

## *JuggerKnot* Soft Anchor

All-Inclusive Brochure



**BIOMET**  
SPORTS MEDICINE

## *One Surgeon. One Patient.*

**Over 1 million times per year, Biomet helps one surgeon provide personalized care to one patient.**

The science and art of medical care is to provide the right solution for each individual patient. This requires clinical mastery, a human connection between the surgeon and the patient, and the right tools for each situation.

At Biomet, we strive to view our work through the eyes of one surgeon and one patient. We treat every solution we provide as if it's meant for a family member.

Our approach to innovation creates real solutions that assist each surgeon in the delivery of durable personalized care to each patient, whether that solution requires a minimally invasive surgical technique, advanced biomaterials or a patient-matched implant.

**When one surgeon connects with one patient to provide personalized care, the promise of medicine is fulfilled.**

# *JuggerKnot* Soft Anchor

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

Biomet has completely redefined how soft tissue repair will ever be performed with the design of the JuggerKnot Soft Anchor. A recent article stated soft tissue anchors are a major development in the U.S. Orthopedic device market, making drastic impact in soft tissue repair.”<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.



# JuggerKnot Soft Anchor

## Multiple Indications:

### JuggerKnot Soft Anchor

#### Shoulder

- Bankart lesion repair
- SLAP 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

#### 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

## Contraindications

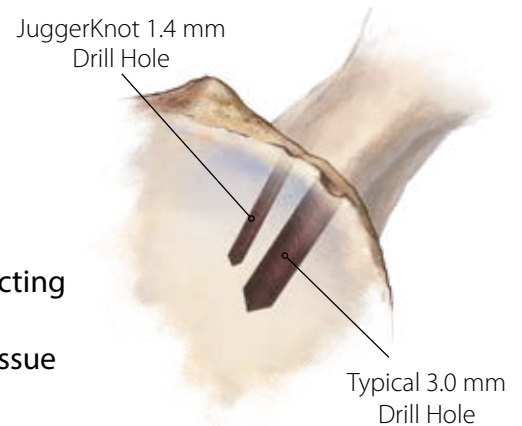
- Infection.
- Patient conditions including blood supply limitations and insufficient quantity or quality of bone or soft tissue.
- Patients with mental or neurologic conditions who are unwilling or incapable of following post operative care instructions or patients who are otherwise unwilling or incapable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

# JuggerKnot Soft Anchor

## It's as simple as 1, 2, 3!

### 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.
- 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

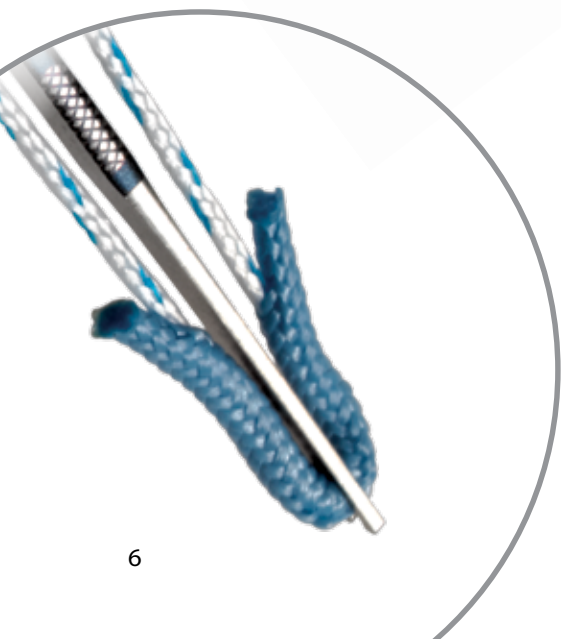
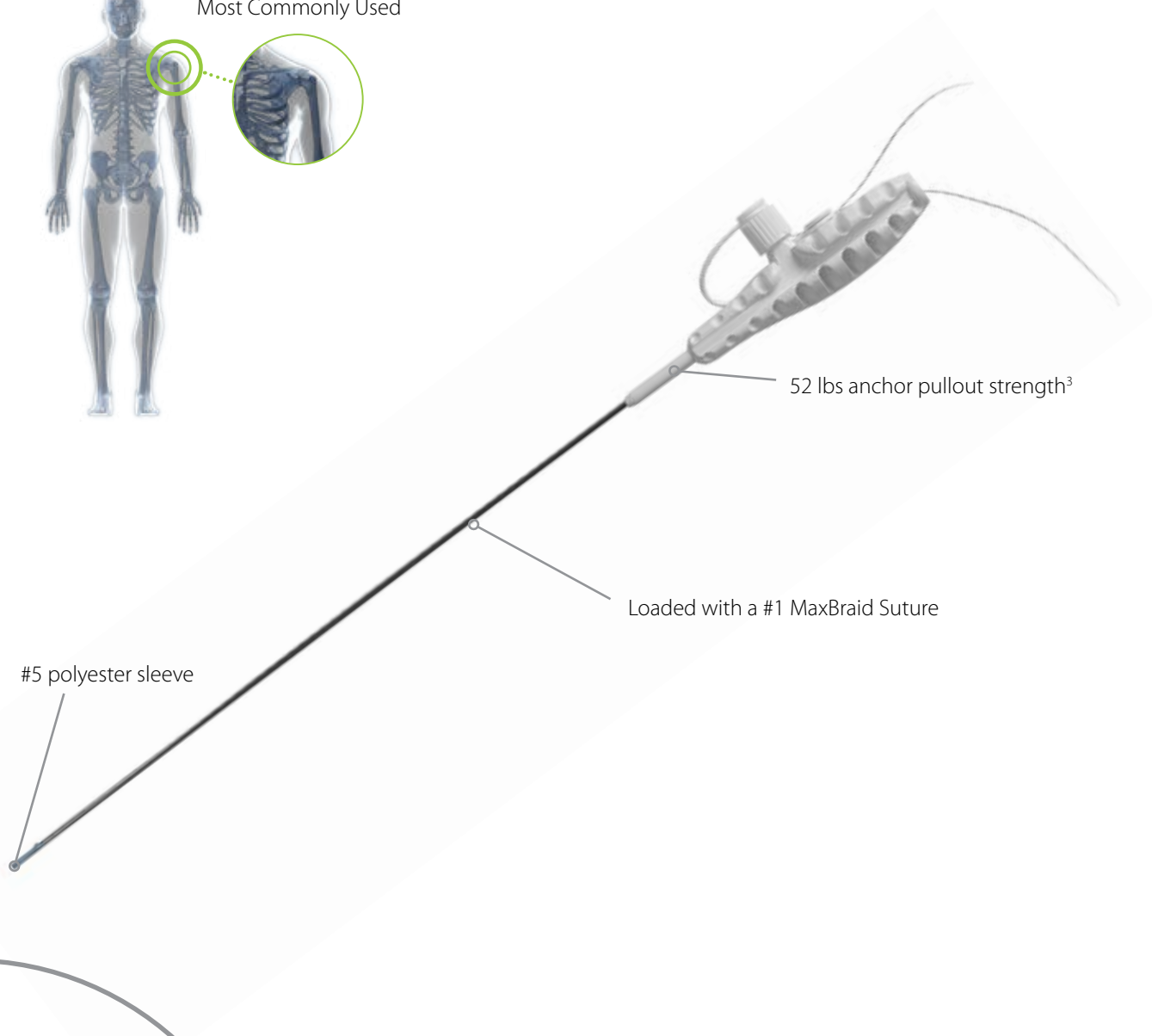
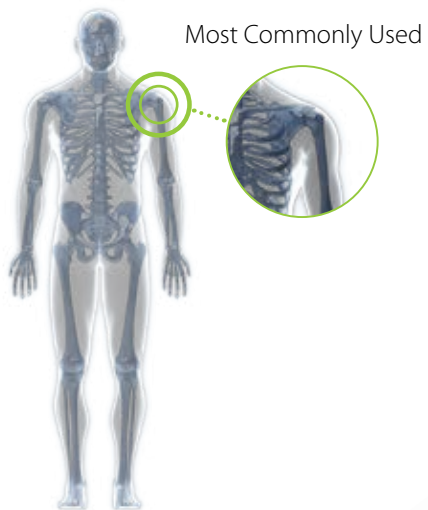
- Strength is equal or greater than some anchors two or three times larger<sup>2</sup>
- High pullout strength<sup>3,4</sup>

