

+ All tears, all repairs

Meniscal Repair Solutions

Smith+Nephew



Accelerating the standard of care toward meniscal repair

Arthroscopy can provide easier access to the knee and potentially avoid the risks of open surgical procedures.¹

A number of studies have been published that clearly define the benefits of meniscal repair to help restore as much functional meniscus as possible and to potentially minimize the risk of degenerative disease such as osteoarthritis.¹⁻³

Removal of meniscal tissue, referred to as meniscectomy, has been shown to increase intraarticular pressure and to result in degeneration of the articular cartilage over the long term.^{3,4} In recent years, arthroscopic repair techniques have become more prevalent and widely accepted for the treatment of meniscal tears.¹

The All Tears, All Repairs Meniscal Repair portfolio from Smith+Nephew provides surgeons with unsurpassed options and possibilities for meniscal repair.

For more information, visit AllTearsAllRepairs.com



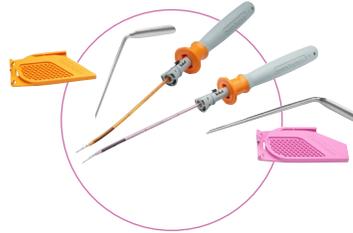


+ All tears, all repairs

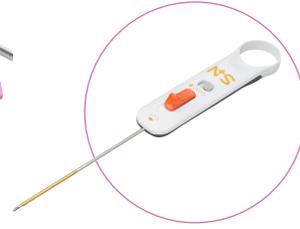
Meniscal Repair Solutions



NOVOSTITCH[◇] PRO
Meniscal Repair System



FAST-FIX[◇] FLEX
Meniscal Repair System



NOVOCUT[◇]
Suture Manager



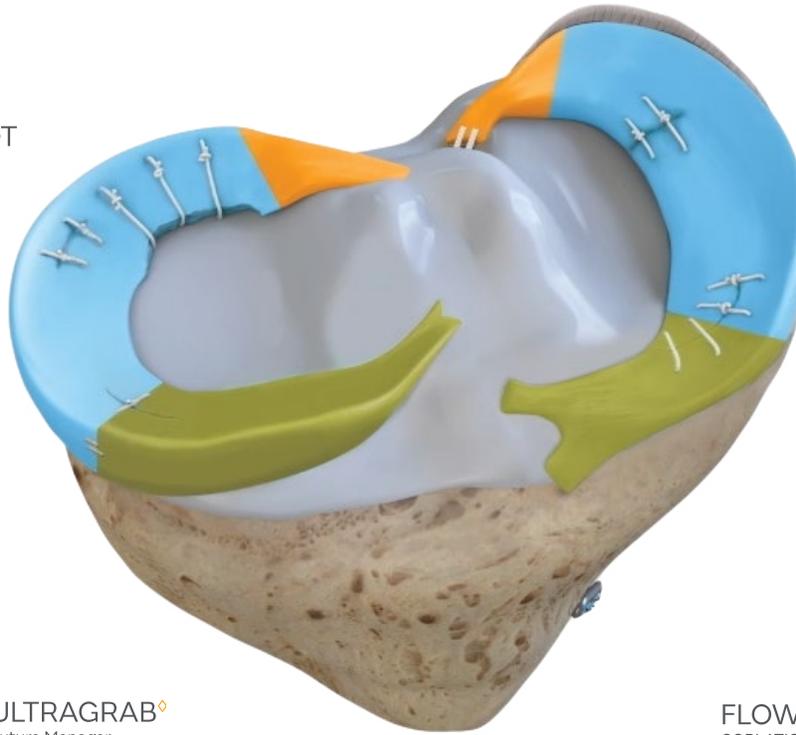
MENISCAL ROOT
Repair System



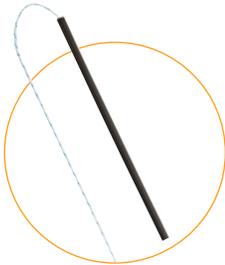
MENISCAL STITCHER
Repair System



FIRSTPASS[◇] MINI
Family of Suture Passers



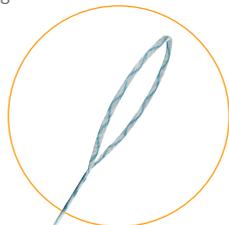
DYONICS[◇]
PLATINUM FLYER[◇]
Shaver Blade



