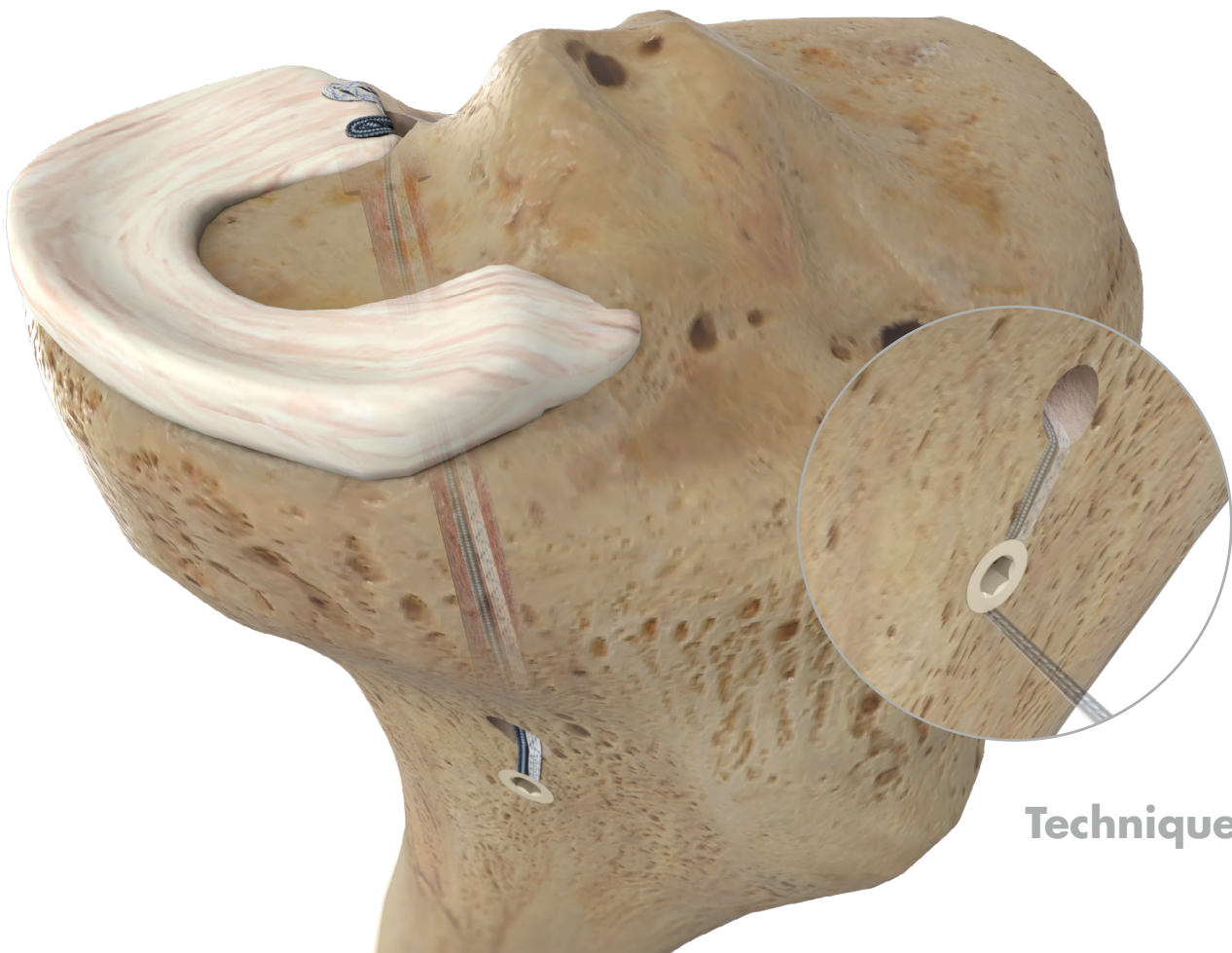


# VersiTomic RR

## Meniscal root repair system

Designed with versatility and precision in mind<sup>1</sup>



Technique guide

# Overview

Meniscal root tears can result in a loss of function and an increased risk for development of knee arthritis.<sup>2</sup> VersiTomic RR is a retrograde reaming and fixation system used for precision guided meniscal root tunnel creation and individualized meniscal root tissue repair.

