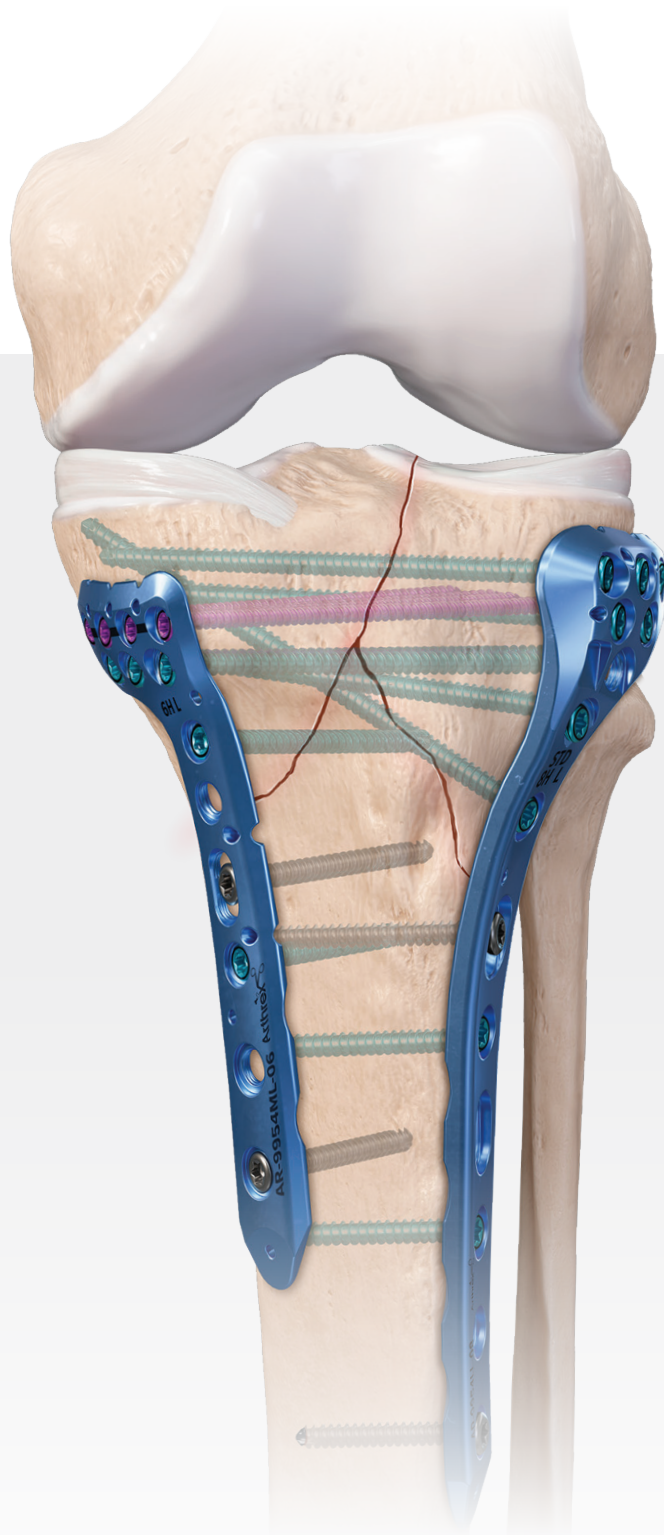


# Variable Angle Proximal Tibial Plating System

Surgical Technique



## Introduction

The Arthrex Variable Angle (VA) Proximal Tibial Plating System is designed to provide surgeons with a versatile and reliable solution for treating proximal tibia fractures. This system features medial, posteromedial, and two lateral plate styles (standard and high), optimized to fit patient anatomy.

All plates are equipped with advanced variable-angle locking (VAL) capabilities and KreuLock™ locking compression screws.

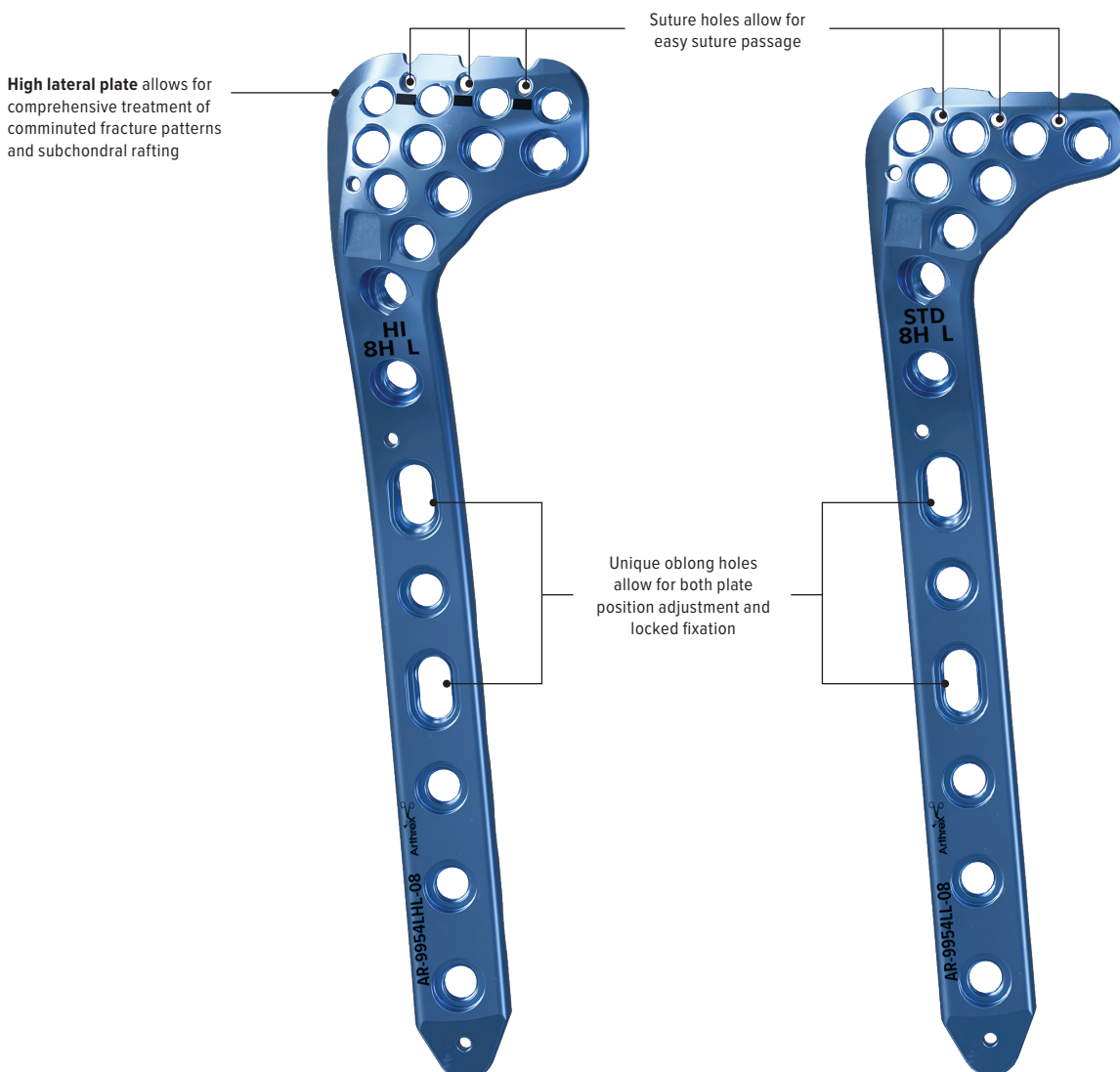
Intuitive color-coded instrumentation simplifies the surgical process, while specialized tools for percutaneous screw insertion aid in minimally invasive procedures. Strategically located eyelets for soft-tissue fixation are designed to facilitate needle passing both before and after the plate is positioned on the bone.

Supported by Arthrex biologics offerings and soft-tissue anchors, the VA Proximal Tibial Plating System provides comprehensive solutions for optimal patient outcomes.

## Features and Benefits

### Lateral Plate

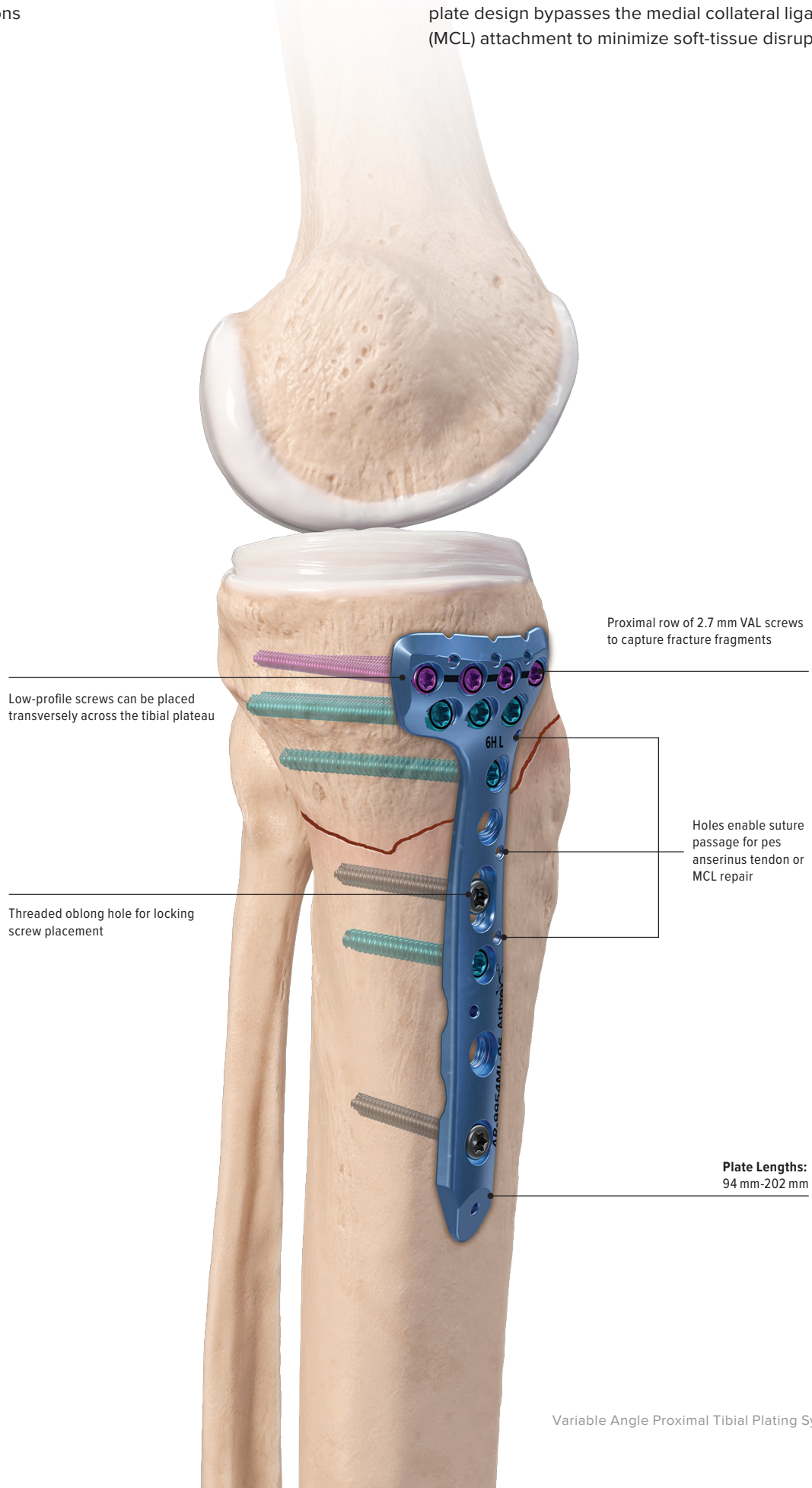
- › Left and right plates available in 4- to 16-hole options
- › Percutaneous instrumentation allows for streamlined placement of distal screws, without requiring a jig
- › Screw trajectory is optimized for multidirectional screws and to avoid overlapping
- › Optimized plate contour design features a single, optimized bend region for anatomical fit



## Features and Benefits

### Medial Plate

- > Left and right plates available in 6-, 8-, 10-, 12-, and 14-hole options
- > Contoured for optimal fit on the anterior medial tibia, the plate design bypasses the medial collateral ligament (MCL) attachment to minimize soft-tissue disruption

