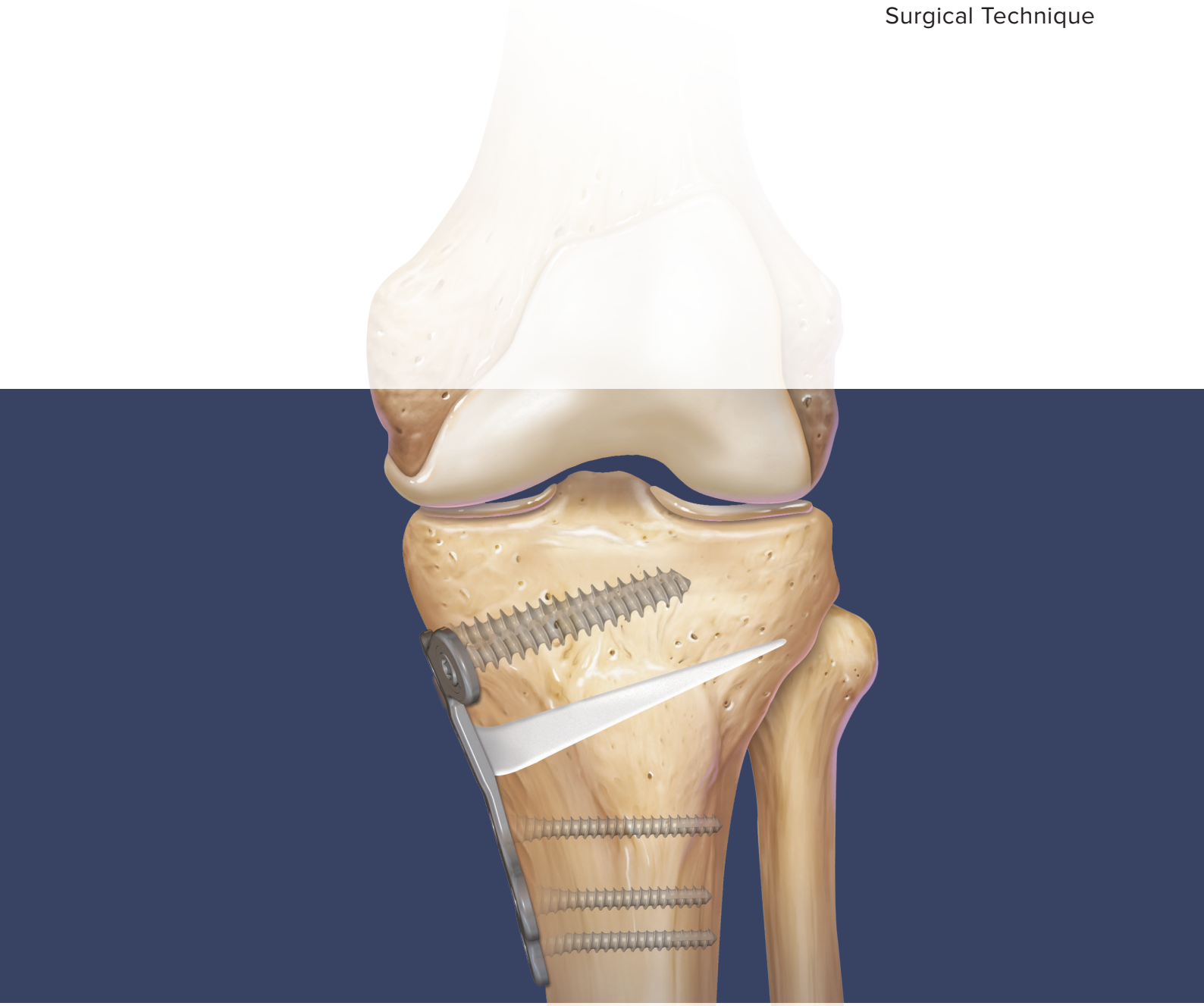
Opening Wedge Osteotomy

With ContourLock™ HTO Plate System

Surgical Technique