ULTRAGRAB[◇]
Suture Manager



FLOW 50[◇]
COBLATION[®] Wand



ULTRALOOP[◇]
Suture Loop



MENISCUS MENDER II
Repair System



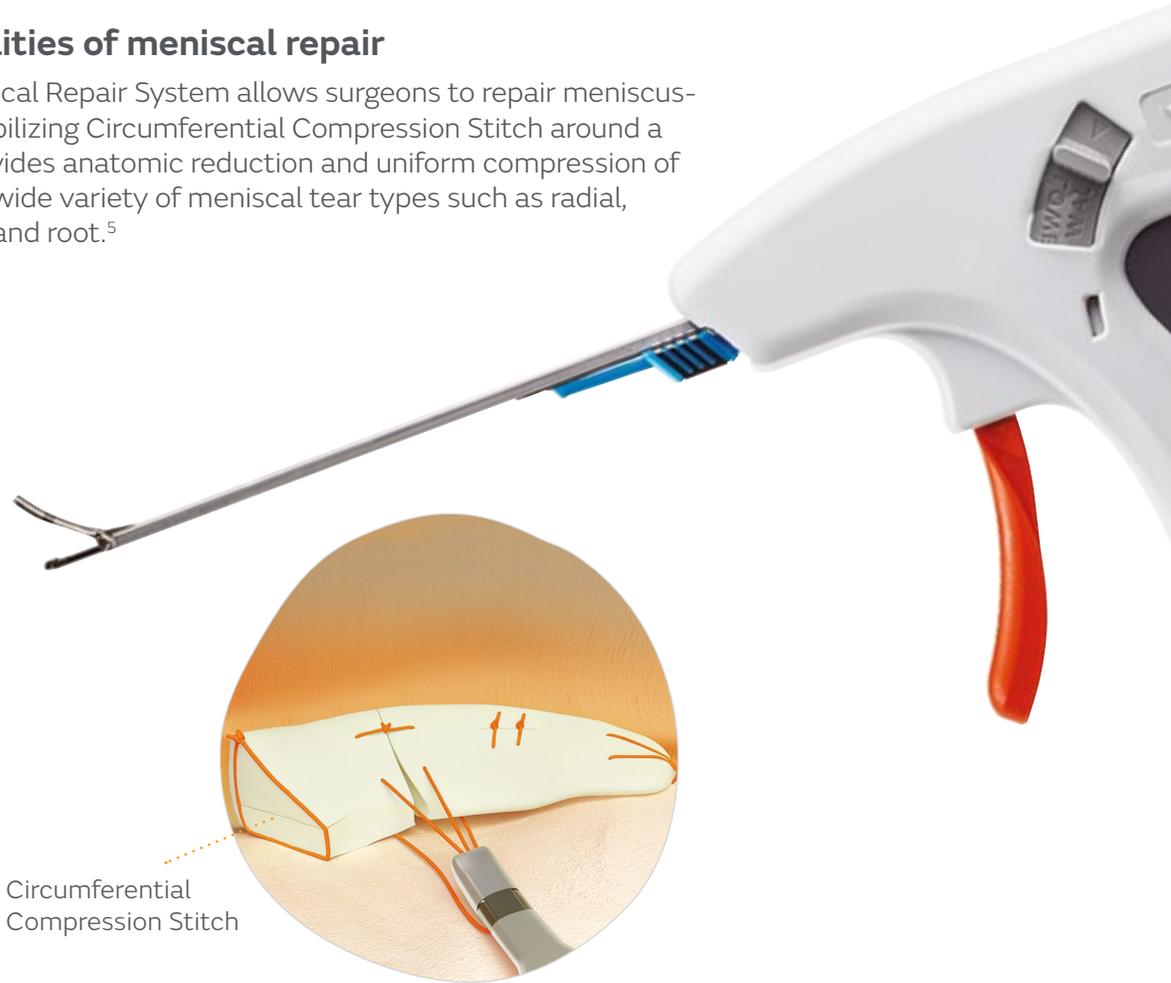
Scan or click the
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animation

NOVOSTITCH[◇] PRO

Meniscal Repair System

Expanding the possibilities of meniscal repair

The NOVOSTITCH PRO Meniscal Repair System allows surgeons to repair meniscus-to-meniscus by placing a stabilizing Circumferential Compression Stitch around a meniscal tear. This stitch provides anatomic reduction and uniform compression of the tear edges, addressing a wide variety of meniscal tear types such as radial, horizontal, vertical, complex and root.⁵



Circumferential
Compression Stitch

Access

Low 1.6mm entry profile with a retractable jaw.