### 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

# JuggerKnot Soft Anchor 1.4 mm

JuggerKnot  
Soft Anchor Inserters

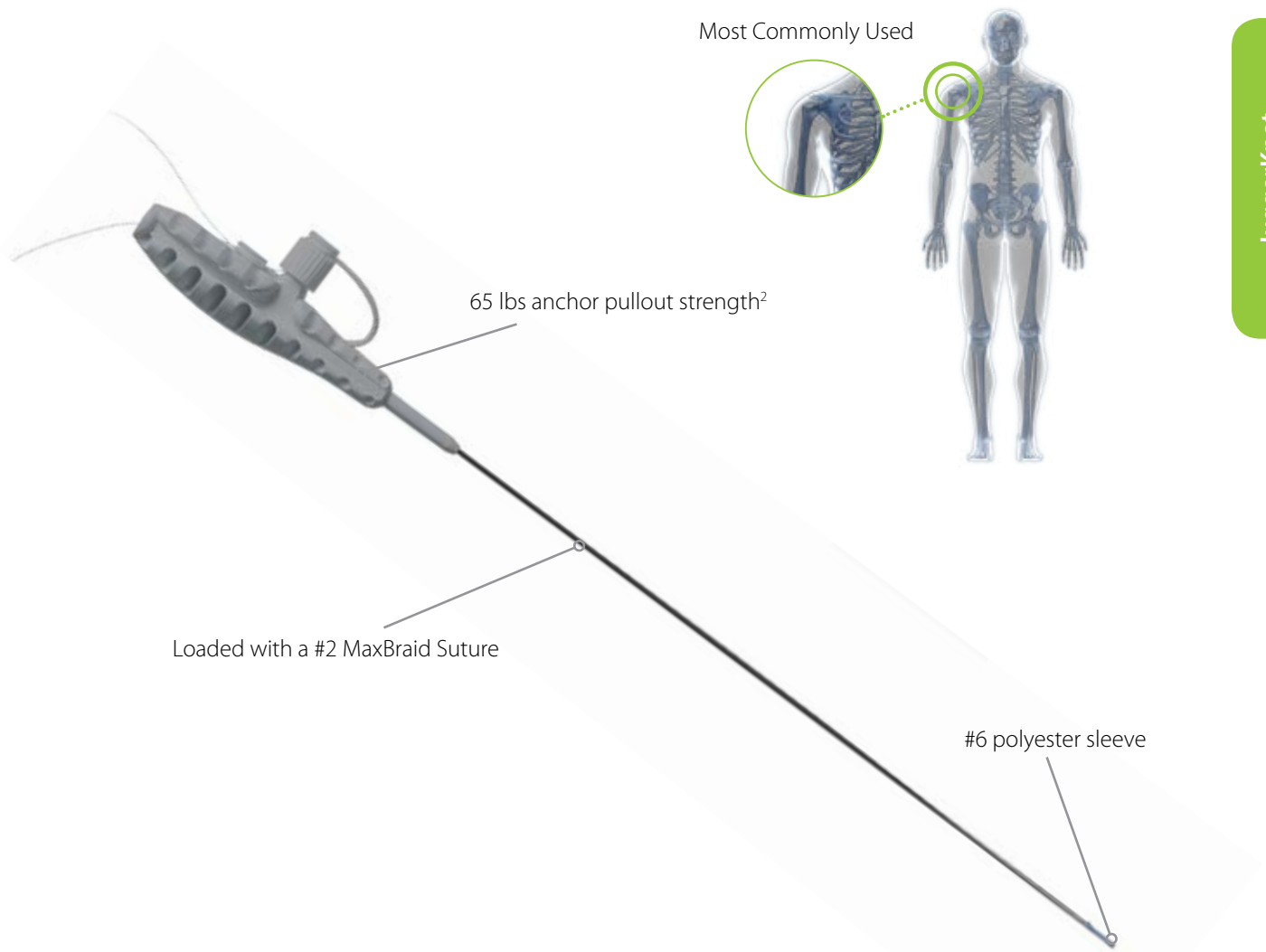


## Surgical Technique available for

- Labral Repair
- Curved Delivery for Bankart/SLAP Lesion Repair

Instrumentation and Ordering Information for JuggerKnot Soft Anchor 1.4 mm can be found on pages 14–15.

