

FASTFIT ANCHOR RAZEK

Adjustable

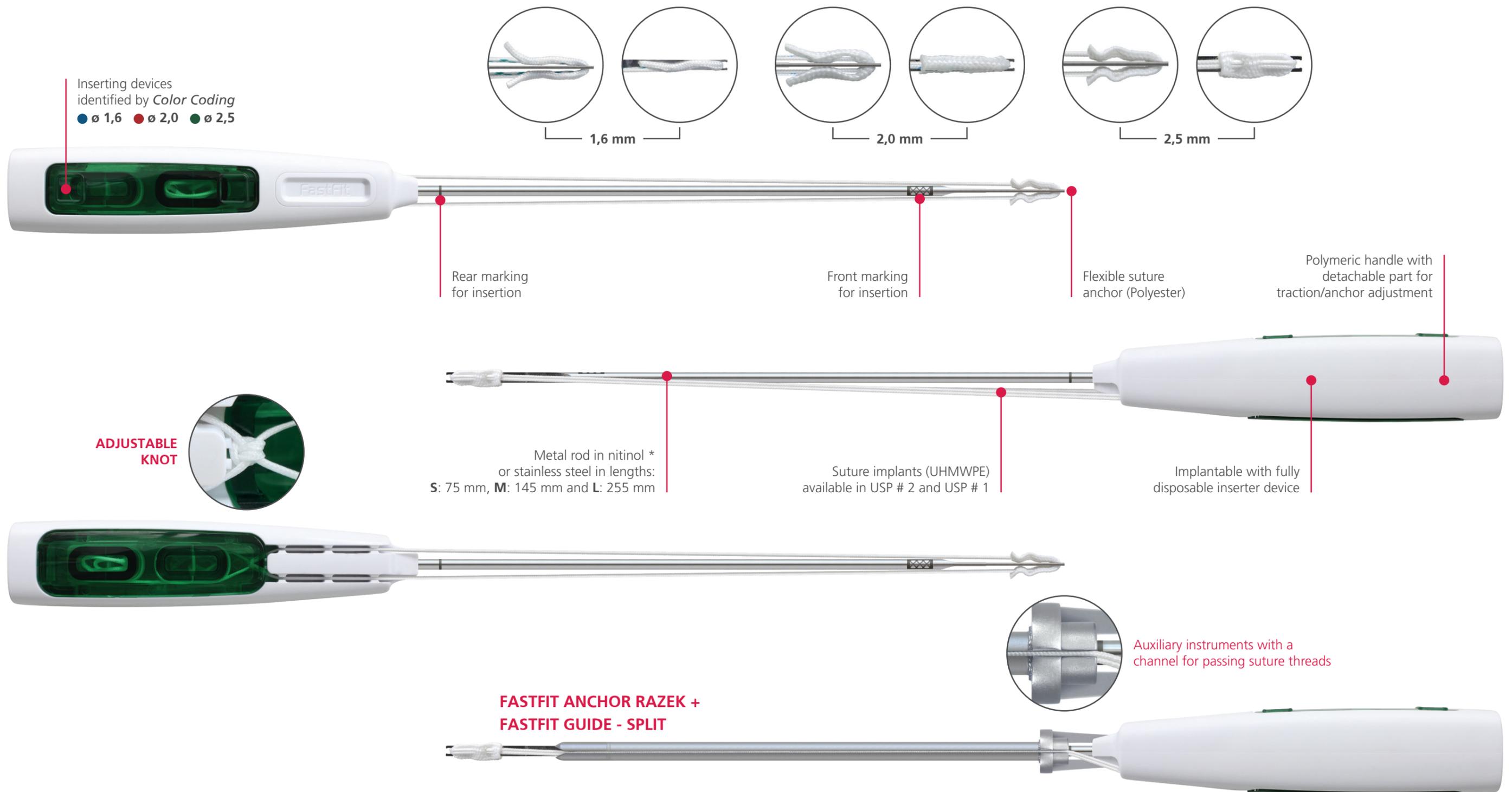
INDICATIONS

The FastFit Anchor Razek family of flexible and adjustable suture anchors is indicated for use in arthroscopic or conventional orthopedic surgical procedures on the upper and lower limbs, in which the suture is used to join soft tissue such as ligaments, tendons or joint capsules to the bone.

ITS DESIGN IS BASED ON THE PRINCIPLES OF MINIMUM AGGRESSION AND GREATER FIXING POWER.

