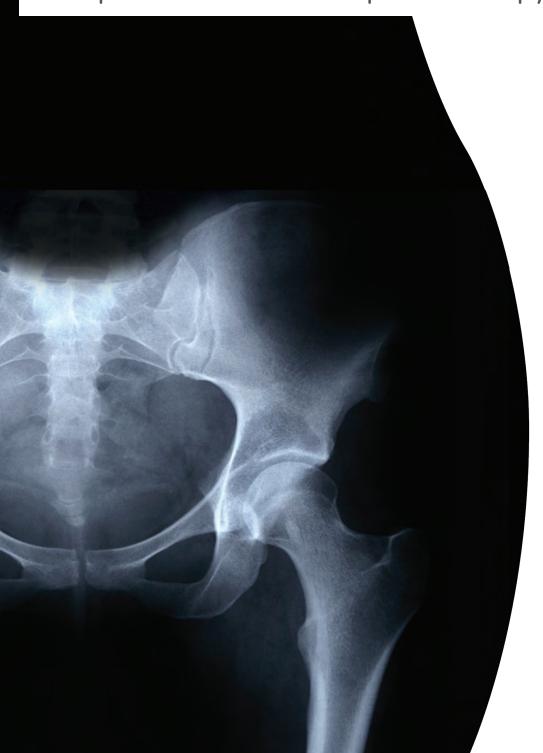


Complete Solutions for Hip Arthroscopy



Partnering with surgeons... Helping to improve lives

For over 150 years, Smith & Nephew has pioneered advancements in surgical techniques and instrumentation, including the development of instruments that facilitate minimally-invasive access to the joints. During the past 20 years, as leading surgeons began to explore the hip joint with arthroscopes, Smith & Nephew has worked together with them to develop the techniques and instruments at the forefront of hip surgery today.

As a result, Smith & Nephew has become the worldwide market leader in hip arthroscopy. In this everchanging, rapidly growing field, we are committed to leading the way – with advancements in technology and a firm focus on education. We back our products with a world-class education program that provides surgeons with access to lab-based courses and exposure to world leaders in the field. Our promise is to work with you to provide innovative solutions that help to improve lives.

INVENTURES Program

Have an idea for a new technique or instrument? Smith & Nephew's INVENTURES Program provides surgeons with the unique opportunity to collaborate with our engineers to explore the viability of new surgical techniques and instrumentation. Please contact your sales representative or visit our website at:

www.global.smith-nephew.com/us/INVENTURES to learn more.

Hip Arthroscopy Educational Video Library

The following educational videos are available to you. Please contact your Smith & Nephew sales representative to request a video or to learn more.

- Arthroscopic Labral Repair (technique animation) by Dr. Marc Philippon
- Hip Arthroscopy: Basic Principles and Advanced Techniques by Dr. J.W. Thomas Byrd
- Patient Selection, Physical Examination and Imaging of the Hip and Pelvis by Dr. Chris Larson

Patient Positioning

Hip Positioning System

The Smith & Nephew Hip Positioning System features an indispensable and convenient universal hip distractor for both lateral and supine patient positioning.

Exceptional Range of Motion

- Unique patented ball joint system
- Allows hip to be easily flexed, abducted or adducted



Simple

- Single lifting motion adjusts between extension and flexion
- Automatically locks in place after positioning
- Control knobs allow for fine and gross distraction adjustments

Portal Placement & Access

ARTHROGARDE Hip Access Cannulas

The high-strength, atraumatic design makes ARTHROGARDE Hip Access Cannulas ideal for hip arthroscopy.

- Unique, rounded ends provide a smooth surface to protect soft tissue
- High-strength design to prevent bending or wear and tear over time



ARTHROGARDE Slotted Cannula

This versatile and patent-pending cannula features:

- Rounded, smooth edges for optimal safety
- High-strength design for enhanced durability
- Ergonomic handle for easy maneuverability
- Angled profile



CROSSTRAC° Hip Guide System

Facilitates accurate trajectories, resulting in unparalleled, easy access to the hip joint.

