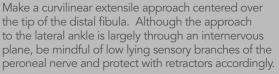


Brostrom Repair using Draw Tight™ DEX Suture-Based Anchors Ligament Augmentation Repair using Twist SST PEEK Screw-In Anchor with Twist Knotless DEX PEEK Screw-In Anchor Surgical Technique Guide

Brostrom Repair using Draw Tight DEX Suture-Based Anchors

\* Position the patient in a supine position with a bump under the ipsilateral hip. General anesthesia can be used along with a tourniquet. If arthroscopy is indicated prior to the open repair, take care to protect the branches of the superficial peroneal nerve with the development and use of the lateral portal. Examine and identify any intra-articular pathology that needs to be addressed prior to proceeding with the open portion of the case.

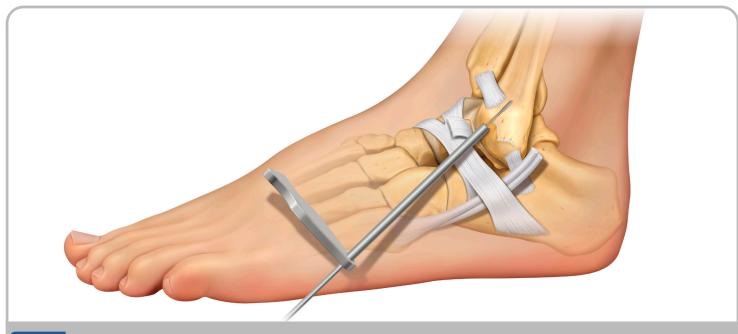




step



Detach the anterior talofibular ligament (ATFL) footprint from the fibula through sharp dissection.
Use a rongeur to decorticate the surrounding bone to promote healing.



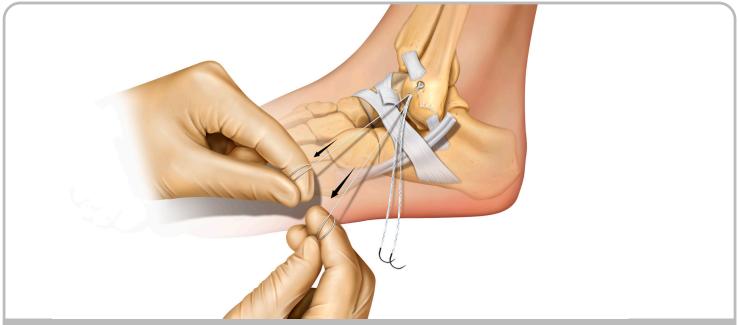
Drill the distal fibula using the beaver tail handle drill guide (10823) and the 1.8mm drill bit (10873U). Consideration should be given to the angle of the drill. The drill should be directed anterior to posterior and slightly lateral to avoid penetrating the medial cortex or violating the inner joint space. Advance the drill bit until the positive stop contacts the drill guide handle.

Brostrom Repair using Draw Tight DEX Suture-Based Anchors



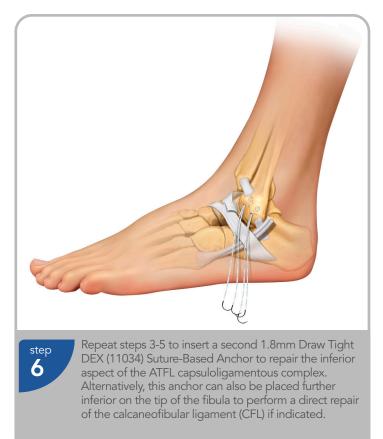
step 4

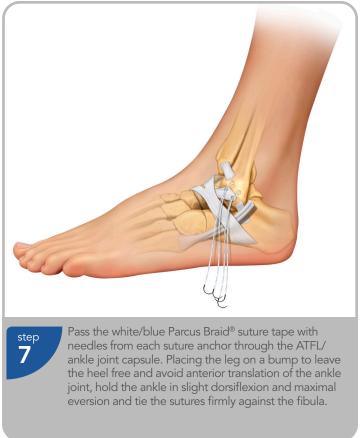
Leave the drill guide in place and insert the 1.8mm Draw Tight DEX (11034) Suture-Based Anchor through the drill guide into the prepared hole in the distal fibula. Mallet the suture anchor through the drill guide to the positive stop on the implant handle. Release the sutures and needles, freeing them from the implant handle.



step 5 The drill guide and implant handle may be removed. Identify the all-white sutures. Deploy the implant by pulling one of the white sutures until solid resistance is felt. Pull the second white suture in the same fashion to secure the anchor in bone for initial deployment. Following deployment, drop the white sutures and pull the blue and white striped sliding sutures to confirm fixation. Alternatively, the implant handle may be left in the socket (after the sutures and needles have been freed from the handle). The all-white sutures are pulled one at a time until solid resistance to the movement of the suture is felt. Then the blue and white striped sliding sutures may be pulled to confirm implant fixation.