Merely illustrative images





CHARACTERISTICS OF ANCHORS

- Conventional sutures have free ends, offering the possibility of being directly sutured to the soft tissues. Adjustable sutures, on the other hand, have an adjustable knot, making it possible to fix the graft to the implant through auxiliary sutures. Adjustable sutures allow quick adjustment of tension during fixation of the set and the distance between the anchor and the soft tissues;
- Available in **three diameters: 1,6 mm, 2,0 mm e 2,5 mm** - loaded with very high resistance wires (UHMWPE ** ForceFiber® Teleflex **);
- **Reduced bone removal** - the smaller diameter drill makes the hole created for the implant much smaller. Consequently, there is a greater preservation of the bone-tissue contact surface, in addition to less aggression, considerably decreasing pain during the post-surgery period;

- Complications such as fractures, osteolysis and synovitis **are minimized**, which can occur with other materials, mainly in bioabsorbables;
- The **reduced diameter** of the anchor reduces the need for greater bone perforations, common in metallic, peek and bioabsorbable anchors, causing complications such as bone fragility and resections to be minimized. In addition, in cases where more anchors are needed, there will be less chance of complications and greater possibility for its proper positioning;
- With the implant totally based on suture threads, **the possibility of free intra-articular bodies** that can occur in other types of implants **is eliminated**.

* Available for 1.6 mm diameter only.

SUPPORT INSTRUMENTALS FASTFIT ANCHOR RAZEK

Channel for passage of the anchor suture threads



FastFit Guide - Split

Metal rod in nitinol * or stainless steel



FastFit Obturator

Instruments identified by *Color Coding*
 ● ø 1,6 ● ø 2,0 ● ø 2,5

Portal for viewing the front markings



FastFit Guide - Split + FastFit Obturator

FastFit Guide - Split + FastFit Drill



FastFit Drill 1,6 mm - Nitinol or stainless steel *



FastFit Drill 2,0 mm - Stainless steel



FastFit Drill 2,5 mm - Stainless steel



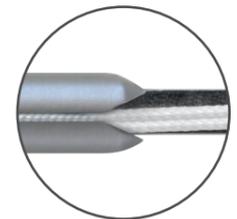
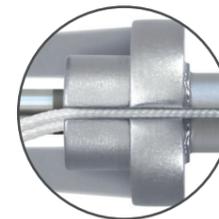
Front marking for perforation

Instrumental used as a drilling guide for making the pre-hole and as an insertion guide for anchors

FASTFIT ANCHOR RAZEK + FASTFIT GUIDE - SPLIT



CHANNEL FOR PASSING ANCHOR SUTURE THREADS



* Available for 1.6 mm diameter only.

FLEXIBLE AND ADJUSTABLE SUTURE ANCHORS

The models available with adjustable sutures are indicated for use in orthopedic surgical procedures in which suturing is used to join soft tissues such as ligaments and tendons to bone. Its operation is based on the fixation of the flexible suture anchor, which acts as a fixation pole to the bone, and the approximation of the soft tissues to the implant through the fast and controlled adjustment of the sutures given by the adjustable knot. The fixation of the soft tissues to the implant is done through the pressure exerted by the adjustable suture under these tissues, making the necessary reduction to recover the anatomical characteristics of the region. The following are some examples of indications for use: tenodesis of the long head of the biceps; reinsertion of the distal biceps/triceps tendon; epicondylar tenoplasty; medial or lateral elbow ligament repair; medial or lateral ankle ligament repair/stabilization; medial and forefoot reconstruction; deltoid ligament reconstruction.

FASTFIT ANCHOR RAZEK - 1,6 mm



Disposable and instrumentals identified by the blue color.

	FastFit - 1,6 mm	Equivalent Reference
Drilling Diameter	1,6 mm	3,2 mm
Area of Aggression	2,01 mm ²	8,04 mm ²

FastFit Anchor Razek - 1,6 mm has an area of bone aggression approximately 4 times smaller than the reference competitor.

	FastFit - 1,6 mm	Equivalent Reference
Pull-out Resistance	310,9 ± 29,6 N (1 x USP #2) 327,3 ± 28,3 N (2 x USP #1)	290,5 N

Pulling force superior to similar anchors.

FASTFIT ANCHOR RAZEK - 2,0 mm



Disposable and instrumentals identified by the red color.

	FastFit - 2,0 mm	Equivalent Reference
Drilling Diameter	2,0 mm	4,5 mm
Area of Aggression	3,15 mm ²	15,9 mm ²

FastFit Anchor Razek - 2,0 mm presents an area of bone aggression approximately 5 times smaller than the reference competitor.
Pullout force compatible with similar anchors (406,5 ± 19,7 N).

