver, T15	AR-8941DH



4

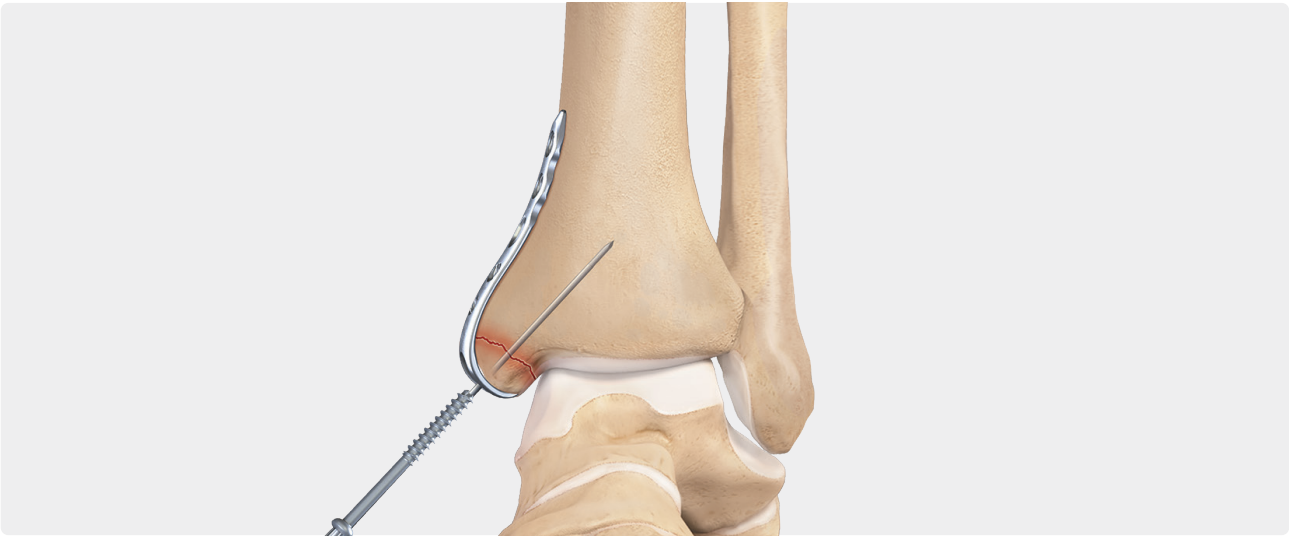
The 2.7 mm fragment-specific locking screws can be implanted using the **red 2.7 mm locking drill guide** and **2.0 mm calibrated drill bit**.

Note: Impaction of the tines into bone is NOT mandatory and is not required to achieve adequate stability of the distal fragment. It is acceptable to leave the hooks slightly proud.

Drill Bit, calibrated, 2.0 mm	AR-8943-16
Drill Guide, threaded, low profile, 2.7 mm	AR-8943-17
Depth Device, low profile, 2.7 mm/3.5 mm/4.0 mm	AR-8943-15
Screwdriver, T10 hexalobe	AR-8943-08
Drive Shaft, QC, T10 hexalobe	AR-8944DH

See option 2 for this technique on the following page.

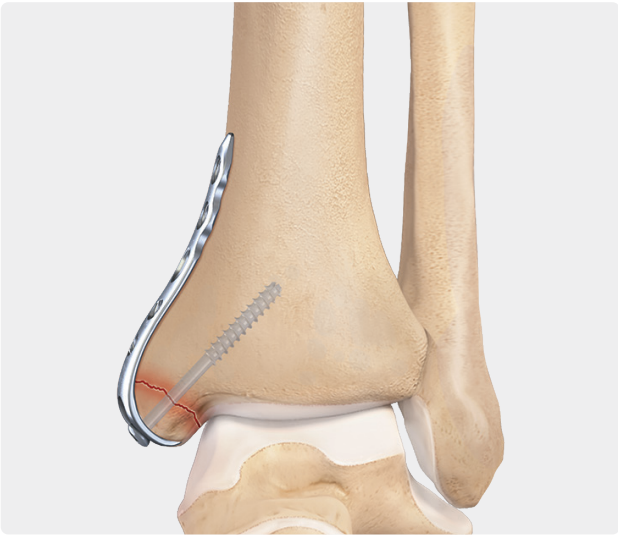
Locking Medial Hook Plates Surgical Technique – Option 2



1

Position the plate on the medial malleolus. The **1.35 mm guidewire** for the cannulated screw can often stabilize the fracture provisionally. Drill with the **2.6 mm cannulated drill** bit through the **2.6/1.35 mm drill guide** and measure with the cannulated depth gauge.

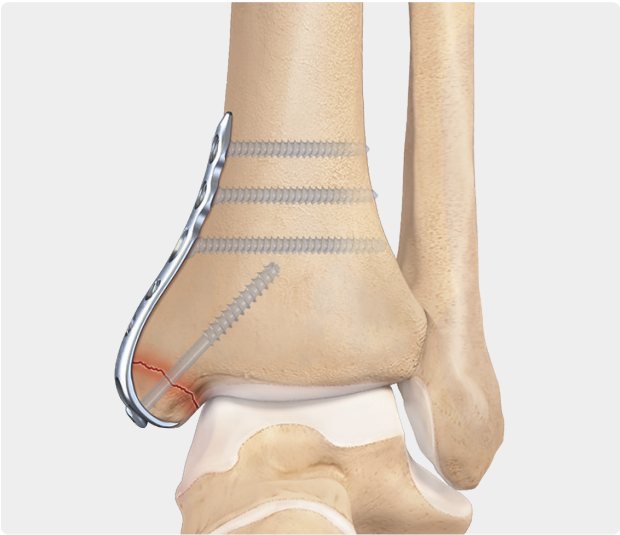
Tamp for Hook Plate	AR-8943-28
Guidewire w/ Trocar Tip, threaded, 1.35 mm	AR-8943-38
Guidewire w/ Trocar Tip, 1.35 mm	AR-8943-01
Drill Bit, cannulated, 2.6 mm	AR-8943-02
Drill Guide, 2.6 mm/1.35 mm	AR-8943-03
Depth Device, cannulated	AR-8943-04



2

Insert the 4.0 mm partially threaded, cannulated screw with a cannulated T15 driver prior to placement of any proximal screws, compressing the hooks until rotational stability is achieved.

Driver, T15 hexalobe, cannulated	AR-8943-09
Drive Shaft, QC, T15 hexalobe, cannulated	AR-8943-12