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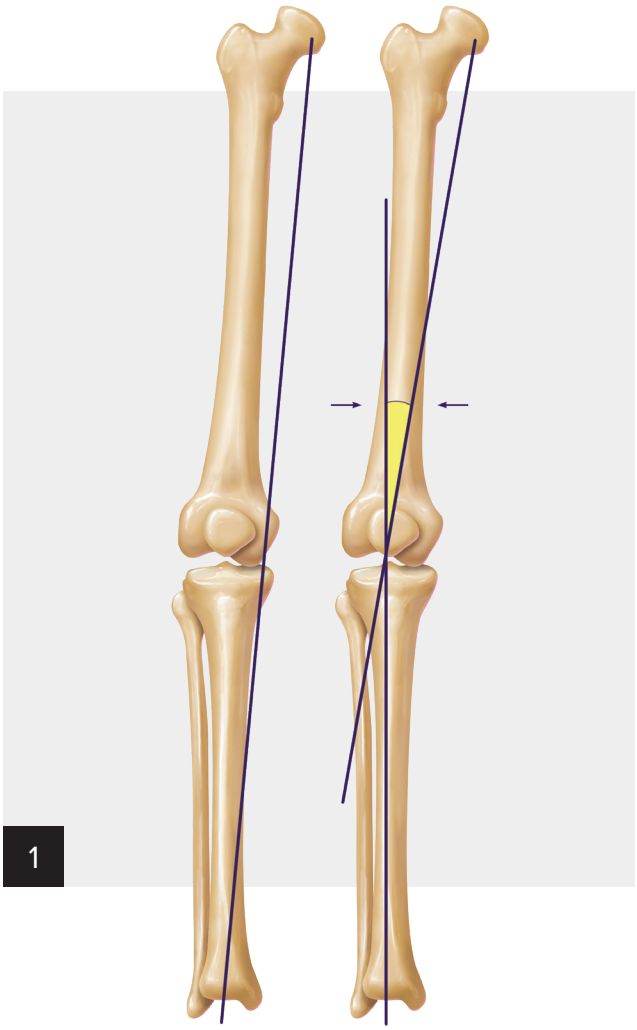
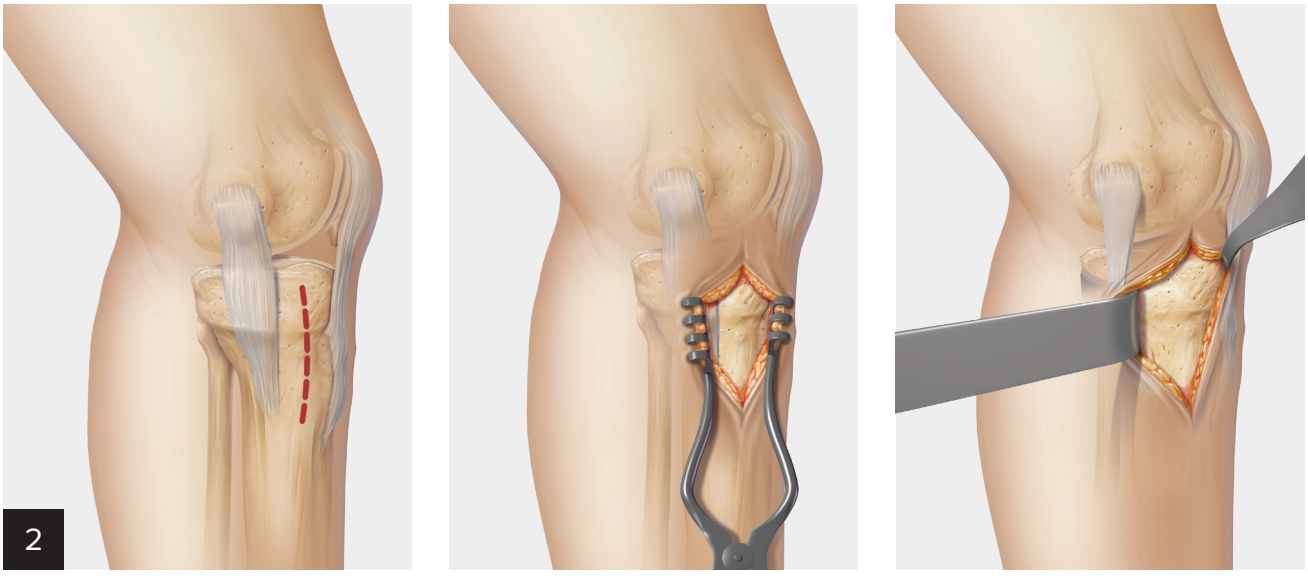


