



 Sontec Instruments®

ORTHOPEDIC

Dear Customer,

Sontec Instruments, Inc. is a family owned & operated medical company, providing personalized service featuring the finest in surgical instrumentation for over half a century.

Our surgical instruments encompass the entire human anatomy including specialty products specific to small and large animal surgery.

Owner of Sontec Instruments, Dennis Russell Scanlan III and his sons, Johann, Stefan and Angus Scanlan bring with them a lifetime of experience creating the highest quality products made by the world's leading manufacturing facilities featuring, cutting edge robotic technology, handmade workmanship combined with an understanding how to make exactly what our valued customers have come to expect.

Dennis R. Scanlan, III President & CEO and his wife Caron C. Scanlan thank you, for the opportunity to present our specialty Ophthalmology catalog.

Sincerely,



Dennis Russell Scanlan III

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## IMPORTANT INFORMATION

### Guarantee & Repairs Policy

Sontec® surgical instruments are guaranteed to be free of defects in materials and workmanship. Any Sontec® instrument that is defective will be repaired or replaced at our discretion. Instruments not properly cared for, used for unintended purposes, or beyond their designed capacity will not be covered under this guarantee. Our liability under this guarantee is limited to the repair or replacement of the defective merchandise.

Sontec® has its own repair department where most mechanically functional instruments can be returned to like-new condition.

Sontec® performs a variety of repairs, such as replacing worn TC jaws or sharpening scissors. In addition, we complete a comprehensive evaluation of your instruments to determine if further service is required.

For repair service, please send the following directly to the address below:

- Instruments clean, sterilized, securely wrapped and carefully packaged.
- Purchase and/or repair order
- A note with contact and shipping information
- Sending multiple items eliminates \$50 minimum charge

### Return Policy

The return of new, unused instruments in their original packaging is accepted within 30 days of purchase with an authorized "Return Merchandise Authorization". Please contact Sontec directly by phone or email with your invoice or proof of purchase in order to obtain your RMA slip and instructions. Restocking fee applies and credit will not be issued for shipping charges or handling fees. Proper credit is not guaranteed without an RMA. Custom, Special Order or Modified items are non-returnable.

Sontec Instruments, Inc.  
Toll free: 800.821.7496  
Local: 303.790.9411  
returns@sontecinstruments.com

### Remember

Sontec® offers other catalogs for a variety of surgical instrumentation, including:

- Alligator, Grasping, & Biopsy Forceps
- Avian & Exotic
- Bandage Scissors
- Cardiovascular & Thoracoscopic
- Caspar & Cloward Retractor Systems
- Colon & Rectal
- Cranial Cruciate Ligament Lateral Suture

- System
- Equine (Arthroscopic)
  - Eye
  - Neurology & Orthopedic
  - Orthopedic & Arthroscopic
  - Urology
  - Veterinary Dental
  - Veterinary Eye
  - General Veterinary Instrumentation

Also, if you do not find what you are looking for, please contact us.

### Instrument Care

Designed and crafted to exacting specifications, surgical instruments will perform for a number of years, provided they are maintained correctly and used for their intended purpose. A strict maintenance schedule will help reduce the need for premature replacements, thus cutting costs. For proper safeguarding of surgical instruments, please read and share the following information.

- Never substitute sterilization for cleanliness
- Wash brand new instruments prior to the first sterilization
- Remove saline solution, bleach, blood and tissue from instruments quickly and thoroughly
- Always use distilled water for cleaning instruments
- Never use saline solution for cleaning instruments
- Prevent cross-corrosion by separating corroded instruments from other instruments
- Never autoclave econo-grade stainless with superior-grade stainless.
- Always autoclave instruments with box lock open to alleviate pressure at the joint and to prevent fracture
- Lubricate joint and box lock after cleaning with an anti-microbial, water soluble lubricant
- Protect the tips of delicate instruments with protective covers (see page a.)
- Never use an instrument for anything other than its intended use

### Additional Safeguarding Guidelines

#### Scissors and Other Blades

- Perform routine inspections for sharpness, as a blade becomes duller with each stroke (all operating and Mayo scissors should be able to cut through four layers of gauze)
- When blades no longer cut without an excessive amount of force, please return them to Sontec® for sharpening
- The more often a blade is sharpened, the longer it tends to last

#### Needle Holders

- Repair is necessary when needle holder no longer securely holds needle when locked on the second ratchet tooth, and needle turns easily by hand

### Please Note

- We are not responsible for typographical errors in this catalog
- Instruments pictured in this catalog may or may not be to size
- Variations and changes in instrument design are possible
- Pricing is subject to change without notice
- Delivery schedules may vary from original estimates
- Some items are for veterinary use

