



# Solutions for Knee Arthroscopy



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# Ligament Reconstruction



## Ligament Reconstruction

### ToggleLoc™ Device with ZipLoop™ Technology

The ToggleLoc Femoral Fixation Device with ZipLoop Technology is designed to capture the cortical bone of the femur while it is intended to provide significant fixation strength with virtually no slippage. The device also allows for a change in the lengths of its loop in order to make it fit in virtually any length tunnel.

With ZipLoop Technology, surgeons can maximize the amount of collagen in a femoral tunnel, tension the ACL graft from the femoral side (after tibial fixation is achieved), and eliminate the need for multiple sizes of implants.

- **Design Features:** Suspensory fixation device with a 13 mm titanium button and #7 UHMWPE suture
- **ZipLoop Technology:** Adjustable length allows for a single implant to conform to any procedure
- **Fixation Offerings:** Soft tissue and BTB versions available
- **Retro and Cortical Blowout Offerings:** Soft tissue version comes with standard adjustment or retro (inline) and ToggleLoc XL available for cortical blowout in standard and inline adjustment.

#### ToggleLoc with ZipLoop Technology for BTB

- Includes a continuous loop at the distal portion of the ZipLoop strands, which is utilized to create a “luggage tag” around the bone block

#### ToggleLoc with ZipLoop Inline Technology

- Ability to zip from the femoral side
- Reduces surgical steps by not having to pull the zipstrand out of the medial portal

#### ToggleLoc XL with ZipLoop Technology

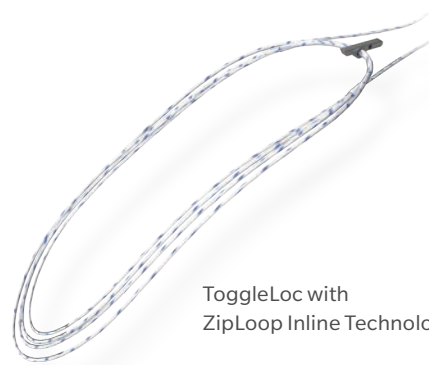
- Indicated for the unanticipated intra-operative cortical breaching cases
- Provides larger surface area for instances where larger tunnels are encountered
- Button is 20 mm, 7 mm longer than the standard ToggleLoc button



ToggleLoc with ZipLoop Technology



ToggleLoc with ZipLoop Technology for BTB



ToggleLoc with ZipLoop Inline Technology

### Implants

| REF       | Description  |
|-----------|--|
| 904755    | ToggleLoc Femoral Fixation Device with ZipLoop Technology —Standard Loop |
| 904754    | ToggleLoc Femoral Fixation Device with ZipLoop Technology —Long Loop     |
| 904756    | ToggleLoc Femoral Fixation Device with ZipLoop Technology for BTB Grafts |
| 110005087 | ToggleLoc with ZipLoop Inline Implant                                    |
| 110005089 | ToggleLoc XL with ZipLoop  |
| 110005090 | ToggleLoc XL with ZipLoop Inline   |

## ComposiTCP™ Interference Screw

### ComposiTCP Interference Screw

- Composite mix for both soft tissue and bone-tendon-bone grafts
- All screw sizes compatible with a 1.1 mm guide wire
- Available in both round head and fully threaded options

### ComposiTCP 30 Interference Screw

- Made with a composite blend of 70% PLDLA and 30% beta Tri-Calcium Phosphate

### ComposiTCP 60 Interference Screw

- Made with a composite blend of 40% PLDLA and 60% beta Tri-Calcium Phosphate
- The composite blend of 40% PLDLA and 60% beta Tri-Calcium Phosphate has been studied and the results reported in an in-vivo animal study showed that in comparison with pure PLA, TCP-containing composite materials had faster degradation kinetics, caused less inflammatory reaction, and promoted contact osteogenesis. In addition, the study discussed how increased amounts of TCP have been shown to stimulate the proliferation of osteogenous cells.<sup>1</sup>



### ComposiTCP 60 Interference Screws

| Sizes      | References     |            |
|------------|----------------|------------|
|            | Fully Threaded | Round Head |
| 9 x 25 mm  | -              | 905256     |
| 9 x 30 mm  | -              | 905257     |
| 9 x 35 mm  | -              | 905258     |
| 10 x 25 mm | 905259         | -          |
| 10 x 30 mm | 905261         | -          |
| 10 x 35 mm | 905262         | -          |
| 11 x 30 mm | 905263         | -          |
| 11 x 35 mm | 905264         | -          |

### ComposiTCP 30 Interference Screws

| Dimension | References     |            |
|-----------|----------------|------------|
|           | Fully Threaded | Round Head |
| 7 x 20 mm | 110004594      | 110004604  |
| 7 x 25 mm | 110004595      | 110004605  |
| 8 x 20 mm | 110004598      | 110004608  |
| 8 x 25 mm | 110004599      | 110004609  |
| 8 x 30 mm | -              | 110004611  |
| 9 x 25 mm | 110004612      | 905216     |
| 9 x 30 mm | -              | 905217     |
| 9 x 35 mm | -              | 905218     |