- Unique, triangulated design and needle point accuracy facilitate consistent trajectory alignment and portal placement where you want it
- Use with our standard length 4 mm arthroscopes and our ARTHROGARDE Hip Access Cannulas for improved protection

J-SNAP Quick Release Irrigation Extender

The next-generation irrigation extender for hip arthroscopy.

- Specifically designed with a new secure connection mechanism
- Provides easy-to-use, snap-in locking mechanism to engage/ disengage between ARTHROGARDE° cannulas and bridge
- Once bridge is locked, improved flow dynamics and high flow rates ensure it will not release during rotational movements so you can operate with confidence



Single Use Accessories

Disposable Hip Pac

Pac includes

- 3 nitinol guidewires, 1.2 mm x 18"
- 2 arthroscopy needles, 17 gauge, 6"





Visualization

VideoArthroscopes

Extra-long, high-definition videoarthroscopes have a sealed scope design and easy one-handed light post rotation — making them ideal for hip arthroscopy.

- Available in 30° and 70° Direct View
- Compatible with a variety of camera heads



Example of Mayo Stand setup



Pathologies

Synovial Disease

DYONICS° EFLEX° Radiofrequency Probes* can deflect up to 100°, enabling access to areas of the hip joint that are otherwise difficult to reach with conventional rigid probes. The deflection of the tip is actuated by an easy-to-pull trigger system with an ergonomically designed handle and palm grip. The system further simplifies your procedure preparation with an integrated power cable, eliminating the need to purchase and re-sterilize separate cables. EFLEX probes are available for a wide array of applications.

- Flexible tip and multiple tip configurations facilitate hip joint access
- Extra-long shaft with low-profile diameter fits through 5.5 mm cannula



DYONICS' EFLEX' ABLATOR' Probe*

Delivering RF where you want it.

- Rounded convex tip for rapid tissue ablation and tissue smoothing
- Malleable shaft for added flexibility

Loose Body Excision

Smith & Nephew's ACUFEX° brand instruments offer superior performance – that's the ACUFEX handheld difference. A full line of ACUFEX punches, graspers, probes and knives have earned a worldwide reputation for optimal maneuverability, sharpness, precision and strength. All ACUFEX instruments are manufactured using the ACUFEX patented, pinless hinge design, ensuring unsurpassed strength and cutting efficiency.

ACUFEX PITBULL® and **ACUFEX Alligator Max Graspers**

ACUFEX handheld graspers provide

- Broad selection of procedure-specific tip configurations
- Maximum grasping capability
- Easy access





Labral Tears

Capsulotomy

Smith & Nephew's hip-specific instruments provide you with precision tools for performing capsulotomies.

smith&nephew Beaver Handle REF 72203308



BEAVER® Blade

- Disposable blade allows the surgeon to have a fresh sharp blade for every patient
- Ideal for capsulotomy, labral takedown and psoas tendon release

LIGAMENT CHISEL Hook Probe**

Monopolar hook shaped probe ideal for capsular resection.

Debridement

DYONICS* INCISOR* PLUS ELITE* Shaver Blade†

The DYONICS INCISOR PLUS ELITE Shaver Blade is now available in an extra-length curved version for hip arthroscopy. Like all DYONICS INCISOR PLUS ELITE blades, the hip version features an outer blade with sharp teeth for enhanced cutting and less tissue tearing.



Precisely sharpened

DYONICS 4.5 mm BONECUTTER® Blade†

Provides efficient and effective bone resection and soft tissue removal with one blade.

 Proprietary SURILLIUM^o coating reduces blade friction and maintains soft tissue cutting efficiency

DYONICS EFLEX LIGAMENT CHISEL*

Delivering RF where you want it.

• Designed for precise resection of dense, soft tissue such as the labrum



BEAVER® is a registered trademark of BVI

^{*}LIGAMENT CHISEL probes are used in conjunction with the Smith & Nephew VULCAN° Generator. For more information, please contact your sales representative or Customer Service at + 1 800 343 5717 (U.S.).

