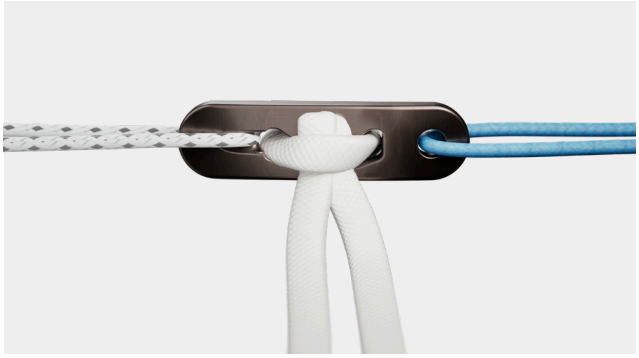
ACL TightRope® II Implant

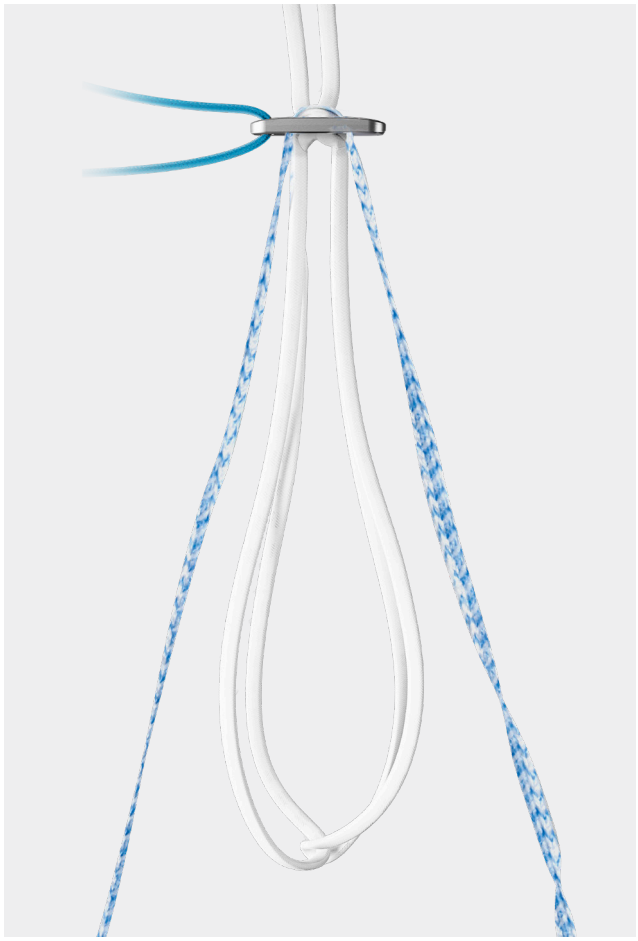
Flat-Out Better Adjustable-Loop Technology

Arthrex®

ACL TightRope® II Implant

As the first adjustable-loop cortical suspensory fixation implant to use a flat SutureTape design, the new ACL TightRope II implant offers better handling characteristics and is more resistant to graft abrasion or tissue pull-through than traditional round sutures.[1] Engineered for precise graft tensioning, the adjustable-loop mechanism allows for incremental retensioning of the graft construct after the implants have been secured on the cortex. The redesigned cortical button now incorporates a proprietary knotless fifth locking mechanism, increasing strength and resistance to cyclic displacement.[2] To accommodate various graft types and techniques, TightRope II implants are available in RT and BTB configurations loaded with an additional flipping suture or preloaded with FiberTape® suture for *Internal*Brace™ technique. Available options for the ABS implant include standard or open.