### Instruments

| REF       | Description                       |
|-----------|-----------------------------------|
| 110004597 | ComposiTCP 7-8 mm Tap             |
| 110004607 | ComposiTCP 7-8 mm Modular Driver  |
| 905278    | ComposiTCP 9-11 mm Tap            |
| 905274    | ComposiTCP 9-11 mm Modular Driver |
| 909733    | Arthrotek® Ratchet Handle         |



## Ligament Reconstruction

### Gentle Threads™ Interference Screws

- Proven LactoSorb® material<sup>2</sup>
- Blunt thread design assists in protecting the graft
- Screws are compatible with 1.5 mm Nitinol guide wires
- Available in fully thread and round head designs for tibial and femoral fixation



#### Implants

| Size      | References<br>Fully Threaded | References<br>Round Head |
|-----------|------------------------------|--------------------------|
| 7x 20 mm  | 905600                       | -                        |
| 7x 25mm   | 905601                       | 905613                   |
| 7x 30 mm  | 905602                       | -                        |
| 8x 20 mm  | 905603                       | 905614                   |
| 8x 25 mm  | 905604                       | 905615                   |
| 8x 30 mm  | 905605                       | -                        |
| 9x 20 mm  | 905606                       | 905616                   |
| 9x 25 mm  | 905607                       | 905617                   |
| 9x 30 mm  | 905608                       | -                        |
| 9x 35 mm  | 905627                       | -                        |
| 10x20 mm  | 905609                       | -                        |
| 10x 25 mm | 905628                       | 905620                   |
| 10x 30 mm | 905629                       | -                        |
| 10x 35 mm | 905630                       | -                        |

#### Instruments

| REF    | Description    |
|--------|----------------|
| 905650 | GT Screwdriver |

# Meniscus Repair





## Meniscus Repair

### CrossFix® Meniscal Repair System

The CrossFix System is a new meniscal repair device offering the flexibility and precision of open suturing techniques through a faster and less invasive all-inside method. The all-suture device also reduces the risk of chondral injury by securing meniscal tears with the same horizontal or vertical mattress stitch produced with open suturing techniques. The CrossFix System is designed to address unmet needs in the market by offering an all-suture and simple option for meniscal repair.

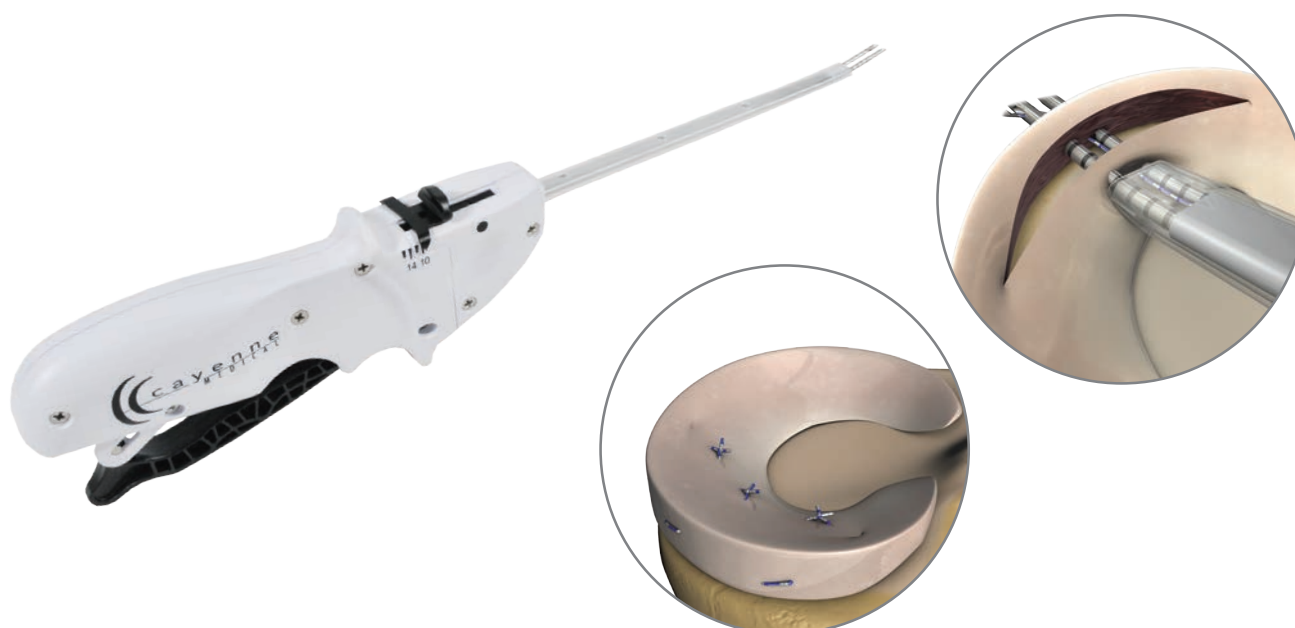
- **Single Insertion:** Dual needle design is designed to allow for easy access and delivery to the tear site
- **Biomechanically Strong Repair:** Biomechanically strong fixation with pull out forces equal to open suture techniques.<sup>3</sup>
- **Reproducible Technique:** Pre-tied sliding knot aims at providing a simple reduction and a reliable repair
- **Introducer:** Provides seamless device insertion into the joint space