[†]DYONICS Blades and Burrs are used in conjunction with the Smith & Nephew DYONICS POWER and DYONICS POWER II Control Systems. For more information, please contact your sales representative or Customer Service at + 1 800 343 5717 (U.S.).

Pathologies

Labral Repair

Cannula System

CLEAR-TRAC° COMPLETE Disposable Hip Cannula System

Specifically designed for hip arthroscopy, the CLEAR-TRAC COMPLETE System gives you the visualization necessary during your repair procedure. The partially-threaded design permits easy insertion and provides excellent retention in the joint.

- Integrated triple-seal design
- Transparent body for easy visualization
- Reusable obturators





Suture Manipulation

Smith & Nephew ACUFEX° hand instruments for suture manipulation are extra-long for easier access to the hip. Ergonomic handles and extra-long working length is compatible with CLEAR-TRAC Cannula Systems.



ARTHRO-PIERCE XL



ARTHRO-ROUND XL



Suture Cutter XL



Suture Cutter Flush XL

ARTHRO-PIERCE® XL*

- Ideal suture passer with extra-long working length
- Enables suture passage through soft tissue

ARTHRO-ROUND XL*

- Ideal suture grasper with rounded beak
- Enables suture manipulation without tissue penetration

Suture Cutter XL*

- Ergonomic, easy to use and extra-long to access the hip joint
- Ideal for use with knotted suture anchors, this cutter leaves a tail of suture to ensure knot security

Suture Cutter Flush XL*

- Ergonomic, easy to use and extra-long to access the hip joint.
- Ideal for use with knotless suture anchors, this cutter will not leave a tail of suture

^{*} Included in the HIPSTRUMENTS Hip Arthroscopy Repair System.

Suture Anchors

Diverse anchors. Precise instruments. Strong results.

Smith & Nephew's family of suture anchors for hip repair offer an unparalleled breadth of choices in materials and sizes and with options for knotted and knotless repair devices.

BIORAPTOR® Knotless Suture Anchor

Easy to use, potentially time-saving approach to labrum repairs. Designed with an inner plug, the tension-ability and security of the sutures lie within the interior of the anchor allowing you to control anchor tension in labrum repairs after anchor insertion.

- Eliminates knot-tying
- Controlled, adjustable suture tension after anchor implantation

OSTEORAPTOR[°] 2.3 PLLA/HA and 2.9 PLLA/HA Suture Anchors

These knotted anchors incorporate the natural biocompatibility of hydroxyapatite (HA), a calcium phosphate similar to the mineral found in bone. They are available in sizes that allow you to position repairs precisely where you want them.

- Natural, biocompatible solution
- Preloaded with high-strength ULTRABRAID^o Suture

BIORAPTOR 2.3 PK Suture Anchor

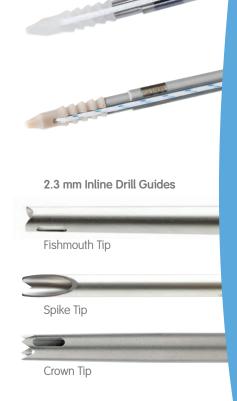
These knotted anchors offer the benefits of radiolucency with high-strength PEEK-OPTIMA® polymer from Invibio®.

- Small and easy to deploy
- Preloaded with high-strength ULTRABRAID Suture

Suture Anchor Instrumentation

Diverse anchors require specific instrumentation, that's why Smith & Nephew provides a variety of instruments to enable anchor placement where you want it.

- Drill guides
- Obturators
- Drills



Pathologies

Femoral Acetabular Impingements

CAM and Pincer Impingements

HIPSTRUMENTS Hip Arthroscopy Repair System

Smith & Nephew's full range of procedure-enabling hip instruments have been designed and sized for effectively addressing hip pathologies. HIPSTRUMENTS Hip Arthroscopy Repair System brings arthroscopic hip surgeons a robust offering of longer and stronger instruments than before.



Rasp XL

Elevator XL

introphy by

Microfracture Picks

Ideal for microfracturing when addressing chondral defects.