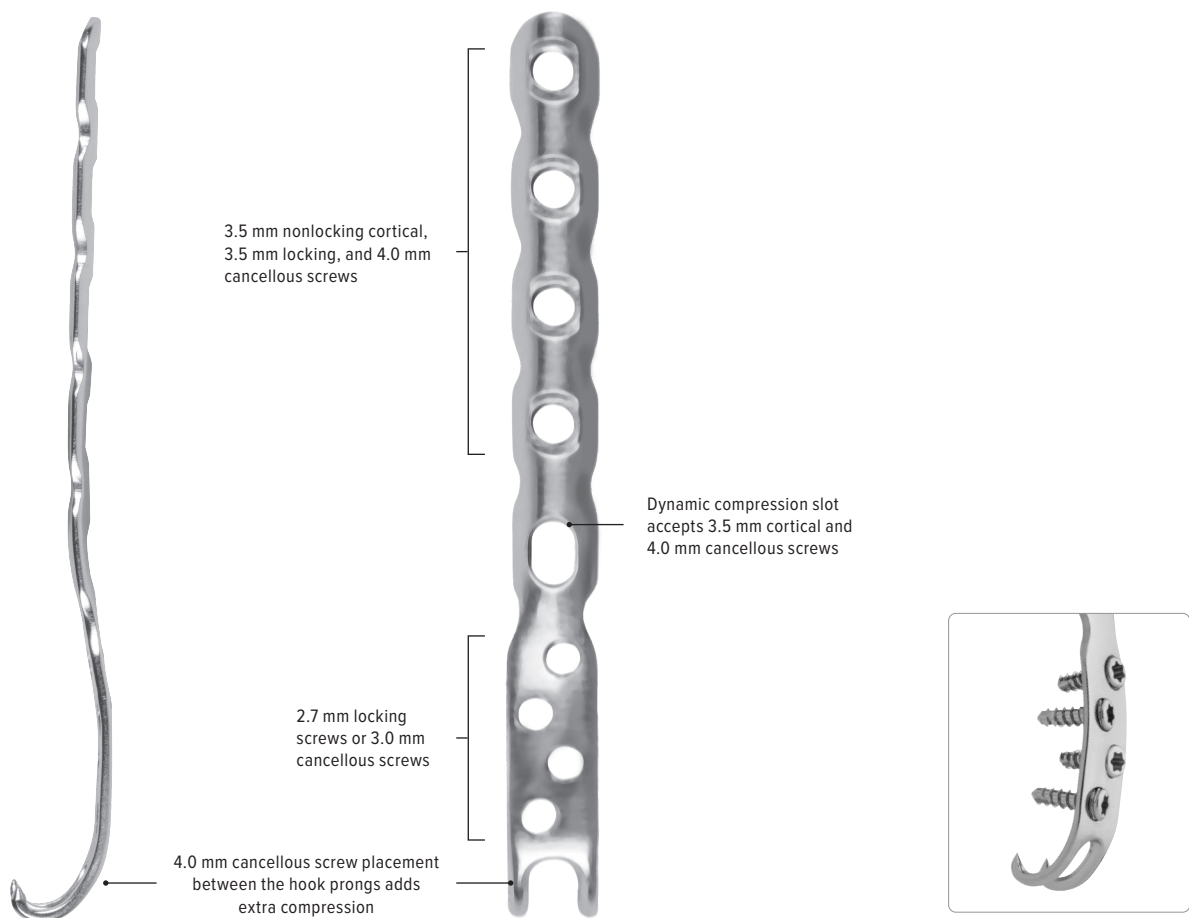
3

Complete repair using 3.5 mm locking, 3.5 mm cortical, or 4.0 mm cancellous screws to secure the proximal portion of the plate.

Locking Lateral Hook Plates

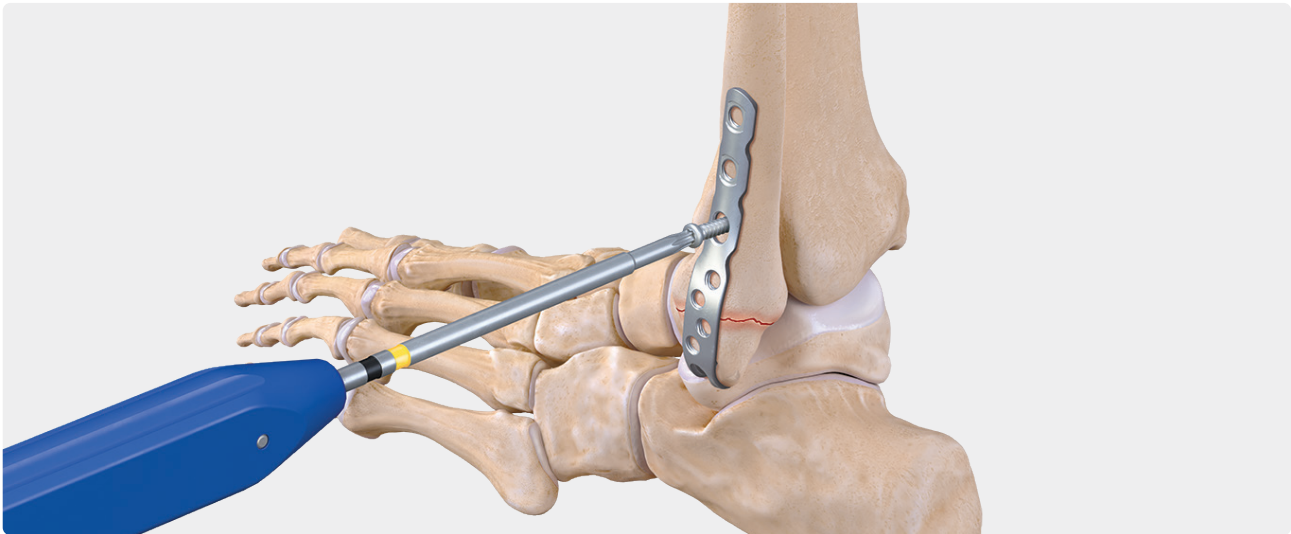
The Locking Lateral Hook plate is designed to treat fibular fractures with fibula fractures with distal extension. The plate is anatomically designed to fit the lateral aspect of the fibula, with 2.7 mm locking screw holes in the distal portion (3.0 mm nonlocking cancellous screws are also available).

The two-hooked, distal prongs are designed to incorporate the calcaneal fibular ligament attachment (akin to using the rotator cuff in assisting greater tuberosity fixation in the shoulder). These prongs are spaced and recessed appropriately to allow placement of a 4.0 mm cancellous screw if desired.



Offered in **3**, **5**, and **7** holes

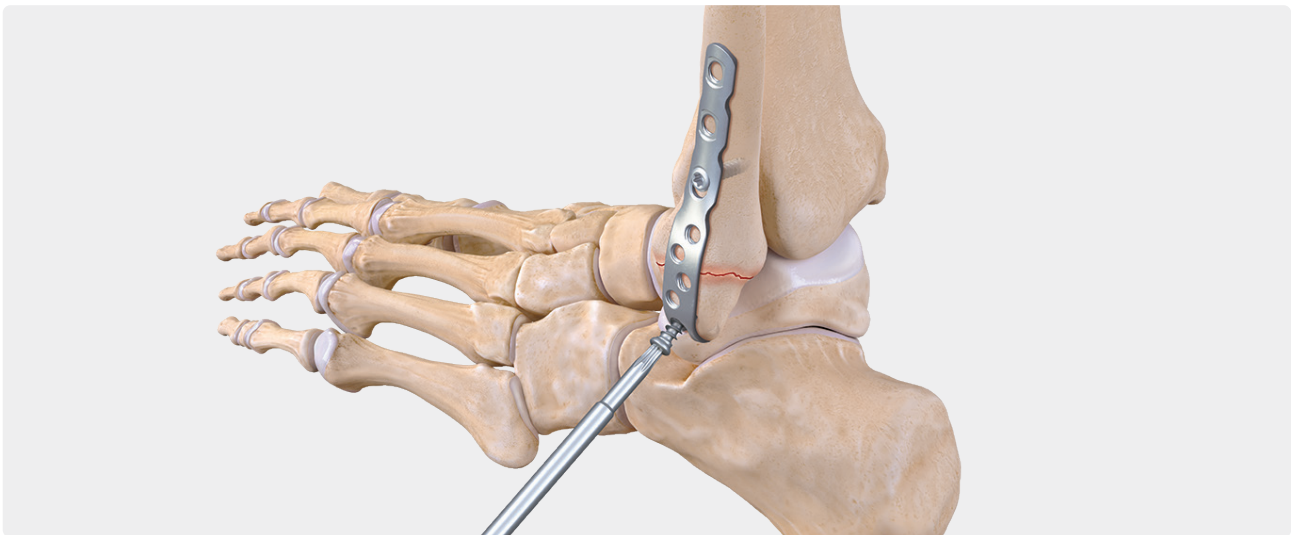
Locking Lateral Hook Plates Surgical Technique



1

Insert hooks into the calcaneal fibular ligament near the attachment onto the lateral malleolus. Drill with the **2.5 mm drill bit** through the **3.5 mm/2.5 mm drill guide** to prepare for a 3.5 mm cortical or 4.0 mm cancellous screw in the superior aspect of the oblong hole to compress the fracture.

