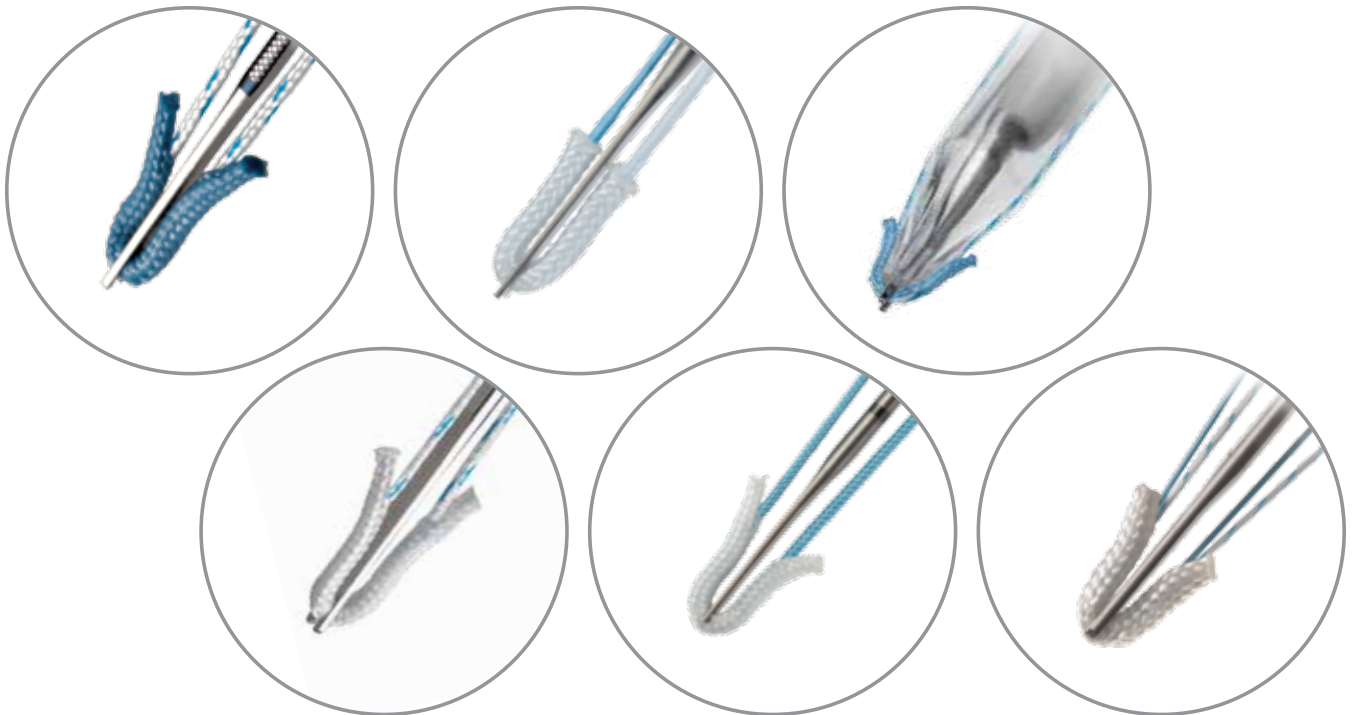


# JuggerKnot<sup>®</sup> and JuggerKnotless<sup>®</sup> Soft Anchor

All-Inclusive Brochure





# JuggerKnot Soft Anchor

## The Leader in All-Suture Anchors<sup>1</sup>

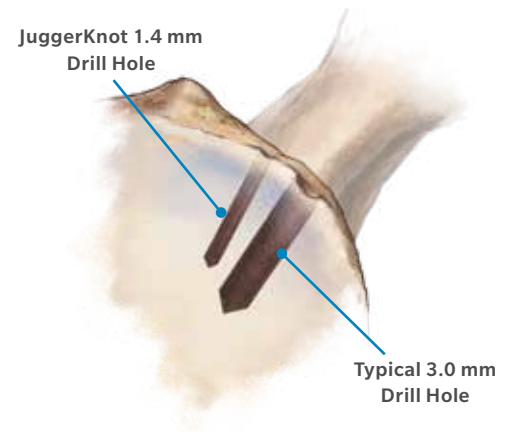
Zimmer Biomet has completely redefined how soft tissue repair is performed with the design of the JuggerKnot Soft Anchor. An article published by *PRWeb* in March 2013 stated, “There are currently two major developments in the U.S. orthopedic device market that are making drastic impacts, both in the soft tissue and orthopedic biomaterials market. Due to technological innovations by the market leader Zimmer Biomet, patients with shoulder labrum tears or rotator cuff damage from sports or age-related injuries can now expect better quality restoration.”<sup>1</sup>

The award winning JuggerKnot Soft anchor began with a 1.4 mm diameter, 100% suture based anchor system and has quickly evolved into a family of anchors that offer sizing options for many different procedures.



## They're Small

- The volume of bone that is removed with a 3.0 mm drill is equivalent to four JuggerKnot 1.4 mm anchor drill holes<sup>9</sup>
- Reduces the removal of bone
- Smaller diameter drill size reduces the likelihood of intersecting anchor tunnels when placing multiple anchors
- Allows for multiple points of fixation when repairing soft tissue to bone



## They're Strong

- Strength is equal or greater than some anchors two or three times larger<sup>2</sup>
- High pullout strength<sup>3,4</sup>

## They're All-Suture

- Soft anchor deployment system with no rigid component
- Eliminates the possibility of rigid material loose bodies in the joint
- Allows blood to repair site
- Facilitates revision surgery

## And Now They're Knotless

- Ability to control anchor tension
- Built on the clinical history of the JuggerKnot Soft Anchor
- No hand tied knots
- JuggerKnotless demonstrated 57 lbs of pullout strength<sup>5</sup>

## JuggerKnotless Soft Anchor

### First All-Suture Knotless Anchor

The clinical experience of the JuggerKnot Soft Anchor and innovative knotless design of the ZipLoop™ Technology has paved the foundation for the development of the JuggerKnotless Soft Anchor.

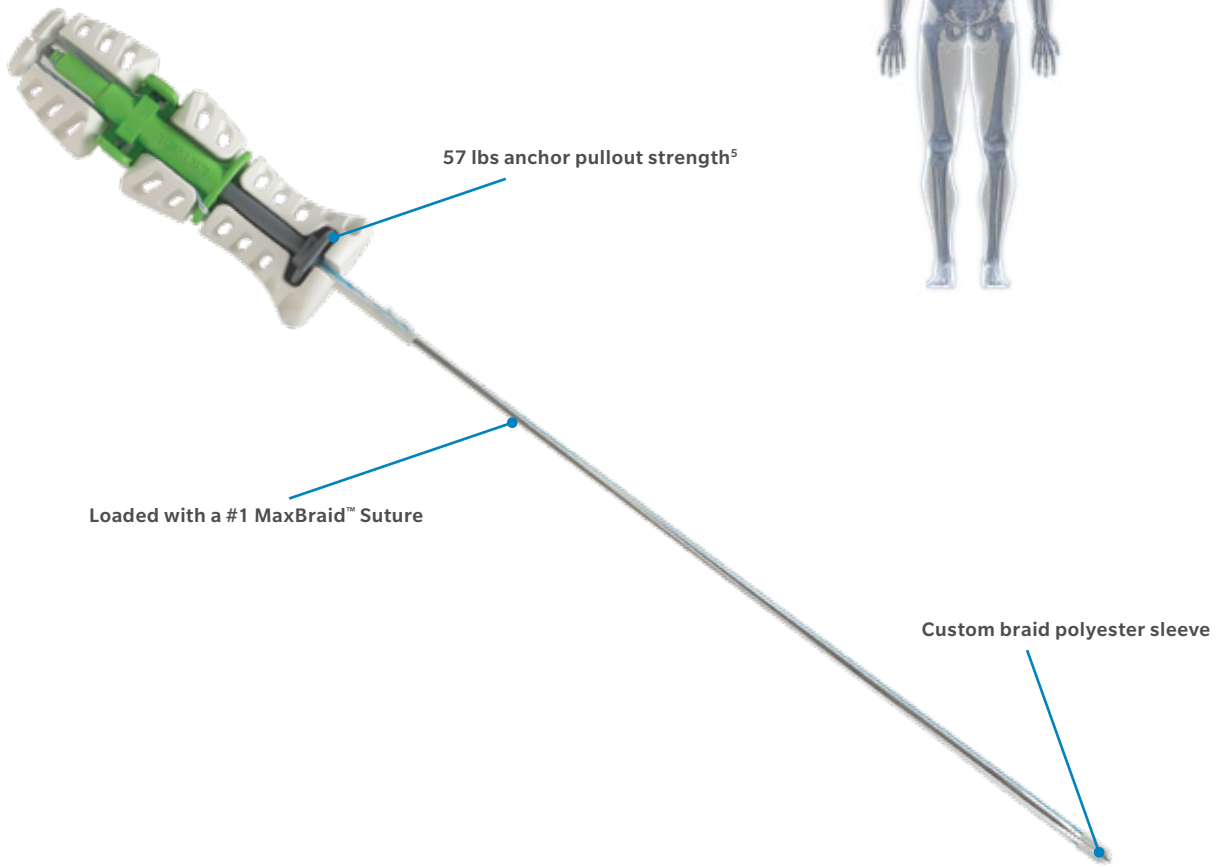
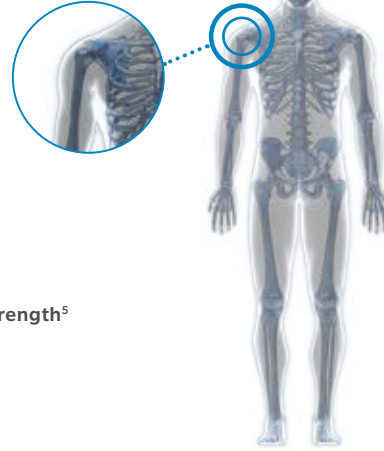
The JuggerKnotless Soft Anchor is designed for the reattachment of soft tissue to bone without the hassle of tying surgical knots. It is the first all-suture knotless anchor on the market. The design of the anchor allows surgeons the ability to control the tension of the anchor with their hands. In addition, this design provides for a one size fits all option, which may reduce the need to carry multiple sizes in inventory.