• Variety of angles (30°, 45° and 60°)

Curettes

Remove damaged cartilage and expose boney surface.

- 4.5 mm, open curette
- 6 mm, open reverse cut curette

Rasp XL

Create a bleeding bed in subchondral bone.

Elevator XL

Aids in managing and protecting soft tissue, especially during labrum mobilization.

Conveniently stored in a newly designed instrument tray, the HIPSTRUMENTS Hip Arthroscopy Repair System includes:

- 3 Microfracture Picks (30°, 45° and 60°)
- 2 Curettes (4.75 mm and 6 mm reverse cut)
- Suture Cutter XL
- Suture Cutter Flush XL
- Elevator XL
- Rasp XL
- Banana Blade
- ARTHRO-ROUND XL
- ARTHRO-PIERCE[®] XL
- Knot Pusher XL
- Crochet Hook



DYONICS* HIGH VISIBILITY Hip Burrs

New High Visibility Burrs all feature an outer, narrow-neck sheath that improves visualization of anatomical landmarks

- The unique Flat Top or end-cut design allows sculpting of the acetabular overhang, leaving a flat surface while still protecting the labrum
- The Abrader outer sheath edges have been rounded to help minimize damage to the surrounding tissues
- The Barrel Burr has a unique aggressive side-cutting, and gentle end-cutting, transitional flute design for refined resection in hip anatomy





Part Number	Description	
72201724	Supine Hip Positioning S	System
System includes		
72200626	Universal Hip Distractor w	ith Leather Boot
72200627	Knee Holder	
72201725	Supine Table Attachment	
72200631	Perineal Post	
72200632	Well Leg Holder with Leath	ner Boot
	Supine Single Use Dispo	sables
72200634	Perineal Post Pad (1)	
72200635	Boot Insert Pad (2)	
	Supine Replacement Par	rts
72200633	Replacement Leather Boo	t (1)
72201540	Replacement Straps (3)	
72200639	Replacement Pad for Patie	ent Transfer Board
72200630	Replacement Pad for Supi	ne Table Extension
	Supine Accessories	
72200637	Patient Transfer Board	
72200669	Storage Cart Supine/Later	ral Positioner
	Supine Rail Clamps	
72200636	U.S. Rail Clamps (2)	0.375 " \times 1.125 " (1 cm \times 2.9 cm)
72200670	Eur/U.K. Rail Clamps (2)	0.394" x 0.984" (1 cm x 2.6 cm)
		0.250 " $\times 1.50$ " (0.7 cm $\times 3.2$ cm)
72200671	Denyer Rail Clamps (2)	0.345 " $\times 1.26$ " (0.9 cm $\times 3.2$ cm)
72200672	Japanese Rail Clamps (2)	0.394" x 1.181" (1 cm x 3 cm)
72200673	Swiss Rail Clamps (2)	
	12	



Part Number	Description	
72201636	Lateral Hip Positioning S	ystem
System includes		
72200626	Universal Hip Distractor wi	th Leather Boot
72201364	Lateral Table Attachment v	vith Perineal Post Pad
	Lateral Accessories	
72200718	Replacement Lateral Perin	eal Post Pad (1) (Multi-use)
72200633	Replacement Leather Boot	: (1)
72201540	Replacement Straps (3)	
	Lateral Rail Clamps	
72200643	U.S. Rail Clamps (2)	0.375" x 1.125" (1 cm x 2.9 cm)
72200675	Eur/U.K. Rail Clamps (2)	0.394" x 0.984" (1 cm x 2.6 cm)
		0.250" x 1.250" (1 cm x 2.6 cm)
72200676	Denyer Rail Clamps (2)	0.250" x 1.50" (1 cm x 2.9 cm)
72200677	Swiss Rail Clamps (2)	0.394" x 1.184" (1 cm x 3 cm)