1

Opening Wedge Osteotomy With ContourLock™ HTO Plate System

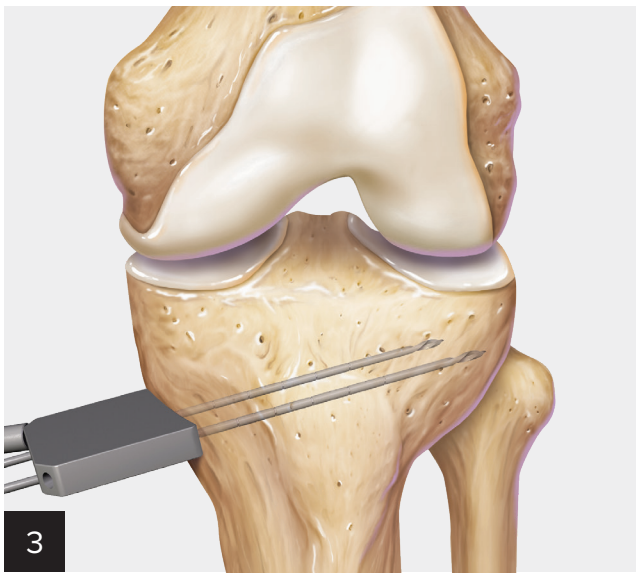
Using the full-length, standing A/P radiograph, draw a line from the center of the femoral head to the center of the tibiotalar joint. This demonstrates the patient's mechanical axis. Draw another line from the center of the femoral head to a point midway* in the lateral knee joint. Draw a final line from the center of the tibiotalar joint to the same point in the lateral knee joint. The 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 on the lateral side. Prior to final fixation, the alignment will be verified by external examination and fluoroscopy.

*This point is located at 62.5% of the width of the proximal tibia (ie, 80 mm [width of proximal tibia] x 0.625 = 50 mm).