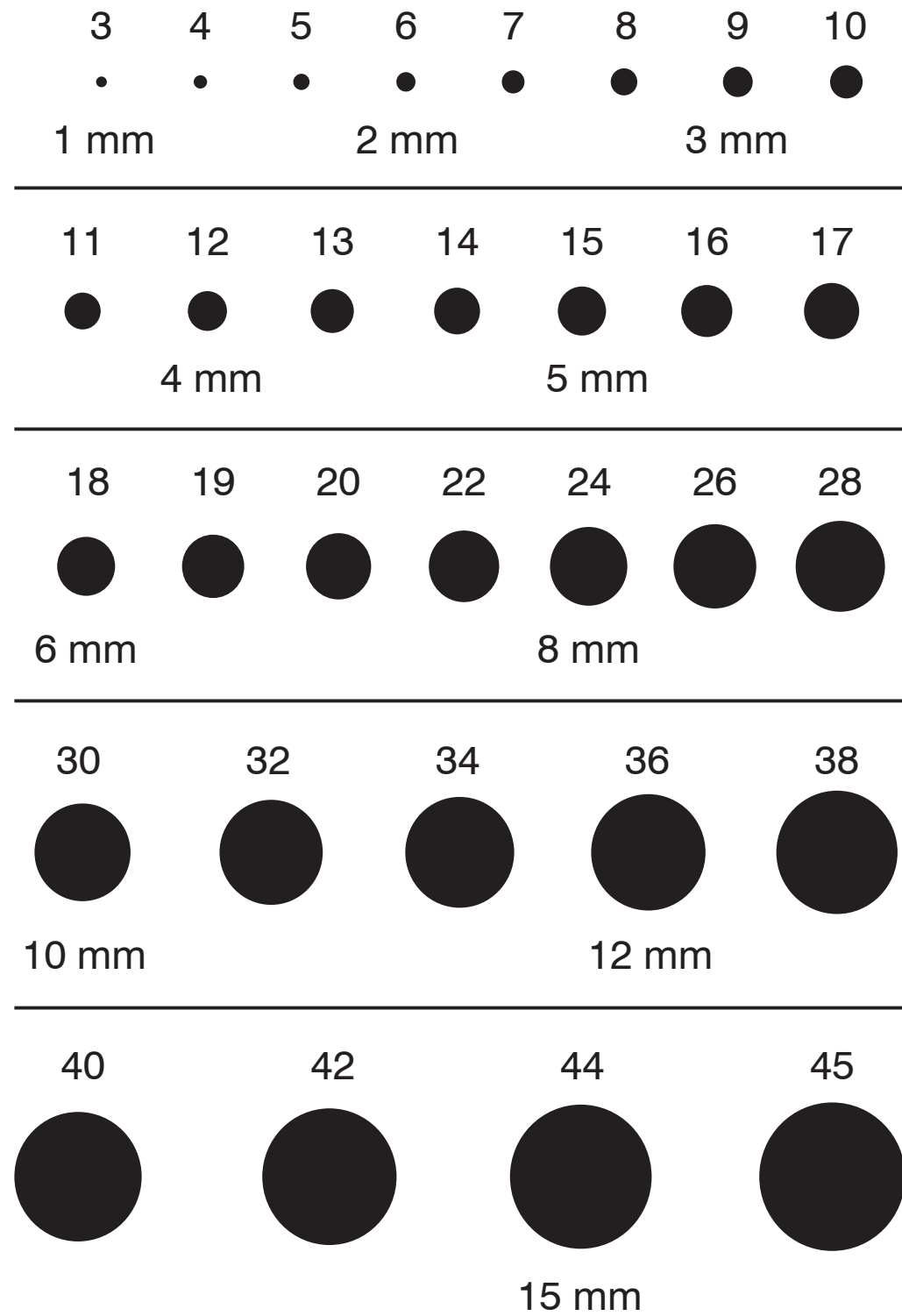
### Contact Info

Sontec Instruments, Inc.  
7248 South Tucson Way  
Centennial, Colorado 80112, USA  
Toll free: 800.821.7496  
Local: 303.790.9411  
service@sontecinstruments.com  
www.sontecinstruments.com

## Troubleshooting Guide

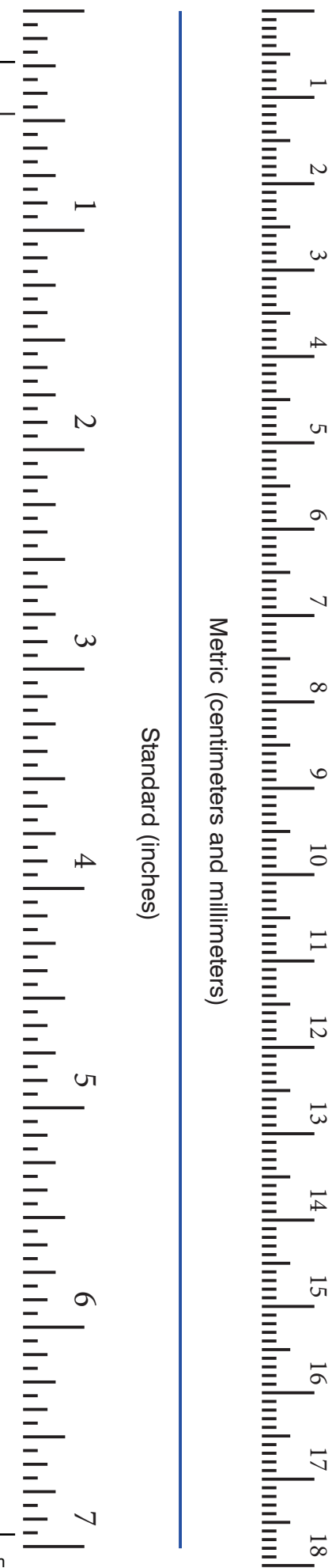
Problem	Cause	Solution
Rust	Worn chrome plating on brass instruments	Be aware of plating condition and remove from service when wear is visible.
	Cross-corrosion from carbon instruments to stainless steel	Keep carbon steel and stainless steel instruments separated during cleaning and sterilization.
	Low grade instruments may not have been passivated	Remove from service.
	Autoclave not operating properly	Clean and thoroughly flush water lines in sterilizer according to manufacturer's instructions. Only use distilled water, never tap water, to generate steam.
	Organic matter left on instrument after surgery	Remove all blood and tissue before drying. Use distilled water and a nylon brush to clean hard to reach areas.
Pitting	Prolonged exposure to corrosive chemicals and/or organic substances	Only use approved cleaning and sterilization solutions. Thoroughly rinse and dry instruments.
Orange / Brown Stains	Contaminated sterilizer, high alkaline detergent, cold disinfectants	Clean sterilizer. Use neutral pH solutions. Thoroughly clean, rinse, and dry instruments.
Bluish Black Stains	Mixing dissimilar metals during cleaning and sterilization	Separate carbon steel, aluminum, and stainless steel instruments.
Rainbow - olored Stains	Chromium oxide stain-result of excessive heat	Send in for polishing and hardness check.
Cracked Box Lock	Excessive force, sterilized in the closed position	Replace the instrument.
Cracked Jaw on Pin Cutter	Cutting pin at tip of jaws	Replace the instrument. Cut pin in center of jaws.