## JuggerKnotless Soft Anchor 2.1 mm

JuggerKnotless  
Soft Anchor Inserters

Most Commonly Used



57 lbs anchor pullout strength<sup>5</sup>

Loaded with a #1 MaxBraid™ Suture

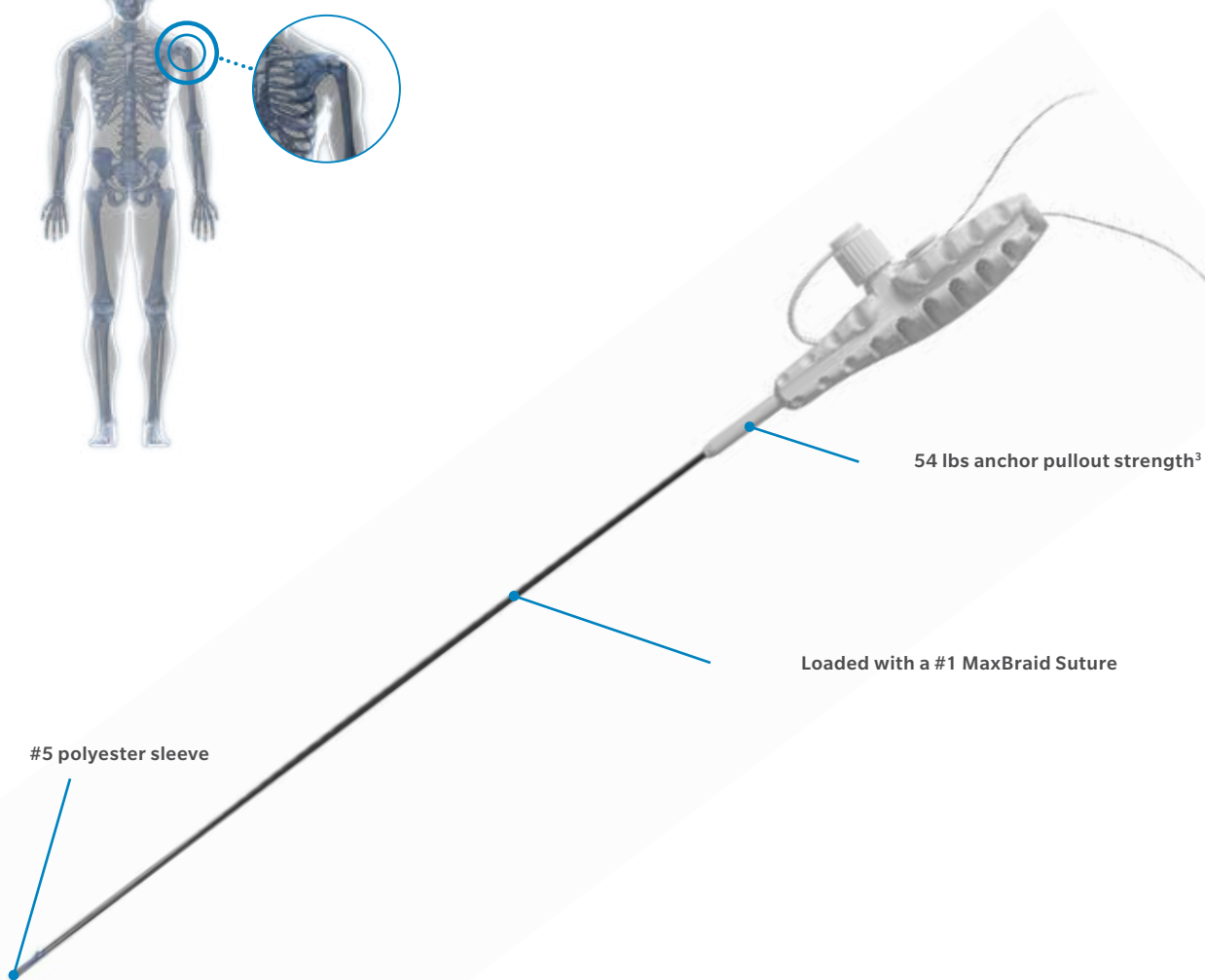
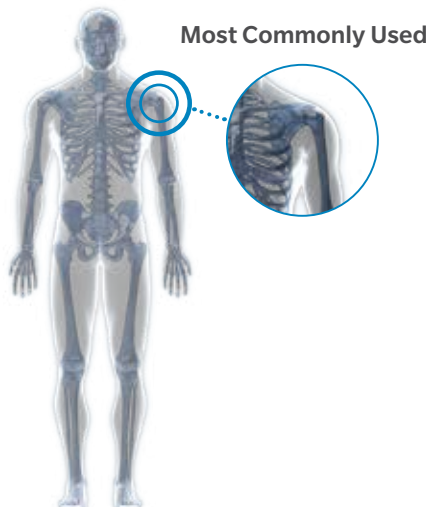
Custom braid polyester sleeve

### Surgical Technique available for:

- Labral Repair

Instrumentation and Ordering Information  
for JuggerKnotless Soft Anchor 2.1 mm  
can be found on pages 16–17.

## JuggerKnot Soft Anchor 1.4 mm

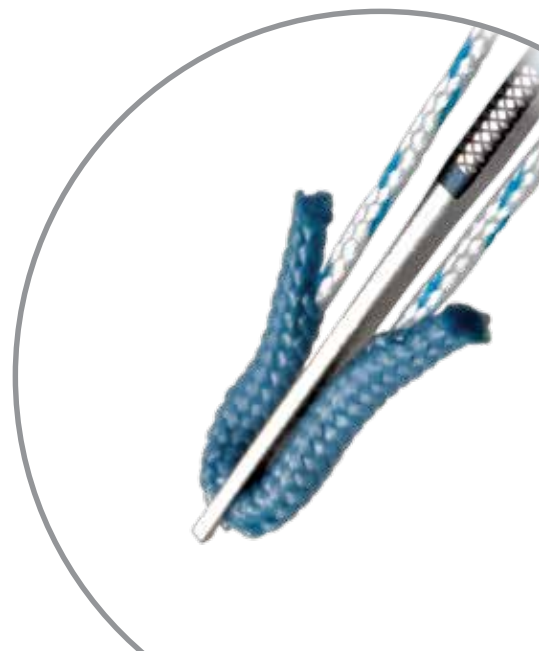


JuggerKnot  
Soft Anchor Inserters

### Surgical Technique available for:

- Labral Repair
- Curved Delivery for Bankart/SLAP Lesion Repair
- Percutaneous Instrumentation for Low Profile/Trans-Cuff SLAP Repair