## Meniscal root repair with VersiTomic RR

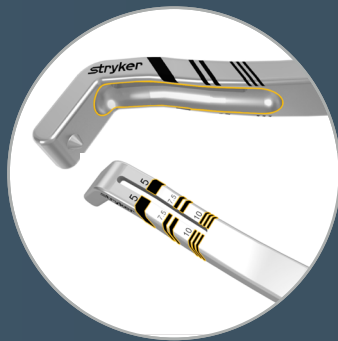
Stryker's root repair system includes two different meniscal root arms depending on your preference and patient anatomy, options for suture and the 3.9mm Omega knotless anchor system.



The **low-profile and concave design** is designed to help avoid condyles.



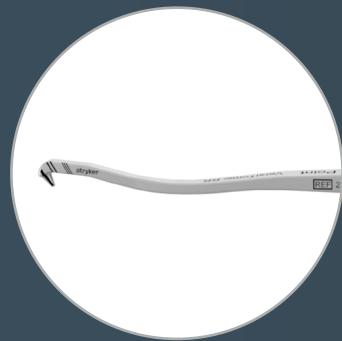
The hook aids in **stability** on the posterior tibial plateau, and the **calibrated laser lines** show desired exit point.



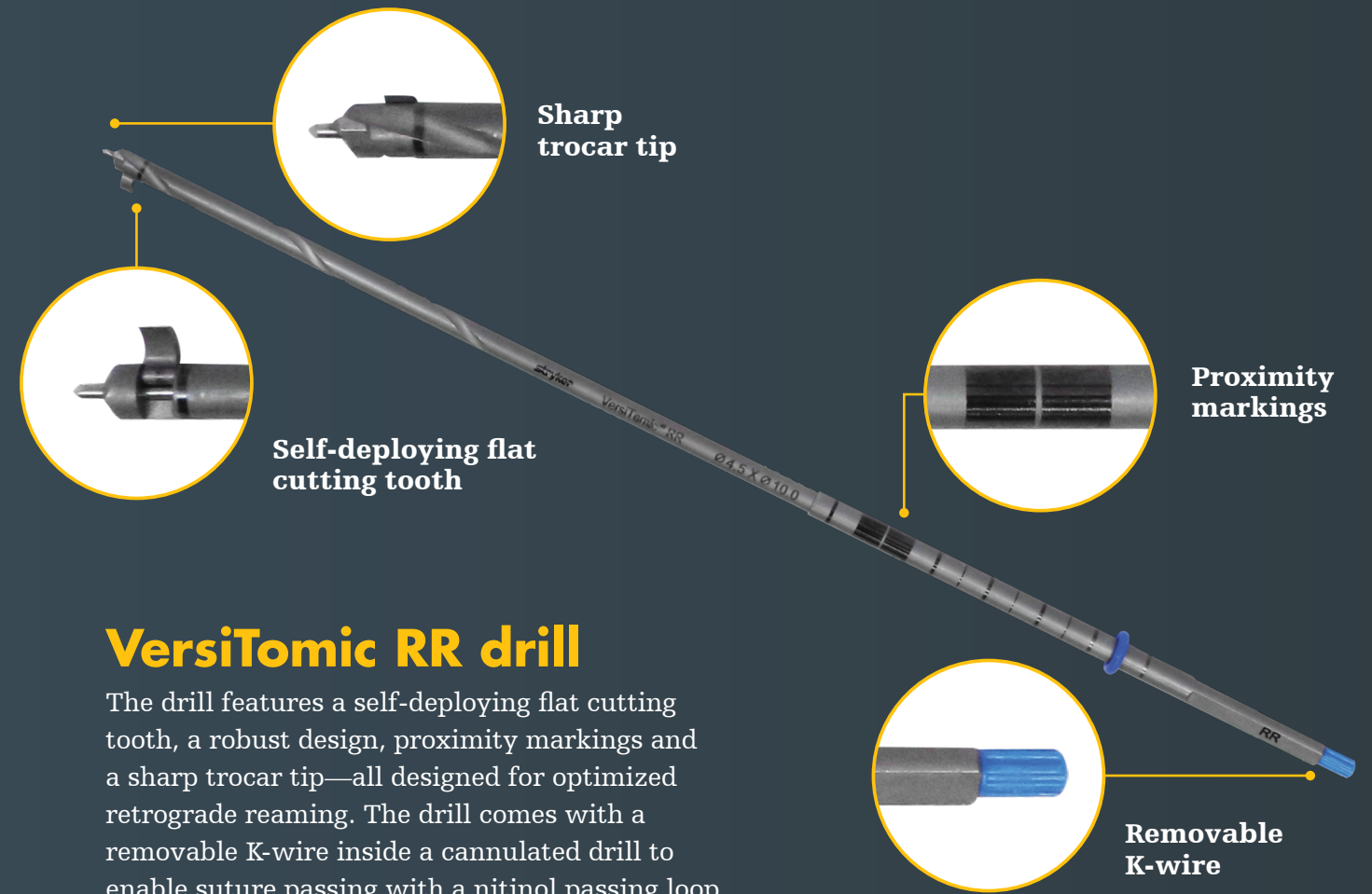
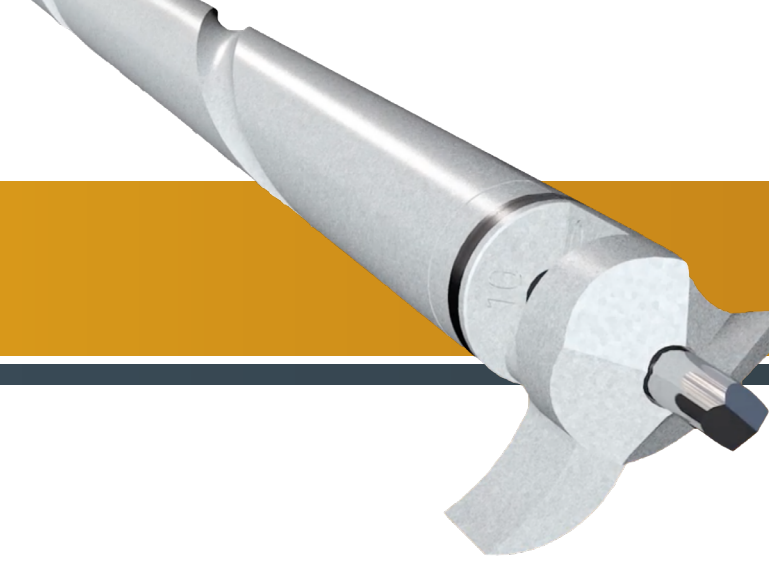
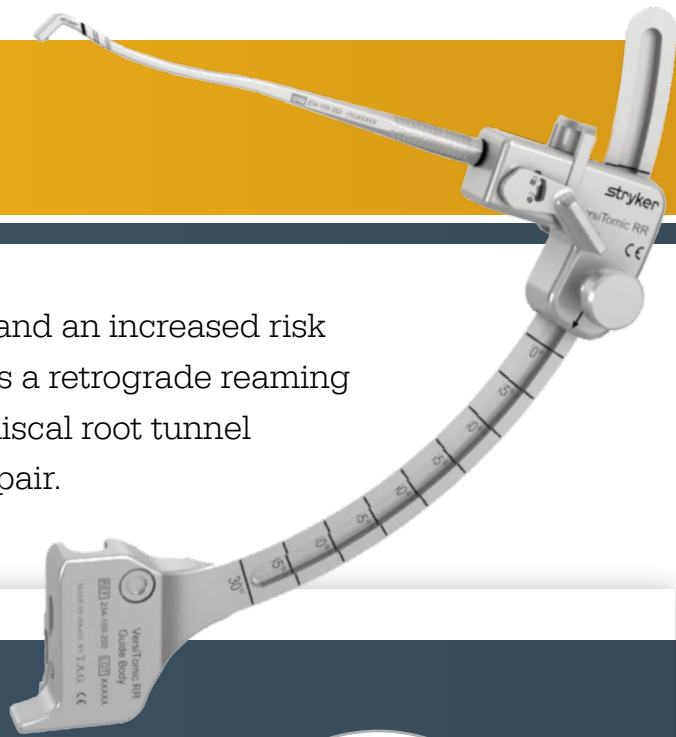
The **milled undersurface** facilitates retrieving a pin or reamer while the window helps to visualize the pin when drilling.



The system allows for **full degrees of freedom medially and laterally** while maintaining stability to avoid tunnel convergence.



An **even lower profile point arm** has the same functionality and geometry to aid in tough-to-reach places.



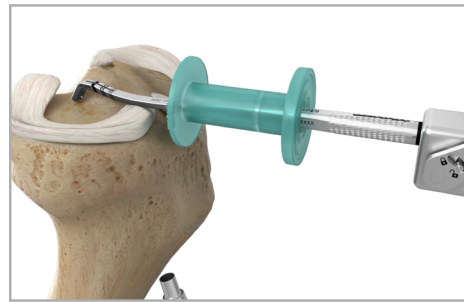
## VersiTomic RR drill

The drill features a self-deploying flat cutting tooth, a robust design, proximity markings and a sharp trocar tip—all designed for optimized retrograde reaming. The drill comes with a removable K-wire inside a cannulated drill to enable suture passing with a nitinol passing loop.

