

Comprehensive
Surgical Technique
Guide for



ECOBUTTON™ KNOTLESS ROPE FOR AC JOINT

*Adjustable Suspensory Fixation
System for AC Joint Stabilization*



www.osteocaremedisys.com

ABOUT THE ACROMIOCLAVICULAR (AC) JOINT

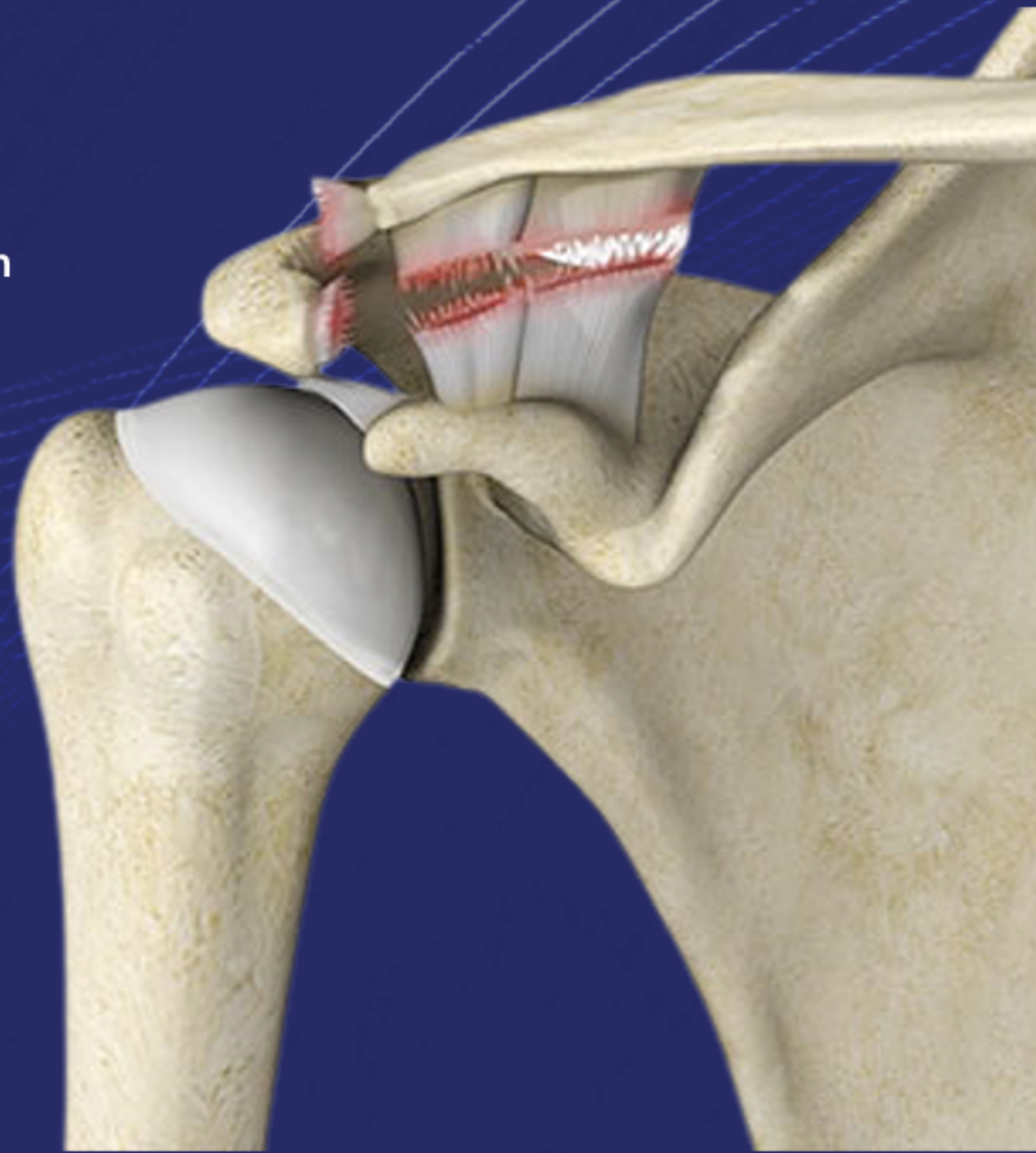
The **Acromioclavicular (AC) joint** is formed where the collarbone (clavicle) meets the acromion of the shoulder blade. It helps in smooth shoulder movement and provides stability to the shoulder during arm motion.