Maneuver

Curved upper jaw and blunt tip to enhance maneuverability.⁵

Protect

Intraarticular needle deflects away from femur, minimizing the risk of chondral injury.⁵

Simplify

Pre-loaded all-suture implant eliminates suture management with single insertion cartridge available in size 2-0 and 0 suture.



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animation

FAST-FIX[◊] FLEX

Meniscal Repair System

Reach more, repair more

Smith+Nephew has extended the reach of all-inside meniscal repairs with FAST-FIX[◊] FLEX^{*6-8}. The unique guided needle and shaft flexibility allow access to all zones across the meniscus using a standard anterior portal.⁶

+ Increase reliability^{*6-8}

through one-handed 360° active deployment confirmed through touch, sound and sight⁶



Braided suture

may provide visibility against the white meniscus

Adjustable depth limiter

(12mm, 16mm as shipped, 20mm)

Procedural efficiency

Needle shroud may eliminate the use of a cannula and is designed to easily enter and exit the knee joint

Laser-marked needle tip

serves as a quick reference for needle depth penetration

FAST-FIX FLEX can facilitate:

- Vertical tear repairs
- Bucket handle tear repairs
- Ramp lesion tear repairs
- Meniscal allograft transplant
- And many more



FAST-FIX FLEX Curved + Bend Tool

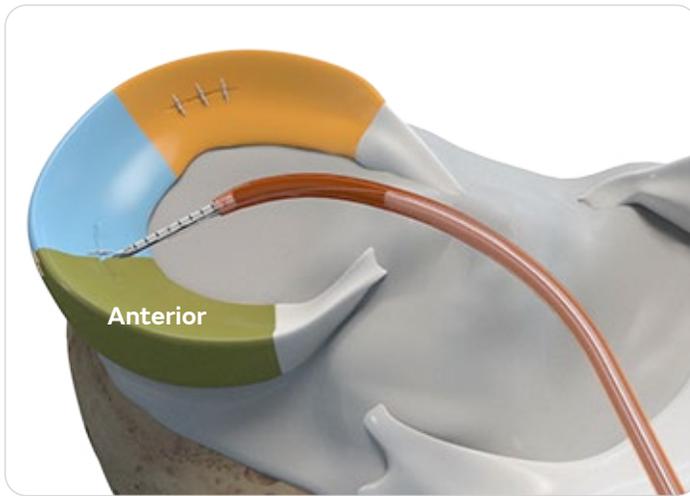


FAST-FIX FLEX Reverse Curved + Bend Tool

*compared to our predicate device

+ Enhance accessibility

FAST-FIX[®] FLEX provides access to the posterior zone as well as the mid-body and anterior third of the meniscus, the latter two zones have been shown to account for more than 40% of meniscal tears in stable adult knees.^{6,7,9}



FAST-FIX FLEX Curved

+ Preserve Anatomy

FAST-FIX[®] FLEX



FAST-FIX 360



In-line implants and a 17 gauge needle create a 25% smaller needle insertion area¹⁰

~20% less contact¹⁰ with the capsule but ~20% stronger¹¹

↓ 27%
less displacement^{*+11}

20%
stronger^{*+11}

*compared to our predicate device
+as demonstrated in biomechanical testing
Bend tool does not provide measurement. Maximum bend degree was established by benchtop testing



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ULTRA FAST-FIX[◇]

Meniscal Repair System

Tried and true all-inside meniscal repair

When the original FAST-FIX Meniscal Repair System was introduced, it set the benchmark for non-invasive, all-inside repairs. Thanks to its preloaded implants, pre-tied sliding knot and innovative pusher/cutter device, this system lets surgeons deploy two implants vertically or horizontally on either side of the meniscus, tighten the suture and trim the excess. The ULTRA FAST-FIX System was designed by building upon the success of the original FAST-FIX system.



Curved and reverse-curved needle

Curved needles are designed to provide easy access to a multitude of tear sites. The reverse-curved needle is designed for repairing tears on the inferior surface.

