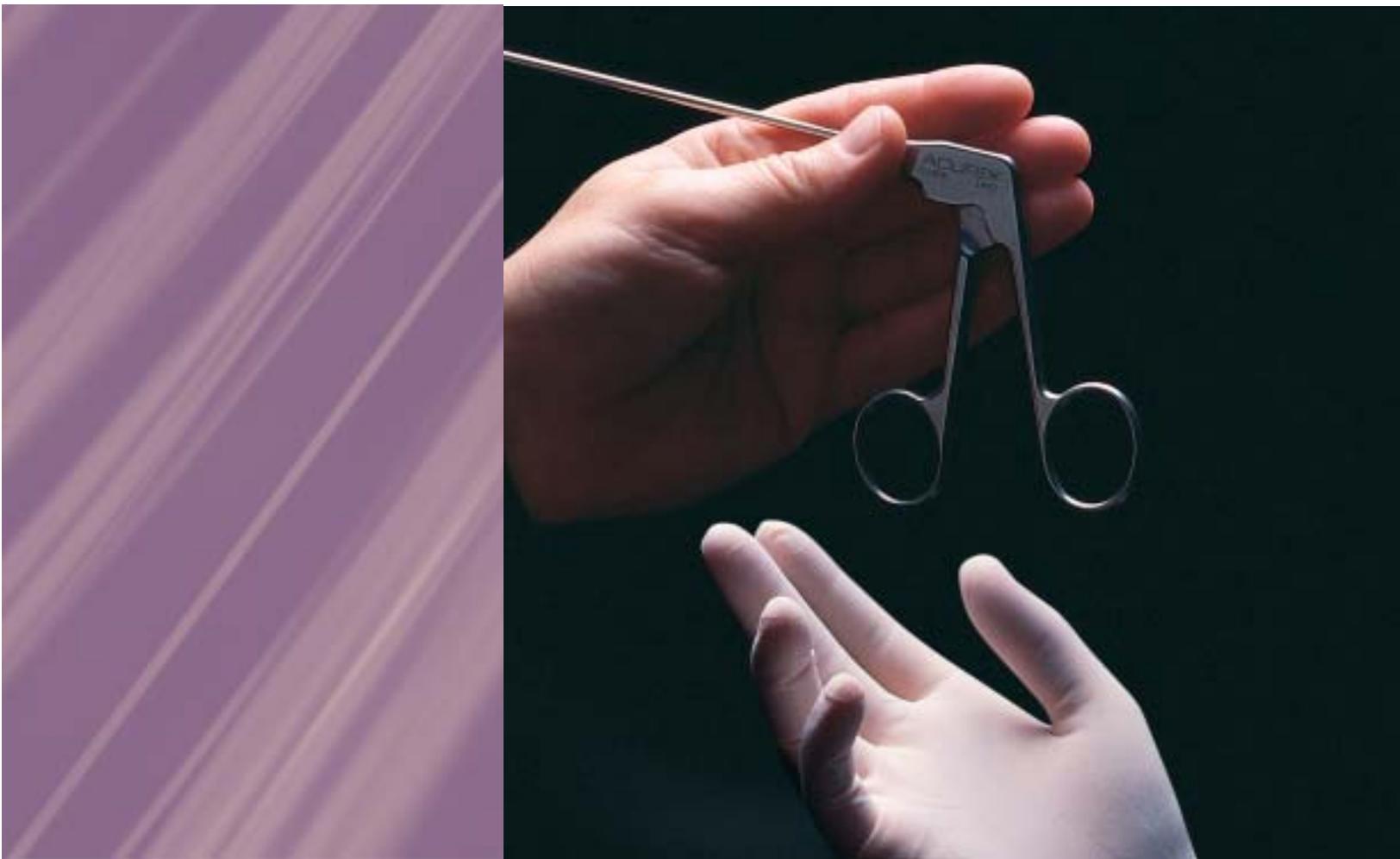


# Smith & Nephew Acufex® Hand-Held Instrumentation



From our skilled hands to yours®

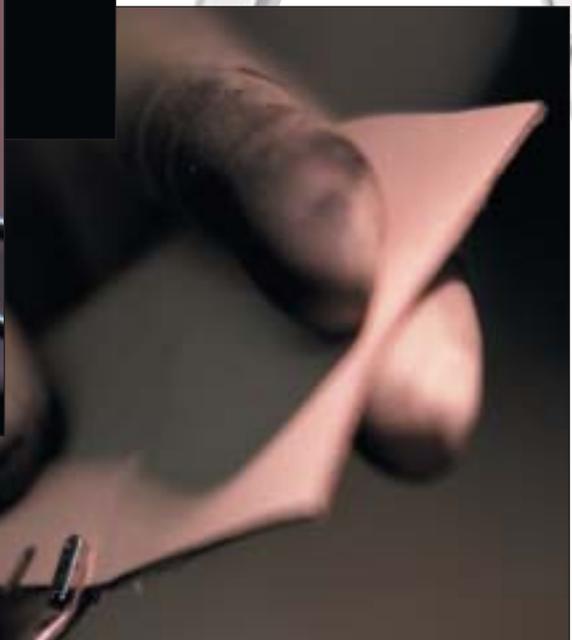
**Smith+Nephew**

## Hand-Held Instrument Guide

*Smith & Nephew is proud to present you with this reference guide for our entire line of arthroscopic punches, scissors and graspers.*

*Everything you need to equip yourself with the finest of hand-held instrumentation is contained on the following pages.*

*We hope you find this information useful in your efforts to provide your patients with the highest quality care.*



### The Acufex® Difference

In 1980, the Acufex brand of hand-held instruments was introduced and immediately set the standard for efficacy in arthroscopic surgery. Today, the Acufex name continues to be synonymous with the highest degree of dependability, durability and safety.

Our primary focus continues to be—and will always be—to produce the best arthroscopic tools available. Through innovative design, painstaking craftsmanship and an uncompromised commitment to advance the field we serve—Smith & Nephew offers a full line of punches, scissors and graspers that have earned a worldwide reputation for optimal maneuverability, sharpness, precision and strength. In short, Acufex brand instruments offer the surgeon—and the patient—the benefits of superior performance.

**That's the Acufex hand-held difference.**

### A Difference in Design

All Smith & Nephew Acufex instruments are created with the advantage of highly advanced Computer Assisted Design (CAD) technology. This allows us to “pre-test” various materials for strength and integrity within a computer simulated environment. Not only does this shorten development time, but it enables us to identify critical load factors on virtually every stress point of a new instrument.

### Strength and Safety Through Design

All Smith & Nephew Acufex instruments are designed with our exclusive Pinless Hinge. Specifically constructed to withstand force that can cause conventional, pinned instruments to break—this patented design enables the surgeon to perform the procedure with greater safety and confidence.