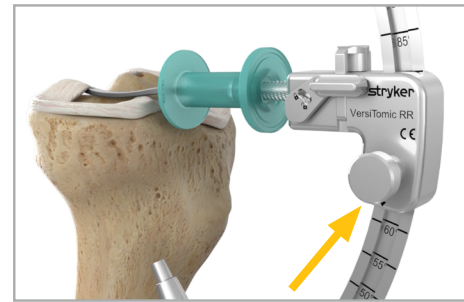
# Root repair prep



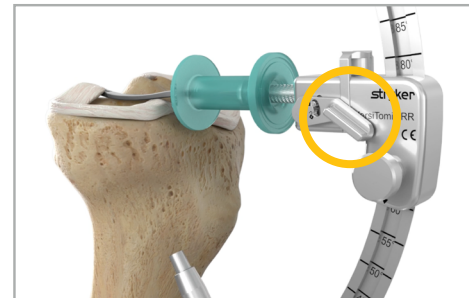
1. Prepare the root attachment site using a 50S Sweep+ or 3.5 Smooth Bite.



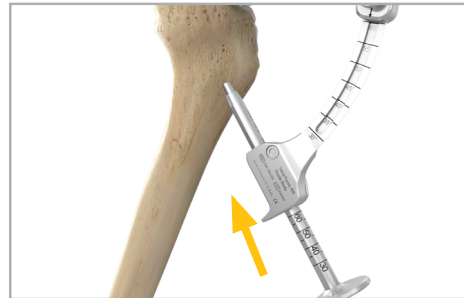
2. Insert the hook through Gateway cannula, into the joint, and secure the hook at the desired location.



3A. Set the guide angle

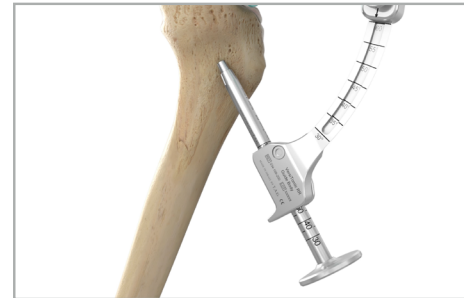


3B. Lock the guide arm by engaging the locking arm.

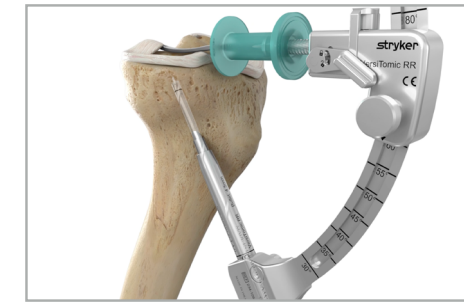


4. Advance the stepped bullet until it comes in contact with the desired entry point on the tibia.

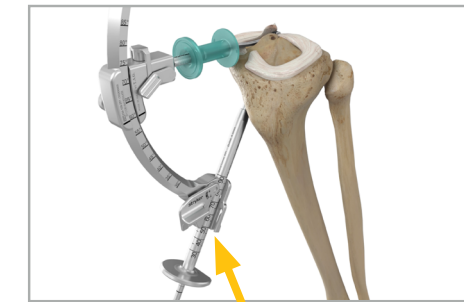
**Note:** Once in contact with the bone, you may advance the bullet an additional 1-2 clicks for added stability.



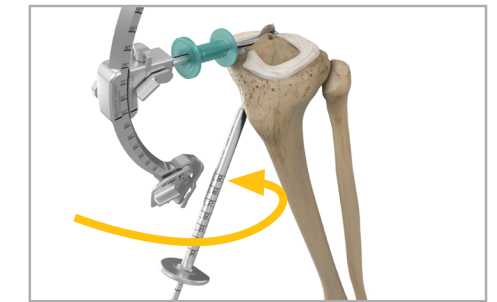
# Tunnel drilling



1. Using the 4.5x6.0mm VersiTomic RR, insert the drill and run in forward/clockwise.



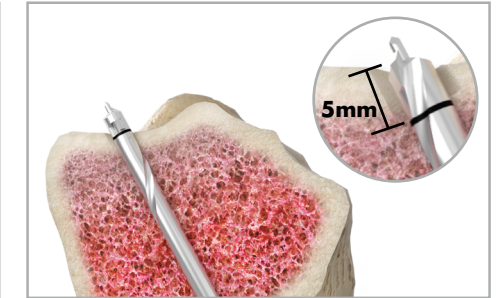
2. Once the drill tip has entered the joint, unlock the guide body trap door and remove the guide body and meniscal root arm.



