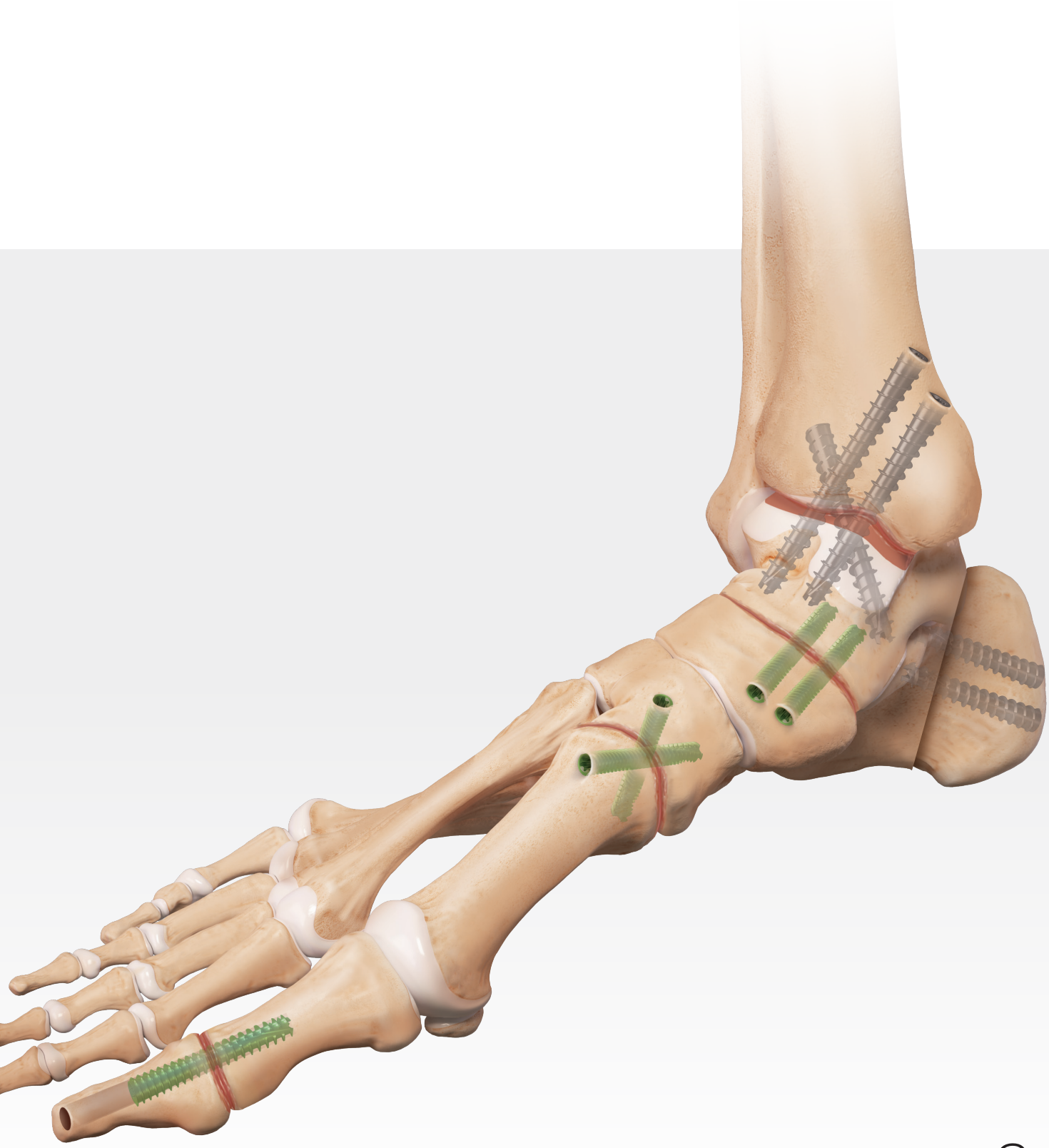
5.0 mm Large and 7.0 mm X-Large Compression FT Screw System

Surgical Technique



Arthrex®

5.0 mm Large and 7.0 mm X-Large Compression FT Screws

Large-headed screws have presented challenges to foot and ankle surgeons when performing midfoot and hindfoot procedures. Screw head prominence can create patient discomfort and may result in hardware removal. The fully threaded headless, titanium 5.0 mm large and 7.0 mm X-large screws provide surgeons the ability to achieve zero-profile stable fixation with optimized compression. This completes the Compression FT family of screws, now offering a total of 5 diameters and 91 unique screw lengths to fit the various orthopedic applications throughout the body.