#### Implants

| REF     | Description                                  |
|---------|--|
| CM-8001 | CrossFix II Meniscal Repair Device, Straight |
| CM-8002 | CrossFix II Meniscal Repair Device, Up Curve |

#### Disposables

| REF     | Description  |
|---------|--|
| CM-8000 | CrossFix II Disposable Procedure Kit (including Probe, Knot Pusher/Suture Cutter and Introducer) |



# Sutures



## Sutures

### ExpressBraid™ Suture

ExpressBraid consists of a 3" trocar point, straight needle attached to a 38" strand of #2 MaxBraid™ suture. The MaxBraid sutures are braided, non-absorbable sutures available in a white configuration consisting of 100% Ultra High Molecular Weight Polyethylene (UHMWPE) fibers and a blue and white co-braid configuration consisting of Deklene II, Polypropylene suture braided into 100% UHMWPE fibers. The sutures are provided uncoated and are available either in a single or ten pack configurations.

#### Implants

| REF       | Description                            |
|-----------|--|
| 110003463 | ExpressBraid 10-Pack White Suture      |
| 110003540 | ExpressBraid Single White              |
| 110003464 | ExpressBraid 10-Pack Blue/White Suture |
| 110003539 | ExpressBraid Single Blue/White         |



## Early Interventions & Biologics



## Early Interventions & Biologics

### Fermathron® Viscosupplement

Fermathron Viscosupplement products are intended to replace degraded natural Hyaluronic Acid in patients with mild to moderate osteoarthritis that have painful or stiff joints.

Fermathron products are a sodium hyaluronate viscosupplement for intra-articular injection into the synovial space of synovial joints.

#### Choice of three variations

The Fermathron family consists of three variations. The key difference of the products is the concentration of hyaluronic acid and its specific viscoelastic properties. In Fermathron S the long spiral molecules of Hyaluronic Acid are interconnected so that a three dimensional network is created. By cross-linking the strands as opposed to only having free Hyaluronic Acid strands, Fermathron S viscosupplement achieves a pain and stiffness relief in knee and hip joints with only one injection as opposed to 3 or 5 required with Fermathron or Fermathron Plus products.

