

Titanium Pilon Fracture Plating System



Arthrex® 

Titanium Pilon Fracture Plating System

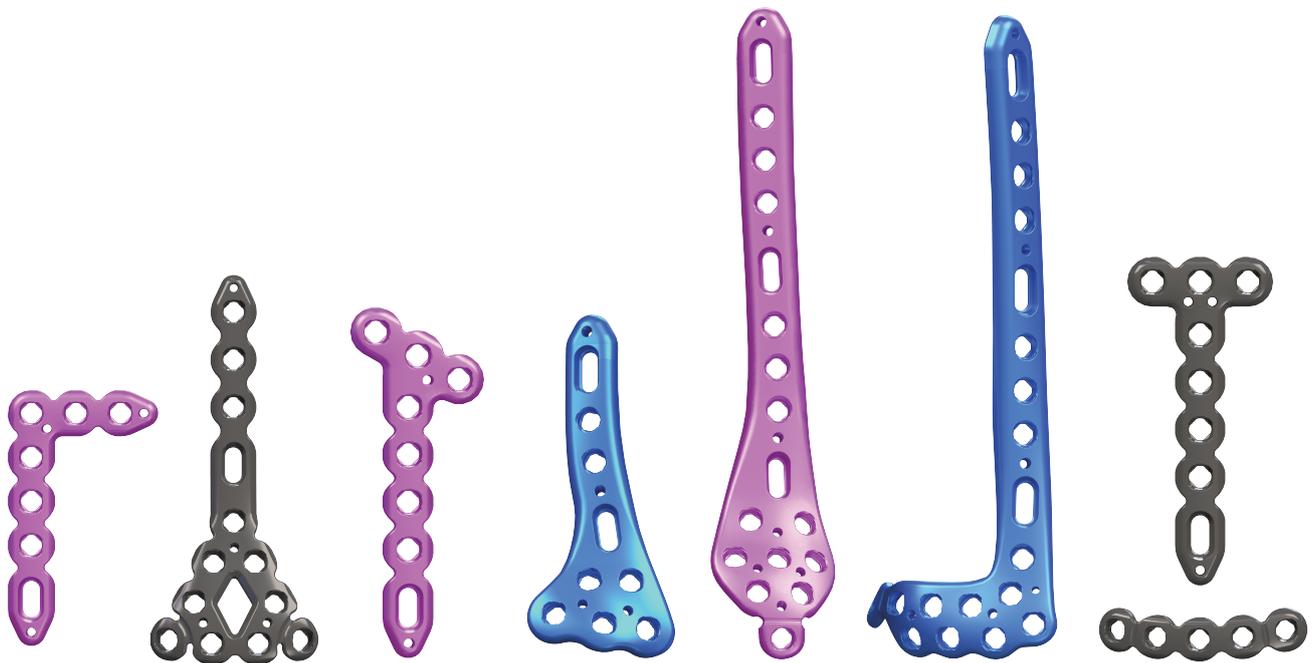
Introduction

The Titanium Pilon Fracture Plating System is designed to address the most difficult pilon fractures. The system includes a wide array of fracture-specific plates with variable-angle locking (VAL) technology to ensure even the most distal of fracture fragments are captured. Type II titanium anodizing surface treatment increases wear resistance and fatigue strength while decreasing frictional characteristics. The color-coded instrumentation facilitates ease of system use.

The following plates are included in the Titanium Pilon Fracture Plating System:

- Medial pilon plate
- Anterolateral distal tibia plate
- Anterior distal tibia plate
- Cortical rim plate
- Posterior distal tibia plate
- T plate

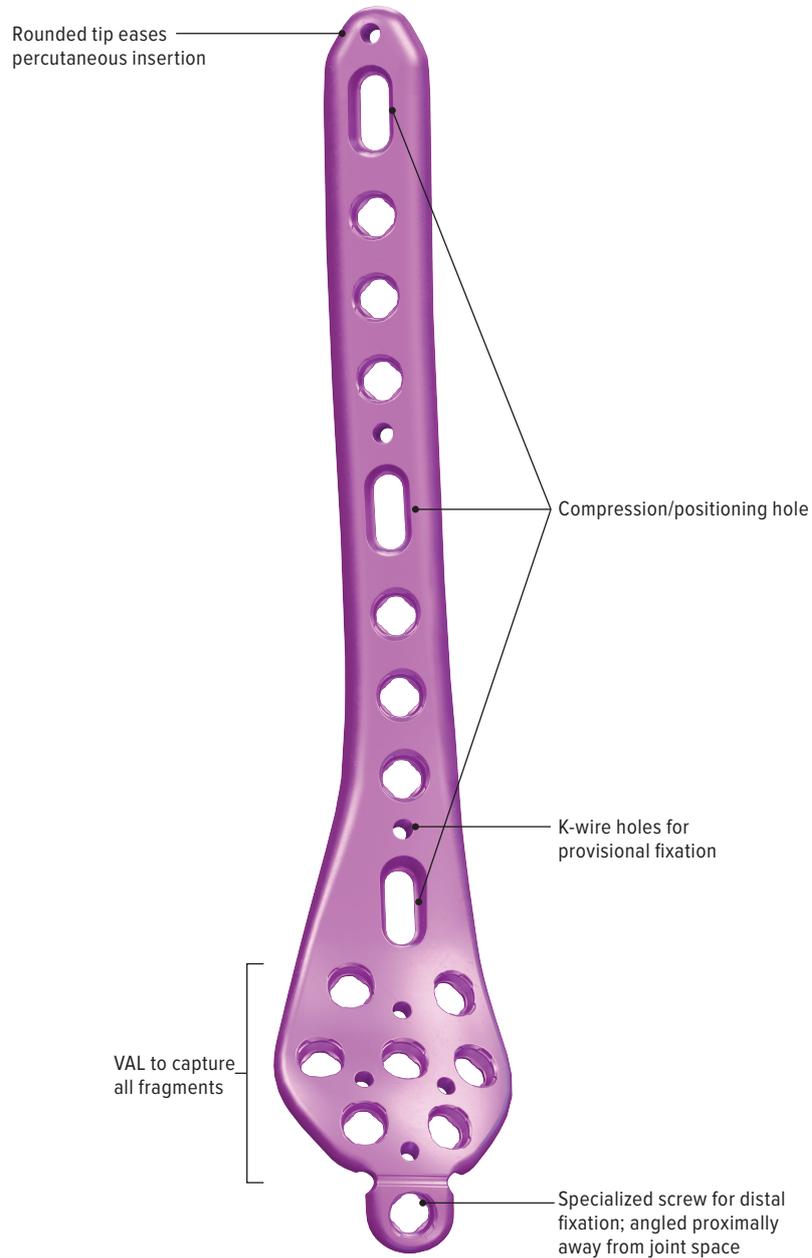
Arthrex offers additional solutions for treating patients with ankle fractures, including the ArthroFX® large external fixation system, Ankle Fracture Management System, Distal Tibia Plating System, FibuLock® fibular nail, and KruLock™ screw.



