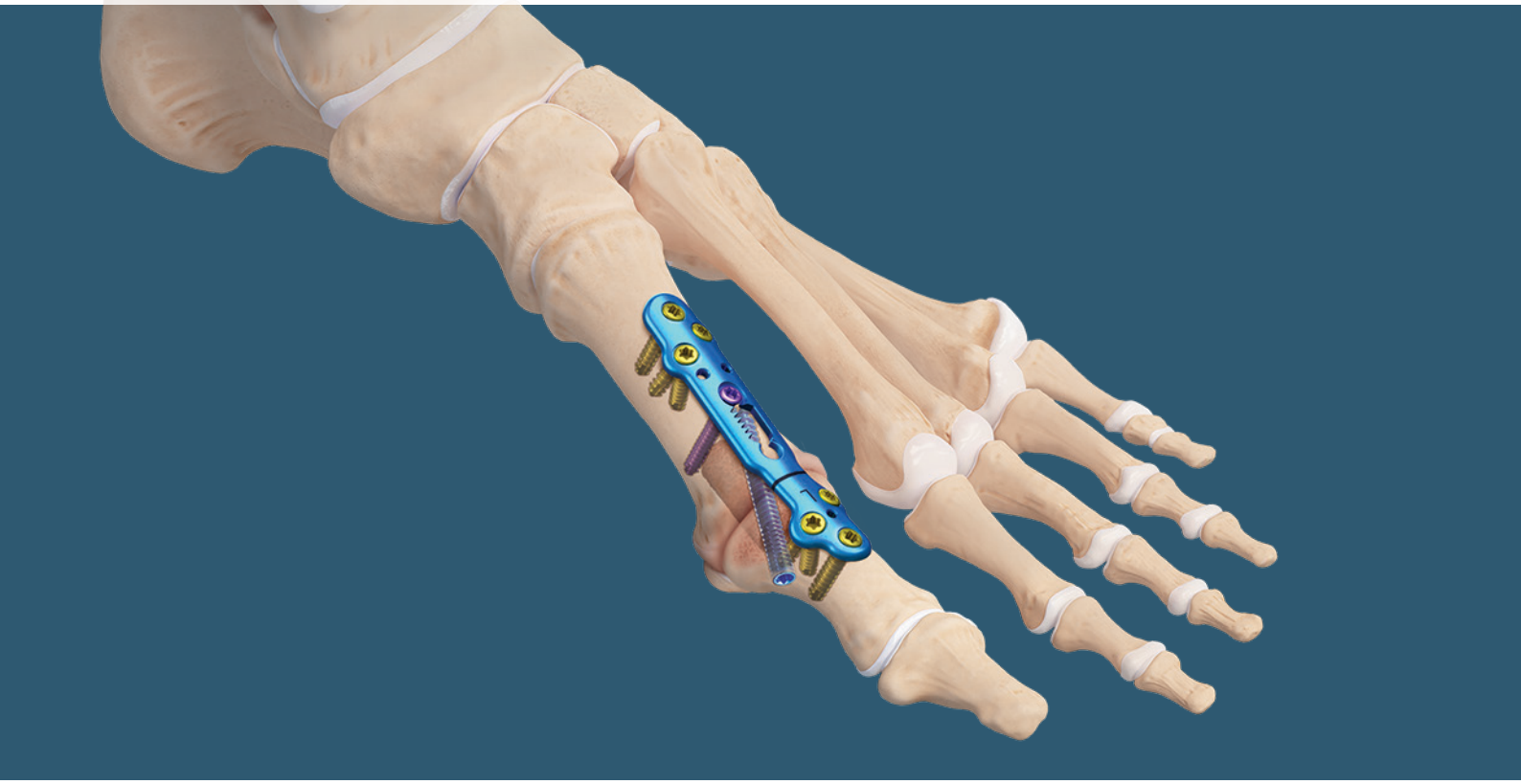
Cartiva Revision With an MTP Fusion

Surgical Technique



Arthrex®

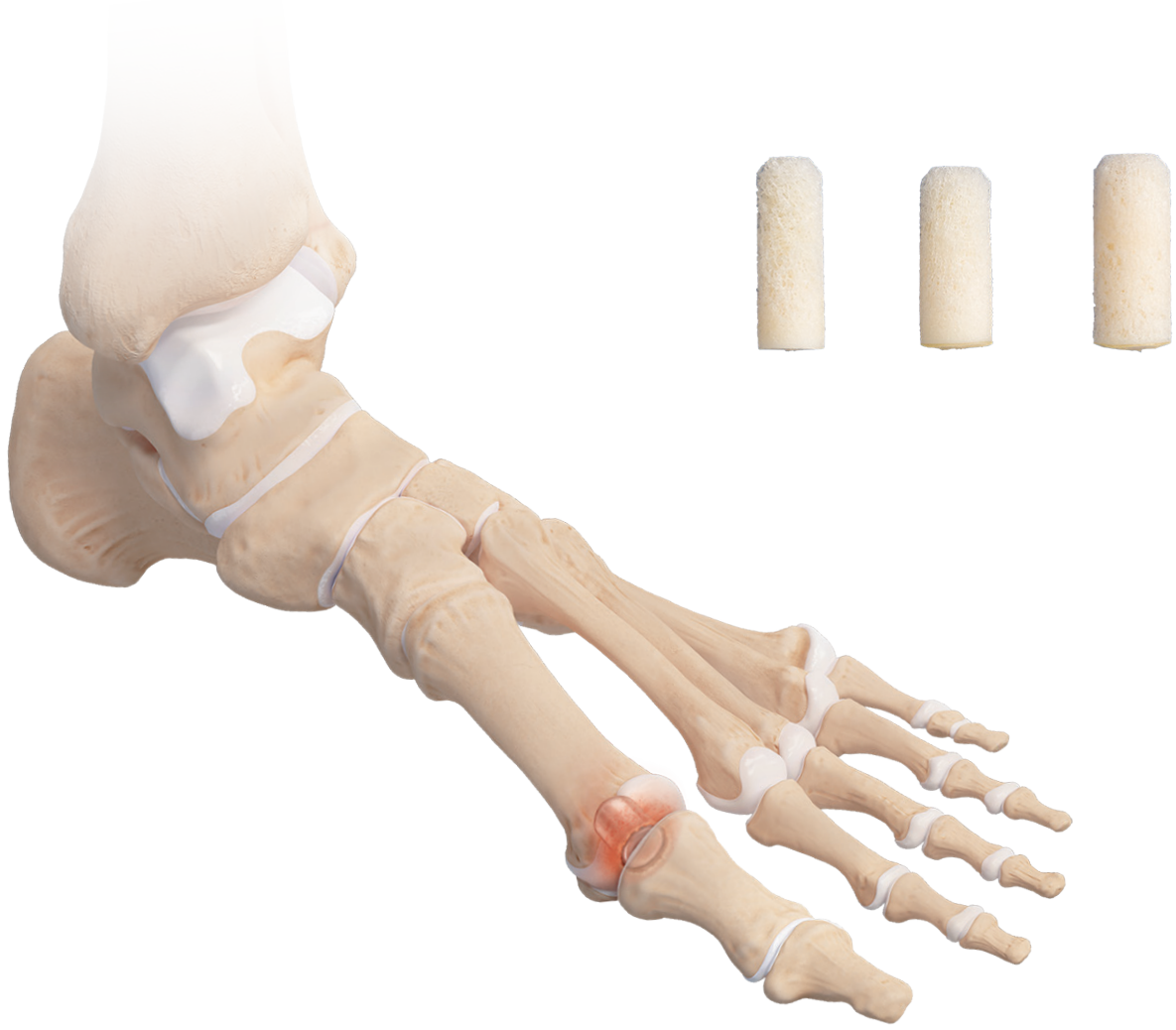
Cartiva Revision Technique

Introduction

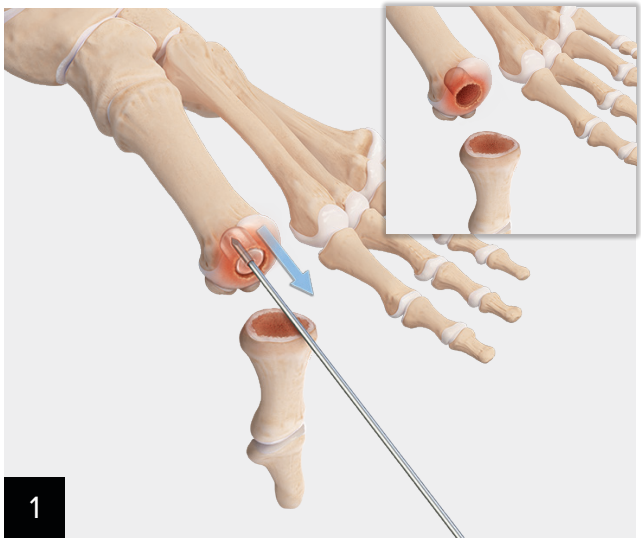
The following technique combines biologic and plating solutions to revise a failed Cartiva®* procedure. The Arthrex cannulated revision bone dowels offer surgeons a quick and effective solution for filling