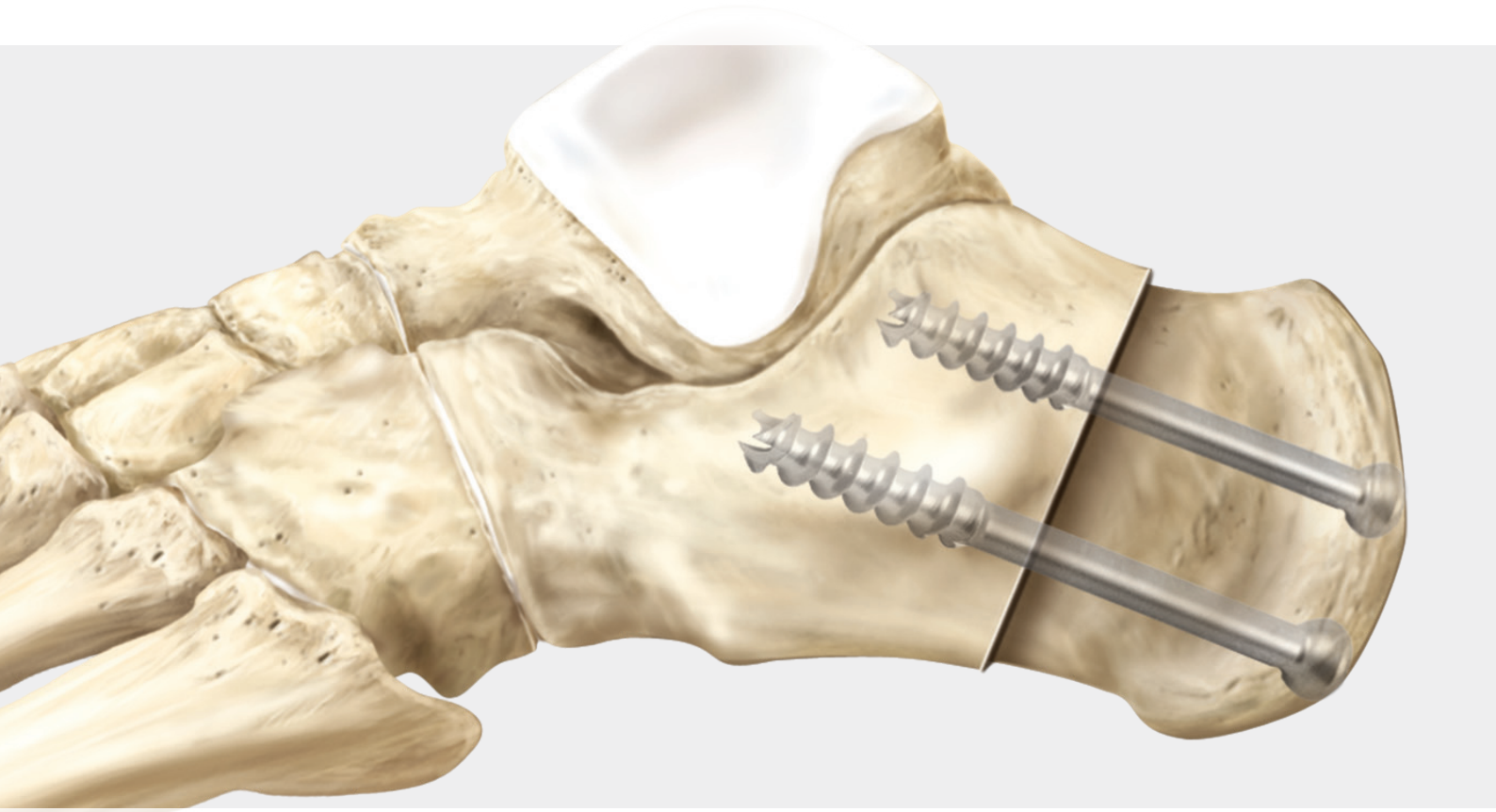
4.5 mm/6.7 mm Low Profile Screw System

Surgical Technique



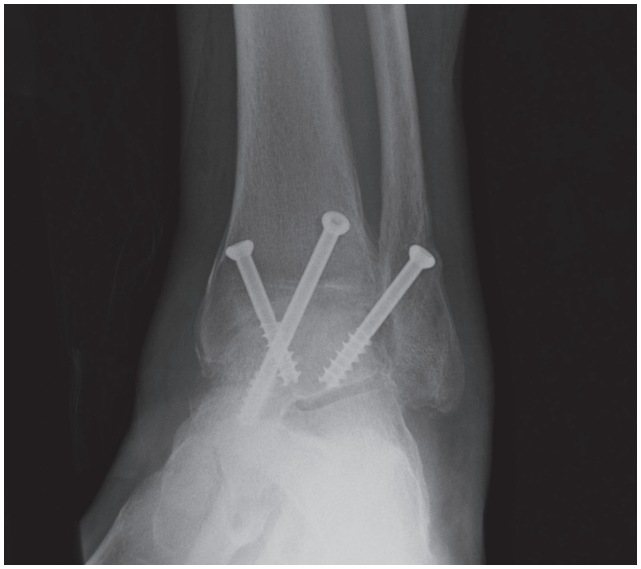
Arthrex®

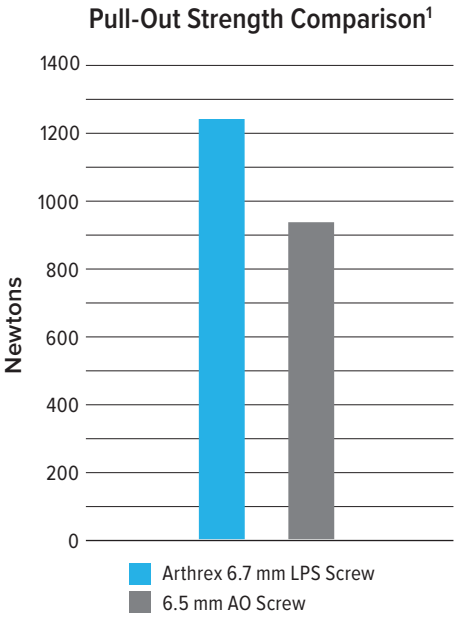
Introduction

Designed in conjunction with foot and ankle surgeons, the cannulated 6.7 mm low profile screw (LPS) is the ideal tool for hindfoot fixation. The larger thread-to-shaft differential provides greater pull-out strength[1] and compression, while the 18 mm, 28 mm, and fully threaded options expand the range of surgical solutions. Lower profile heads decrease the need for removal in areas where minimal soft tissue and direct weightbearing are considerations.

Features and Benefits

- 18 mm thread length, 28 mm thread length, and fully threaded options – Three choices for surgical flexibility
- Deeper threads – Using a 2.4 mm guide pin allows threads to be deeper than a standard AO screw