Medial Pilon Plate

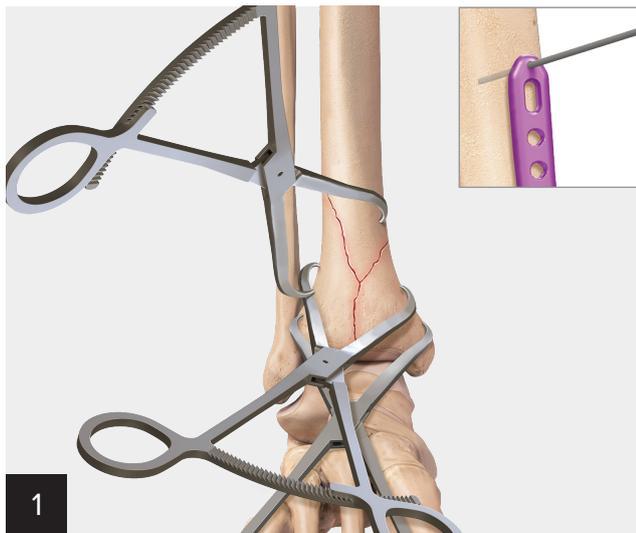
The medial pilon plate is designed to accept 2.4 mm, 2.7 mm, 3.5 mm, and 4.0 mm nonlocking screws and 2.7 mm or 3.5 mm VAL locking screws. An oblong hole in the shaft and multiple K-wire holes aid in proper plate placement.

Note: Plates accept additional 2.4 mm/2.7 mm/3.5 mm and 4.0 mm screws in all holes.

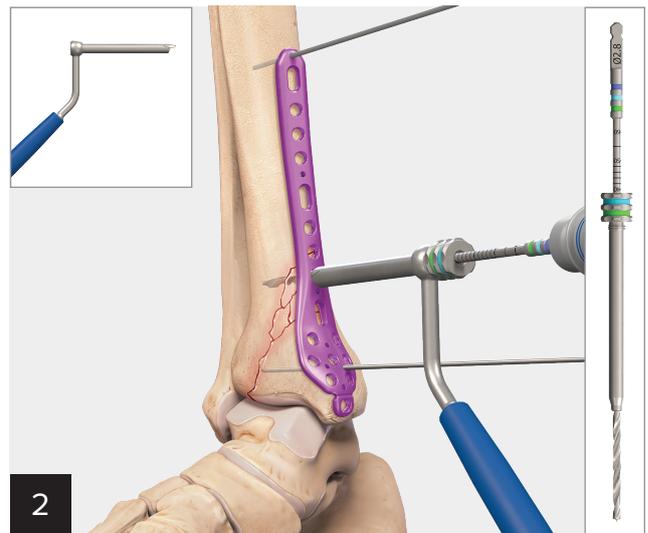


Offered in **13**, **17**, **21**, **25**, and **29** holes.

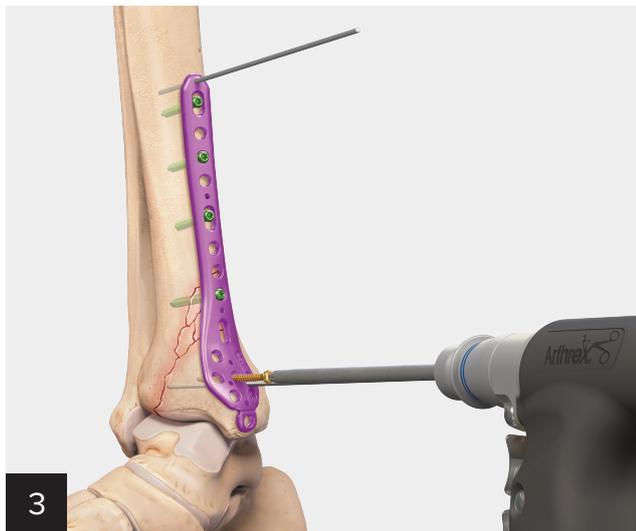
Medial Pilon Plate Surgical Technique



1 Reduce the fracture with the provided pointed bone reduction forceps or lobster claw forceps. Following reduction, select the appropriate size implant and position provisionally on bone using K-wires.