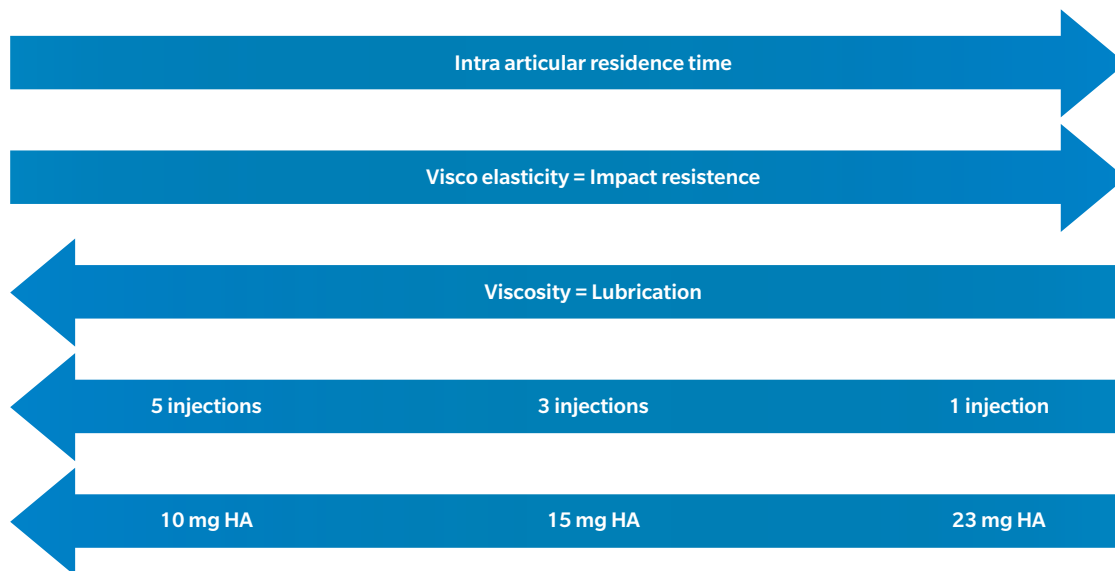
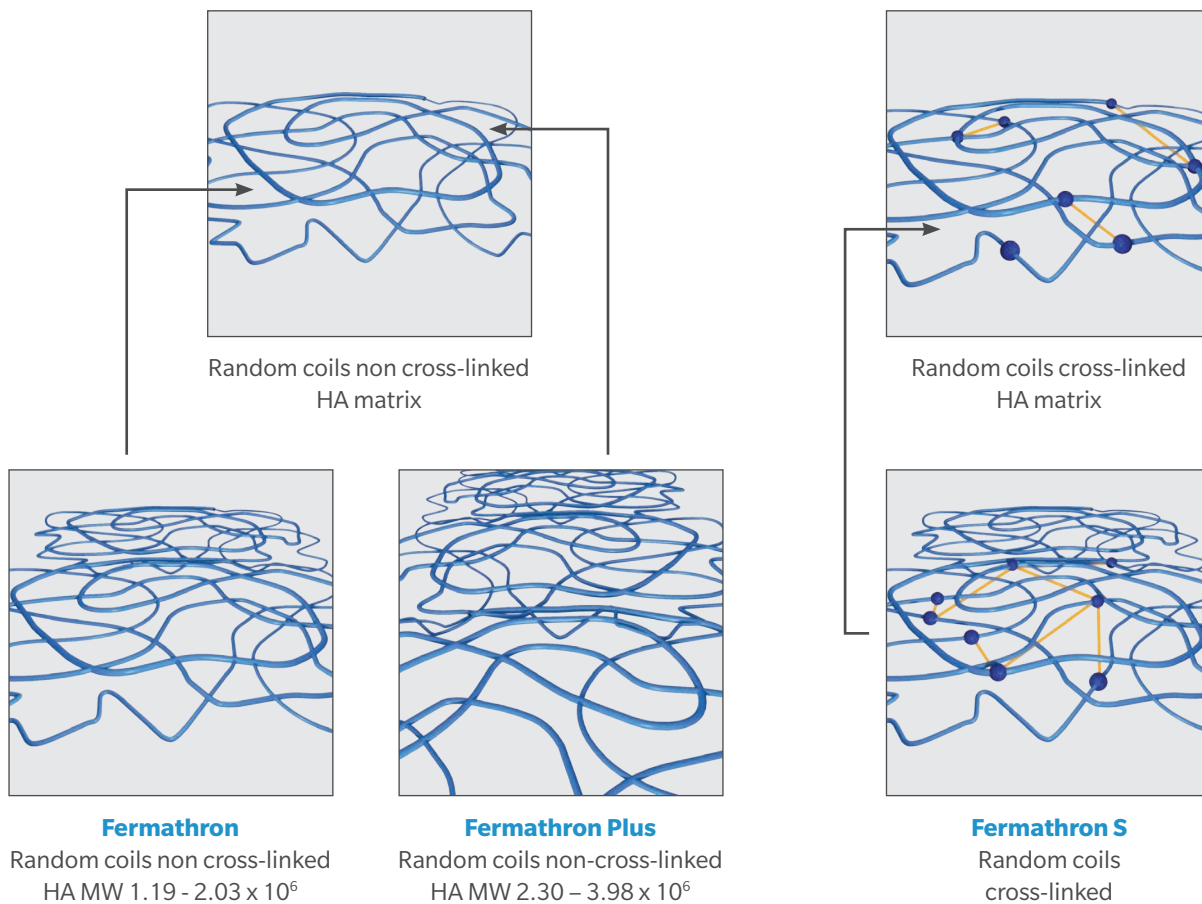
Fermathron and Fermathron Plus viscosupplements are approved for the relief of pain and stiffness of the knee, hip and ankle joints. In addition Fermathron Plus is approved for the relief of pain and stiffness in the shoulder.

Fermathron S is approved for the relief of pain and stiffness of the knee or hip joint.



|                        | Molecular weight of sodium Hyaluronate | Amount of HA per injection | Volume per injection | Concentration of Sodium Hyaluronate in weight/volume | Dosage*      |
|------------------------|--|----------------------------|----------------------|--|--------------|
| <b>Fermathron</b>      | 1.19-2.03 milion Dalton                | 20 mg                      | 2.0 ml               | 1.0 %  | 5 injections |
| <b>Fermathron Plus</b> | 2.30-3.98 milion Dalton                | 30 mg                      | 2.0 ml               | 1,5 %  | 3 injections |
| <b>Fermathron S</b>    | Cross-linked                           | 69 mg                      | 3.0 ml               | 2.3 %  | 1 injection  |

\*Three or five injections is recommended for the knee joint. The dosage regimen should be adapted by the Healthcare Professional for injection into the synovial space of the hip, ankle and shoulder joints. It is recommended that injections in the hip, ankle and shoulder joints are performed using ultrasound or fluoroscopic guidance.