Features and Benefits

- **Flat SutureTape TightRope Implant:** Offers better handling characteristics, improved biomechanics, and reduces graft abrasion[1]
- **Improved Button Design:** Proprietary 5-point locking design that resists cyclic displacement and engineered to easily accommodate the *Internal*Brace technique[2]
- **Precise Graft Tensioning:** Allows for incremental retensioning of the graft construct after final fixation
- **Simplified Options:** Available in multiple configurations to accommodate various graft types and techniques: RT and BTB implants loaded with an additional flipping suture or preloaded with FiberTape suture for *Internal*Brace technique in addition to ABS and open ABS options
- **Scientifically Proven Performance:** ACL TightRope implant has a robust history with biomechanical and clinical data confirming product safety and efficacy[3]
- ***Internal*Brace Technique:** Associated with improved PROMs, less pain, and a higher percentage of and earlier return to preinjury activity level[4]

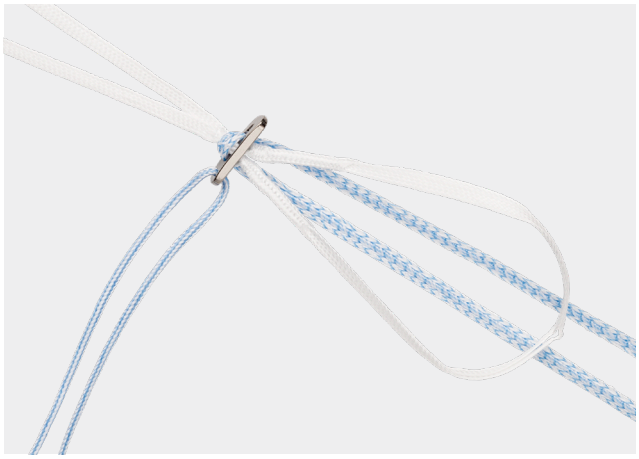
TightRope® II RT-2J and TightRope II RT-IB Implants

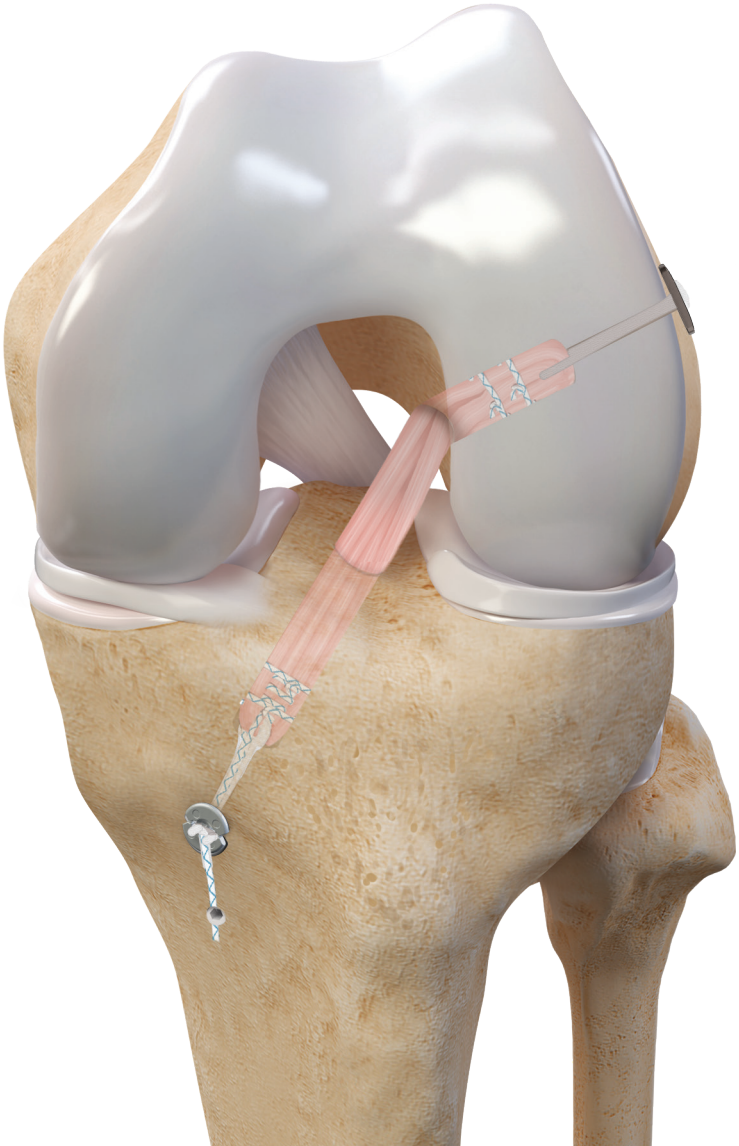
ACL TightRope II RT Implant With Additional Flipping Suture