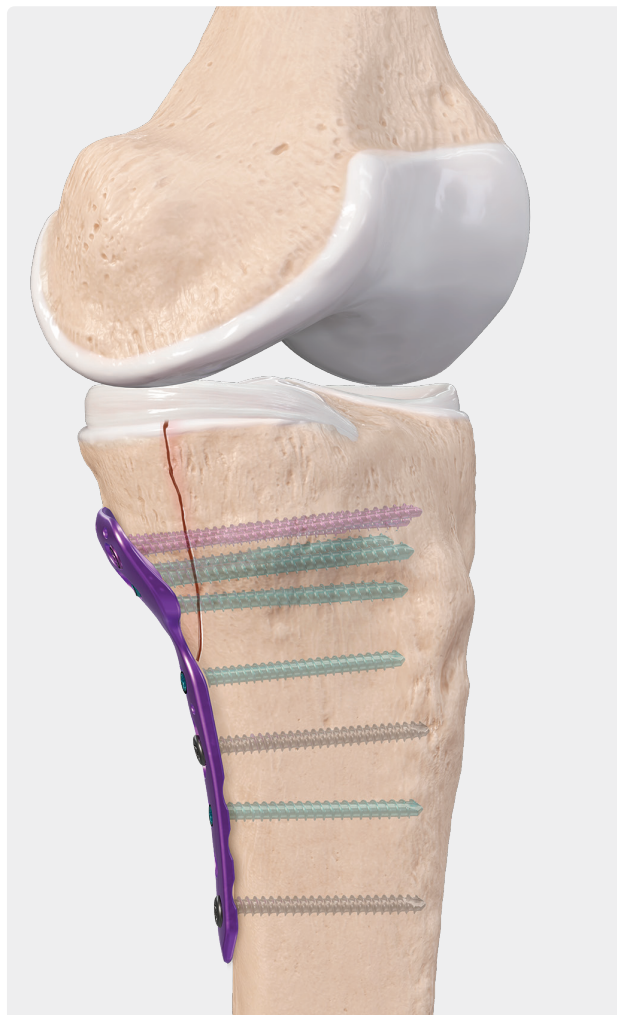


## Features and Benefits

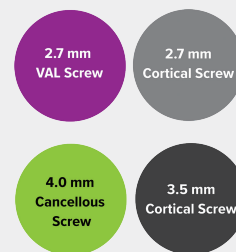
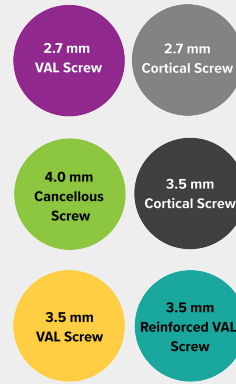
### Posteromedial Plate

- › Universal 5-, 7-, and 10-hole plate options are compatible for both left- and right-sided fractures
- › Plate lengths: 87 mm-137 mm

- › In situ plate bending enables patient-specific contouring and fracture compression



## Screw Compatibility

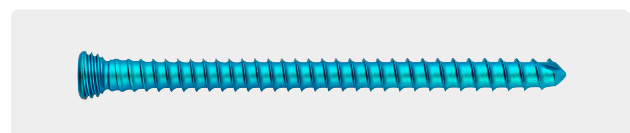
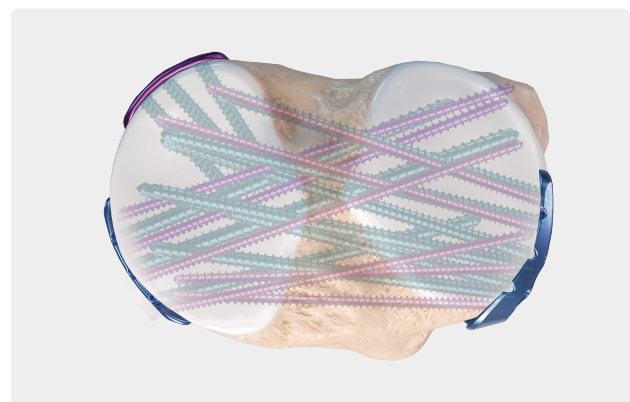


### KreuLock™ Locking Compression Screws

KreuLock screws combine the same proven variable-stepped pitch technology found in the Compression FT screws and also have a locking head.

- › Compress fractures and bony fragments and bring the plate to the bone while also locking into the plate
- › Saves time—may eliminate the need to use a nonlocking screw and later replace it with a locking screw
- › Customizable universal tray can fit two caddies

The VA proximal tibia plates are compatible with the 2.7 mm and 3.5 mm KreuLock screws, providing variable-angle fixation and enhanced coverage of the tibial plateau.



Reinforced 3.5 mm VAL KreuLock Screw

## Patient Positioning

Patients are often positioned supine with the operative leg elevated to facilitate both exposure and fluoroscopy. Patients requiring posteromedial or direct posterior approaches may be positioned supine (with the operative side frog-legged) or prone.



## Surgical Approaches

### Articular Surface Reduction

Reduce articular fracture fragments using image intensification and direct visualization when possible. The NanoScope™ camera enhances intra-articular reduction with superior precision. After reduction, provisional fixation can be achieved using independent K-wires placed flush across the plateau to avoid interference with plate insertion. Plate-integrated K-wire holes support provisional reduction and aid in positioning.



NanoNeedle™ scope 2.0

### Anterolateral Approach

This is the primary approach for lateral tibial plateau fractures, offering excellent visualization of the lateral joint, metaphysis, and tibial shaft if needed. Begin with a longitudinal incision along the lateral aspect of the knee, starting just proximal to the joint line and extending distally. This approach allows for clear visualization of the lateral articular surface and metaphysis, and can be extended for shaft involvement. Perform a submeniscal arthrotomy to view the joint surface and assess reduction as needed. Take care to avoid injury to the lateral meniscus and the common peroneal nerve.

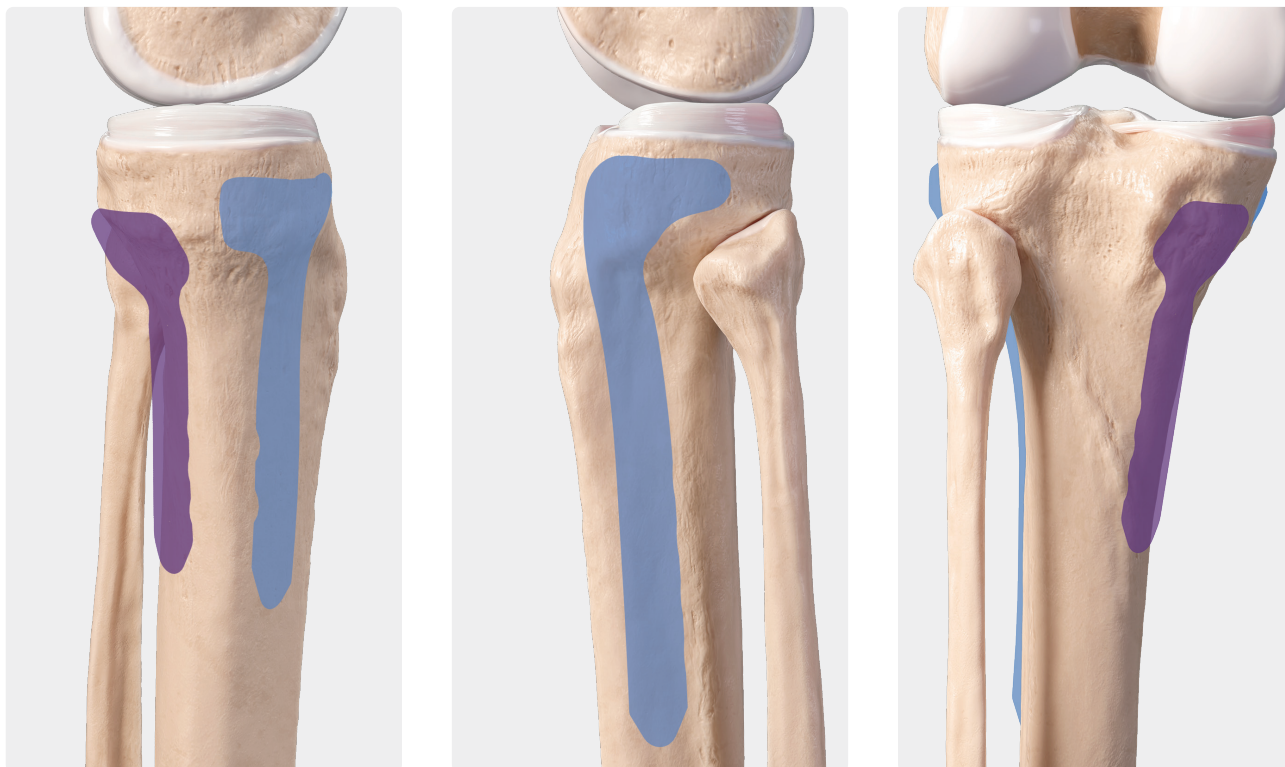
### Posteromedial Approach

Used for fractures involving the posteromedial tibial plateau. Make a longitudinal incision along the posteromedial aspect of the knee, starting just posterior to the medial epicondyle and extending distally along the posteromedial border of the tibia. This approach provides direct access to posteromedial fragments. Be mindful of the saphenous nerve and vein, as well as the popliteal vessels and tibial nerve.

### Dual-Incision Technique

For bicondylar tibial plateau fractures, a combination of anterolateral and posteromedial incisions may be helpful. This technique offers comprehensive access to both the lateral and medial aspects of the tibial plateau, facilitating optimal reduction and fixation of complex fracture patterns.

## Technique Steps



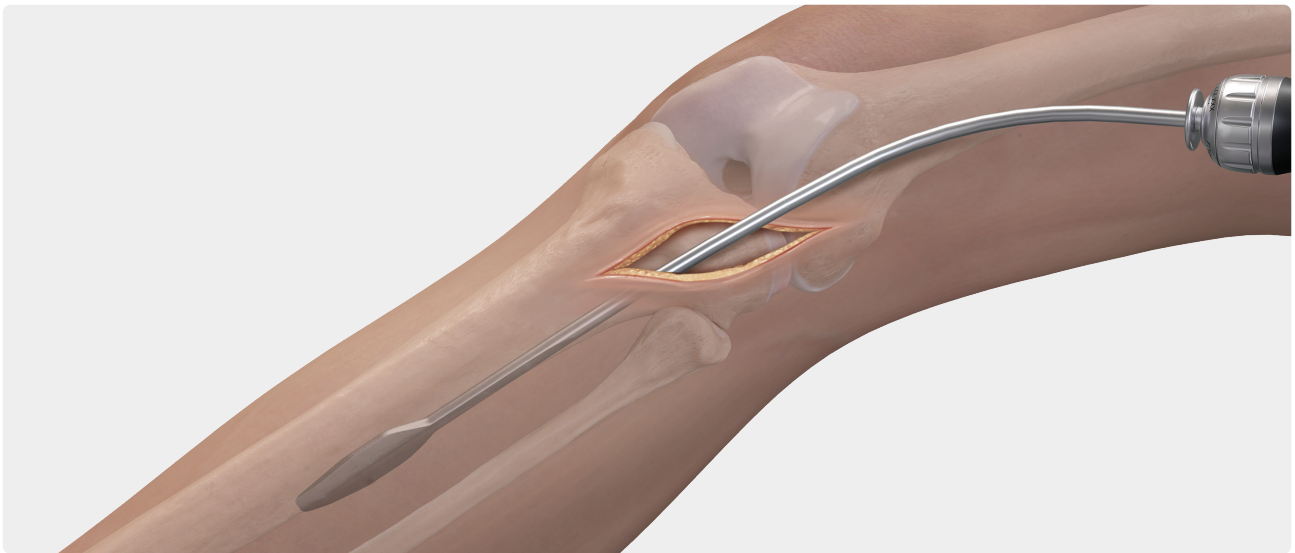
1

Select the appropriate plate based on the location of the injury.



| **Note:** Optional plate templates are available to assist with implant selection.

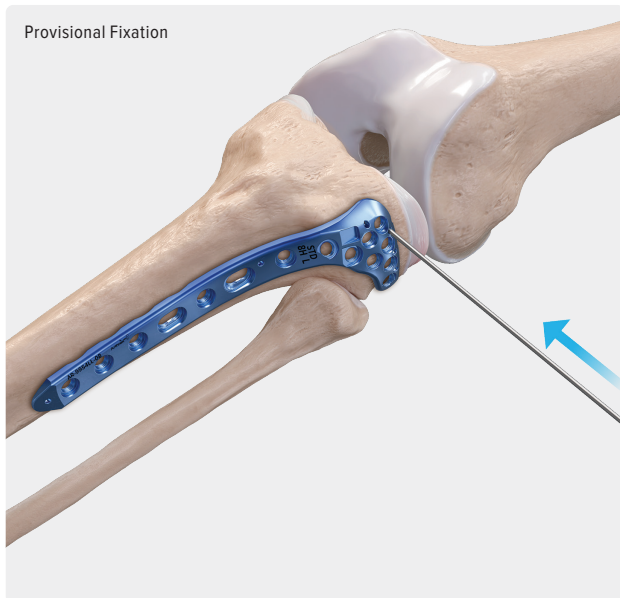
For lateral plates, choose between standard and high plates depending on the fracture pattern and fixation needs. Consider using a high plate when additional articular support is desired.