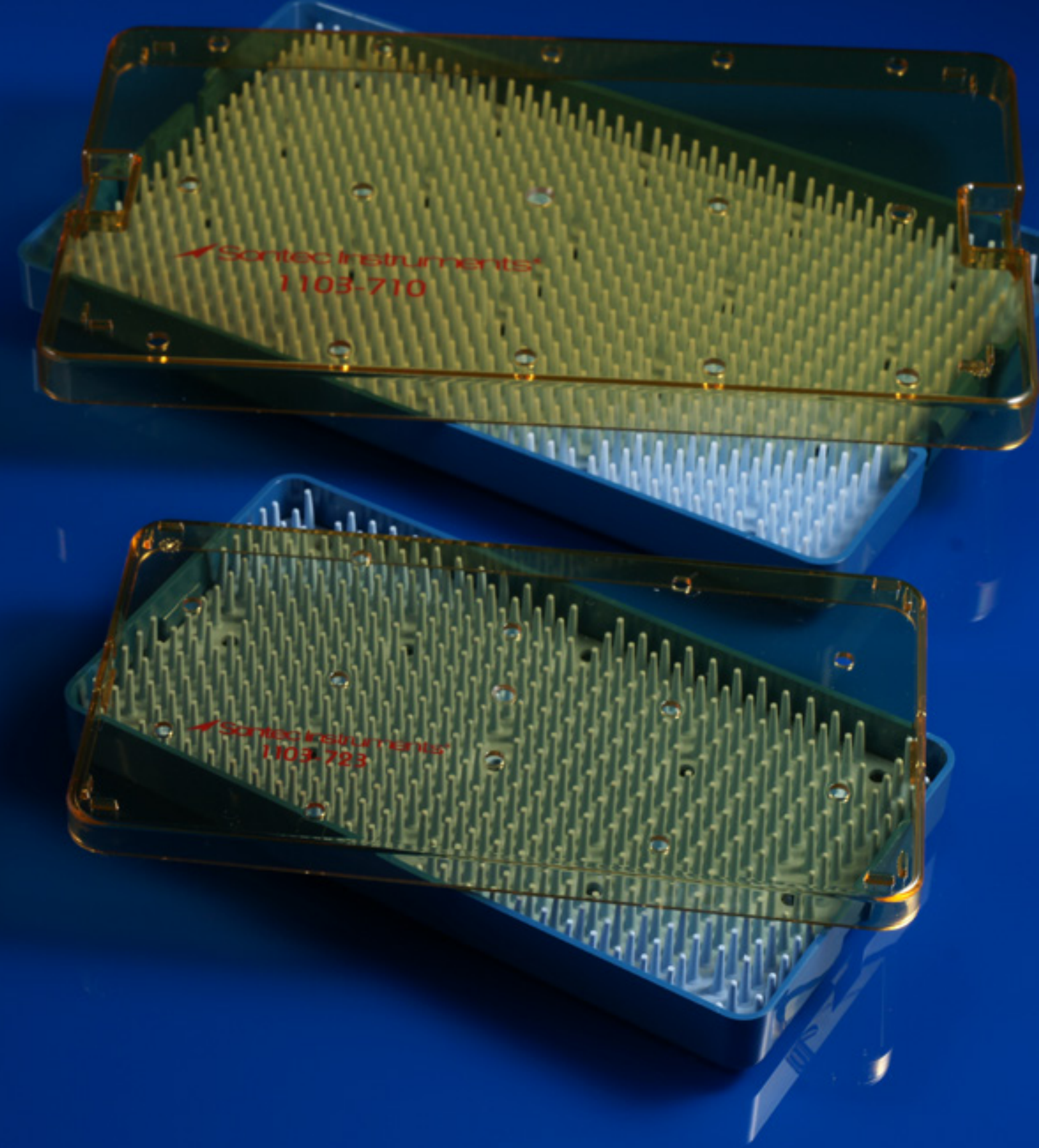
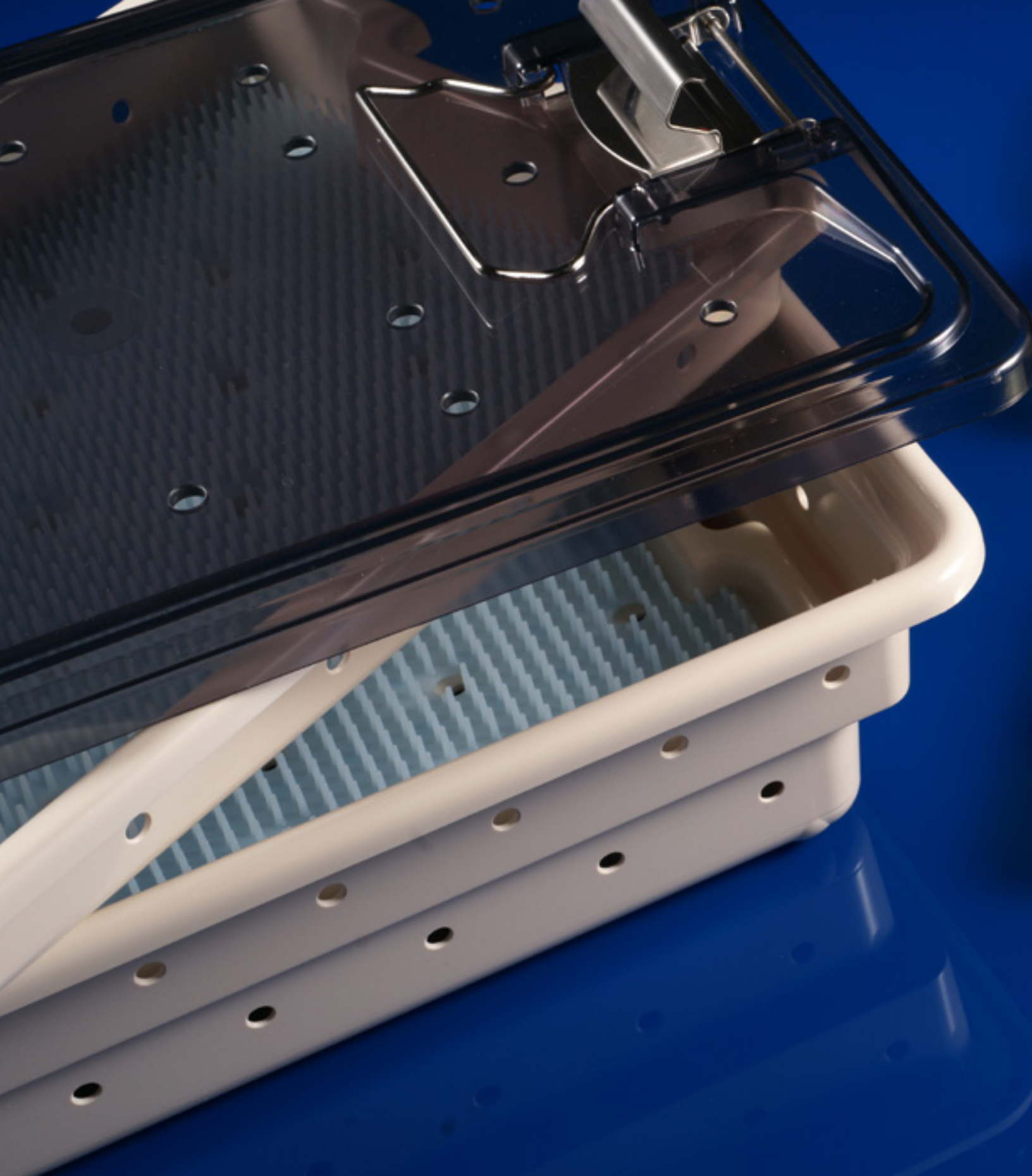
Conversion Table



Conversion Table

Multiply	By	To Obtain
Millimeters	0.1	Centimeters
Millimeters	0.03937	Inches
Centimeters	0.3937	Inches
Centimeters	0.01	Meters
Centimeters	10	Millimeters
Inches	2.540	Centimeters
$1/8'' = 3.175$ millimeters		
$1/4'' = 6.350$ millimeters		
$3/8'' = 9.525$ millimeters		
$1/2'' = 12.70$ millimeters		
$1'' = 25.40$ millimeters		





 Sontec Instruments®  
STORAGE CASES & CLEANING

**Metal Micro Instrument Tray**

Single level / includes pin mat and retainers

- 18-3519 10" x 10" x 1.5" (25.5 cm x 25.5 cm x 4 cm)
- 18-3510 10" x 15" x 1.5" (25.5 cm x 38 cm x 4 cm)

\* Instruments not included



18-3519



18-3510

**Metal Micro Instrument Tray**

Double level / includes pin mat and retainers / instruments not included

- 18-3505 10" x 10" x 3" (25.5 cm x 25.5 cm x 8 cm)
- 18-3515 10" x 15" x 3" (25.5 cm x 38 cm x 8 cm) short tray / full height

\* Instruments not included



18-3505



18-3515

**Metal Micro Instrument Tray**

Double level / includes pin mat and retainers

- 18-3520 10.5" x 15" x 2.5" (26.5 cm x 38 cm x 6.5 cm) long tray / half height
- 18-3525 10" x 19.5" x 2.5" (25.5 cm x 49.5 cm x 6.5 cm) short tray / full height
- 18-3530 10.5" x 19.5" x 2.5" (26.5 cm x 49.5 cm x 6.5 cm) long tray / half height