- Larger thread height – Maximizes purchase for 30% more pull-out strength than a standard screw[1]
- Lower profile head – 1 mm lower than a standard screw
- 2.4 mm guide pin – Enables accurate placement
- Self-drilling/self-tapping – Quick and easy insertion, reverse cutting flutes
- 3.5 mm hex – Strong drive for confident placement
- Type II anodized titanium





Reference

1. Arthrex, Inc. Data on file (APT 930). Naples, FL; 2007.

Comparison Between AO 6.5 mm Screw and the Arthrex 6.7 mm Screw

Actual Sizes

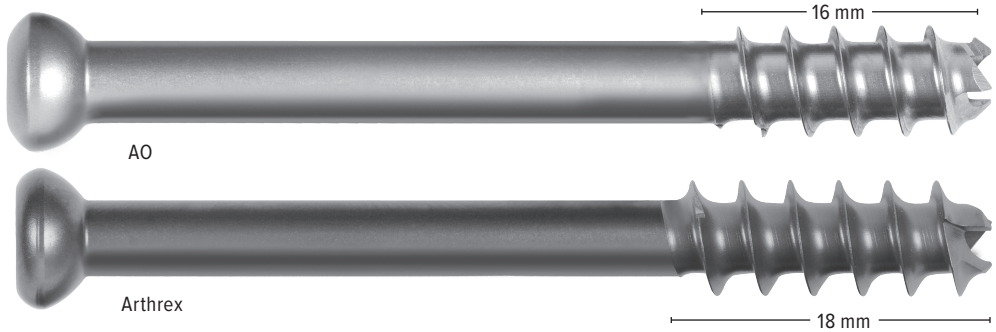
6.5 mm AO screw

Arthrex 6.7 mm LPS screw - 18 mm thread

Arthrex 6.7 mm LPS screw - 28 mm thread

Arthrex 6.7 mm LPS screw - fully threaded

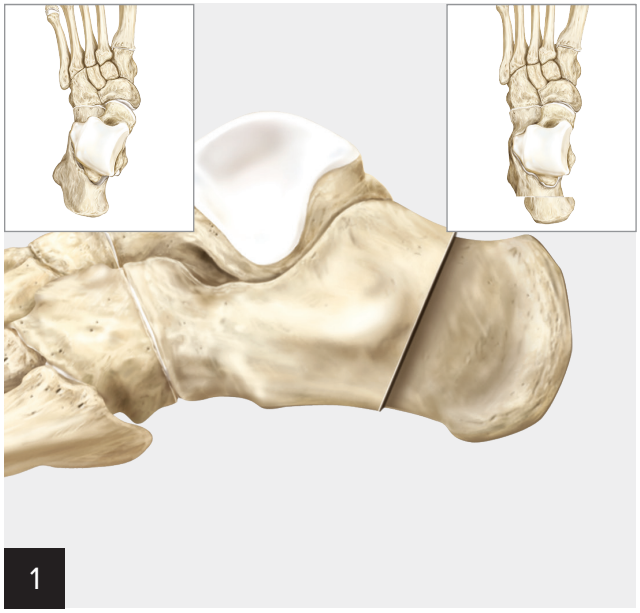
Arthrex 6.7 mm screw has a 1 mm lower profile than AO screw



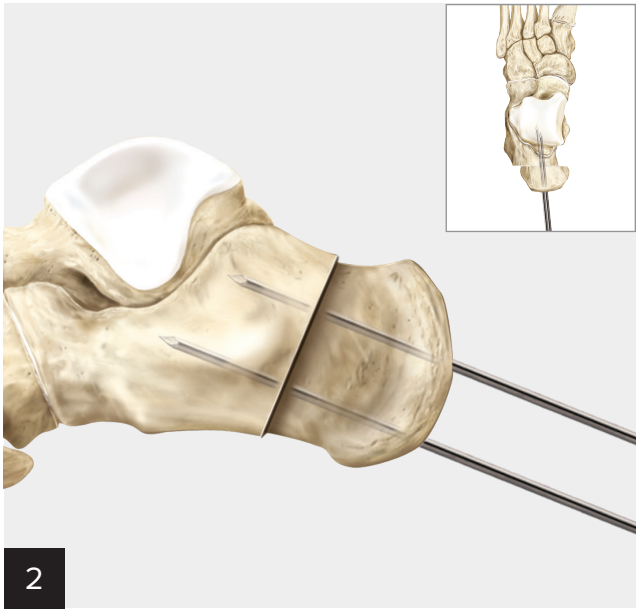
AO 6.5 mm 1.7 mm core-to-thread differential