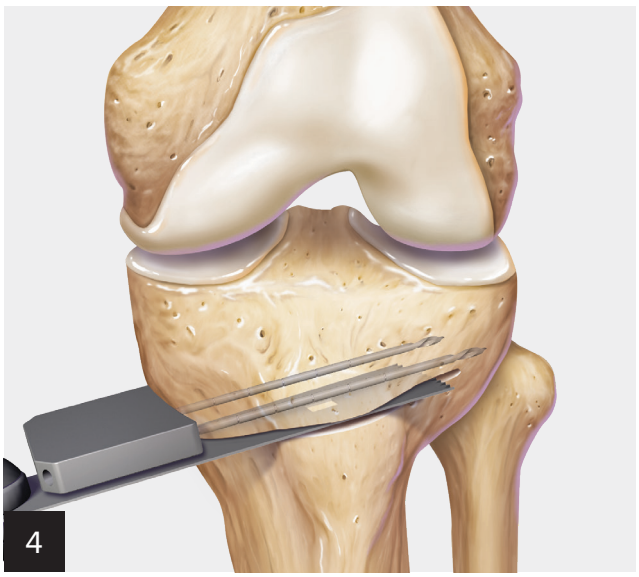


2

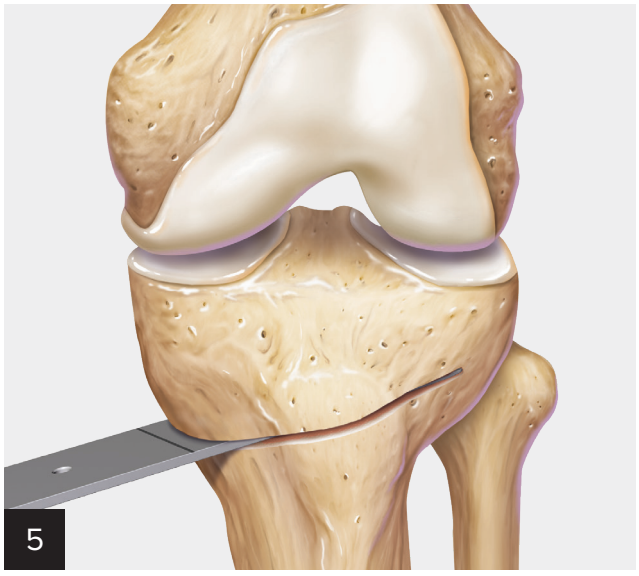
Make an incision between the MCL and the patellar tendon and the soft tissue is reflected down to the region of the superficial MCL.



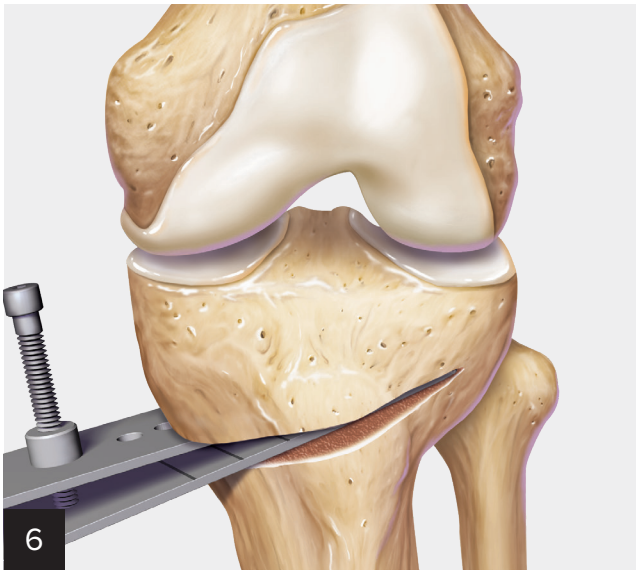
After reflecting back the superficial portion of the medial collateral ligament, position the cutting guide for HTO at the medial tibia above the level of the tibial tubercle. Two osteotomy guide pins are drilled through the guide to within 1 cm of the lateral cortex (angled toward the fibular head).



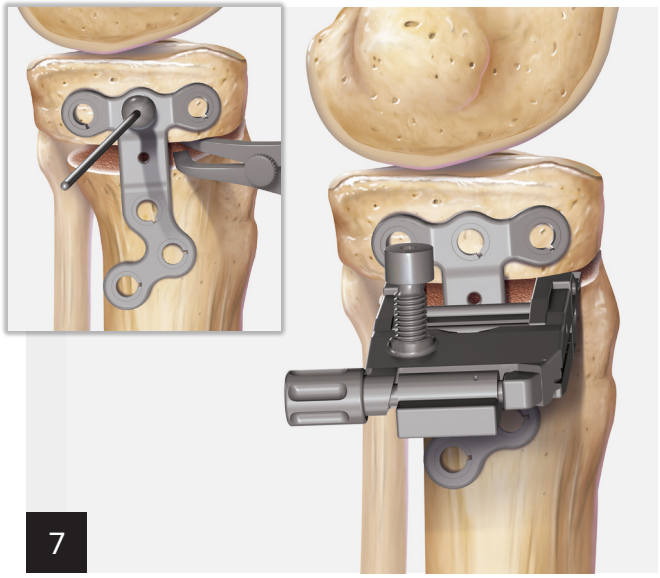
After proper posterior retraction and protection of the neurovascular structures, use an oscillating saw positioned against the inferior surface of the cutting guide to cut the tibial cortex medially, anteriorly, and posteriorly.