The AC joint is supported by strong ligaments that keep the clavicle and shoulder blade connected. Injury to these ligaments can lead to pain, swelling, deformity, and shoulder instability.

AC joint injuries commonly occur due to:

- ◆ Sports injuries
- ◆ Falls on the shoulder
- ◆ Road traffic accidents
- ◆ Direct impact to the shoulder

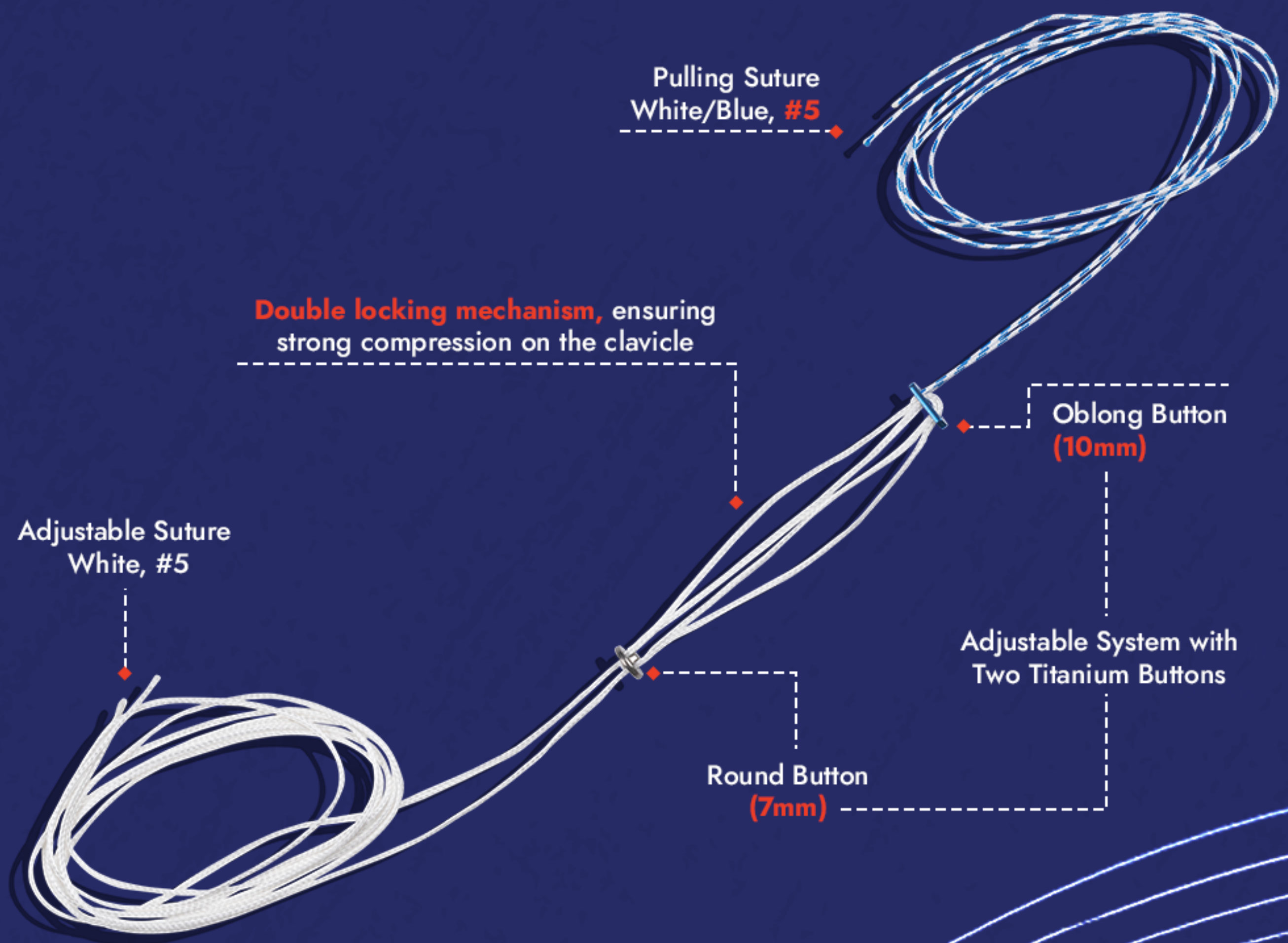
In severe AC joint injuries, surgical fixation may be required to restore joint alignment and shoulder stability