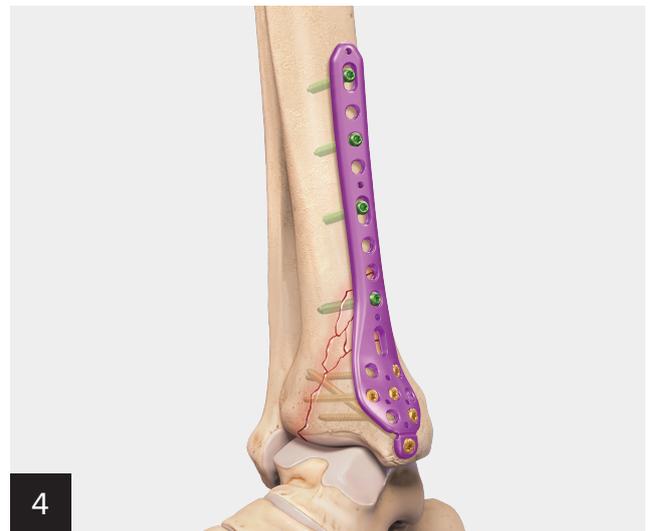


2 Using the 2.8 mm drill, drill bicortically through the 2.8 mm drill guide. Using the calibrated drill, measure for screw length. Using the T10 driver, insert the appropriate 3.5 mm screw.



3 Drill and insert additional 2.4 mm/2.7 mm/3.5 mm/4.0 mm screws as necessary. Ensure an adequate number of screws are placed above and below the fracture. Use the torque limiter for final tightening of the locking screws.

Pearl: Using 2.7 mm screws distally and 3.5 mm screws proximally in the shaft is suggested.

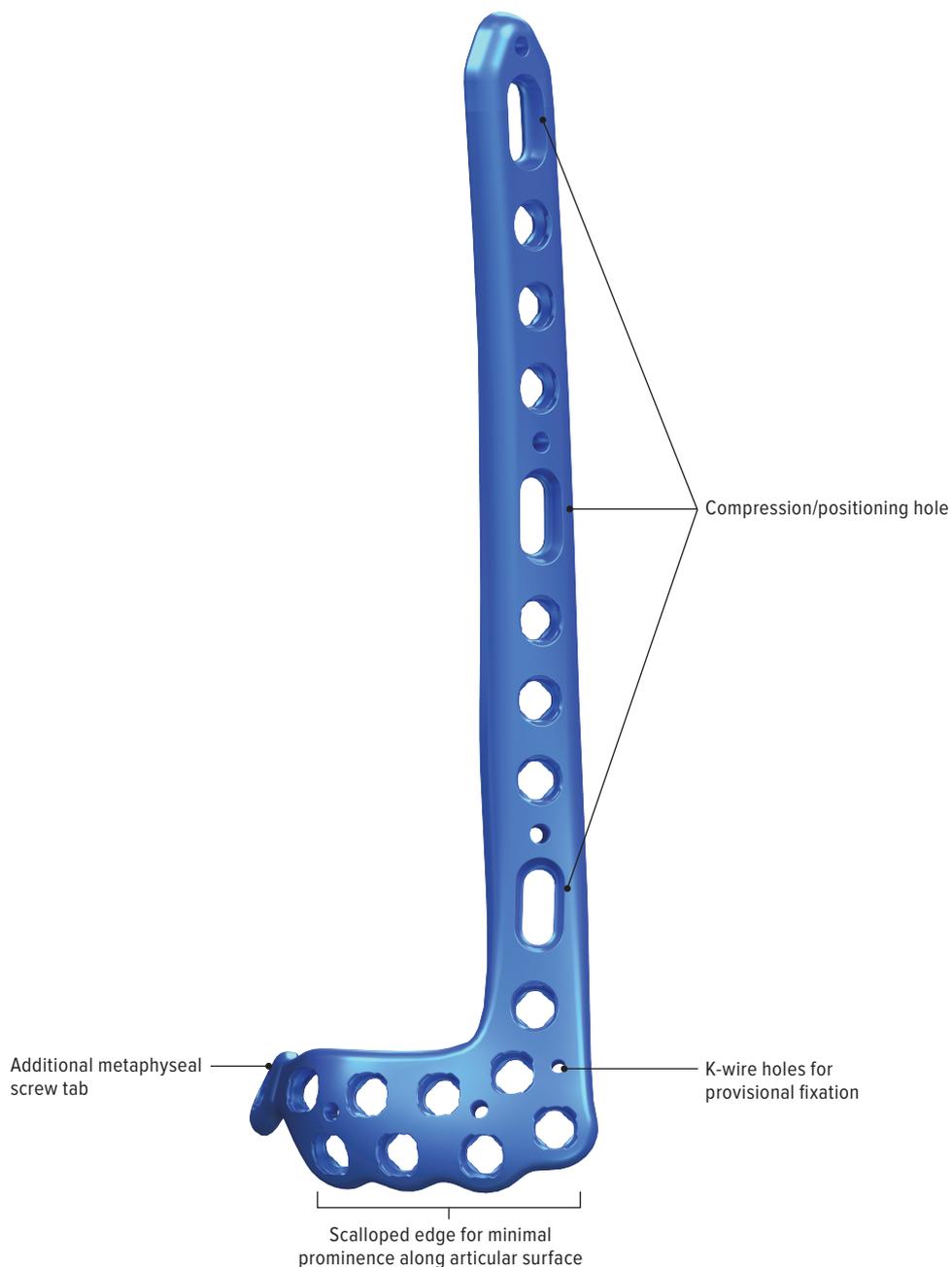


4 Final fixation.

Anterolateral Distal Tibia Plate

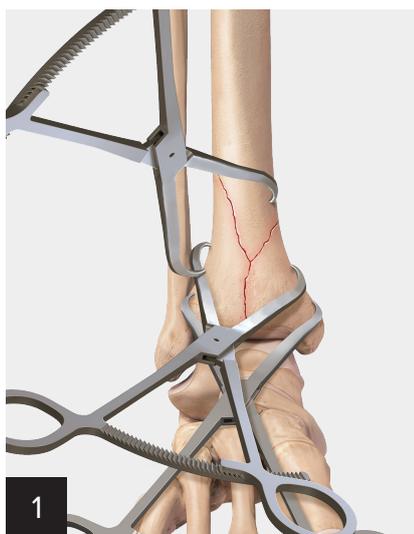
The anterolateral distal tibia plate has two distal rows of locking or nonlocking screws to address complex, high-energy pilon fractures. The plate is designed to accept 2.4 mm, 2.7 mm, 3.5 mm, and 4.0 mm nonlocking screws and 2.7 mm or 3.5 mm VAL screws.