bone voids left from Cartiva implants, providing structural architecture for stability and a biologic component for healing and incorporation. One of Arthrex's multiple plating options can be paired with the bone dowel to help achieve a successful fusion.

The appropriate-sized bone dowel is selected based on the size of the removed Cartiva implant. Arthrex recommends using a bone dowel that is one size larger than the removed implant to allow for the reamer and cannulated graft to have a pressed fit within the canal of the metatarsal.

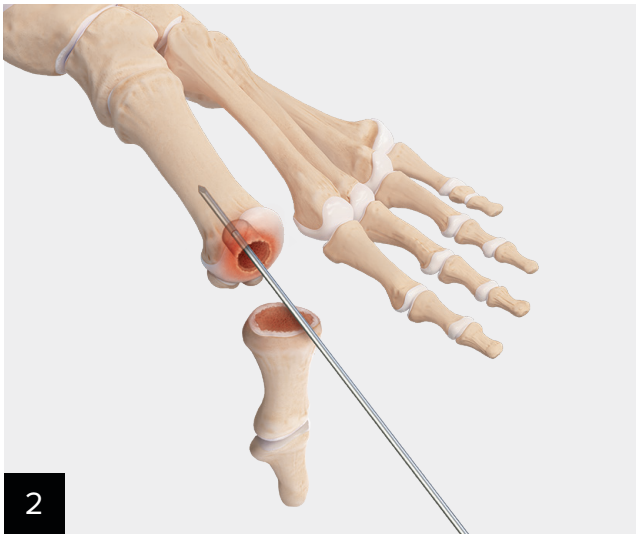
Cartiva Implant Size	Corresponding Cannulated Revision Bone Dowel		Arthrex Revision Bone Dowel Kit
8 mm	9 mm	PCD9	ABS-**2850-09**
10 mm	11 mm	PCD11	ABS-**2850-11**
12 mm	13 mm	PCD13	ABS-**2850-13**



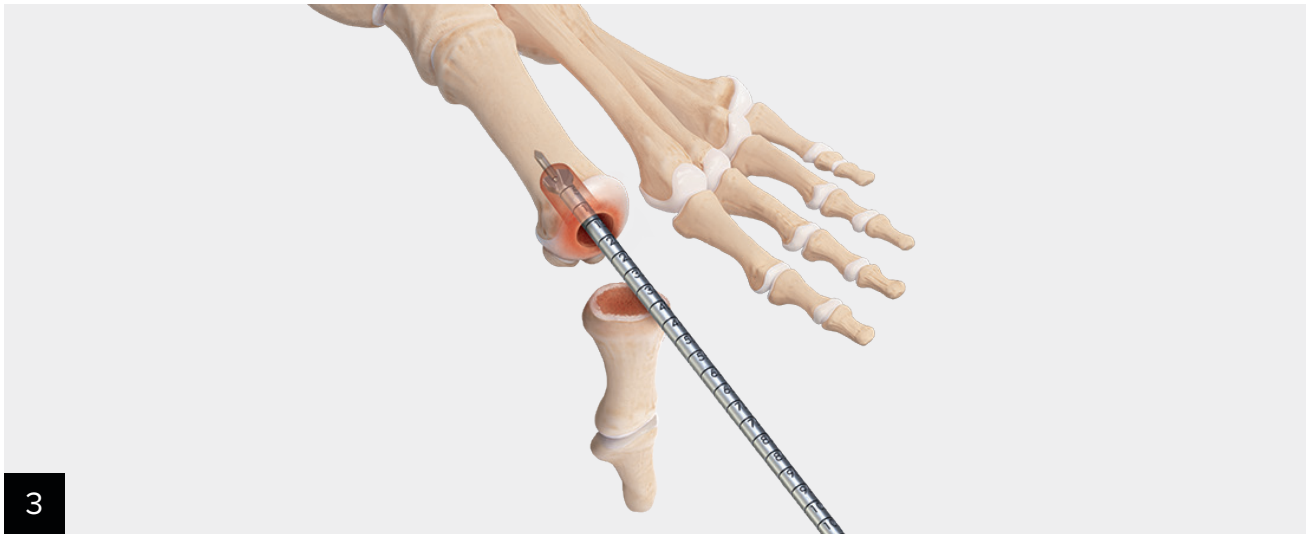
* Cartiva is a trademark of Wright Medical Group N.V.