**2**

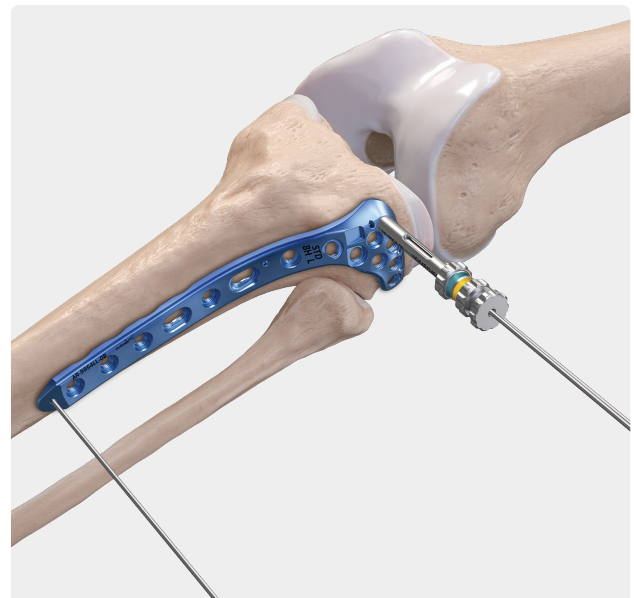
Use a submuscular tissue elevator to create a path between the anterior tibial muscle and the periosteum prior to plate insertion.

Insert the plate, advancing it distally while keeping the distal end in constant contact with the bone. Carefully position the plate on the condyle and align the distal portion using either fluoroscopic guidance or direct palpation.



**3a**

**K-Wire Fixation**



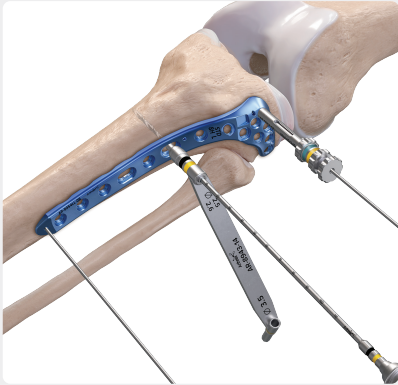
**3b**

**Locking Drill Guide**

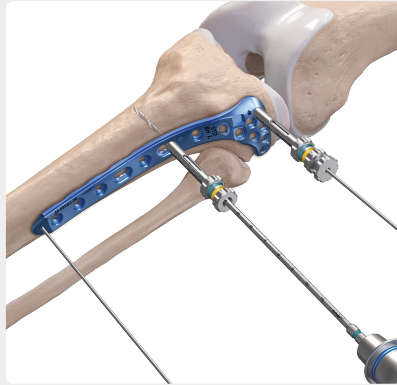
A 3.5 mm locking drill guide with a 1.6 mm K-wire sleeve insert may be threaded into a proximal locking hole. A 1.6 mm K-wire is then inserted through the sleeve and into the bone. This technique provides a reproducible method for assessing and adjusting plate height and alignment relative to articular surface, while also serving as a provisional fixation point.

#### 4

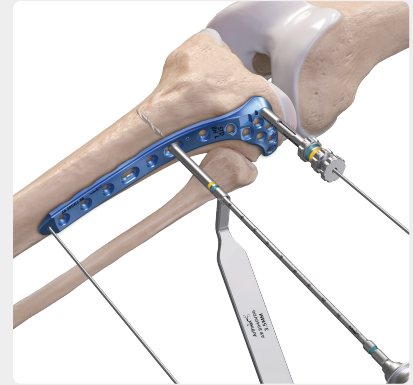
Insert a drill guide into the desired hole on the plate and drill for cortical, VAL, or cancellous screws. Ensure the drill guide is fully seated in the hole to maintain the correct trajectory. Drill under fluoroscopic guidance to confirm appropriate depth and trajectory.



Option A: Drill guide, 2.5 mm/3.5 mm



Option B: Standard 3.5 mm Locking Drill Guide



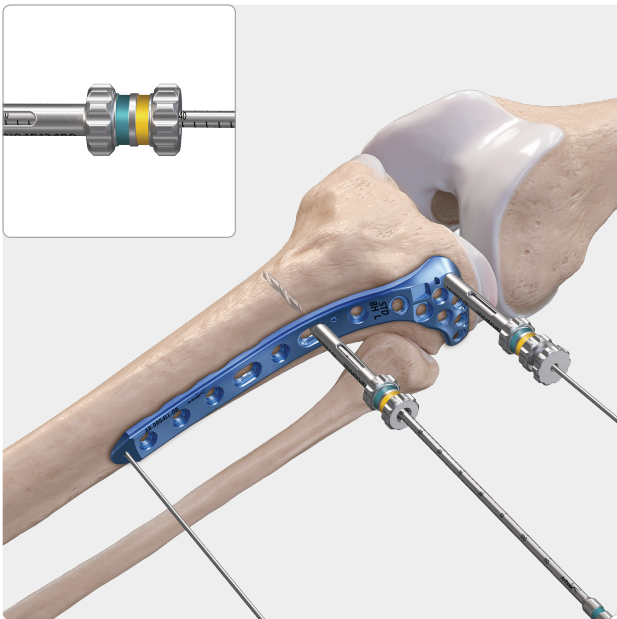
Option C: VAL Drill Guide, Double-Ended

**Note:** Several drill guide options are available, depending on surgeon preference and screw type.

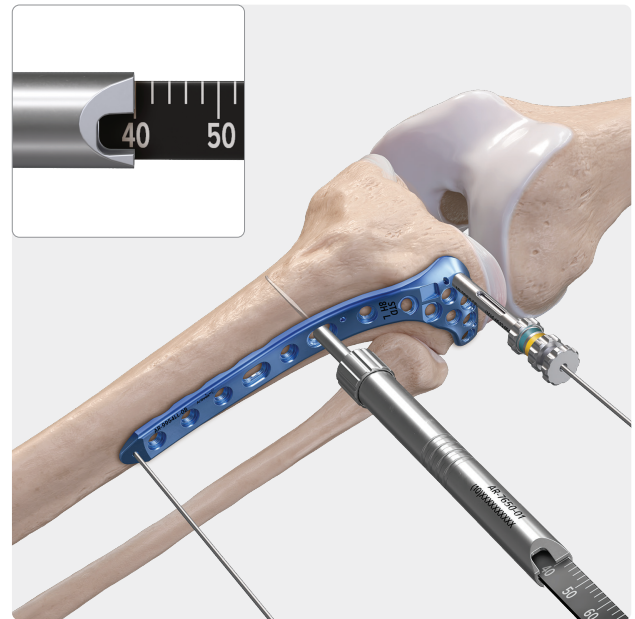
Screw Type	Drill Size
Low-profile cortical screw, 3.5 mm, Ti	2.5 mm
VAL KreuLock™ screw, 3.5 mm	2.5 mm
VAL KreuLock compression screw, 3.5 mm, Ti, reinforced	2.8 mm
VAL screw, 3.5 mm, Ti, reinforced	2.8 mm
Low-profile cancellous screw, 4.0 mm, Ti	2.5 mm

#### 5

Measure for screw depth. After drilling, the screw length can be determined using one of the following methods:



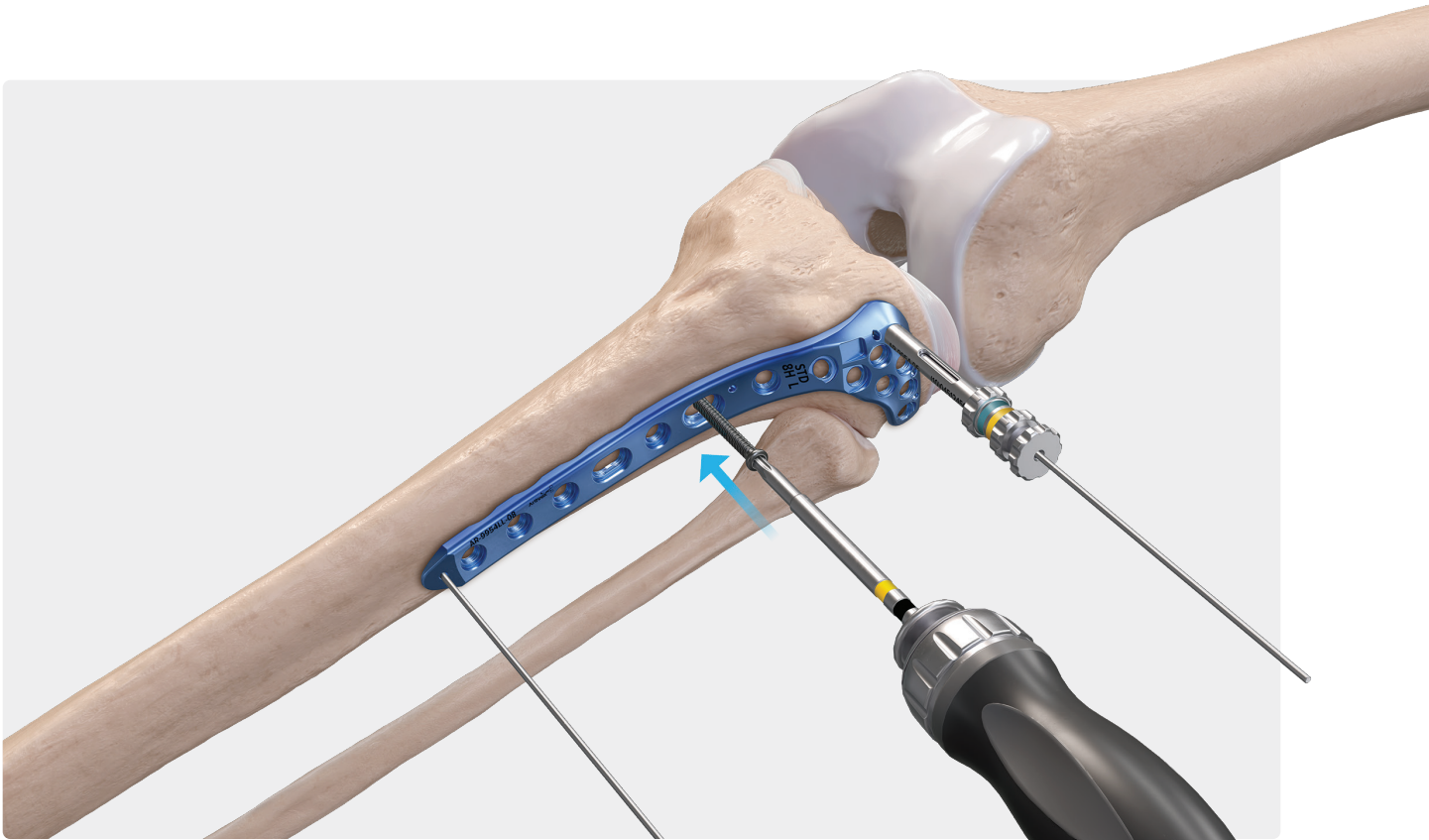
Method A: Calibrated Drill Bit



Method B: Depth Gauge

If a calibrated drill bit or calibrated K-wire is used, the screw length can be read directly from the markings on the drill. Alternatively, a depth gauge may be inserted into the drilled hole to measure the appropriate screw length. Ensure the gauge is fully seated against the near cortex for an accurate reading.