	SPIDER2 Limb Positioner
72203299	SPIDER2 Limb Positioner
72203300	Switch Drape, optional (case of 20)
72203301	Battery Pack
	SPIDER Limb Positioner
7210569	SPIDER Limb Positioner
	Hip Positioning Components
72201427	MAXI Traction Accessory
72201425	SPIDER Boot with Foam Insole
72201426	Boot Liners (case of 4)
	Fracture Table Adapters*
72202060	Maquet
72202061	OSI
72202062	Trumpf
	Semi-disposables
72201426	Boot Liner (4)
72201429	Replacement Foam Insole (4)

 $^{^{\}star}$ Adapters allow use with standard fracture tables including those on Maquet, Mizuho OSI, TRUMPF and Amsco

PORTAL PLACEMENT & ACCESS

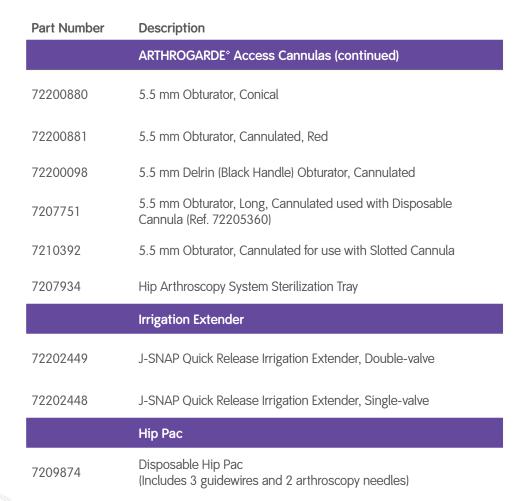
Part Number	Description
72201832	CROSSTRAC° Hip Guide System
System includes	
72201831	CROSSTRAC Hip Guide with Bullet
72201741	4.5 mm ARTHROGARDE° Cannula, Green
72201742	5.0 mm ARTHROGARDE Cannula, Blue
72200096	4.5 mm Cannulated Obturator with Delrin Handle
72200097	5.0 mm Cannulated Obturator with Delrin Handle
Sold separately	
72201811	Extra-Long Arthroscopy Needles (5)



	ARTHROGARDE Access Cannulas
72201741	4.5 mm ARTHROGARDE Cannula, Green (CROSSTRAC Hub)
72202003	4.5 mm ARTHROGARDE Cannula (Standard Hub)
72201742	5.0 mm ARTHROGARDE Cannula, Blue (CROSSTRAC Hub)
72202004	5.0 mm ARTHROGARDE Cannula (Standard Hub)
72201743	5.5 mm ARTHROGARDE Cannula, Red
72201590	Slotted Cannula
72200884	4.5 mm Obturator, Conical
72200885	4.5 mm Obturator, Cannulated, Green
72200096	4.5 mm Delrin (Black Handle) Obturator, Cannulated
72200882	5.0 mm Obturator, Conical
72200883	5.0 mm Obturator, Cannulated, Blue
72200097	5.0 mm Delrin (Black Handle) Obturator, Cannulated

Portal Placement & Access









ARTHROSCOPY & HAND INSTRUMENTS

	Part Number	Description
		Probes
	6900221	3 mm Probe
	7207760	3 mm Hip Probe, Long
		Switching Sticks
	3801	Switching Stick, 4.3 mm
-	6905019	Cannulated Switching Stick, 4.5 mm
		Knives
	72203307	BEAVER® 4.0 mm Blade, Disposable (6 Per Package, Sterile)
Australian Base Fluids 865 7200308	72203308	BEAVER Handle and Wrench, Reusable
	7210758	Banana Blade Knife
		Handheld Instruments
9	7207545	Rotary, 2.2 mm, Left Loop Handle
8	7207544	Rotary, 2.2 mm, Right Loop Handle
	7207735	Scoop, 1.5 mm, Upbiter

 $^{^{\}star}\,\mathrm{BEAVER}^{\circledast}$ is a registered trademark of BVI.