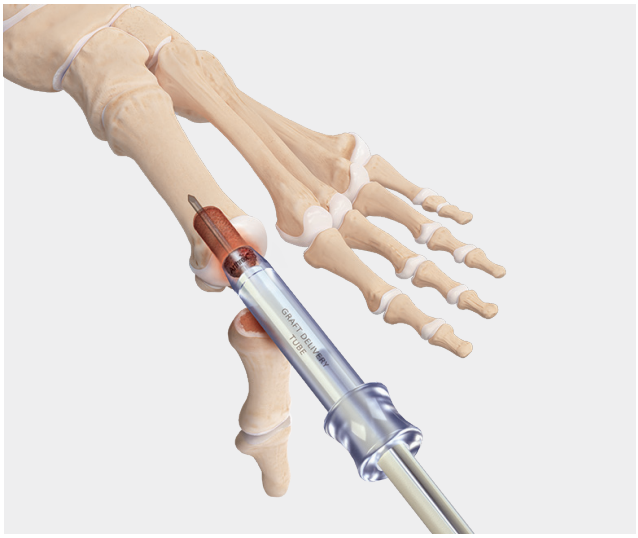
Initially, remove the Cartiva implant from the metatarsal by placing a K-wire centrally in the implant to assist in removal.



Insert a 1.6 mm guidewire centrally through the original bone tunnel and into the central axis of the metatarsal canal.

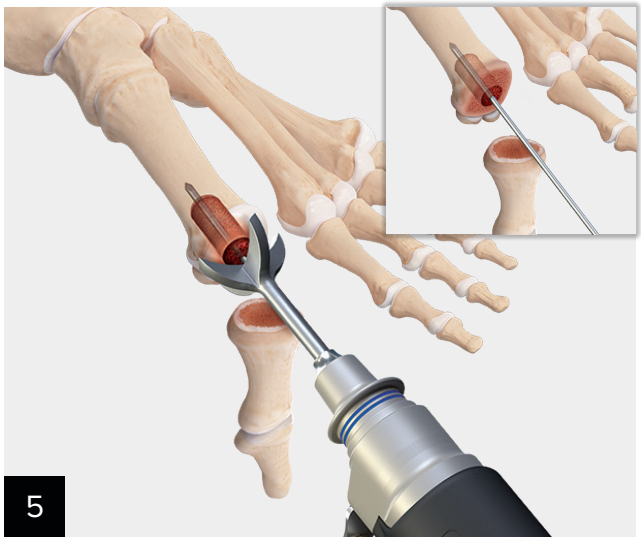


Next, drill with the appropriate-sized cannulated headed reamer, at least 1 mm larger than the removed Cartiva implant that also coincides with the appropriate-diameter bone dowel. Drill at least 5 mm proximal to the original depth of the Cartiva implant.