Drill Bit, 2.5 mm	AR-8943-30
Drill Guide 3.5 mm/2.5 mm	AR-8943-14
Depth Device, low profile, 2.7 mm/3.5 mm/4.0 mm	AR-8943-15
Screwdriver, T15 hexalobe	AR-8943-10
Hexalobe Driver, T15	AR-8941DH

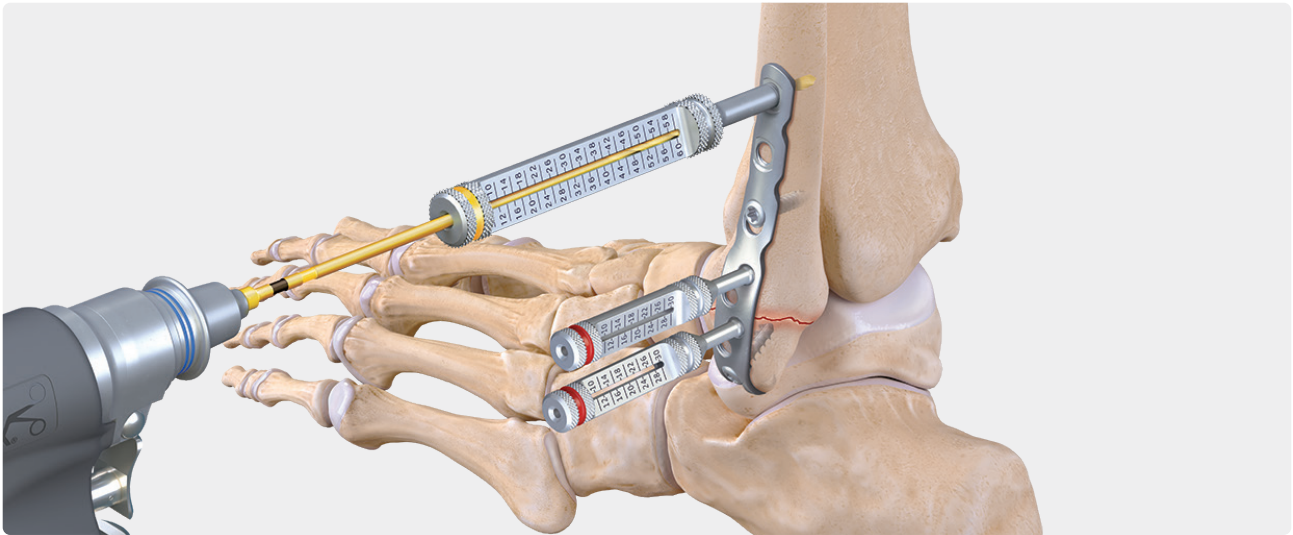


2

Place a 4.0 mm cancellous screw through the distal hooks to seat the plate (this screw does not need to cross the fracture site), using the 2.5 mm drill bit for the pilot hole. If desired, use a bone tamp to impact the tines prior to screw placement.

Note: Impaction of the tines into bone is not mandatory and is NOT required to achieve adequate stability of the distal fragment.

Tamp for Hook Plate	AR-8943-28
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3

The plate can fit 3.5 mm cortical and locking and 4.0 mm screws proximally. 2.7 mm locking screws can be placed distally for rotational stability.

3.5 mm Cortical and Cancellous Screws		2.7 mm Locking Screws	
Drill Bit, 2.5 mm	AR-8943-30	Drill Bit, calibrated, 2.0 mm	AR-8943-16
Drill Guide, 3.5 mm/2.5 mm	AR-8943-14	Drill Guide, threaded, low profile, 2.7 mm	AR-8943-17
Depth Device, low profile, 2.7 mm/3.5 mm/4.0 mm	AR-8943-15	Depth Device, low profile, 2.7 mm/3.5 mm/4.0 mm	AR-8943-15
Screwdriver, T15 hexalobe	AR-8943-10	Screwdriver, T10 hexalobe	AR-8943-08
Hexalobe Driver, T15	AR-8941DH	Drive Shaft, QC, T10 hexalobe	AR-8944DH

3.5 mm Locking Screws	
Drill Bit, calibrated, 2.5 mm	AR-8943-42
Drill Guide, locking, 3.5 mm	AR-8943-43
Depth Device, low profile, 2.7 mm/3.5 mm/4.0 mm	AR-8943-15
Screwdriver, T15 hexalobe	AR-8943-10
Hexalobe Driver, T15	AR-8941DH

