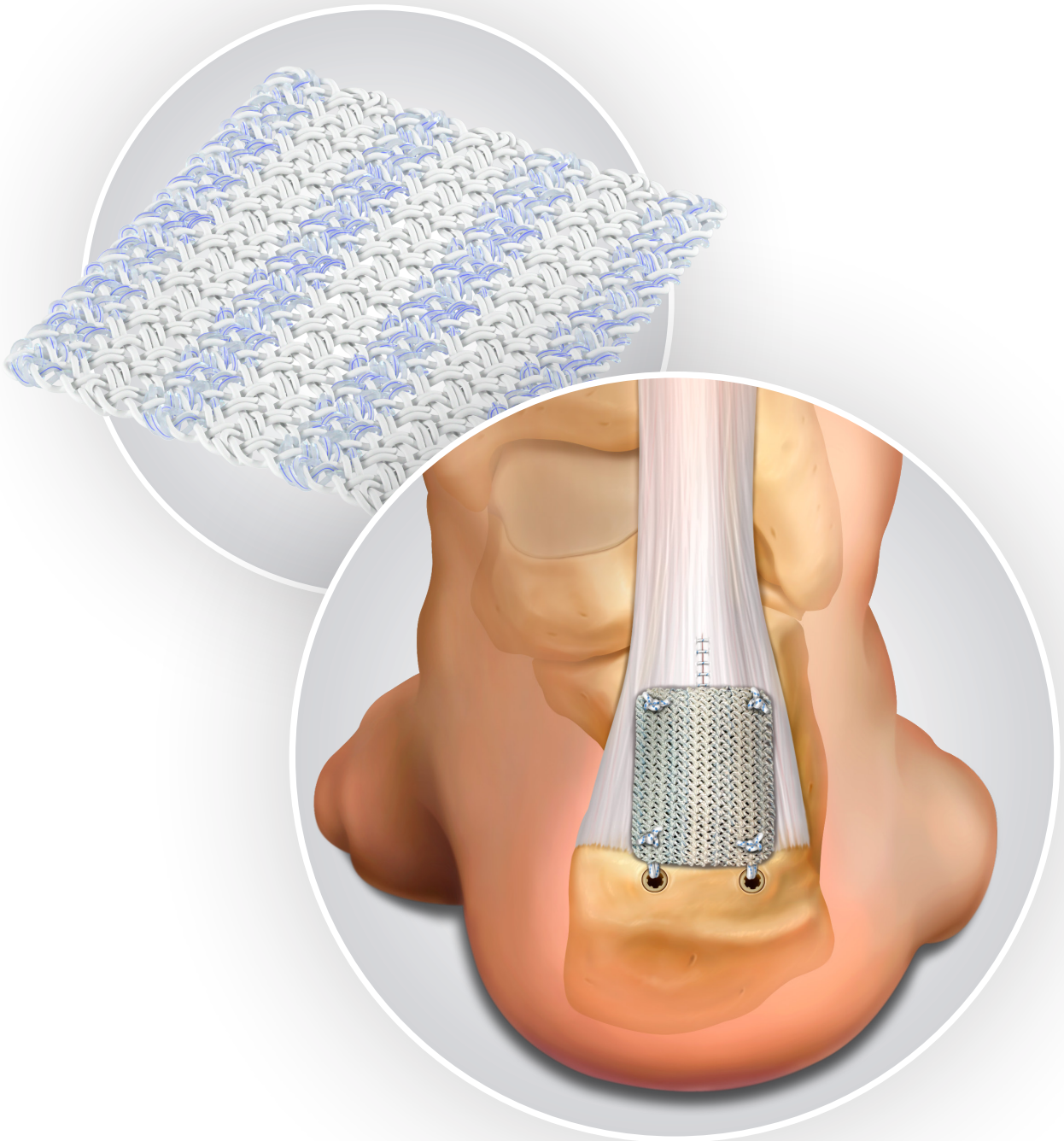


# Integrity™ Implant

*Achilles Tendon Repair*  
Surgical Technique Guide



# Achilles Tendon Repair *Integrity Implant*

## SURGICAL TECHNIQUE GUIDE

### STEP 1

Place the patient in a prone position. Make a longitudinal incision centrally or slightly postero-medially over the posterior ankle beginning at the heel/posterior tuberosity of the calcaneus and extend the incision 5-7cm proximal. Dissect down to the paratenon of the Achilles tendon and incise it centrally along the length of the Achilles tendon. Elevate the paratenon medially and laterally to expose the Achilles tendon down to its attachment on the heel. Sometimes the skin incision will have to be lengthened distally 1-2cm. Carefully retract the paratenon and skin flaps using skin rakes or retractors.

### STEP 2

Make a central longitudinal incision along the length of the exposed Achilles tendon. Resect the retrocalcaneal bursa. Carefully elevate the central aspect of the Achilles tendon at its attachment of the calcaneus medially and laterally with a scalpel or bovie. Leave the medial and lateral attachments of the Achilles tendon intact.

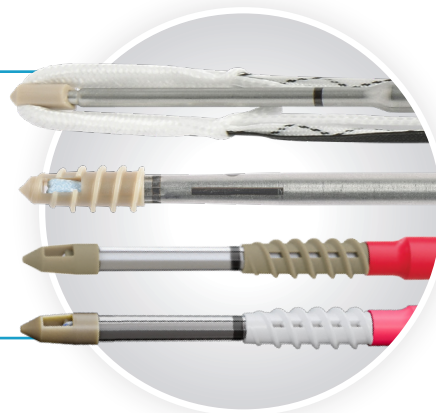
### STEP 3

At this point, the Haglund's deformity and any calcaneal spurs will be evident. Remove these with a rongeur or a sagittal saw. Make the resection perpendicular to the longitudinal axis of the deformity. Medially protect the neurovascular bundle and