ECOBUTTON™ KNOTLESS ROPE FOR AC JOINT

It is designed for fixation and stabilization of AC joint injuries using a minimally invasive technique



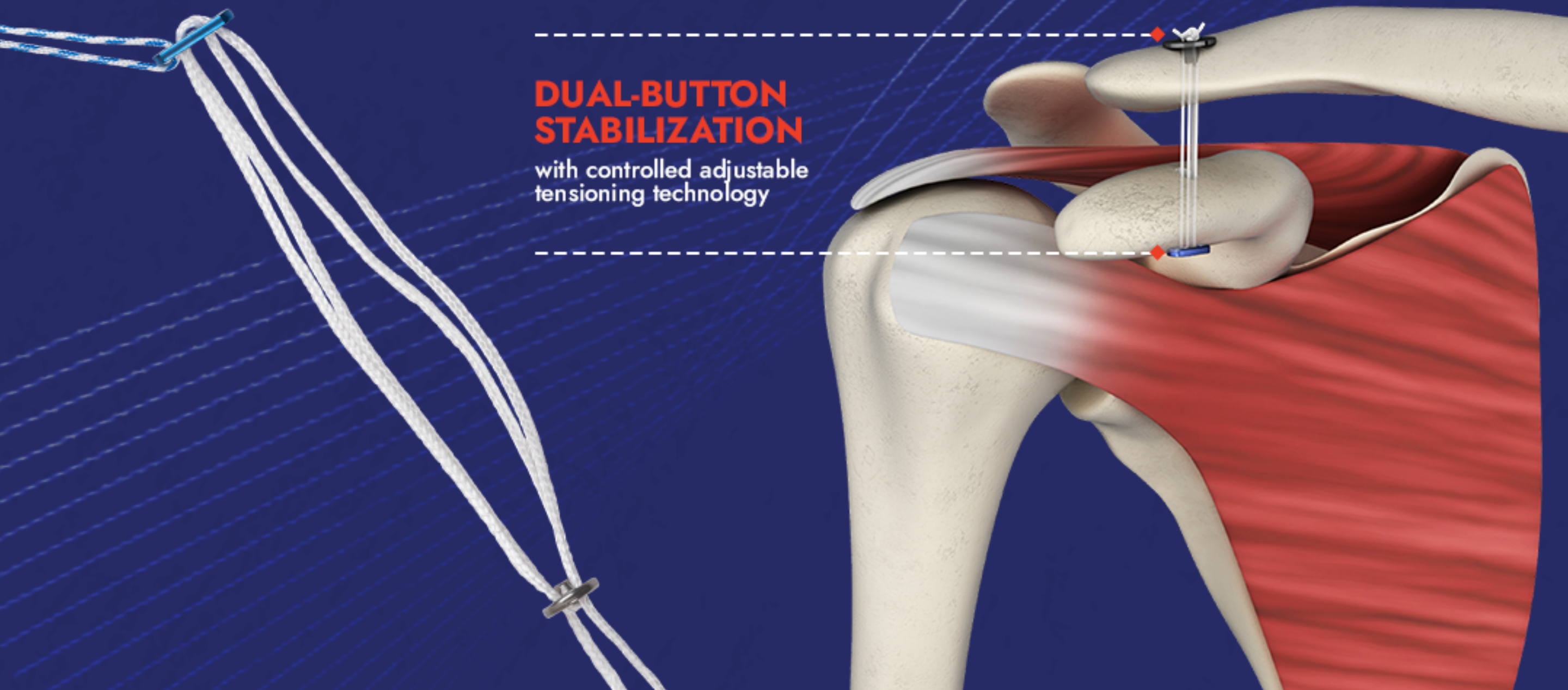
ECOBUTTON™ KNOTLESS ROPE FOR AC JOINT

Features :

- ◆ **Adjustable Tensioning Mechanism** — Allows gradual intraoperative reduction and optimized construct compression.
- ◆ **Optimized Button Design** — 10mm oblong button for coracoid & 7mm round button for clavicle stabilization.
- ◆ **High-Strength OsteoBraid™** — #5 adjustable loop (White) with #5 pulling suture (White/Blue) for superior strength.
- ◆ **Precision Technique** — Uses 1.4mm trocar tip K-wire and 3.5mm cannulated drill to create accurate tunnels.
- ◆ **Minimally Invasive** — Small tunnels preserve bone integrity and reduce surgical trauma.

