



JuggerKnot and JuggerKnotless Soft Anchor

All-Inclusive Brochure



BIOMET

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 Anchors¹

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 Biomet, patients with shoulder labrum tears or rotator cuff damage from sports or age-related injuries can now expect better quality restoration."¹

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 and JuggerKnotless Soft Anchor

Multiple Indications:

JuggerKnot Soft Anchor

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

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

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

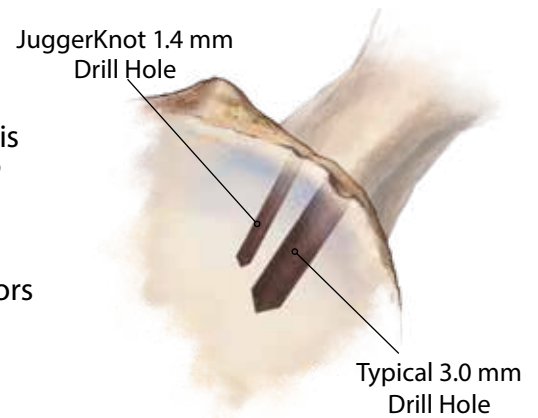
Contraindications

- 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.

All-Suture Technology

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 holes⁹
- 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 larger²
- High pullout strength^{3,4}

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 strength⁵

JuggerKnotless Soft Anchor

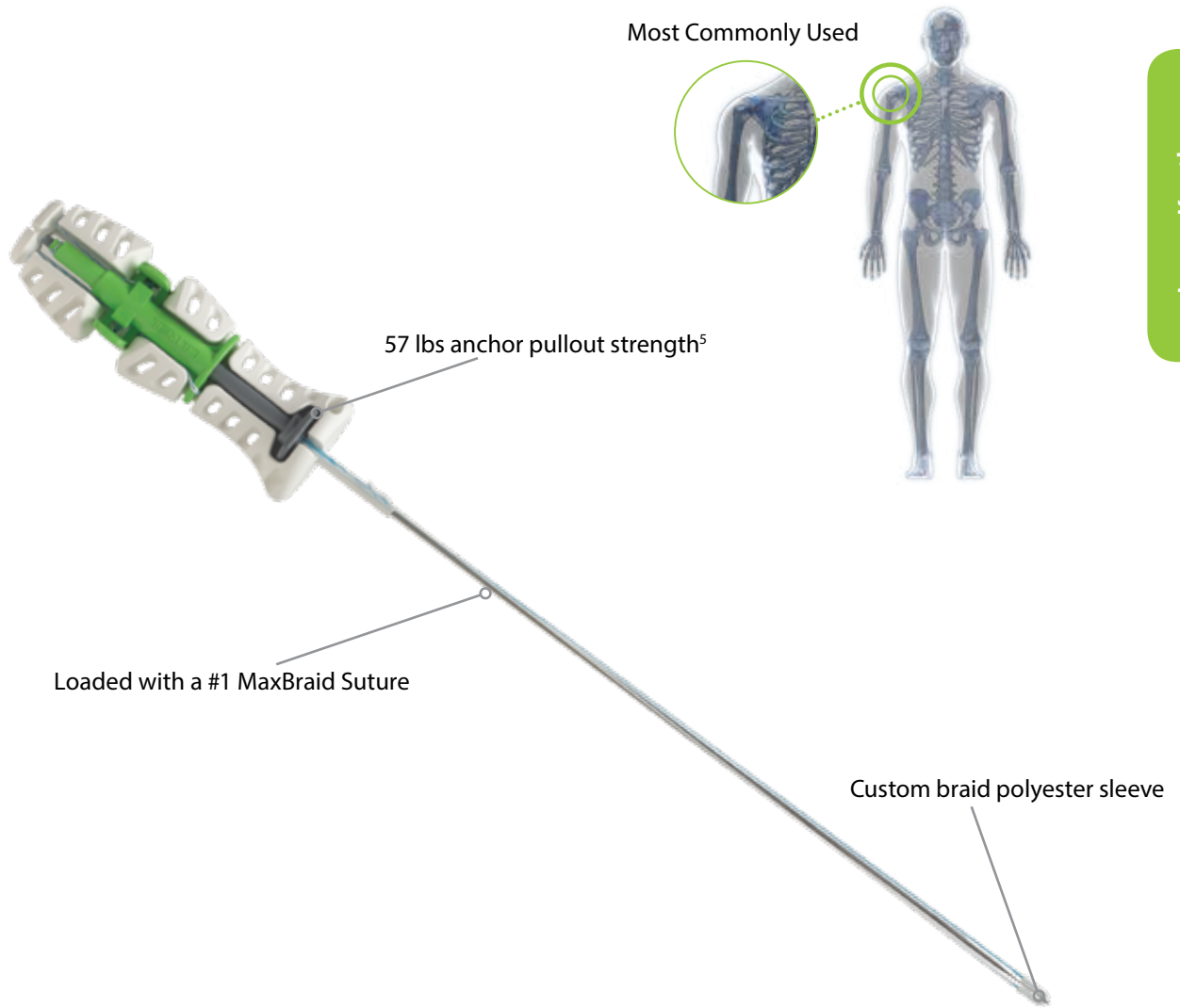
First All-Suture Knotless Anchor

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 Inserter

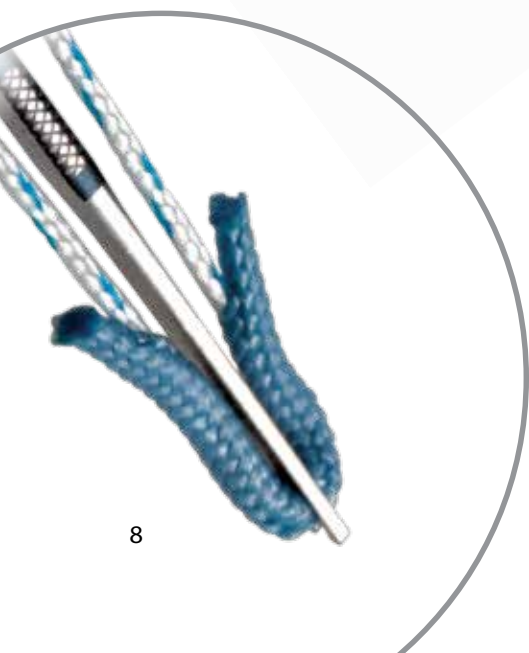
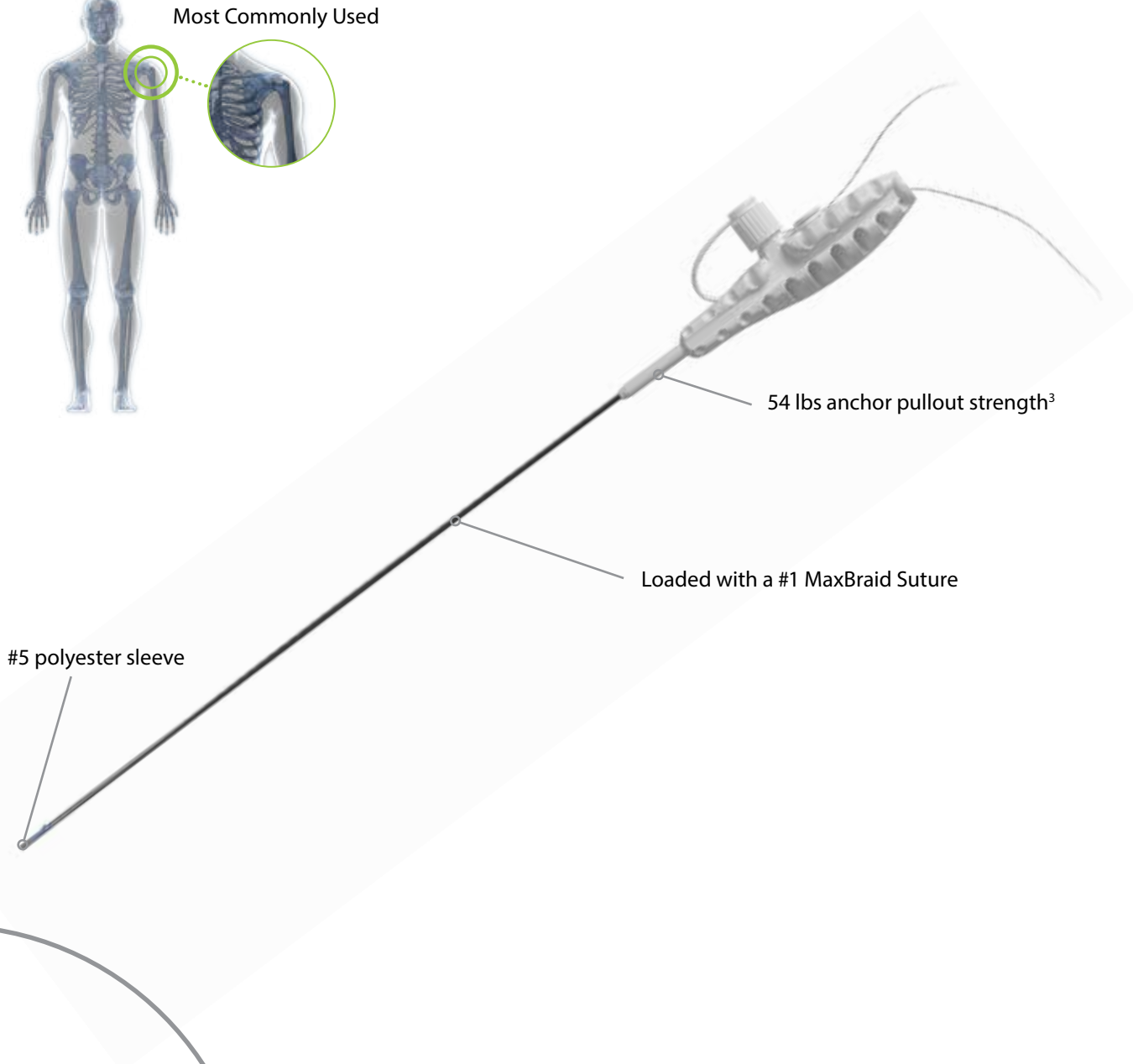
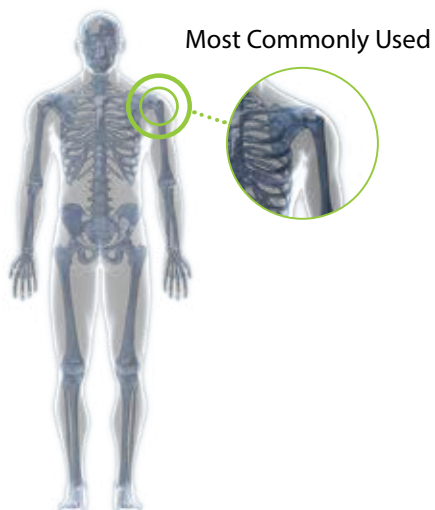
Surgical Technique available for

