

+ acumed®
Ankle Syndesmosis Repair System
with Acu-Sinch® Knotless

Product Overview



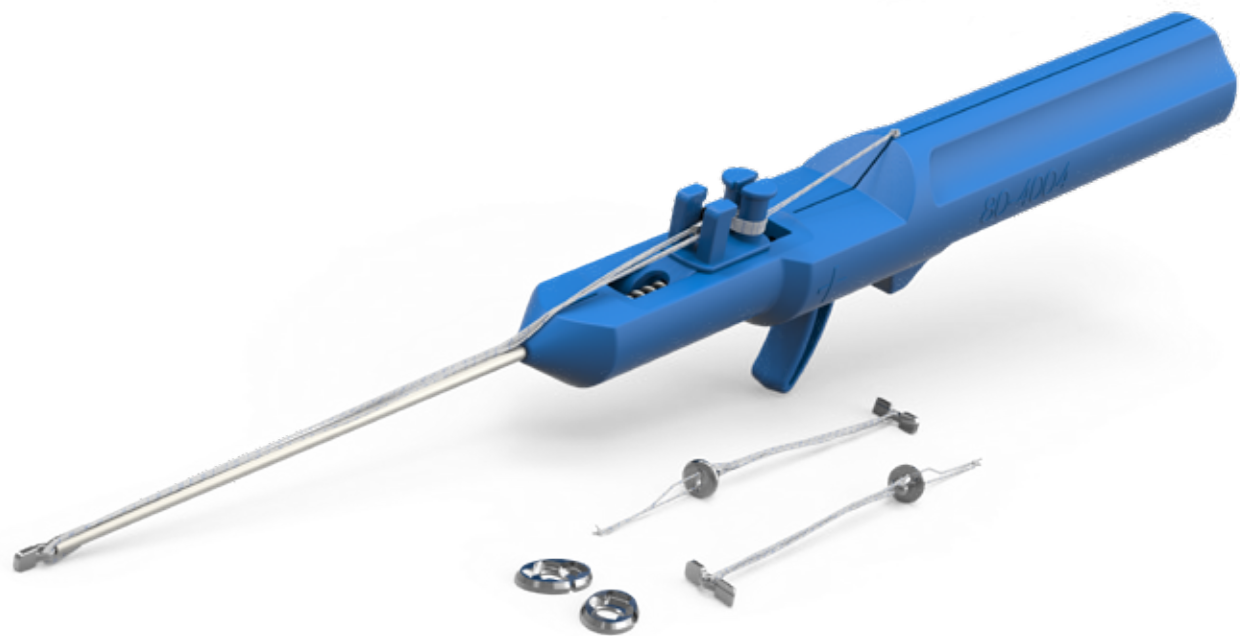
a Colson Medical | Marmon | Berkshire Hathaway Company

Acumed® Ankle Syndesmosis Repair System with Acu-Sinch® Knotless

The tibiofibular syndesmosis is disrupted in approximately 10–20% of ankle fracture cases and requires repair.^{1,3} For decades, screw fixation of the syndesmosis has been the gold standard for treatment.¹ However, emerging clinical evidence has demonstrated that flexible, suture-based syndesmosis repairs have successful clinical outcomes and may reduce complications associated with malreduction of the syndesmosis when fixed with screws.^{2,3,4}

Designed in conjunction with Alastair Younger, MB, Ch.B., M.Sc., Ch.M., FRCS(C); Selene Parekh, MD, MBA; and Steven Morgan, MD, the Acu-Sinch Knotless Implant enables the dynamic stabilization of laxity or syndesmotic disruptions to the tibiofibular joint.

The Acu-Sinch Knotless buttons may be augmented with a washer or may be used in conjunction with the Acumed and OsteoMed® fibula fracture fixation plates and intramedullary nails with 3.5 mm nonlocking screw holes. Our patent pending release mechanism gives the user control to place the medial button subcutaneously without the need for direct visualization.



Acu-Sinch® Knotless System 3.5 mm

Knotless Repair System

FlexBraid suture is a self-locking, high-strength suture that does not require a knot for secure fixation.