# JuggerKnot Soft Anchor 1.5 mm

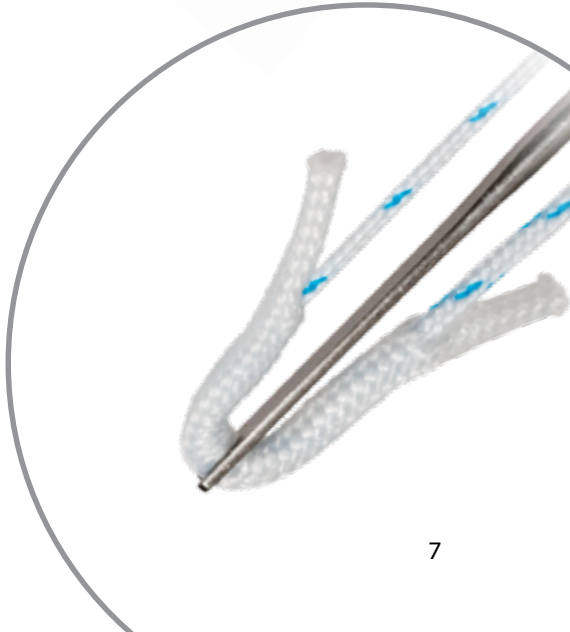


JuggerKnot  
Soft Anchor Inserters

## Surgical Technique available for

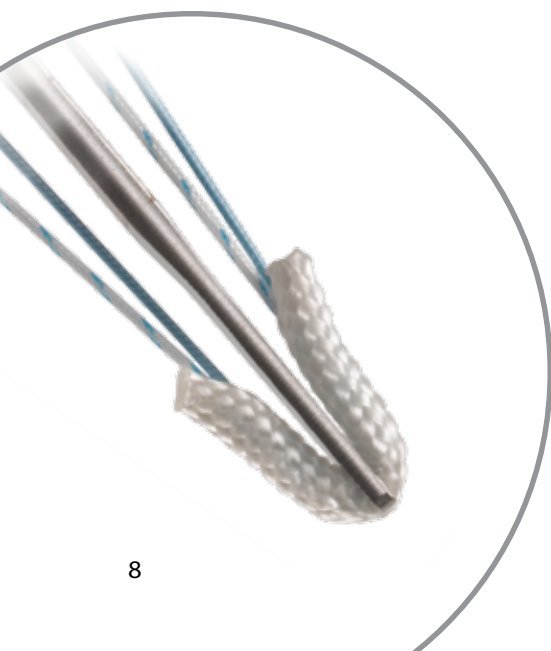
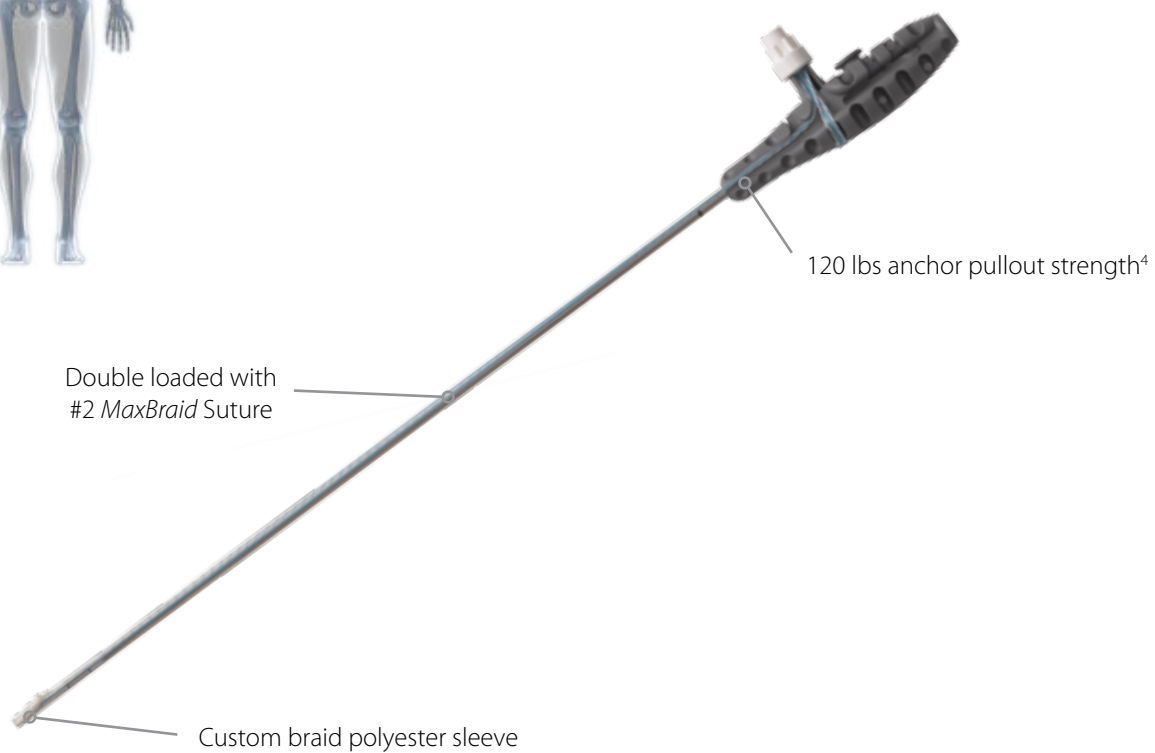
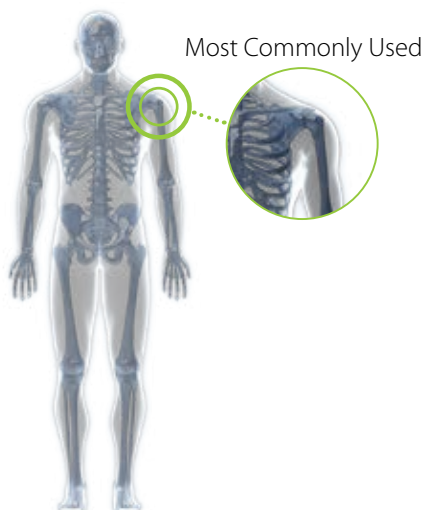
- Curved Delivery for Bankart/SLAP Lesion Repair