Arthrex 6.7 mm 2.3 mm core-to-thread differential

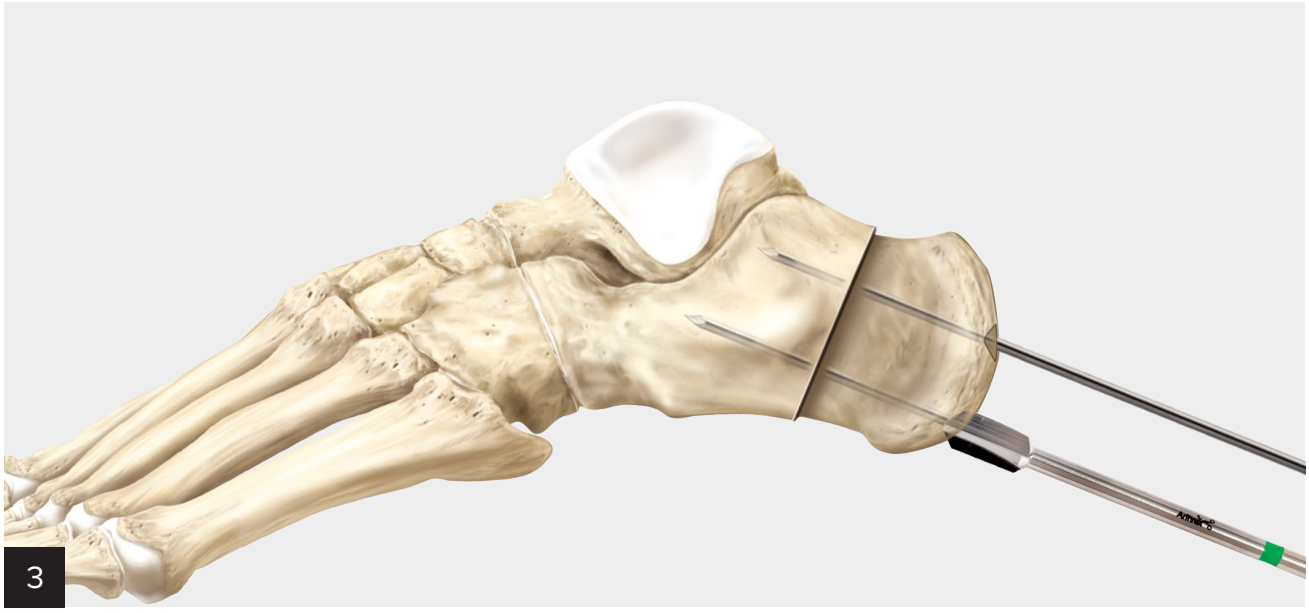
Medializing Calcaneal Osteotomy (MCO) Technique, 6.7 mm LPS Screw



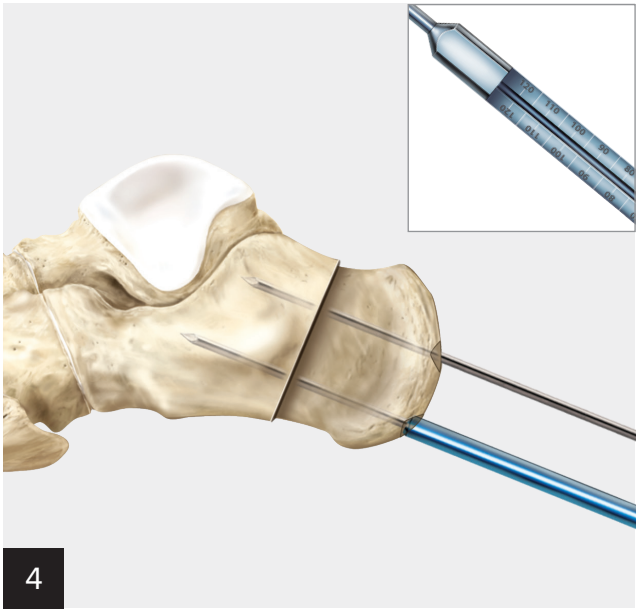
Cut the calcaneus in the appropriate location and shift the desired amount.



Maintain the correction with two 2.4 mm guide pins at the desired location of the screws. If desired, use the provided parallel pin guide. Always drive the pin through the longer leg of the guide.

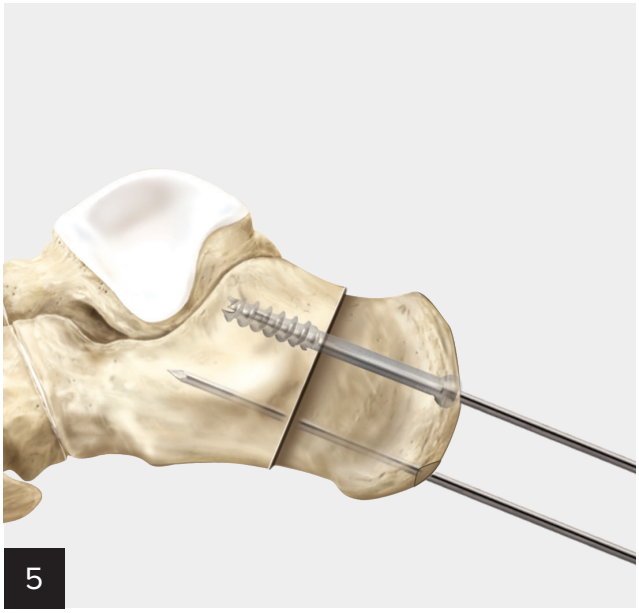


Countersink, if indicated.