Passive implant deployment

The implant is deployed when it catches on the capsule.

Fast

- Unlike conventional suture-based repair systems, the ULTRA FAST-FIX system is an implant system with a pre-tied, self-sliding knot designed to eliminate the need for intraarticular knot tying.

Strong

- System provides a strong, reproducible and reliable meniscal repair.^{12,13,33}

Easy

- Curved and reverse-curved needles designed to provide easy access to a multitude of tear sites.

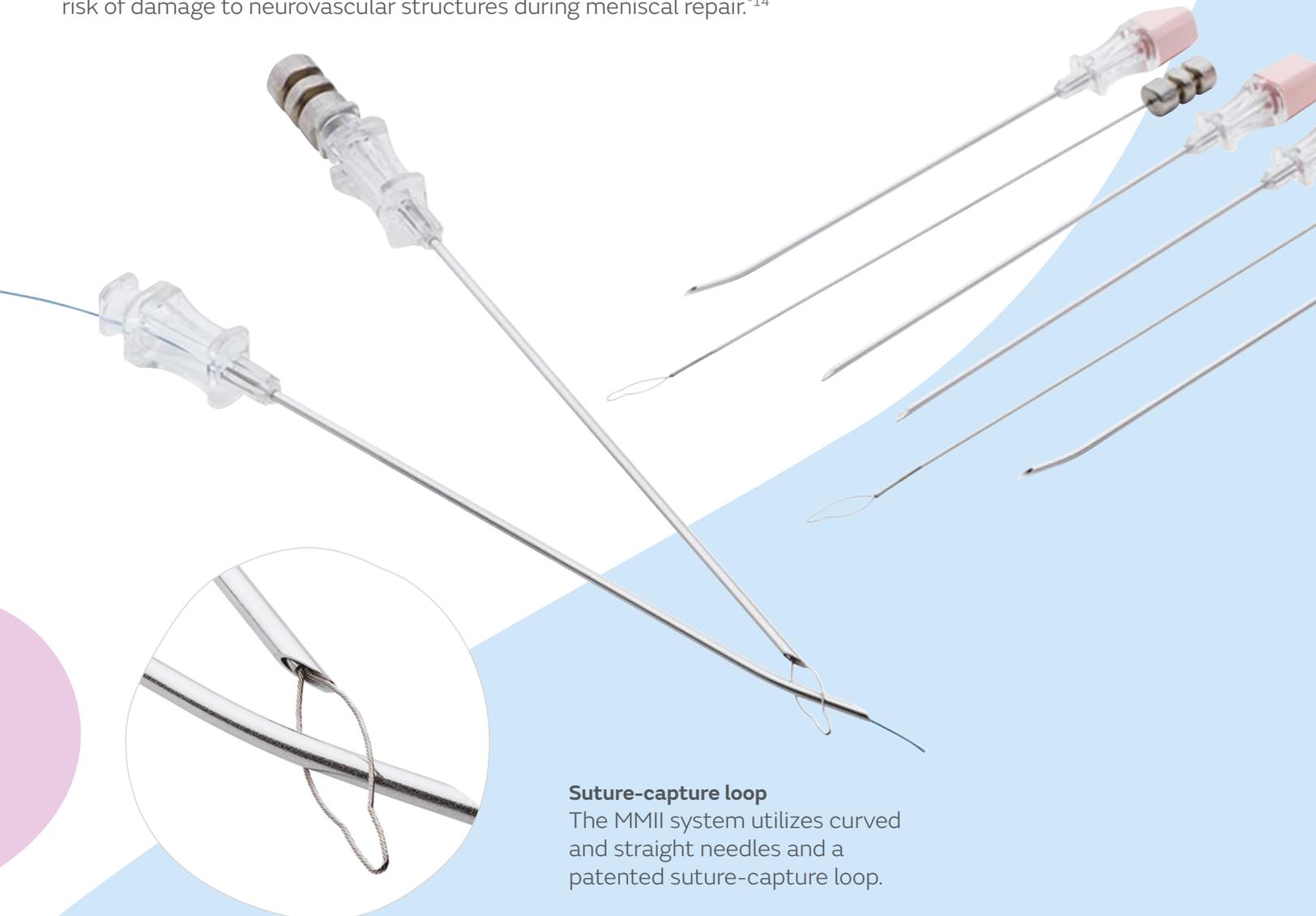
MENISCUS MENDER II

Repair System

Outside-in access to anterior tears

The MENISCUS MENDER II (MMII) Repair System is designed for repairing the meniscus under arthroscopic visualization and is ideally suited for anterior horn tears and middle-third tears. The system allows surgeons to work from the outside of the knee into the joint, instead of starting sutures inside the capsule and exiting less predictably out the back.³⁴