Instrumentation and Ordering Information for JuggerKnot Soft Anchor 1.5 mm can be found on pages 14–15.



# JuggerKnot Soft Anchor 2.9 mm

JuggerKnot  
Soft Anchor Inserters



## Surgical Technique available for

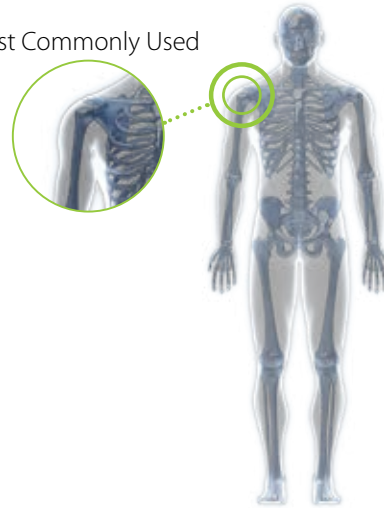
- Arthroscopic and Mini-Open Rotator Cuff Repair

Instrumentation and Ordering Information for JuggerKnot Soft Anchor 2.9 mm can be found on pages 16–17.

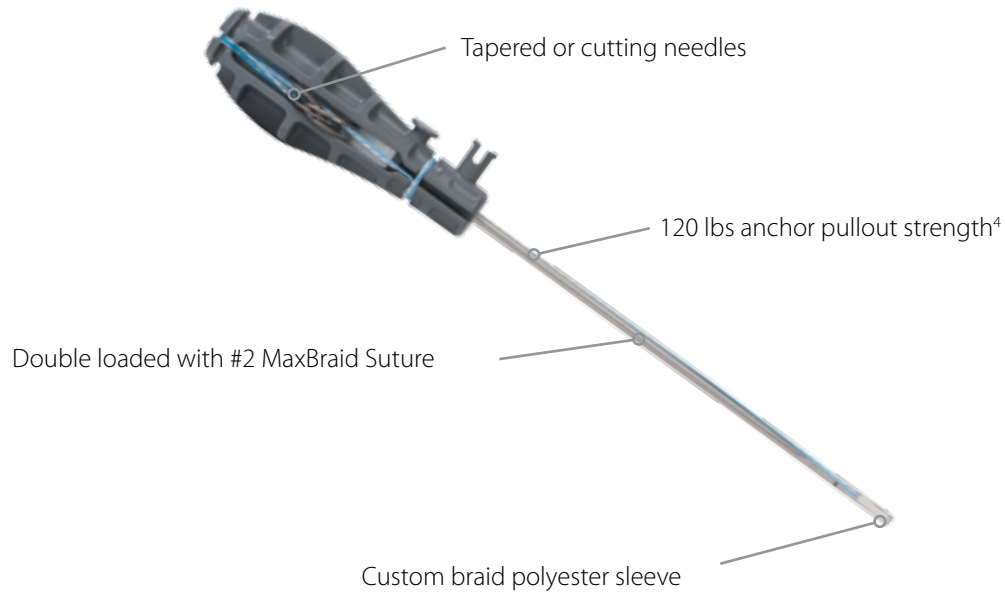


# JuggerKnot Soft Anchor 2.9 mm with Needles

Most Commonly Used



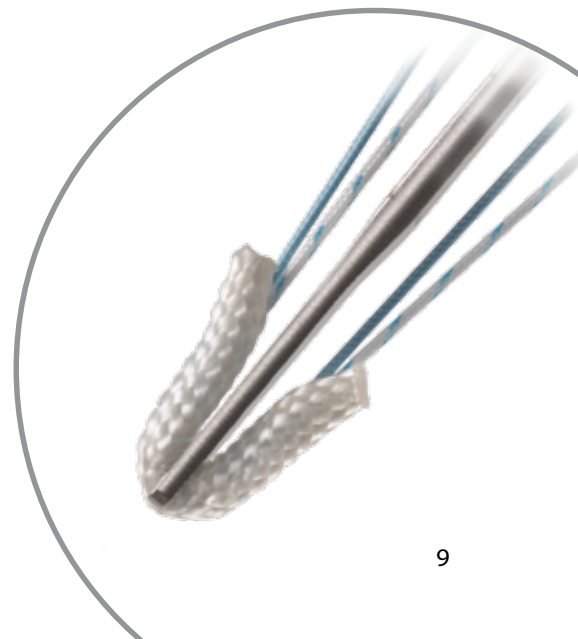
JuggerKnot  
Soft Anchor Inserters



## Surgical Technique available for

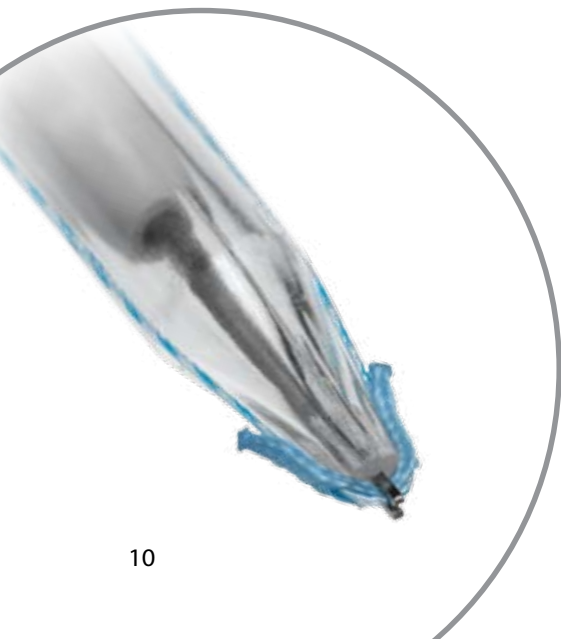
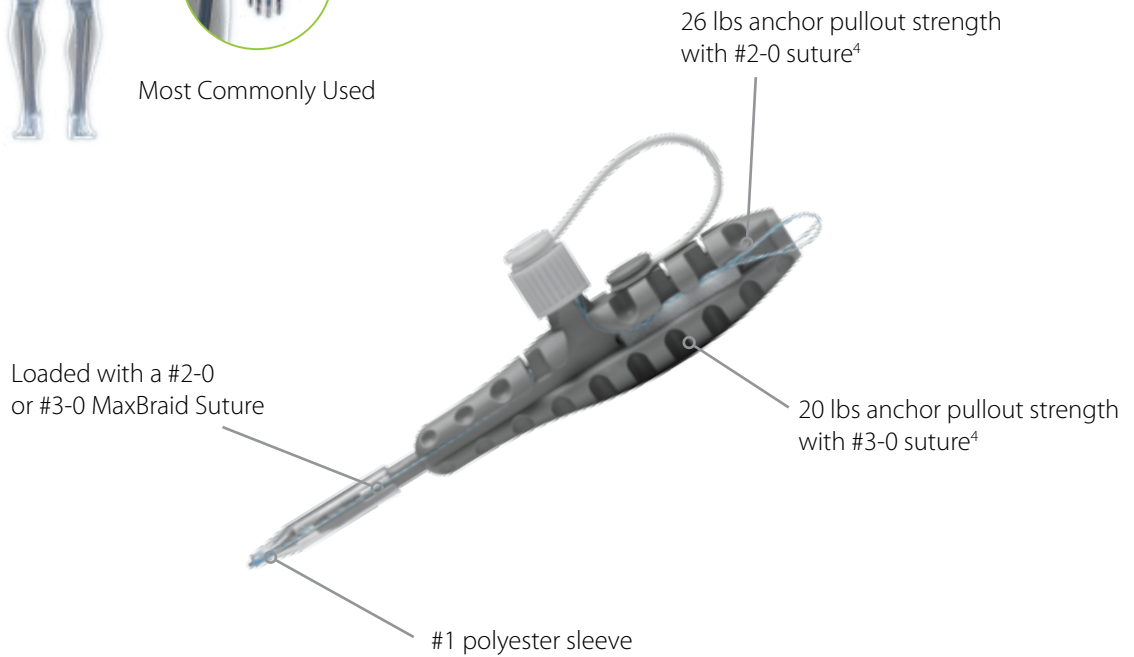
- Arthroscopic and Mini-Open Rotator Cuff Repair

Instrumentation and Ordering Information for JuggerKnot Soft Anchor 2.9 mm with Needles can be found on pages 16–17.