Article Numbers

| REF        | Description                                       |
|------------|---|
| 236380-INT | Fermathron Sodium Hyaluronate 20 mg / 2.0 ml      |
| 236381-INT | Fermathron Plus Sodium Hyaluronate 30 mg / 2.0 ml |
| 236382-INT | Fermathron S Sodium Hyaluronate 69 mg / 3.0 ml    |

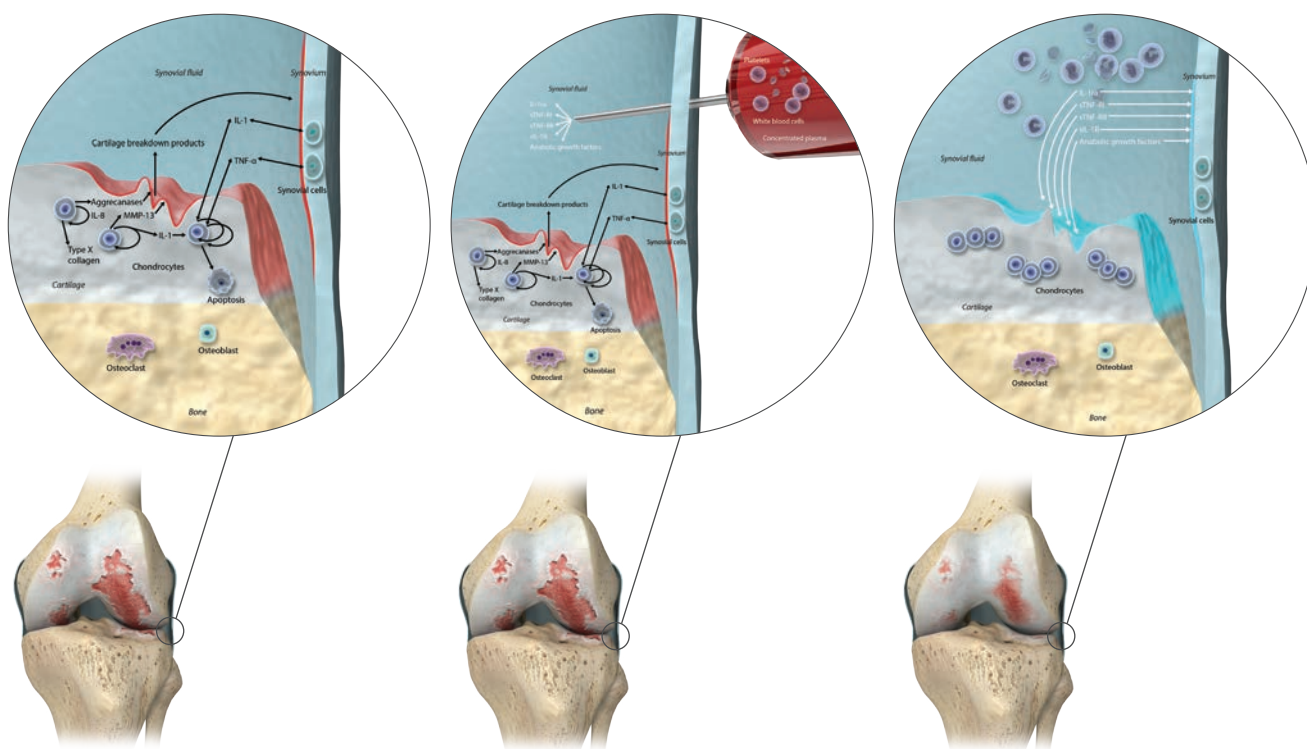


## nSTRIDE® Autologous Protein Solution (APS)

### Intra-Articular Injection for the Treatment of Knee Osteoarthritis.

The nSTRIDE APS Kit is designed to produce a groundbreaking autologous therapy to treat pain and slow the progression of cartilage degradation and destruction in the knee. The nSTRIDE APS Kit is a cell-concentration system which concentrates anti-inflammatory cytokines and anabolic growth factors to significantly decrease pain and promote cartilage health.

- 70% improvement in pain after 2 years.<sup>11,\*</sup>
- Significantly Reduces Pain Associated with Knee OA<sup>4-6</sup>
- Significantly Improves Function in the Knee Joint associated with OA<sup>4-6</sup>
- Stimulates Cartilage Cell Proliferation<sup>7^</sup>
- Blocks Cartilage Destruction<sup>7^</sup>
- Slows Cartilage Degradation<sup>7^</sup>
- Point-of-Care
- Single Injection



In an osteoarthritic knee, an increase in inflammatory cytokines results in cartilage degeneration and knee pain. The inflammatory proteins IL-1 and TNF $\alpha$  attack the cartilage. These inflammatory proteins must be stopped simultaneously to decrease pain and slow cartilage degeneration.<sup>8</sup>

The nSTRIDE APS output introduces high levels of IL-1ra, sIL-1R, sTNF-R1, and sTNF-R2 that block the inflammatory cytokines IL-1 and TNF $\alpha$ <sup>10</sup> which may slow cartilage degeneration.<sup>7^</sup> While balance is being restored to the knee, anabolic growth factors (IGF-1 and TGF- $\beta$ 1)<sup>10</sup> are also introduced for beneficial cartilage health.<sup>9</sup>

The nSTRIDE APS Kit creates a therapy to reduce pain in the knee joint, improve joint function and slow the destruction of cartilage.<sup>6,7</sup> The procedure is a non-surgical, single injection done in a clinic setting.