DUAL-BUTTON STABILIZATION

with controlled adjustable
tensioning technology



SURGICAL TECHNIQUE

FOR ECOBUTTON™ KNOTLESS ROPE FOR AC JOINT

STEP 1:

Patient Positioning & Portal Creation

- ◆ Position the patient in beach chair setup.
- ◆ Create anterolateral portal for cannula insertion.
- ◆ Make a mini-open incision over the distal clavicle.



STEP 2:

Drilling the Clavicle & Coracoid

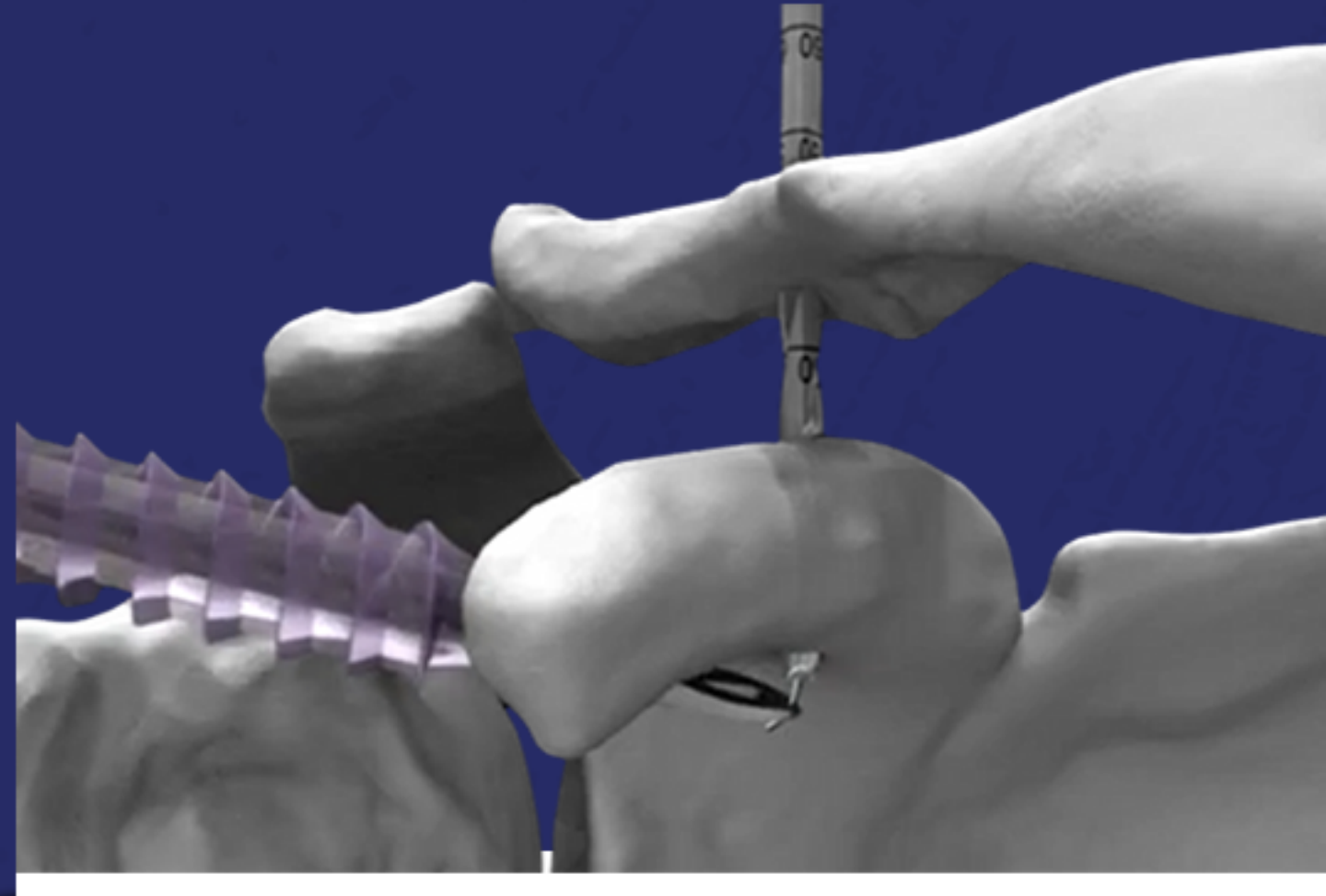
- ◆ Insert a 1.4mm K wire over the superior clavicle at its midline (25mm from the distal clavicle).
- ◆ Drill the K wire through both cortices of the clavicle and both of the coracoid.
- ◆ Confirm positioning using C-arm fluoroscopy.
- ◆ Pass a 3.5mm Cannulated Drill over the K wire and drill across the clavicle and coracoid.