Brostrom Repair using Draw Tight DEX Suture-Based Anchors





### **Alternative Implant Options:**

#### 3.2MM DRAW TIGHT

The 3.2mm Draw Tight (11288 or 11289) may be used instead of the 1.8mm Draw Tight DEX. Use associated drill (10505U) and drill guide (10823) to prepare bone for 3.2mm implant. (Free needle is required for the 3.2mm Draw Tight implant.)

#### 3.5MM PEEK CF PUSH-IN ANCHOR W/NEEDLES

Alternatively, the 3.5mm PEEK CF Push-In Anchor w/Needles (10407) may be used in place of the 1.8mm Draw Tight DEX. The following steps may be performed to incorporate the 3.5mm PEEK CF implant into the technique.

Use the 3mm drill with positive stop (10482U) and 8-point drill guide with beaver tail handle (10823) to prepare the distal fibula for a 3.5mm PEEK CF Push-In Anchor with two #2 Parcus Braid w/Needles (10407). Insert the 3.5mm PEEK CF Push-In Anchor.

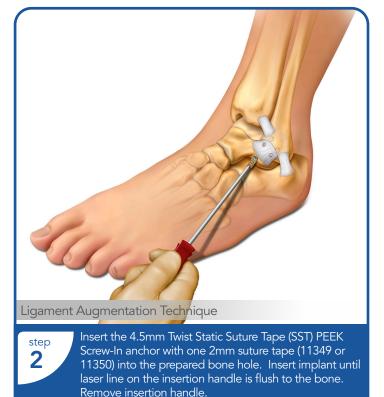
Ligament Augmentation Repair using Twist PEEK Screw-In Anchor with Twist Knotless DEX PEEK Screw-In Anchor

#### **OPTIONAL LIGAMENT AUGMENTATION TECHNIQUE:**

\* Strategic placement of anchors within the footprint of the distal fibula should be planned to avoid convergence of anchors when performing an augmented repair.



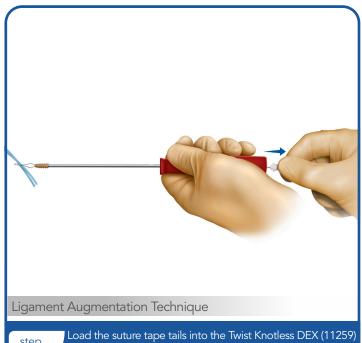
step 1 Drill the lateral talus using the 4mm drill guide (11241) and the 4mm drill bit (11000U). The drill should be positioned at a 10° to 20° angle up from the plantar surface of the foot and at a 45° angle into the body of the talus to safely avoid the subtalar joint. For further assistance, utilize fluoroscopy to confirm appropriate trajectory and starting point placement. Advance the drill bit until the positive stop contacts the drill guide handle. Tap the talus using the 4.5mm tap (10609).



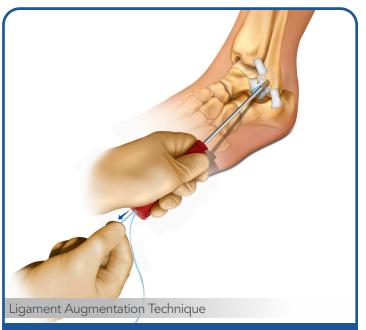


step 3 Drill a proximal hole into the fibula using the 4mm drill guide (11241) and the 4mm drill bit (11000U). This should be placed slightly lateral to the capsular repair suture construct to avoid disruption or crowding of that repair. Consideration should also be given to the angle of the drill. The drill should be directed anterior to posterior and slightly lateral of the midline to avoid penetrating the medial fibular cortex and damaging the lateral ankle joint. Advance the drill bit until the positive stop contacts the drill guide handle.

Ligament Augmentation Repair using Twist PEEK Screw-In Anchor with Twist Knotless DEX PEEK Screw-In Anchor

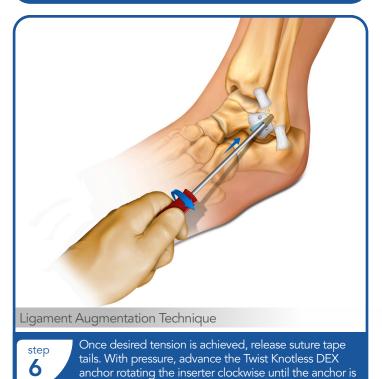


step 4 Load the suture tape tails into the Twist Knotless DEX (11259) suture threader. The threader tab is pulled to shuttle the sutures through the cannulation of the Twist Knotless DEX anchor body and inserter.



step 5

While applying light tension on the suture tape tails, introduce the Twist Knotless DEX anchor into the proximal fibula. While maintaining position of the Twist Knotless DEX insertion handle, pull the suture tape tails individually to set desired tension.



fully inserted and flush with the bone. Proper insertion

depth is marked by the horizontal laser line on the

inserter shaft.



step 7 Once the Twist Knotless DEX anchor is fully seated to the desired depth, disengage the driver by pulling back. Cut suture tape tails to complete the ligament augmentation repair.