The MMII system utilizes curved and straight needles and a patented suture-capture loop. Depending on the patient's anatomy, the surgeon may use a combination of curved or straight needles in order to best access the tear. These components allow the surgeon to use the outside-in approach, which may help minimize the risk of damage to neurovascular structures during meniscal repair.^{*14}



Suture-capture loop

The MMII system utilizes curved and straight needles and a patented suture-capture loop.

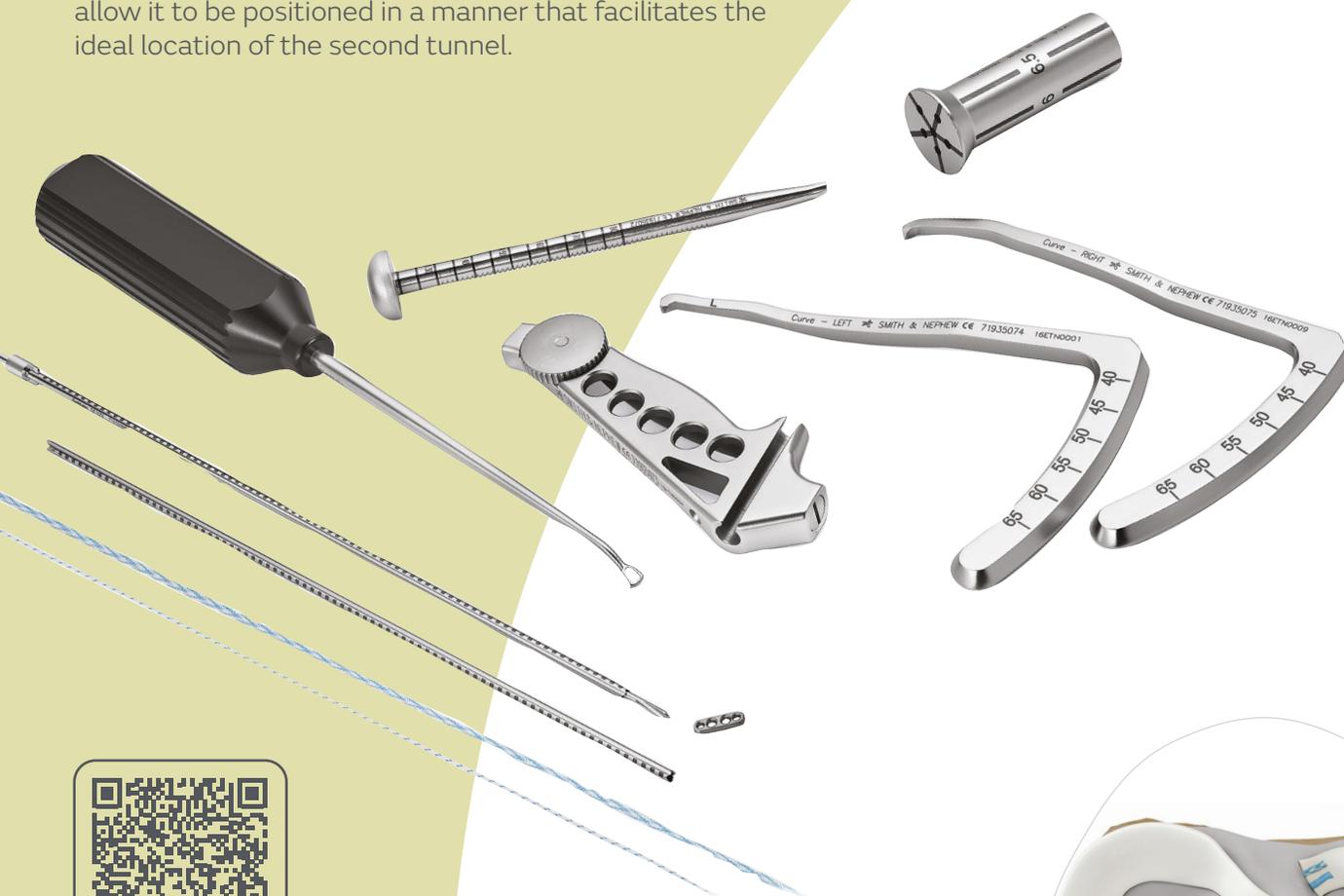
*Compared to inside-out approach

MENISCAL ROOT Repair System

Reproduce the anatomic footprint

A meniscus root tear can be defined as either an avulsion of the meniscal root from its attachment point or a radial root tear within 1cm of the root attachment.¹⁵

The MENISCAL ROOT Repair System features aimers designed to maneuver around the tibial eminence, and the system has been designed to support one- or two-tunnel procedures. The included guide has offsets of between 5-7mm which allow it to be positioned in a manner that facilitates the ideal location of the second tunnel.



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animation



FIRSTPASS[◇] MINI

Family of Suture Passers

Designed for reliability, versatility and accessibility

These suture passers, which come in three versions, left-curved, straight and right-curved, are designed to help facilitate root repair procedures executed in tight spaces.



Reliability



Fully disposable system with a preloaded needle.^{16,35,36}

Versatility



Passes ULTRABRAID[◇] Suture and ULTRATAPE[◇] Suture.

Accessibility



Straight and 17° left- and right-curved jaw options.