	Part Number	Description
		Handheld Instruments (continued)
	7207736	DUCKLING° Upbiter
	7207737	DUCKLING Upswept
	7207733	Narrowline Upbiter
L	7207734	Narrowline Upbiter, Curved Right
	7210730	STINGRAY® Backbiter Right
	7210731	STINGRAY Backbiter Left
	7207699	Grasper, Alligator Max
	7207700	Grasper, Cupped, 3.4 mm
	7207731	PITBULL° Grasper
	7207732	RAPTOR° Rongeur

RESECTION & RADIOFREQUENCY

	Part Number	Description
		Radiofrequency*
	72200683	DYONICS° EFLEX° ABLATOR° Probe
	72200682	DYONICS EFLEX LIGAMENT CHISEL® Probe
	72200681	DYONICS EFLEX TAC-S Probe
	7209646	LIGAMENT CHISEL Hook Probe
DYONICS'	7210438	GLIDER° Articular Cartilage Probe
	7209687	Split Electrode Pad
		DYONICS POWER Shaver Blades, 18 cm Working Length**
	7210979	4.5 mm Long BONECUTTER° (3 Per Package)
	72200414	4.5 mm Long, INCISOR° Plus ELITE (3 Per Package)
CHIN	72200494	4.5 mm Long Curved INCISOR Plus ELITE (3 Per Package)
	7205343	4.5 mm Long INCISOR (3 Per Package)
	7205341	4.5 mm Long Full Radius (3 Per Package)
	7205335	4.5 mm Long, Curved, Full Radius, Concave (3 Per Package)
	7205336	4.5 mm Long, Curved, Full Radius, Convex (3 Per Package)
	6900678	5.5 mm Long, Full Radius (3 Per Package)
		DYONICS POWER Shaver Burrs, 18 cm Working Length, Partial Hood**
	72203127	5.5 mm HIGH VISIBILITY Sheath ABRADER Burr (3 Per Package)
	72203128	4.0 mm HIGH VISIBILITY Sheath ABRADER Burr (3 Per Package)
-4.	72203129	5.5 mm HIGH VISIBILITY Sheath Flat Top Burr (3 Per Package)
	72203130	4.0 mm HIGH VISIBILITY Sheath Flat Top Burr (3 Per Package)
	72203131	5.5 mm HIGH VISIBILITY Sheath Barrel Burr (3 Per Package)
	72203132	4.0 mm HIGH VISIBILITY Sheath Barrel Burr (3 Per Package)
	72200080	4.0 mm Long Abrader (3 Per Package)
= 30	72200082	5.5 mm Long Abrader (3 Per Package)

^{*}Radiofrequency probes are used in conjunction with the Smith & Nephew VULCAN° Generator. For more information, please contact your sales representative or Customer Service at + 1 800 343 5717 (U.S.)

^{**}DYONICS Blades and Burrs are used in conjunction with the Smith & Nephew DYONICS POWER and DYONICS POWER II Control Systems. For more information, please contact your sales representative or Customer Service at + 1 800 343 5717 (U.S.).

REPAIR ANCHORS, INSTRUMENTS & CANNULAS

	Part Number	Description
		OSTEORAPTOR° Suture Anchors
	72201991	OSTEORAPTOR 2.3 Suture Anchor w/#2 ULTRABRAID° Suture, White
	72201992	OSTEORAPTOR 2.3 Suture Anchor w/#2 ULTRABRAID Suture, COBRAID-black
	72201993	OSTEORAPTOR 2.3 Suture Anchor w/#2 ULTRABRAID Suture, COBRAID-blue
	72202165	OSTEORAPTOR 2.9 Suture Anchor w/one #2 ULTRABRAID Suture, White
	72201994	OSTEORAPTOR 2.9 Suture Anchor w/one #2 ULTRABRAID Suture, COBRAID-blue
		BIORAPTOR° Suture Anchors
	72201541	BIORAPTOR 2.3 PK Suture Anchor w/#2 ULTRABRAID Suture, COBRAID-blue
	72201542	BIORAPTOR 2.3 PK Suture Anchor w/#2 ULTRABRAID Suture, COBRAID-black
	72201543	BIORAPTOR 2.3 PK Suture Anchor w/#2 ULTRABRAID Suture, White
		Drill Guides and Obturators for 2.3 mm Anchors
j	72201824	Twist Drill for 2.3 Anchor
	72201105	2.3 mm Inline Drill Guide, Fishmouth Tip
	72201110	2.3 mm Inline Drill Guide, Spike Tip
	72201111	2.3 mm Inline Drill Guide, Crown Tip
	72201107	2.3 mm Inline Obturator, Cannulated
	72201112	2.3 mm Inline Obturator, Trocar Tip
	72201106	2.3 mm Inline Obturator, Non-cannulated