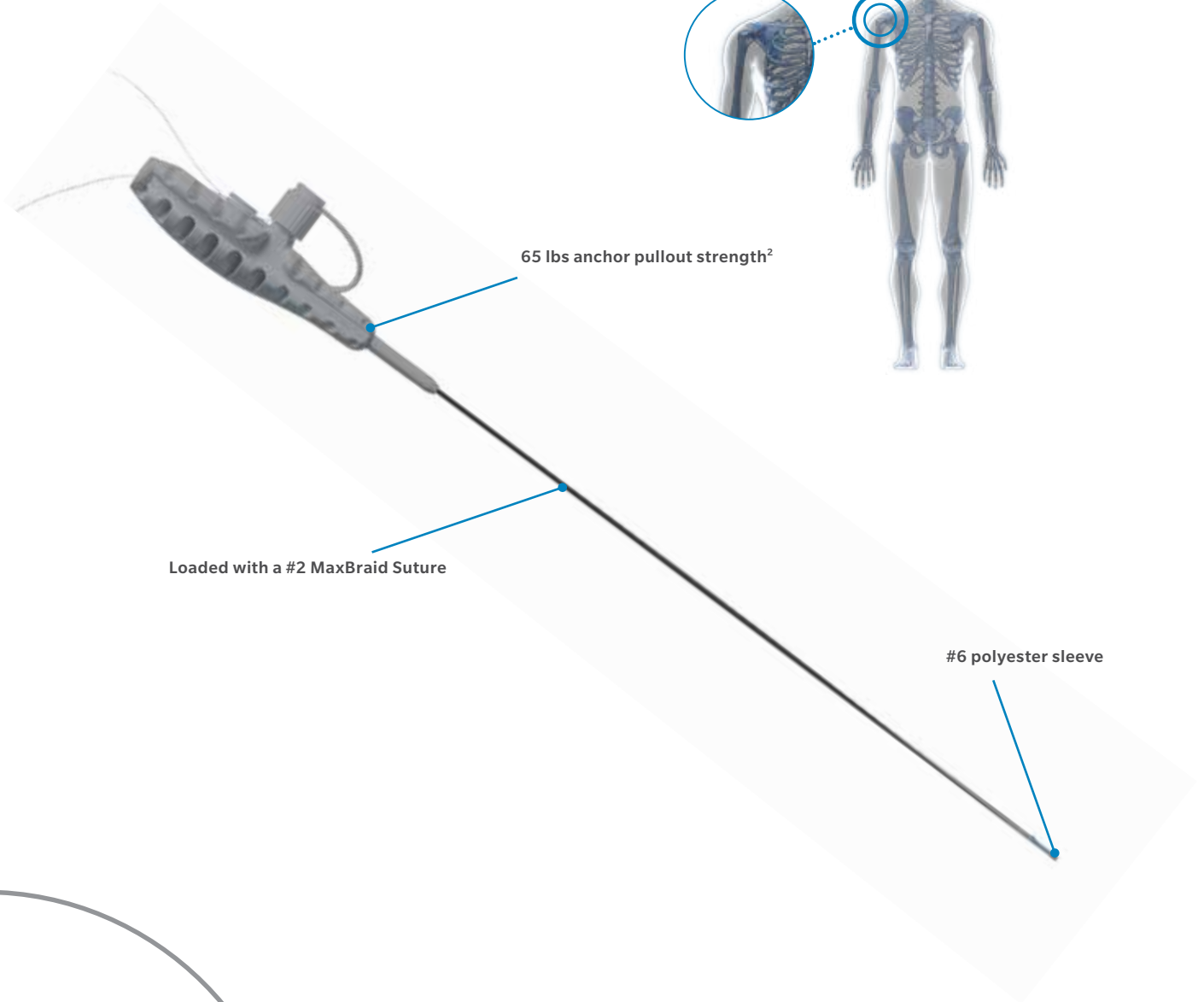
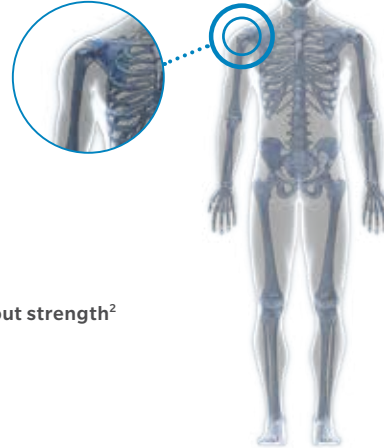
Instrumentation and Ordering Information for JuggerKnot Soft Anchor 1.4 mm can be found on pages 18–19.



## JuggerKnot Soft Anchor 1.5 mm

JuggerKnot  
Soft Anchor Inserters

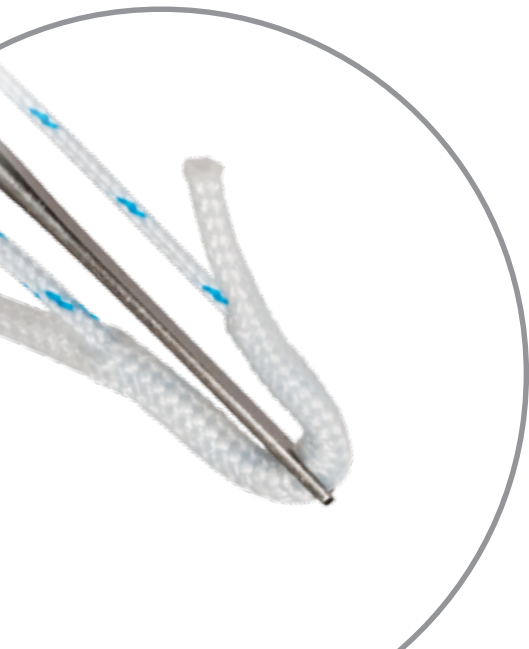
Most Commonly Used



Loaded with a #2 MaxBraid Suture

65 lbs anchor pullout strength<sup>2</sup>

#6 polyester sleeve



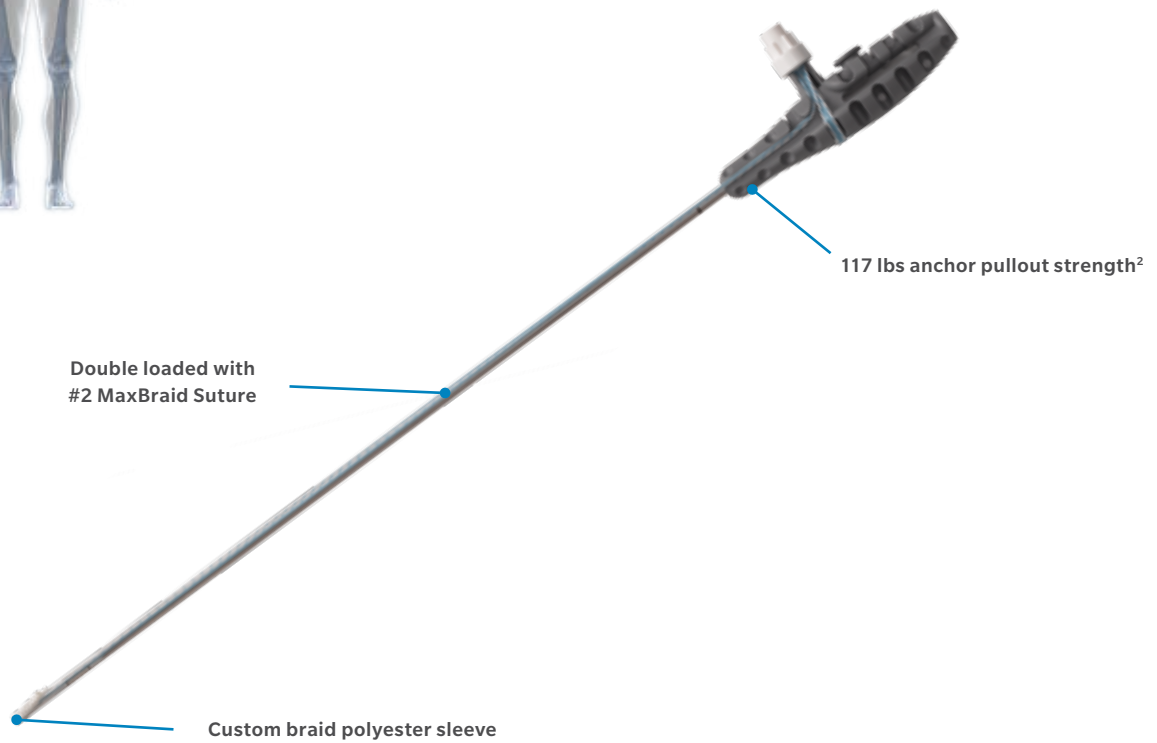
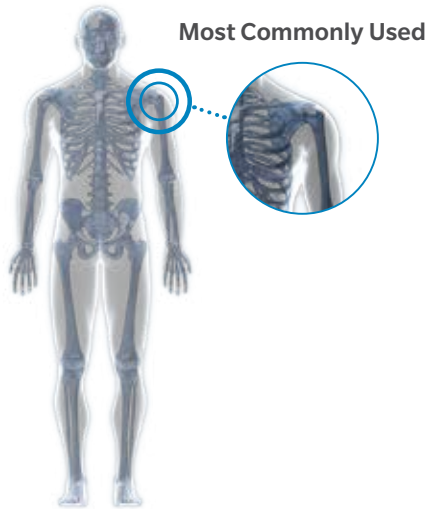
### Surgical Technique available for:

- Curved Delivery for Bankart/SLAP Lesion Repair
- Percutaneous Instrumentation for Low Profile/Trans-Cuff SLAP Repair
- Percutaneous Instrumentation for Low Profile/Trans-Cuff PASTA Repair

Instrumentation and Ordering Information for JuggerKnot Soft Anchor 1.5 mm can be found on pages 18–19.



## JuggerKnot Soft Anchor 2.9 mm

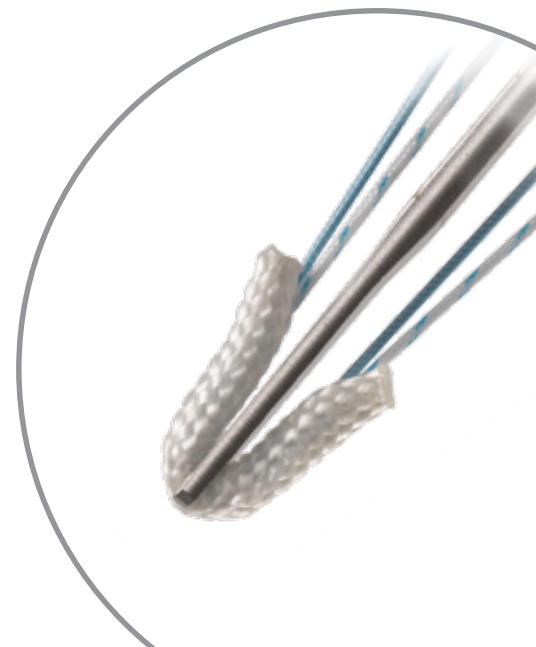


JuggerKnot  
Soft Anchor Inserters

### Surgical Technique available for:

- Arthroscopic and Mini-Open Rotator Cuff Repair

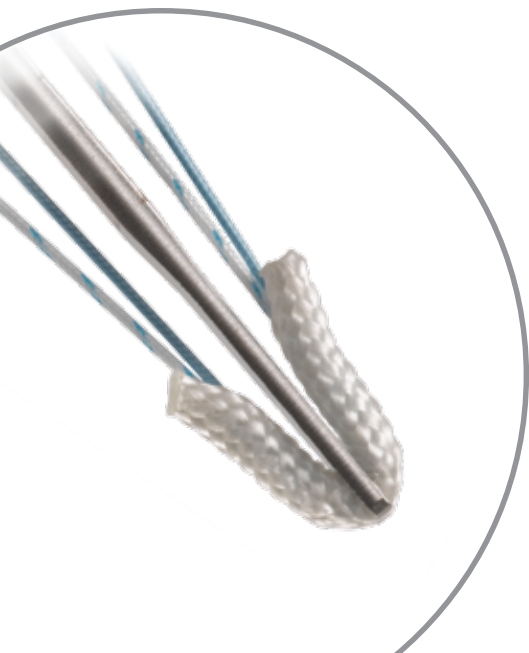
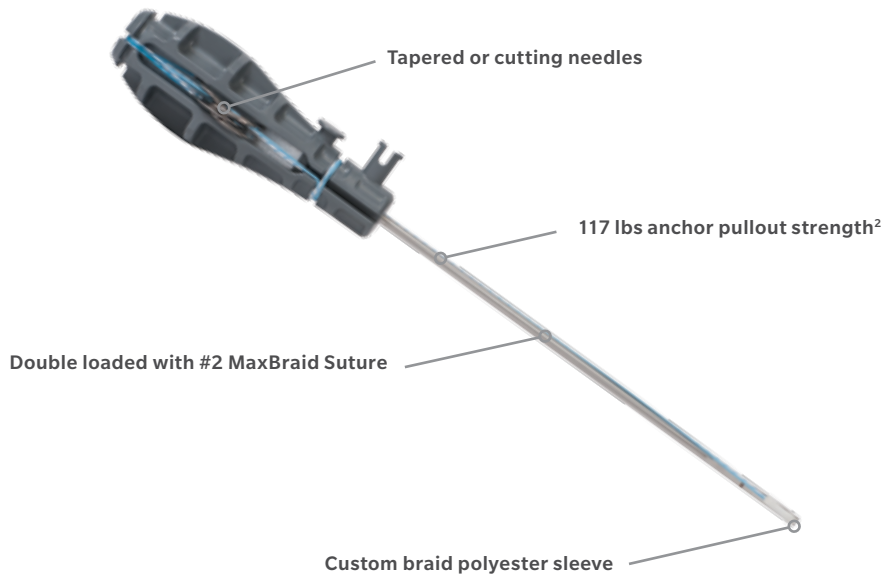
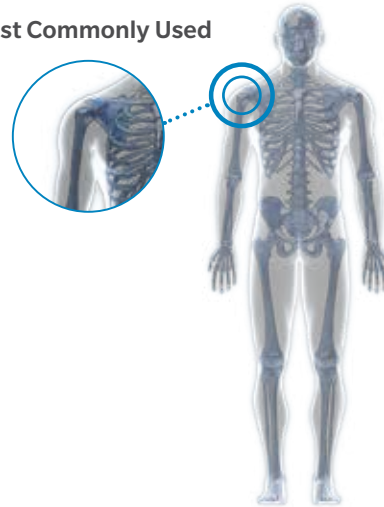
Instrumentation and Ordering Information for JuggerKnot Soft Anchor 2.9 mm can be found on pages 20–21.



## JuggerKnot Soft Anchor 2.9 mm with Needles

JuggerKnot  
Soft Anchor Inserters

Most Commonly Used

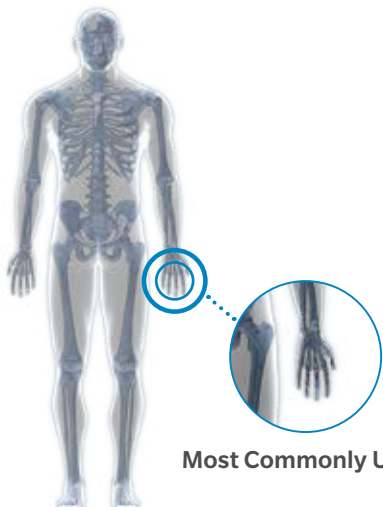


### Surgical Technique available for:

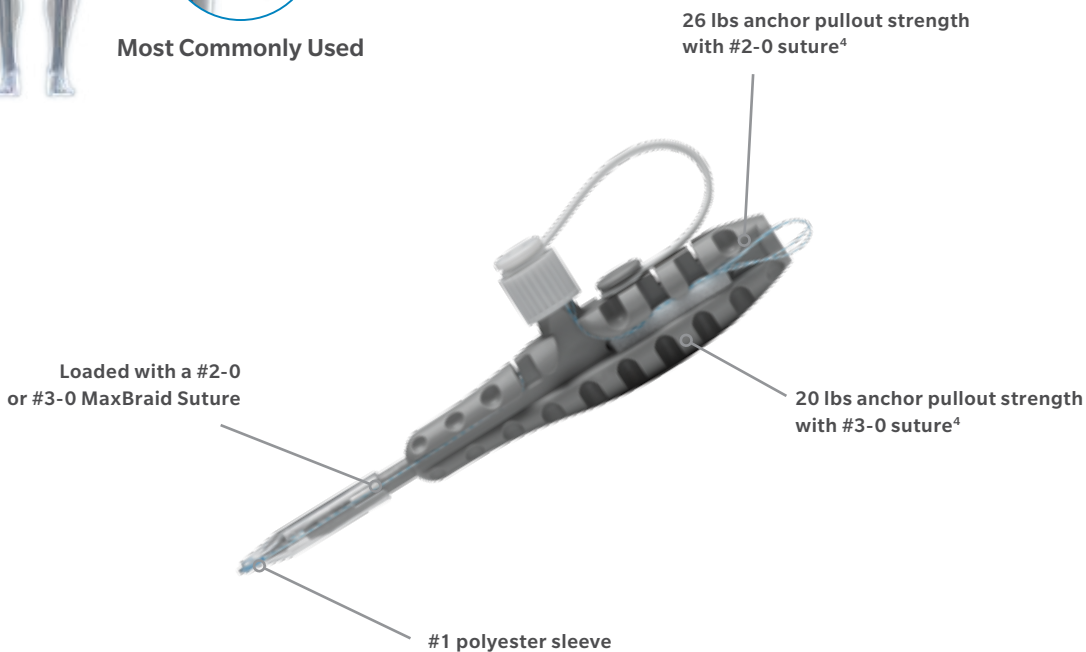
- Arthroscopic and Mini-Open Rotator Cuff Repair

Instrumentation and Ordering Information for JuggerKnot Soft Anchor 2.9 mm with Needles can be found on pages 20–21.