The TightRope II RT implant is the first adjustable-loop device made from a SutureTape. The tape design offers better handling characteristics, improved biomechanics, and reduced graft abrasion.[1]

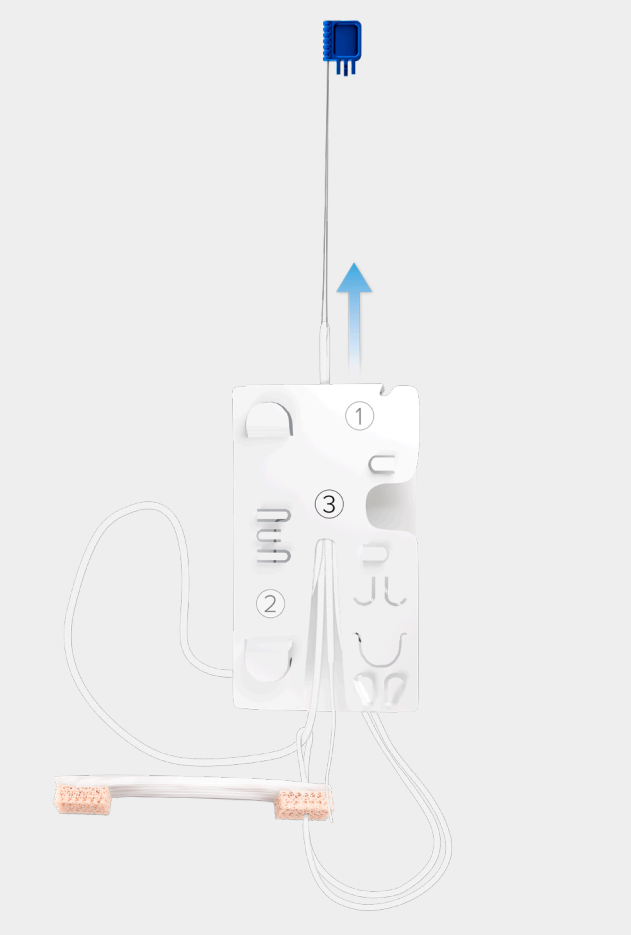
ACL TightRope II RT Implant With FiberTape® Suture for *Internal*Brace™ Technique

The redesigned TightRope II RT implant incorporates a proprietary 5-point locking design that resists cyclic displacement and easily accommodates FiberTape suture for *Internal*Brace technique.[2]





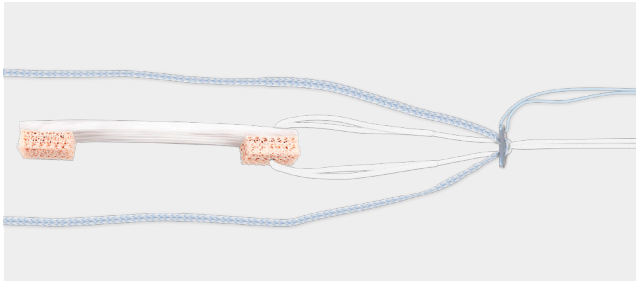
BTB TightRope® II Implant and BTB TightRope II Implant With FiberTape® Suture for *Internal*Brace™ Technique