# JuggerKnot Soft Anchor 1.0 mm Mini

JuggerKnot  
Soft Anchor Inserters

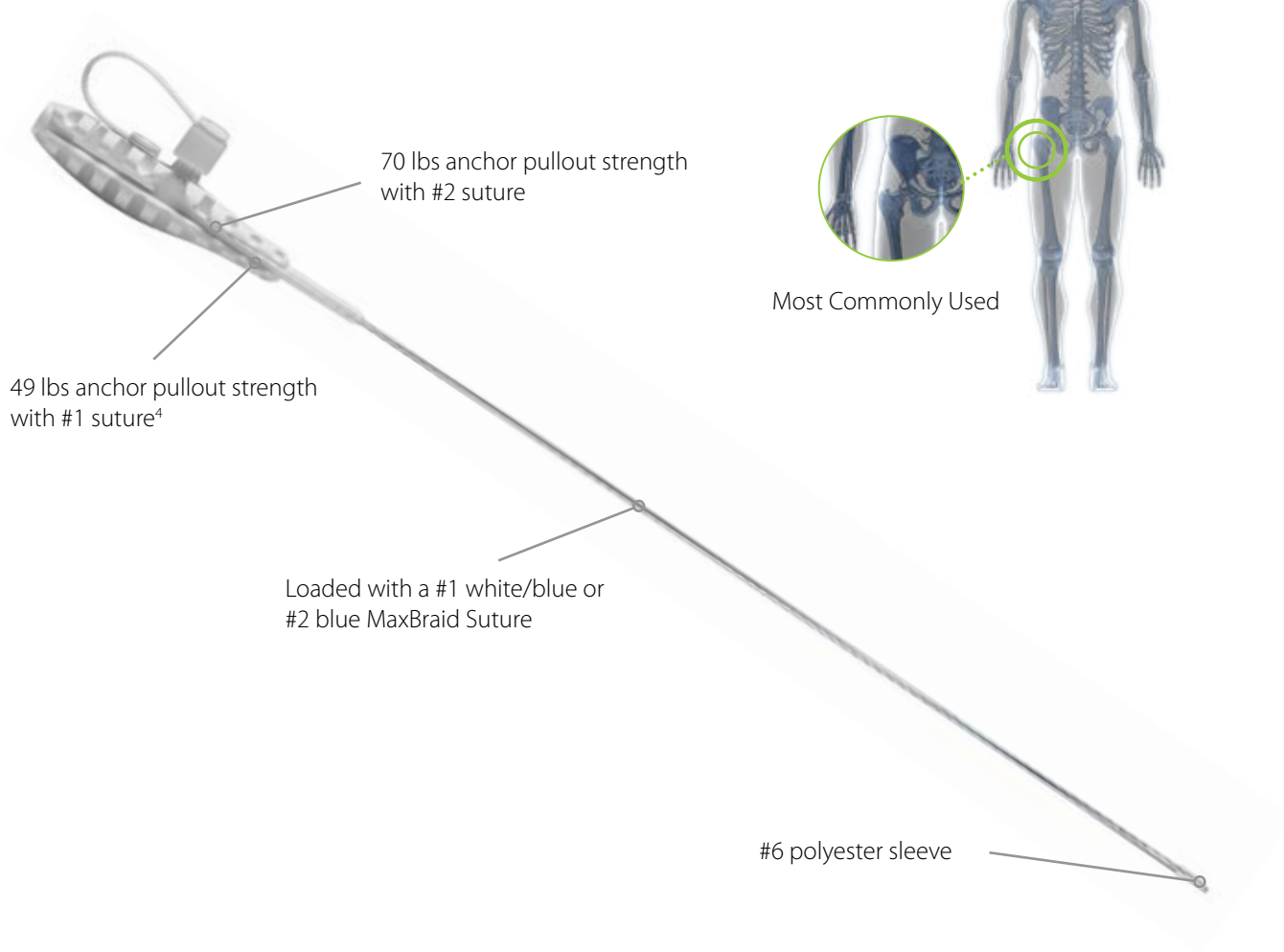


## Surgical Technique available for

- Scapholunate Ligament Repair
- Ulnar Collateral Ligament Repair

Instrumentation and Ordering Information for JuggerKnot Soft Anchor 1.0 mm Mini can be found on pages 18–19.

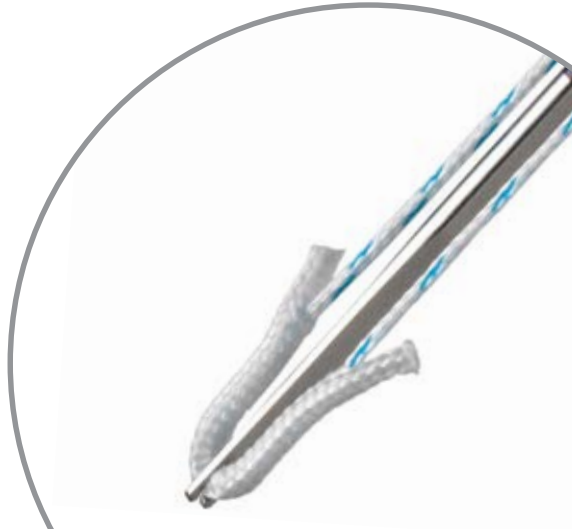
# JuggerKnot 1.45 mm Long Soft Anchor



JuggerKnot  
Soft Anchor Inserters

## Surgical Technique available for

- Hip Acetabular Labral Repair



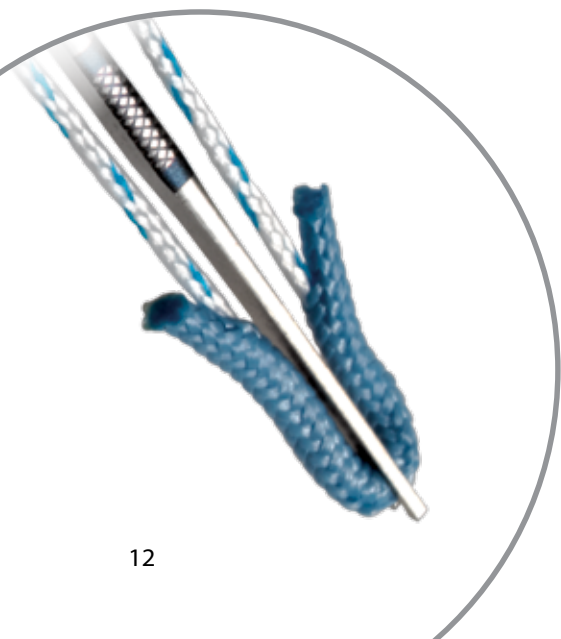
Instrumentation and Ordering Information for JuggerKnot 1.45 mm Long Soft Anchor can be found on pages 18–19.

# JuggerKnot Soft Anchor 1.4 mm Short

JuggerKnot  
Soft Anchor Inserters



Most Commonly Used



## Surgical Technique available for

- Lateral Epicondylitis Repair
- Midfoot Repair
- Lateral Ankle Repair
- Anchilles Tendon Repair

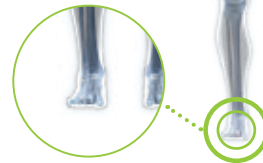
Instrumentation and Ordering Information  
for JuggerKnot Soft Anchor 1.4 mm  
Short can be found on pages 20–21.