Brostrom Repair using Draw Tight DEX Suture-Based Anchors and Knotless PEEK CF Anchor

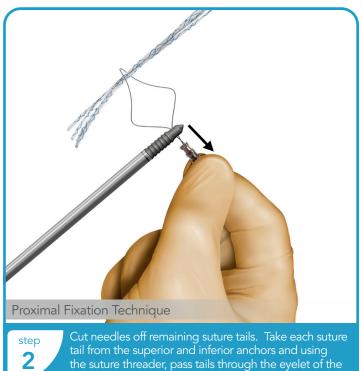
#### **OPTIONAL PROXIMAL FIXATION:**

\*A suture bridge construct with use of knotless anchor(s) may be incorporated to further strengthen the repair construct, optimize tissue to bone surface area contact and healing, and minimize any prominence of knots.



For proximal fixation, a 3.5mm Knotless PEEK CF anchor (10994) may be used to provide additional fixation in combination with the suture anchors.

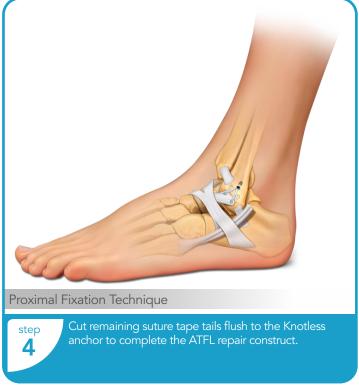
Drill the proximal hole into the fibula using the beaver tail handle drill guide (10823) and the 3mm drill bit with positive stop (10482U) to prepare the hole for the Knotless anchor.



Knotless PEEK CF anchor.

Proximal Fixation Technique

step
3 Hold the ankle in slight dorsiflexion and maximal eversion to tension the suture tapes and insert the Knotless PEEK CF anchor into the prepared anterior proximal fibula hole.



Alternatively, two 2.8mm Knotless PEEK CF anchors (10312) may be used for a proximal double row configuration using the beaver tail handle drill guide (10823) and the 2.8mm drill bit with positive stop (10874U) to prepare two holes proximal to the Draw Tight anchors.

In this configuration, take one suture tail from each Draw Tight anchor, passing the tails through the eyelet of the 2.8mm Knotless PEEK CF anchor using the suture threader. Perform this same step for the corresponding 2.8mm Knotless anchor to create a bridging construct.

# **Draw Tight** Suture-Based Anchors



Draw Tight Suture-Based Anchors are recommended for use in both large and small-joint repairs. Made with UHMWPE and PEEK-OPTIMA® Natural power tip.

## Features & Benefits

### Small insertion footprint & sub-cortical fixation

Bone sparing

#### Deployment sutures

• Tactile confirmation the anchor has been successfully deployed **PEEK power tip** 

• Delivers improved insertion and a solid core for stronger fixation

Draw Tight DEX Suture-Based Anchors				
Part #	Diameter (mm)	Description	Material	
11034	1.8	Draw Tight DEX, push-in, suture anchor, w/1, 1.6mm suture tape (wht/blu), w/needles (MO-6)	UHMWPE & PEEK	

Instrumentation for Draw Tight DEX Suture-Based Anchors						
Part #	Diameter (mm)	Description	Sterile/ Non-sterile	Single-use/ Reusable		
10873U	1.8	1.8 Draw Tight, drill bit, w/positive stop	Non-sterile	Reusable		
10823	-	8-point slotted drill guide, w/beaver tail handle	Non-sterile	Reusable		



## Twist SST PEEK Screw-In Suture Anchor



Twist PEEK Screw-In Suture Anchors are recommended for use in both large and small-joint repairs.