- 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

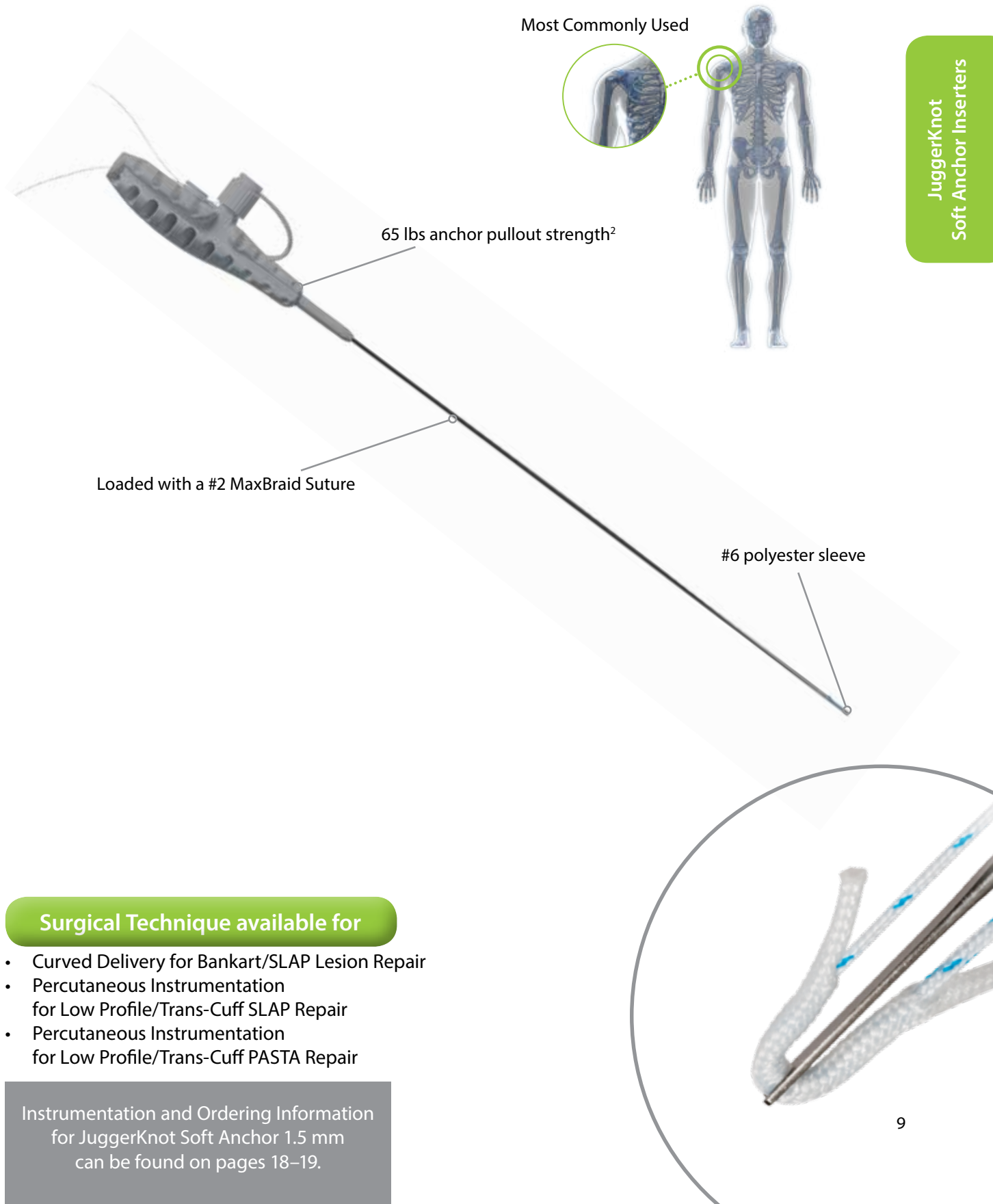


Surgical Technique available for

- 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

