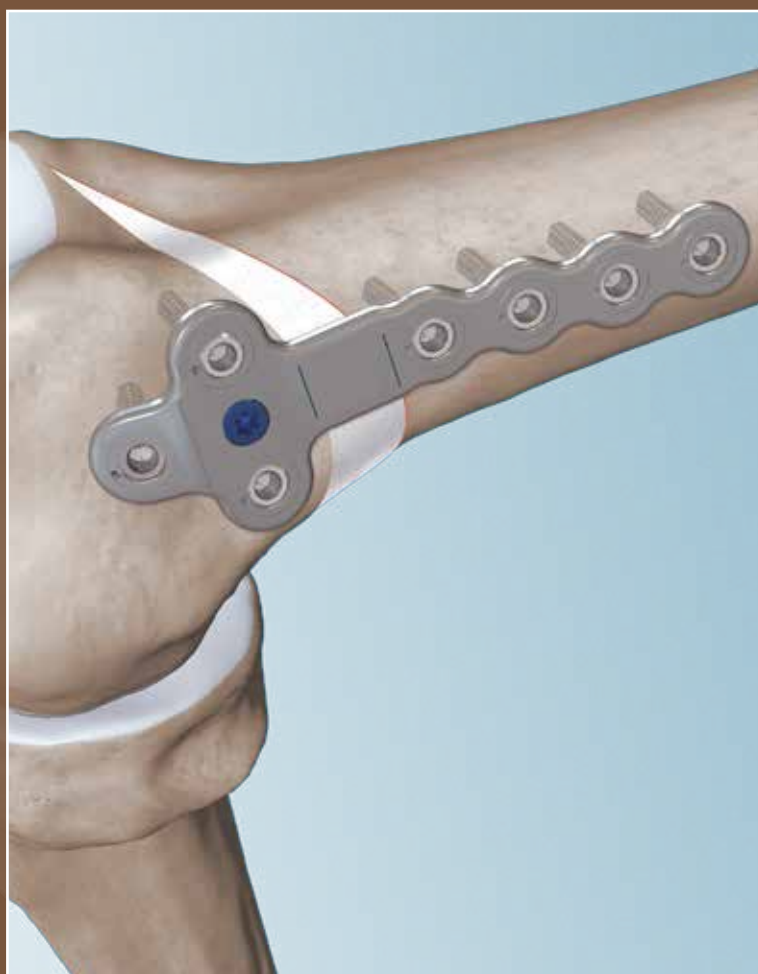




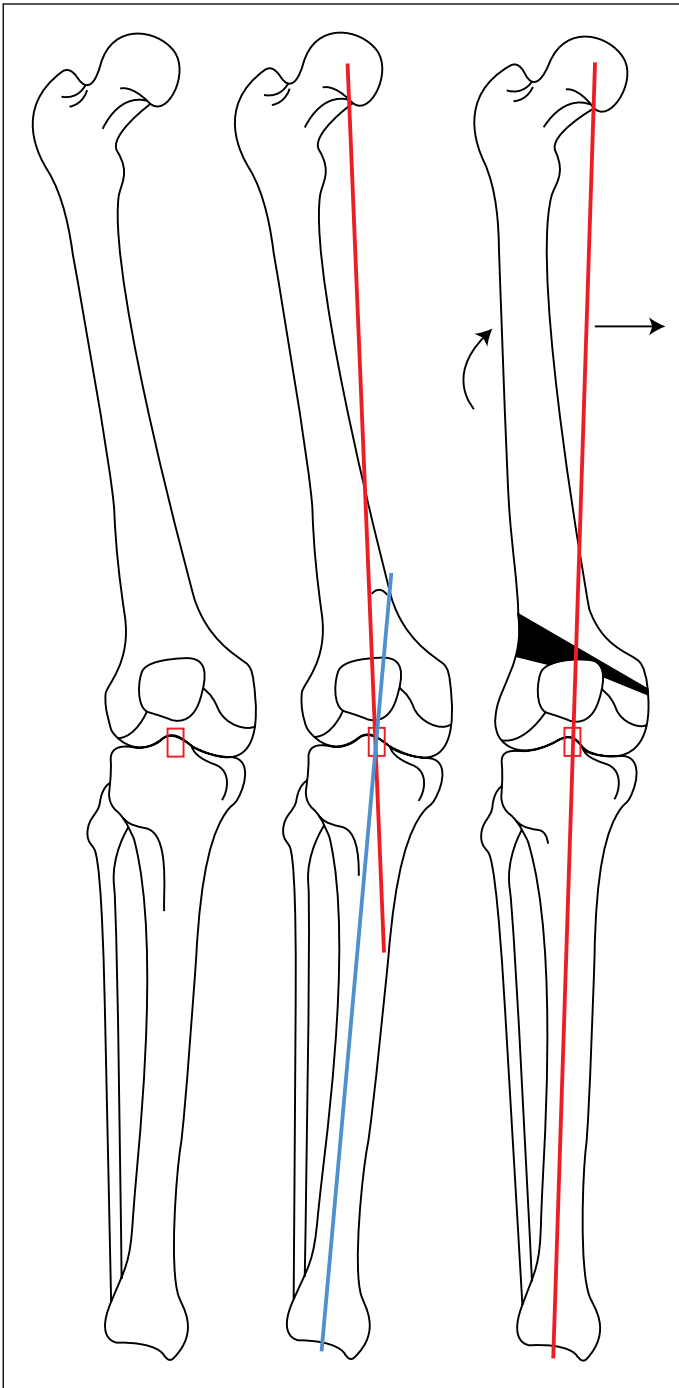
Femoral Opening Wedge Osteotomy System
with ContourLock Femoral Osteotomy Plate