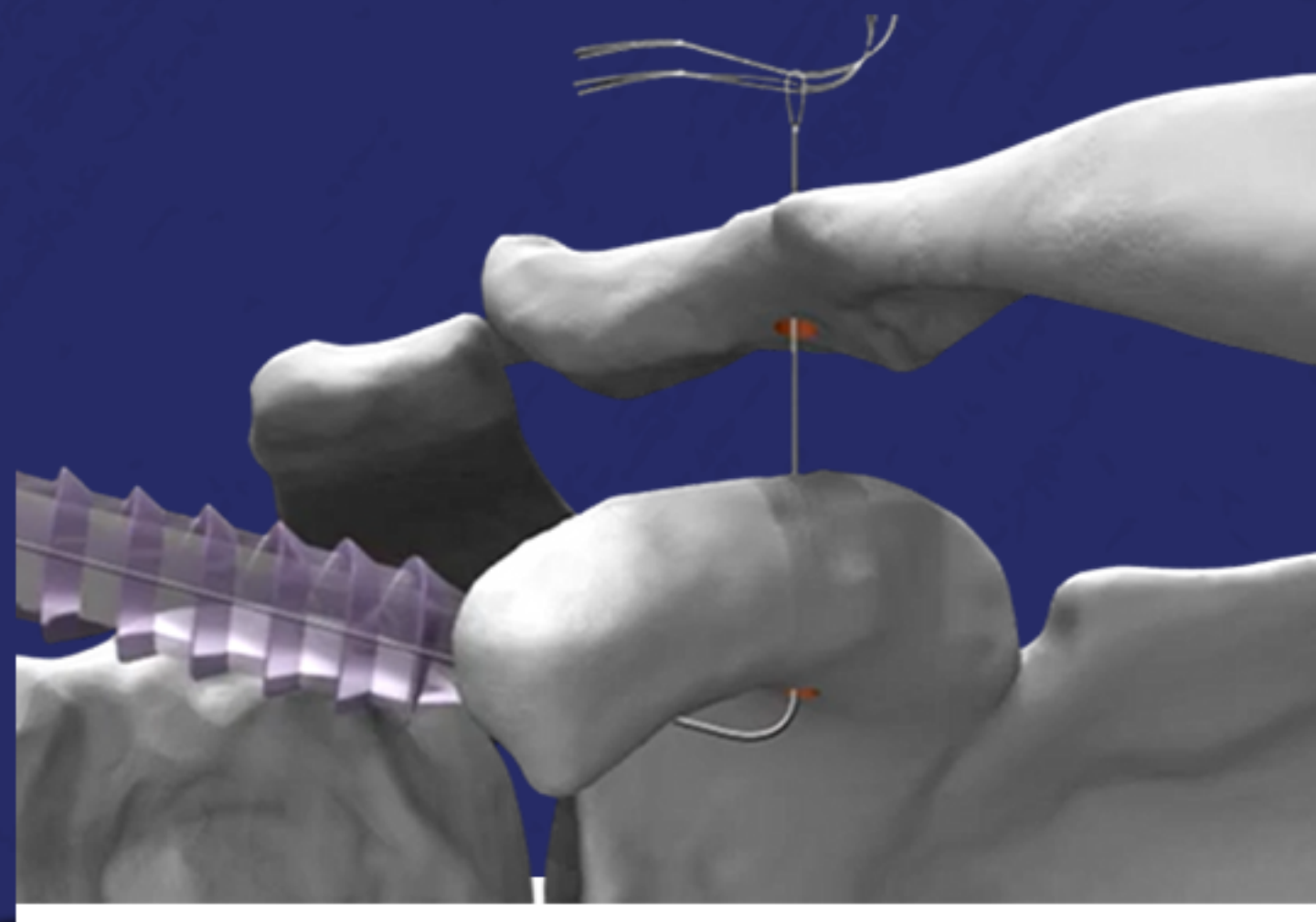
STEP 3:

Passing the Implant

- ◆ Keep the Cannulated Drill in place and remove the K wire.
- ◆ Pass a Crosswire through the Cannulated Drill and retrieve it through the anterolateral portal.