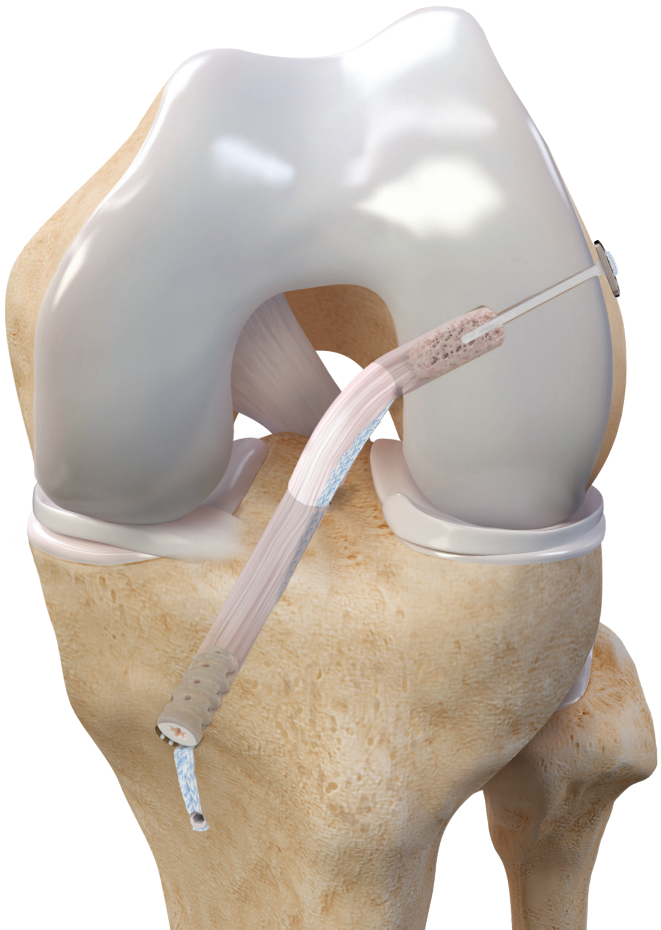


BTB TightRope II Implant With Additional Flipping Suture

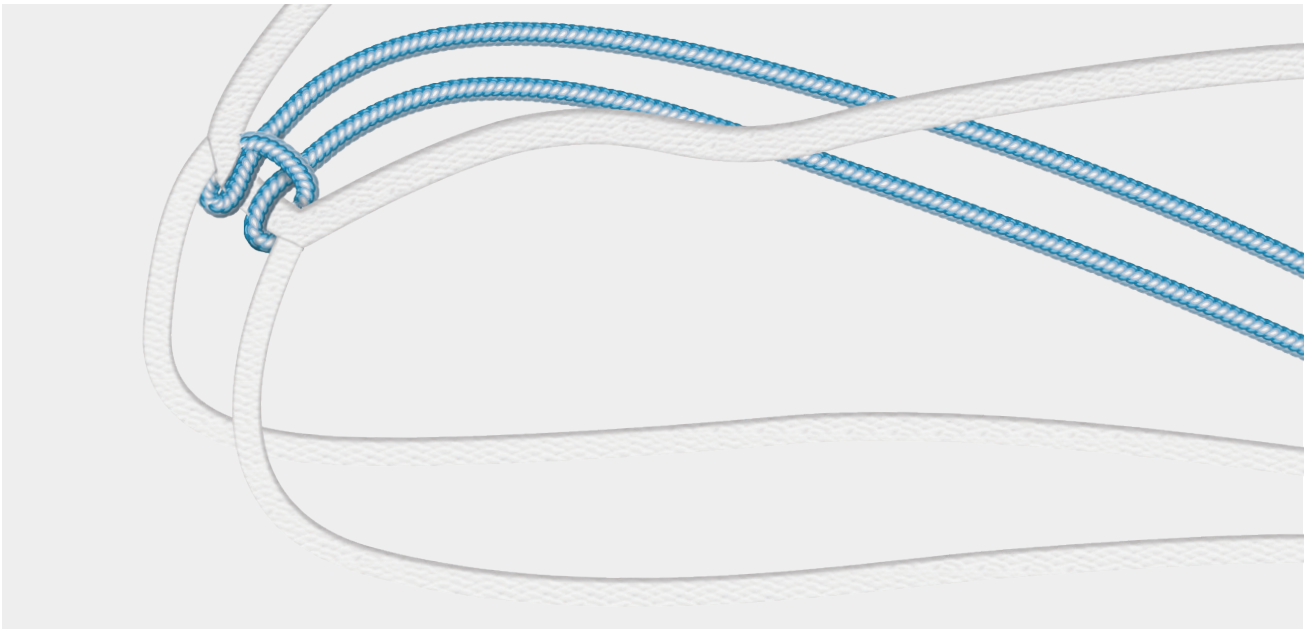
The BTB TightRope II implant offers the same adjustable, 5-point locking system as the TightRope II RT implant but allows placement through a small drill hole in the cortical bone block of the BTB or Achilles graft. Redesigned to improve the graft preparation process, the implant comes loaded on a convenient and efficient assembly card. The button facilitates dependable cortical fixation and the adjustable SutureTape loop allows the graft to be pulled into the femoral socket as deeply as needed for ideal graft tunnel-matching. Additionally, the BTB TightRope II implant allows fixation of BTB/Achilles grafts into anatomic femoral sockets that can be difficult to reach with traditional interference screws.