\* Instruments not included



18-3520



18-3525



18-3530

**Rhoton Instrument Tray**

**Stainless steel tray**

1103-708

\* instruments sold as complete set  
\* or can order individually / separate



**Rhoton Instrument Tray**

**Stainless solid**

1103-709

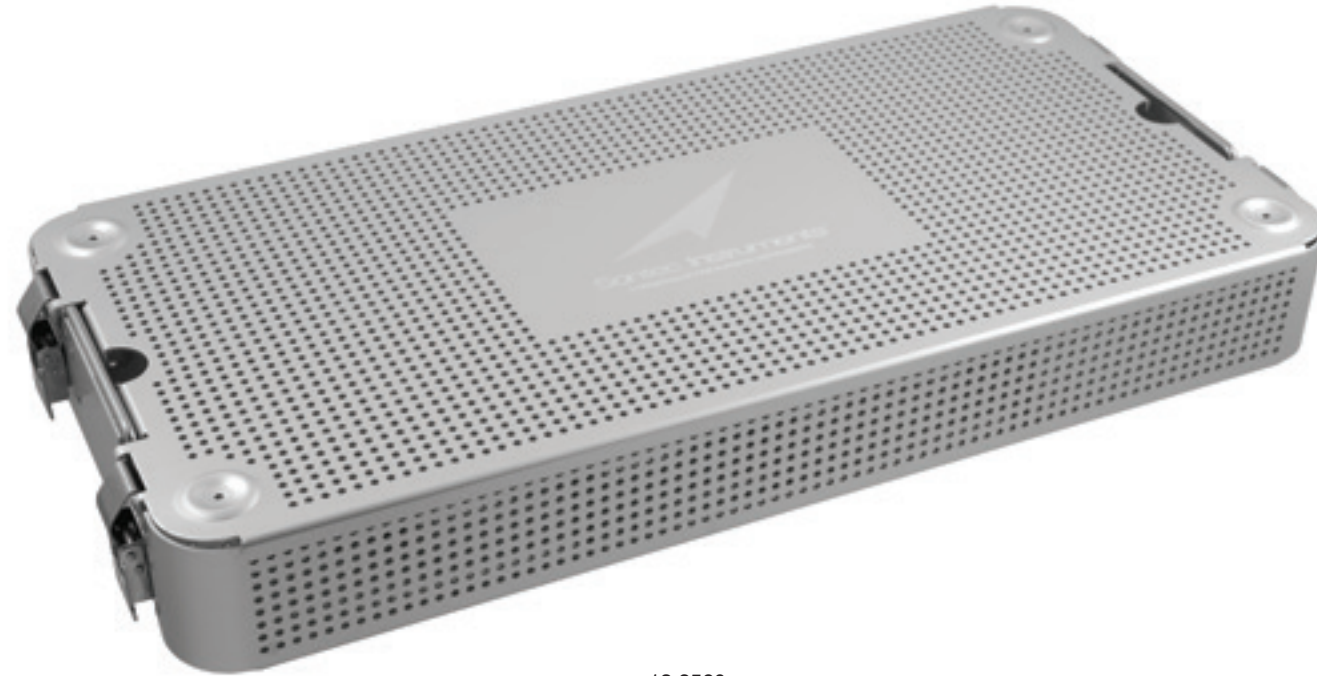
\* instruments sold as complete set  
\* or can order individually / separate