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MENISCAL STITCHER

Repair System

Inside-out delivery with smaller needle diameter

Classic inside-out techniques remain a viable solution for the repair of many kinds of meniscal tears. Providing the versatility to address a variety of tear patterns and the ability to deliver sutures with smaller needles, with proven long-term results, inside-out techniques have been considered the gold standard for arthroscopic meniscus repair.¹⁷

The MENISCAL STITCHER is designed specifically for inside-out procedures and can be customized to the unique needs of each procedure.



Meniscal Stitcher system includes:

- Curved double-lumen cannulas
- Straight double-lumen cannulas
- Posterior-access cannula
- Thimble
- Bending tool
- Sterilization tray
- Variety of disposable needles

NOVOCUT[◇]

Suture Manager

Suture management simplified

The NOVOCUT Suture Manager enables surgeons to tighten knots and cut suture with unique design features to simplify the knot-tying process.



Side loading

Capture suture without threading the needle.

Access

Low profile allows pushing directly on the knot.

Consistent tails

Suture tails minimize risk of cutting the knot.

Suture management

May limit the need for other devices.



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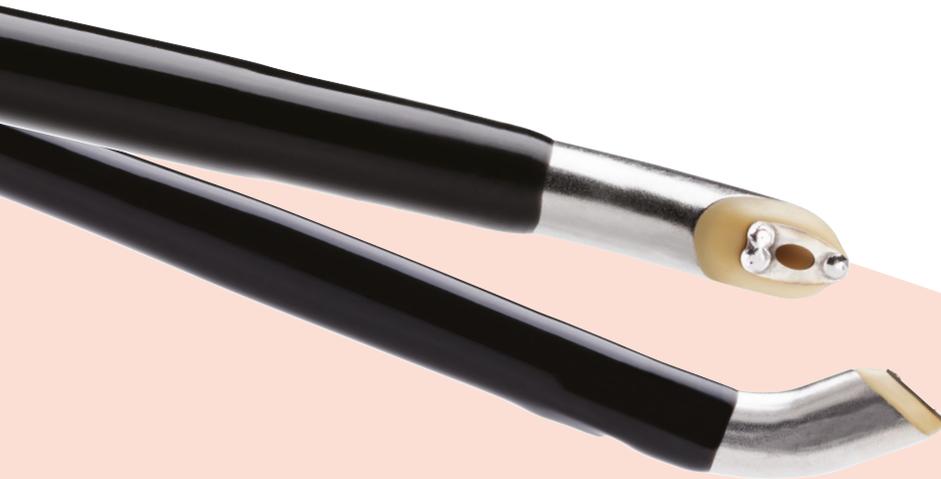
WEREWOLF[◇] FLOW 50[◇] Wand

Optimal control

COBLATION[◇] technology means controlled ablation. The COBLATION process involves the creation and application of an energy field called *glow discharge plasma*. This plasma ablates tissue through a chemical process as highly energized particles in the plasma break down molecules in the tissue.