FASTFIT ANCHOR RAZEK - 2,5 mm



Disposable and instrumentals identified by the green color.

	FastFit - 2,5 mm	Equivalent Reference
Drilling Diameter	2,5 mm	5,5 mm
Area of Aggression	4,9 mm ²	23,75 mm ²

FastFit Anchor Razek - 2,5 mm presents an area of bone aggression approximately 5 times smaller than the reference competitor.
Pullout force compatible with similar anchors (443,2 ± 13,6 N).

MODELS - FASTFIT ANCHOR RAZEK - ADJUSTABLE

	Code	Description	Pre-hole diameter (mm)	Features
1,6	500120050	1,6 Adjustable (FAA 11-16S)	1,6	Anchor: 13 mm (Length) Sutures: 1 suture USP #1 - White
	500120055	1,6 Adjustable (FAA 11-16M)	1,6	Anchor: 13 mm (Length) Sutures: 1 suture USP #1 - White
	500120057	1,6 Adjustable (FAA 11-16L)	1,6	Anchor: 13 mm (Length) Sutures: 1 suture USP #1 - White
2,0	500120040	2,0 Adjustable (FAA 12-20M)	2,0	Anchor: 13 mm (Length) Sutures: 1 suture USP #2 - White
	500120045	2,0 Adjustable (FAA 12-20L)	2,0	Anchor: 13 mm (Length) Sutures: 1 suture USP #2 - White
2,5	500120100	2,5 Adjustable (FAA 12 25M)	2,5	Anchor: 13 mm (Length) Sutures: 1 suture USP #2 - White
	500120105	2,5 Adjustable (FAA 12 25L)	2,5	Anchor: 13 mm (Length) Sutures: 1 suture USP #2 - White

Note: The models identified as **S**, **M** and **L** have a metal rod of the Inserting Device with the lengths of **75**, **145** and **255 mm** respectively.

MODELS - SUPPORT INSTRUMENTALS FASTFIT ANCHOR RAZEK

	Code	Description
1,6	490062010	FastFit Obturator 1,6 - Split S
	490062020	FastFit Obturator 1,6 - M
	490062030	FastFit Obturator 1,6 - L
	490061880	FastFit Guide 1,6 - Split S
	490061910	FastFit Guide 1,6 - 4 Tips M
	490061920	FastFit Guide 1,6 - 4 Tips L
	490061930	FastFit Guide 1,6 - 4 Tips 25° M
	490061940	FastFit Guide 1,6 - 4 Tips 25° L
	490061950	FastFit Guide 1,6 - Slant 25° M
	490061960	FastFit Guide 1,6 - Slant 25° L
	490061040	Quick Coupling Chuck
	490061780	FastFit Drill 1,6 - S
	490061790	FastFit Drill 1,6 - M
	490061800	FastFit Drill 1,6 - L
2,0	490062040	FastFit Obturator 2,0 - Split M
	490062050	FastFit Obturator 2,0 - M
	490062060	FastFit Obturator 2,0 - L
	490061890	FastFit Guide 2,0 - Split M
	490061970	FastFit Guide 2,0 - 4 Tips M
	490061980	FastFit Guide 2,0 - 4 Tips L
	490061040	Quick Coupling Chuck
	490061810	FastFit Drill 2,0 - M
490061820	FastFit Drill 2,0 - L	
2,5	490062070	FastFit Obturator 2,5 - Split M
	490062080	FastFit Obturator 2,5 - M
	490062090	FastFit Obturator 2,5 - L
	490061900	FastFit Guide 2,5 - Split M
	490061990	FastFit Guide 2,5 - 4 Tips M
	490062000	FastFit Guide 2,5 - 4 Tips L
	490061040	Quick Coupling Chuck
	490061830	FastFit Drill 2,5 - M
490061840	FastFit Drill 2,5 - L	

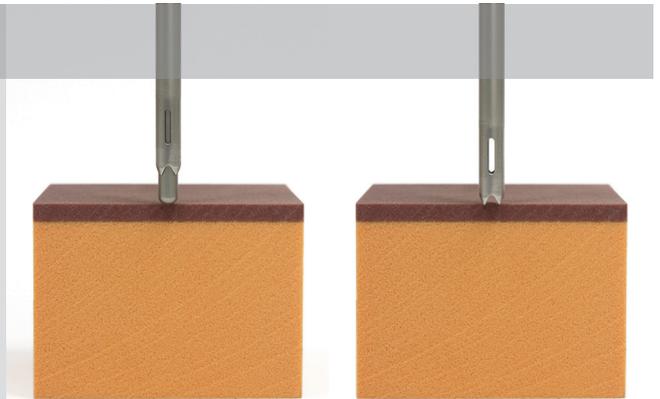
Adjustable Anchor Insertion

Select the appropriate implant model for the surgical procedure to be performed and perform the bone surface preparation at the implant site.