laterally protect the dorsal cutaneous branch of the sural nerve. Chamfer the bone edges so that they are smooth. Next, palpate the Achilles tendon. Any calcifications or tendinopathic tissue can be debrided as well. Take a lateral x-ray to ensure resection is adequate and no bony prominences are remaining.

*Once satisfied with bony and soft tissue debridement, the Achilles reconstruction can begin.*

*Carry out your standard technique for repairing the Haglund's deformity using preferred suture anchors.*

*For a full listing of Anika products, please refer to pages 5-7.*



#### STEP 4

Drill (and tap if desired) two proximal drill holes 15mm from the distal Achilles attachment for suture anchor placement. Place the suture anchors in the prepared medial and lateral holes (Figure 1).

#### STEP 5

Pass the two medial sutures through the Achilles tendon medially and repeat the step laterally (Figure 2).

#### STEP 6

Drill (and tap if desired) the distal row at the distal Achilles attachment on the calcaneus, medially and laterally (Figure 2).

#### STEP 7

With the foot held in 15 degrees of plantarflexion, pass one medial suture and one lateral suture through the knotless suture anchor eyelet and place it into the distal medial drill hole turning clockwise. Repeat this step for the lateral distal drill hole.

Leave the retention suture for the eyelet intact. Do not pull out. It will be used for potential suturing of the Integrity Implant.