Note: Plates accept additional 2.4 mm/2.7 mm/3.5 mm and 4.0 mm screws in all holes.

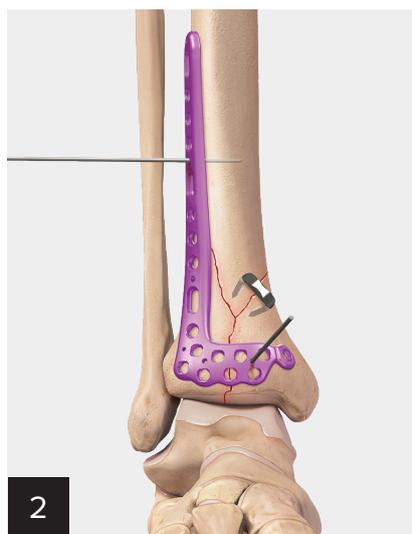


Offered in **15, 19, 23, 27, and 31** holes.

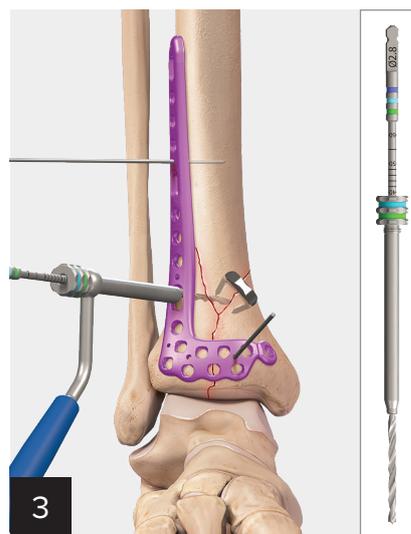
Anterolateral Distal Tibia Plate Surgical Technique



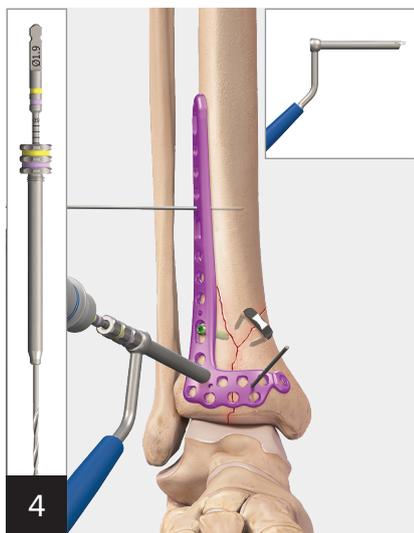
1
Reduce the fracture with the provided pointed bone reduction forceps or lobster claw forceps.



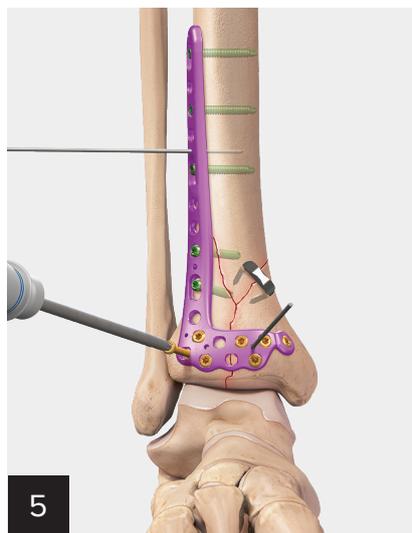
2
Select the appropriate size implant and position provisionally on bone using K-wires.



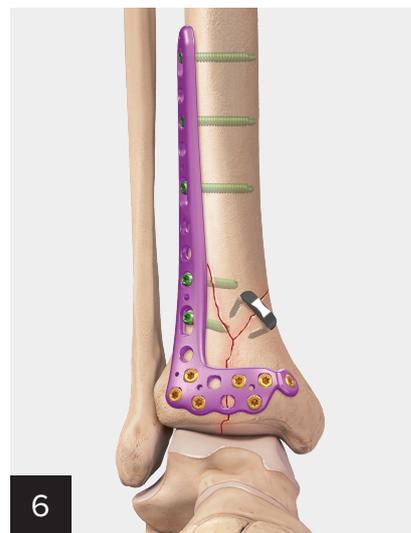
3
Using a 2.8 mm drill bit, drill bicortically through the 2.8 mm drill guide. Based off the calibrated drill bit, insert the appropriate size 3.5 mm cortical screw. Alternatively, use a depth gauge to measure screw length.



4
Using the 1.9 mm drill, drill through the 1.9 mm drill guide. Using the calibrated drill bit, measure and select the appropriate size 2.7 mm screw. Alternatively, use the depth gauge to calculate screw depth.



5
Insert the appropriate size 2.7 mm screw by using the T10 screwdriver. Ensure final tightening of locking screws via the torque limiting driver.