REPAIR ANCHORS, INSTRUMENTS & CANNULAS (continued)

	Part Number	Description
		BIORAPTOR° Knotless
	72202397	BIORAPTOR Knotless Suture Anchor
		Drill Guides and Obturators for 2.9 mm and Knotless Anchors
	72201388	2.9 mm Inline Drill Guide, Spike Tip
	72201389	2.9 mm Inline Drill Guide, Fishmouth Tip
	72201390	2.9 mm Inline Drill Guide, Crown Tip
	72201391	2.9 mm Inline Drill Guide, Offset Fishmouth Tip
	72201392	2.9 mm Inline Obturator, Blunt Tip
	72201393	2.9 mm Inline Obturator, Cannulated
	72201394	2.9 mm Inline Obturator, Trocar Tip
-	72202404	Twist Drill for 2.9 mm Suture Anchor
		ULTRABRAID° High-strength Sutures
	72200886	ULTRABRAID #2 White Suture, 38", 10 Per Package, Sterile
	72200886	ULTRABRAID #2 COBRAID Suture, 38", 10 Per Package, Sterile



	ACCU-PASS° Disposable Suture Shuttles, #1 Monofilament 48" Included
7210423	ACCU-PASS 45°, Left, Sterile
7210424	ACCU-PASS 45°, Right, Sterile
7210425	ACCU-PASS 45°, Upbend, Sterile
7210426	ACCU-PASS Straight, Sterile
72200419	ACCU-PASS 70°, Upbend, Sterile
72201361	ACCU-PASS Monofilament, Size #1, Single Pack, Sterile, Box of 10
	CLEAR-TRAC° COMPLETE Hip Cannulas
72200439	CLEAR-TRAC 7.0 mm x 110 mm
72200436	CLEAR-TRAC 8.5 mm x 110 mm
72200440	CLEAR-TRAC 7.0 mm x 90 mm
72200902	CLEAR-TRAC 8.5 mm x 90 mm
72200424	CLEAR-TRAC FLEXIBLE 8.0 mm x 90 mm
70000445	Developed a Obdomeday 70 years of 110 years
72200445	Reusable Obturator 7.0 mm x 110 mm
72200442	Reusable Obturator 8.5 mm x 110 mm
72200446	Reusable Obturator 7.0 mm x 90 mm
72200913	Reusable Obturator 7.0 mm x 90 mm
72200899	Reusable Obturator 8.0 mm x 90 mm
	Fluid Seal Adapter
72200026	Fluid Seal Adapter



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INSTRUMENTS

	Part Number	Description
	72203228	HIPSTRUMENTS Hip Arthroscopy Repair System
	System includes	
	72202119	Microfracture Pick XL, 30°
	72202120	Microfracture Pick XL, 45°
	72202210	Microfracture Pick XL, 60°
	72202583	Open Curette XL, 4.5 mm
	72202584	Open Curette XL, Reverse Cut, 6.0 mm
	7210758	Reusable Banana Blade Knife
	72202628	Elevator XL
the property	72202629	Rasp XL
Con-	72202587	Knot Pusher XL

	Part Number	Description
	72203228	HIPSTRUMENTS Hip Arthroscopy Repair System (continued)
06	72202683	ARTHRO-PIERCE° XL
06	72202586	ARTHRO-ROUND XL
	72203052	Suture Cutter Flush XL
8 J	72202588	Suture Cutter XL
	7209145	Crochet Hook
	72202732	HIPSTRUMENTS Tray