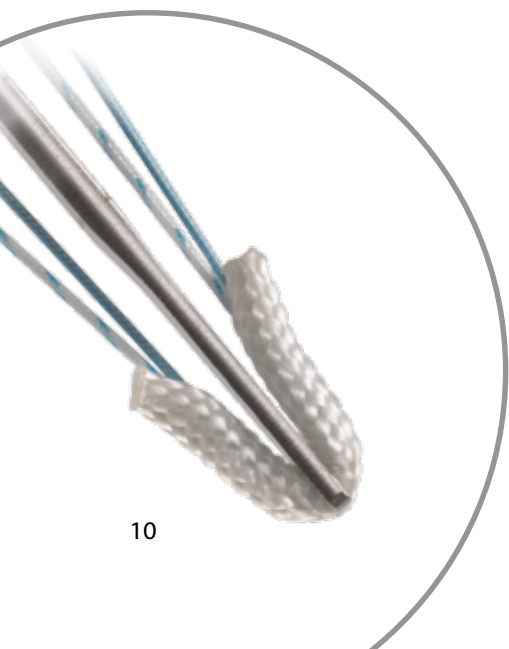
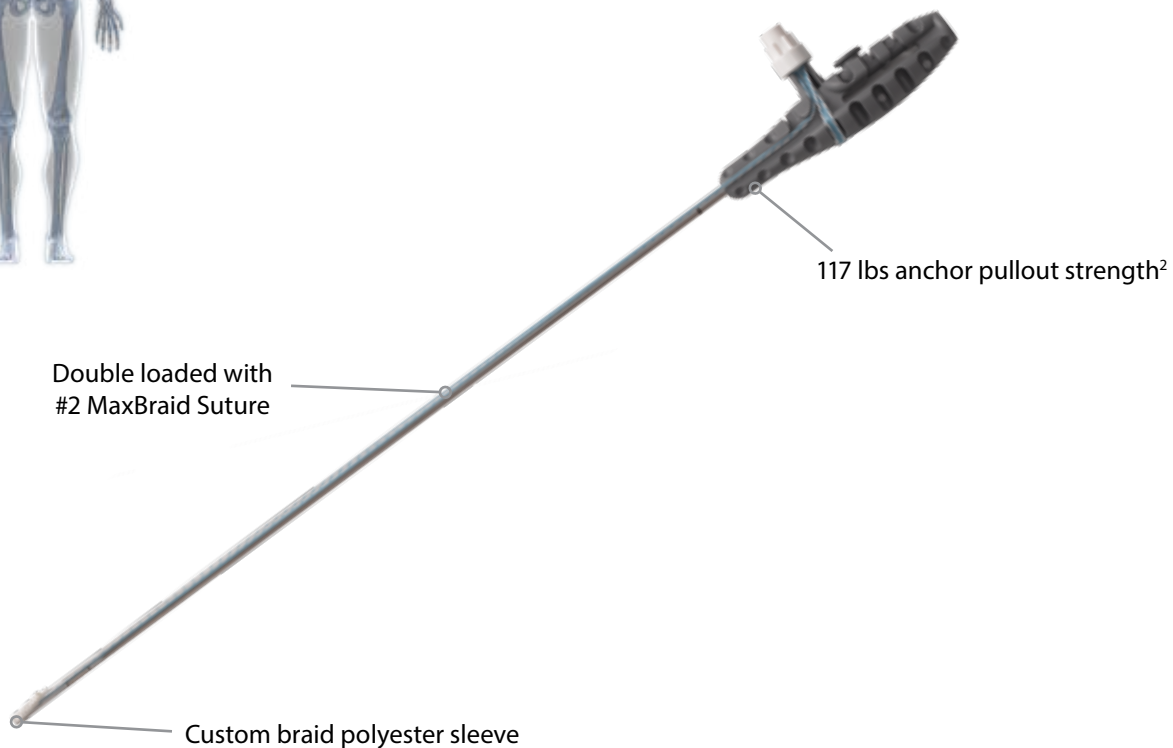
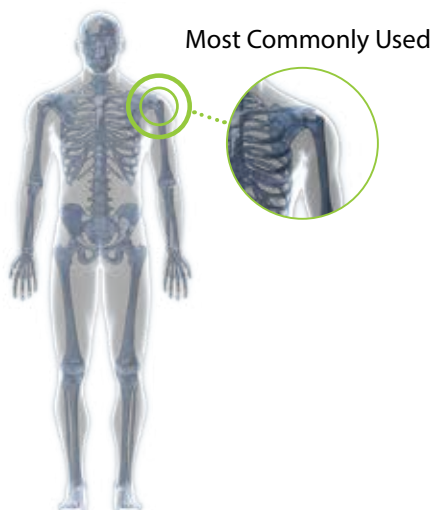
Surgical Technique available for