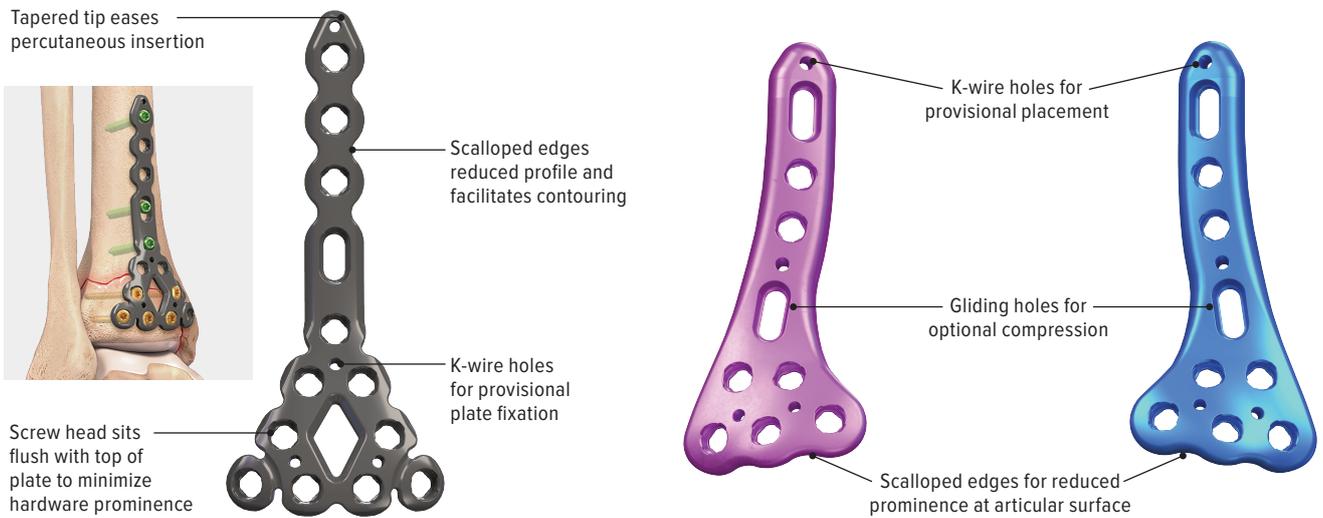


6
Repeat steps 3 through 5 as necessary until final fixation is achieved.

Anterior Distal Tibia Plate and Posterior Distal Tibia Plates

Plates follow a similar surgical technique as the medial pilon and anterolateral distal tibia plates.

Note: Plates accept additional 2.4 mm/2.7 mm/3.5 mm and 4.0 mm screws in all holes.



Offered in **11** and **13** holes.

Offered in **9** holes.

Anterior Cortical Rim Plate

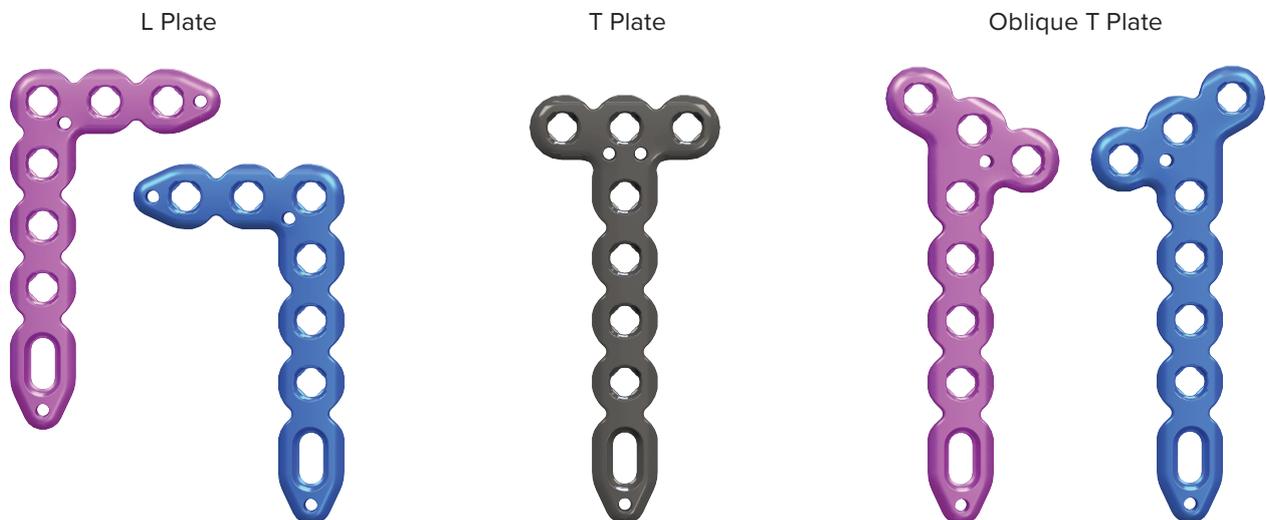


Offered in **5** holes.

Additional Plate Offerings

Plates follow a similar surgical technique as the medial pilon and anterolateral distal tibia plates.

Note: Plates accept additional 2.4 mm/2.7 mm/3.5 mm and 4.0 mm screws in all holes.