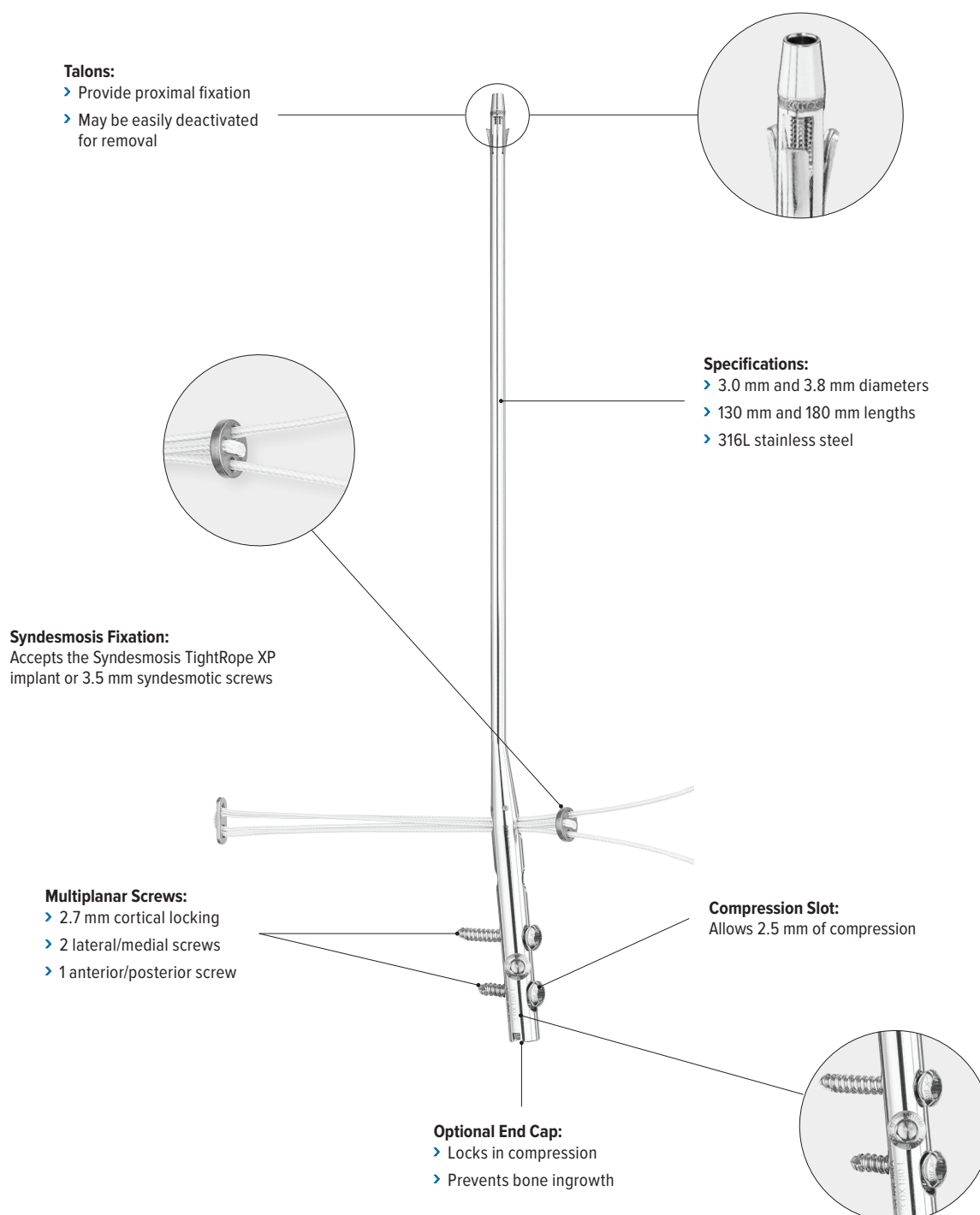


FibuLock® Fibular Nail

The FibuLock fibular nail system uses a soft-tissue friendly, minimally invasive approach to restore appropriate length, alignment, and rotation and achieve a stable ankle mortise. It provides both proximal and distal fixation along with syndesmotic fixation with our TightRope® implant technology.

The outrigger targeting guide can compress the fracture if needed and ensures syndesmosis fixation is anatomically positioned with either the TightRope implant system or 3.5 mm screws angled posterior to anterior.

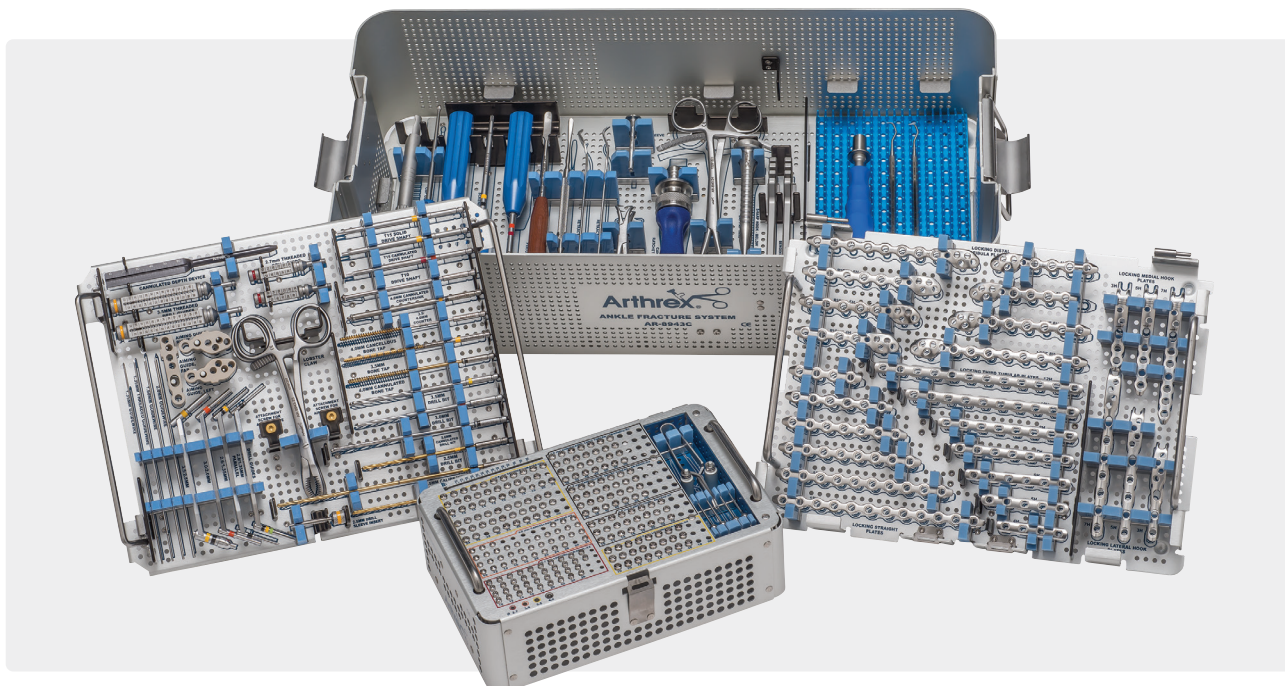
The instruments can drop into the Ankle Fracture Management System to provide both plating and nailing options in one tray.



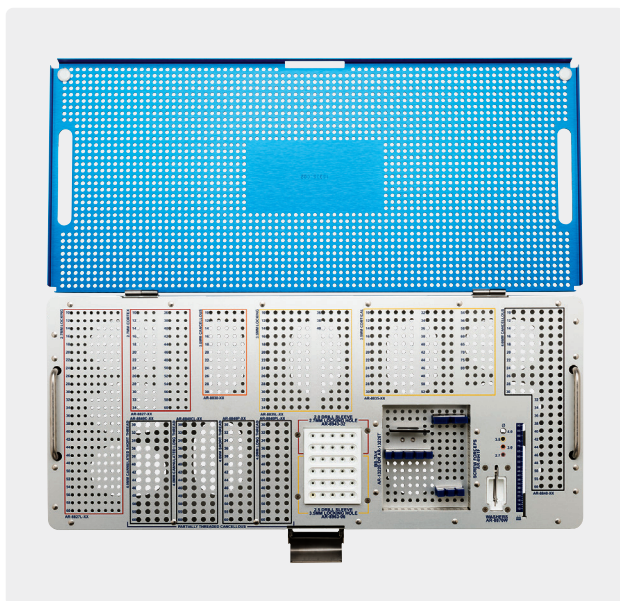
Ankle Fracture/Distal Tibia Screw Case

The Ankle Fracture Management System was designed to give surgeons the ability to fix the majority of ankle fractures, while opening only one set. As described earlier, the set contains five different locking/nonlocking plates and a wide variety of screws that should easily accommodate the most common ankle fracture cases.

The Ankle Fracture/Distal Tibia Screw Case is an auxiliary container that complements the Ankle Fracture Management System to fulfill the needs of the surgeon when treating more complex cases. The AR-8943C-31 case houses both solid and cannulated screws as well as cortical, cancellous, and locking screws in a wider range of sizes than found in the main set (AR-8943S, pictured below).



Ankle Fracture Management System, AR-8943S



Ankle Fracture Screw Case, AR-8943C-31

The AR-8943C-31 houses the following screws:

- › 2.7 mm Locking
 - › 2.7 mm Cortical
 - › 3.0 mm Cancellous
 - › 3.5 mm Locking
 - › 3.5 mm Cortical
 - › 4.0 mm Cancellous
 - › 4.0 mm Cannulated Short Thread
 - › 4.0 mm Cannulated Long Thread
- (screws sold separately)

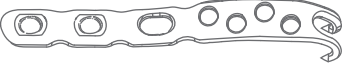
Ordering Information

Ankle Fracture Management System (AR-8943S)