Step 01

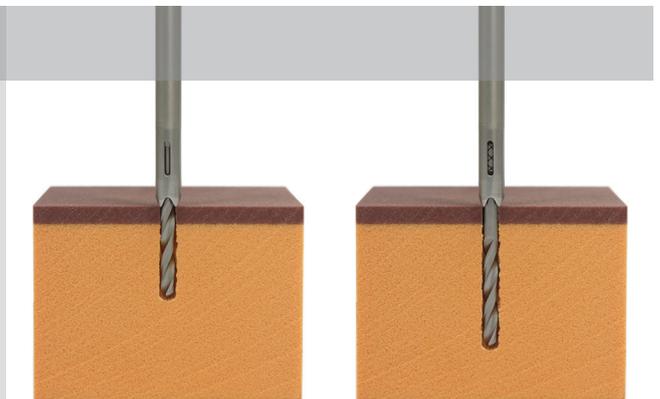
Insert the selected **FastFit Guide**, with its respective obturator, through the cannula, in the region designated by the surgeon.

Remove the Obturator.



Step 02

Place the **FastFit Drill** on the **FastFit Guide - Split** and drill into the bone until the hatch appears completely in the guide portal or until the drill stop is reached.



Note 01

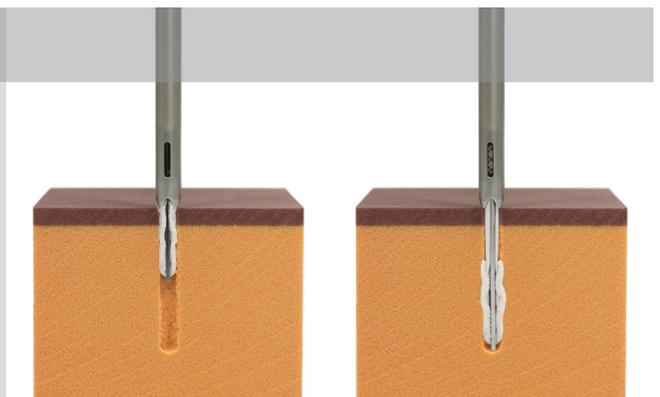
In the 2.0 mm (red) and 2.5 mm (green) drills, use the **Quick Coupling Chuck** of the instrument kit. In the case of the 1.6 mm drill bit (flexible), insert it into the mandrel until it reaches the laser marking.



Step 03

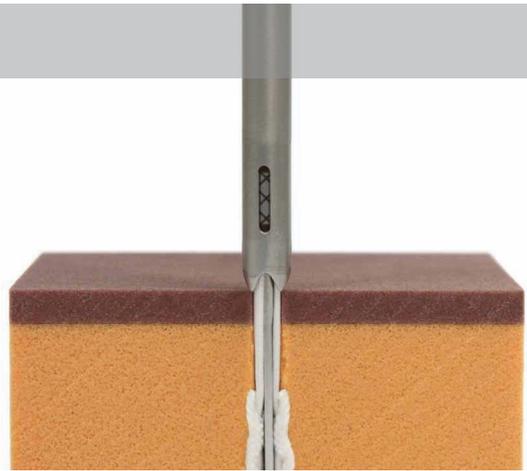
With the anchor properly positioned, impact the **Insertion Device**, in order to fully insert the anchor into the spongy bone tissue.

Care must be taken to maintain the guide's precise position during the introduction of the **FastFit Anchor Razek**.