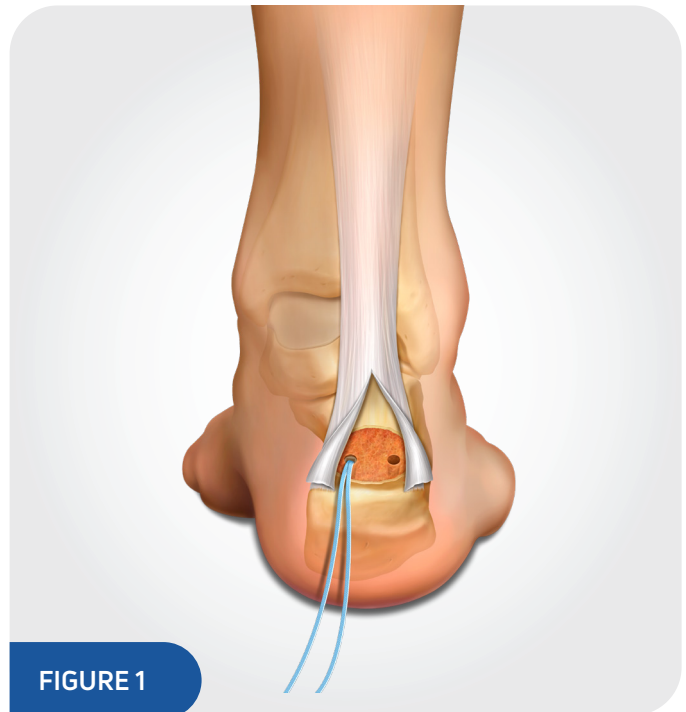


FIGURE 1

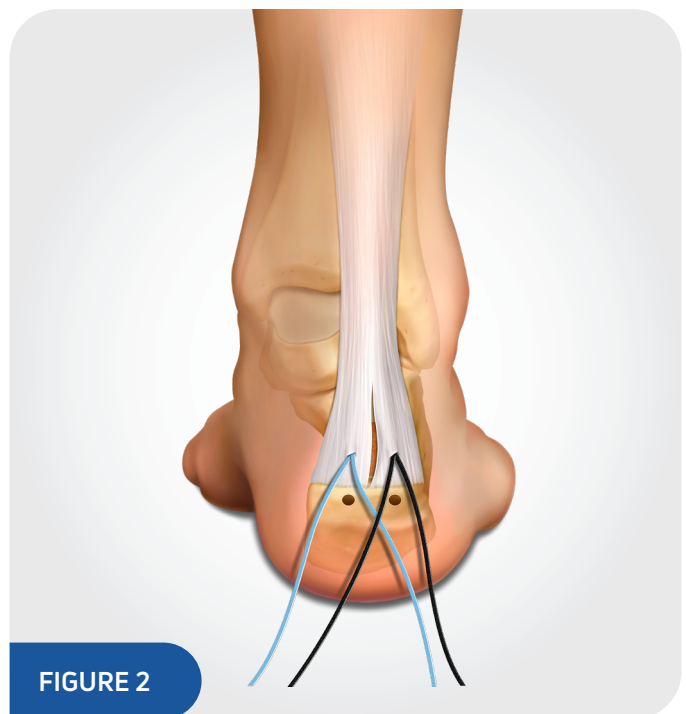


FIGURE 2

## Achilles Tendon Repair Surgical Technique *Continued*

### STEP 8

The central split in the Achilles tendon can be repaired with ParcusBraid® suture using a horizontal mattress stitch or a running Krackow stitch.

### STEP 9

Using an onlay technique, place the Integrity Implant over the central split of the Achilles tendon. Suture in the proximal aspect of the Integrity Implant to the proximal aspect of the Achilles tendon, medially and laterally. Ensure the suture is at least 2mm from the outer edge of the implant (Figure 3).

### STEP 10

Distally, the Integrity Implant can be sutured medially and laterally to the soft tissue of the Achilles tendon.

Alternatively, the retention suture from the knotless eyelet can be passed through the Integrity Implant with a free needle. Do this medially and laterally. Each suture can be tied back to the remaining limb from its respective eyelet. This will achieve the most distal position of the Integrity Implant and provide the most distal coverage (Figure 4).

### STEP 11

Perform a Thompson test assuring the Achilles tendon is intact. Once satisfied with the repair/reconstruction, copiously irrigate the wound. Close the paratenon and the subcutaneous layer and skin layer. Splint the patient in resting plantarflexion.