# JuggerKnot Soft Anchor 1.45 mm Short Rigid

JuggerKnot  
Soft Anchor Inserters



Most Commonly Used



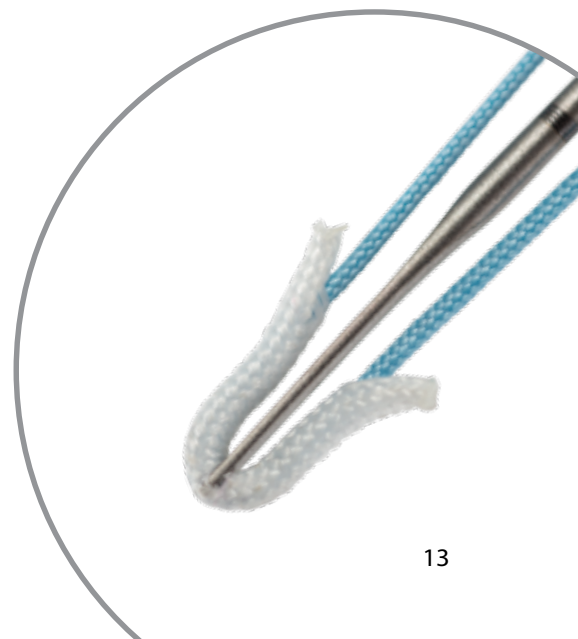
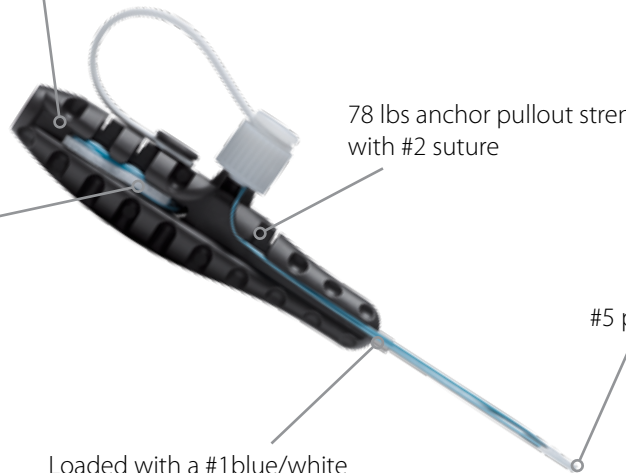
52 lbs anchor pullout strength  
with #1 suture

78 lbs anchor pullout strength  
with #2 suture

#5 tapered needles

#5 polyester sleeve

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

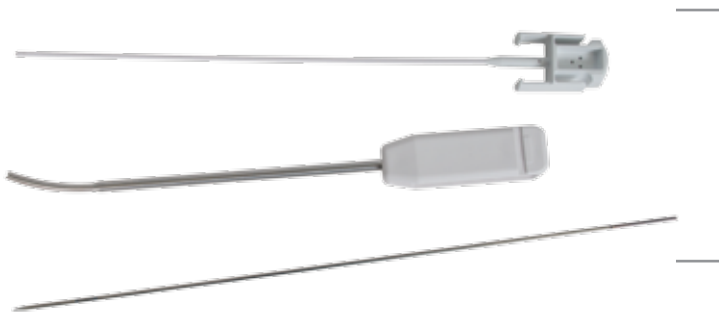


Instrumentation and Ordering Information  
for JuggerKnot Soft Anchor 1.45 mm Short  
Rigid can be found on page 20–21.

# JuggerKnot Soft Anchor Instrumentation

## 1.4 mm and 1.5 mm

JuggerKnot  
Soft Anchor  
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

Percutaneous Guide



Straight Guide



Centering Sleeve Guide

Centering Sleeve Insert



Centering Sleeve Drill Bit

### 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

## JuggerKnot Soft Anchor 1.4 mm

Part Number	Description
912000	JuggerKnot Soft Anchor- 1.4 mm 2 Implant Pk (Guide, Drill Bit)
912030	JuggerKnot Soft Anchor- 1.4 mm Single Loaded Implant
912010	JuggerKnot Soft Anchor- 1.4 mm 10Pk

Part Number	Description
912035	Reusable Guide
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 Flexile Drill Bit

Part Number	Description
912040	Disposable Kit (Guide, 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)

## JuggerKnot Soft Anchor 1.5 mm

Part Number	Description
912031	JuggerKnot Soft Anchor-1.5 mm - Single
912015	JuggerKnot Soft Anchor-1.5 mm - 10pk

Part Number	Description
912035	Straight Reusable Guide
912037R	Rigid Drill (Gold)
912035C	Curved Reusable Guide
912037	Flex Drill (Black)

Part Number	Description
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 Instrumentation

## 2.9 mm and 2.9 mm with Needles

### 2.9 mm/2.9 mm with Needles Instrumentation



2.9 mm and 2.9 with Needles In Guide Punch

### 2.9 mm Instrumentation



2.9 mm Disposable Guide



2.9 mm Reusable Guide



2.9 mm Disposable Kit



JuggerKnot  
Soft Anchor  
Instrumentation



# Ordering Information

## JuggerKnot Soft Anchor 2.9 mm

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-10pk

Part Number	Description
912090G	Reusable Drill Guide
912091	Sterile Disposable Drill Bit
912092G	Reusable Obturator
912093G	Reusable Trocar
912064	Reusable In-Guide Punch

Part Number	Description
912057	Disposable Instrument Kit (Guide, Obturator, Drill bit)

## JuggerKnot Soft Anchor 2.9 mm with Needles

Part Number	Description
110005093	JuggerKnot Soft Anchor- 2.9 mm with Needles w/ Cutting Needles
110005096	JuggerKnot Soft Anchor-2.9 mm with Needles w/ Tapered Needles
110005241	JuggerKnot Soft Anchor-2.9 mm with Needles w/ Cutting Needles 10pk
110005242	JuggerKnot Soft Anchor-2.9 mm with Needles w/ Tapered Needles 10pk

Part Number	Description
110005306	Drill Bit Short Shaft Sterile Pk
912059	Short Punch