## JuggerKnot Soft Anchor 1.0 mm Mini



Most Commonly Used

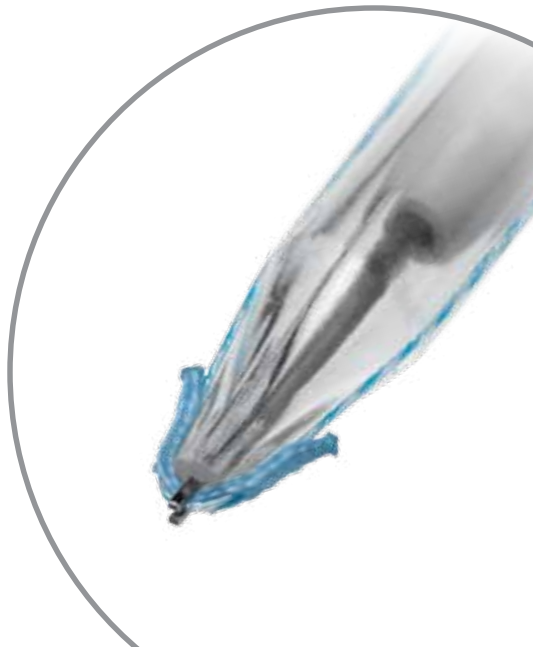


JuggerKnot  
Soft Anchor Inserters

### Surgical Technique available for:

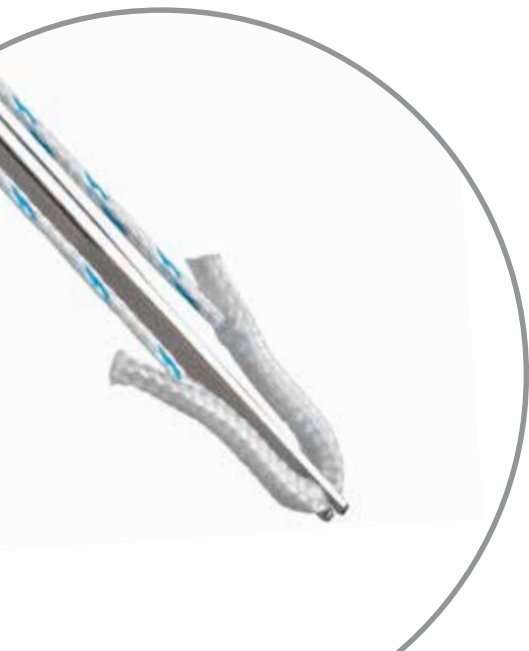
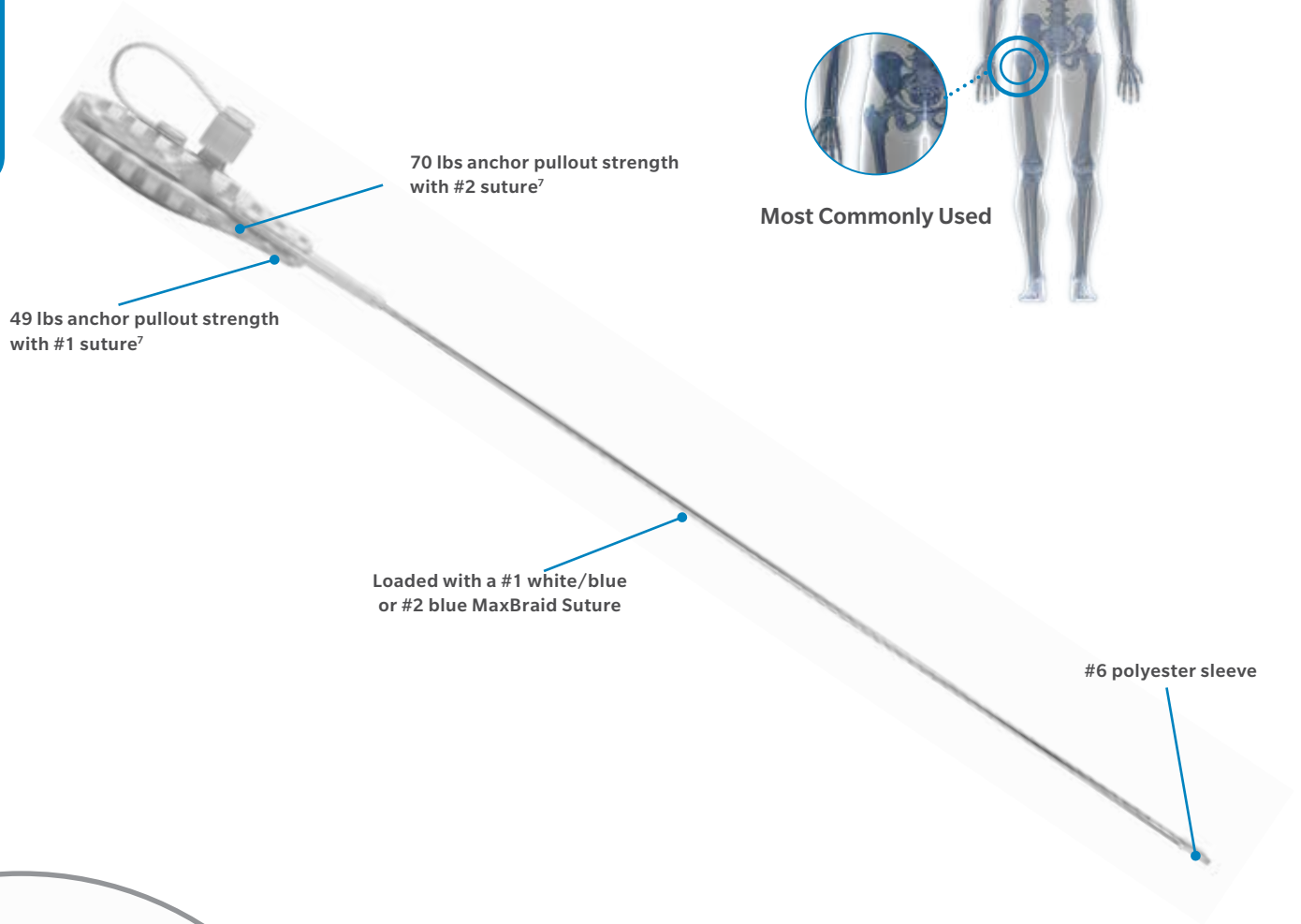
- Scapholunate Ligament Repair
- Ulnar Collateral Ligament Repair

Instrumentation and Ordering Information for JuggerKnot Soft Anchor 1.0 mm Mini can be found on pages 22–23.