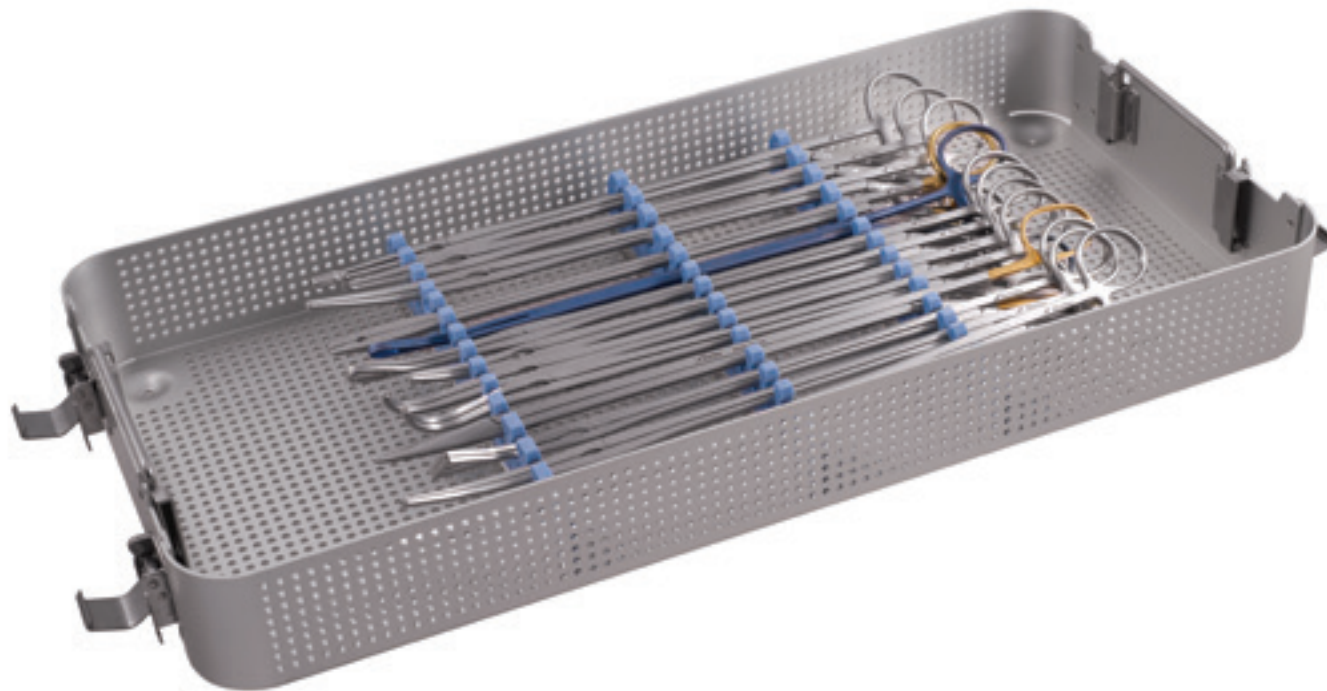
**Universal Surgery Tray**

10" x 21.5" x 2.5" / with lid / universal  
keyhole brackets

18-3560



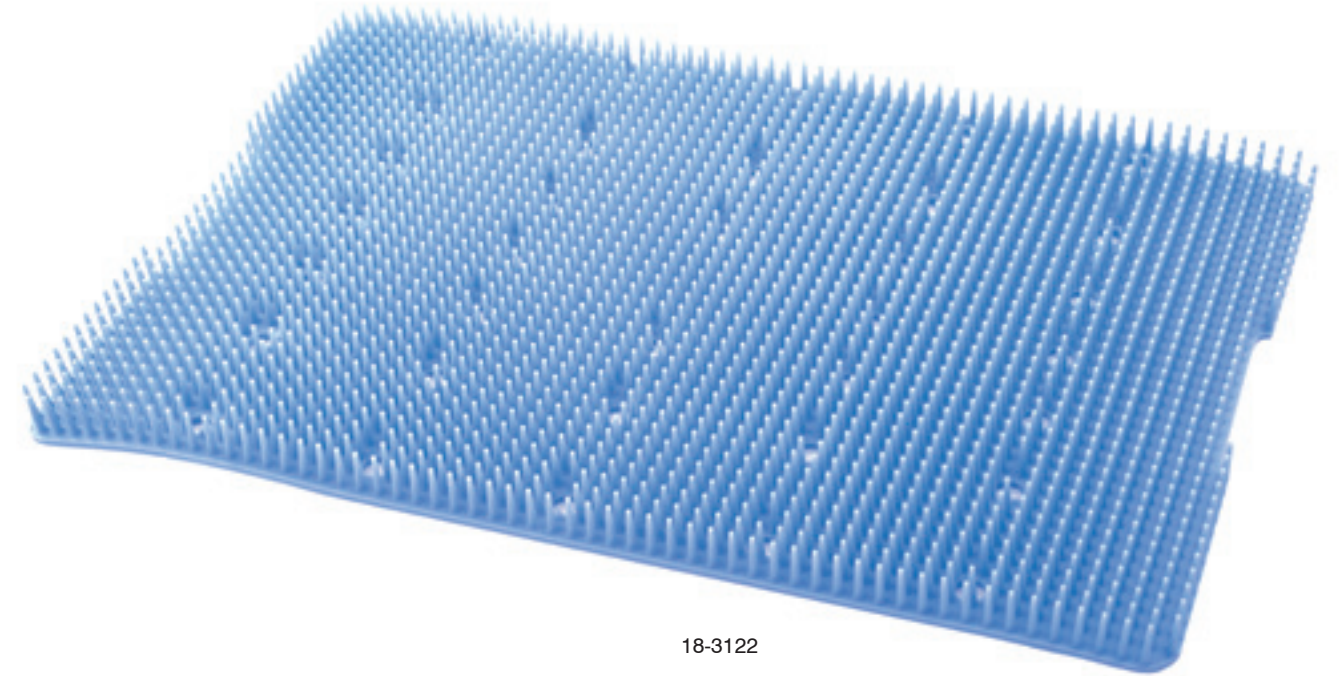
18-3560



**Silicone Mat**

For instrument trays / cut to size /  
autoclavable

- 18-3120 18" x 13" (46 cm x 33 cm) with holes
- 18-3121 10" x 6" (25.5 cm x 15 cm)
- 18-3122 10" x 15" (25.5 cm x 38 cm)
- 18-3123 13" x 18" (35.5 cm x 48.5 cm)



18-3122

**Universal Kerrison Klick Rongeur Tray for Set**

18-3564 tray for the set

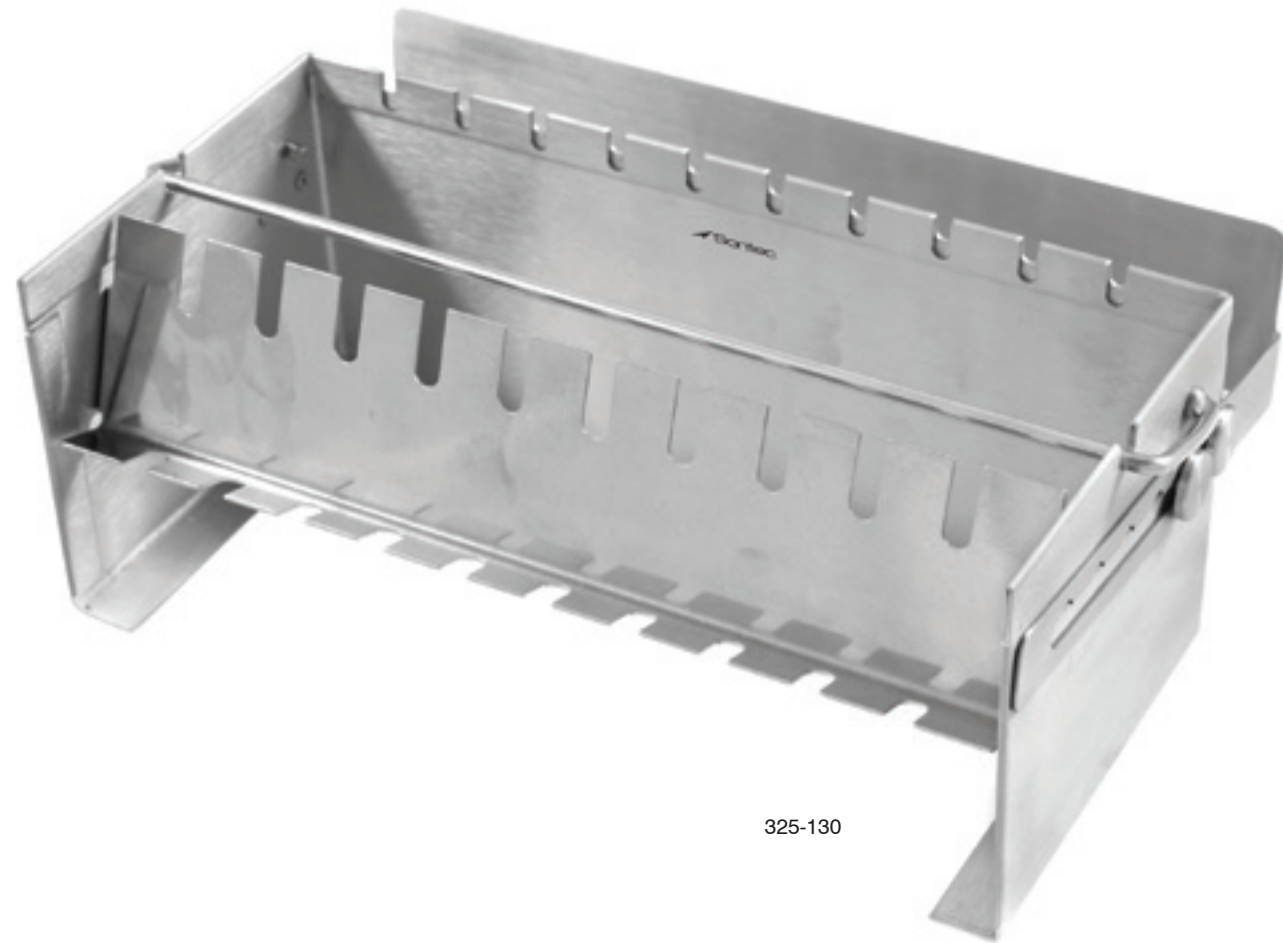
To configure you own personalized set, refer to "Kerrison Section" > "Kerrison Universal Rotating 360° Rongeur" for all possible options