Instruments for 2.7 mm and 3 mm Screws	
Screwdriver, T10 hexalobe	AR-8943-08
Drive Shaft, T10 hexalobe, QC	AR-8944DH
Drill Bit, graduated, 2 mm	AR-8943-16
Drill Guide, threaded, low profile, 2.7 mm	AR-8943-17
Drill Guide, 2.7 mm/2 mm	AR-8827D-02
Drill Bit, 2.7 mm	AR-8827D-01
Drill Guide, 3 mm/2 mm	AR-8943-31
Drill Bit, 3 mm	AR-8943-36
Instruments for 3.5 mm Cortical, Locking, 4 mm Cancellous Screws	
Bone Tap, cancellous, 4 mm	AR-8940T
Countersink for 3.5 mm/4 mm screws	AR-8950-03
Screwdriver, T15 hexalobe	AR-8943-10
Hexalobe Driver, T15	AR-8941DH
Drill Bit, 3.5 mm	AR-4160-35
Drill Bit, laser-marked at 3.5 in, graduated, 2.5 mm	AR-8943-42
Drill Guide, 3.5 mm/2.5 mm	AR-8943-14
Bone Tap, 3.5 mm	AR-8935T
Drill Guide, locking, 3.5 mm	AR-8943-43
Drill Sleeve Insert, 2.5 mm	AR-8943-27
Drill Bit, 2.5 mm	AR-8943-30
Instruments for 4 mm Cannulated Screws	
Drill Bit, cannulated, 2.6 mm	AR-8943-02
Drill Guide, 2.6 mm/1.35 mm	AR-8943-03
Depth Device, cannulated	AR-8943-04
Driver, T15 hexalobe, cannulated	AR-8943-09
Drive Shaft, QC, T15 hexalobe, cannulated	AR-8943-12
Bone Tap, cannulated, 4 mm	AR-8943-06
Countersink, cannulated, 4 mm	AR-8943-05
Parallel Drill Guide, 2.6 mm/1.35 mm	AR-8943-41

Instruments	
Bone Reduction Forceps, curved, pointed	AR-8943-07
Holding Sleeve for 2.7 mm, 3.5 mm, and 4 mm screws	AR-8943-11
Driver Handle w/ AO Connection, cannulated	AR-13221AOC
Handle, Ratcheting, QC, cannulated	AR-8950RH
Depth Device, low profile, 2.7 mm/3.5 mm/4 mm	AR-8943-15
Bending Iron	AR-8943-18
Freer Elevator	AR-8943-19
Periosteal Elevator, curved blade, 6 mm	AR-8943-20
Sharp Hook	AR-8943-21
Cup Curette, straight shaft, 100 mm	AR-8661
Hohmann Retractor, 8 mm	AR-13210
Hohmann Retractor, 15 mm	AR-8943-22
Lobster Claw	AR-8943-23
Weber Clamp	AR-8943-24
Screw Holding Forceps	AR-8941F
Aiming Guide, locking distal fibula plate, right	AR-8943-33
Aiming Guide, locking distal fibula plate, left	AR-8943-34
Aiming Guide, locking lateral hook plate	AR-8943-35
Tamp for Hook Plates	AR-8943-28
Ankle Fracture System Instrument Case	AR-8943C
Disposables	
Guidewire w/ Trocar Tip, threaded, 0.053 in (1.35 mm × 150 mm)	AR-8943-38
Guidewire w/ Trocar Tip, 0.053 in (1.35 mm × 150 mm)	AR-8943-01
Guidewire w/ Trocar Tip, 0.062 in (1.6 mm × 150 mm)	AR-8941K
Guidewire w/ Trocar Tip, 0.078 in (2 mm × 130 mm)	AR-8945K
Traction Post, threaded, 3.5 mm	AR-8970JD-35S
Optional	
Sizing Template	AR-8943BT
Syndesmosis Clamp	AR-8943-44
Syndesmosis Clamp Lid	AR-8943-44C
Verbrugge Forceps	AR-8943-39
Drill Sleeve, 2 mm	AR-8943-32
Drill Guide Sleeve Caddy	AR-8943C-32
Bending Guide, Locking, 3.5 mm	AR-8954-07
Screw Caddy, 2.7 mm	AR-8827C-10
Screw Caddy, 3.0 mm	AR-8943C-30
Replacement Attachment Screw	AR-8943-37
Ankle Fracture Screw Case (auxiliary)	AR-8943C-31
Two-Hole Buttress Plate	AR-8958-01
Two-Hole Buttress Plate, sterile	AR-8958-01S

Ankle Fracture Management Plates

Product Description	# of Holes	Length	Item Number	Recommended Set Content
Locking Distal Fibula Plates, right				
	4H	79 mm	AR-8943DR-04	2
	5H	91 mm	AR-8943DR-05	2
	6H	104 mm	AR-8943DR-06	2
	8H	130 mm	AR-8943DR-08	2
	10H	155 mm	AR-8943DRS-10	0 (sterile only)
	12H	180 mm	AR-8943DRS-12	0 (sterile only)
	14H	205 mm	AR-8943DRS-14	0 (sterile only)
Locking Distal Fibula Plate, left				
	4H	79 mm	AR-8943DL-04	2
	5H	91 mm	AR-8943DL-05	2
	6H	104 mm	AR-8943DL-06	2
	8H	130 mm	AR-8943DL-08	2
	10H	155 mm	AR-8943DLS-10	0 (sterile only)
	12H	180 mm	AR-8943DLS-12	0 (sterile only)
	14H	205 mm	AR-8943DLS-14	0 (sterile only)
Locking Straight Plate				
	4H	55 mm	AR-8943C-04	2
	6H	80 mm	AR-8943C-06	2
	7H	93 mm	AR-8943C-07	2
	8H	106 mm	AR-8943C-08	2
	10H	131 mm	AR-8943C-10	2
	12H	156 mm	AR-8943C-12	2
Locking Medial Hook Plate				
	3H	61 mm	AR-8943H-03	2
	5H	79 mm	AR-8943H-05	2
	7H	97 mm	AR-8943H-07	2
Locking Third Tubular Plate				
	4H	47 mm	AR-8943T-04	2
	5H	59 mm	AR-8943T-05	2
	6H	72 mm	AR-8943T-06	2
	7H	85 mm	AR-8943T-07	2
	8H	98 mm	AR-8943T-08	2
	10H	123 mm	AR-8943T-10	2
	12H	148 mm	AR-8943T-12	2
Locking Lateral Hook Plate				
	3H	72 mm	AR-8943TH-03	2
	5H	98 mm	AR-8943TH-05	2
	7H	123 mm	AR-8943TH-07	2

2.7 mm Low Profile Screws, Locking

	Length	Item Number	Recommended Set Content, AR-8943C	Recommended Set Content, AR-8943C-31
	10 mm	AR-8827L-10	4	4
	12 mm	AR-8827L-12	4	4
	14 mm	AR-8827L-14	4	4
	16 mm	AR-8827L-16	4	4
	18 mm	AR-8827L-18	4	4
	20 mm	AR-8827L-20	4	4
	22 mm	AR-8827L-22	4	4
	24 mm	AR-8827L-24	4	4
	26 mm	AR-8827L-26	4	4
	28 mm	AR-8827L-28	*	4
	30 mm	AR-8827L-30	*	4
	32 mm	AR-8827L-32	*	4
	34 mm	AR-8827L-34	*	4
	36 mm	AR-8827L-36	*	4
	38 mm	AR-8827L-38	*	4
	40 mm	AR-8827L-40	*	4
	42 mm	AR-8827L-42	*	4
	44 mm	AR-8827L-44	*	4
	46 mm	AR-8827L-46	*	4
	48 mm	AR-8827L-48	*	4
	50 mm	AR-8827L-50	*	4
	52 mm	AR-8827L-52	*	4
	54 mm	AR-8827L-54	*	4
	56 mm	AR-8827L-56	*	4
	58 mm	AR-8827L-58	*	4
	60 mm	AR-8827L-60	*	4