FLOW 50 Wand enables surgeons to access and address all soft tissue types in the knee without compromise.

- Indicated for meniscus and all soft tissue in the knee
- Combined COBLATION and FLOW-IQ[◇] technology to remove tissue with speed* and precision^{18,19**}
- Designed to provide optimal access to the posterior horn and root of the meniscus



Scan or click the QR to watch the animation



Faster***

Faster patient recovery.²⁰



Better***

Better patient outcomes.²⁰⁻²²



Safe****

Safe for use on all joint soft tissue.²³⁻²⁹

* In Vac mode the FLOW 50[◇] COBLATION Wand removes free-floating tissue approximately four times faster than AMBIENT[◇] SUPER MULTIVAC 50, *in vitro*.

** The controlled plasma field produced by COBLATION allows for precise removal of soft tissue with minimal damage (100 - 200 μ m) evident in untargeted cartilage tissue *ex vivo*; Cell damage may vary depending on protocol used.

*** Compared to mechanical debridement. In a randomized, controlled study for knee chondroplasty in patients with a grade 3 chondral lesion and concomitant meniscal tears.

**** Market-indicated for use on all soft tissue types including the knee.

DYONICS[◇] PLATINUM FLYER[◇]

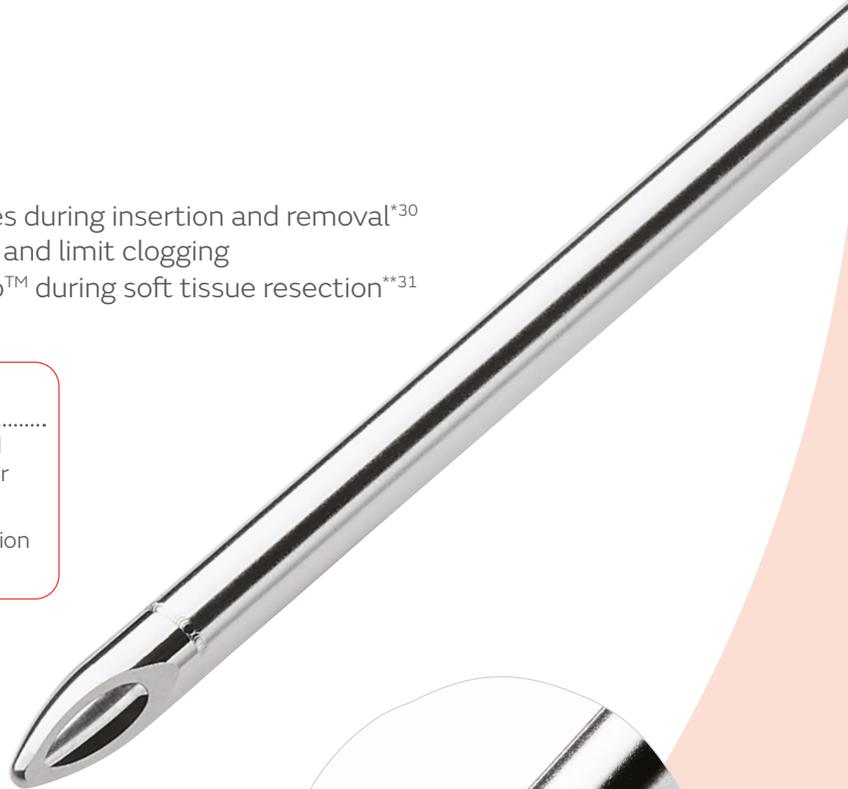
Shaver Blades

Challenge the limits

- Easily accesses tight joint spaces³⁰
- Minimizes potential for damage to surrounding tissues during insertion and removal^{*30}
- Unique window designed to maximize resection rate and limit clogging
- 78% less metal debris than Arthrex[®] 4.0mm Torpedo[™] during soft tissue resection^{**31}

Typical Procedural Use: **Objectives:**

- | | |
|--|---|
| <ul style="list-style-type: none"> • Posterior meniscus resection • Other meniscus cleanup | <ul style="list-style-type: none"> • Use tapered tip to easily access and manipulate meniscus in the posterior aspect of the knee • Address a variety of meniscal resection needs using unique window shape |
|--|---|