## JuggerKnot 1.45 mm Long Soft Anchor

JuggerKnot  
Soft Anchor Inserters

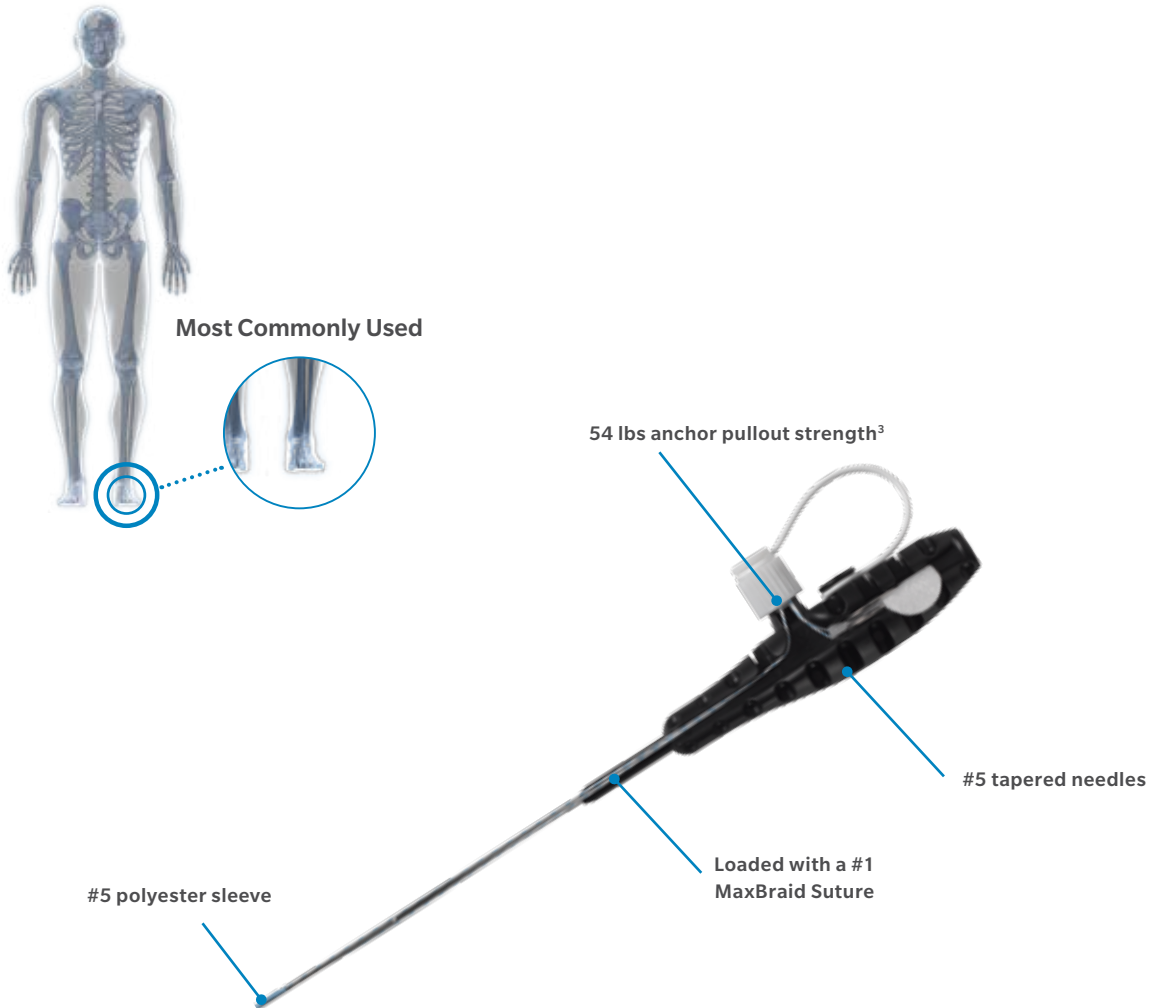


### Surgical Technique available for:

- Hip Acetabular Labral Repair

Instrumentation and Ordering Information for JuggerKnot 1.45 mm Long Soft Anchor can be found on pages 22–23.

## JuggerKnot Soft Anchor 1.4 mm Short

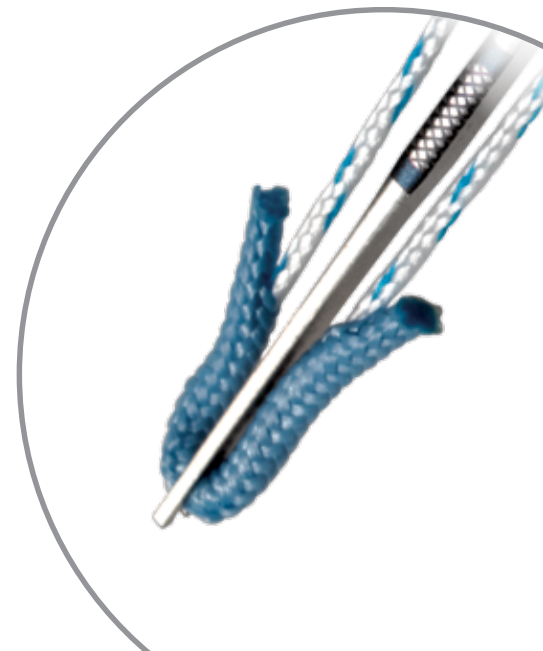


JuggerKnot  
Soft Anchor Inserters

### Surgical Technique available for:

- Lateral Epicondylitis Repair
- Midfoot Repair
- Lateral Ankle Repair
- Achilles Tendon Repair

Instrumentation and Ordering Information for JuggerKnot Soft Anchor 1.4 mm Short can be found on pages 24–25.



## JuggerKnot Soft Anchor 1.45 mm Short Rigid

JuggerKnot  
Soft Anchor Inserters



Most Commonly Used

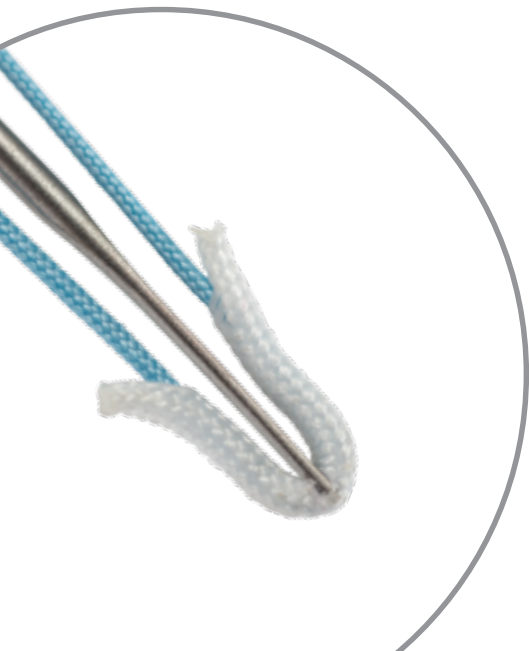
52 lbs anchor pullout strength  
with #1 suture<sup>8</sup>

78 lbs anchor pullout strength  
with #2 suture<sup>8</sup>

#5 tapered needles

Loaded with a #1 blue/white  
or #2 blue MaxBraid Suture

#5 polyester sleeve



Instrumentation and Ordering Information  
for JuggerKnot Soft Anchor 1.45 mm Short  
Rigid can be found on page 24–25.

## JuggerKnotless Soft Anchor 2.1 mm Instrumentation

### 2.1 mm Disposable Kit



JuggerKnotless Disposable Kit

### 2.1 mm Reusable Instruments



Reusable Low Profile Obturator

Reusable Low Profile Trocar

Reusable Low Profile Four-Prong Guide

Reusable Low Profile Fishmouth Guide

Fishmouth Guide



Four-Prong Guide



## Ordering Information

### Implants

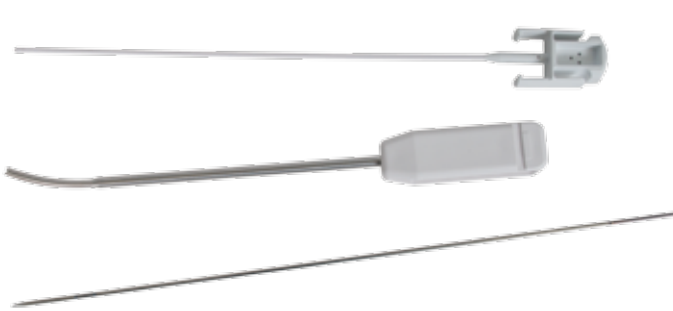
<b>Part Number</b>	<b>Description</b>
110005198	JuggerKnotless SS Implant
110005199	JuggerKnotless SS Implant (Package of 10)

### Instrumentation

<b>Part Number</b>	<b>Description</b>
110003182	JuggerKnotless Disposable Low Profile Drill Bit (Sterile)
110003172	JuggerKnotless Disposable Kit
110017436	JuggerKnotless Reusable Low Profile Fishmouth Guide
110017434	JuggerKnotless Reusable Low Profile Obturator
110017433	JuggerKnotless Reusable Low Profile Trocar
110003181	JuggerKnotless Reusable Low Profile Four-Prong Guide