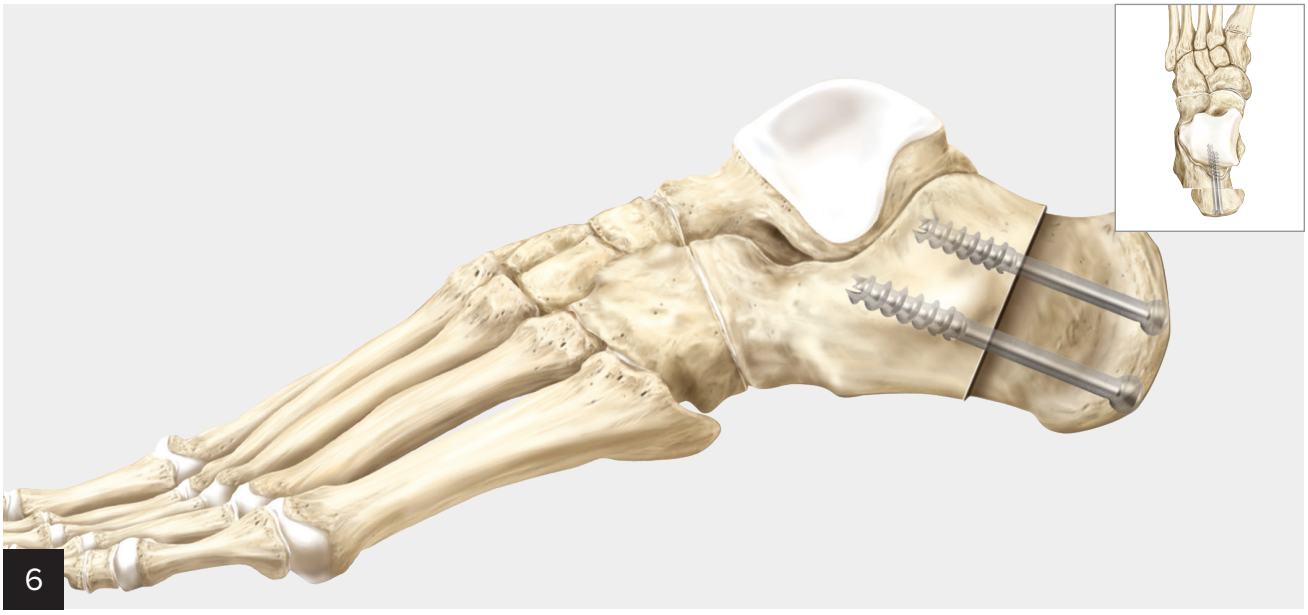
4

Measure pin depth with the depth device (inset).



5

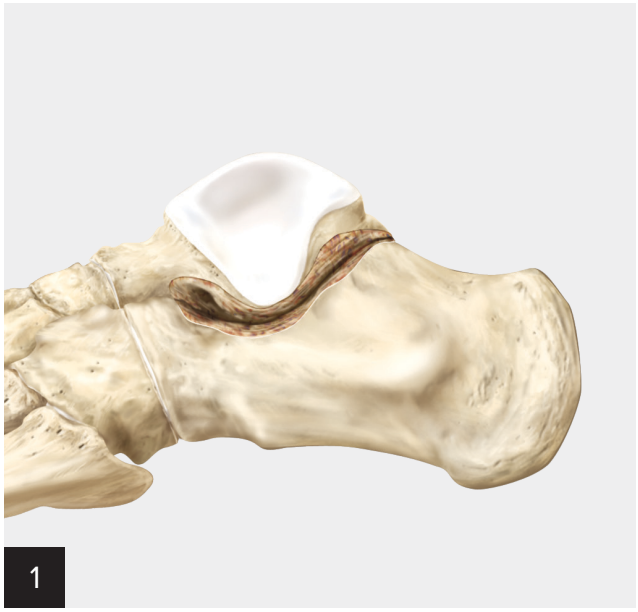
Fix with two 6.7 mm cannulated LPS screws. Screws are self-drilling, but in very hard bone predrilling may be required. Screws may be inserted by hand or power, but final tightening should be done by hand.



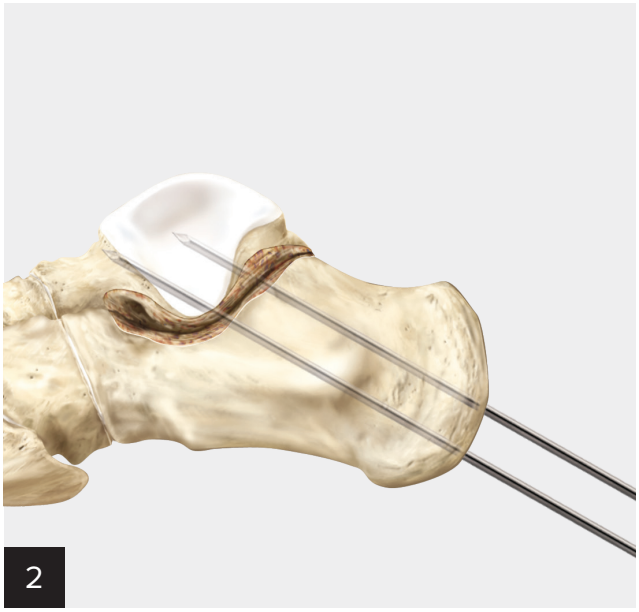
6

Osteotomy fixation is complete.