\*different size shafts available up request



**Alligator Sterilizing Rack**

3.5" x 3" x 7.5"  
325-130

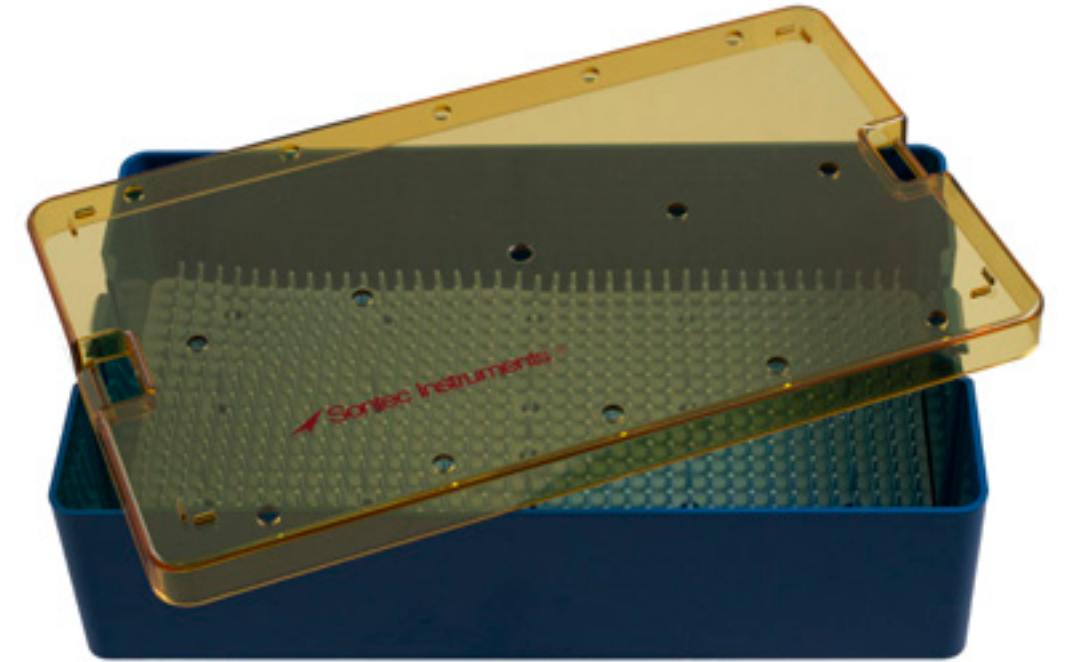


325-130

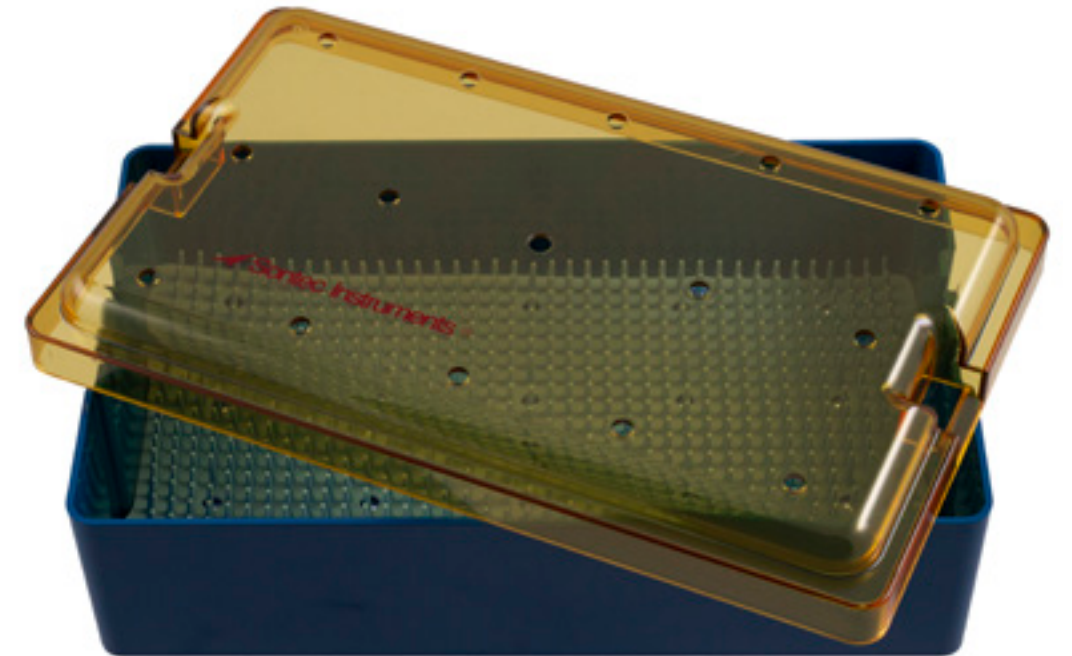
**Thermoplastic Instrument Tray**

With silicone mat / autoclavable

1103-719	single	10" x 6" x 2.5"	deep with flat lid
1103-720	single	10" x 6" x 3"	deep with dome lid



1103-719



1103-720

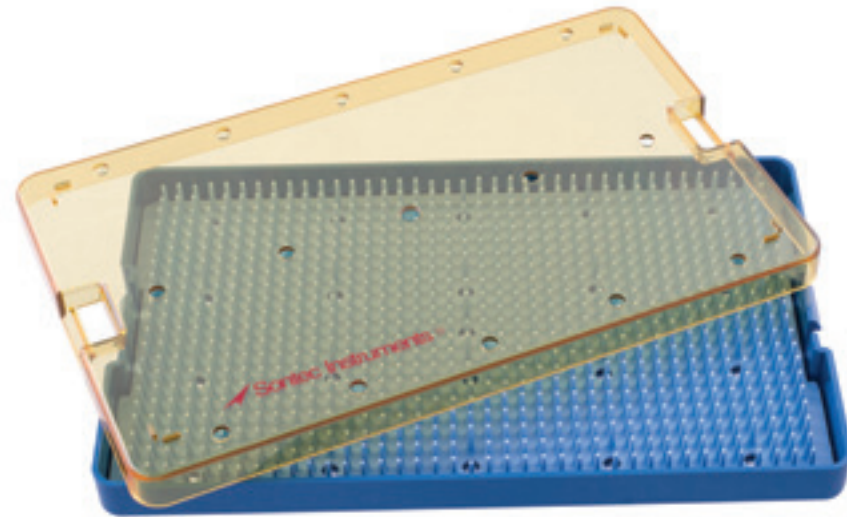
**Thermoplastic Instrument Tray**

With silicone mat / autoclavable

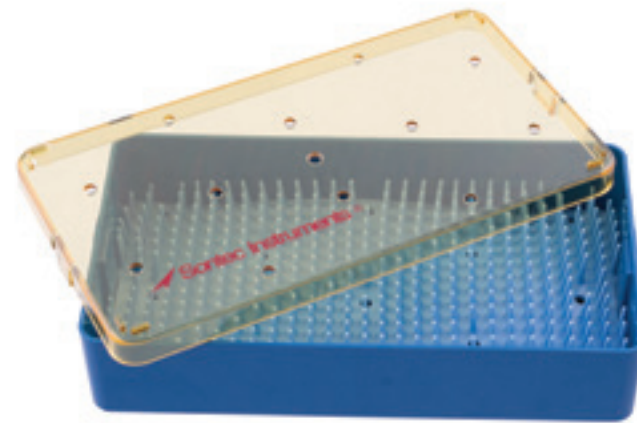
1103-702	single	6" x 2 1/2" x 3/4"
1103-703	single	1.5" x 2.7" x .75" mini tray
1103-705	single	6" x 4" x 3/4"
1103-723	single	7 1/2" x 4" x 3/4"
1103-710	single	10" x 6" x 3/4"
1103-702D	single	6" x 2 1/2" x 1 1/4" deep
1103-724	single	7 1/2" x 4" x 1 1/2" deep
1103-716	single	10" x 6" x 1 1/2" deep
1103-715	double decker	10" x 6" x 1 1/2"