#### Article Numbers

#### REF

#### Description

800-3000ST

nSTRIDE Autologous Protein Solution

## Subchondroplasty® Procedure

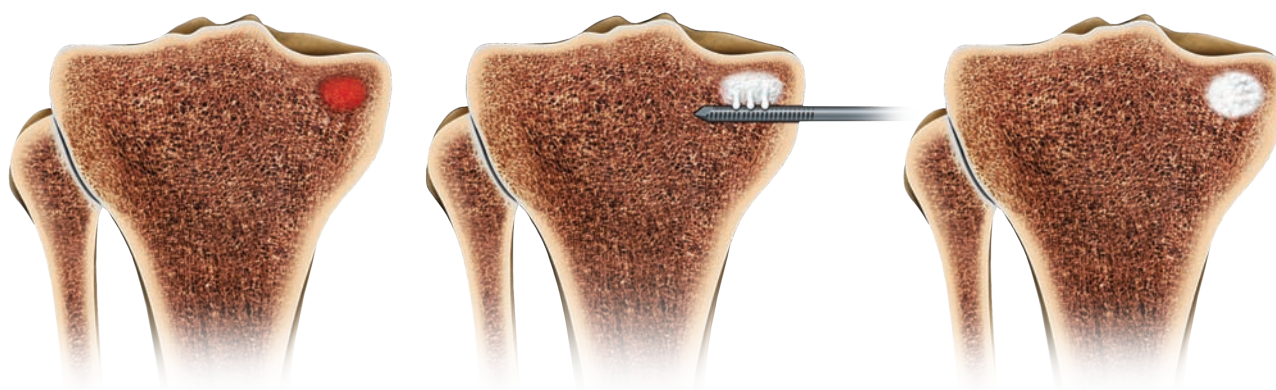
The Subchondroplasty (SCP®) Procedure is a minimally-invasive, fluoroscopically-assisted procedure that targets and fills<sup>12</sup> subchondral bone defects through the delivery of AccuFill® Bone Substitute Material (BSM), a nanocrystalline\*, highly porous injectable calcium phosphate (CaP).

The SCP Procedure is usually performed along with arthroscopy for visualization and treatment of findings inside the joint. In some cases, an open or mini-open procedure is necessary for access to the defect.

The SCP Procedure fills bone defects with AccuFill BSM, a Truly-Injectable Bone Substitute Material.

AccuFill BSM is an engineered calcium phosphate compound. It flows readily to fill subchondral bone defects<sup>12</sup>, then crystallizes and sets in an endothermic reaction at 37° to form a nanocrystalline, macroporous scaffold in the bone.<sup>13</sup> AccuFill BSM is replaced with new bone.<sup>13</sup>

| CRITERIA    | FEATURE <sup>12,13</sup>  | BENEFIT <sup>12,13</sup>   |
|-------------|---|--|
| Performance | Truly Injectable.<br>Remains Cohesive.<br>Flowable inside cancellous bone.<br>Isothermally sets in 10 minutes at 37 C.  | No need to remove subchondral bone.<br>No phase separation from injection pressure.<br>Interdigitates easily for complete defect fill. Sets hard, no thermal necrosis.               |
| Properties  | Proprietary engineered apatite, similar to apatite of bone. Osteoconductive.<br>Nanocrystalline* structure.<br>55% total porosity; 1-300µm pore size.<br>~7-9 MPa compressive strength. | Undergoes cell-mediated remodeling.<br>AccuFill BSM porosity and pore size give it greater surface area for cellular activity.<br>Physical properties comparable to cancellous bone. |
| Handling    | 15 minutes of working time.<br>May be mixed with saline or whole blood.<br>Injectable under digital pressure.   | Long window for implantation; intraoperative flexibility.<br>Tactile feedback during injection.  |