- 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



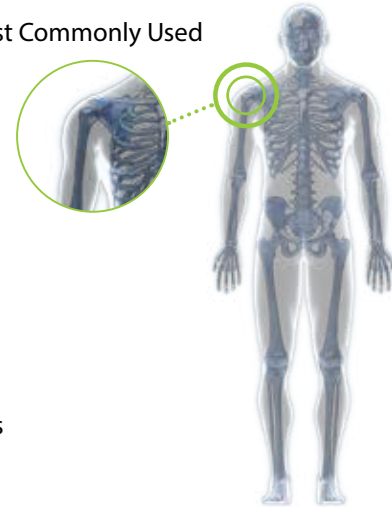
Surgical Technique available for

- Arthroscopic and Mini-Open Rotator Cuff Repair

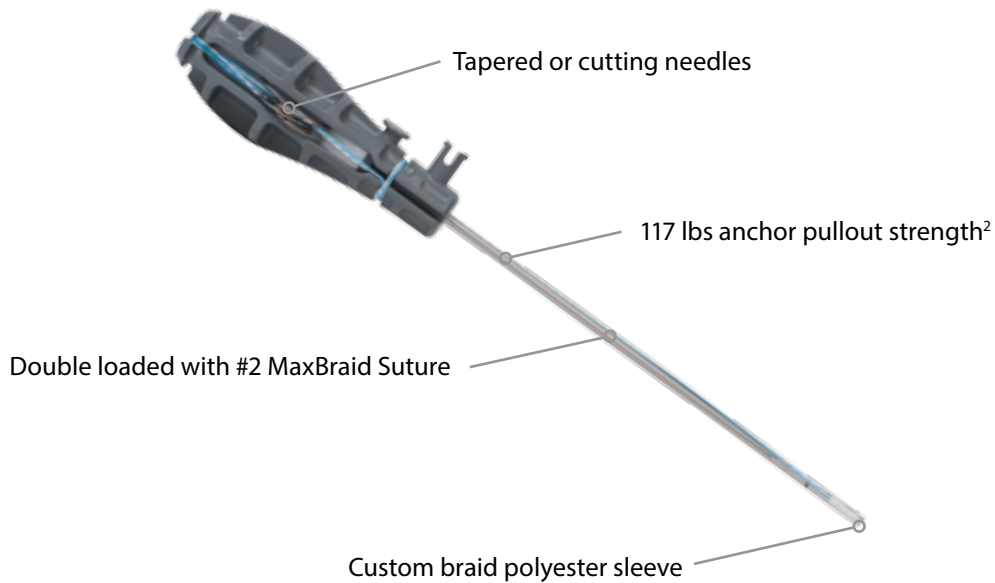
Instrumentation and Ordering Information for JuggerKnot Soft Anchor 2.9 mm can be found on pages 20–21.

JuggerKnot Soft Anchor 2.9 mm with Needles

Most Commonly Used



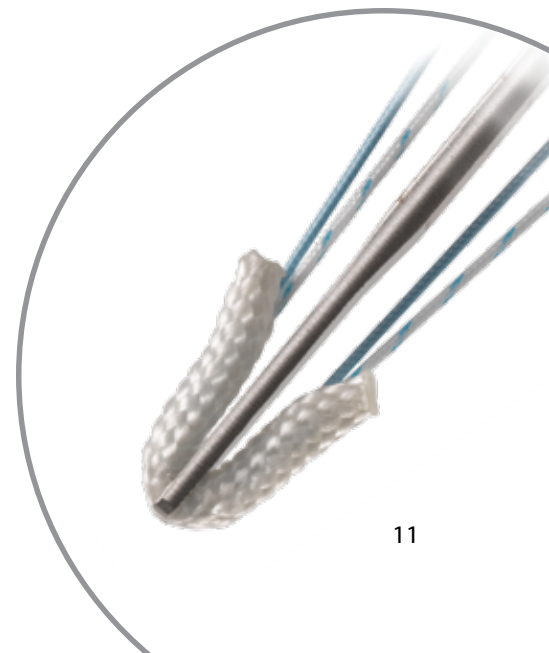
JuggerKnot
Soft Anchor Inserters



Surgical Technique available for

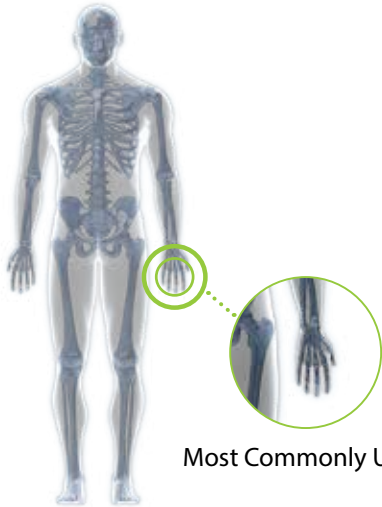
- Arthroscopic and Mini-Open Rotator Cuff Repair