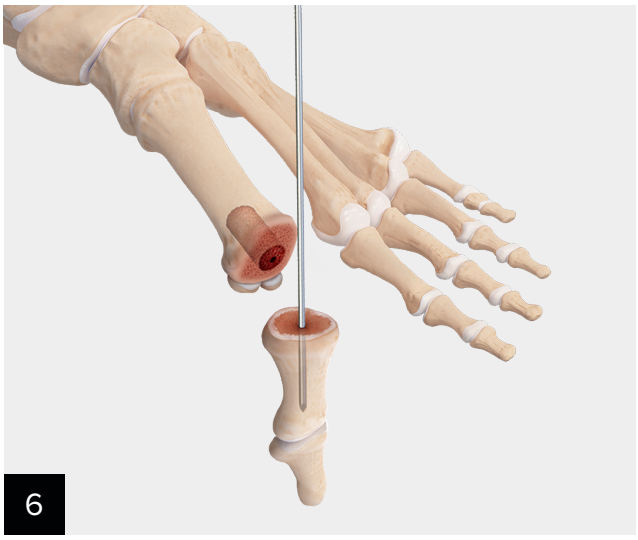


Leaving the wire in place, insert the cannulated bone dowel over the 1.6 mm wire and tamp the implant into place with the tamp and cannula. The optional graft delivery tube may be used to facilitate delivery of the bone dowel.

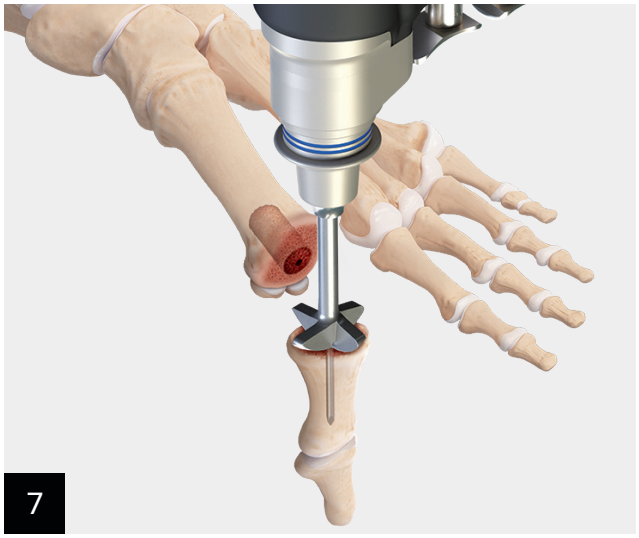
Note: It is typical for the bone dowel to be proud upon insertion.



Finally, use the cannulated metatarsal reamer to shape the bone dowel and simultaneously debride the remaining cartilage from the metatarsal to properly prepare the joint for fusion.



Insert a 1.6 mm K-wire into the center of the proximal phalanx.



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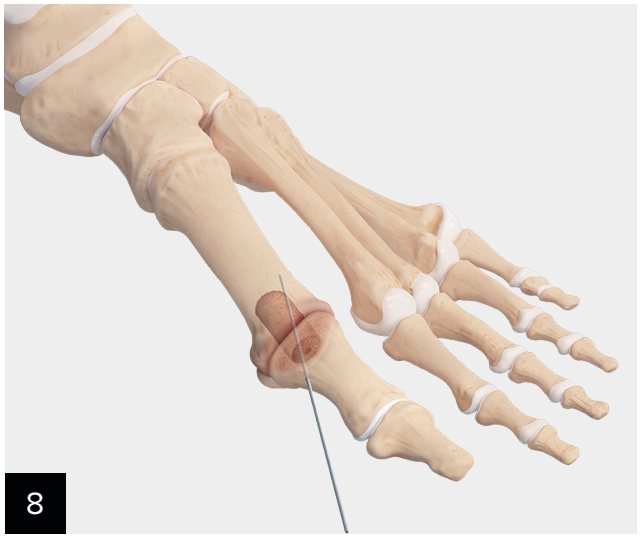
Use the convex phalangeal reamer over the K-wire to shape the base of the proximal phalanx.



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Anatomically reduce and pin the toe in the proper position.

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Final fixation.

Ordering Information

Bone Dowel Revision Kits

Product Description	Item Number
Kits contain a cannulated bone tamp, 2.4 mm guide pin, delivery tube, and cannulated reamer	
Bone Dowel Revision Kit, 9 mm	ABS-**2850-09**
Bone Dowel Revision Kit, 10 mm	ABS-**2850-10**
Bone Dowel Revision Kit, 11 mm	ABS-**2850-11**
Bone Dowel Revision Kit, 12 mm	ABS-**2850-12**
Bone Dowel Revision Kit, 13 mm	ABS-**2850-13**

Cannulated Revision Bone Dowels

Bone Dowel Diameter	Standard Length (25-29 mm)
Cannulated Revision Bone Dowel, 9 mm	PCD**9**
Cannulated Revision Bone Dowel, 10 mm	PCD**10**
Cannulated Revision Bone Dowel, 11 mm	PCD**11**
Cannulated Revision Bone Dowel, 12 mm	PCD**12**
Cannulated Revision Bone Dowel, 13 mm	PCD**13**

FlexiGRAFT® cannulated revision dowels must be ordered through LifeNet Health Customer Service at 888-847-7831.