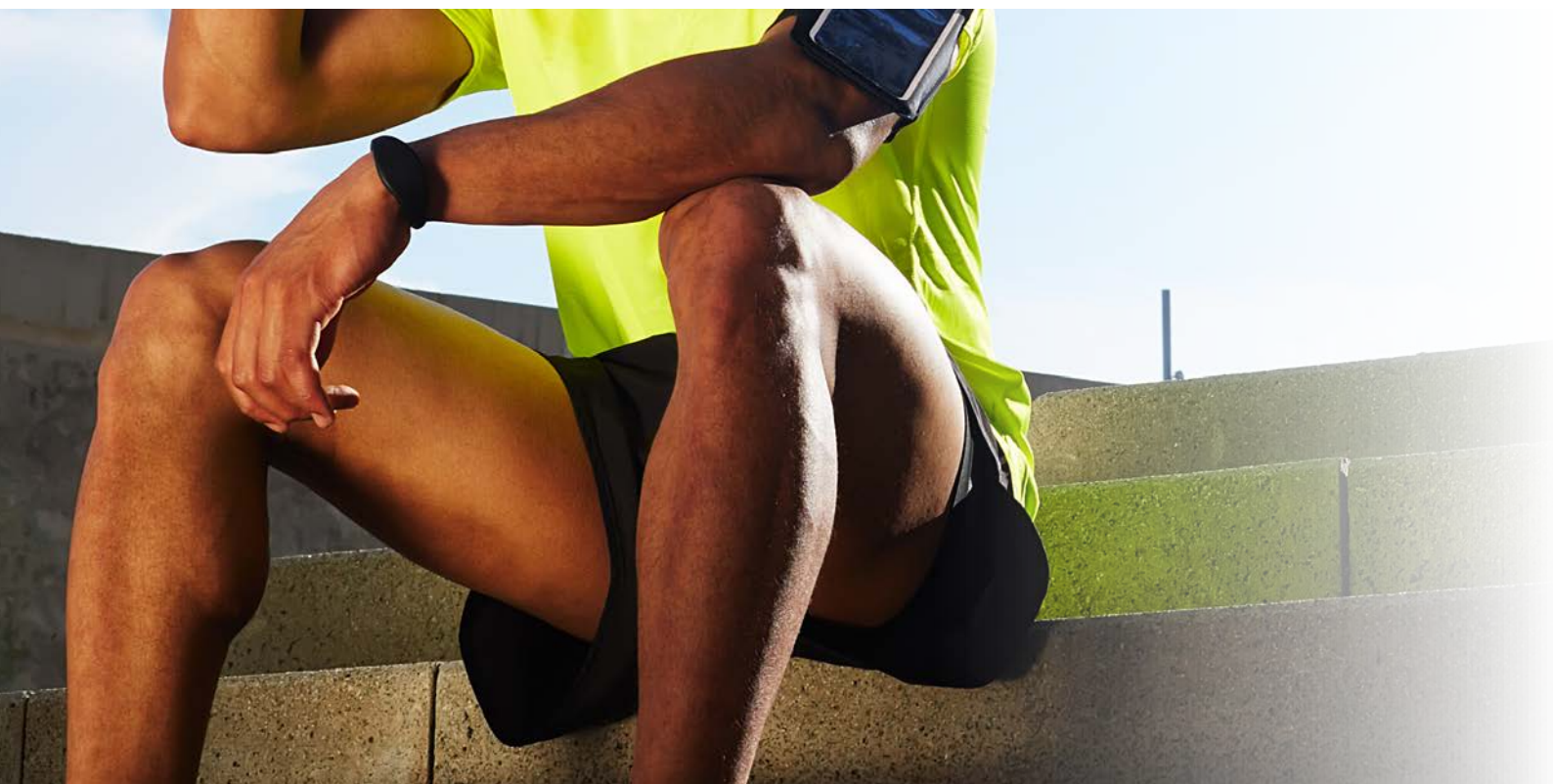


AccuMix® Mixing System

## Article Numbers

| REF     | Description   |
|---------|---|
| 201.150 | AccuFill Bone Substitute Material, 5cc                    |
| 201.130 | AccuFill Bone Substitute Material, 3cc                    |
| 331.100 | AccuMix® Mixing System                                    |
| 308.151 | AccuPort® End-Delivery Cannula, 15 Ga x 60mm Drill Length |
| 307.032 | AccuPort Side-Delivery Cannula, 11 Ga x 120mm             |
| 307.034 | AccuPort End-Delivery Cannula, 11 Ga x 120mm              |
| 311.102 | Replacement Parts for AccuMix Mixing System               |
| 310.100 | AccuZone® Navigation Guide                                |
| 323.100 | AccuAim® Targeting Guide                                  |

# Visualization





## Visualization

### Zimmer Biomet Imaging System Plus

The Zimmer Biomet Imaging System Plus is an all-in-one full high definition camera system combining an autoclavable 3-Chip CMOS camera head, LED lighting, image management and integration with an intuitive tablet controller.