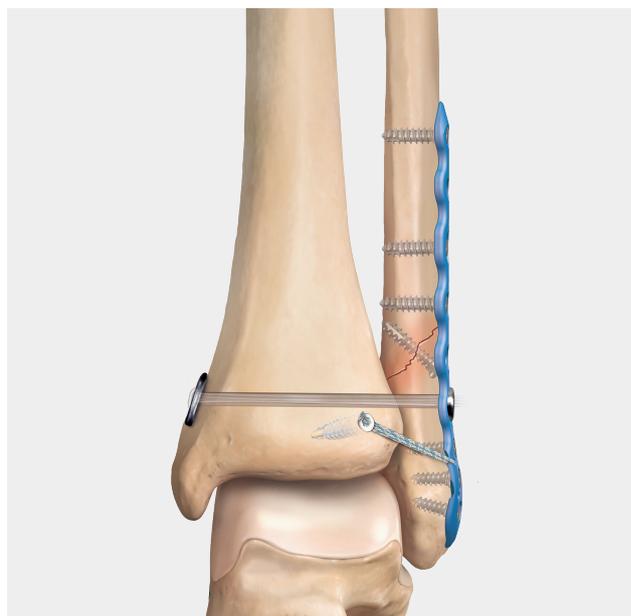
Supporting Systems

Titanium Ankle Fracture Management System

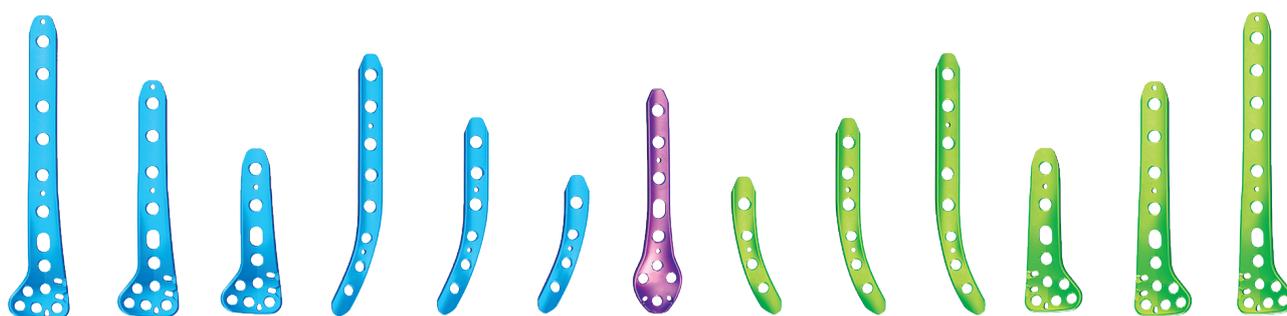
Ankle fractures are frequently complicated by variables out of the surgeon's control. The amount of comminution, degree of osteoporosis, location of the fracture, and size of the patient can all lead to challenging obstacles. Designed to be the most comprehensive set available for the treatment of these 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 distal fibula plates
- Locking straight plates and locking third tubular plates
- Posterolateral fibula plates and anatomic posterolateral fibula plates
- Medial and lateral hook plates
- Two-hole buttress plate



All plates except the medial hook plate have specific features to facilitate 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 in the AITFL *Internal/Brace*™ ligament augmentation surgical technique when reinforcing a primary AITFL repair 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.



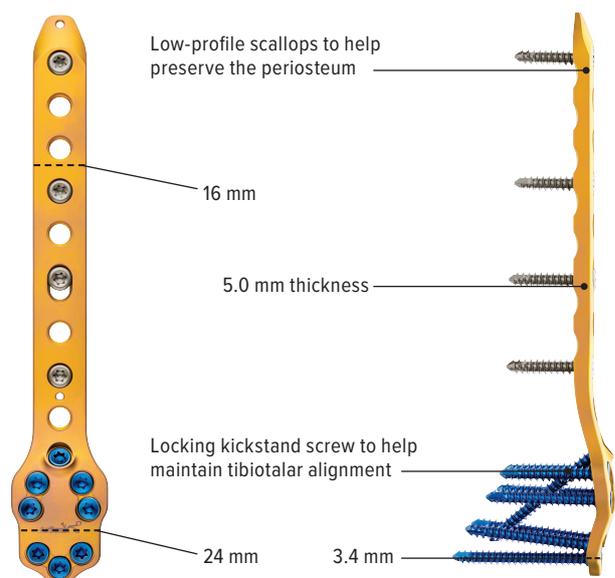
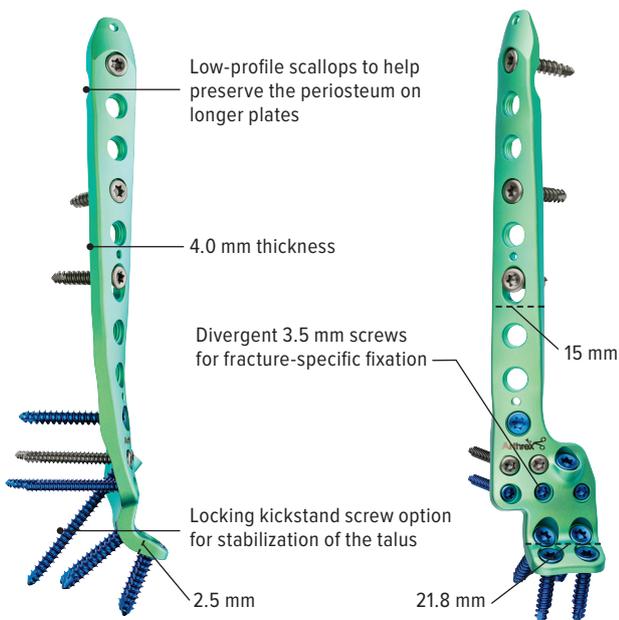
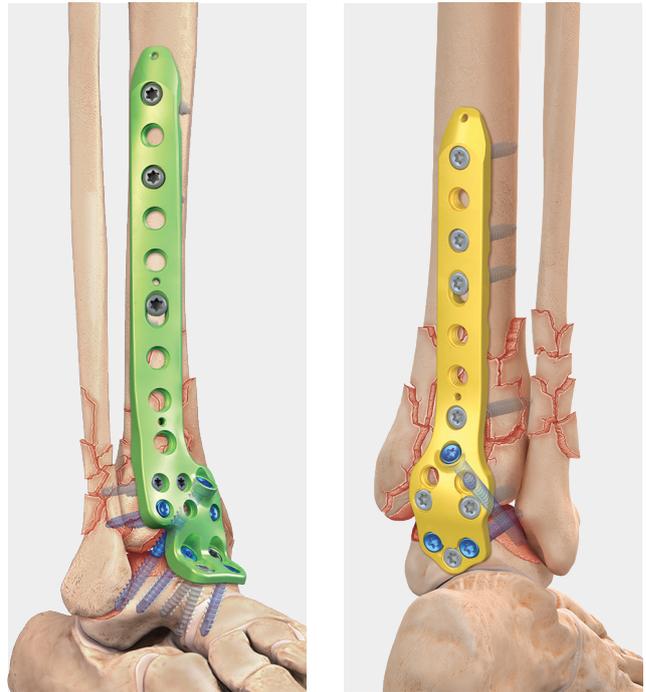
The *Internal/Brace* surgical technique is intended only to augment the primary repair/reconstruction by expanding the area of tissue approximation during the healing period and is not intended as a replacement for the native ligament. The *Internal/Brace* technique is for use during soft tissue-to-bone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

Supporting Systems

Pilon Fusion Plating System

The Pilon Fusion Plating System was designed to treat distal tibia fractures that require both fracture reduction and primary ankle arthrodesis. Severe damage to the tibiotalar (TT) joint often results in posttraumatic arthritis, pain, stiffness, and the need for secondary surgeries. The Pilon Fusion Plating System provides another option to address these severe fracture patterns with primary TT arthrodesis of the articular surface to avoid secondary surgery and chronic pain. Anterolateral and posterior approaches, depending on the fracture pattern, allow for fracture management, lengthy bridging techniques, anatomic implants, and fracture-specific locking configurations.