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



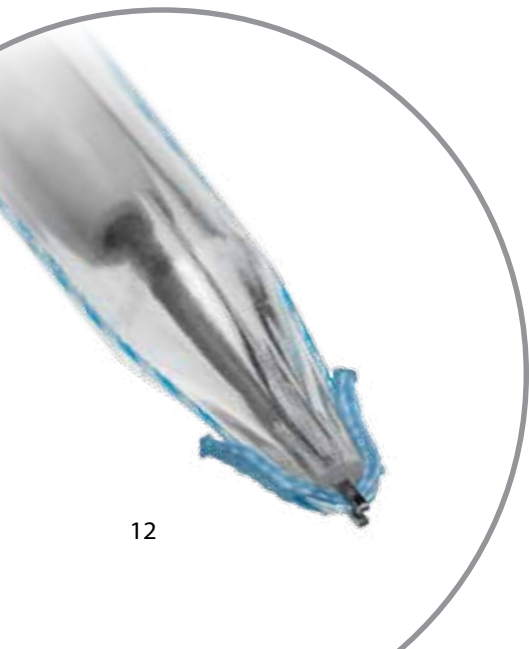
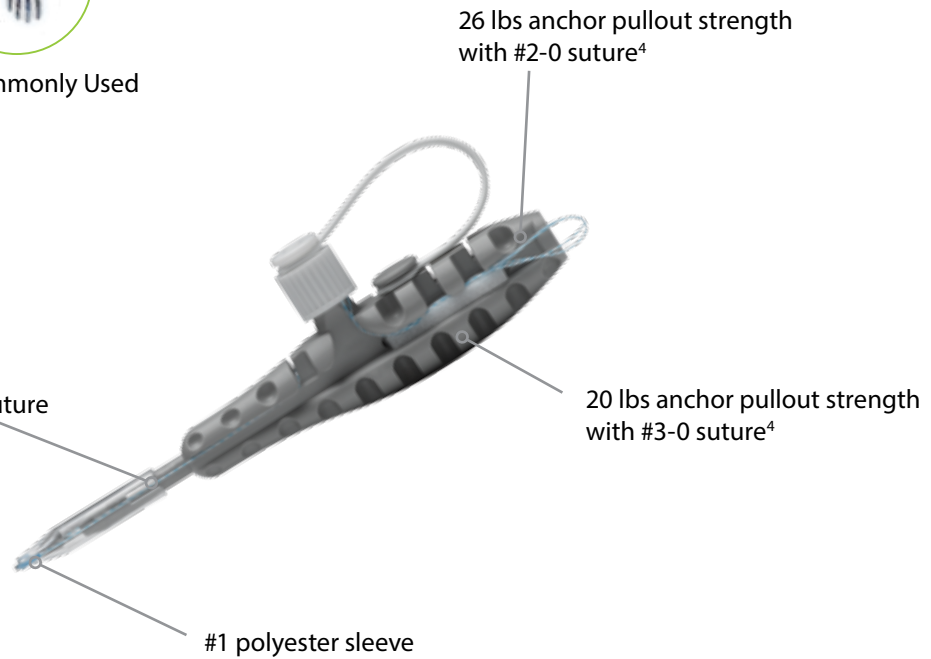
JuggerKnot Soft Anchor 1.0 mm Mini

JuggerKnot
Soft Anchor Inserters



Most Commonly Used

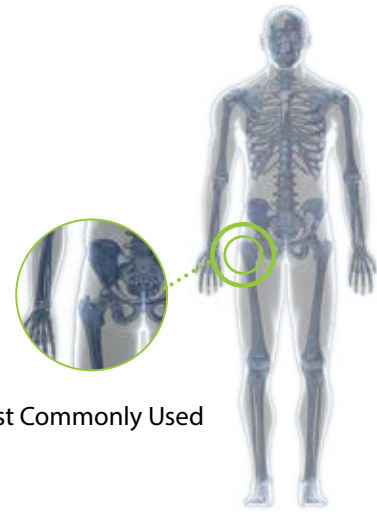
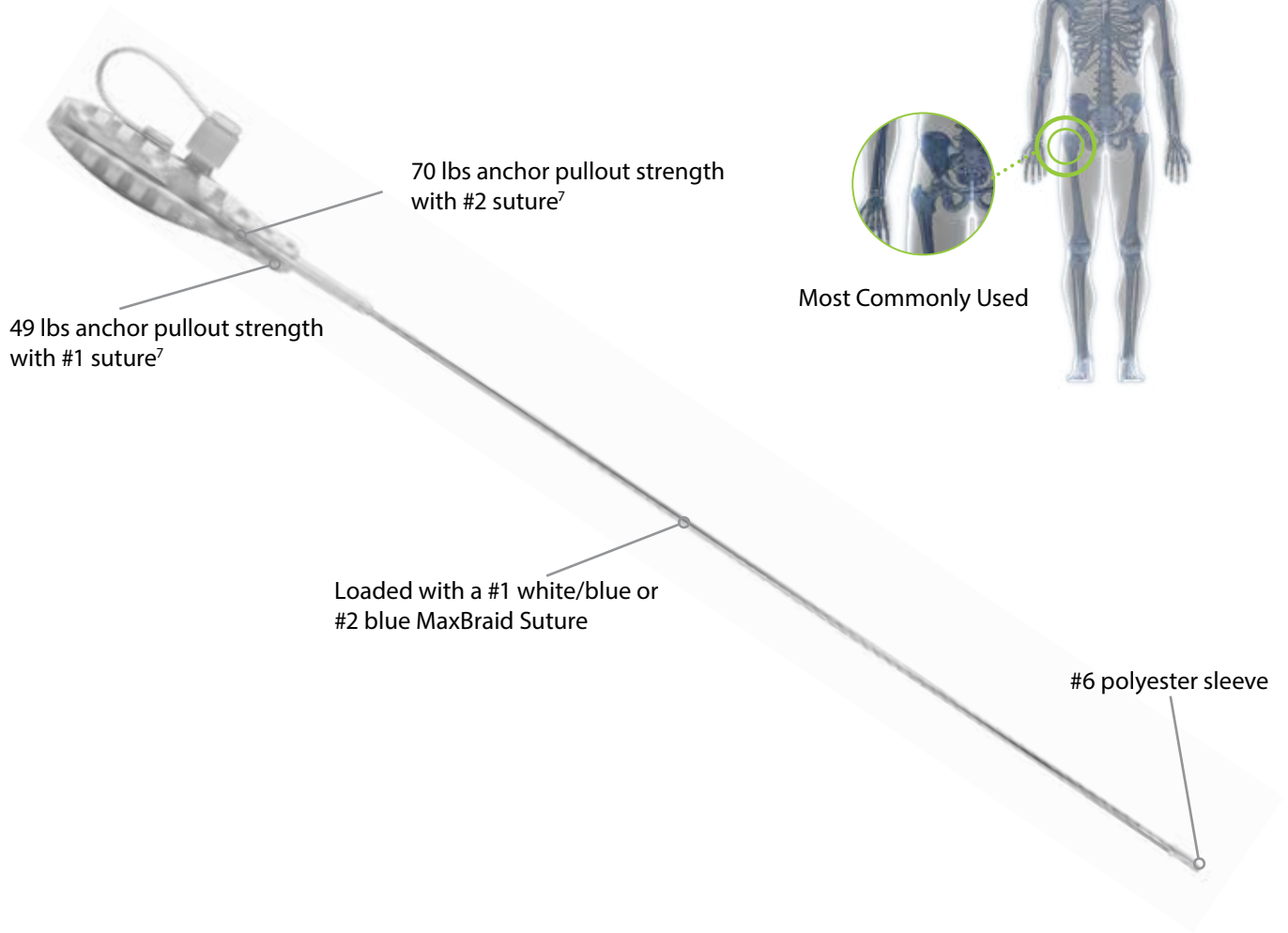
Loaded with a #2-0
or #3-0 MaxBraid Suture