2.7 mm Low Profile Screws, Cortical

	Length	Item Number	Recommended Set Content, AR-8943C	Recommended Set Content, AR-8943C-31
	10 mm	AR-8827-10	*	3
	12 mm	AR-8827-12	*	3
	14 mm	AR-8827-14	*	3
	16 mm	AR-8827-16	*	3
	18 mm	AR-8827-18	*	3
	20 mm	AR-8827-20	*	3
	22 mm	AR-8827-22	*	3
	24 mm	AR-8827-24	*	3
	26 mm	AR-8827-26	*	3
	28 mm	AR-8827-28	*	3
	30 mm	AR-8827-30	*	3
	32 mm	AR-8827-32	*	3
	34 mm	AR-8827-34	*	3
	36 mm	AR-8827-36	*	3
	38 mm	AR-8827-38	*	3
	40 mm	AR-8827-40	*	3
	42 mm	AR-8827-42	*	3
	44 mm	AR-8827-44	*	3
	46 mm	AR-8827-46	*	3
	48 mm	AR-8827-48	*	3
	50 mm	AR-8827-50	*	3
	52 mm	AR-8827-52	*	3
	54 mm	AR-8827-54	*	3
	56 mm	AR-8827-56	*	3
	58 mm	AR-8827-58	*	3
	60 mm	AR-8827-60	*	3

3 mm Low Profile Screws, Cancellous

	Length	Item Number	Recommended Set Content, AR-8943C	Recommended Set Content, AR-8943C-31
	10 mm	AR-8830-10	3	3
	12 mm	AR-8830-12	3	3
	14 mm	AR-8830-14	3	3
	16 mm	AR-8830-16	3	3
	18 mm	AR-8830-18	3	3
	20 mm	AR-8830-20	3	3
	22 mm	AR-8830-22	3	3
	24 mm	AR-8830-24	3	3
	26 mm	AR-8830-26	3	3
	28 mm	AR-8830-28	3	3
	30 mm	AR-8830-30	3	3

*Only in the Ankle Fracture/Distal Tibia Screw System, AR-8943C-31

3.5 mm Low Profile Screws, Cortical

	Length	Item Number	Recommended Set Content, AR-8943C	Recommended Set Content, AR-8943C-31
	10 mm	AR-8835-10	3	6
	12 mm	AR-8835-12	6	6
	14 mm	AR-8835-14	6	6
	16 mm	AR-8835-16	6	6
	18 mm	AR-8835-18	6	6
	20 mm	AR-8835-20	3	6
	22 mm	AR-8835-22	3	6
	24 mm	AR-8835-24	3	6
	26 mm	AR-8835-26	3	6
	28 mm	AR-8835-28	3	6
	30 mm	AR-8835-30	3	6
	32 mm	AR-8835-32	*	4
	34 mm	AR-8835-34	*	4
	35 mm	AR-8835-35	3	N/A
	36 mm	AR-8835-36	*	4
	38 mm	AR-8835-38	*	4
	40 mm	AR-8835-40	3	4
	42 mm	AR-8835-42	*	4
	44 mm	AR-8835-44	*	4
	45 mm	AR-8835-45	3	N/A
	46 mm	AR-8835-46	*	4
	48 mm	AR-8835-48	*	4
	50 mm	AR-8835-50	3	4
	52 mm	AR-8835-52	*	4
	54 mm	AR-8835-54	*	4
	55 mm	AR-8835-55	3	N/A
	56 mm	AR-8835-56	*	4
	58 mm	AR-8835-58	*	4
	60 mm	AR-8835-60	3	4
	65 mm	AR-8835-65	*	4
	70 mm	AR-8835-70	*	4
	75 mm	AR-8835-75	*	4
	80 mm	AR-8835-80	*	4

*Only in the Ankle Fracture/Distal Tibia Screw System, AR-8943C-31

3.5 mm Low Profile Screws, Locking

	Length	Item Number	Recommended Set Content, AR-8943C	Recommended Set Content, AR-8943C-31
	10 mm	AR-8835L-10	6	6
	12 mm	AR-8835L-12	6	6
	14 mm	AR-8835L-14	6	6
	16 mm	AR-8835L-16	6	6
	18 mm	AR-8835L-18	3	6
	20 mm	AR-8835L-20	3	6
	22 mm	AR-8835L-22	*	6
	24 mm	AR-8835L-24	*	6
	26 mm	AR-8835L-26	*	6
	28 mm	AR-8835L-28	*	6
	30 mm	AR-8835L-30	*	6
	32 mm	AR-8835L-32	*	6
	34 mm	AR-8835L-34	*	6
	36 mm	AR-8835L-36	*	6
	38 mm	AR-8835L-38	*	6
	40 mm	AR-8835L-40	*	6
	42 mm	AR-8835L-42	*	6
	44 mm	AR-8835L-44	*	6
	46 mm	AR-8835L-46	*	6
	48 mm	AR-8835L-48	*	6
	50 mm	AR-8835L-50	*	6

4 mm Low Profile Screws, Cancellous

	Length	Item Number	Recommended Set Content, AR-8943C	Recommended Set Content, AR-8943C-31
	10 mm	AR-8840-10	3	6
	12 mm	AR-8840-12	3	6
	14 mm	AR-8840-14	3	6
	16 mm	AR-8840-16	3	6
	18 mm	AR-8840-18	3	6
	20 mm	AR-8840-20	3	6
	22 mm	AR-8840-22	3	6
	24 mm	AR-8840-24	3	6
	26 mm	AR-8840-26	*	6
	28 mm	AR-8840-28	*	6
	30 mm	AR-8840-30	*	6
	32 mm	AR-8840-32	*	3
	34 mm	AR-8840-34	*	3
	36 mm	AR-8840-36	*	3
	38 mm	AR-8840-38	*	3
	40 mm	AR-8840-40	*	3
	42 mm	AR-8840-42	*	3
	44 mm	AR-8840-44	*	3
	46 mm	AR-8840-46	*	3
	48 mm	AR-8840-48	*	3
	50 mm	AR-8840-50	*	3
	55 mm	AR-8840-55	*	3
	60 mm	AR-8840-60	*	3

4 mm Low Profile Screws, Short Thread, Cannulated

	Length	Item Number	Recommended Set Content, AR-8943C	Recommended Set Content, AR-8943C-31
	30 mm	AR-8840C-30	4	3
	32 mm	AR-8840C-32	*	3
	34 mm	AR-8840C-34	*	3
	35 mm	AR-8840C-35	4	N/A
	36 mm	AR-8840C-36	*	3
	38 mm	AR-8840C-38	*	3
	40 mm	AR-8840C-40	4	4
	42 mm	AR-8840C-42	*	3
	44 mm	AR-8840C-44	*	3
	45 mm	AR-8840C-45	4	N/A
	46 mm	AR-8840C-46	*	3
	48 mm	AR-8840C-48	*	3
	50 mm	AR-8840C-50	4	4
	55 mm	AR-8840C-55	4	4
	60 mm	AR-8840C-60	4	3

4 mm Low Profile Screws, Long Thread, Cannulated

	Length	Item Number	Recommended Set Content, AR-8943C	Recommended Set Content, AR-8943C-31
	30 mm	AR-8840CL-30	4	4
	32 mm	AR-8840CL-32	*	4
	34 mm	AR-8840CL-34	*	4
	35 mm	AR-8840CL-35	4	N/A
	36 mm	AR-8840CL-36	*	4
	38 mm	AR-8840CL-38	*	4
	40 mm	AR-8840CL-40	4	4
	42 mm	AR-8840CL-42	*	4
	44 mm	AR-8840CL-44	*	4
	45 mm	AR-8840CL-45	4	N/A
	46 mm	AR-8840CL-46	*	4
	48 mm	AR-8840CL-48	*	4
	50 mm	AR-8840CL-50	4	4
	55 mm	AR-8840CL-55	4	4
	60 mm	AR-8840CL-60	4	4

*Only in the Ankle Fracture/Distal Tibia Screw System, AR-8943C-31

Other Implants and Instruments

Product	Item Number	Recommended Set Content, AR-8943C	Recommended Set Content, AR-8943C-31
Washer, 7 mm	AR-8870W	6	6
BB-Tak, smooth	AR-13226	2	4
BB-Tak, threaded	AR-13226T	2	4
Drill Sleeve for 2.7 mm Locking Screws	AR-8943-32	—	—
Drill Sleeve for 3.5 mm Locking Screws	AR-8963-06	—	—

The image displays two views of the OrthoFix System tray. The left view shows the tray with various locking plates and screws organized by type and size. The right view shows the tray with a grid of screws and a diagram of the locking mechanism.