Applications in the foot and ankle include arthrodesis, osteotomies, and fracture fixation. The headless Compression FT screw provides excellent compression and holding power.[1] For lower extremity surgery, the Compression FT screw may be inserted either percutaneously or in an open procedure. Accurate placement of the screw can be ensured by using the cannulated instrumentation in the set.

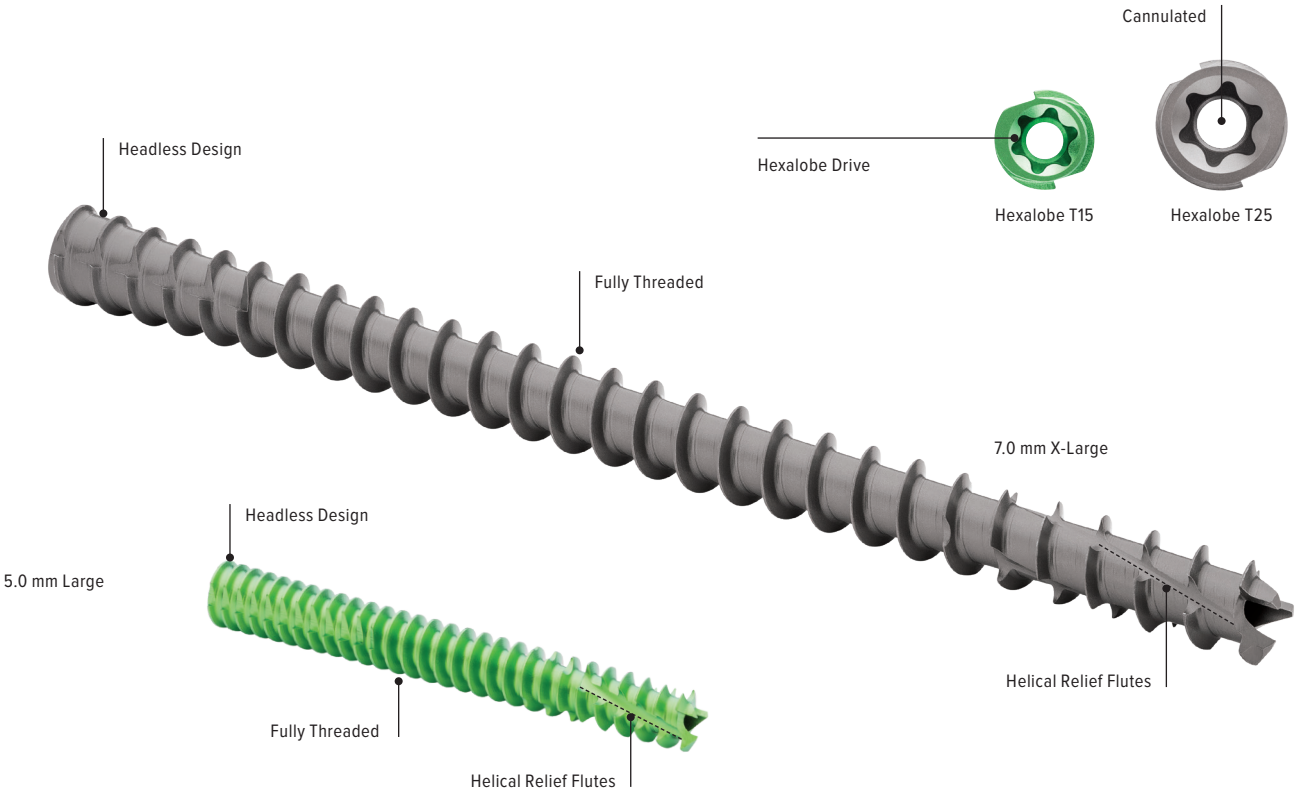
› Headless Design
The screws can be implanted intra-articularly and extra-articularly with minimal risk of impingement or soft-tissue irritation.