## JuggerKnot Soft Anchor 1.4 mm and 1.5 mm Instrumentation

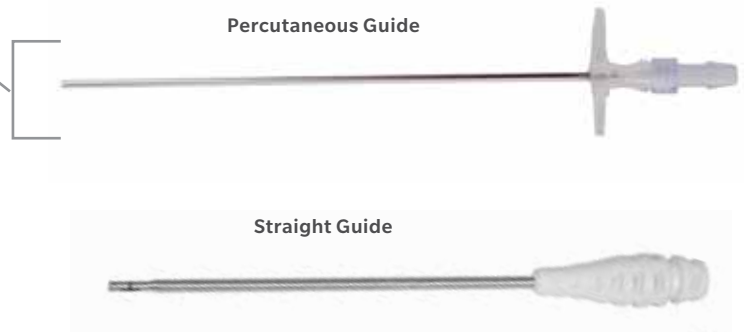


### 1.4/1.5 mm Curved Instrumentation

- 23° curvature
- Ability to drill a hole perpendicular to bone surface at anchor site
- Allows anchor to be placed through interval portals without compromising the rotator cuff.
- Kit also available with Straight Guide

### 1.4/1.5 mm Percutaneous Instrumentation

- Allows anchor to be inserted into the skin through a 2.4 mm diameter guide, minimizing tissue trauma
- Allows for multiple access points for labral tear repair
- No need for cannula



JuggerKnot  
Soft Anchor  
Instrumentation



### 1.4/1.5 mm Centering Sleeve Instrumentation

- Assists with consistent anchor placement via the curved guide by centering anchors in the drill hole

## Ordering Information

### Implants

Part Number	Description
912000	JuggerKnot Soft Anchor- 1.4 mm 2 Implant Pack (Guide, Drill Bit)
912030	JuggerKnot Soft Anchor- 1.4 mm Single Loaded Implant
912010	JuggerKnot Soft Anchor- 1.4 mm (Package of 10)
912031	JuggerKnot Soft Anchor-1.5 mm Single Loaded Implant
912015	JuggerKnot Soft Anchor-1.5 mm (Package of 10)

### Instrumentation

Part Number	Description
912038	Reusable Trocar
912036R	Rigid Drill Bit
912039	Reusable Obturator
912038P	Percutaneous Trocar
912035C	Reusable Curved Guide
912038C	Flexible Trocar
912036	Flexible Drill Bit
912039C	Flexible Obturator
912136	Sterile Single Flexible Drill Bit
912040	Disposable Kit (Guide, Flex Drill Bit)
912040R	Disposable Kit (Guide, Rigid Drill Bit)
912040C	Disposable Curved Kit (Curved Guide, Flex Drill Bit)
912040P	Percutaneous Kit (Guide, Drill Bit)
912140C	1.4 mm Centering Sleeve Kit (Curved Guide with Drill Sleeve)
912045	1.4 mm Centering Sleeve Kit (Flex Drill Bit with Drill Sleeve)
912035	Straight Reusable Guide
912037R	Rigid Drill (Gold)
912035C	Curved Reusable Guide
912037	Flex Drill (Black)
912041	Straight Disposable Kit (Guide, Large Shank Drill)
912041C	Curved Disposable Kit (Guide, Drill Bit)
912141C	1.5 mm Centering Sleeve Kit (Curved Guide with Drill Sleeve)
912046	1.5 mm Centering Sleeve Kit (Flex Drill Bit with Drill Sleeve)

## JuggerKnot Soft Anchor 2.9 mm with and without Needles Instrumentation

### 2.9 mm/2.9 mm with Needles Instrumentation



2.9 mm and 2.9 with Needles In Guide Punch



2.9 mm with Needles Reusable Short Guide

### 2.9 mm Instrumentation



2.9 mm Disposable Guide



2.9 mm Reusable Guide



2.9 mm Disposable Kit



## Ordering Information

### Implants

Part Number	Description
912029	JuggerKnot Soft Anchor-2.9 mm Double Loaded #2 MaxBraid Suture BL/WH-BL-Single Loaded
912529	JuggerKnot Soft Anchor-2.9 mm Double Loaded #2 MaxBraid Suture BL/WH-BL (Package of 10)
110005093	JuggerKnot Soft Anchor- 2.9 mm with Needles with Cutting Needles
110005096	JuggerKnot Soft Anchor-2.9 mm with Needles with Tapered Needles
110005241	JuggerKnot Soft Anchor-2.9 mm with Needles with Cutting Needles (Package of 10)
110005242	JuggerKnot Soft Anchor-2.9 mm with Needles with Tapered Needles (Package of 10)

### Instrumentation

Part Number	Description
912090G	Reusable Drill Guide
912091	Sterile Disposable Drill Bit
912092G	Reusable Obturator
912093G	Reusable Trocar
912064	Reusable In-Guide Punch
912057	JuggerKnot Soft Anchor- 2.9 mm Disposable Instrument Kit (Guide, Obturator, Drill Bit)
110005306	JuggerKnot Soft Anchor- 2.9 mm with Needles Drill Bit Short Shaft Sterile Pack
912059	JuggerKnot Soft Anchor- 2.9 mm with Needles Short Punch
1100016951	JuggerKnot Soft Anchor- 2.9 mm with Needles Reusable Short Guide

## **JuggerKnot Soft 1.0 mm Mini and 1.45 mm Long Anchor Instrumentation**

### **1.0 mm Mini Instrumentation**



Drill Bit

### **1.45 mm Long Anchor Instrumentation**



Straight Guide



Flexible Drill Bit



Rigid Drill Bit (Large Shank)

### **1.45 mm Long Anchor Curved Instrumentation**



Curved Guide



Centering Sleeve

JuggerKnot  
Soft Anchor  
Instrumentation

## Ordering Information

### Implants

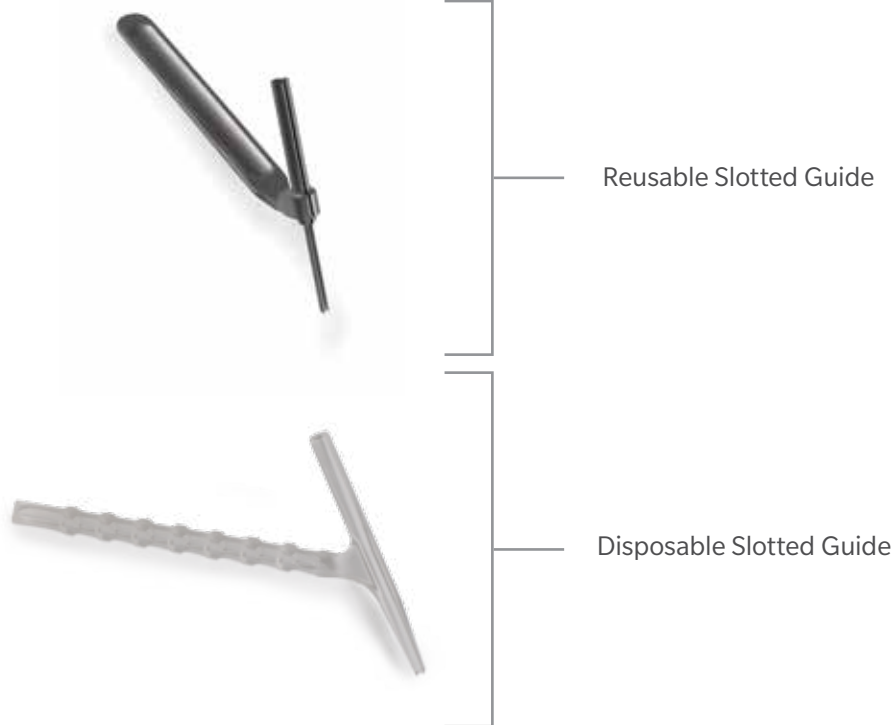
Part Number	Description
912076	JuggerKnot Soft Anchor-1.0 mm Mini with 2-0 Needles with Drill
912080	JuggerKnot Soft Anchor-1.0 mm Mini with 2-0 Needles (Package of 10)
912082	JuggerKnot Soft Anchor-1.0 mm with 3-0 Needles with Drill
912084	JuggerKnot Soft Anchor-1.0 mm with 3-0 Needles (Package of 10)
916030	JuggerKnot Long Soft Anchor #1 Single Loaded
010000334	JuggerKnot Long Soft Anchor #1 (Package of 10)
010000324	JuggerKnot Long Soft Anchor #2 Single Loaded
010000335	JuggerKnot Long Soft Anchor #2 (Package of 10)