**Note:** The oblong slot is intended for nominal-angle locking screws only.



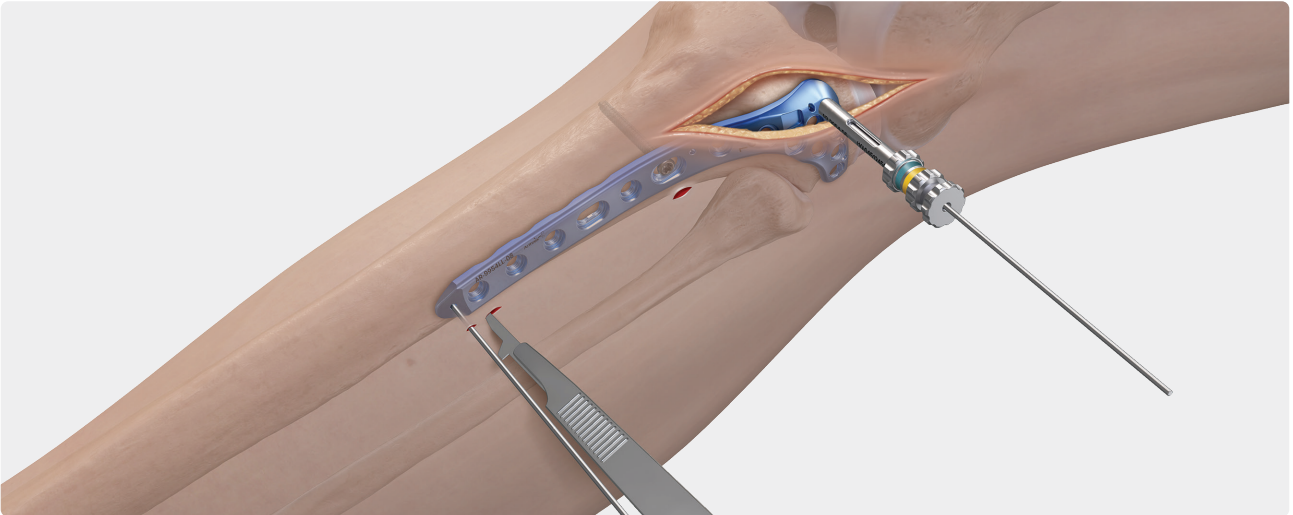
6

### Screw Insertion

Insert the desired 3.5 mm cortical or locking screw into the prepared hole using a T15 screwdriver, advancing under direct visualization or fluoroscopic guidance.

**Note:** For locking screws, ensure the screw head properly engages the plate's locking threads. Use a torque-limiting handle to avoid overtightening.

## Distal Screw Insertion: Percutaneous Technique With the PercuLock™ System



7a

Distal screw placement may be performed percutaneously to preserve soft-tissue integrity. Make a small stab incision over the anticipated location of the distal screw hole, guided by fluoroscopy or a plate template. Through this incision, introduce the PercuLock™ system, which consists of the following:



Minimally Invasive Tissue Sleeve



Drill Guide, Threaded, Long, 3.5 mm

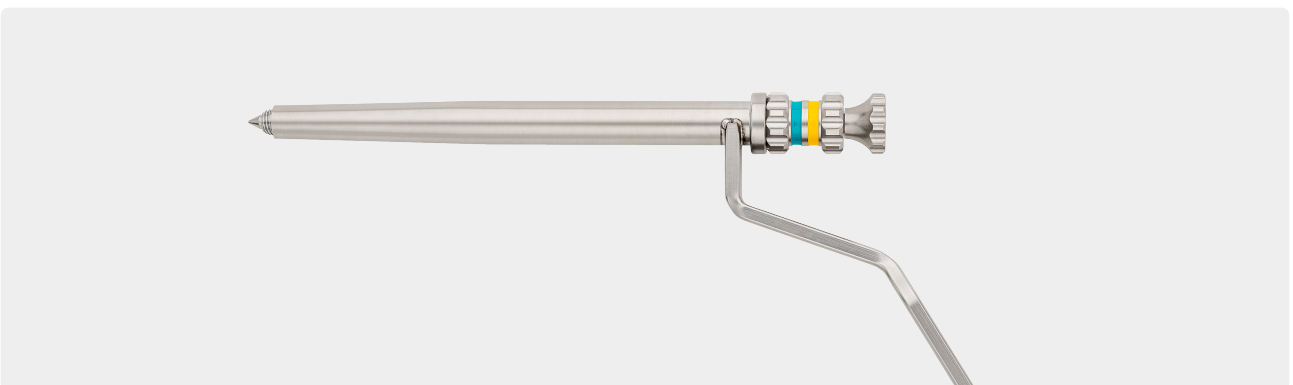
OR



Drill Guide, Nonthreaded, Long, 3.5 mm

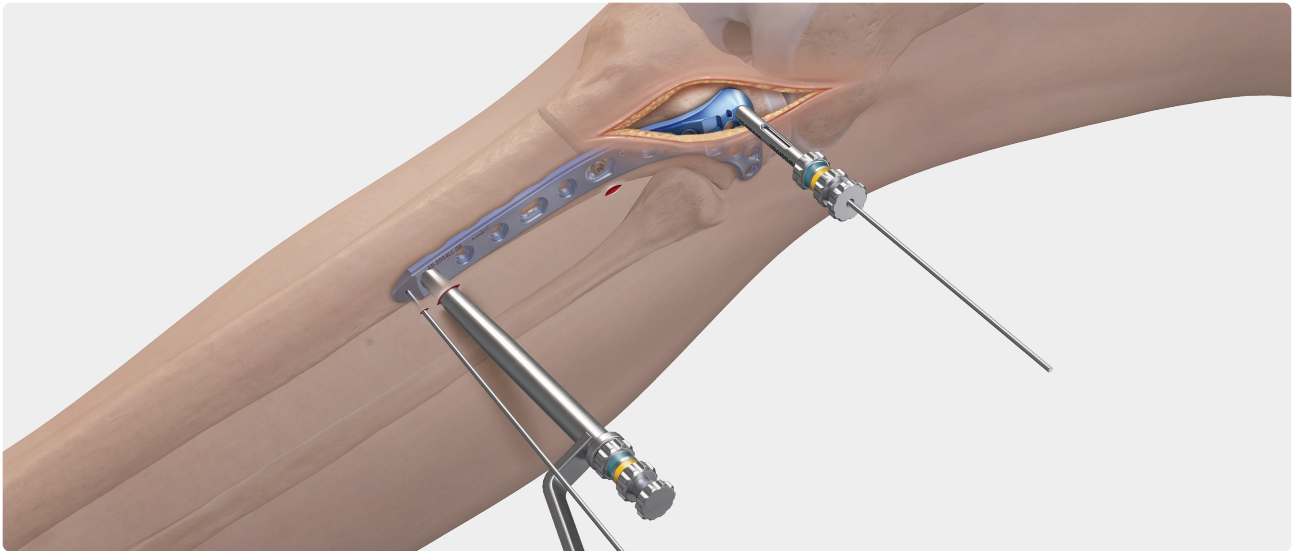


Tissue Sleeve Trocar, Long



PercuLock System

**Note:** Screws inserted in the oblong slot are intended to be placed at a nominal angle only.



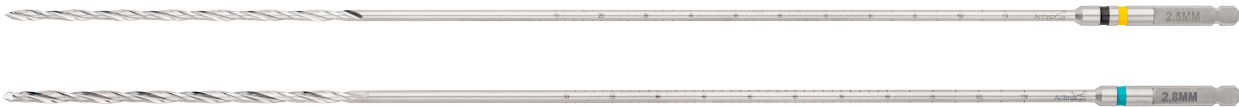
**7b**

Advance the PercuLock™ system through the incision until the sleeve is aligned with the desired plate hole. The drill guide should then be threaded into the plate hole to ensure secure engagement and maintain the correct trajectory.

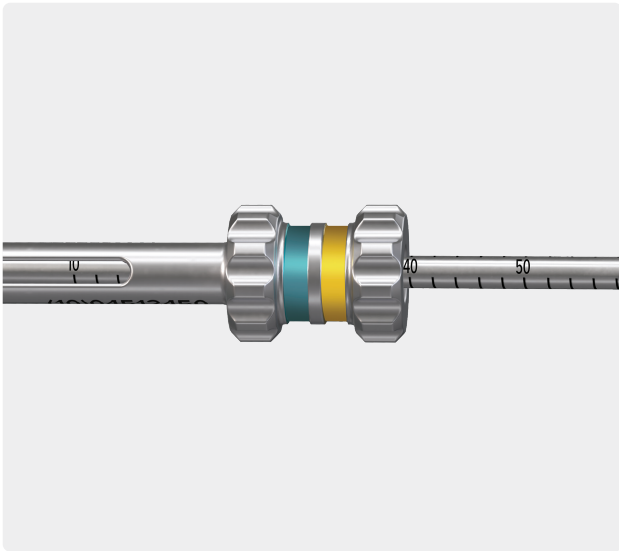
**7c**

Once the drill guide is fully seated, remove the trocar. Proceed with drilling through the guide using one of the following:

- > 2.5 mm drill bit for 3.5 mm cortical screws
- > 2.8 mm drill bit for 3.5 mm VAL screws



| **Note:** Drill under fluoroscopic guidance to confirm appropriate depth and trajectory.



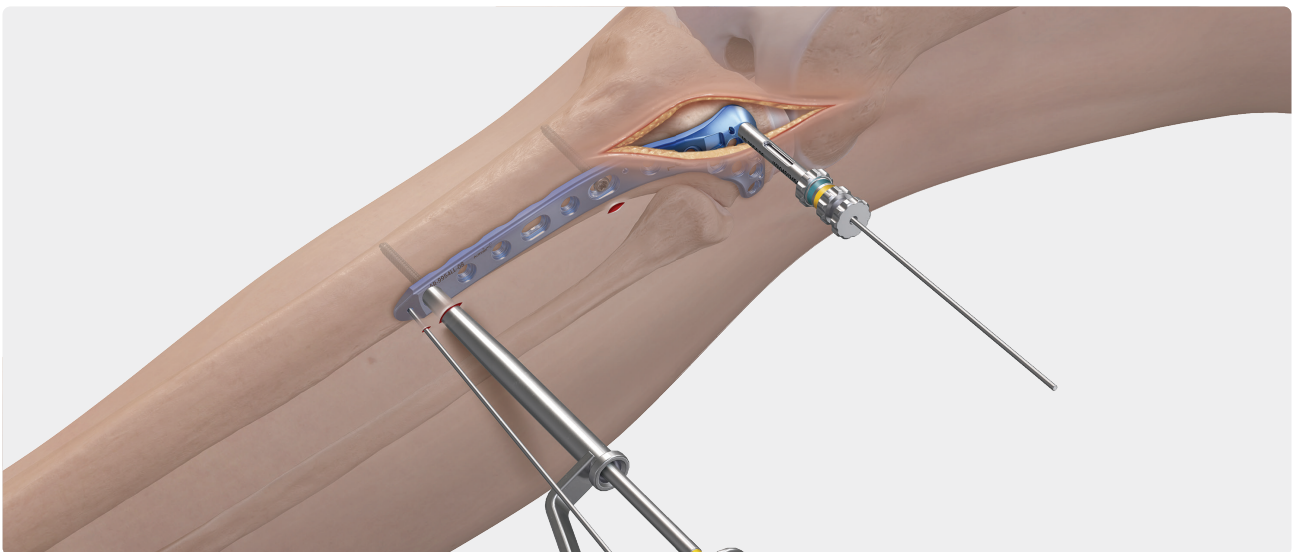
**7d**

Measure for screw length using the calibrated drill bit. The depth can be read directly from the markings on the drill shaft at the point where it exits the tissue sleeve.



**7e**

Alternatively, remove the drill guide and insert the minimally invasive depth gauge through the tissue sleeve to measure the appropriate screw length. Ensure the gauge is fully seated against the near cortex for an accurate measurement.