› Compression/Fully Threaded
Variable-stepped thread pitch and tapered proximal profile work together to compress bone fragments into a stable rigid unit to help promote bone union. The screw tip's wider thread pitch enters bone faster than trailing threads, gradually compressing the fragments as the screw is advanced.

› Helical Relief Flutes
Located on the distal portion of the screw and designed to assist in bone removal to reduce insertion torque. Available in Compression FT 5.0 mm and 7.0 mm only.

› Cannulated
Assists in accurate placement for both percutaneous and open indications.

› Hexalobe Drive
Improved torque transmission.



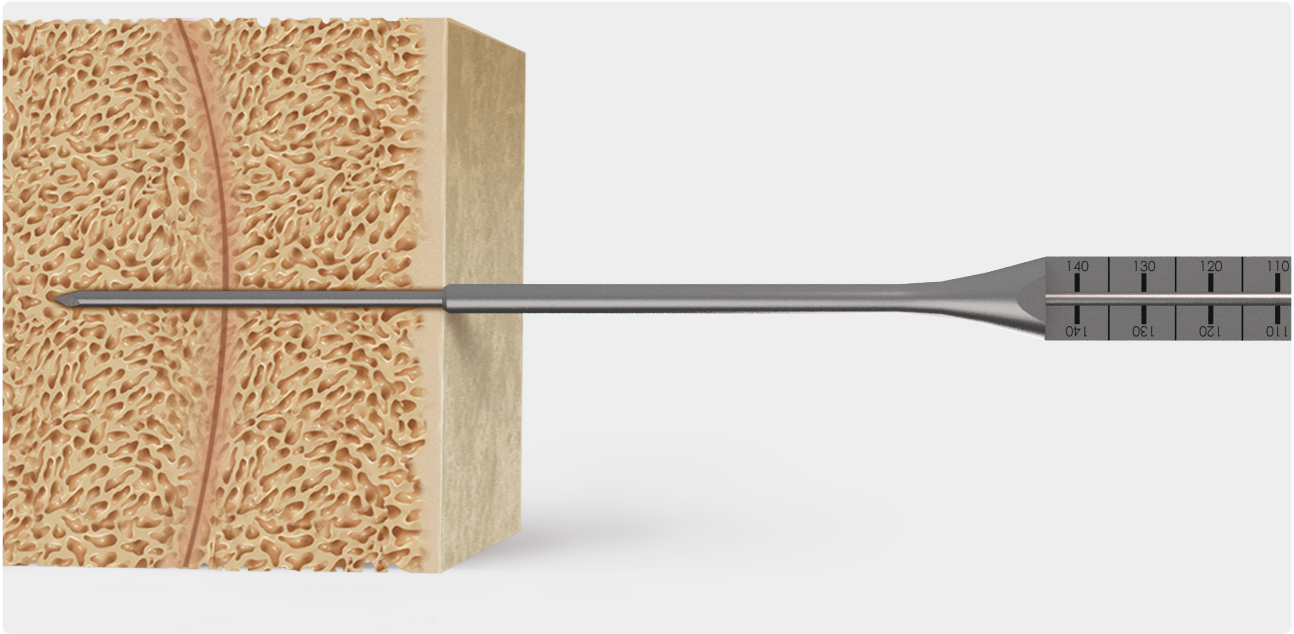