FIGURE 3



FIGURE 4

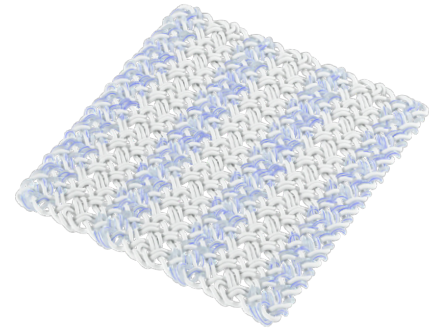
# Achilles Tendon Repair *Integrity Implant*

## ORDERING INFORMATION

### Integrity™ Implant

The Integrity Implant is a hyaluronic acid-based scaffold for tendon repair that provides reliable strength and regenerative biology.

The implant is constructed from Anika's Hyaff® material, a proven hyaluronic acid technology that supports tissue regeneration and resorbs over time, reinforced with non-absorbable PET (polyethylene terephthalate).



#### Integrity Implant System

Part #	Description
6000100	20x25mm Integrity Implant
6000101	25x30mm Integrity Implant

## SUTURE ANCHORS

### DrawTight™ Suture-Based Anchors

DrawTight Suture-Based Anchors are bone sparing and create a small insertion footprint with sub-cortical fixation. Anika's DrawTight anchors are made with UHMWPE and a natural PEEK-OPTIMA power tip.



#### DrawTight Suture-Based Anchors

Part #	Diameter (mm)	Description
10820	3.2	DrawTight, push-in, suture-based anchor, w/2, #2 sutures (blu & blu/blu)
10588	3.2	DrawTight, push-in, suture-based anchor, w/2, #2 sutures (wht/blu & wht/blk)
11288	3.2	DrawTight, push-in, suture-based anchor, w/2, 1.6mm suture tapes (blu, wht/blu)
11289	3.2	DrawTight, push-in, suture-based anchor, w/2, 1.6mm suture tapes (blk, wht/blk)

# Achilles Tendon Repair *Integrity Implant*

## ORDERING INFORMATION *Continued*

### Twist

#### PEEK Screw-In Suture Anchors



Twist PEEK Screw-In Suture Anchors are fully-threaded to provide optimal cortical fixation reducing the risk of “pull-back.”

Twist PEEK Screw-In Suture Anchors				
Part #	Diameter (mm)	Length (mm)	Description	Material
10511T	4.5	12.6	Twist, screw-in, suture anchor, w/2, #2 sutures (blu & wht/grn)	PEEK
10521	4.5	12.6	Twist, screw-in, suture anchor, w/2, #2 sutures (wht & wht/blu), w/needles (MO-6)	PEEK
11003	4.5	12.6	Twist, screw-in, suture anchor, w/2, 1.6mm suture tapes (wht/blu & wht/blk)	PEEK
11283	4.5	12.6	Twist, screw-in, suture anchor, w/2, 1.6mm suture tapes (blu, wht/blu)	PEEK
11285	4.5	12.6	Twist, screw-in, suture anchor, w/2, 1.6mm suture tapes (blk, wht/blk)	PEEK
10517T	5.5	12.6	Twist, screw-in, suture anchor, w/2, #2 sutures (blu & wht/grn)	PEEK
10522	5.5	12.6	Twist, screw-in, suture anchor, w/2, #2 sutures (wht & wht/blu), w/needles (MO-6)	PEEK
11004	5.5	12.6	Twist, screw-in, suture anchor, w/2, 1.6mm suture tapes (wht/blu & wht/blk)	PEEK
11284	5.5	12.6	Twist, screw-in, suture anchor, w/2, 1.6mm suture tapes (blu, wht/blu)	PEEK
11286	5.5	12.6	Twist, screw-in, suture anchor, w/2, 1.6mm suture tapes (blk, wht/blk)	PEEK

### Twist SST

#### Screw-In Suture Anchors



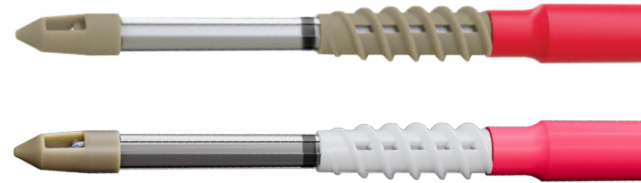
Anika’s Twist SST (Static Suture Tape) PEEK Screw-In Suture Anchors are ideal for small joint soft tissue repair and allow for a reproducible, all knotless, double-row surgical technique with predictable suture tensioning.