Surgical Technique available for

- Scapholunate Ligament Repair
- Ulnar Collateral Ligament Repair

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



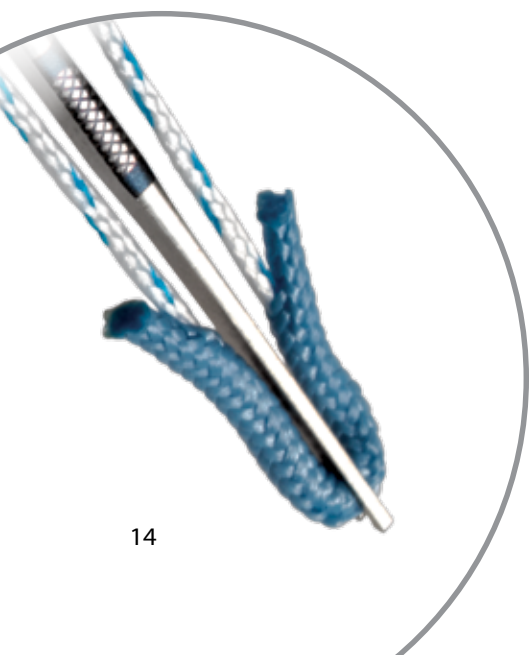
Most Commonly Used

54 lbs anchor pullout strength³

#5 tapered needles

Loaded with a #1
MaxBraid Suture

#5 polyester sleeve



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



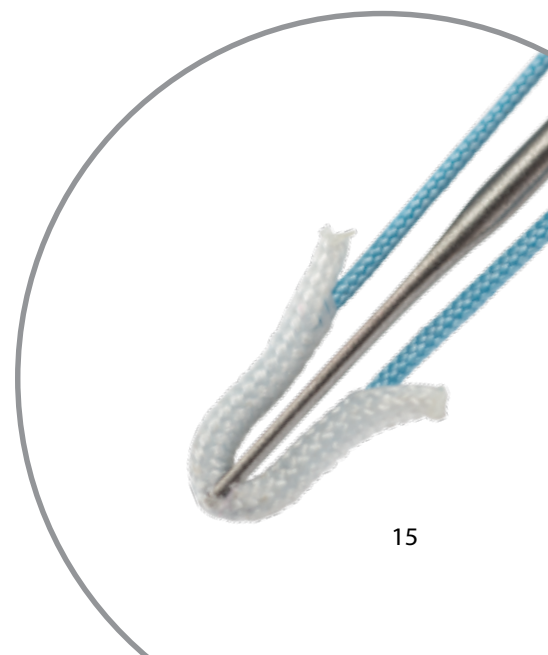
52 lbs anchor pullout strength
with #1 suture⁸

78 lbs anchor pullout strength
with #2 suture⁸

#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 Instrumentation

2.1 mm

JuggerKnotless
Soft Anchor
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

JuggerKnotless Soft Anchor 2.1 mm

Part Number	Description
110005198	JuggerKnotless SS Implant
110005199	JuggerKnotless SS Implant 10pk

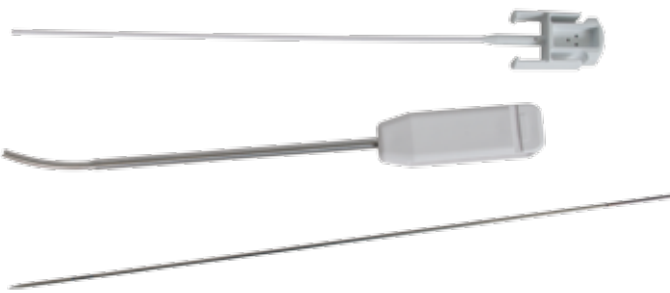
Part Number	Description
110003182	JuggerKnotless Disposable Low Profile Drill Bit (Sterile)
110003172	JuggerKnotless Disposable Kit

Part Number	Description
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 Instrumentation