Reference

1. Arthrex, Inc. LA1-0487-EN_A. Naples, FL; 2014.

Compression FT Screw System

1

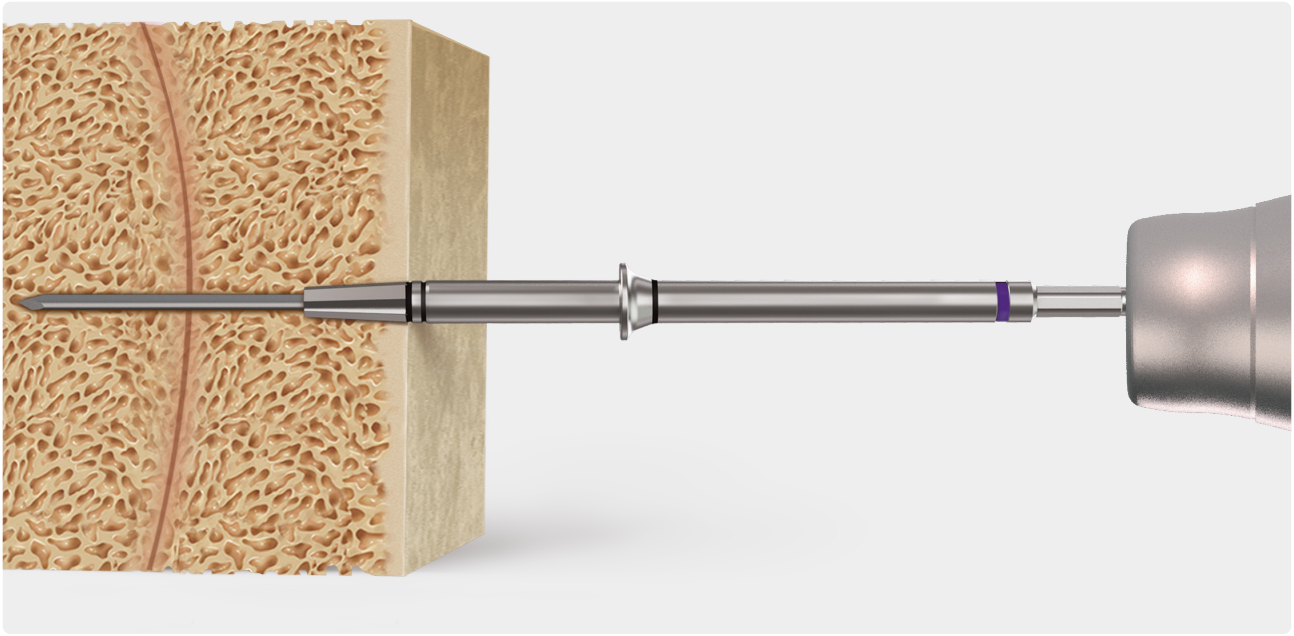
Establish the entry point for fixation and introduce the appropriate guidewire across the fracture or fusion site. Confirm the accurate wire placement position and appropriate depth under imaging. If the fragment is unstable, it may be helpful to place a second parallel guidewire.



2

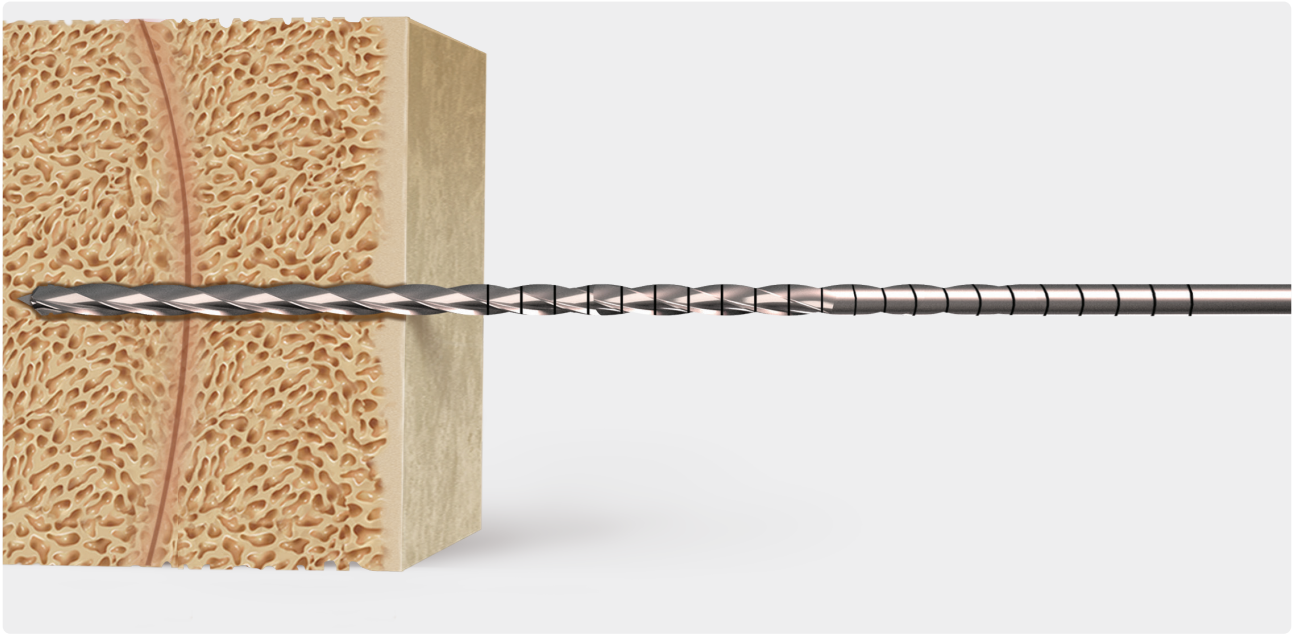
Measure the initial guidewire length using the depth device. It may be necessary to subtract from this length if the desired screw placement is to be countersunk and to account for compression achieved.