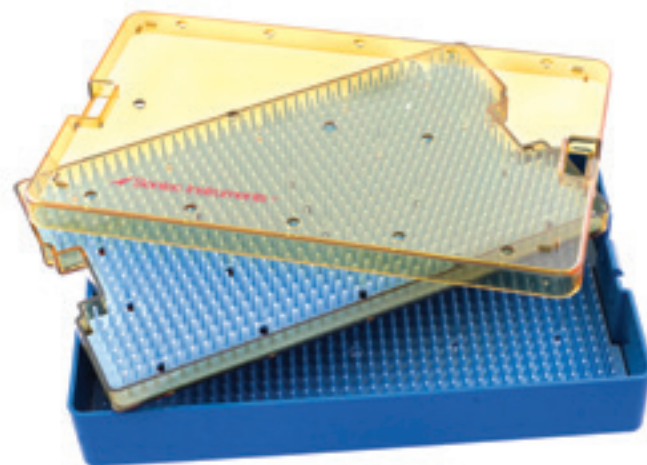
1103-703



1103-710



1103-724

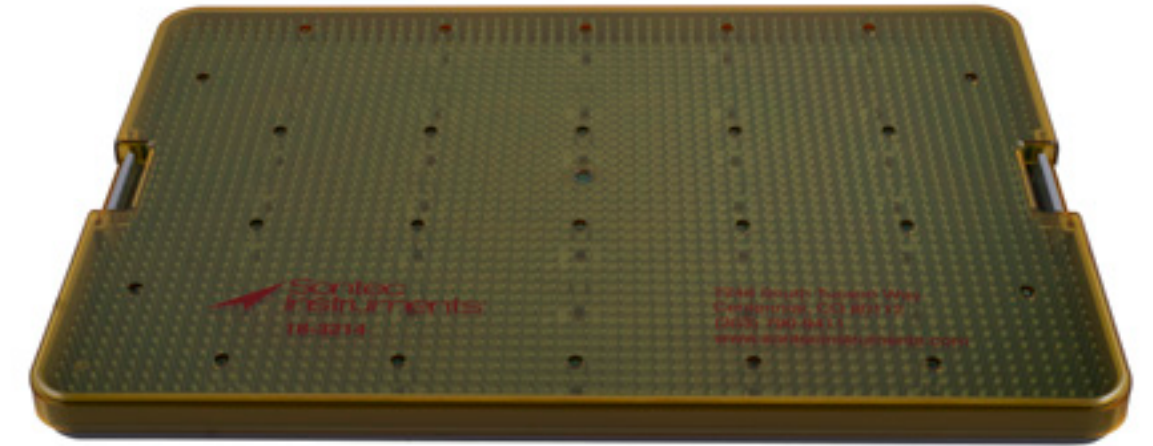


1103-715

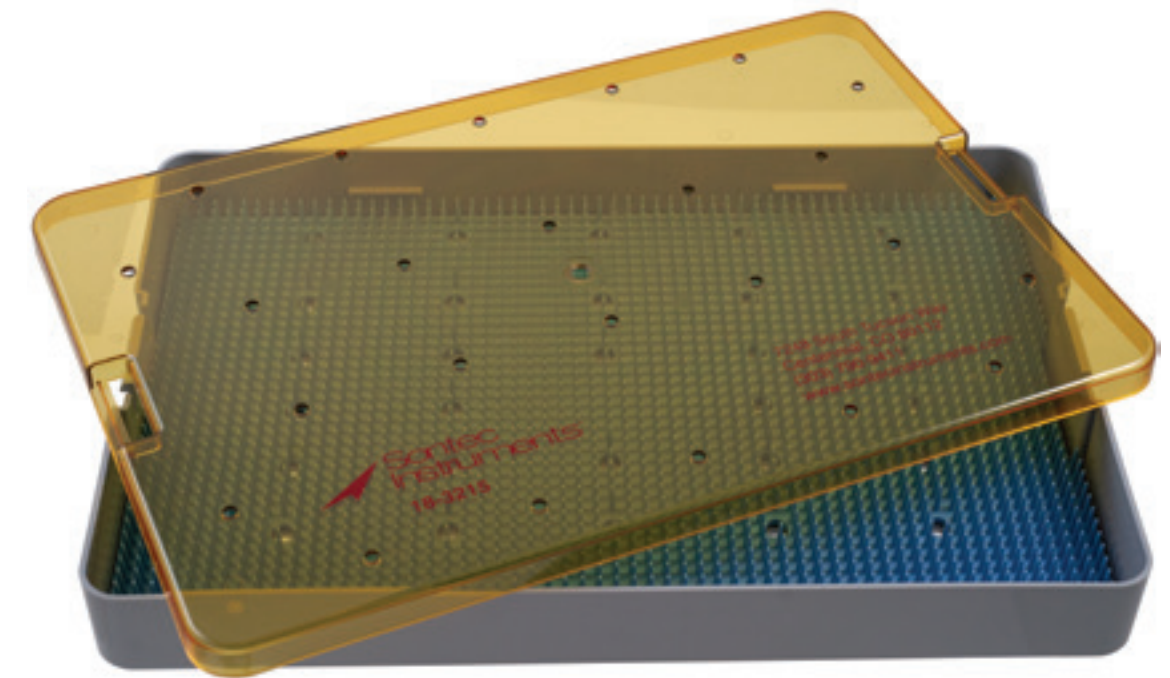
**Thermoplastic Instrument Tray**

With silicone mat / autoclavable

18-3214	single	10" x 15" x 3/4"
18-3215	single	10" x 15" x 1 1/2" deep
18-3213	double decker	10" x 15" x 1 1/2"