BTB TightRope II Implant for the *Internal*Brace Technique/Procedure





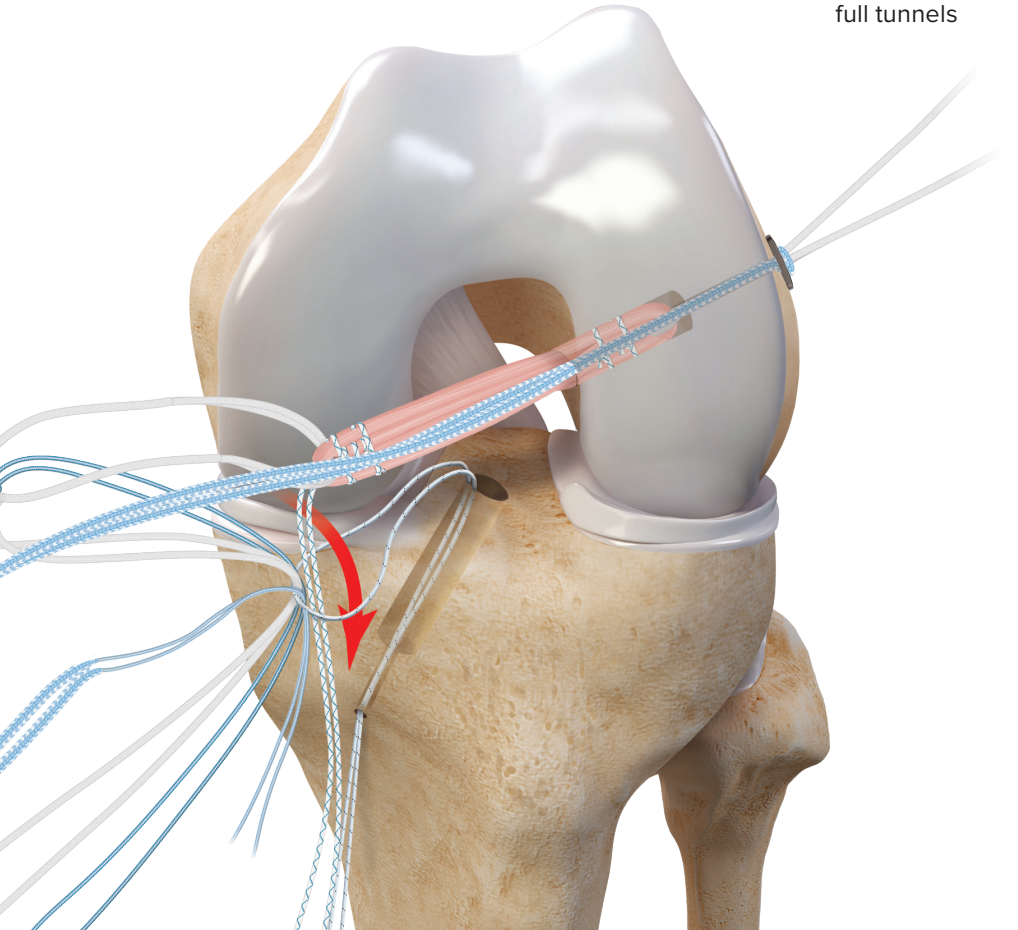
TightRope® II ABS and Open ABS Implants



The TightRope attachable button system (ABS) has revolutionized tibial fixation of ACL and PCL grafts. TightRope ABS loops can be used on all graft types and attached to a variety of button configurations for fixation over “retro-reamed” sockets or full tunnels with concave buttons. The new TightRope II ABS and open ABS implants provide the same advantages of the original ABS system but with the benefits of SutureTape.