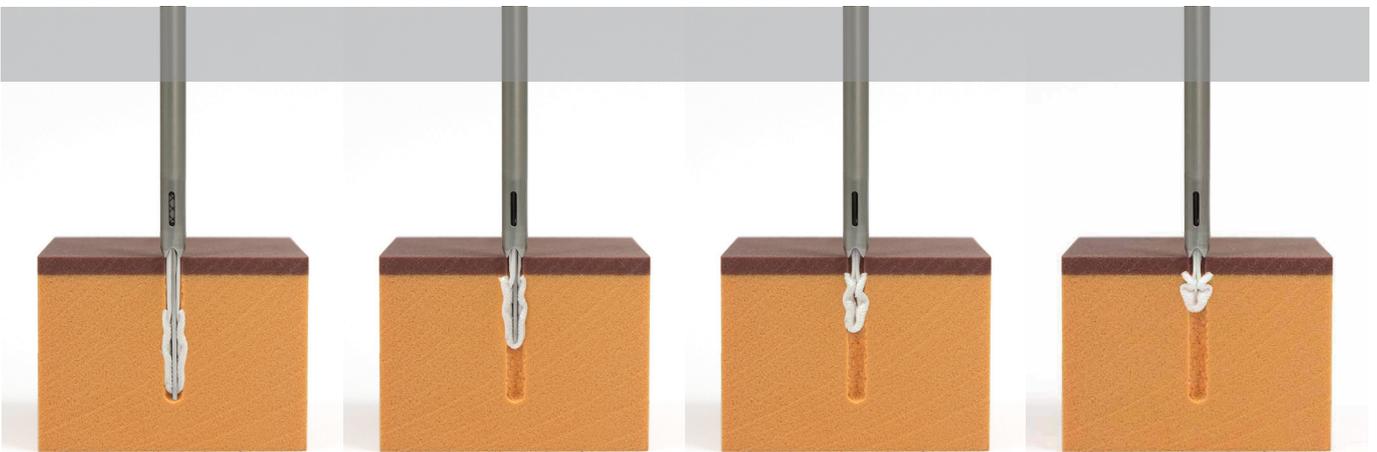
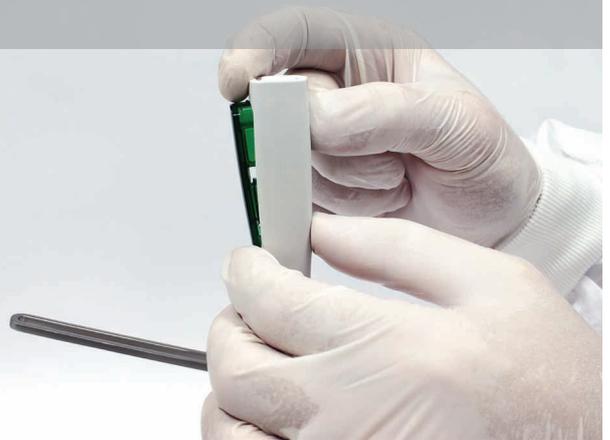
Note 02

The hatch must appear completely in the guide portal so that the anchor reaches the correct depth within the bone.



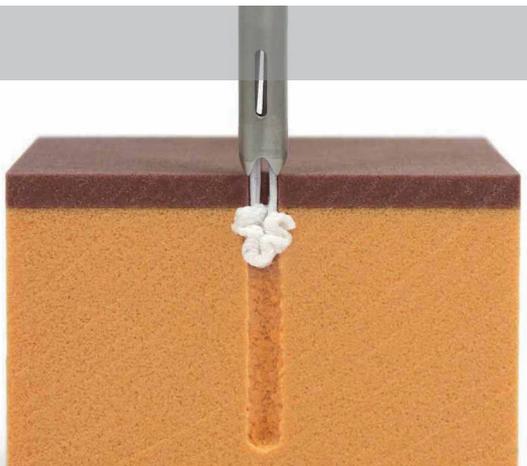
Step 04

Detach the anchor suture tensioner and pull the threads. Ideally, the wires should be pulled with the guide still in the fixation position and the anchor cable inserted, to ensure that it has conformed and fixed to the bone cortex.



Step 05

An anchor pullout test should be done after removing the cable and without too much load. During this traction, the anchor can move a few millimeters, reaching its final attachment point. Without this final traction there may be deleterious micromovements to the final suture result.



Step 06

Remove the sutures from inside the **FastFit Guide – Split** through the passageway and remove the guide.

Note: If you do not use a **FastFit Guide – Split**, remove the sutures from the suture tensioner before removing the guide.



Step 07

Disassemble the tensioner from the sutures and keep the wires coiled.