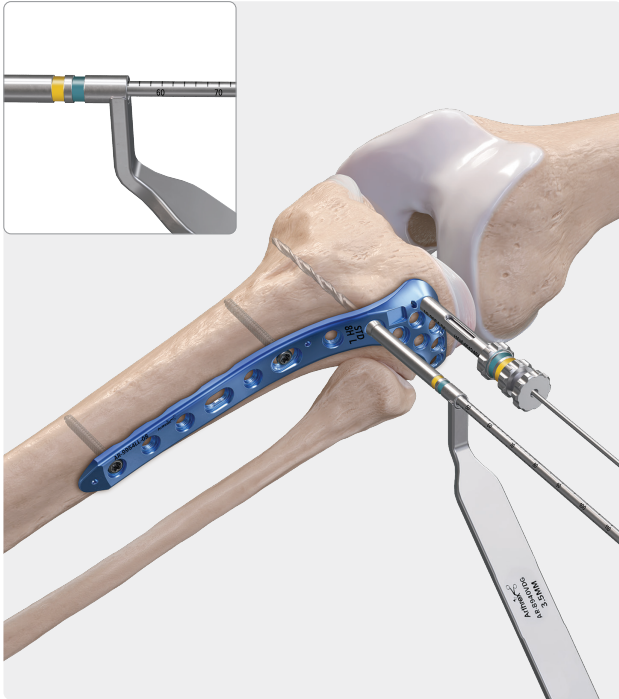


**7f**

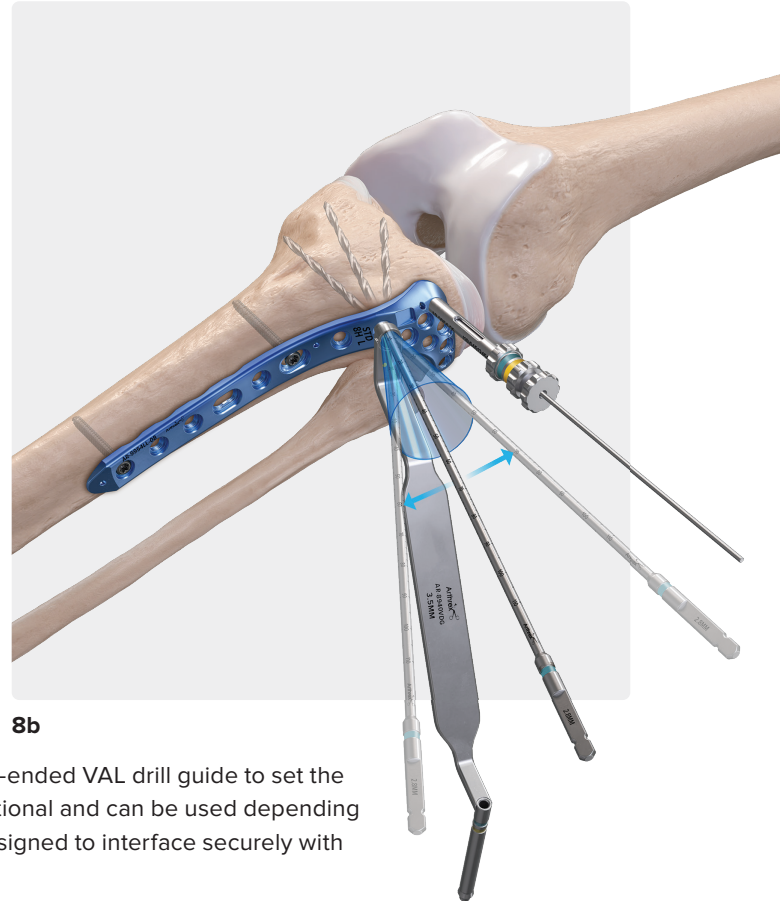
With the minimally invasive tissue sleeve remaining in place and the appropriate screw length determined, proceed with screw insertion.

Attach the selected 3.5 mm cortical or locking screw to the long T15 driver shaft. Advance the screw through the tissue sleeve and into the plate hole, maintaining alignment with the predrilled trajectory.

## Insert VAL Screws



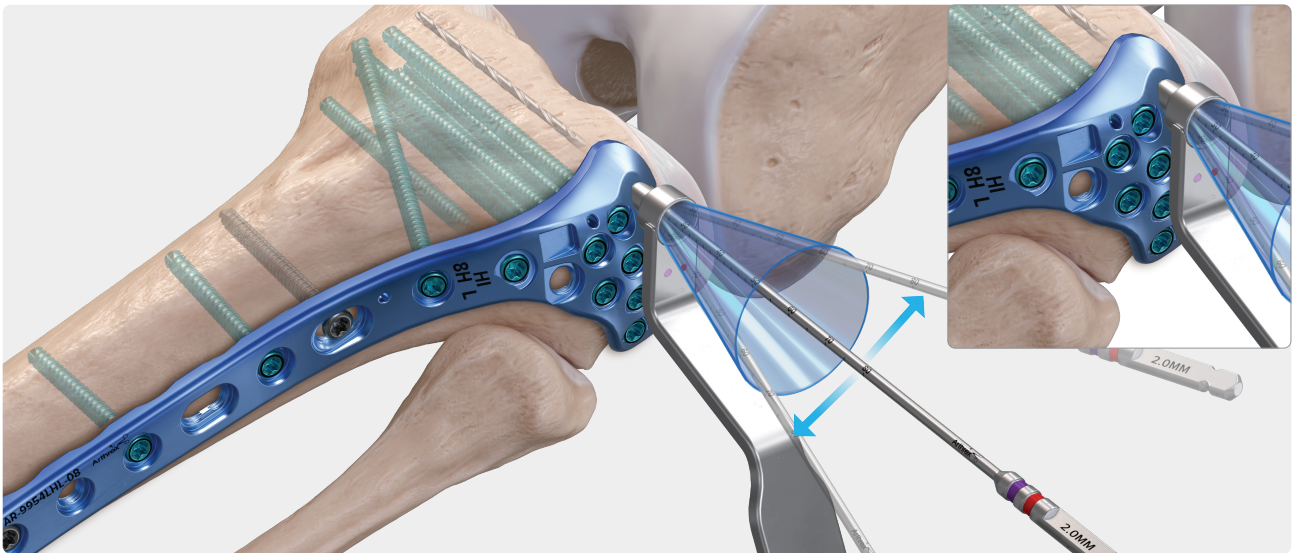
8a



8b

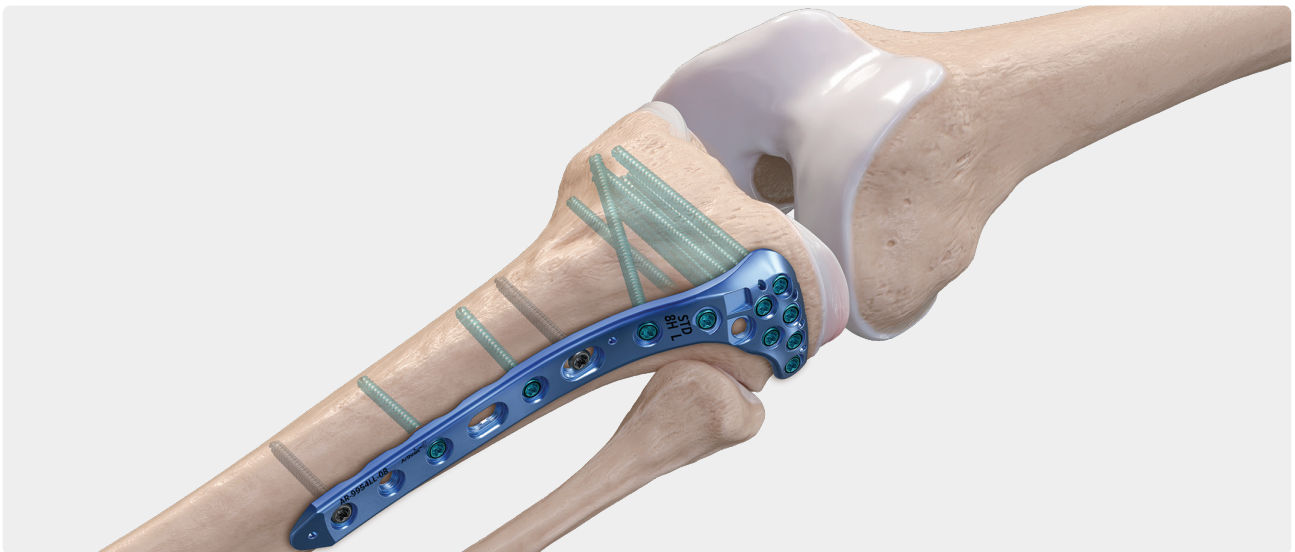
For proximal fixation with 3.5 mm VAL screws, use the double-ended VAL drill guide to set the desired screw trajectory. Both ends of the drill guide are functional and can be used depending on the surgeon's preferred angle and access. The guide is designed to interface securely with the plate's VAL holes.

The VAL locking plate holes allow for a 30° cone of angulation, providing 15° of variable-angle capability in any direction from the nominal axis. Once the drill guide is seated in the desired proximal hole, drill using a 2.8 mm drill bit for VAL screws. Maintain the desired trajectory within the allowable angulation range. Confirm the trajectory and depth under fluoroscopy.



**8c**

For locking screws, confirm that the screw head fully seats and locks into the plate. Use a torque-limiting handle to avoid overtightening.

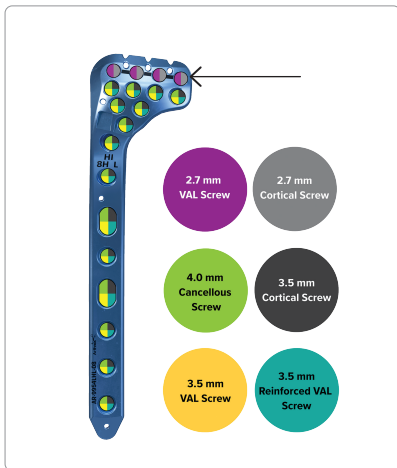


**8d**

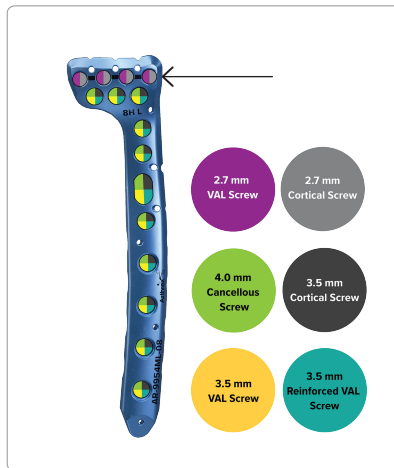
Insert the remaining 3.5 mm screws. The steps of drilling, measuring, and screw insertion may be repeated as necessary to achieve stable and anatomically appropriate fixation across both the proximal and distal segments of the construct.

## 2.7 Screw Placement

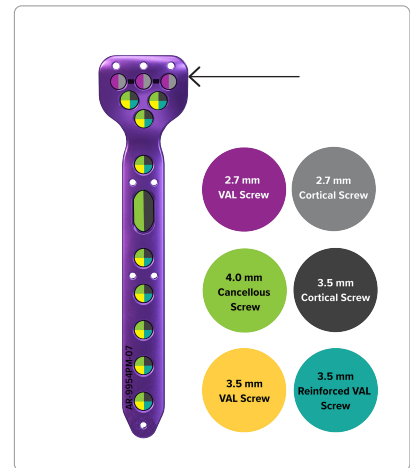
As shown below, specific regions of the plating system may be used for 2.7 mm screws.



Top Row of the High Lateral Plate



Top Row of the Medial Plate

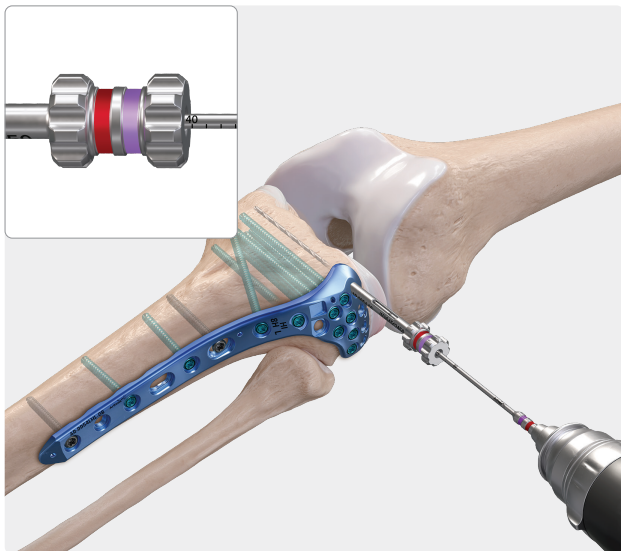


Top Row of the Posteromedial Plate

These proximal rafting screws are designed to allow for fixation near the joint line while minimizing the risk of intra-articular penetration. The smaller screw diameter also facilitates placement in tighter anatomical corridors without compromising construct stability. Attach one of the three following drill guides in steps 9a-9c to the proximal row of plates.



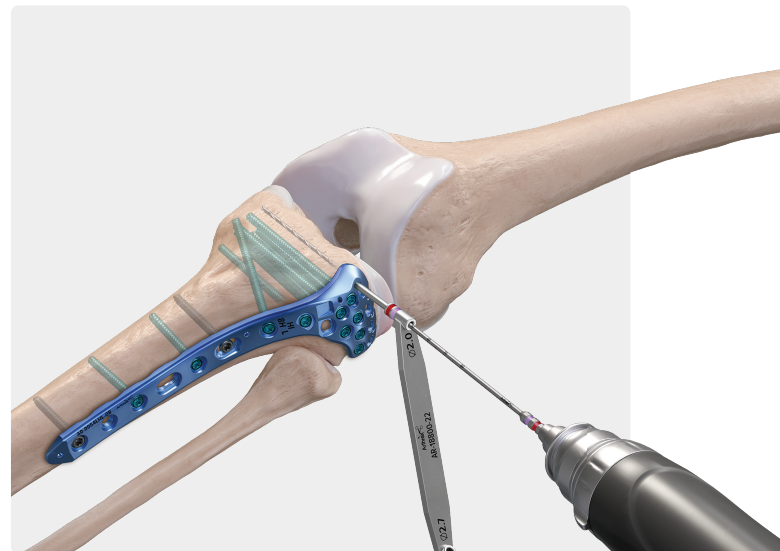
**Note:** 2.7 mm screw rows are indicated by black lines on all plates.