Surgical Technique



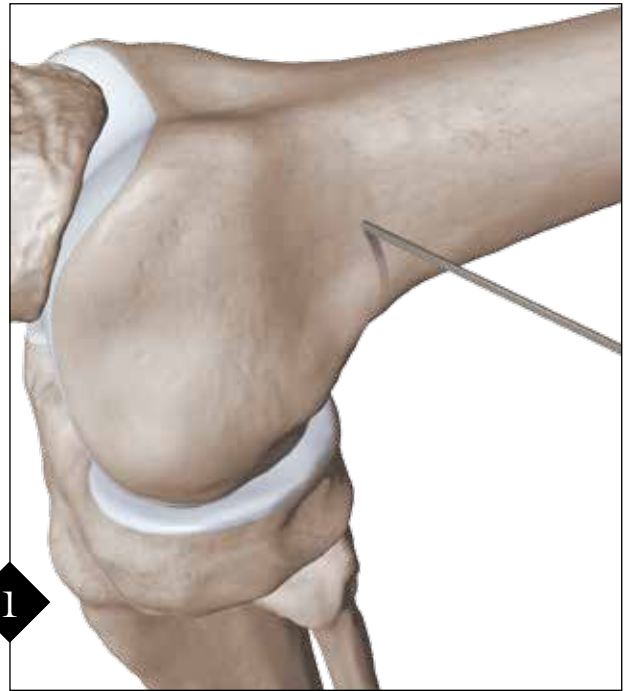
Opening Wedge Osteotomy

Femoral Opening Wedge Osteotomy System with ContourLock Femoral Osteotomy Plate

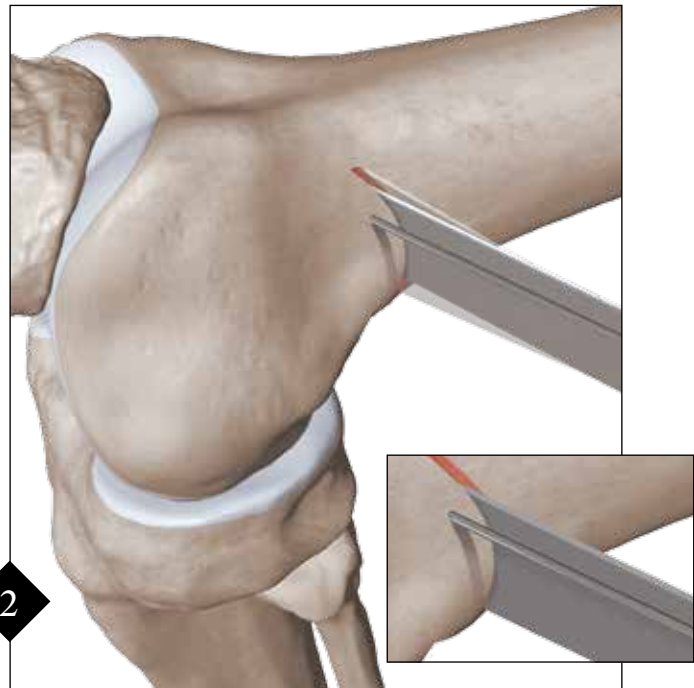


Using the full-length, standing A/P radiograph, select a target alignment point at the center of the knee joint.* A line is drawn from the center of the femoral head to a point in the center of the knee joint. A second line is drawn from the center of the tibial-talar joint to the same point in the center of the knee joint. The proximal angle formed by the intersection of these two lines determines the degree of correction required to return the patient's mechanical axis to the point of intersection. Prior to final fixation, the alignment will be verified by external examination and fluoroscopy.