1.4 mm and 1.5 mm

JuggerKnot
Soft Anchor
Instrumentation

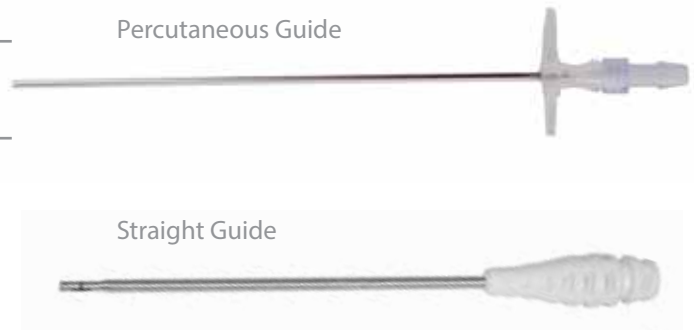


1.4/1.5 mm Curved Instrumentation

- 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



Centering Sleeve Guide

Centering Sleeve Insert

1.4/1.5 mm Centering Sleeve Instrumentation

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

Centering Sleeve Drill Bit

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 Flexible Drill Bit

Part Number	Description
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)

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 with Needles Reusable Short Guide

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
110016951	Reusable Short Guide

JuggerKnot Soft Anchor Instrumentation

1.0 mm Mini and 1.45 mm Long Anchor

JuggerKnot
Soft 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

Ordering Information

JuggerKnot Soft Anchor 1.0 mm Mini with 2-0 & 3-0 Needles

Part Number	Description
912076	JuggerKnot Soft Anchor-1.0 mm Mini w/ 2-0 Needles w/ Drill
912080	JuggerKnot Soft Anchor-1.0 mm Mini 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
01000334	JuggerKnot Long Soft Anchor #1 10pk
01000324	JuggerKnot Long Soft Anchor #2 Single Loaded
01000335	JuggerKnot Long Soft Anchor #2 10pk

Part Number	Description
11002759	Reusable Fishmouth Guide

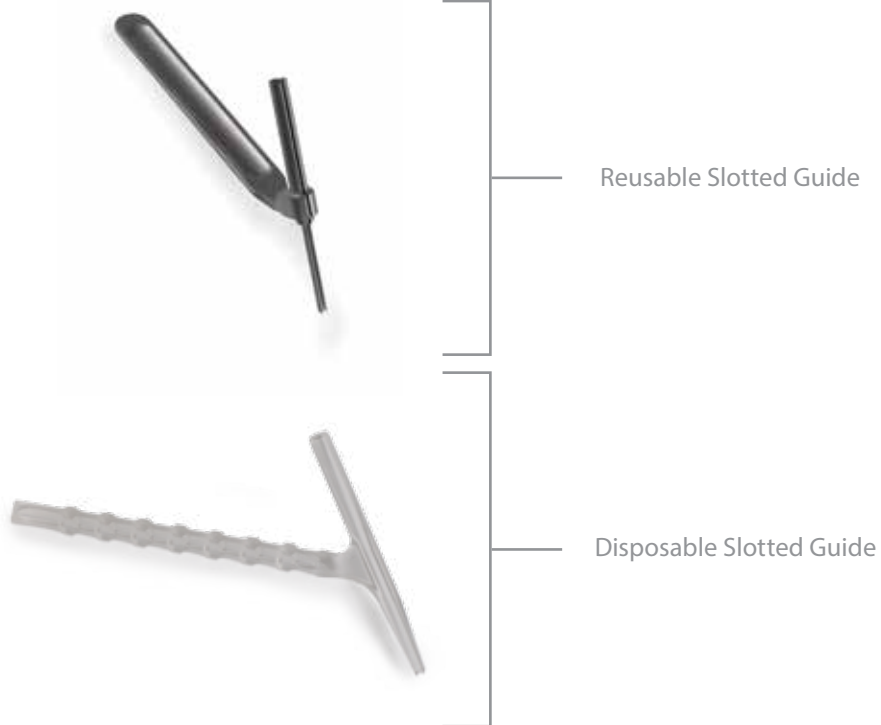
Part Number	Description
916020	Disposable Curved Set (Guide, Centering Sleeve, and Flexible Drill Bit)
916034	Reusable Curved Guide
916035	Reusable Straight Four-Prong Guide
916036	Disposable Flex Drill
916037	Disposable Rigid Drill
916038	Reusable Flex Trocar
916039	Reusable Flex Obturator
916040	Disposable Straight Guide Kit (Guide and Rigid Drill)
110016992	Disposable Flex Drill with Centering Sleeve

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. 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 Juggerknotless 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.

This material is intended for health care professionals and the Biomet sales force only. Distribution to any other recipient is prohibited. All content herein is protected by copyright, trademarks and other intellectual property rights owned by or licensed to Biomet Inc. or its affiliates unless otherwise indicated. This material must not be redistributed, duplicated or disclosed, in whole or in part, without the express written consent of Biomet.

Check for country product clearances and reference product specific instructions for use. For complete product information, including indications, contraindications, warnings, precautions, and potential adverse effects, see the package insert and Biomet's website.

Not for distribution in France.



One Surgeon. One Patient.

©2015 Biomet Sports Medicine • Form No. BMET0959.1-GBL • REV0615

Biomet Sports Medicine
56 East Bell Drive
P.O. Box 587
Warsaw, Indiana 46581
USA

www.biomet.com