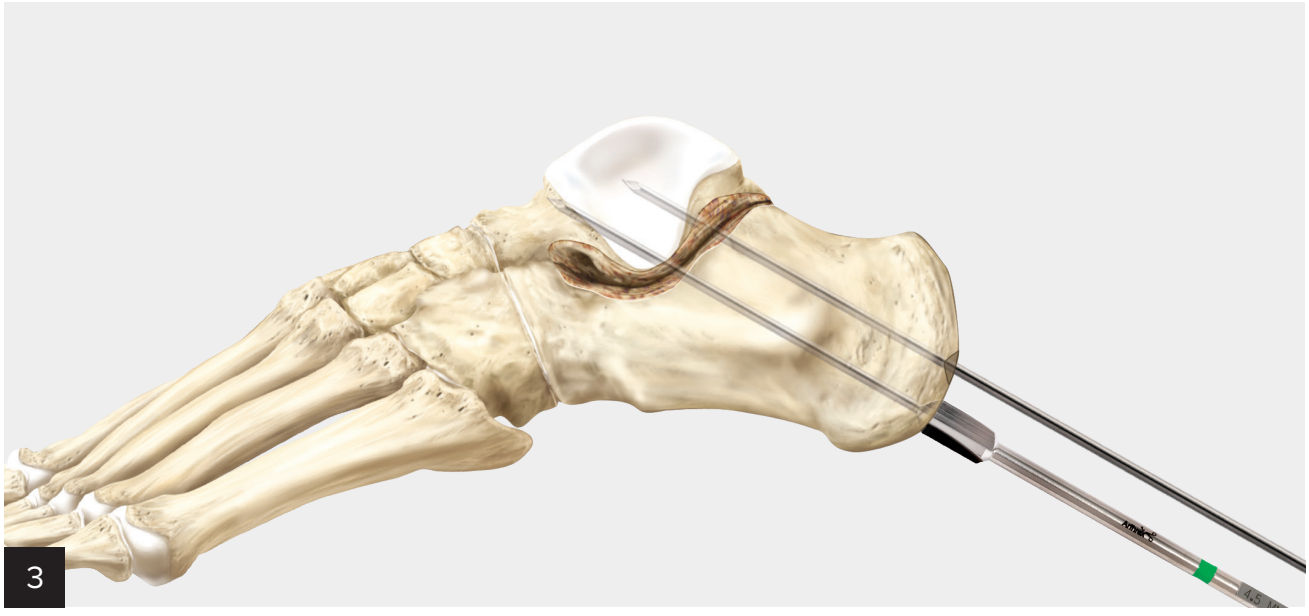
Subtalar Arthrodesis Technique Options, 6.7 mm LPS Screw



Prepare subtalar joint by thoroughly removing all cartilage. Roughen bony surfaces by drilling, “fish scaling," or other means. Pack the joint with graft material. AlloSync Pure™ demineralized bone matrix hydrated with Angel® cPRP system from bone marrow would probably be the first choice among many.

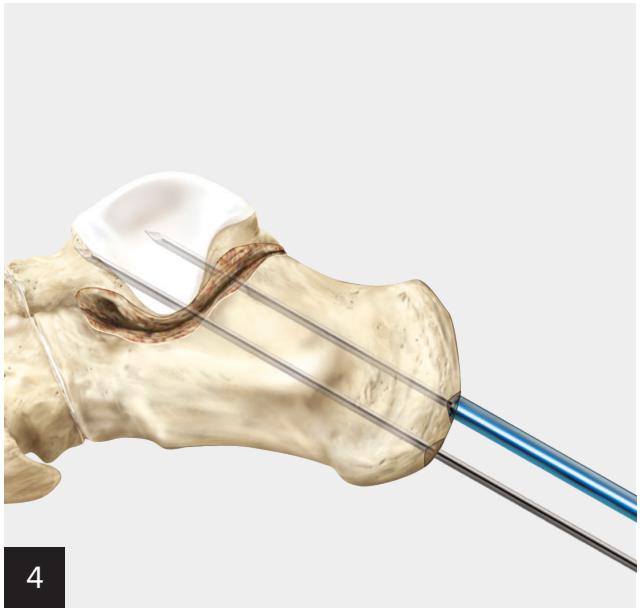


Insert two 2.4 mm guide pins at the intended location of the screws. If desired, use the provided parallel pin guide. Always drive pins through the longer leg of the guide.

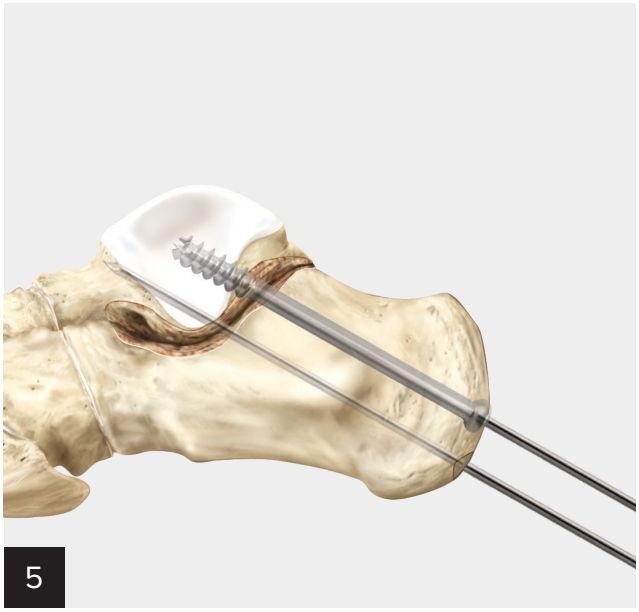


Countersink, if indicated.