Step 08

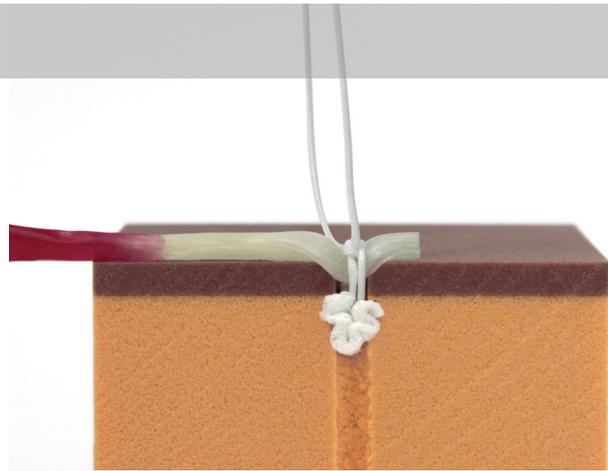
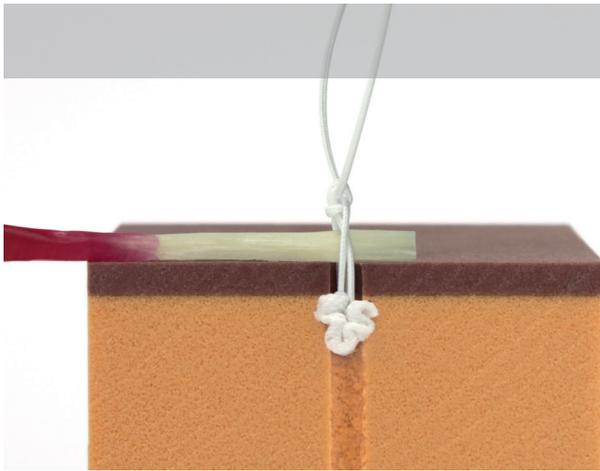
Pull the sutures, with the suture tensioner, in order to achieve the desired tension. The adjustment is best done by tractioning one wire at a time (traction one wire about 3 to 5 mm and then traction the other wire in the same way). Repeat the procedure until you reach your final anchor point in the tissue.



Note 03

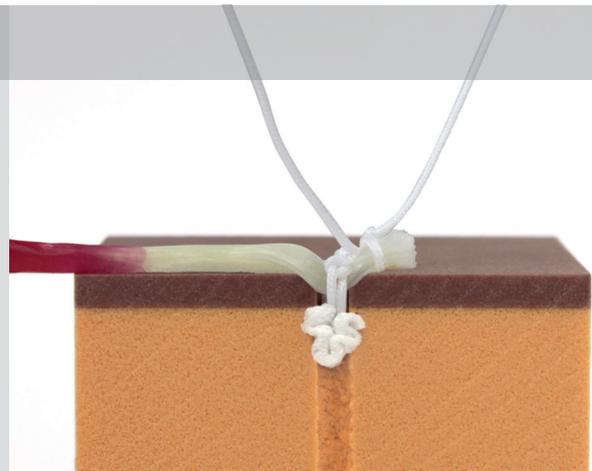
Before fixing the tissue to the bone structure, or when it is convenient, perform a cortical preparation. A light scraping in the contact area will facilitate the fixation between TISSUE - BONE.





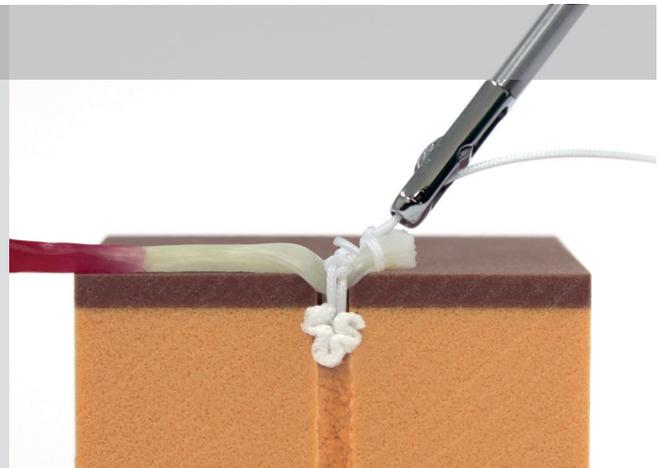
Note 04

After desired anchoring, it is recommended that the surgeon performs the suture using the adjustable suture loop sutures in order to improve the fixation between tissue and anchor.



Step 09

Cut the remaining adjustment threads using an appropriate suture cutter. Threads must be cut at a minimum safe distance above the knot.



Care

Flexible suture anchors require cortical bone for their correct fixation, therefore, deep scarification at the anchor insertion site should be avoided. Ideally, the use of the **MicroFT** device can associate the benefits of microfracture with the use of the anchor.