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Supporting Products

Distal Tibia Plating System

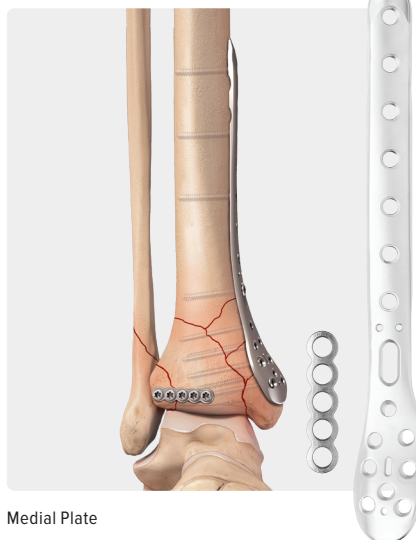
The Distal Tibia Plating System offers the versatility required for fixating high- or low-energy pilon fractures. These fractures are commonly associated with high levels of comminution from articular impaction, as well as fibular fractures, and have been addressed in the implant designs. A comprehensive plate offering is included in the distal tibia system, giving surgeons the freedom to choose the most appropriate surgical approach for each patient. Soft-tissue management is also critical to patient outcomes and as a result, significant time was spent on keeping plates low profile to minimize soft-tissue irritation.

Arthrex's ArthroFX® external fixation system is also available for patients that have significant soft-tissue swelling or open fractures where a staged protocol may be appropriate.

Color-coded and straightforward instrumentation makes the Arthrex Distal Tibia Plating System easy and efficient to use.



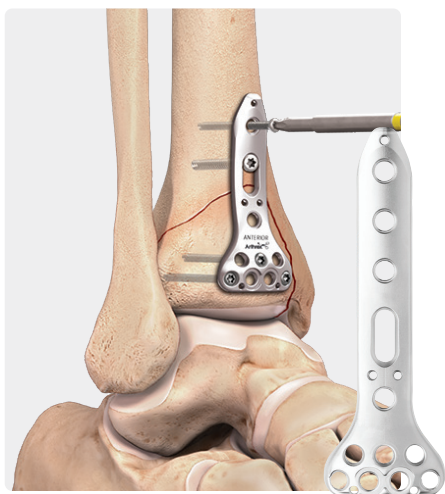
Anterolateral Plate



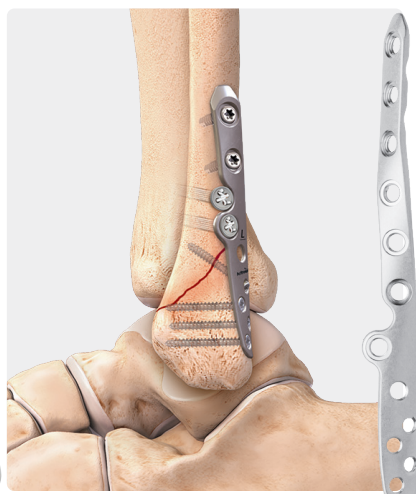
Medial Plate



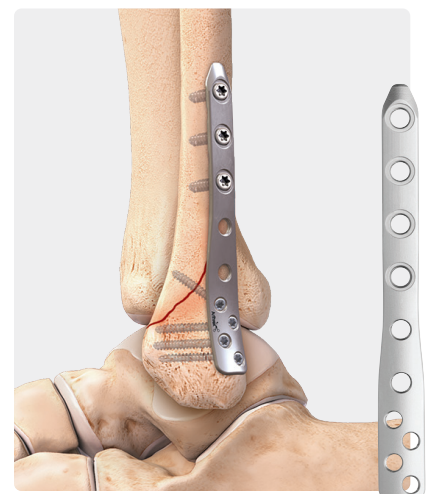
Posterior Plate



Anterior Plate



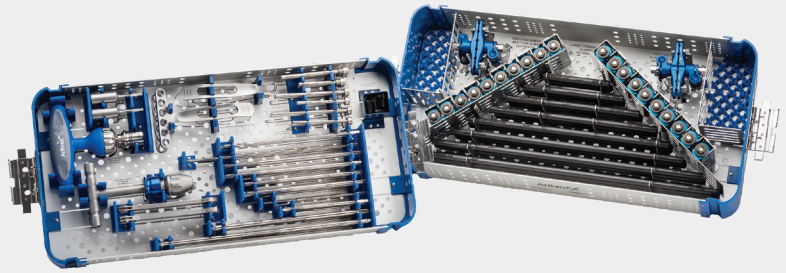
Posterolateral Anatomic Distal Fibula Plate



Posterolateral Distal Fibula Plate

ArthroFX® Large External Fixation System

ArthroFX®
external fixation system large



The ArthroFX Large External Fixation System was designed to give surgeons a simple, efficient, and versatile solution for temporary or definitive fixation.

The system consists of:

- › 11 mm carbon fiber rods
- › 4 mm and 5 mm Schanz pins
- › 6 mm transfixation pins
- › Large combination clamps and multi-pin clamps with rod attachments or straight arm attachments

In conjunction with the intuitive instrumentation, the one-tray system provides an easy-to-use and cost-effective solution for physicians and hospitals to manage fractures with severe soft-tissue injuries, infections, or other conditions amenable for external fixation.



Carbon Fiber Rod

- › Radiolucent and lightweight
- › 11 mm diameter
- › 100 mm-500 mm lengths



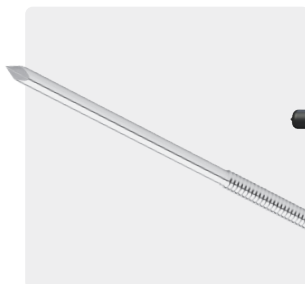
Large Combination Clamps and Multi-Pin Clamps With Rod Attachments or Straight Arm Attachments

- › Designed for ease of use and rapid locking



Self-Tapping Schanz Screw

- › Stainless steel
- › 4.0 mm × 125 mm and 150 mm
- › 5.0 mm × 175 mm, 200 mm, and 250 mm

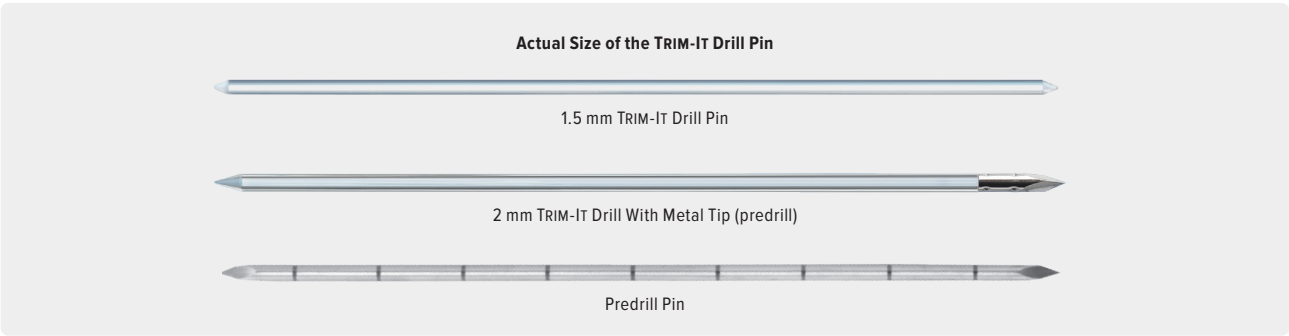


Transfixation Pin

- › Centrally threaded body with trocar tip
- › 6.0 mm × 225 mm and 300 mm



TRIM-IT Drill Pin® System



Used for percutaneous fixation of periarticular fracture fragments, the TRIM-IT Drill Pin system provides excellent preliminary fixation without the drawbacks of metal K-wires or pins. The radiolucent fixation allows for critical analysis of periarticular joint reduction and easy definitive hardware fixation when applicable. The pins are made from PLLA material.