**For a varus-producing, lateral opening wedge femoral osteotomy, this point is located between the 50-47% intersection of the proximal tibial width from the medial side.*



Insert a 2.4 mm break-away osteotomy guide pin under fluoroscopic control approximately 15 mm proximal to the femoral trochlea angled obliquely towards the medial epicondyle. An optional second pin may be placed parallel to the first under fluoroscopic control to preserve slope.

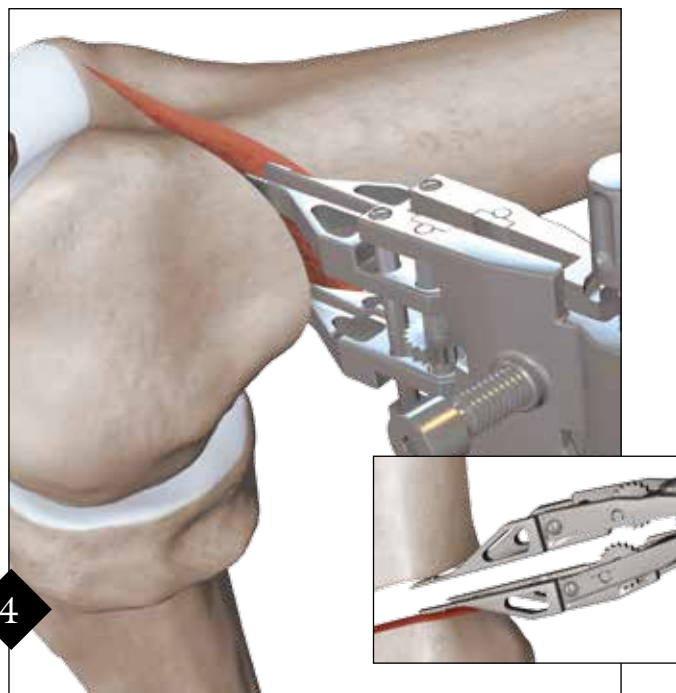


Start the osteotomy with a sagittal saw rupturing the lateral cortical bone. Utilize Flexible Osteotome Blades (available in various widths) to finish the osteotomy to the appropriate depth. Approximately 1 cm of medial bone should be preserved to minimize the risk of cortical hinge fracture.



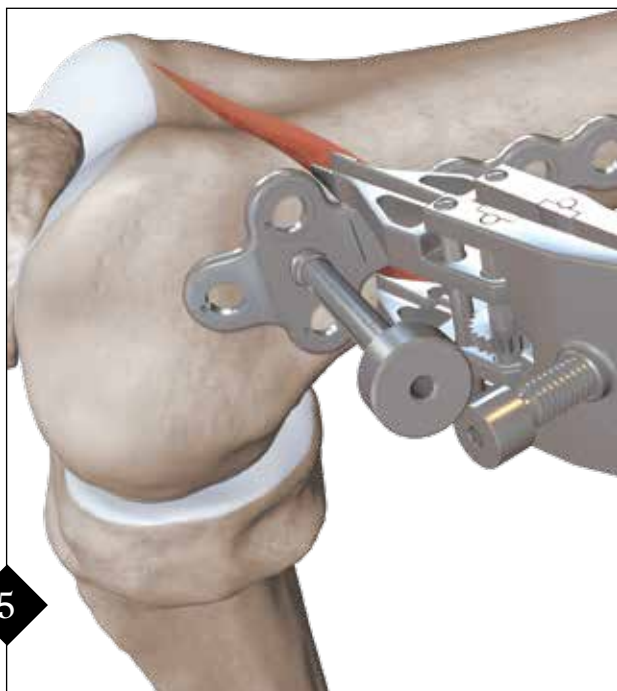
3

Insert the Osteotome Jack to open the osteotomy to the desired height. This can be measured directly with the wedge trial. The osteotomy should be opened slowly to preserve the medial cortex. Once the desired amount of correction is achieved, the Osteotome Jack can be removed.