3. Mallet the bullet into the bone for added security.



4. Once the black laser etched line of the VersiTomic RR is visualized, flip the self-deploying cutting tooth by running the drill in reverse/counterclockwise.

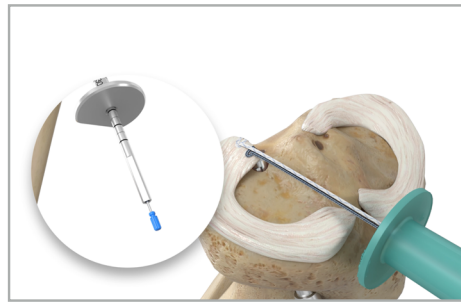


5. When the desired depth is achieved, run the drill in forward/clockwise to close the cutting tooth for VersiTomic RR removal.

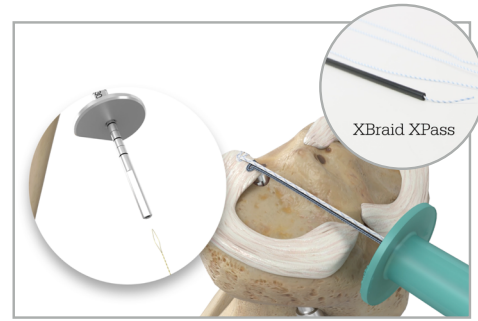
# Suture passing



1. Pass a 1.0mm XBraid passing loop tape through the meniscal root tissue in a luggage tag configuration. Repeat as desired for added fixation.

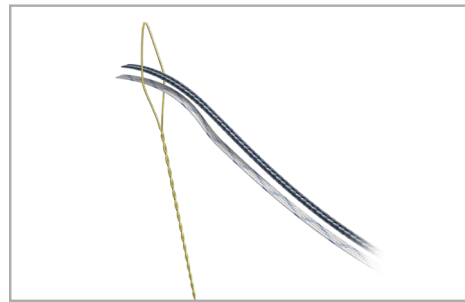


2. Unchuck the VersiTomic RR, and unscrew the blue knob counterclockwise to remove the K-wire.



3. Insert the VersiTomic RR nitinol passing wire through the reamer and into the joint.

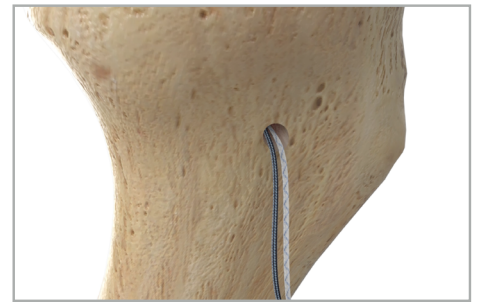
**Note:** If preferred, a XBraid XPass can be used.



4. Retrieve the nitinol wire and suture tails through the Gateway cannula and out of the joint.



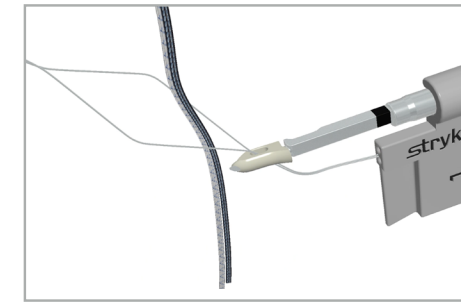
5. Shuttle the sutures through the Gateway cannula, into the joint and through the tibial tunnel created with the VersiTomic RR.