Low Profile MTP Plates

Product Description	Item Number
Low Profile MTP Plate, contoured, standard, left	AR-**8944CL-S**
Low Profile MTP Plate, contoured, standard, right	AR-**8944CR-S**
Low Profile MTP Plate, contoured, long, left	AR-**8944CL-L**
Low Profile MTP Plate, contoured, long, right	AR-**8944CR-L**
Low Profile MTP Plate, contoured, short, left	AR-**8944CL-P**
Low Profile MTP Plate, contoured, short, right	AR-**8944CR-P**
Low Profile MTP Plate, straight, standard	AR-**8944-S**
Low Profile MTP Plate, straight, long	AR-**8944-L**
Low Profile MTP Plate, straight, short	AR-**8944-P**

MaxForce™ MTP Compression Plate Caddy (AR-8950C-37)

Product Description	Item Number
Plates – Straight	
MaxForce MTP Compression Plate, Petite, 0° valgus, 0° dorsiflex, left	AR-**9944P-0L**
MaxForce MTP Compression Plate, Petite, 0° valgus, 0° dorsiflex, right	AR-**9944P-0R**
MaxForce MTP Compression Plate, Std, 0° valgus, 0° dorsiflex, left	AR-**9944S-0L**
MaxForce MTP Compression Plate, Std, 0° valgus, 0° dorsiflex, right	AR-**9944S-0R**
MaxForce MTP Compression Plate, Long, 0° valgus, 0° dorsiflex, left	AR-**9944L-0L**
MaxForce MTP Compression Plate, Long, 0° valgus, 0° dorsiflex, right	AR-**9944L-0R**
MaxForce MTP Compression Plate, Revision, 0° valgus, 0° dorsiflex, left	AR-**9944X-0L**
MaxForce MTP Compression Plate, Revision, 0° valgus, 0° dorsiflex, right	AR-**9944X-0R**
Plates – Dorsiflex and Valgus	
MaxForce MTP Compression Plate, Petite, 5° valgus, 5° dorsiflex, left	AR-**9944P-5L**
MaxForce MTP Compression Plate, Petite, 5° valgus, 5° dorsiflex, right	AR-**9944P-5R**
MaxForce MTP Compression Plate, Std, 5° valgus, 5° dorsiflex, left	AR-**9944S-5L**
MaxForce MTP Compression Plate, Std, 5° valgus, 5° dorsiflex, right	AR-**9944S-5R**
MaxForce MTP Compression Plate, Long, 5° valgus, 5° dorsiflex, left	AR-**9944L-5L**
MaxForce MTP Compression Plate, Long, 5° valgus, 5° dorsiflex, right	AR-**9944L-5R**
MaxForce MTP Compression Plate, X-Long, 5° valgus, 5° dorsiflex, left	AR-**9944X-5L**
MaxForce MTP Compression Plate, X-Long, 5° valgus, 5° dorsiflex, right	AR-**9944X-5R**
Plates – Revision	
MaxForce MTP Compression Plate, Revision, straight	AR-**9944X-LS**
MaxForce MTP Compression Plate, Revision, straight 5° dorsiflex	AR-**9944X-LD**
Screws, 3.0 mm, Titanium	
Flathead, cortical, MTP, 3.0 mm × 10 mm – 26 mm (2 mm increments)	AR-**9933-10 – 26**
Flathead, cortical, MTP, hybrid, 3.0 mm × 10 mm – 26 mm (2 mm increments)	AR-**9933HY-10-26**
Disposables	
BB-Tak, MTP	AR-**13227**
BB-Tak, MTP, threaded	AR-**13227T**
Drill Bit, 2.0 mm, qty. 2	AR-**8944-22**
Drill Bit, 2.5 mm, qty. 2	AR-**8933HD**
Guidewire w/ Trocar Tip, 1.1 mm, qty. 6	AR-**8737-41**