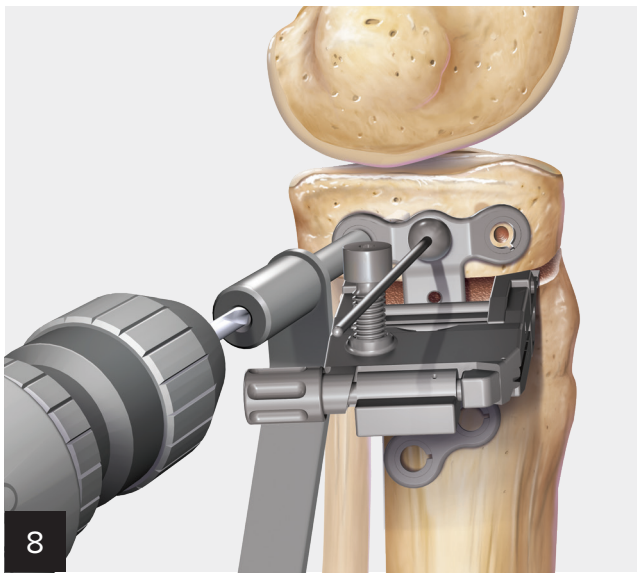
A single blade from the osteotome jack may be used to complete the osteotomy. Fluoroscopic confirmation should be checked repeatedly throughout the cutting process.



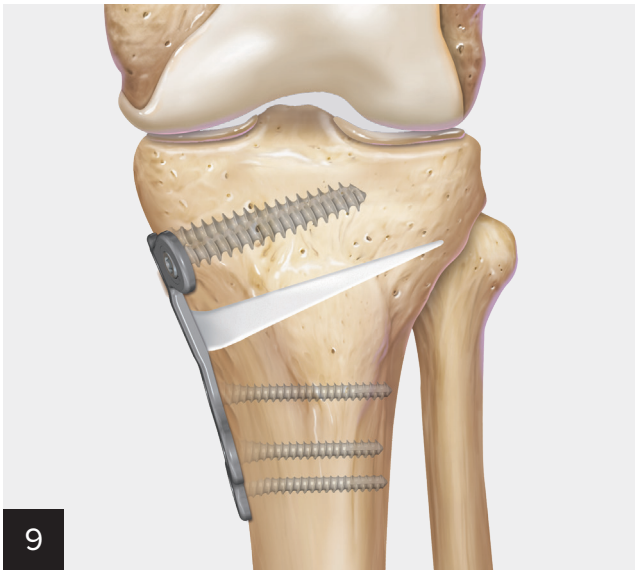
Insert both blades of the osteotome jack in the bone cut, aligning both blades to each other. Using the 3.5 mm hex screwdriver, turn the screw slowly, opening the osteotome jack to the desired correction (the wedge trial for HTO may be used to estimate the correction). Be sure to maintain the lateral tibial cortex hinge.