### Manufacturing Expertise

Breakthrough instrument designs are only as good as our ability to produce them. In fact, instruments this precise and customized simply can't be manufactured with off-the-shelf equipment. That's why Smith & Nephew not only designs the instruments themselves, but we also design the machines that make the instruments.

### A Difference in Craftsmanship

Smith & Nephew instruments are born from an unparalleled process that integrates state-of-the-art production techniques with precision hand craftsmanship. It is the fusion of science and art that has enabled us to achieve such a milestone as “The Acufex Edge®.” This proprietary sharpening process gives our cutting instruments the sharpest surgical edge possible. Others have tried to duplicate it. None have come close to achieving it.

Further enhanced by our unique tip design and tight construction tolerances, The Acufex Edge replaces “tearing cuts” with clean, scissor-like cuts for a faster, easier procedure with minimal tissue trauma.

But the difference that quality craftsmanship can make is perhaps best demonstrated by the smooth, tactile feel of every grasper, punch and scissor Smith & Nephew makes. No hand-held instrument has better tactile feedback or outperforms an Acufex instrument.



# Punches

Smith & Nephew offers a full line of quality Acufex® punches designed with a broad range of tips and configurations that allow easy access to specific areas of the meniscus. This enables the surgeon to choose the best instrument for any pathology. Each punch is constructed with our exclusive pinless hinge design, one-piece outer shaft and hand-honed edge to provide unrivaled strength, durability and sharpness.

## Duckling™ Family



Combining the wide bite horizontal cutting capability of the Duckbill with the thinnest possible tip, provides optimum maneuverability under the condyle and allows greater posterior advancement.

## Duckbill™ Family



The wave tooth design combined with a wide bite allows for the maximum amount of tissue to be smoothly resected in tight knees.

## Posterior Punch Family



The gradually tapered shaft, low profile tip, and short jaw design permit the tip to open wide for cutting in tight posterior compartments.