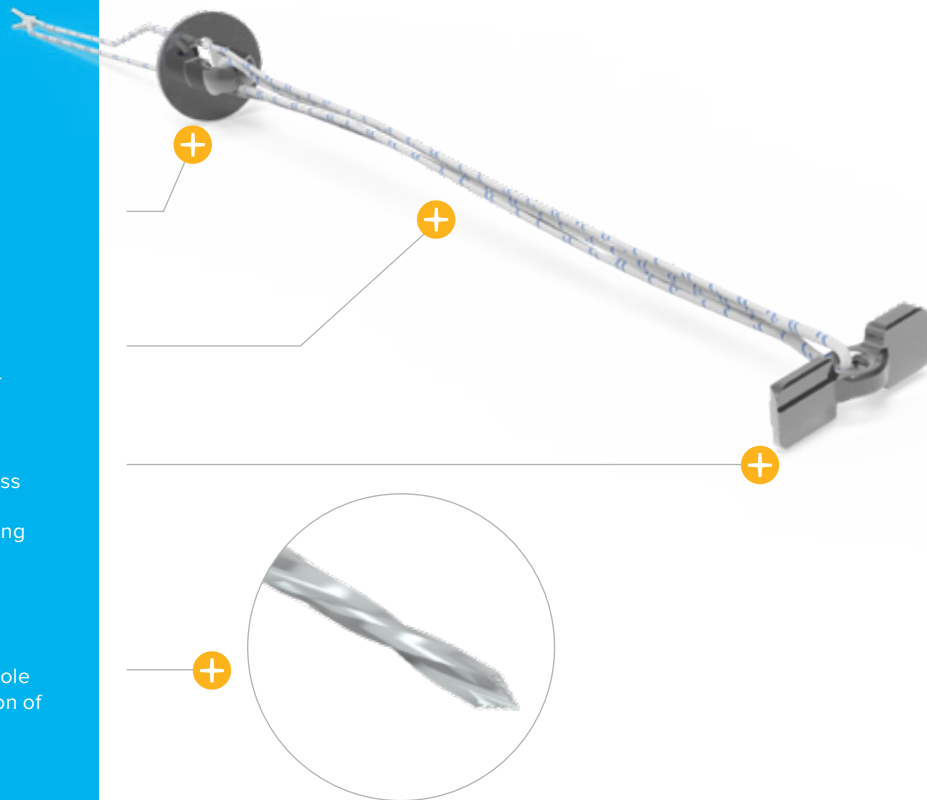
Low-profile titanium Round Button is compatible with a variety of titanium fibula plates with 3.5 mm nonlocking screw holes.

Self-locking suture loop made from #2 UHMWPE nonabsorbable HS Fiber enables an adjustable knotless repair.

Titanium Flip Button is designed to pass through a 3.5 mm bone tunnel, plates, or intramedullary nails with a nonlocking 3.5 mm hole.

3.5 mm Drill

A 3.5 mm drill is provided to drill the hole through the fibula and tibia for insertion of the device.





Patent pending Flip Button design obviates the need for a medial incision



Acu-Sinch Washer 3.5 mm



Compatible Acumed Nails

- ▶ Acumed Fibula Rods
- ▶ Acumed Fibula Nail 2

Compatible Acumed and OsteoMed® Plates

- ▶ Acumed Ankle 3 Lateral Fibula Plates
- ▶ Acumed 1/3 Tubular Plates
- ▶ Acumed Locking Ankle System (LPL) Fibula Plates
- ▶ OsteoMed ExtremiLock Ankle Lateral Fibula Plate
- ▶ OsteoMed 1/3 Tubular Plates

The Acu-Sinch Knotless System is provided on a disposable inserter handle preassembled and sterile packaged.

Handle Trigger

Spring-loaded trigger for one-step Flip Button delivery

Washers

Slotted titanium washer is designed for assembly over the suture after the Acu-Sinch Knotless has been deployed, for increased surface area on the bone

	Acumed® Streamline Syndesmosis Repair System	Arthrex Syndesmosis TightRope XP Implant System	Zimmer-Biomet ZipTight Implant System
Button Material	Titanium Alloy	Stainless Steel and Titanium	Stainless Steel and Titanium
Suture Material/Suture	UHMWPE FlexBraid® HS Suture	UHMWPE/Polyester FiberWire Suture	UHMWPE MaxBraid Suture
Medial Incision	No	No	Needles through Skin
Knotless	Yes	Yes	Yes
Drill Size	3.5 mm	3.7 mm	3.2 mm
Compatibility with Fibula Plates and Nails	Lateral Fibula Plates, Posterolateral Fibula Plates, 1/3 Tubular Plates, Fibula Rod, titanium implants with non-threaded holes designed to accommodate 3.5 mm cortical screws	Lateral Fibula Plates, Syndesmosis Plates	Lateral Fibula Plates, 1/3 Tubular Plates

Wright Medical
GRAVITY SYNCHFIX
Implant

Smith & Nephew
INVISIKNOT
Implant System

Titanium

Titanium

UHMWPE
ForceFiber Suture

UHMWPE
ULTRATAPE Suture

Yes

Yes

No, single square knot
recommended

No, two surgical knots
required

2.8 mm

3.5 mm

Lateral Fibula Plates,
Syndesmosis Plates

Lateral Fibula Plates,
Posterolateral Fibula Plates,
1/3 Tubular Plates

Benefits of the Ankle Syndesmosis Repair

Streamlined Design and Technique

- ▶ Fibula Button and suture automatically ejects from the handle after deployment
- ▶ Straight-pull cinching secures the device
- ▶ No need to alternate tensioning each suture limb individually until secured

Fibula-Side Implantation Method

- ▶ Does not require a medial incision on the tibia.

Knotless Profile

- ▶ Suture limbs can be cut flush to the fibula button for a no-knot profile.

Ankle Syndesmosis Repair device is compatible with titanium implants (e.g. plates, nails) that have non-threaded holes designed to accept 3.5 mm cortical screws.



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References

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