The 3-Chip CMOS autoclavable camera head features a 1920 x 1080p resolution with four full programmable camera head buttons and the ability to control the LED lightsource.



| REF        | Description                             |
|------------|---|
| 84-10-2010 | Camera Control Unit 3-in-1 Full HD Plus |
| 84-10-2100 | Full HD 3 CMOS Camera Head              |
| 84-10-1000 | Tablet User Interface                   |
| 84-28-0320 | Tablet Vesa Adapter                     |
| 84-28-0321 | Tablet Vesa Adapter with Lock           |
| 84-26-4000 | USB 64GB Flash Drive                    |

### Zimmer Biomet 4.0 mm Arthroscopes, Full-HD



| REF        | Description                               |
|------------|---|
| 8300036855 | Arthroscope 4.0 mm, 30°, Full-HD          |
| 8300036856 | Arthroscope 4.0 mm, 70°, Full-HD          |
| 8300036857 | Trocar sheath with 2 rotatable stopcocks  |
| 8300036862 | Obturator conical blunt for trocar sheath |

# Resection





## Resection



### Zimmer Biomet Shaver System

The Zimmer Biomet Shaver System consisting of a control unit equipped with state-of-the-art electronics, a multifunctional footswitch and ergonomically designed handpieces that were developed for surgical use in the field of arthroscopy.

This shaver system is characterized by its high efficiency and user-friendly handling.

| REF      | Description                          |
|----------|--------------------------------------|
| 918001   | Shaver Console                       |
| 918021   | Shaver Handpiece with Hand Operation |
| 918020   | Shaver Handpiece with Foot Operation |
| 918003-2 | Two-Pedal Footswitch                 |



### Zimmer Biomet Shaver Blades and Burs

Zimmer Biomet offers a variety of sharp and efficient blades and burs designed for knee arthroscopy applications.

| REF     | Description                              |
|---------|--|
| 9181535 | Aggressive Meniscus Cutter 3.5           |
| 9181548 | Aggressive Meniscus Cutter 4.8           |
| 9181555 | Aggressive Meniscus Cutter 5.5           |
| 9182142 | Aggressive Meniscus Cutter Plus 4.2      |
| 9182742 | Full Radius Resector Sharp Cut 4.2       |
| 9181335 | Aggressive Full Radius Resector 3.5      |
| 9181348 | Aggressive Full Radius Resector 4.8      |
| 9181355 | Aggressive Full Radius Resector 5.5      |
| 9183442 | Aggressive Full Radius Resector Plus 4.2 |
| 9181042 | Round Burr 4.2 mm (Burr Ø 3.0 mm)        |
| 9181055 | Round Burr 5.5 mm (Burr Ø 4.0 mm)        |
| 9181955 | Oval Burr 5.5 mm (Burr Ø 4.0 mm)         |
| 9181965 | Oval Burr 6.5 mm (Burr Ø 5.0 mm)         |

*Additional Blade and Bur options are available.*

# Fluid Management



## Fluid Management

### Zimmer Biomet Multi-Indication Pump

The Zimmer Biomet Multi-Indication Pump is a multi-purpose fluid management system intended for use to provide distension, fluid irrigation and aspiration, and to monitor the volume differential between the irrigation fluid flowing into and out of the patient during endoscopic diagnostic and operative procedures.

#### Main Characteristics

- Can be used for multiple indications (Arthroscopy, Laparoscopy, Hysteroscopy)
- Intuitive touchscreen control
- Pressure of up to 150 mmHg
- Maximum flow rate of up to 1.8 l/min
- Automatic instrument calibration guarantees optimal performance
- Integrated vacuum suction for continuous flow and drainage from shaver or RF system
- RFID-protected tube sets are designed to ensure high patient safety



| REF      | Description                                    |
|----------|--|
| 11010010 | Multi-Indication Pump                          |
| 11010020 | Footswitch                                     |
| 11010011 | Irrigation tube set, one-time use              |
| 11010013 | Irrigation day tube set, 24-hour use           |
| 11010047 | Patient tube set, one-time use                 |
| 11010014 | Suction tube set (1 connection), one-time use  |
| 11010015 | Suction tube set (2 connections), one-time use |
| 11010016 | Vacuum tube set, incl. filter, 30-day use      |

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12. Colon DA, Yoon BJ, Russell TA, Cammisia FP, Abjornson C, Assessment of the injection behavior of commercially available bone BSMs for Subchondroplasty procedures, The Knee, Vol. 22, Issue 6, Pages 597-603, Copyright 2015, with permission from Elsevier Benchtop data is not necessarily indicative of clinical outcomes.
13. Tofighi et al. Setting Reactions Involved in Injectable Cements Based on Amorphous Calcium Phosphate, Key Engineering Materials Vols. Pages 192-195 (2001) Benchtop and animal data is not necessarily indicative of clinical outcomes.

^Cell culture assays are not necessarily indicative of clinical outcomes.

\*As measured by WOMAC pain scores reported by patients continuing follow-up through 2 years (n = 22).

\*\*The grain size of the hydroxyapatite (HA) crystals that form as part of the amorphous and crystalline mixture of calcium phosphate sets are on the nanometer scale. The size of the crystalline structures were measured by x-ray diffraction to be less than 100 nanometers.

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