## Narrowline Family



The small aggressive tip design and narrow shaft provides excellent maneuverability and multiple plane cutting capability in the posterior horn of the meniscus in the tightest joint.

## Oval Punch Family



The lowest profile tip with the largest bite offers the most versatile instrument available. The curved saw design enables smooth contouring of the meniscus.

## Punches

### Basket Punches

- ▶ Duckbill Family
- ▶ Duckling Family
- ▶ Posterior Family
- ▶ Narrowline Family
- ▶ Oval Family
- ▶ Scoop Family
- ▶ 90° Rotary
- ▶ Stingrays
- ▶ Meniscal Elevators
- ▶ Blunt Nose

### Suction Punches

### Suture Punches

## 1.0 mm Scoop



The small size of this versatile punch combined with the horizontal cutting capability increases maneuverability where height is a limiting factor.

## 1.3 mm Scoop Family



The seven unique shaft configurations of the 1.3 mm punches allow maneuverability in difficult to access areas of the meniscus.



# Scissors and Graspers

Smith & Nephew Acufex® scissors are also constructed without pins for maximum strength, dependability, durability and safety. The precision crafted “Acufex Edge,” combined with the most stringent construction tolerances, virtually eliminate tearing cuts. A wide range of tips and angles enable the surgeon to effectively dissect any part of the meniscus from virtually any direction. Acufex scissors are available with loop and rotary handles. Acufex Graspers feature an “infinite position” sliding-lock mechanism that holds tissue firmly without tearing or slipping –even in the tightest of areas. A broad selection of procedurally specific

tip configurations provides maximum grasping capability and allows easy access to all areas of the meniscus from a variety of approaches. Constructed with our pinless hinge design and the finest quality materials, Acufex Graspers are world renowned for unparalleled strength and reliability.

Description Family	Tip Profile	Bite Width	Tip Width
Grasper, 2.7 mm	2.66 mm	N/A	3.05 mm
Grasper, 2.7 mm Up	2.66 mm	N/A	3.05 mm
Grasper, Allig. Max	3.17 mm	N/A	3.45 mm

## Rotary Scissors

### 60° Hooked, Left and Right



These scissors are ideal for manipulation of tears in all aspects of the meniscus due to its unique sideways cutting action and ability to fit into tight areas.

### 20° Hooked, Left and Right



The 20° angle follows the natural contour of the meniscus, while the small hook teeth enable the surgeon to probe before determining the final cut.

### 20° Short Serrated Left and Right



This is the overall workhorse of the scissor line when successive cuts are needed because the short tip allows more accessibility in the joint and affords more precision and control.

## Graspers

### Cupped Grasper



The wave design allows for expansion of meniscus into the grasper cups to ensure a firm non-sliding grip.

### Alligator Grasper



The small size and shaft configurations of the alligator grasper allows easy access to tight areas, while the serrated tip design prevents the meniscus from sliding out of the jaws.

### Raptor™ Rongeur



This rongeur, designed specifically for arthroscopic surgery, enables the cutting and removal of tissue. Particularly useful in ACL surgery.

### Atraumatic



The atraumatic wave tooth tip provides the security for soft tissue grasping under tension.