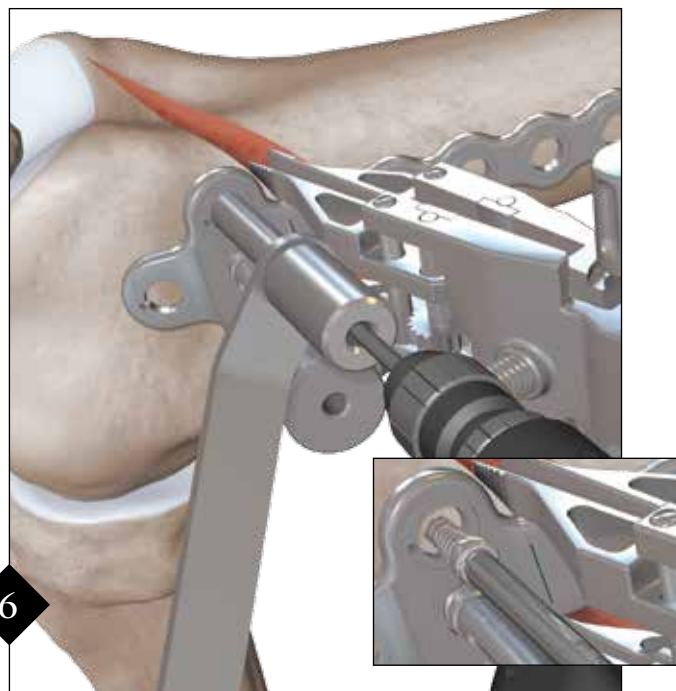
4

The Osteotomy Jack can be inserted into the osteotomy to support the correction while optional OSferion osteotomy wedges are inserted and the plate is positioned.



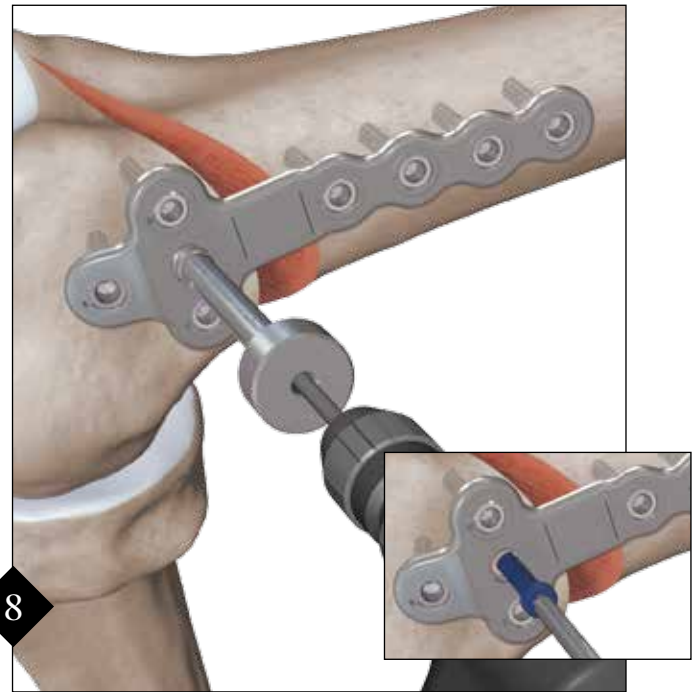
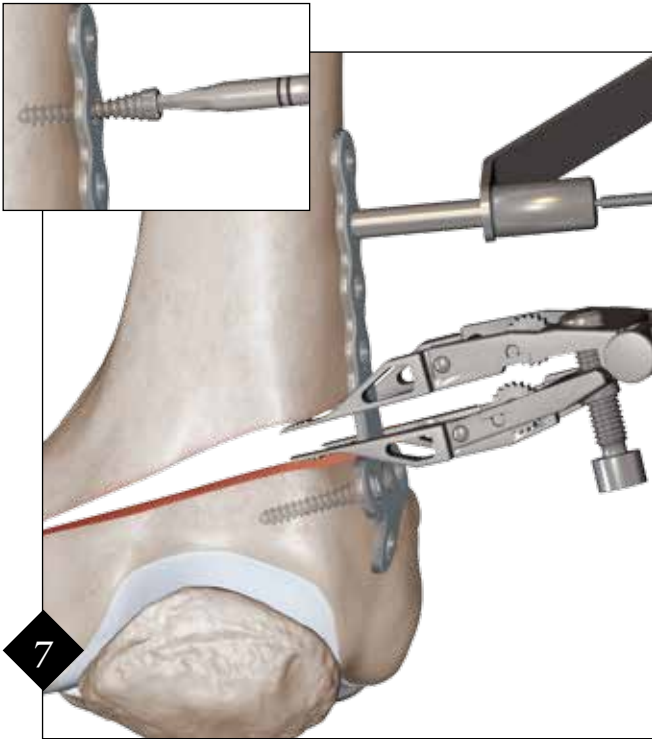
5