After measuring the appropriate screw depth, advance the guidewire through the far cortex of the operative site to minimize the risk of accidental withdrawal of the guidewire while drilling.



3

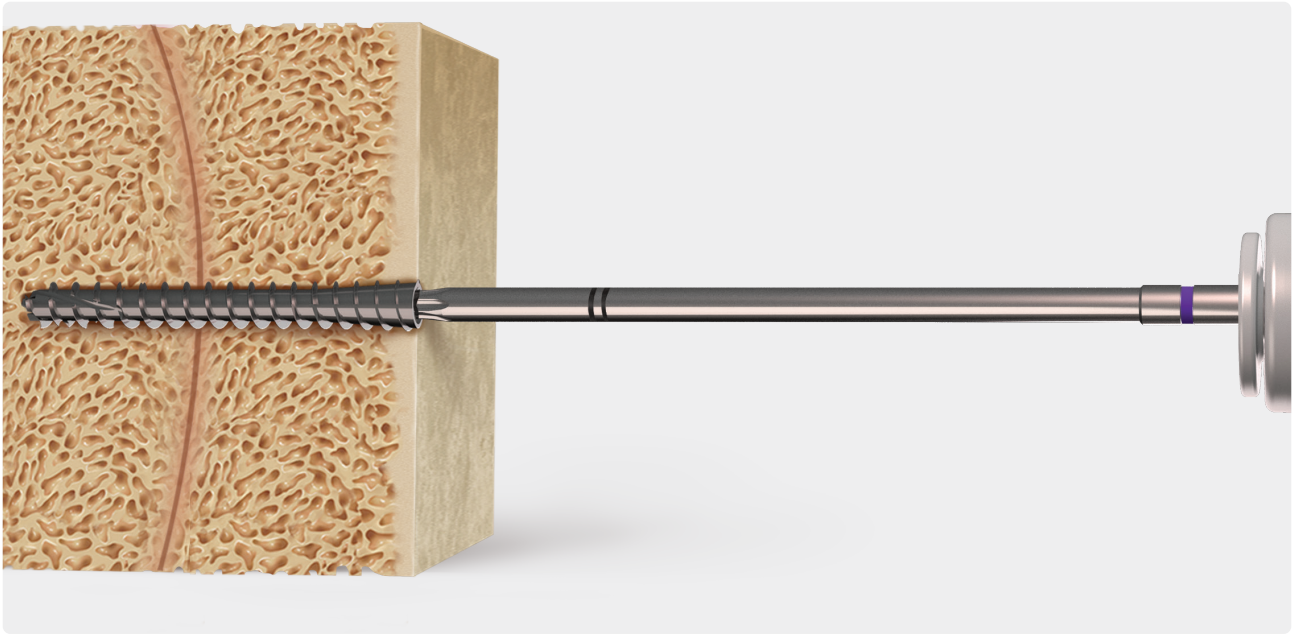
Use the appropriate size profile drill over the guidewire to break the cortical bone layer. Drill to the laser line for flush screw head or hard stop to countersink screw head 2 mm.