### PitBull®

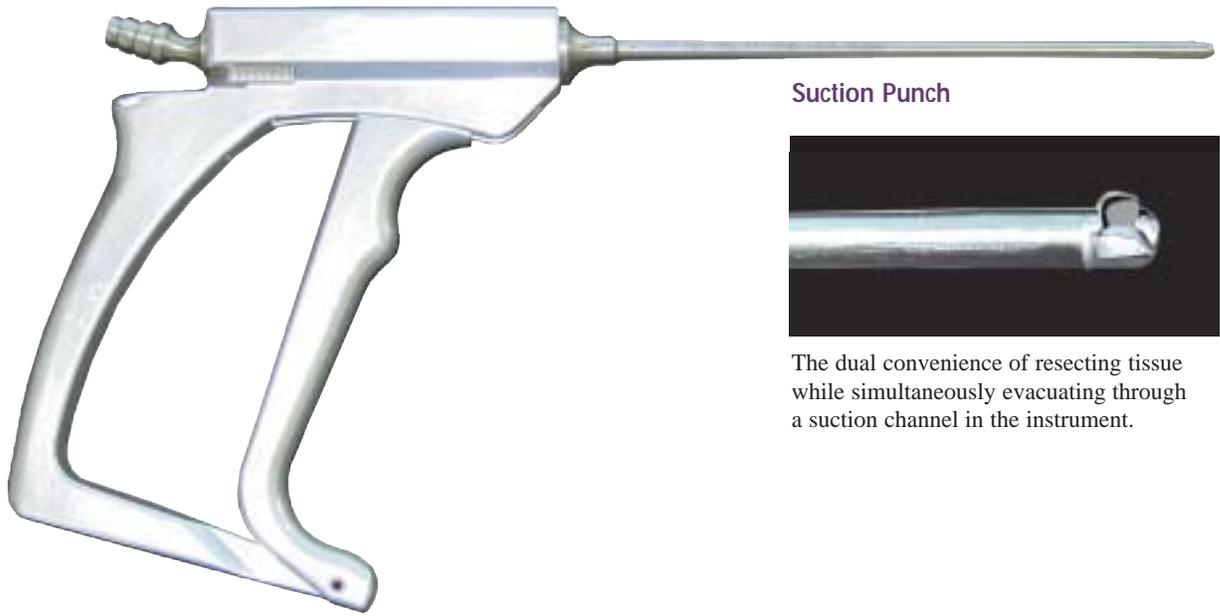


The unique serrated tooth design of the PitBull results in unsurpassed grasping strength for loose body removal or large meniscal fragments.

#### Graspers:

- » Cupped
- » Alligator
- » Rongeur (Raptor)
- » Atraumatic
- » Loosebody Forceps (Pitbull)

## Suction Punch



Suction Punch



The dual convenience of resecting tissue while simultaneously evacuating through a suction channel in the instrument.

## Suture Punch



Suture Punch



Combining unprecedented simplicity with the advantages of using braided suture, resulting in fast and sure suturing in common shoulder repair procedures—Rotator Cuff and Bankart repairs.

## Small Joint Instruments

*This instrument range was specifically designed with the additional challenges of smaller joints in mind. The shorter shafts and lower profiles offer good access in the elbow and wrist and, in particular, are ideal for ankle arthroscopy.*



**Blunt Nose Jr., Punch**



This punch allows the trimming of tissue flush to other structures with the low profile jaw offering maximal maneuverability.

**PitBull® Jr., Grasper**



Ideal for loose body removal, particularly in the ankle. The wide jaw opening is maximized, even in this smaller version.

**Small Joint Grasper**



With the alligator style jaw, this grasper will ensure a firm grip on soft tissue, with the strength of a full size instrument.

**Raptor™ Jr., Punch**



As with its grown up counter part, the Raptor Jr. enables the trimming of articular cartilage and removal. Additionally, it is a useful biopsy tool.

## Micro Instruments

*Micro instruments are designed to provide maximum grasping, resecting capability and excellent maneuverability for easy access to tight small joints (wrist, elbow and ankle). All feature pinless hinge design for unparalleled strength and reliability.*

Description	Tip Profile	Bite Width	Tip Width
MicroGrasper, Str	Taper to 1 mm	N/A	Taper to 1.75 mm
MicroGrasper, Up 10°	Taper to 1 mm	N/A	Taper to 1.75 mm
MicroPunch, Str	2.0 mm	1.25 mm	2 mm
Teardrop Punch, R	1.35 mm	2.25 mm	3.5 mm
Teardrop Punch, L	1.35 mm	2.25 mm	3.5 mm
Suction Punch	2.5 mm		

**2.5 mm Suction Punch**



**Teardrop punch, Right**



**MicroPunch, Straight**



**MicroGraspers, Straight**



**Teardrop punch, Left**



**MicroGraspers, Up 10°**



## Shoulder Instruments

### Elite™ Premium Shoulder Instruments

*The Elite Premium Shoulder Instruments offer the surgeon comprehensive flexibility in arthroscopic and mini-open shoulder repairs, such as rotator cuff and Bankart repair.*

Elite Predator Tissue Grasper



Elite Combination Tissue/Grasper



Elite Suture Manipulating Grasper



Elite Sliding Suture Cutter



Elite Double Hook Suture Scissors



### Arthro-Pierce™ Premium Instruments

*Single step suture passage is made simple with Arthro-Pierce Premium Instruments. The low profile, highly sharpened tip allows easy passage through tissue in order to retrieve or apply suture.*