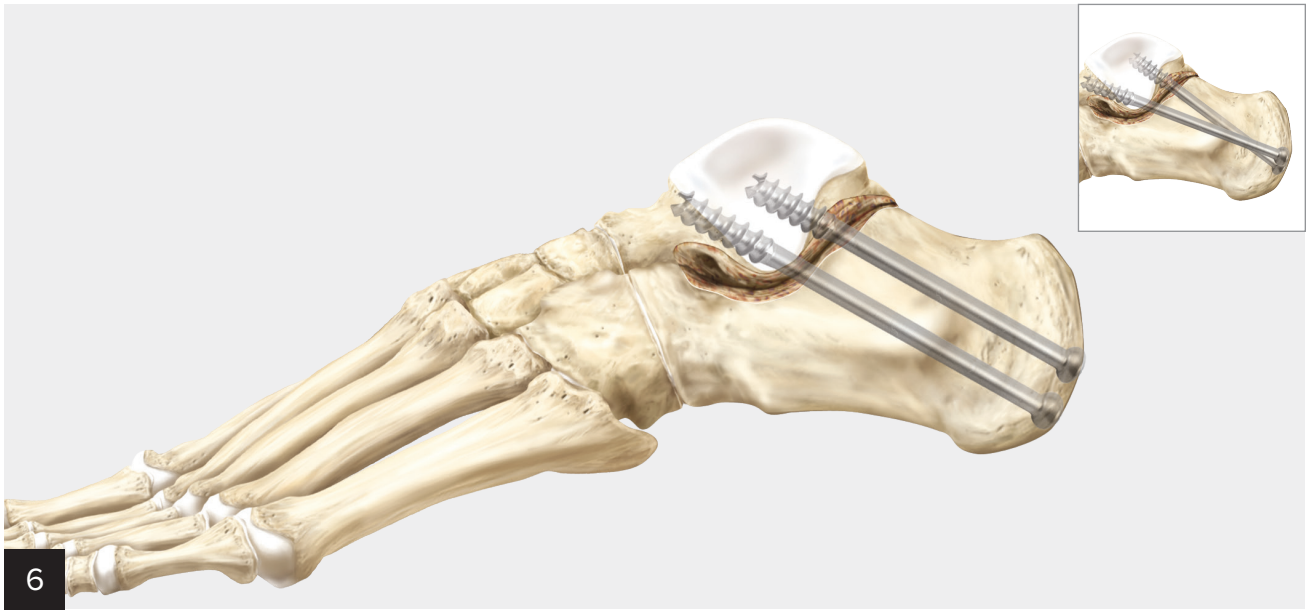
Subtalar Arthrodesis Technique Options, 6.7 mm LPS Screw



Measure the pin depth with the depth device.

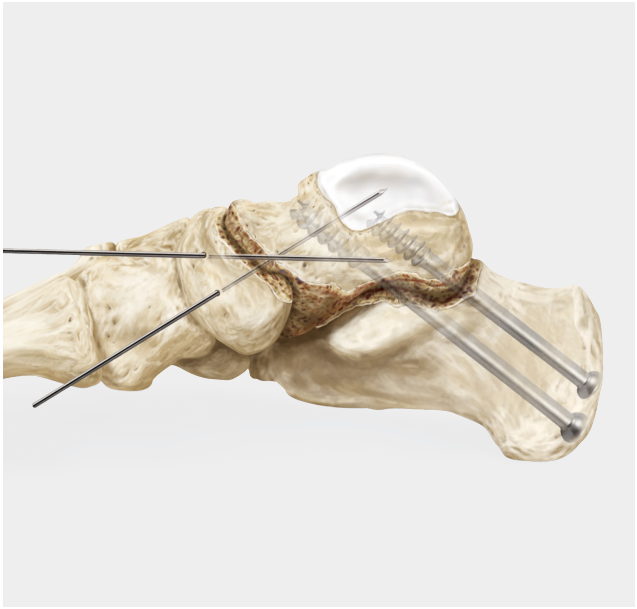


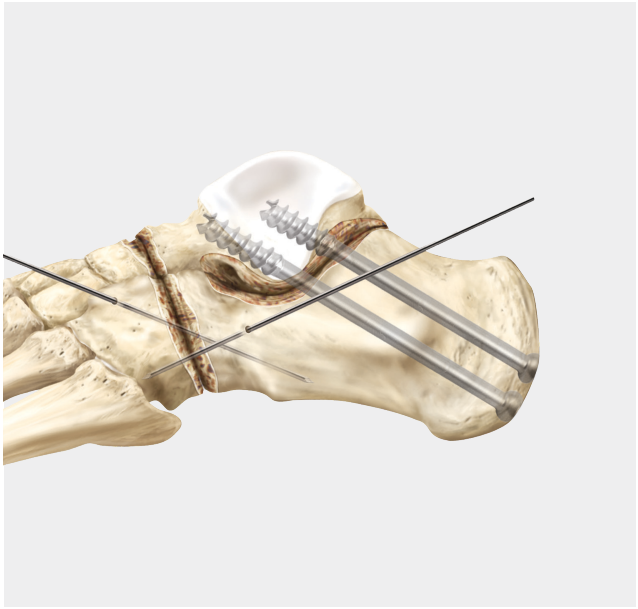
Fix with two 6.7 mm cannulated LPS screws. Screws are self-drilling, but in very hard bone predrilling may be required.