Select the appropriate size ContourLock Femoral Osteotomy Plate based on treatment side and amount of correction (S/M for corrections of 0-10 mm and L/XL for corrections of 10-20 mm). Position the plate between the tines of the Osteotomy Jack in a suitable position.



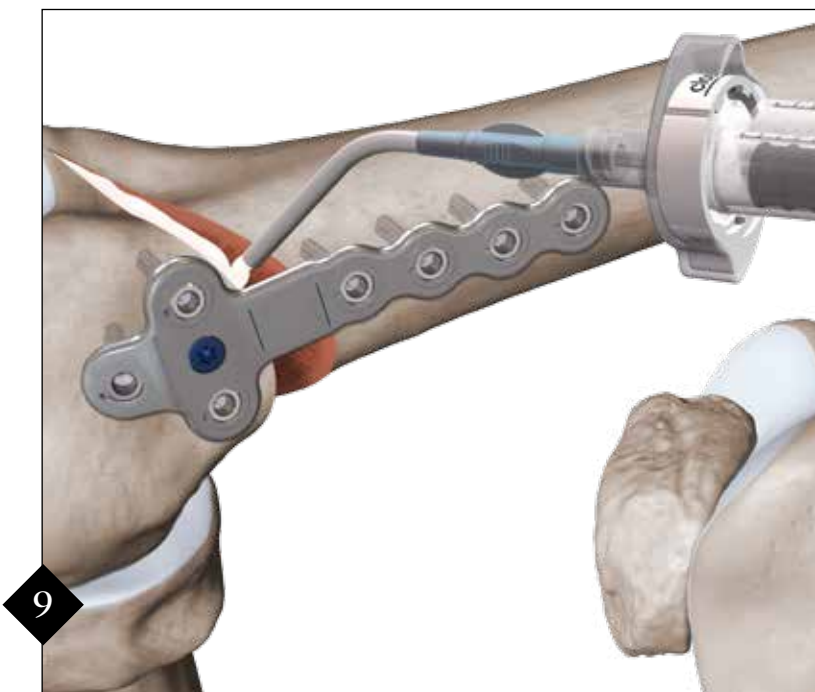
6

Three 6.5 mm cancellous screws are inserted distal to the osteotomy until flush with the plate. Utilize conventional fluoroscopic technique for predrilling, and depth device measurement to determine appropriate length and position.