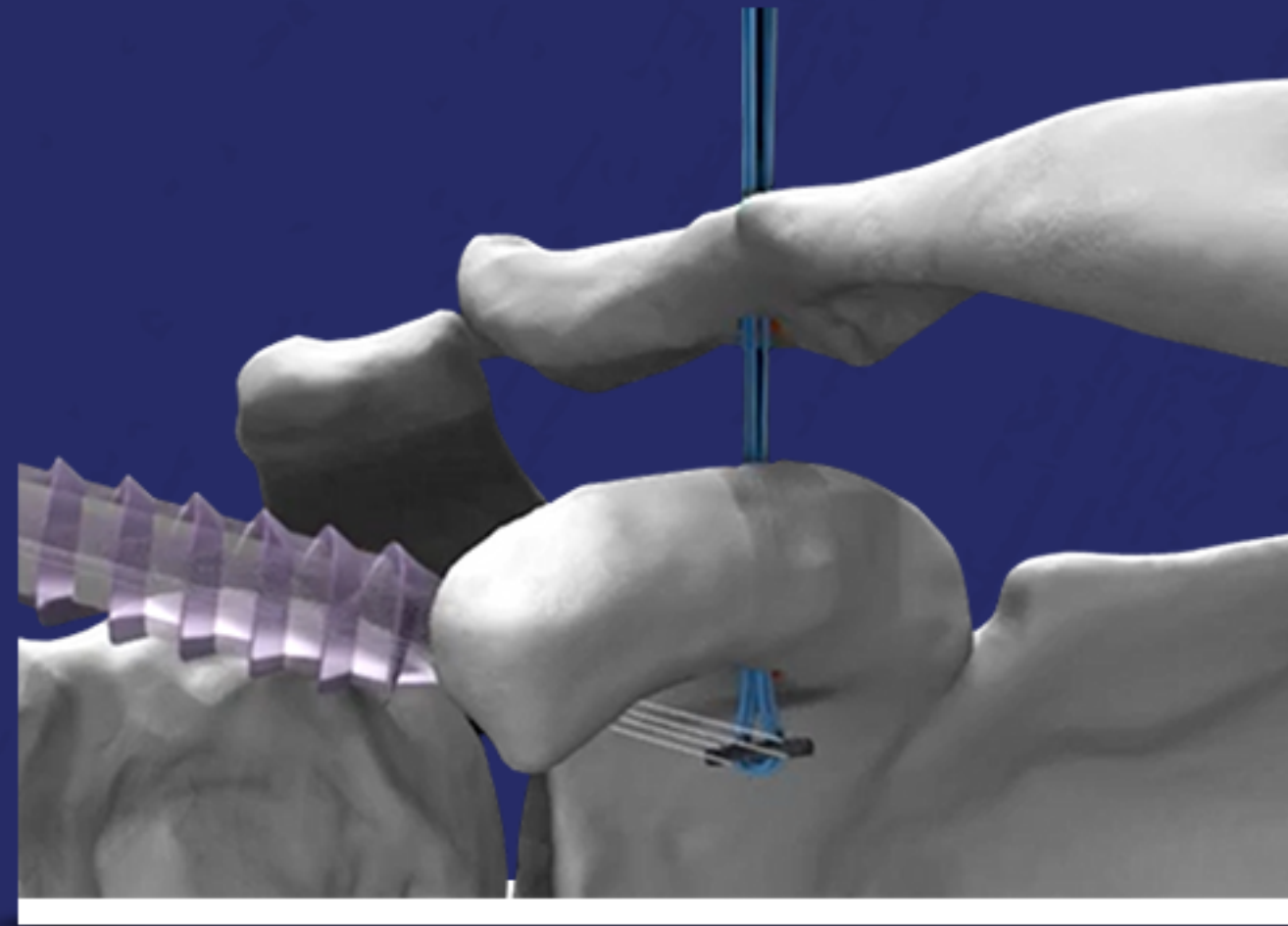
- ◆ Insert the Loopin Fiber into the Crosswire loop and pull it through the anterolateral portal.
- ◆ Pass the introducer fiber of the implant into the loop of Loopin Fiber and pull it to advance the oblong button through the clavicle and coracoid.