Features and Benefits

- Improved handling characteristics and improved graft preparation
- Strong, reliable cortical fixation superior to interference screws[5]
- Maximum graft-to-bone contact improves incorporation and healing[6]
- The ability to retension grafts after fixation and knee cycling
- Several different button options for sockets and full tunnels



Ordering Information

Product Description	Item Number
Implants	
ACL TightRope® II RT Implant w/ Additional Flipping Suture	AR-**1588RT-2J**
ACL TightRope II RT Implant w/ FiberTape® Suture for *Internal*Brace™ Technique	AR-**1588RT-IB**
BTB TightRope II Implant w/ Additional Flipping Suture	AR-**1588BTB-2J**
BTB TightRope II Implant w/ FiberTape Suture for *Internal*Brace Technique	AR-**1588BTB-IB**
TightRope II ABS Implant	AR-**1588TN-20**
TightRope II ABS Implant, open	AR-**1588TN-21**
Implant Systems	
Implant System, ACL TightRope II RT implant w/ FiberTape suture for *Internal*Brace technique, FlipCutter® III drill, and FiberStick™ suture	AR-**1288RTIB-FC3**
Implant System, ACL TightRope II BTB implant w/ FiberTape suture for *Internal*Brace technique, FlipCutter III drill, and FiberStick suture	AR-**1288BTBIB-FC3**
ABS Buttons	
Concave TightRope ABS Button 11 mm, round	AR-**1588TB-3**
Concave TightRope ABS Button 14 mm, round	AR-**1588TB-4**
Concave TightRope ABS Button 20 mm, round	AR-**1588TB-5**
ACL Backup Fixation System	
4.75 mm × 19.1 mm Secondary Fixation w/ BioComposite SwiveLock® Anchor	AR-**1593-BC**
4.75 mm × 19.1 mm Secondary Fixation w/ PEEK SwiveLock Anchor	AR-**1593-P**
FlipCutter III Drill	
FlipCutter III Drill	AR-**1204FF**
Instrumentation	
ACL ToolBox Instrument Set	AR-**1900S**
PCL ToolBox Set	AR-**1269S**
RetroConstruction™ Drill Guide System Instrument Set	AR-**1510S**

References

1. Arthrex, Inc. Data on file (LA1-00038-EN_B). Naples, FL; 2017.
2. Arthrex, Inc. Data on file (APT-G01155). Munich, Germany; 2020.
3. Arthrex, Inc. Sales data on file (as of July 10, 2018). Naples, FL; 2018.
4. Bodendorfer BM, Michaelson EM, Shu HT, et al. Suture augmented versus standard anterior cruciate ligament reconstruction: a matched comparative analysis. *Arthroscopy.* 2019;35(7):2114-2122. doi:10.1016/j.arthro.2019.01.054
5. Smith PA, DeBerardino TM. Tibial fixation properties of a continuous-loop ACL hamstring graft construct with suspensory fixation in porcine bone. *J Knee Surg.* 2015;28(6):506-512. doi:10.1055/s-0034-1394167
6. Kamitani A, Hara K, Arai Y, et al. Adjustable-loop devices promote graft revascularization in the femoral tunnel after ACL reconstruction: comparison with fixed-loop devices using magnetic resonance angiography. *Orthop J Sports Med.* 2021;9(2):2325967121992134. doi:10.1177/2325967121992134

*Internal*Brace surgical technique is intended only to support the primary reconstruction and is not intended as a replacement for the standard of care using biologic augmentation in a primary reconstruction. *Internal*Brace surgical technique is intended only for soft-tissue-to-bone fixation and is not cleared for bone-to-bone fixation.

Notes

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. Postoperative management is patient-specific and dependent on the treating professional's assessment. Individual results will vary and not all patients will experience the same postoperative activity level and/or outcomes.

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