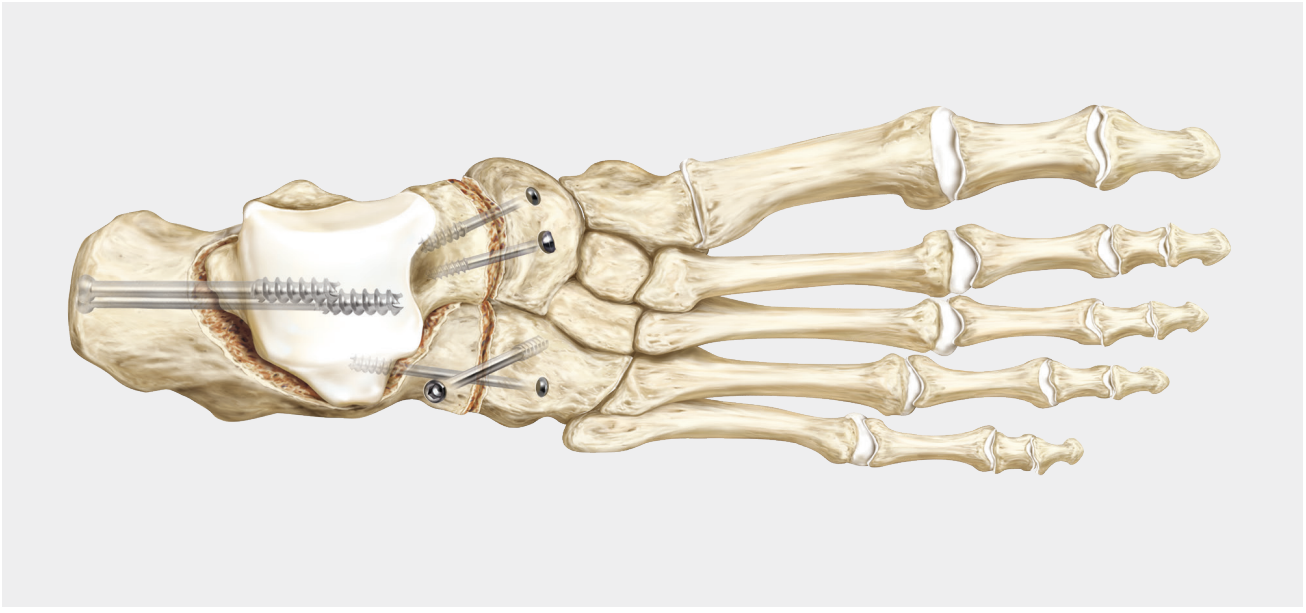
Screws may be inserted by hand or power, but final tightening should be done by hand. Screws may be inserted in divergent directions, if desired.

Triple Arthrodesis Technique Options, 4.5 mm LPS Screw





Guidewires must be placed diagonally prior to screw insertion.



Final fixation.

AlloSync™ Pure Demineralized Bone Matrix

AlloSync Pure dehydrated osteoinductive demineralized bone matrix (DBM) is derived from 100% human allograft bone with no extrinsic carriers. AlloSync Pure bone matrix resists irrigation and can be used in a fluid environment. The clinician can control the handling properties of AlloSync Pure bone matrix, which includes decreasing the viscosity for injectable applications or increasing the viscosity to add autograft and/or allograft.

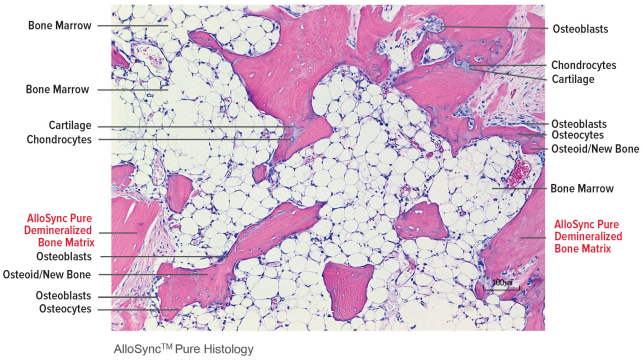


Figure 1: AlloSync Pure DBM histology.[1]

AlloSync Demineralized Cancellous Sponge and Demineralized Cortical Fibers

When combined with osteogenic autologous bone marrow and/or autologous platelet-rich plasma (PRP), AlloSync DBM provides the necessary components for bone formation.

- Comprised of 100% demineralized bone with handling characteristics
- Contains exposed natural growth factors with osteoinductive potential
- Provides optimal scaffold for cellular attachment and proliferation
- Naturally absorbs and retains bioactive fluids such as PRP and bone marrow aspirate (BMA)
  - After rehydration, the product is compressible like a sponge, allowing for flexibility to fit in and around different types of bone defects

PRP applied to FlexiGRAFT® sponge

PRP applied to FlexiGRAFT fibers

FlexiGRAFT is a registered trademark of LifeNet Health

Reference

1. CellRight Technologies, LLC. Data on file (ConCelltrate® 100 histology and in-vitro alkaline phosphate induction assay). Universal City, TX; 2017.

Ordering Information

LPS 4.5 mm/6.7 mm Instrument Set

Product Description	Item Number
Low Profile Screw System Instrument Case	AR-**8946C**
4.5 mm Instruments	
Depth Device, cannulated, 3 mm/4.5 mm	AR-**8944DG**
Drill Guide, 1.6 mm/4 mm	AR-**8955G**
Driver, cannulated, 3.5 mm hex (Mini Hudson)	AR-**8967D**
Drill Bit, cannulated, 3 mm (Mini Hudson)	AR-**8945-30C**
Countersink, fixed handle, cannulated, 4.5 mm	AR-**8945CSF**
Drill Guide, 3.4 mm/4.5 mm	AR-**4164G**
Drill Bit, cannulated, 4.5 mm (Mini Hudson)	AR-**8945-45C**
Depth Device, large for 4.5 mm/6.7 mm (hook tip)	AR-**4167**
Bone Tap, cannulated, 4.5 mm (Mini Hudson)	AR-**8945TC**
Low Profile Screws, partially threaded, 4.5 mm × 20 mm-40 mm (2 mm increments)	AR-**8945-20FT-40FT**
Low Profile Screws, partially threaded, 4.5 mm × 45 mm-80 mm (5 mm increments)	AR-**8945-45FT-80FT**
Low Profile Screws, fully threaded, 4.5 mm × 20 mm-40 mm (2 mm increments)	AR-**8945-20FT-40FT**
Low Profile Screws, fully threaded, 4.5 mm × 45 mm-80 mm (5 mm increments)	AR-**8945-45FT-80FT**
Implants – 4.5 mm Screws and Washer	
Washer, titanium, qty. 4	AR-**8945W**
Disposables	
Guidewire w/ Trocar Tip, .062 in (1.6 mm)	AR-**8941K**
Guidewire w/ Trocar Tip, threaded, .062 in (1.6 mm)	AR-**8941KT**