TRIM-IT Drill Pin System Advantages

- › Inserts quickly with a standard pin driver
- › Radiolucent for accurate healing assessment
- › Eliminates pin trusion and removal for patient comfort
- › Complete sterile kit for convenience

Bioabsorbable Advantages

- › Radiolucency
- › No need for removal
- › Closer to the elastic modulus of bone

TRIM-IT Drill Pin Disposables Kit

AR-4151DS

Absorbable Pin w/ Metal Tip, 1.5 mm × 100 mm
K-Wire
Manual Insertion Instruments
Guide Sleeve and Bone Tap

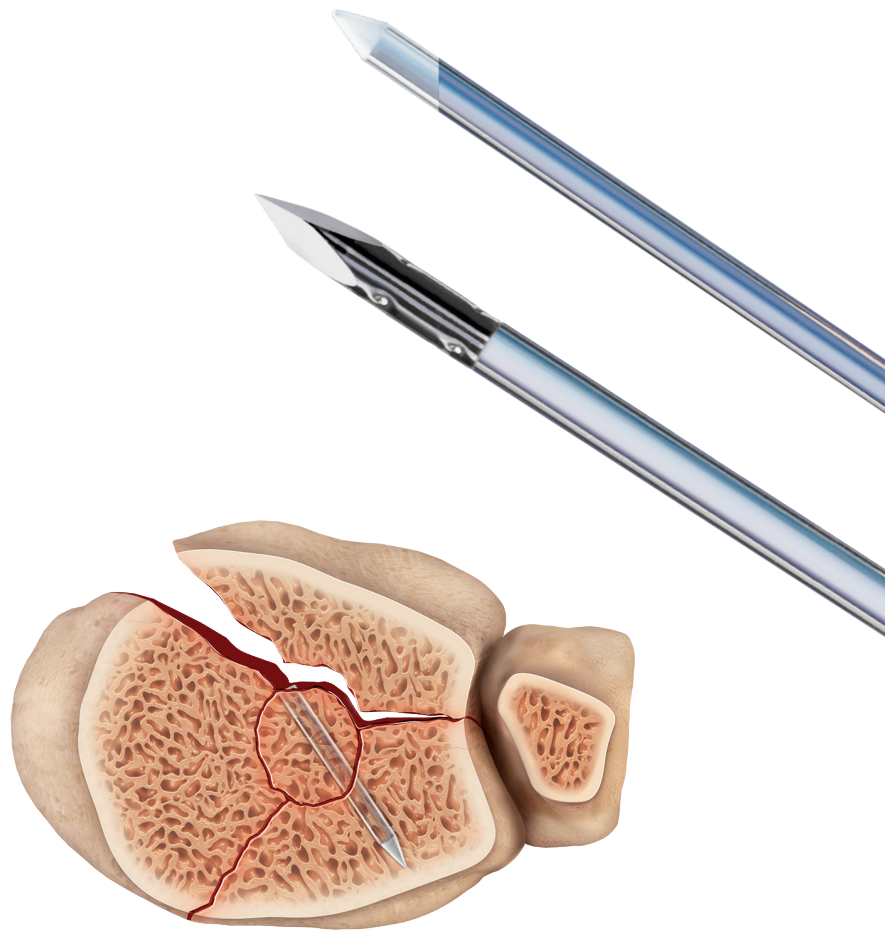
TRIM-IT Drill Pin Disposables Kit

AR-4152DS

Absorbable Pin w/ Metal Tip, 2 mm × 100 mm
K-Wire
Manual Insertion Instruments
Guide Sleeve and Bone Tap



Graduated Bone Tap



Axial View

Biologic Augmentation Options



Quickset™ Calcium Phosphate Cement

Quickset cement is a macroporous, injectable, hardening, resorbable bone cement provided in an easy-to-use, closed mixing system with high compressive strength

Quickset cement, 5 cc	ABS-3005
Quickset cement, 8 cc	ABS-3008



BoneSync™ Bone Void Fillers

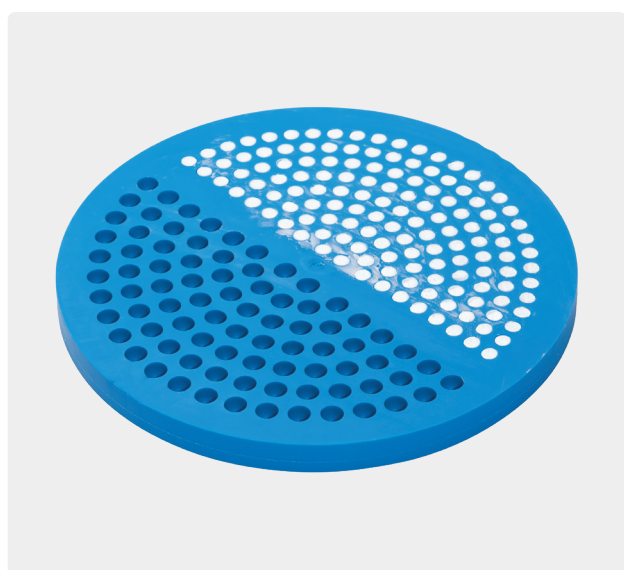
BoneSync bone void fillers provide an osteoconductive scaffold and can be hydrated with biologic fluids such as bone marrow aspirate to optimize bone remodeling potential.

BoneSync Cement

BoneSync Cement, 3 cc	ABS-3103
BoneSync Cement, 5 cc	ABS-3105

BoneSync Putty

Putty, 2.5 cc	ABS-3202
Putty, 5 cc	ABS-3205
Putty, 10 cc	ABS-3210
Putty, 15 cc	ABS-3215



Arthrex Calcium Sulfate BioBeads

For bony infections, Arthrex Calcium Sulfate BioBeads can be used to fill in voids and can be delivered in a bead or paste configuration. Bead sizes available include 3 mm, 4.5 mm or 6 mm.

Arthrex Calcium Sulfate BioBeads, 5 cc	ABS-3000-05
Arthrex Calcium Sulfate BioBeads, 10 cc	ABS-3000-10
Arthrex Calcium Sulfate BioBeads, 20 cc	ABS-3000-20

This description of technique is provided as an educational tool and clinical aid to assist properly licensed medical professionals in the usage of specific Arthrex products. As part of this professional usage, the medical professional must use their professional judgment in making any final determinations in product usage and technique. In doing so, the medical professional should rely on their own training and experience and should conduct a thorough review of pertinent medical literature and the product's directions for use. Postoperative management is patient-specific and dependent on the treating professional's assessment. Individual results will vary and not all patients will experience the same postoperative activity level or outcomes.



Arthrex manufacturer, authorized
representative, and importer
information (Arthrex eIFUs)



US patent
information