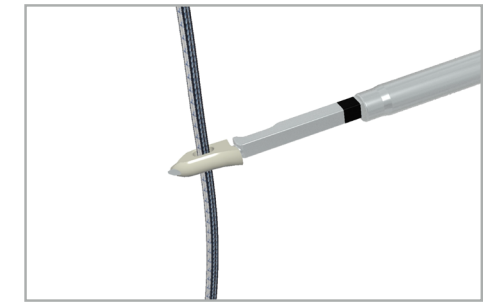
# Fixation



1. Just distal to the tunnel created by the VersiTomic RR, drill and tap for a 3.9mm Omega knotless anchor.

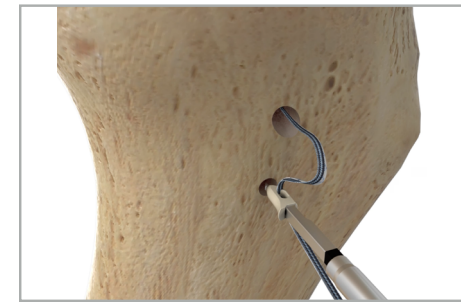


2. Load the suture tails through the Omega eyelet.

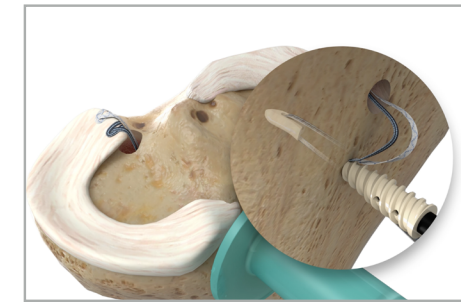


4. Individually tension the suture tails and cleat on the Omega inserter.

**Note:** An arthroscope can be used to visualize individualized suture tensioning and subsequent meniscal root reduction.



3. Mallet the eyelet into the tunnel created.



5. Insert the 3.9mm Omega screw and cut the suture tails.

**Note:** The suture tails can also be tied over Stryker's low-profile and self-centering 11.0mm concave button.

# Ordering information

## VersiTomic RR root repair system

| Part number | Description                    |
|-------------|--------------------------------|
| 234109200   | Guide body                     |
| 234109201   | Stepped bullet, 4.5mm          |
| 234109251   | Meniscal root arm, body        |
| 234109252   | Meniscal root arm, hook        |
| 234109253   | Meniscal root arm, point       |
| 234109060   | Retrograde reamer, 4.5 x 6.0mm |
| 234109065   | Retrograde reamer, 4.5 x 6.5mm |
| 234109005   | Nitinol wires (pack of 5)      |

## Omega knotless anchor system

| Part number | Description                                      |
|-------------|--|
| 3910500391  | Omega, 3.9mm PEEK knotless anchor system, single |
| 3910947204  | 3.9mm Omega drill                                |
| 3910947205  | 3.9mm Omega tap with handle                      |
| 3910500394  | 3.9mm Omega tap, trinkle                         |
| 234020117   | Ratcheting driver handle                         |
| 3910047209  | Drill guide                                      |

## XBraid suture

| Part number | Description   |
|-------------|---|
| 391090070   | #2 XBraid, S, white/blue, XPass suture, non-needled, 50" suture (one end stiffened 12")   |
| 3910900041  | #0 XBraid S, white/blue, passing loop suture, non-needled, 24" suture w/ 1.5" loop        |
| 3910900042  | #2-0 XBraid S, white/blue, passing loop suture, non-needled, 24" suture w/ 1.5" loop      |
| 3910900044  | 1.0mm XBraid TT, blue/black, passing loop suture tape, non-needled, 24" suture w/ 7" loop |

## GateWay cannula

| Part number | Description                                     |
|-------------|---|
| 3910008020  | 8mm x 20mm GateWay silicone cannula (Box of 5)  |
| 3910008030  | 8mm x 30mm GateWay silicone cannula (Box of 5)  |
| 3910008040  | 8mm x 40mm GateWay silicone cannula (Box of 5)  |
| 3910008050  | 8mm x 50mm GateWay silicone cannula (Box of 5)  |
| 3910012030  | 12mm x 30mm GateWay silicone cannula (Box of 5) |
| 3910012040  | 12mm x 30mm GateWay silicone cannula (Box of 5) |

## ProCinch slotted button

| Part number | Description                                 |
|-------------|---|
| 234100001   | ProCinch slotted button concave round 11mm  |
| 234100004   | ProCinch slotted button flat 8 x 12mm, oval |
| 234100005   | ProCinch slotted button flat 14mm, round    |

### References:

- DHFD15772
- Chambers CC, Lynch JA, Feeley BT, Nevitt MC. Association of Medial Meniscus Root Tears and Nonroot Tears With Worsening of Radiographic Knee Osteoarthritis. *Orthop J Sports Med.* 2023 Sep 11;11(9):23259671231195894. doi: 10.1177/23259671231195894. PMID: 37711506; PMCID: PMC10498710.

## Sports Medicine

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