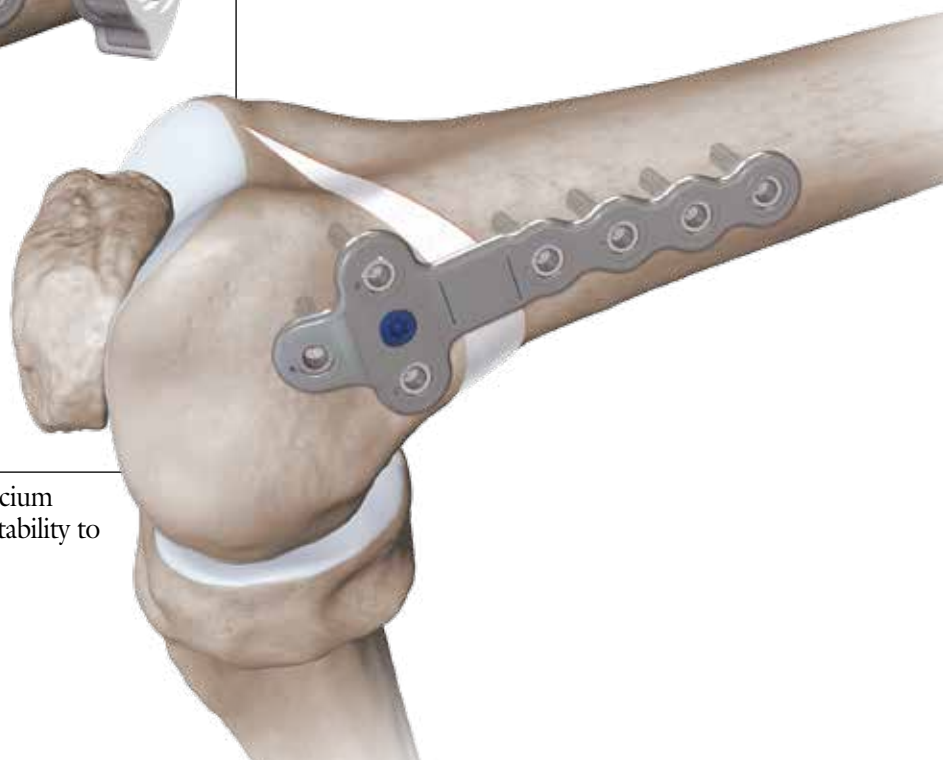


7 Follow by inserting up to four 4.5 mm cortical HTO Plate Screws proximal to the osteotomy until flush with the plate. Begin with the most distal available fixation hole and move proximally. Remove the Osteotomy Jack once the plate is securely fixed.

8 A fourth optional fixed-angle locking screw may be inserted distally if additional fixation is deemed appropriate. Screw length should be determined in the conventional technique similar to the other cancellous screws.



9 Arthrex Quickset™, an injectable macroporous calcium phosphate, may be utilized to provide additional stability to the osteotomy site.



Ordering Information

Osteotomy Set (AR-1330S) includes:

Radiolucent Army/Navy Retractors, qty. 2	AR-1330
Osteotomy Wedge	AR-13300
Osteotome Handle	AR-13301
Osteotomy Guide Pins, 2.4 mm, qty. 4	AR-13303-2.4
Femoral Osteotomy Retractor	AR-13309
Patella Tendon Retractor	AR-13312
Medial Retractor for HTO	AR-13313
Universal Handle Extractor	AR-13314
Cutting Guide for HTO	AR-13315
Bone Graft Tamp	AR-13317
Drill For HTO Titanium Screws, qty. 2	AR-13319
Drill Guide for HTO Titanium Plates	AR-13321
Osteotome Jack, 25 mm	AR-13323-25
Wedge Trial For HTO	AR-13324
Radiolucent Retractor, 38° Blunt Tip	AR-13325
Screwdriver, 3.5 mm Hex	AR-13326
Osteotomy Plate Bender	AR-13331
Femoral Osteotomy Plate Drill Guide	AR-13332
Osteotomy Jack	AR-13333
Flexible Osteotome Blades Handle	AR-13335
Key Elevator, 3/4"	AR-13336
PEEKPower HTO Plate Bone Spreader	AR-1340T
Posterior Elevator	AR-13411-02
ibalance® TKA, LMR Hex Driver	AR-605-8
Depth Device, large	AR-4167
Osteotomy Instrument Case	AR-13330C

Disposables

Flexible Osteotome Blade, 10 mm	AR-13302F-10
Flexible Osteotome Blade, 25 mm	AR-13302F-25
Flexible Osteotome Blade, 35 mm	AR-13302F-35

Osteotomy Plates

ContourLock Femoral Osteotomy Plate, right, S/M	AR-13110R-01
ContourLock Femoral Osteotomy Plate, right, L/XL	AR-13110R-02
ContourLock Femoral Osteotomy Plate, left, S/M	AR-13110L-01
ContourLock Femoral Osteotomy Plate, left, L/XL	AR-13110L-02

Titanium Screws

HTO Plate Screw, 4.5 mm x (26 mm–60 mm), cortical, 2 mm increments	AR-13380-26–60
HTO Plate Screw, 6.5 mm x (35 mm–70 mm), cancellous, 5 mm increments	AR-13280-35–70

Recommended Bone Graft Substitute

Arthrex Quickset, 5 cc Kit	ABS-3005
Arthrex Quickset, 8 cc Kit	ABS-3008
Arthrex Quickset, 16 cc Kit	ABS-3016
OSferion Osteotomy Wedge, 7 mm x 30 mm	AR-13370-1
OSferion Osteotomy Wedge, 10 mm x 30 mm	AR-13370-2
OSferion Osteotomy Wedge, 12 mm x 35 mm	AR-13370-3
OSferion Osteotomy Wedge, 15 mm x 35 mm	AR-13370-4

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.



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