### Features & Benefits

### Fully-threaded design

- · Optimal cortical fixation
- · Reduces the risk of "pull-back"

#### Made of PEEK-OPTIMA Natural

- Non-absorbable
- Bio-inert\*
- Radiolucent
- MR safe

Twist SST PEEK Screw-In Suture Anchors w/One Static 2mm Suture Tape					
Part #	Diameter (mm)	Description	Material		
11349	4.5	Twist SST, screw-in, suture anchor, w/1 static 2mm suture tape (blu)	PEEK		
11350	4.5	Twist SST, screw-in, suture anchor, w/1 static 2mm suture tape (blk)	PEEK		
11351	5.5	Twist SST, screw-in, suture anchor, w/1 static 2mm suture tape (blu)	PEEK		
11352	5.5	Twist SST, screw-in, suture anchor, w/1 static 2mm suture tape (blk)	PEEK		

Parcus Braid Infinity Loop				
Part #	Size	Description	Material	
20056S	#2	Parcus Braid, infinity loop (wht/blu), w/needle	UHMWPE	
20174S	1.6mm	Parcus Braid, suture tape infinity loop (wht/blu) w/needle	UHMWPE	

Twist SST PEEK Screw-In Suture Anchors Instrumentation						
Part #	Description	Sterility	Single-use/ Reusable			
11000U	4.0mm Drill (for use with Twist SST and Knotless DEX Anchors)	Non-Sterile	Reusable			
11241	4.0 x 100mm drill guide, 6-point	Non-Sterile	Reusable			
10365	3.2mm Awl (for use with 4.5mm Twist SST Anchor)	Non-Sterile	Reusable			
10338	4.1mm Awl (for use with 4.5mm, 5.5mm and 6.5mm Twist SST Anchors)	Non-Sterile	Reusable			
10609	Punch/tap for 4.5mm Twist SST Anchor	Non-Sterile	Reusable			
10277	Punch/tap for 5.5mm or 6.5mm Twist SST Anchors	Non-Sterile	Reusable			
10222	Punch/tap for 5.5mm or 6.5mm Twist SST Anchors, hudson	Non-Sterile	Reusable			



<sup>\* &</sup>quot;Bio-inert to reduce the possible risk of patient reaction." https://invibio.com/ortho/shoulder-arthroscopy

## Twist Knotless DEX Screw-In Suture Anchors



Twist Knotless DEX was designed to be extremely reliable and strong. The fully threaded screw-in knotless anchor is ideally suited for Achilles repair.

### Features & Benefits

#### Knotless

- Provides a step-saving alternative to conventional "knotted" suture anchors
- Eliminates "knot stacks" associated with soft tissue irritation

#### Fully threaded design

- Provides cortical fixation
- Reduces the risk of "pull-back"

#### Made of PEEK-OPTIMA Natural

- Non-absorbable
- Bio-inert
- Radiolucent
- MR safe

Twist Knotless DEX					
Part #	Diameter (mm)	Description	Material		
11259	4.75	Twist Knotless DEX, screw-in, suture anchor, w/suture passer	PEEK		
11260	5.5	Twist Knotless DEX, screw-in, suture anchor, w/suture passer	PEEK		

Twist Knotless DEX Instrumentation						
Part #	Description	Sterility	Single-use/ Reusable			
11000U	4.0mm Drill (for use with Twist SST and Knotless DEX Anchors)	Non-Sterile	Reusable			
11241	4.0 x 100mm drill guide, 6-point	Non-Sterile	Reusable			
10338	4.1mm Awl (for use with Twist Knotless DEX Suture Anchors)	Non-Sterile	Reusable			
11139	Punch/tap for 4.75mm Twist Knotless DEX	Non-Sterile	Reusable			

## Knotless PEEK CF Push-In Anchor



## Features & Benefits

#### Made of carbon fiber-reinforced PEEK-OPTIMA

- Non-absorbable, radiolucent, and MR safe
- Modulus of elasticity closely matching cortical bone

#### Knotless

- Provides a step-saving alternative to conventional "knotted" suture anchors
- Eliminates "knot stacks" associated with soft tissue irritation

Knotless PEEK CF Push-In Suture Anchors					
Part # Diameter Length (mm) Description Materia					
10994	3.5	10	35 Knotless, push-in, suture anchor, w/suture passer	PEEK CF	
10312	2.8	10	28 Knotless, push-in, suture anchor, w/suture passer	PEEK CF	
10313	3.5	10	35 Knotless, push-in, suture anchor (implant only, driver not included), w/suture passer	PEEK CF	

Instrumentation for Knotless PEEK CF Push-In Suture Anchors						
Part #	Diameter (mm)	Description	Sterile/ Non-sterile	Single-use/ Reusable		
10483	-	35 Knotless suture anchor driver*	Non-sterile	Reusable		
10482U	3	Drill bit, w/positive stop	Non-sterile	Reusable		
10823	-	8-point slotted drill guide, w/beaver tail handle	Non-sterile	Reusable		
10874U	2.8	28 Knotless drill bit, w/positive stop	Non-sterile	Reusable		

<sup>\*</sup>Required for implant 10313. Implant 10994 includes a driver.





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