9a

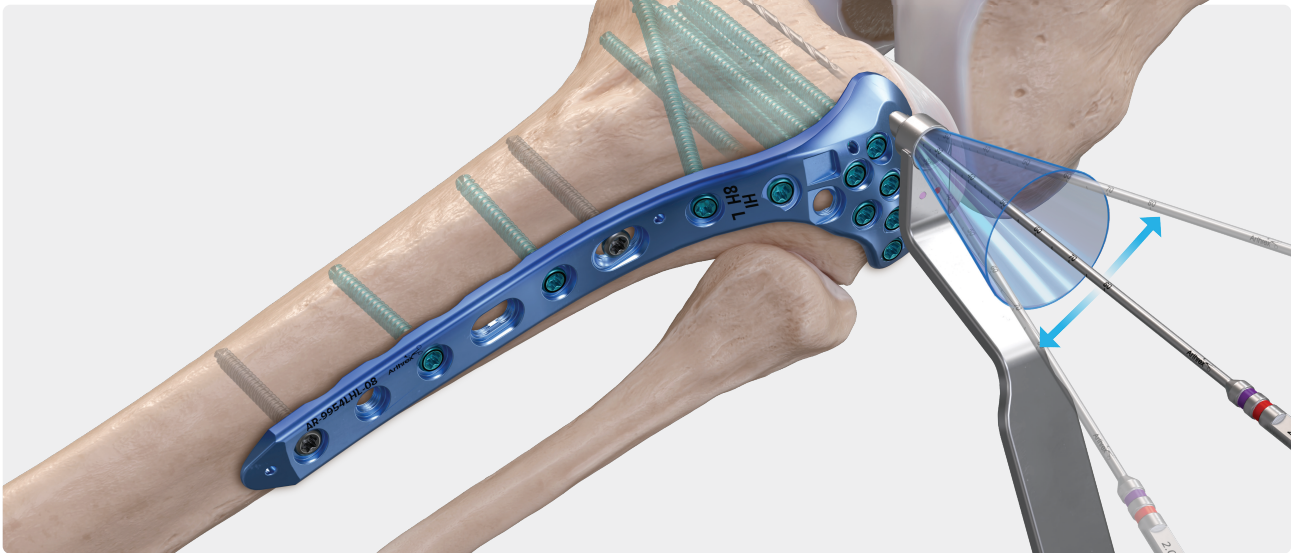
Option A: 2.7 mm Locking Drill Guide

Using the calibrated 2.0 mm drill bit, drill for the 2.7 mm screw.



9b

Option B: 2.0 mm/2.7 mm Drill Guide



9c

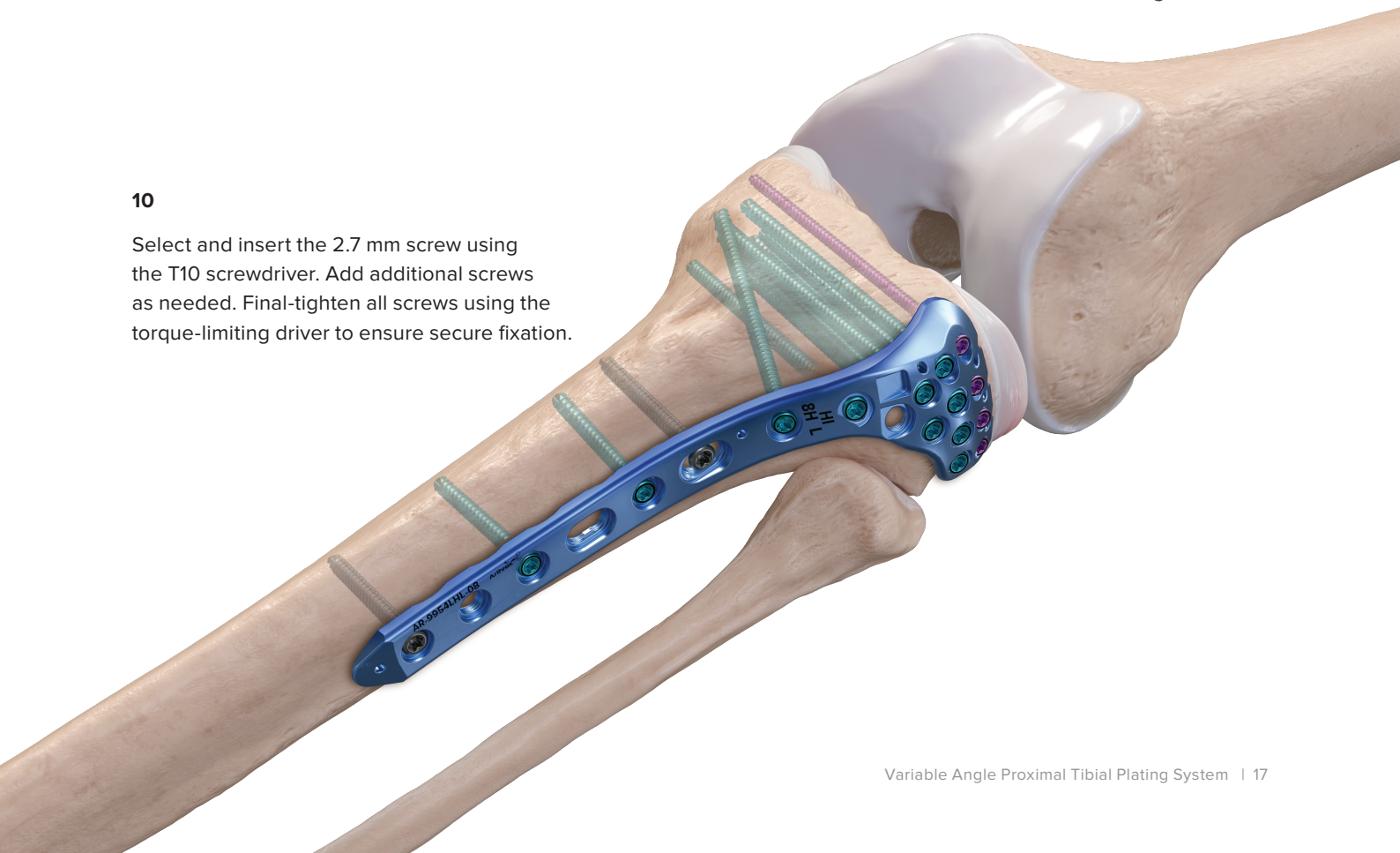
Option C: VAL Drill Guide, Double-Ended, 2.7 mm

Measure and insert 2.7 mm screws. After drilling, remove the drill and measure the required screw length. If using the locking drill guide or the VAL drill guide, the calibrated drill bit can be used as a depth indicator. Alternatively, a depth gauge may be inserted through the drill guide to confirm the appropriate screw length.

**Note:** If using VAL screws, a 0.8 Nm torque-limiting handle is available to ensure proper seating without overtightening.

10

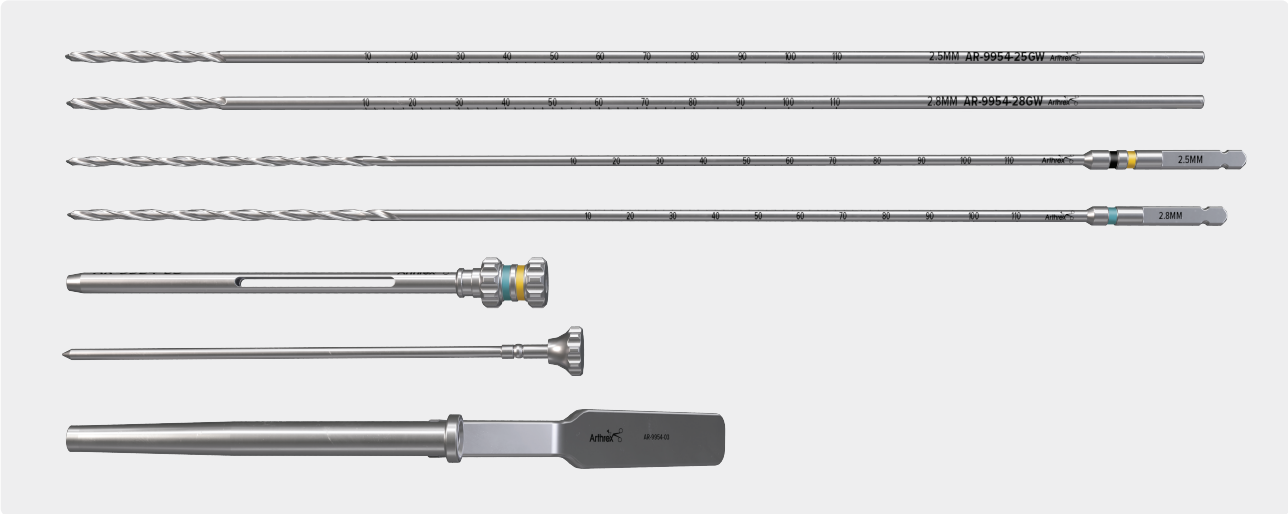
Select and insert the 2.7 mm screw using the T10 screwdriver. Add additional screws as needed. Final-tighten all screws using the torque-limiting driver to ensure secure fixation.



# Instrumentation



3.5 mm/4.0 mm Screw Instrumentation (standard length)



3.5 mm/4.0 mm Screw Instrumentation (long length/PercuLock™ system)



2.7 mm Screw Instrumentation

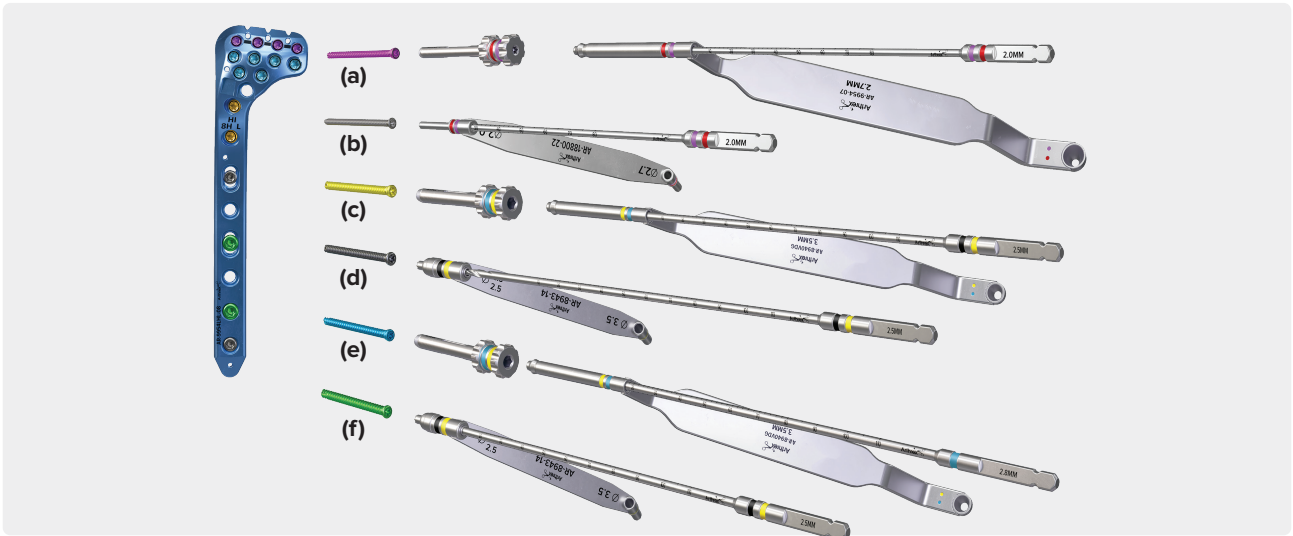


Plate and Screw Sizing Insights: 2.7 mm KreuLock™ Locking Screw (a), 2.7 mm Cortical Screw (b), Reinforced VAL Screw (c), 3.5 mm Cortical Screw (d), 3.5 mm Reinforced VAL Screw (e), and 4.0 mm Cancellous Screw (f)