# JuggerKnot Soft Anchor Instrumentation

## 1.0 mm Mini and 1.45 mm Long Anchor

JuggerKnot  
Soft Anchor  
Instrumentation

### 1.0 mm Mini Instrumentation



### 1.45 mm Long Anchor Instrumentation



# Ordering Information

## JuggerKnot Soft Anchor 1.0 mm with 2-0 Needles

Part Number	Description
912076	JuggerKnot Soft Anchor-1.0 mm w/ 2-0 Needles w/ Drill
912080	JuggerKnot Soft Anchor-1.0 mm w/ 2-0 Needles 10pk

Part Number	Description
912077	2-0 Mini Step Drill

Part Number	Description
912082	JuggerKnot Soft Anchor-1.0 mm w/ 3-0 Needles w/ Drill
912084	JuggerKnot Soft Anchor-1.0 mm w/ 3-0 Needles 10pk

Part Number	Description
912077	3-0 Mini Step Drill

## JuggerKnot 1.45 mm Long Soft Anchor

Part Number	Description
916030	JuggerKnot Long Soft Anchor #1 Single Loaded
010000334	JuggerKnot Long Soft Anchor #1 10pk
010000324	JuggerKnot Long Soft Anchor #2 Single Loaded
010000335	JuggerKnot Long Soft Anchor #2 10pk

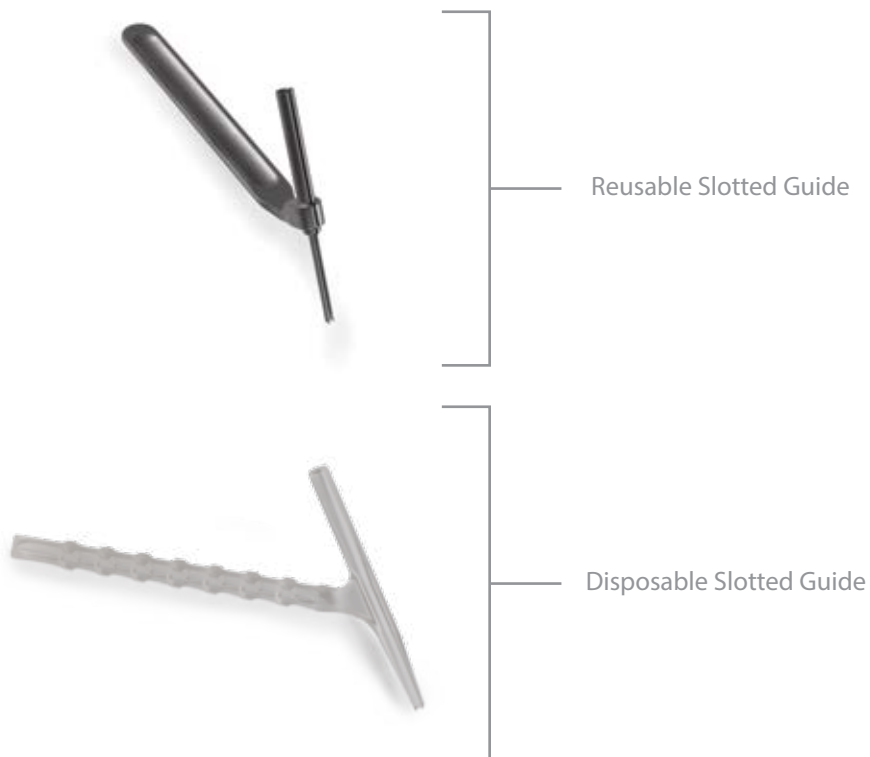
Part Number	Description
916035	Straight Four Prong Guide
916036	Flex Drill
916037	Rigid Drill

# JuggerKnot Soft Anchor Instrumentation

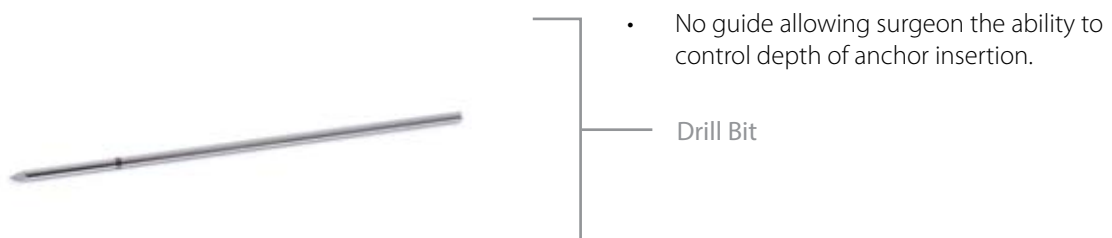
## 1.4 mm Short and 1.45 mm Short Rigid

JuggerKnot  
Soft Anchor  
Instrumentation

### 1.4 mm Short Instrumentation



### 1.45 mm Short Rigid Instrumentation



# Ordering Information

## JuggerKnot Soft Anchor 1.4 mm Short

Part Number	Description
912068	JuggerKnot 1.4 mm Short #1 Single Loaded
912069	JuggerKnot 1.4 mm Short #1 10 pk

Part Number	Description
912071	Sterile Disposable Drill Bit
912072	Reusable guide

Part Number	Description
912073	Disposable Kit with Guide, Drill Bit
912075	Disposable Kit with Implant and Guide

## JuggerKnot Soft Anchor 1.45 mm Short Rigid

Part Number	Description
110005307	JuggerKnot Rigid #1 Implant with Drill Bit
110005315	JuggerKnot Rigid #2 Implant with Drill Bit
110005319	JuggerKnot Rigid #1 Implant 10 pk
110005320	JuggerKnot Rigid #2 Implant 10 pk

Part Number	Description
110005323	JuggerKnot Rigid 1.45 mm Drill 5 pk

## 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.
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.
4. Data on file at Biomet Sports Medicine. Test Reports, AT47B, AT47D, BSM4, 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 *JuggerKnotless* Soft Anchor. BMET0769.0



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**Responsible Manufacturer**

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