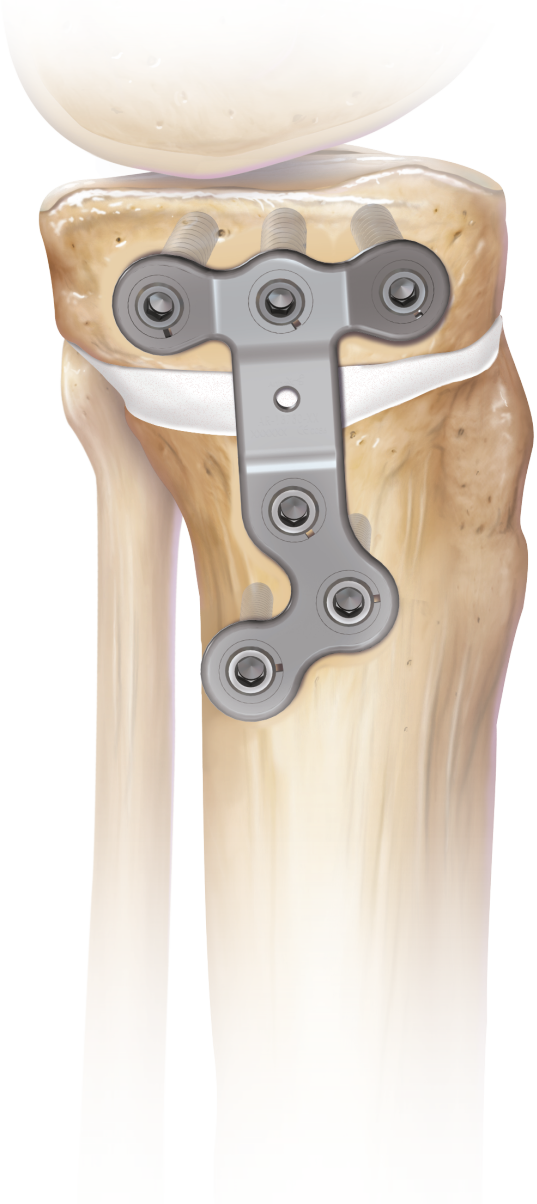
Apply the ContourLock™ HTO plate to the osteotomy and provisionally fixate with a large BB-Tak. Replace the osteotomes with the stabilizing opening jack or laminar spreader.



Insert the drill guide into the locking bushing and drill a hole to the appropriate screw depth (screw length is determined by visualizing the laser marks on the drill as it exits the drill guide). Install the proximal 6.5 mm cancellous screws first from posterior to anterior. The screws will lock into the bushings when fully seated.



Confirm satisfactory correction radiographically and insert the distal 4.5 mm cortical screws from proximal to distal. Quickset™* cement, an injectable macroporous calcium phosphate, may be used to provide additional stability to the osteotomy site.



*Quickset is a trademark of Graftys, S.A.

Ordering Information

HTO Plate Screws

Product Description	Item Number
4.5 HTO Plate Screws, Titanium, Cortical	
HTO Plate Screw 4.5 mm × 34 mm-58 mm Sizes: 34 mm, 36 mm, 38 mm, 40 mm, 42 mm, 44 mm, 46 mm, 48 mm, 50 mm, 52 mm, 54 mm, 56 mm, 58 mm	AR-**13380-34** to -**58**
6.5 HTO Plate Screws, Titanium, Cancellous	
HTO Plate Screw 6.5 mm × 35 mm-70 mm Sizes: 35 mm , 40 mm, 45 mm, 50 mm, 55 mm, 60 mm, 65 mm, 70 mm	AR-**13280-35** to -**70**

HTO Plate Screws

Product Description	Item Number
ContourLock™ HTO Plate, flat, left, 67 mm	AR-**13730-01**
ContourLock HTO Plate, flat, left, 71 mm	AR-**13730-02**
ContourLock HTO Plate, flat, left, 84 mm	AR-**13730-03**
ContourLock HTO Plate, flat, right, 67 mm	AR-**13735-01**
ContourLock HTO Plate, flat, right, 71 mm	AR-**13735-02**
ContourLock HTO Plate, flat, right, 84 mm	AR-**13735-03**

Bone Graft Substitute

Product Description	Item Number
Quickset™ Cement, 5 cc kit	ABS-**3005**
Quickset Cement, 8 cc kit	ABS-**3008**
Quickset Cement, 16 cc kit	ABS-**3016**
OSferion Osteotomy Wedge, 7 mm × 30 mm	AR-**13370-1**
OSferion Osteotomy Wedge, 10 mm × 30 mm	AR-**13370-2**
OSferion Osteotomy Wedge, 12 mm × 35 mm	AR-**13370-3**
OSferion Osteotomy Wedge, 15 mm × 35 mm	AR-**13370-4**

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