4

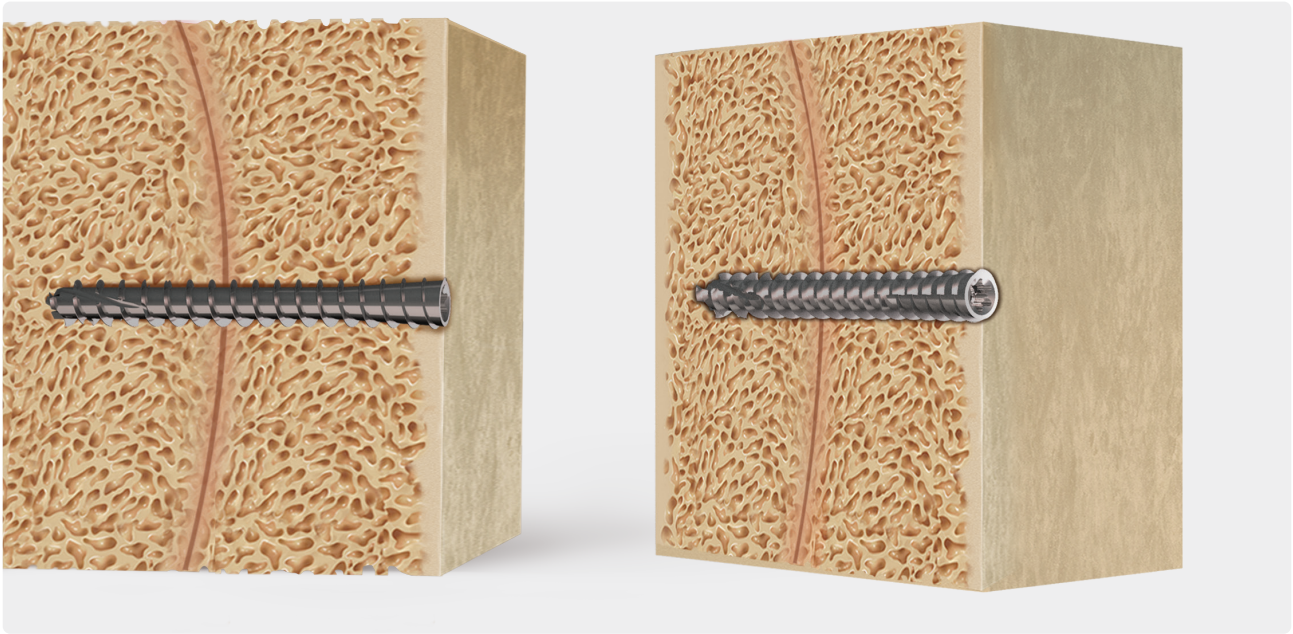
Use the appropriately sized straight drill bit to ream the entire length of the selected screw path. It is important to drill the entire length to prevent distraction of distal fragments.

Use the 3.2 mm straight, cannulated drill bit for the 5.0 mm large Compression FT screws and the 5.0 mm straight, cannulated drill bit for the 7.0 mm X-large Compression FT screws.



5

Insert the correctly sized screw with the appropriate driver. If resistance is met upon insertion, or if distraction occurs, stop, remove the screw, redrill the entire length with the appropriate cannulated drill, and reinsert the screw. Dense bone may require downsizing the screw length.



6

Confirm placement and length of the screw on imaging, ensuring that both leading and trailing edges of the screw are placed beneath the surface if desired. Finally, remove the guidewires.

Biologic Augmentation Options

ArthroCell™ Viable Bone Matrix
ArthroCell matrices offer osteogenic, osteoinductive, and osteoconductive properties, delivering a graft that mimics the structure of native bone, provides optimal handling, and resists irrigation. The grafts are preserved in a novel DMSO-free cryoprotectant for preservation of cells, eliminating the need to rinse or decant during graft preparation.

ArthroCell, 2.5 cc	ABS-2009-02
ArthroCell, 5.0 cc	ABS-2009-05
ArthroCell Plus allograft, 1 cc	ABS-2090-01
ArthroCell Plus allograft, 2.5 cc	ABS-2090-02
ArthroCell Plus allograft, 5.0 cc	ABS-2090-05

AlloSync™ Pure Matrix
AlloSync Pure demineralized bone matrix is derived from 100% allograft bone with no extrinsic carriers. Surgeons can adjust the viscosity of AlloSync Pure bone matrix for a more flowable or putty-like consistency based on hydration ratio to readily mold into various fracture patterns or bone voids.