STEP 4:

Button Fixation

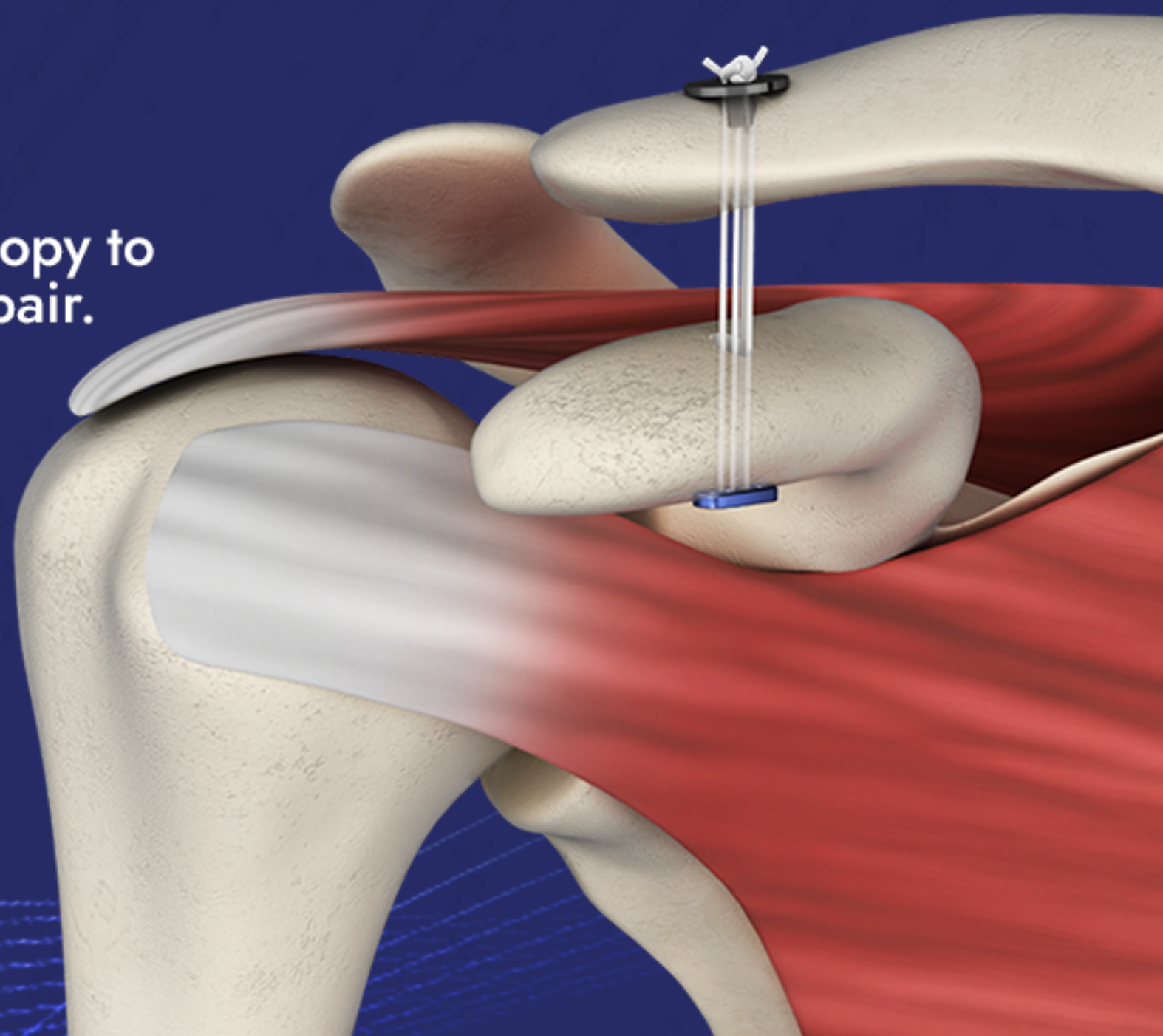
- ◆ Once the oblong button passes through the coracoid, flip the button.
- ◆ Remove the introducer fiber and allow the oblong button to sit flush against the coracoid base.
- ◆ Place a hemostat between the round button sutures laterally for counterpressure
- ◆ Sequentially tighten the sutures, reducing the clavicle to the desired position under direct visualization.
- ◆ Secure the fixation with 4-5 half hitches.
- ◆ Trim excess sutures using a suture cutter.