Arthro-Pierce Instrument Straight



Arthro-Pierce Instrument 45° Right



Arthro-Pierce Instrument 45° Left



Arthro-Pierce Instrument 35° Up



### Capsular Release

*The geometry of these instruments will assist you in complete arthroscopic capsular release as a treatment for frozen shoulder. The extended nose of the instruments allow blunt dissection between the capsule and surrounding musculature.*

*(Please allow 4 weeks delivery for these special items)*

Capsular release, Straight



Capsular release, Upbiter



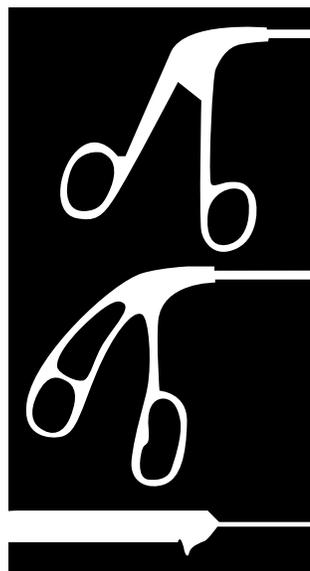
Capsular release, Upswept





## Ordering Information

Name	Description				
	Straight	Upbiter	Left	Right	Upswept
<b>Suction Punches</b>					
Suction Punch 2.5mm	3499				
Suction Punch 5.2 mm	2685				
Suction Punch 3.4 mm	2707				
Suction Punch 4.5 mm 90°			3196	3197	
<b>Suture Punches</b>					
Suture Punch*	7207035				
<b>Junior Instruments</b>					
Raptor™ Jr., Punch	014843				
Blunt Nose Jr., Punch	014844				
PitBull Jr., Grasper	014845				
Small Joint Grasper	013219				
<b>Micro Instruments</b>					
MicroGraspers	7207598				
MicroGraspers 10°		7207599			
MicroPunch	7207600				
Teardrop Punch			7207602		
Teardrop Punch				7207601	
<b>Elite Premium Instruments</b>					
Elite Predator Tissue Grasper	7209493				
Elite Suture Manipulating Grasper	7209494				
Elite Combination Tissue/Suture Grasper	7209495				
Elite Double Hook Suture Scissor	7209492				
Elite Sliding Suture Cutter	7209492				
<b>Arthro-Pierce</b>					
Arthro-Pierce	7209496				
Arthro-Pierce 45°			7209498	7209497	
Arthro-Pierce 35°		7209499			
<b>Capsular Release</b>					
Capsular Release	7207539	7207540			720541



### Handle Selectors

**Loop**—All Acufex® basket punches, scissors and graspers feature our loop-style handles.

**Acufex Pro**—Selected punches, scissors and graspers feature this ergonomic handle design.

**Cigar**—Available on Rotary Basket Punches and Scissors.



### Shape Selectors

**Straight**—The primary style for a direct approach.

**Upbiter**—Angled at a tip for increased access especially to the posterior meniscus.

**Upswept**—Angled shaft follows the contour of the condyle and keeps the cutting surfaces parallel to the tibial plateau.

**Left and Right**—Angled to reach the anterior and posterior meniscus.

#### \* Available Acufex Suture Needles:

**7207034** Acufex Single-Armed Suture Needles (1 needle), USP #1, 36" (91 cm), box of 12

**7205539** Acufex Double-Armed Suture Needles (2 needles), USP #2, 36" (91 cm), box of 12

*\*For additional made to order hand instruments refer to the Smith & Nephew 2002 Product Catalog*

## Warranty

Acufex® Hand-Held Instruments from Smith & Nephew, Inc. are warranted to be free from defects in material and workmanship for their lifetime against failure in normal use. Modifications or repairs done by persons not specifically authorized by Smith & Nephew will void this warranty. In no event shall Smith & Nephew be liable for any anticipated or lost profits, consequential damages or loss of time incurred by the buyer as a result of the purchase, repair, or use of this equipment.

Acufex Duckbill, Duckling, Raptor and PitBull are covered by the following US Patent number: 4,712,545.  
Stingray is covered by the following US Patent number: 5,571,131.  
Acufex Pro is covered by the following US Patent number: Des. 357,980.

Acufex, The Acufex Edge, Stingray, PitBull, and From our skilled hands to yours are trademarks of Smith & Nephew, Inc. Reg U.S. Patent and Trademark office.  
Acufex Duckbill, Acufex Pro, Duckling, Raptor, Elite, and Arthro-Pierce, are trademarks of Smith & Nephew, Inc.

# Smith+Nephew

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