Arthrex VA Proximal Tibial Plating System AR-9954S



Arthrex 2.7 mm/3.5 mm General Instrument Tray, AR-18900S-GEN, AR-18900C-GEN

Screw Size	Instrument Color	Drill Bit Size	Lag Drill Size	Screwdriver Size	Plate Hole Size
Titanium					
2.7 mm VAL	Purple	2.0 mm	2.7 mm	T10	2.7 mm/3.0 mm
2.7 mm KreuzLock™ VAL	Purple	2.0 mm	2.7 mm	T10	2.7 mm/3.0 mm
3.0 mm VAL	Orange	2.0 mm	3.0 mm	T10	2.7 mm/3.0 mm
3.0 mm KreuzLock VAL	Orange	2.0 mm	3.0 mm	T10	2.7 mm/3.0 mm
3.0 mm Hybrid VAL	Pink	2.5 mm	3.5 mm	T10	2.7 mm/3.0 mm
3.0 mm Hybrid KreuzLock VAL	Pink	2.5 mm	3.5 mm	T10	2.7 mm/3.0 mm
3.5 mm VAL	Yellow	2.5 mm	3.5 mm	T15	3.5 mm
3.5 mm KreuzLock VAL	Yellow	2.5 mm	3.5 mm	T15	3.5 mm
3.5 mm Reinforced VAL	Teal	2.8 mm	3.5 mm	T15	3.5 mm
3.5 mm KreuzLock Reinforced VAL	Teal	2.8 mm	3.5 mm	T15	3.5 mm

## Plate Length Overview

Part Number	Description	Plate Length
Standard Lateral Plates		
AR-9954LL-04	Lateral proximal tibia plate, left, std, 4H	78 mm
AR-9954LL-06	Lateral proximal tibia plate, left, std, 6H	104 mm
AR-9954LL-08	Lateral proximal tibia plate, left, std, 8H	130 mm
AR-9954LL-10	Lateral proximal tibia plate, left, std, 10H	155 mm
AR-9954LL-12	Lateral proximal tibia plate, left, std, 12H	181 mm
AR-9954LL-14	Lateral proximal tibia plate, left, std, 14H	207 mm
AR-9954LL-16	Lateral proximal tibia plate, left, std, 16H	233 mm
AR-9954LR-04	Lateral proximal tibia plate, right, std, 4H	78 mm
AR-9954LR-06	Lateral proximal tibia plate, right, std, 6H	104 mm
AR-9954LR-08	Lateral proximal tibia plate, right, std, 8H	130 mm
AR-9954LR-10	Lateral proximal tibia plate, right, std, 10H	155 mm
AR-9954LR-12	Lateral proximal tibia plate, right, std, 12H	181 mm
AR-9954LR-14	Lateral proximal tibia plate, right, std, 14H	207 mm
AR-9954LR-16	Lateral proximal tibia plate, right, std, 16H	233 mm
High Lateral Plates		
AR-9954LHL-04	Lateral proximal tibia plate, left, high, 4H	84 mm
AR-9954LHL-06	Lateral proximal tibia plate, left, high, 6H	110 mm
AR-9954LHL-08	Lateral proximal tibia plate, left, high, 8H	136 mm
AR-9954LHL-10	Lateral proximal tibia plate, left, high, 10H	161 mm
AR-9954LHL-12	Lateral proximal tibia plate, left, high, 12H	187 mm
AR-9954LHL-14	Lateral proximal tibia plate, left, high, 14H	213 mm
AR-9954LHL-16	Lateral proximal tibia plate, left, high, 16H	239 mm
AR-9954LHR-04	Lateral proximal tibia plate, right, high, 4H	84 mm
AR-9954LHR-06	Lateral proximal tibia plate, right, high, 6H	110 mm
AR-9954LHR-08	Lateral proximal tibia plate, right, high, 8H	136 mm
AR-9954LHR-10	Lateral proximal tibia plate, right, high, 10H	161 mm
AR-9954LHR-12	Lateral proximal tibia plate, right, high, 12H	187mm
AR-9954LHR-14	Lateral proximal tibia plate, right, high, 14H	213 mm
AR-9954LHR-16	Lateral proximal tibia plate, right, high, 16H	239 mm
Medial Plates		
AR-9954ML-06	Medial proximal tibia plate, left, 6H	94 mm
AR-9954ML-08	Medial proximal tibia plate, left, 8H	122 mm
AR-9954ML-10	Medial proximal tibia plate, left, 10H	149 mm
AR-9954ML-12	Medial proximal tibia plate, left, 12H	175 mm
AR-9954ML-14	Medial proximal tibia plate, left, 14H	202 mm
AR-9954MR-06	Medial proximal tibia plate, right, 6H	94 mm
AR-9954MR-08	Medial proximal tibia plate, right, 8H	122 mm
AR-9954MR-10	Medial proximal tibia plate, right, 10H	149 mm
AR-9954MR-12	Medial proximal tibia plate, right, 12H	175 mm
AR-9954MR-14	Medial proximal tibia plate, right, 14H	202 mm
Medial Plates		
AR-9954PM-05	Posteromedial proximal tibia plate, 5H	87 mm
AR-9954PM-07	Posteromedial proximal tibia plate, 7H	107 mm
AR-9954PM-10	Posteromedial proximal tibia plate, 10H	137 mm

## Proximal Tibia Biologic Augmentation Options



### Quickset™ Calcium Phosphate Cement

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

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



### BoneSync™ Bone Void Fillers

BoneSync cement, 3 cc	ABS-3103
BoneSync cement, 5 cc	ABS-3105
BoneSync putty, 5 cc	ABS-3205
BoneSync putty, 10 cc	ABS-3210
BoneSync putty, 15 cc	ABS-3215

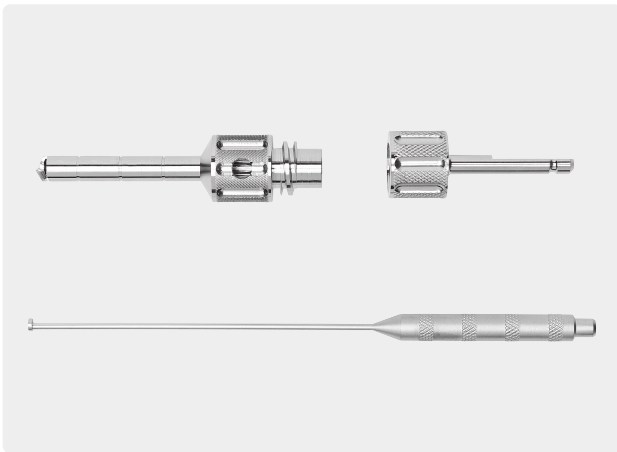
BoneSync bone void fillers provide an osteoconductive scaffold and contain type I collagen, allowing the grafts to be hydrated with biologic fluids such as bone marrow aspirate, to optimize bone remodeling potential. This versatile matrix can bring volume or moldability to cases while offering unique handling characteristics.



**AlloSync™ Pure Matrix**

AlloSync Pure, 1 cc	ABS-2010-01
AlloSync Pure, 2.5 cc	ABS-2010-02

AlloSync Pure demineralized bone matrix is derived from 100% allograft bone. Surgeons can adjust the viscosity of AlloSync Pure bone matrix to have a more flowable or putty-like consistency based on hydration ratio to readily mold into various bone voids or fracture patterns.



**OsteoAuger™ Bone Graft Harvesting System**

OsteoAuger harvester, 6 mm	ABS-8000-06
OsteoAuger harvester, 8 mm	ABS-8000-08
OsteoAuger harvester, 10 mm	ABS-8000-10

OsteoAuger harvesters are available in 6 mm, 8 mm, and 10 mm diameters to harvest for a variety of anatomic locations. The sharp tip morselizes autologous bone for use at the point of care.

## Ordering Information

<b>VA Proximal Tibia Plating System</b>		<b>AR-9954S</b>	
<b>Lateral Nonsterile Implants</b>			
Lateral proximal tibia plate, right, standard, 4-hole		AR-9954LR-04	
Lateral proximal tibia plate, right, standard, 6-hole		AR-9954LR-06	
Lateral proximal tibia plate, right, standard, 8-hole		AR-9954LR-08	
Lateral proximal tibia plate, right, standard, 10-hole		AR-9954LR-10	
Lateral proximal tibia plate, right, standard, 12-hole		AR-9954LR-12	
Lateral proximal tibia plate, right, standard, 14-hole		AR-9954LR-14	
Lateral proximal tibia plate, right, standard, 16-hole		AR-9954LR-16	
Lateral proximal tibia plate, right, high, 4-hole		AR-9954LHR-04	
Lateral proximal tibia plate, right, high, 6-hole		AR-9954LHR-06	
Lateral proximal tibia plate, right, high, 8-hole		AR-9954LHR-08	
Lateral proximal tibia plate, right, high, 10-hole		AR-9954LHR-10	
Lateral proximal tibia plate, right, high, 12-hole		AR-9954LHR-12	
Lateral proximal tibia plate, right, high, 14-hole		AR-9954LHR-14	
Lateral proximal tibia plate, right, high, 16-hole		AR-9954LHR-16	
Lateral proximal tibia plate, left, standard, 4-hole		AR-9954LL-04	
Lateral proximal tibia plate, left, standard, 6-hole		AR-9954LL-06	
Lateral proximal tibia plate, left, standard, 8-hole		AR-9954LL-08	
Lateral proximal tibia plate, left, standard, 10-hole		AR-9954LL-10	
Lateral proximal tibia plate, left, standard, 12-hole		AR-9954LL-12	
Lateral proximal tibia plate, left, standard, 14-hole		AR-9954LL-14	
Lateral proximal tibia plate, left, standard, 16-hole		AR-9954LL-16	
Lateral proximal tibia plate, left, high, 4-hole		AR-9954LHL-04	
Lateral proximal tibia plate, left, high, 6-hole		AR-9954LHL-06	
Lateral proximal tibia plate, left, high, 8-hole		AR-9954LHL-08	
Lateral proximal tibia plate, left, high, 10-hole		AR-9954LHL-10	
Lateral proximal tibia plate, left, high, 12-hole		AR-9954LHL-12	
Lateral proximal tibia plate, left, high, 14-hole		AR-9954LHL-14	
Lateral proximal tibia plate, left, high, 16-hole		AR-9954LHL-16	
<b>Medial Nonsterile Implants</b>			
Medial proximal tibia plate, right, 6-hole		AR-9954MR-06	
Medial proximal tibia plate, right, 8-hole		AR-9954MR-08	
Medial proximal tibia plate, right, 10-hole		AR-9954MR-10	
Medial proximal tibia plate, right, 12-hole		AR-9954MR-12	
Medial proximal tibia plate, right, 14-hole		AR-9954MR-14	
Medial proximal tibia plate, left, 6-hole		AR-9954ML-06	
Medial proximal tibia plate, left, 8-hole		AR-9954ML-08	
Medial proximal tibia plate, left, 10-hole		AR-9954ML-10	
Medial proximal tibia plate, left, 12-hole		AR-9954ML-12	
Medial proximal tibia plate, left, 14-hole		AR-9954ML-14	
<b>Posteromedial Nonsterile Implants</b>			
Posteromedial proximal tibia plate, 5-hole		AR-9954PM-05	
Posteromedial proximal tibia plate, 7-hole		AR-9954PM-07	
Posteromedial proximal tibia plate, 10-hole		AR-9954PM-10	
<b>Lateral Sterile Implants</b>			
Lateral proximal tibia plate, right, standard, 4-hole, sterile		AR-9954LR-04S	
Lateral proximal tibia plate, right, standard, 6-hole, sterile		AR-9954LR-06S	
Lateral proximal tibia plate, right, standard, 8-hole, sterile		AR-9954LR-08S	
Lateral proximal tibia plate, right, standard, 10-hole, sterile		AR-9954LR-10S	
Lateral proximal tibia plate, right, standard, 12-hole, sterile		AR-9954LR-12S	
Lateral proximal tibia plate, right, standard, 14-hole, sterile		AR-9954LR-14S	
Lateral proximal tibia plate, right, standard, 16-hole, sterile		AR-9954LR-16S	
Lateral proximal tibia plate, right, high, 4-hole, sterile		AR-9954LHR-04S	
Lateral proximal tibia plate, right, high, 6-hole, sterile		AR-9954LHR-06S	
Lateral proximal tibia plate, right, high, 8-hole, sterile		AR-9954LHR-08S	
Lateral proximal tibia plate, right, high, 10-hole, sterile		AR-9954LHR-10S	
Lateral proximal tibia plate, right, high, 12-hole, sterile		AR-9954LHR-12S	
Lateral proximal tibia plate, right, high, 14-hole, sterile		AR-9954LHR-14S	
Lateral proximal tibia plate, right, high, 16-hole, sterile		AR-9954LHR-16S	
Lateral proximal tibia plate, left, standard, 4-hole, sterile		AR-9954LL-04S	
Lateral proximal tibia plate, left, standard, 6-hole, sterile		AR-9954LL-06S	
Lateral proximal tibia plate, left, standard, 8-hole, sterile		AR-9954LL-08S	
Lateral proximal tibia plate, left, standard, 10-hole, sterile		AR-9954LL-10S	
Lateral proximal tibia plate, left, standard, 12-hole, sterile		AR-9954LL-12S	
Lateral proximal tibia plate, left, standard, 14-hole, sterile		AR-9954LL-14S	
Lateral proximal tibia plate, left, standard, 16-hole, sterile		AR-9954LL-16S	
Lateral proximal tibia plate, left, high, 4-hole, sterile		AR-9954LHL-04S	
Lateral proximal tibia plate, left, high, 6-hole, sterile		AR-9954LHL-06S	
Lateral proximal tibia plate, left, high, 8-hole, sterile		AR-9954LHL-08S	
Lateral proximal tibia plate, left, high, 10-hole, sterile		AR-9954LHL-10S	
Lateral proximal tibia plate, left, high, 12-hole, sterile		AR-9954LHL-12S	
Lateral proximal tibia plate, left, high, 14-hole, sterile		AR-9954LHL-14S	
Lateral proximal tibia plate, left, high, 16-hole, sterile		AR-9954LHL-16S	
<b>Medial Sterile Implants</b>			
Medial proximal tibia plate, right, 6-hole, sterile		AR-9954MR-06S	
Medial proximal tibia plate, right, 8-hole, sterile		AR-9954MR-08S	
Medial proximal tibia plate, right, 10-hole, sterile		AR-9954MR-10S	
Medial proximal tibia plate, right, 12-hole, sterile		AR-9954MR-12S	
Medial proximal tibia plate, right, 14-hole, sterile		AR-9954MR-14S	
Medial proximal tibia plate, left, 6-hole, sterile		AR-9954ML-06S	
Medial proximal tibia plate, left, 8-hole, sterile		AR-9954ML-08S	
Medial proximal tibia plate, left, 10-hole, sterile		AR-9954ML-10S	
Medial proximal tibia plate, left, 12-hole, sterile		AR-9954ML-12S	
Medial proximal tibia plate, left, 14-hole, sterile		AR-9954ML-14S	