Twist SST PEEK Screw-In Suture Anchors				
Part #	Diameter (mm)	Length (mm)	Description	Material
11349	4.5	12.6	Twist SST, screw-in, suture anchor, w/1, 2mm suture tape (blu)	PEEK
11350	4.5	12.6	Twist SST, screw-in, suture anchor, w/1, 2mm suture tape (blk)	PEEK
11351	5.5	12.6	Twist SST, screw-in, suture anchor, w/1, 2mm suture tape (blu)	PEEK
11352	5.5	12.6	Twist SST, screw-in, suture anchor, w/1, 2mm suture tape (blk)	PEEK

## X-Twist™ Fixation System

### PEEK and Biocomposite Screw-In Suture Anchors

X-Twist is a knotless, open architecture, and fast inserting suture anchor system with multiple sliding suture and suture tape configurations. It is designed for versatility across procedures and is available in both knotless and fully knotted constructs.



#### X-Twist PEEK Screw-In Suture Anchors

Part #	Diameter (mm)	Length (mm)	Description	Material
XT24700	4.75	23	X-Twist PEEK 4.75mm, w/1, #2 Suture (blu/wht)	PEEK
XT24702	4.75	23	X-Twist PEEK 4.75mm, w/2, 1.6mm Suture Tapes (blu, blu/wht)	PEEK
XT24703	4.75	23	X-Twist PEEK 4.75mm, w/2, 1.6mm Suture Tapes (blk, blk/wht)	PEEK
XT25500	5.5	23	X-Twist PEEK 5.5mm, w/1, #2 Suture (blu/wht)	PEEK
XT25502	5.5	23	X-Twist PEEK 5.5mm, w/2, 1.6mm Suture Tapes (blu, blu/wht)	PEEK
XT25503	5.5	23	X-Twist PEEK 5.5mm, w/2, 1.6mm Suture Tapes (blk, blk/wht)	PEEK
XT26200	6.25	23	X-Twist PEEK 6.25mm, w/1, #2 Suture (blu/wht)	PEEK

#### X-Twist Biocomposite Screw-In Suture Anchors

Part #	Diameter (mm)	Length (mm)	Description	Material
XT44700	4.75	23	X-Twist Biocomposite 4.75mm, w/1, #2 Suture (blu/wht)	Biocomposite
XT44702	4.75	23	X-Twist Biocomposite 4.75mm, w/2, 1.6mm Suture Tapes (blu, blu/wht)	Biocomposite
XT44703	4.75	23	X-Twist Biocomposite 4.75mm, w/2, 1.6mm Suture Tapes (blk, blk/wht)	Biocomposite
XT45500	5.5	23	X-Twist Biocomposite 5.5mm, w/1, #2 Suture (blu/wht)	Biocomposite
XT45502	5.5	23	X-Twist Biocomposite 5.5mm, w/2, 1.6mm Suture Tapes (blu, blu/wht)	Biocomposite
XT45503	5.5	23	X-Twist Biocomposite 5.5mm, w/2, 1.6mm Suture Tapes (blk, blk/wht)	Biocomposite
XT46200	6.25	23	X-Twist Biocomposite 6.25mm, w/1, #2 Suture (blu/wht)	Biocomposite

For complete product information, please visit: [www.anikaifu.com](http://www.anikaifu.com)

**Anika Therapeutics, Inc.**

32 Wiggins Ave., Bedford, MA 01730

1-888-721-1600 | [customerservice@anika.com](mailto:customerservice@anika.com)

[www.anika.com](http://www.anika.com) | Anika. Restore Active Living.® | Stay Active®

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