Competitor



DYONICS 4.0mm PLATINUM FLYER

Concave cut design increases window area up to 57% vs straight cut design³²

Access

Tapered tip facilitates easy access to tight joint spaces

Assess

Tip design allows tissue manipulation for thorough diagnosis

Address

Window design coupled with DYONICS PLATINUM technology allows for completion of meniscectomy



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*n=8

**As demonstrated in bench-top testing at maximum settings

Solution Offering

	Root	Anterior	Horizontal	Radial or Parrot Beak	Flap	Longitudinal Vertical	Bucket Handle	Ramp lesion	Meniscal allograft transplant	Complex
NOVOSTITCH [®] PRO Meniscal Repair System	●		●	●	●	●	●		●	●
FAST-FIX [®] FLEX Meniscal Repair System		●				●	●	●	●	●
ULTRA FAST-FIX Meniscal Repair System						●	●			
MENISCUS MENDER II Repair System		●								●
MENISCAL ROOT Repair System	●									
FIRSTPASS [®] MINI Suture Passers	●									
MENISCAL STITCHER Repair System			●	●	●	●	●			●
WEREWOLF [®] FLOW 50 [°] Wand	●		●	●						
DYONICS [®] PLATINUM FLYER 4.0 Blade										

Ordering information

NOVOSTITCH[®] PRO Meniscal Repair System

Reference #	Description
CTX-A003	NOVOSTITCH PRO Meniscal Repair System (2-0)
CTX-A004	NOVOSTITCH PRO Meniscal Repair System (0)
CTX-R001	NOVOSTITCH Cartridge (2-0)
CTX-R002	NOVOSTITCH Cartridge (0)

FAST-FIX[®] FLEX

72205324	FAST-FIX FLEX Curved Inserter, Bend Tool, Cannula Set
72205325	FAST-FIX FLEX Reverse Curved Inserter, Bend Tool, Cannula Set
72205676	FAST-FIX FLEX Curved
72205677	FAST-FIX FLEX Reverse Curved
015186	Meniscal Depth Probe, Reusable
014549	45° Diamond Rasp, Reusable
014550	90° Diamond Rasp, Reusable

ULTRA FAST-FIX Meniscal Repair System

72201490	ULTRA FAST-FIX, Straight
72201491	ULTRA FAST-FIX, Curved
72201492	ULTRA FAST-FIX, Reverse Curved
72201493	ULTRA FAST-FIX AB, Straight
72201494	ULTRA FAST-FIX AB, Curved
72201495	ULTRA FAST-FIX AB, Reverse Curved
72201537	Knot Pusher/Suture Cutter
7210977	Slotted Cannula, Reusable

FIRSTPASS[®] MINI Suture Passer

72290128	FIRSTPASS MINI Suture Passer
72290129	FIRSTPASS MINI Left-Curved Suture Passer
72290130	FIRSTPASS MINI Right-Curved Suture Passer

Ordering information

MENISCAL ROOT Repair System

Reference #	Description
7193J001	MENISCAL ROOT Repair System

System includes:

71935072	ACUFEX [◊] DIRECTOR MRR Angled Bullet
71935073	ACUFEX DIRECTOR MRR Drill Guide Handle
71935071	Open Curette S
71935076	MRR Offset Guide
71935074	Aimer Guide Curve, Left
71935075	Aimer Guide Curve, Right

Disposable kit includes:

71935070	Pack with ULTRABRAID [◊] Suture
71935068	Pack with ULTRATAPE Suture
71935360	Instrument Pack

MENISCUS MENDER II Repair System

7209485	MENISCUS MENDER II Disposable Set
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MENISCAL STITCHER Repair System

012600	MENISCAL STITCHER Set
012615	Ti-Cron™ 10 swaged needles with #2-0, 30" long suture (12/box)

NOVOCUT[◊]

CTX-C001	NOVOCUT Suture Manager
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DYONICS[◊] FLYER Blades

72205292	4.0 FLYER PLATINUM
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COBLATION[◊]

72290037	FLOW 50 [◊] COBLATION Wand
72290105	WEREWOLF [◊] COBLATION System

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Learn more at [AllTearsAllRepairs.com](https://www.AllTearsAllRepairs.com)

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