### Instrumentation

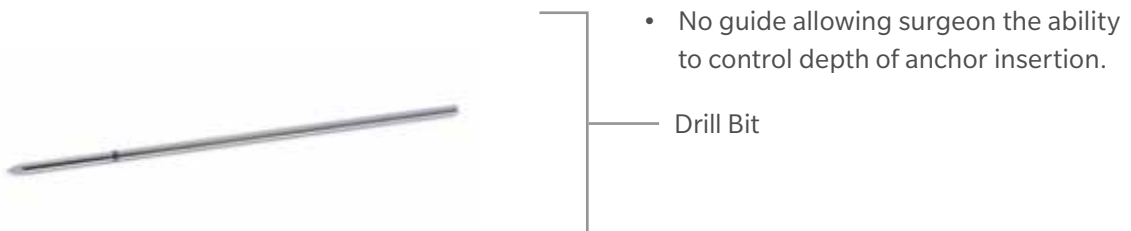
Part Number	Description
912077	JuggerKnot Soft Anchor 1.0 mm Mini Step Drill
110002759	JuggerKnot Long Soft Anchor 1.45 mm Reusable Fishmouth Guide
916020	JuggerKnot Long Soft Anchor 1.45 mm Disposable Curved Set (Guide, Centering Sleeve, and Flexible Drill Bit)
916034	JuggerKnot Long Soft Anchor 1.45 mm Reusable Curved Guide
916035	JuggerKnot Long Soft Anchor 1.45 mm Reusable Straight Four-Prong Guide
916036	JuggerKnot Long Soft Anchor 1.45 mm Disposable Flex Drill
916037	JuggerKnot Long Soft Anchor 1.45 mm Disposable Rigid Drill
916038	JuggerKnot Long Soft Anchor 1.45 mm Reusable Flex Trocar
916039	JuggerKnot Long Soft Anchor 1.45 mm Reusable Flex Obturator
916040	JuggerKnot Long Soft Anchor 1.45 mm Disposable Straight Guide Kit (Guide and Rigid Drill)
110016992	JuggerKnot Long Soft Anchor 1.45 mm Disposable Flex Drill with Centering Sleeve

## JuggerKnot Soft 1.4 mm Short and 1.45 mm Short Rigid Instrumentation

### 1.4 mm Short Instrumentation



### 1.45 mm Short Rigid Instrumentation



## Ordering Information

### Implants

<b>Part Number</b>	<b>Description</b>
912068	JuggerKnot 1.4 mm Short #1 Single Loaded
912069	JuggerKnot 1.4 mm Short #1 (Package of 10)
110005307	JuggerKnot 1.45 mm Short Rigid #1 Implant with Drill Bit
110005315	JuggerKnot 1.45 mm Short Rigid #2 Implant with Drill Bit
110005319	JuggerKnot 1.45 mm Short Rigid #1 Implant (Package of 10)
110005320	JuggerKnot 1.45 mm Short Rigid #2 Implant (Package of 10)

### Instrumentation

<b>Part Number</b>	<b>Description</b>
912071	Sterile Disposable Drill Bit
912072	Reusable guide
912073	JuggerKnot 1.4 mm Short Disposable Kit with Guide and Drill Bit
912075	JuggerKnot 1.4 mm Short Disposable Kit with Implant and Guide
110005323	JuggerKnot 1.45 mm Short Rigid Drill (Package of 5)



## JuggerKnot Soft Anchor

### INDICATIONS FOR USE

Intended for soft tissue to bone fixation for the following Indications:

#### Shoulder

- Bankart lesion repair
- S.L.A.P. lesion repair
- Acromio-clavicular repair
- Capsular shift / capsulolabral reconstruction
- Deltoid repair
- Rotator cuff tear repair
- Biceps tenodesis

#### Elbow

- Ulnar or radial collateral ligament reconstruction
- Lateral epicondylitis repair
- Biceps tendon reattachment

#### Hand and Wrist

- Collateral ligament repair
- Scapholunate ligament reconstruction
- Tendon transfers in phalanx
- Volar plate reconstruction

#### Hip

- Acetabular labral repair

#### Knee

- Extra-capsular repair: MCL, LCL, and posterior oblique ligament
- Iliotibial band tenodesis
- Patellar tendon repair
- VMO advancement
- Joint capsule closure

#### Foot and Ankle

- Medial / lateral repair and reconstruction
- Mid- and forefoot repair
- Hallux valgus reconstruction
- Metatarsal ligament/tendon repair or reconstruction
- Achilles tendon repair

## JuggerKnot Mini Soft Anchor

### INDICATIONS FOR USE

Intended for soft tissue to bone fixation for the following Indications:

#### Shoulder

- Bankart repair

#### Hand and Wrist

- Ulnar or lateral collateral ligament reconstruction
- Repair/reconstruction of collateral ligaments
- Flexor and extensor tendon at the PIP, DIP, and MCP joints for all digits.
- Scapholunate ligament reconstruction

#### Foot and Ankle

- Midfoot reconstruction
- Hallux valgus reconstruction

## JuggerKnotless Soft Anchor

### INDICATIONS FOR USE

Indicated for soft tissue reattachment procedures for the following indications:

#### Shoulder

- Acromio-clavicular Separation
- Anterior Shoulder Instability Repair
- Bankart lesion repair
- Biceps tenodesis
- Capsule Repair or Capsulolabral Reconstruction
- Deltoid Repair
- Rotator Cuff Repair
- S.L.A.P. Lesion Repair

#### Elbow

- Biceps Tendon Reattachment
- Biceps Tendon Reconstruction
- Lateral/Medial Repairs
- Lateral Epicondylitis Repair (Tennis Elbow Repair)
- Ulnar & Radial Collateral Ligament Reconstruction

#### Hand and Wrist

- Collateral Ligament Repair (Gamekeeper's Thumb)
- Scapholunate Ligament Reconstruction
- Tendon Transfers in Phalanx
- Volar Plate Reconstruction

#### Hip

- Labral

#### Knee

- Iliotibial Band Tenodesis
- Joint Capsule Closure
- Lateral/Medial Collateral Ligament Repair
- Patellar Ligament Repair
- Patellar Tendon Repair
- Patellar Realignment/Repair
- Posterior Oblique/Ligament Repair
- VMO Advancement

#### Foot and Ankle

- Medial / lateral stabilization repairs and reconstruction
- Mid- and forefoot reconstruction/repairs
- Hallux valgus reconstruction
- Achilles tendon repair/reconstruction

### CONTRAINDICATIONS

- Infection.
- Patient conditions including blood supply limitations and insufficient quantity or quality of bone or soft tissue.
- Patients with mental or neurologic conditions who are unwilling or incapable of following post operative care instructions or patients who are otherwise unwilling or incapable of doing so.
- Foreign Body sensitivity. Where material sensitivity is suspected, testing is to be completed prior to implantation of device.





## References

1. PRWeb. Biomet, Terumo, and Arterioocyte Trail Blaze in US Orthopedic Device Markets, Claiming Nearly Entire Market Share Reports iData Research. March 13, 2013. <http://www.prweb.com/releases/prweb2013/3/prweb10519419.htm>.
2. Barber FA, M.D, Herbert MA, Ph.D. "Cyclic Loading Biomechanical Analysis of the Pullout Strengths of Rotator Cuff and Glenoid Anchors: 2013 Update." Arthroscopy 2013, Article in Press. Bench test results are not necessarily indicative of clinical results.
3. Barber FA, Herbert MA, Hapa O, Rapley JH, Barber CA, Bynum JA, Hrnack SA. "Biomechanical Analysis of Pullout Strength of Rotator Cuff and Glenoid Anchors. 2011 Update." Arthroscopy 2011. Bench test results are not necessarily indicative of clinical results.
4. Data on file at Biomet Sports Medicine. Test Report BSM03. Bench test results are not necessarily indicative of clinical results.
5. Data on File at Biomet Sports Medicine. Biomechanical Evaluation of the Biomet Sports Medicine Juggernaut Soft Anchor. BMET0769.0-GBL. Bench test results are not necessarily indicative of clinical results.
6. Data on file at Biomet Sports Medicine. Test Report AT47D. Bench test results are not necessarily indicative of clinical results.
7. Data on file at Biomet Sports Medicine. Test Report BSM4. Bench test results are not necessarily indicative of clinical results.
8. Data on file at Biomet Sports Medicine. Test Report BSM17. Bench test results are not necessarily indicative of clinical results.
9. Email Chain Data on file at Biomet Sports Medicine.

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