STEP 5:

Final Verification

- ◆ Confirm fixation under fluoroscopy to ensure robust and complete repair.



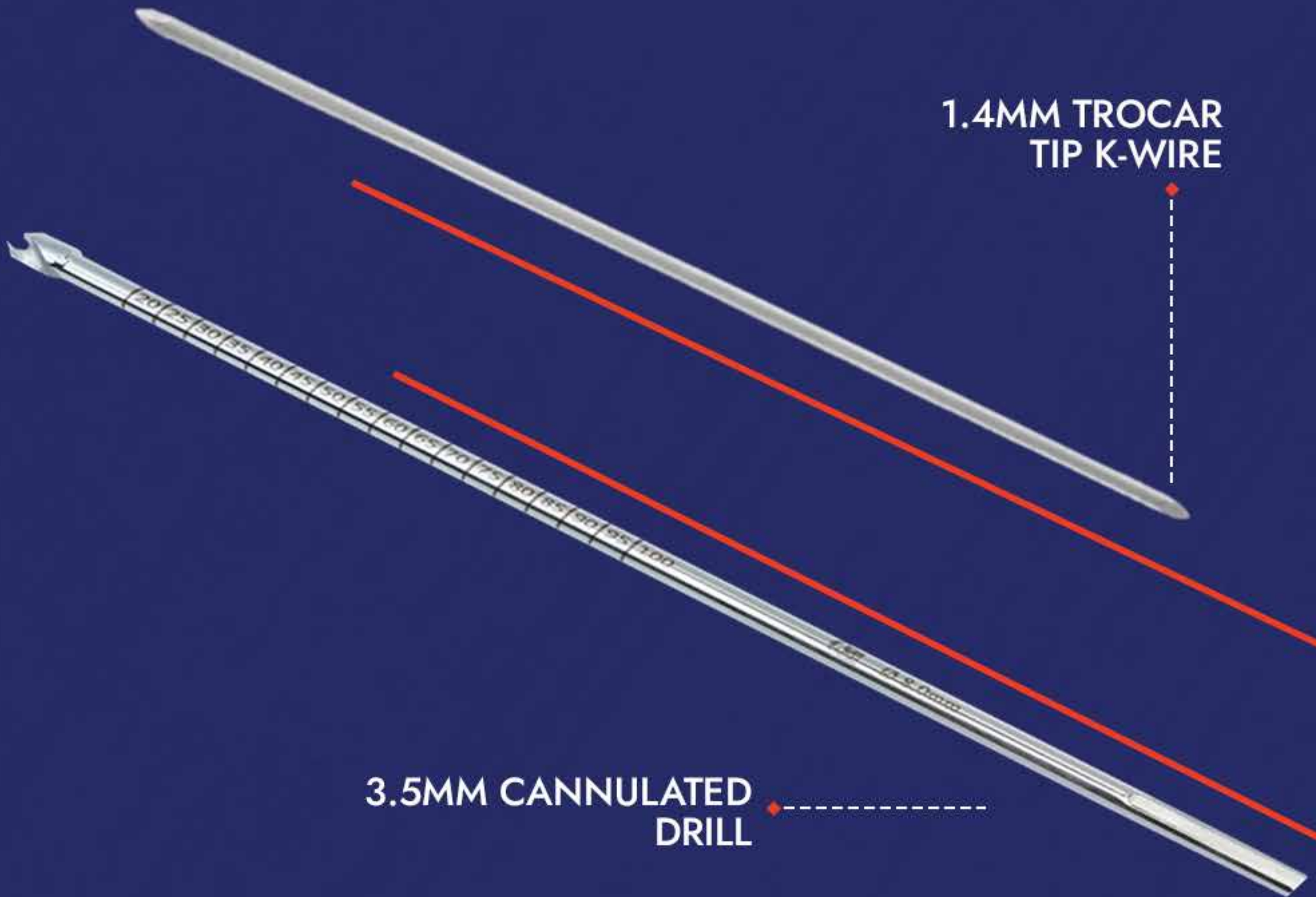


RELATED INSTRUMENTS

1.4MM TROCAR
TIP K-WIRE



3.5MM CANNULATED
DRILL



ORDERING INFO

OC5525 OC EcoButton™ Knotless Rope for AC Joint

OC4695 OC Trocar Tip K-wire, Dia. 1.4mm, Sterile

OC4694 OC Cannulated Drill, Dia. 3.5mm, Sterile