Product Description	Item Number
6.7 mm Instruments	
Parallel Pin Guide, adjustable, 2.4 mm	AR-**8967PG**
Cannulated Depth Device, 6.7 mm	AR-**8967DG**
Drill Guide, 4 mm/6.7 mm	AR-**8967G**
Drill Bit, cannulated, 4 mm, qty. 2	AR-**8967-40C**
Drill Bit, cannulated, 6.7 mm	AR-**8967-67C**
Hudson Adapter	AR-**1416**
Countersink, fixed handle, cannulated, 6.7 mm	AR-**8967CSF**
Bone Tap (Mini Hudson), cannulated, 6.7 mm	AR-**8967TC**
Driver, cannulated, 3.5 mm hex	AR-**8967D**
Ratcheting Screwdriver Handle	AR-**1999**
Depth Device, hook tip, large	AR-**4167**
Tear Drop Handle	AR-**2001**
Low Profile Screw Caddy, 4.5 mm/6.7 mm	AR-**8946C-SC**
Implants – 6.7 mm Screws and Washer	
Low Profile Screws, cannulated, 6.7 mm × 40 mm-120 mm, 18 mm thread length[a]	AR-**8967-1840-18120**
Low Profile Screws, cannulated, 6.7 mm × 40 mm-120 mm, 28 mm thread length[a]	AR-**8967-2840-28120**
Low Profile Screws, cannulated, fully threaded, 6.7 mm × 40 mm-120 mm[a]	AR-**8967-40FT-120FT**
Washer, titanium, qty. 4	AR-**8967W**
Disposables	
Guidewire w/ Trocar Tip, nonthreaded, 0.094 in (2.4 mm) × 8 in, qty. 6	AR-**8967K**
Guidewire w/ Trocar Tip, threaded, 0.094 in (2.4 mm) × 8 in, qty. 6	AR-**8967KT**
Guidewire w/ Trocar Tip, nonthreaded, 0.094 in (2.4 mm) × 12 in, qty. 6	AR-**8967K-12**
Guidewire w/ Trocar Tip, threaded, 0.094 in (2.4 mm) × 12 in, qty. 6	AR-**8967KT-12**
Optional	
C-ring Pin Guide	AR-**8967CG**
Countersink, cannulated, 4.5 mm/6.7 mm	AR-**8945CS**
6.7 mm Low Profile Screw System Tenodesis Module	AR-**8967S**

[a]All screws are available in 5 mm increments.

Orthobiologics Ordering Information

AlloSync™ Cancellous Sponges

Product Description	Item Number
Cube, 8 mm × 8 mm × 8 mm	ABS-**2005-01**
Cube, 10 mm × 10 mm × 10 mm	ABS-**2005-02**
Cube, 12 mm × 12 mm × 12 mm	ABS-**2005-03**
Strip, 10 mm × 20 mm × 2 mm	ABS-**2006-01**
Strip, 15 mm × 40 mm × 2 mm	ABS-**2006-02**
Strip, 20 mm × 25 mm × 6 mm	ABS-**2006-03**
Strip, 10 mm × 20 mm × 8 mm	ABS-**2006-04**
Chips (1 mm-4 mm), 1 cc	ABS-**2007-01**
Chips (1 mm-4 mm), 2.5 cc	ABS-**2007-02**
Chips (1 mm-4 mm), 5 cc	ABS-**2007-03**

AlloSync Cortical Fibers

Product Description	Item Number
Fibers, 1 cc	ABS-**20085-01**
Fibers, 2.5 cc	ABS-**2008-02**
Fibers, 5 cc	ABS-**2008-03**
Fibers, 10 cc	ABS-**2008-04**

Autologous Conditioned Plasma (ACP)

Product Description	Item Number
Arthrex ACP® Double Syringe w/ Cap	ABS-**10010S**
Series I ACP Blood Draw Kit	ABS-**10011**
Series II ACP Blood Draw Kit	ABS-**10012**
Centrifuge	**1206-01**
Rotor Set w/ Buckets and Caps	ABS-**10021S**
Bucket	**1491**
Bucket Cap	**1492**
Counterbase	ABS-**10027**
Arthrex Biologics Cart	ABS-**10100**

Demineralized Bone Matrix

Product Description	Item Number
AlloSync DBM Putty, 1 cc	ABS-**2012-01**
AlloSync DBM Putty, 2.55 cc	ABS-**2012-02**
AlloSync DBM Putty, 5 cc	ABS-**2012-05**
AlloSync DBM Putty, 10 c	ABS-**2012-10**
AlloSync DBM Gel, 1 cc	ABS-**2013-01**
AlloSync DBM Gel, 5 cc	ABS-**2013-05**
AlloSync DBM Gel, 10 cc	ABS-**2013-10**
AlloSync CB DBM Putty, 5 cc	ABS-**2014-05**
AlloSync CB DBM Putty, 10 cc	ABS-**2014-10**
AlloSync CB DBM Paste, 1 cc	ABS-**2015-01**
AlloSync CB DBM Paste, 3 cc	ABS-**2015-03**
AlloSync CB DBM Paste, 8 cc	ABS-**2015-08**
StimuBlast® Cancellous Crushed, 5 cc	**27715005**

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