Posteromedial Sterile Implants	
Posteromedial proximal tibia plate, 5-hole, sterile	AR-9954PM-05S
Posteromedial proximal tibia plate, 7-hole, sterile	AR-9954PM-07S
Posteromedial proximal tibia plate, 10-hole, sterile	AR-9954PM-10S
Nonsterile Implants	
Trial, lateral proximal tibia plate, standard, right, 4H	AR-9954LR-04T
Trial, lateral proximal tibia plate, standard, right, 6H	AR-9954LR-06T
Trial, lateral proximal tibia plate, standard, right, 8H	AR-9954LR-08T
Trial, lateral proximal tibia plate, standard, left, 4H	AR-9954LL-04T
Trial, lateral proximal tibia plate, standard, left, 6H	AR-9954LL-06T
Trial, lateral proximal tibia plate, standard, left, 8H	AR-9954LL-08T
Trial, lateral proximal tibia plate, high, right, 4H	AR-9954LHR-04T
Trial, lateral proximal tibia plate, high, left, 4H	AR-9954LHL-04T
Trial, medial proximal tibia plate, right, 6H	AR-9954MR-06T
Trial, medial proximal tibia plate, right, 8H	AR-9954MR-08T
Trial, medial proximal tibia plate, right, 10H	AR-9954MR-10T
Trial, medial proximal tibia plate, left, 6H	AR-9954ML-06T
Trial, medial proximal tibia plate, left, 8H	AR-9954ML-08T
Trial, medial proximal tibia plate, left, 10H	AR-9954ML-10T
Trial, posteromedial proximal tibia plate, 5H	AR-9954PM-05T
Trial, posteromedial proximal tibia plate, 7H	AR-9954PM-07T
Bending iron, large	AR-9954-08
Arthrex Ti proximal tibia implant case	AR-9954C
Arthrex Ti proximal tibia implant case, lid	AR-9954C-01
Arthrex Ti proximal tibia screw caddy, VAL, KreuLock	AR-9954C-SC-VCL
Arthrex Ti proximal tibia screw caddy, VAL KreuLock, lid	AR-9954C-SC-VCL-01

#### VAL KreuLock™ Caddy (Qty. 4)

Cortical screw, 2.7 mm × 30 mm	AR-18827-30
Cortical screw, 2.7 mm × 32 mm	AR-18827-32
Cortical screw, 2.7 mm × 34 mm	AR-18827-34
Cortical screw, 2.7 mm × 36 mm	AR-18827-36
Cortical screw, 2.7 mm × 38 mm	AR-18827-38
Cortical screw, 2.7 mm × 40 mm	AR-18827-40
Cortical screw, 2.7 mm × 42 mm	AR-18827-42
Cortical screw, 2.7 mm × 44 mm	AR-18827-44
Cortical screw, 2.7 mm × 46 mm	AR-18827-46
Cortical screw, 2.7 mm × 48 mm	AR-18827-48
Cortical screw, 2.7 mm × 50 mm	AR-18827-50
Cortical screw, 2.7 mm × 52 mm	AR-18827-52
Cortical screw, 2.7 mm × 54 mm	AR-18827-54
Cortical screw, 2.7 mm × 56 mm	AR-18827-56
Cortical screw, 2.7 mm × 58 mm	AR-18827-58
Cortical screw, 2.7 mm × 60 mm	AR-18827-60
Cortical screw, 2.7 mm × 65 mm	AR-18827-65
Cortical screw, 2.7 mm × 70 mm	AR-18827-70
Cortical screw, 2.7 mm × 75 mm	AR-18827-75
Cortical screw, 2.7 mm × 80 mm	AR-18827-80
VAL KreuLock compression screw, Ti, 2.7 mm × 30 mm	AR-8927VCL-30
VAL KreuLock compression screw, Ti, 2.7 mm × 32 mm	AR-8927VCL-32
VAL KreuLock compression screw, Ti, 2.7 mm × 34 mm	AR-8927VCL-34
VAL KreuLock compression screw, Ti, 2.7 mm × 36 mm	AR-8927VCL-36
VAL KreuLock compression screw, Ti, 2.7 mm × 38 mm	AR-8927VCL-38
VAL KreuLock compression screw, Ti, 2.7 mm × 40 mm	AR-8927VCL-40
VAL KreuLock compression screw, Ti, 2.7 mm × 42 mm	AR-8927VCL-42
VAL KreuLock compression screw, Ti, 2.7 mm × 44 mm	AR-8927VCL-44
VAL KreuLock compression screw, Ti, 2.7 mm × 46 mm	AR-8927VCL-46
VAL KreuLock compression screw, Ti, 2.7 mm × 48 mm	AR-8927VCL-48
VAL KreuLock compression screw, Ti, 2.7 mm × 50 mm	AR-8927VCL-50
VAL KreuLock compression screw, Ti, 2.7 mm × 52 mm	AR-8927VCL-52
VAL KreuLock compression screw, Ti, 2.7 mm × 54 mm	AR-8927VCL-54
VAL KreuLock compression screw, Ti, 2.7 mm × 56 mm	AR-8927VCL-56
VAL KreuLock compression screw, Ti, 2.7 mm × 58 mm	AR-8927VCL-58
VAL KreuLock compression screw, Ti, 2.7 mm × 60 mm	AR-8927VCL-60
VAL KreuLock compression screw, Ti, 2.7 mm × 65 mm	AR-8927VCL-65
VAL KreuLock compression screw, Ti, 2.7 mm × 70 mm	AR-8927VCL-70
VAL KreuLock compression screw, Ti, 2.7 mm × 75 mm	AR-8927VCL-75
VAL KreuLock compression screw, Ti, 2.7 mm × 80 mm	AR-8927VCL-80
Washer, 6.5 mm, Ti	AR-8730W
Washer, 7.0 mm, Ti	AR-8740W



**General Instruments 2.7 mm/3.5 mm AR-18900S-GEN**

2.7 mm Instruments	
Locking drill guide, 2.7 mm	AR-9954-06
VAL drill guide, double-ended, 2.7 mm	AR-9954-07
Drill guide, 2.0 mm/ 2.7 mm	AR-18800-22
Solid screwdriver, T10	AR-18800-27
Driver shaft, T10	AR-18800-24
Driver shaft, T10, long	AR-18800-26
Holding sleeve, 2.7 mm	AR-18800-32
Locking bending tower, 2.7 mm	AR-18800-33
2.7 mm Disposables	
Drill bit, 2.0 mm, calibrated, AO	AR-9954-20
Profile drill, 2.7 mm locking compression screws, AO	AR-18900-03
Drill bit, 2.0 mm, short, AO	AR-18800-18
Drill bit, 2.7 mm	AR-18800-20
Countersink, 2.7 mm	AR-18800-23
Tap, 2.7 mm	AR-18800-34
3.5 mm Instruments	
Locking drill guide, 1.6 mm K-wire sleeve	AR-9953-02
Locking drill guide, 3.5 mm	AR-9953-03
VAL drill guide, double-ended, 3.5 mm	AR-8940VDG
Drill guide, 2.5 mm/3.5 mm	AR-8943-14
Lag drill guide, 3.5 mm/2.5 mm	AR-8963-21
Solid screwdriver, T15	AR-8943-10
T15 Hexalobe driver	AR-8941DH
Driver shaft, T15, long	AR-9953-T15
Holding sleeve, 3.5 mm	AR-9953-07
Depth device, 2.7 mm/3.0 mm/3.5 mm	AR-7650-01
Depth device, low profile, 2.7 mm/3.5 mm/4 mm	AR-8943-15
Locking bending tower, 3.5 mm	AR-9954-09
MIS tissue sleeve depth gauge	AR-9954-05
3.5 mm Disposables	
Drill bit, 2.5, calibrated, AO	AR-9954-25
Drill bit, 2.8, calibrated, AO	AR-9954-28
Drill bit, 2.5 mm, calibrated, AO, long	AR-9954-25L
Drill bit, 2.8 mm, calibrated, AO, long	AR-9954-28L
Drill bit, 3.5 mm, short	AR-4160-35
Drill bit, 3.5 mm, long	AR-8964-10
Drill bit, 2.5 mm, short	AR-8943-30
Drill bit, 4.0 mm	AR-4160-40
Countersink, 3.5/4.0 mm	AR-8950-03
Tap, 3.5 mm	AR-8935T

General Instruments	
Torque-limiting adapter, AO, 0.8 Nm	AR-18700-39
Torque-limiting attachment, 1.5 Nm, QC	AR-8963TL-01
Ratcheting handle, AO QC	AR-8700RH
Weber clamp, small	AR-5050-05
Weber clamp	AR-8943-24
Lobster claw	AR-8943-23
Sharp hook	AR-8943-21
Hohmann retractor, double-ended (6 mm/10 mm)	AR-18700-53
Bending iron, double-ended	AR-18800-44
Bending iron	AR-8943-18
Needlenose pliers	AR-8916-24
Freer elevator	AR-8943-19
Periosteal elevator, curved blade, 6 mm	AR-8943-20
Submuscular tissue elevator, distal tibia	AR-8963-10
General Disposables	
Guidewire w/ trocar tip, 0.053 in (1.35 mm)	AR-8943-01
Guidewire w/ trocar tip, 0.062 in (1.6 mm)	AR-8941K
Guide wire w/ trocar tip, 0.078 in (2.0 mm)	AR-8945K
1.6 mm drill tip K-wire	AR-18800-36
2.0 mm drill tip K-wire, calibrated	AR-9954-20GW
2.5 mm drill tip K-wire, calibrated	AR-9954-25GW
2.8 mm drill tip K-wire, calibrated	AR-9954-28GW
BB-Tak	AR-13226
BB-Tak, threaded	AR-13226T
K-wire, 1.6 mm with ball	AR-14016B
Tray/Case Parts	
General instrument case	AR-18900C-GEN
General instrument case lid	AR-18900C-GEN-01

**PercuLock™ System**

Drill guide, threaded, long, 3.5 mm	AR-9954-02
Drill guide, nonthreaded, long, 3.5 mm	AR-9954-03
Tissue sleeve trocar, long	AR-9954-04
Minimally invasive tissue sleeve	AR-9954-01

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