AlloSync Pure, 1.0 cc	ABS-2010-01
AlloSync Pure, 2.5 cc	ABS-2010-02

AlloSync Putty, Gel, and Paste
AlloSync putty, gel, and paste grafts provide ease of use with optimized handling characteristics via reverse-phase medium carrier. Every lot of DBM is tested for osteoinductive potential with additional scaffolding.

AlloSync DBM putty, 1.0 cc	ABS-2012-01
AlloSync DBM putty, 2.5 cc	ABS-2012-02
AlloSync DBM gel, 1.0 cc	ABS-2013-01
AlloSync CB DBM paste, 1.0 cc	ABS-2015-01
AlloSync CB DBM paste, 3.0 cc	ABS-2015-03

Ordering Information

Compression FT Screw System (AR-8750S)	
Instruments	
Depth device	AR-8750-01
Percutaneous drill guide	AR-8750-02
Guidewire plunger	AR-8737-56
Screw holding forceps	AR-8941F
Sharp hook	AR-8943-21
5.0 mm/7.0 mm Compression FT instrument case	AR-8750C
Instruments for 5.0 mm Large Compression FT Screws	
Driver, T15 hexalobe, ISO, cannulated, qty. 2	AR-8750-03
Driver, T15 hexalobe, ISO, solid	AR-8750-06
Guidewire sleeve, 1.6 mm	AR-8750-07
Soft tissue protector, 1.6 mm	AR-8750-08
Drill sleeve, 5.0 mm large	AR-8750-12
Screwdriver handle, ratcheting, AO, cannulated	AR-8970RH
Trephine/extractor, 5.0 mm large	AR-8750-11
Instruments for 7.0 mm X-Large Compression FT Screws	
Driver, T25 hexalobe, ISO, cannulated, qty. 2	AR-8770-01
Driver, T25 hexalobe, ISO, solid	AR-8770-04
Guidewire sleeve, 2.4 mm	AR-8770-05
Soft tissue protector, 2.4 mm	AR-8770-06
Drill sleeve, 7.0 mm X-large	AR-8770-09
Screwdriver handle, ratcheting, tri-lobe axial handle	AR-8770RH
Screwdriver handle, ratcheting, tri-lobe T-handle	AR-8770TH
Trephine/extractor, 7.0 mm X-large	AR-8770-08
Implants	
5.0 mm Large Compression FT Screws	
20 mm-50 mm (2 mm increments)	AR-8750-20H-50H
55 mm-90 mm (5 mm increments)	AR-8750-55H-90H
7.0 mm X-Large Compression FT Screws	
35 mm-120 mm (5 mm increments)	AR-8770-35H-120H
125 mm-140 mm (5 mm increments)*	AR-8770-125HS-140HS

*Available outside of set sterile-packed.

Disposables (not included in set)	
5.0 mm Disposable Instruments	
Guidewire w/ trocar tip, 0.062 in (1.6 mm)	AR-8750K
Guidewire w/ trocar tip, threaded, 0.062 in (1.6 mm)	AR-8750KT
Profile drill, 5.0 mm large	AR-8750-05
Drill bit, straight, cannulated, 3.2 mm	AR-8750-04
Drill bit, straight, cannulated, long, 3.2 mm	AR-8750-09
Drill, cannulated, 3.7 mm	AR-8750-13
Drill, cannulated, long, 3.7 mm	AR-8750-14
Easy-out for large Compression FT	AR-8750-10
7.0 mm Disposable Instruments	
Guidewire w/ trocar tip, 0.094 in (2.4 mm)	AR-8770K
Guidewire w/ trocar tip, threaded, 0.094 in (2.4 mm	AR-8770KT
Profile drill, 7.0 mm X-large	AR-8770-03
Drill bit, straight, cannulated, 5 mm	AR-8770-02
Drill, cannulated, 5.2 mm	AR-8770-10
Easy-out for X-large Compression FT	AR-8770-07

Additional Screw Caddies (Optional)	
Compression screw caddy, 5.0 mm large	AR-8750C-SC-01
Compression screw caddy, 7.0 mm X-large	AR-8750C-SC-02

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

arthrex.com