- 5- to 18-hole plates
- 3.5 mm diverging screws in the distal tibia
- Locking 4.5 mm kickstand screw
- Up to five 4.5 mm screws in the talus
- Anterolateral (shown) and posterior plates



Ordering Information

Product Description	Item Number
Instruments	
Guide Pin, 1.5 mm × 230 mm	0109-230
Guide Pin, fast threaded, 1.5 mm	0120-150
Temporary Fixation Pin, ankle plate	0121-000
Countersink	4006-000
Drill Guide, Hook Plate	0347-000
Drill Guide, Ankle Plate, 1.9 mm	0348-000
Drill Guide, 2.8 mm	0349-100
Drill Guide, snap-in, 2.8 mm	0352-100
Drill Guide, snap-in, 1.9 mm	0354-000
Drill Guide, 3.5 mm	0355-000
Drill Guide, impactor, lite hook plate	0369-000
Drill Guide, snap-in, lite plates, 2.8 mm	0370-000
Drill Guide, snap-in, lite plates, 1.9 mm	0371-000
Targeting Drill Guide, 2.8 mm	0380-000
Drill Guide, fixed angle, 2.8 mm	0381-000
Depth Gauge, drill pin, ankle plate	0541-000
Depth Gauge, hook tip, ankle plate	0543-000
Depth Gauge, hook tip	0550-000
Depth Gauge, hook tip, distal	0552-000
Depth Gauge, unicortical	0553-000
Screw Sheath	0643-000
Screw Sheath, targeting	0660-000
Obturator	0661-000
Forceps, lobster claw, serrated	0819-000
Forceps, plate holding	0824-200
Fixation Pin, temp, compression wheel	0832-100
Bending Iron, ankle plate	0843-000
Bending Iron, ankle plate	0843-100
Bending Iron, lite plate	0859-000
Bone Pick, 6.0 in	0900-000
Reduction Forceps, long ratchet	0901-100
Mini Hohmann Retractor, 8.0 mm blade	0903-000
Hohmann Retractor, 15 mm blade	0904-000
Suture Passing Dissector	0906-000
Lamina Spreader, ankle plate	0907-000
Queen Tong Forceps	0908-000
Prince Tong Forceps	0909-000
Elevator, periosteal, 5.0 mm	0911-000
Elevator, periosteal, 10 mm	0912-000
King Tong Forceps	0916-000
Elevator	0917-000
Reduction Forceps, angled	0918-000
Targeting Alignment Post	4914-000
Targeter Alignment Lock	4915-000
Targeter Alignment Post	4918-000
Attachment Bolt	4916-000
Parallel Drill Guide, 1.5 mm	0356-000
Targeter Alignment Lock	4919-000

Product Description	Item Number
Instruments (Cont.)	
Targeting Arm, tibia plate, left	4920-000
Targeting Arm, tibia plate, right	4921-000
Driver, cannulated, T15	5014-000
Captured Screwdriver, T10	5015-100
Handle, axial, fixed, small, cannulated	5017-000
Handle, axial, fixed, small, AO quick connect	5017-100
Screw Gripper	5022-000
Power Torque-Limiting Adaptor, 1.7 mm	5023-000
Screwdriver, short, T10	5025-100
Torque-Limiting Handle, ratcheting, 1.7 mm	5027-000
Wrench, targeter sheath	5040-000
Driver, T10	5042-000
Driver, targeter sheath	5044-000
Ankle Plate Contouring Tool	9127-000
Lower Extremity Instrument tray	9937-000
Lower Extremity Screw Tray	9938-000
Lower Extremity Plates Tray	9939-000
Lite Tray	9948-000
Proximal Tibia Plate Tray	9955-000
Proximal Tibia Instrument Tray	9956-000
Proximal Tibia Screw Tray	9957-000
Plates	
Medial Pilon Plate, short, 13H, left	3031-013
Medial Pilon Plate, medium, 17H, left	3031-017
Medial Pilon Plate, long, 21H, left	3031-021
Medial Pilon Plate, short, 13H, left	3032-013
Medial Pilon Plate, medium, 17H, right	3032-017
Medial Pilon Plate, long, 21H, right	3032-021
Anterolateral Distal Tibia Plate, short, 15H, left	3035-015
Anterolateral Distal Tibia Plate, medium, 19H, left	3035-019
Anterolateral Distal Tibia Plate, long, left, 23H	3035-023
Anterolateral Distal Tibia Plate, short, right, 15H	3036-015
Anterolateral Distal Tibia Plate, medium, right, 19H	3036-019
Anterolateral Distal Tibia Plate, long, right, 23H	3036-023
Anterior Distal Tibia Plate, short, 11H	3039-011
Anterior Distal Tibia Plate, long, 13H	3039-013
Anterior Cortical Rim Plate, 5H	3040-005
Posterior Distal Tibia Plate, left	3041-009
Posterior Distal Tibia Plate, right	3042-009
Distal Hook Plate, short, 3H	3043-003
Distal Hook Plate, medium, 5H	3043-005
Distal Hook Plate, long, 7H	3043-007
Lateral Distal Fibula Plate, XS, left, 10H	3051-010
Lateral Distal Fibula Plate, short, left, 12H	3051-012
Lateral Distal Fibula Plate, XS, right, 10H	3052-010
Lateral Distal Fibula Plate, short, right, 12H	3052-012
Lateral Distal Fibula Plate, long, right, 15H	3052-015
Lateral Distal Fibula Plate, long, left, 15H	3051-015

Product Description	Item Number
Plates (Cont.)	
Posterolateral Distal Fibula Plate, short, left, 9H	3053-009
Posterolateral Distal Fibula Plate, long, left, 12H	3053-012
Posterolateral Distal Fibula Plate, short, right, 9H	3054-009
Posterolateral Distal Fibula Plate, long, right, 12H	3054-012
Semi-Tubular Plate, 3H	3060-003
Semi-Tubular Plate, 5H	3060-005
Semi-Tubular Plate, 7H	3060-007
Semi-Tubular Plate, 9H	3060-009
Semi-Tubular Plate, 11H	3060-011
Straight Plate, 3H	3061-003
Straight Plate, 5H	3061-005
Straight Plate, 7H	3061-007
Straight Plate, 9H	3061-009
Straight Plate, 11H	3061-011
T-Plate, 2 × 3H	3062-005
T-Plate, 2 × 5H	3062-007
T-Plate, 3 × 3H	3063-006
T-Plate, 3 × 5H	3063-008
Oblique Plate, 3 × 3H, left	3064-006
Oblique T-Plate, 3 × 5H, left	3064-008
Oblique Plate, 3 × 3H, right	3065-006
Oblique Plate, 3 × 5H, right	3065-008
L-Plate, 3 × 2H, left	3066-005
L-Plate, 3 × 4H, left	3066-007
L-Plate, 3 × 2H, right	3067-005
L-Plate, 3 × 4H, right	3067-007
Washer, small fragment	3075-000
Lite Distal Hook Plate, 4H	3043-904
Lite Distal Hook Plate, 6H	3043-906
Lite Distal Hook Plate, 8H	3043-908
Lite Semi-Tubular Plate, 3H	3060-903
Lite, Semi-Tubular Plate, 5H	3060-905
Lite Semi-Tubular Plate, 7H	3060-907
Lite Semi-Tubular Plate, 9H	3060-909
Lite Semi-Tubular Plate, 11H	3060-911
Lite Semi-Tubular Plate, 13H	3060-913
Lite Semi-Tubular Plate, 15H	3060-915
Lite Semi-Tubular Plate, 17H	3060-917
Lite Straight Plate, 3H	3061-903
Lite Straight Plate, 5H	3061-905
Lite Straight Plate, 7H	3061-907
Lite Straight Plate, 9H	3061-909
Lite Straight Plate, 11H	3061-911
Lite Straight Plate, 3H	3061-913
Lite Straight Plate, 15H	3061-915
Lite Straight Plate, 17H	3061-917
Lite T-Plate, 2 × 3H	3062-905
Lite T-Plate, 2 × 5H	3062-907
Lite T-Plate, 3 × 3H	3063-906
Lite T-Plate, 3 × 5H	3063-908

Product Description	Item Number
Plates (Cont.)	
Lateral Proximal Tibia Plate, left, 2H	3081-002
Lateral Proximal Tibia Plate, left, 3H	3081-003
Lateral Proximal Tibia Plate, left, 5H	3081-005
Lateral Proximal Tibia Plate, left, 8H	3081-008
Lateral Proximal Tibia Plate, left, 11H	3081-011
Lateral Proximal Tibia Plate, left, 14H	3081-014
Lateral Proximal Tibia Plate, right, 2H	3082-002
Lateral Proximal Tibia Plate, right, 3H	3082-003
Lateral Proximal Tibia Plate, right 5H	3082-005
Lateral Proximal Tibia Plate, right, 8H	3082-008
Lateral Proximal Tibia Plate, right, 11H	3082-011
Lateral Proximal Tibia Plate, right, 14H	3082-014
Posteromedial Proximal Tibia Plate, left, 4H	3085-004
Posteromedial Proximal Tibia Plate, left, 5H	3085-005
Posteromedial Proximal Tibia Plate, left, 8H	3085-008
Posteromedial Proximal TibiaPlate, right, 4H	3086-004
Posteromedial Proximal Tibia Plate, right, 5H	3086-005
Posteromedial Proximal Tibia Plate, right, 8H	3086-008
Screws	
Nonlocking, 2.7 mm × 10 mm-50 mm (2 mm increments)	8083-010-050
Nonlocking, 3.5 mm × 10 mm-50 mm (2 mm increments)	8084-010-050
Nonlocking, 3.5 mm × 55 mm-60 mm	8084-055-060
Nonlocking, 4.0 mm × 14 mm-50 mm (2 mm increments)	8085-014-050
Nonlocking, 4.0 mm × 55 mm-60 mm	8085-055-060
Partially Threaded, 4.0 mm × 18 mm-50 mm (2 mm increments)	8086-018-050
Partially Threaded, 4.0 mm × 55 mm-60 mm	8086-055-060
VAL, 2.7 mm × 10 mm-50 mm (2 mm increments)	8087-010-050
VAL, 3.5 mm × 10 mm-50 mm (2 mm increments)	8088-010-050
VAL, 3.5 mm × 55 mm-60 mm	8088-055-060
Workhorse Screw, 3.5 mm × 20 mm-50 mm (2 mm increments)	8100-020-050
Workhorse Screw, 3.5 mm × 55 mm-60 mm	8100-055-060
Disposables	
Drill, 1.9 mm	4008-000
Drill, 2.8 mm	4009-100
Drill, cannulated, 2.8 mm	4010-100
Tap, cortical, A/O, 2.7 mm	4023-000
Tap, cortical, A/O, 3.0 mm	4024-000
Tap, cortical, A/O, 3.5 mm	4024-100
Drill, calibrated, A/O, 3.5 mm	4025-000
Drill, quick , 2.8 mm	4027-000
Drill, quick, 1.9 mm	4028-000
Tap, cortical, A/O, 4.0 mm	4029-000
Drill, proximal, calibrated, 2.8 mm	4032-000
Drill, distal, calibrated, 2.8 mm	4040-000



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.

View U.S. patent information at www.arthrex.com/corporate/virtual-patent-marking

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