18-3214



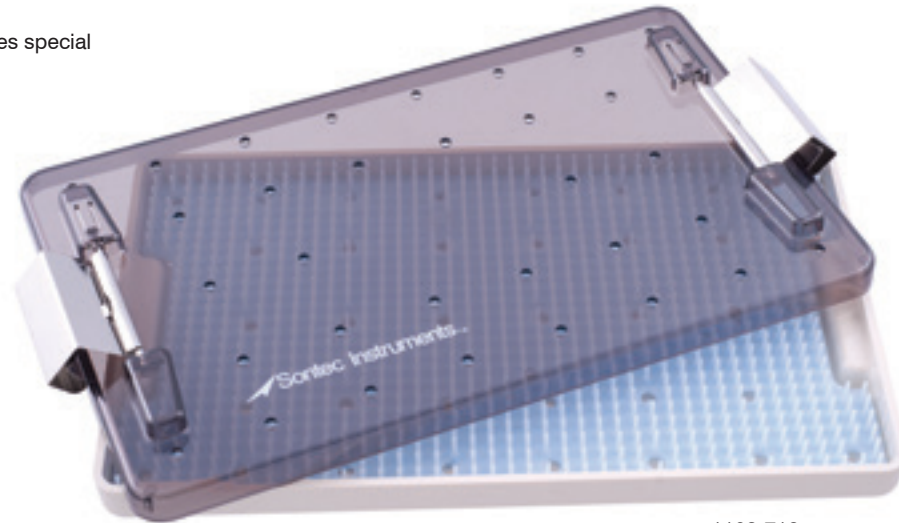
18-3215

**Thermoplastic Instrument Trays**

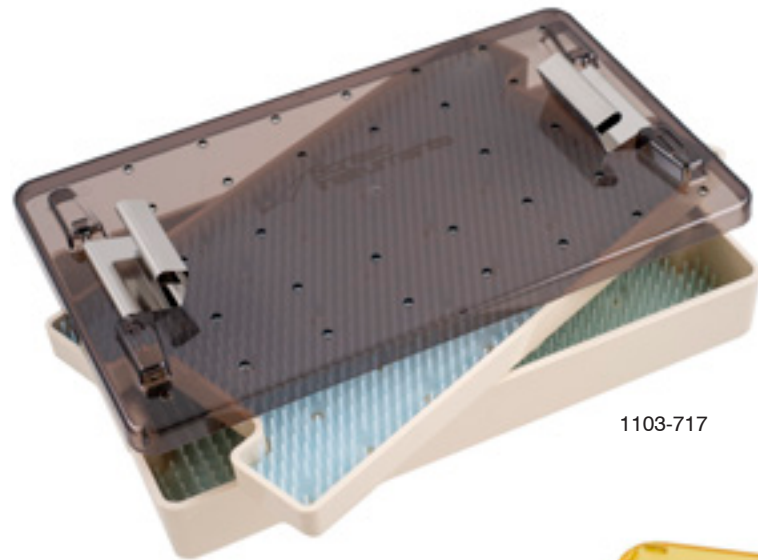
With silicone mat and metal clasps / autoclavable

- 1103-717 double decker 11" x 7" x 1 1/2"
- 1103-717D single deep 11" x 7" x 1 1/2"
- 1103-712 single shallow 11" x 7" x 3/4"

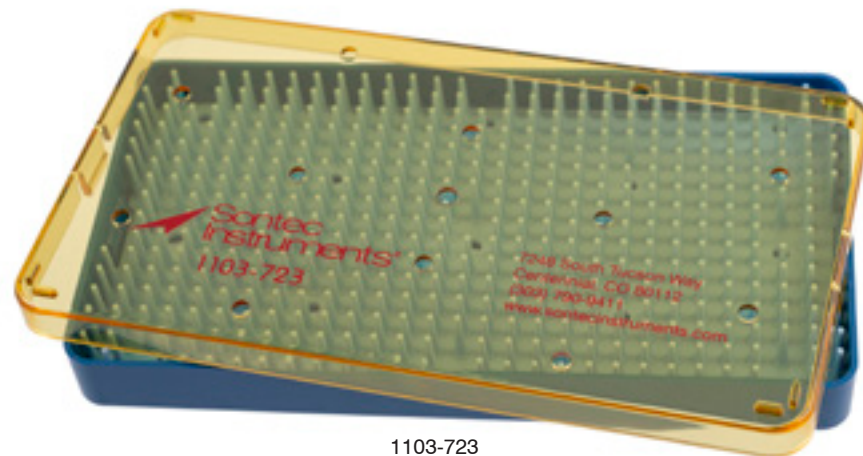
\* Other sizes available upon request, requires special order. Check your measurements.



1103-712



1103-717



1103-723

**Sontec Slim Thermoplastic Instrument Tray**

- 18-3209 tray 10.3" x 18.3" x 2.33"
- 18-3270 tray 18.3" x 8.35" x 2"

\* "Check Your Measurements", These items are FINAL SALE



18-3209



18-3270

**Catheter Trays & Dome Lid Covers**

Heavy duty / seamless / for catheter trays / strap handles / easy to handle

ST83 8 3/4" x 3 1/4" x 1 1/2" Tray  
ST83-2 Lid Cover: fits tray ST83

ST17-0-0 17 1/4" x 4 1/2" x 2" Tray  
ST17-0-2 Lid Cover: fits tray ST170

ST95-2 8 7/8" x 5" x 2" Tray  
ST95-3 8 7/8" x 5" x 3" Tray  
ST95-2D-2 Lid Cover: fits trays ST952 & ST953

\* "Check Your Measurements"  
These items are FINAL SALE



ST95-2

**Stainless Steel Instrument Trays, Lid Covers & Perforated Nesting Sterilization Instrument Trays**

Used for hot or cold sterilization / for Sterilization Trays / recessed strap handles / easy to handle / easy to store / safe to transport

STE2-0124 solid 20 3/4" x 12 3/4" x 4" Tray  
STP2-0122 perforated 20 3/4" x 12 3/4" x 2 1/2" Tray  
STE2-0126 solid 20 3/4" x 12 3/4" x 6" Tray  
STP2-0124 perforated 20 3/4" x 12 3/4" x 4" Tray  
ST20-00-2 Lid Cover: fits trays STE20124, STP20122, STE20126, STP20124

STE1-2104 solid 12 3/4" x 10 3/8" x 4" Tray  
STP1-2102 perforated 12 3/4" x 10 3/8" x 2 1/2" Tray  
STP1-2104 perforated 12 3/4" x 10 3/8" x 4" Tray  
ST13-11-2 Lid Cover: fits trays STE1-2104, STP1-2102, STP1-2104



STP1-2104

**Stainless Steel Instrument Trays & Lid Covers**

Heavy duty / seamless / covered corners / easy to sterilize / for instrument trays / recessed strap handles / easy to handle / easy to store

ST43 5 3/8" x 4" x 2 5/8" Tray  
ST43-2 Lid Cover: fits tray ST43

ST63 6 1/8" x 6 1/8" x 2 7/8" Tray  
ST63-2 Lid Cover: fits tray ST63

ST95-3 8 7/8" x 5" x 3" Tray  
ST95-2 8 7/8" x 5" x 2" Tray  
ST95-2-2 Lid Cover: fits trays ST952 & ST953

ST10-02 10" x 6 1/2" x 2" Tray  
ST10-02-2 Lid Cover: fits tray ST1002

ST12-02 12 1/4" x 7 3/4" x 2 1/4" Tray  
ST12-02-2 Lid Cover: fits tray ST1202

STE1-082 10" x 8 1/4" x 2 1/2" Tray  
ST10-82-2 Lid Cover: fits trays STE1082

STE1-654 16 1/2" x 10" x 4" Tray  
STE1-650 16 1/2" x 10" x 2 1/2" Tray  
ST16-50-2 Lid Cover: fits trays STE1650 & STE1654

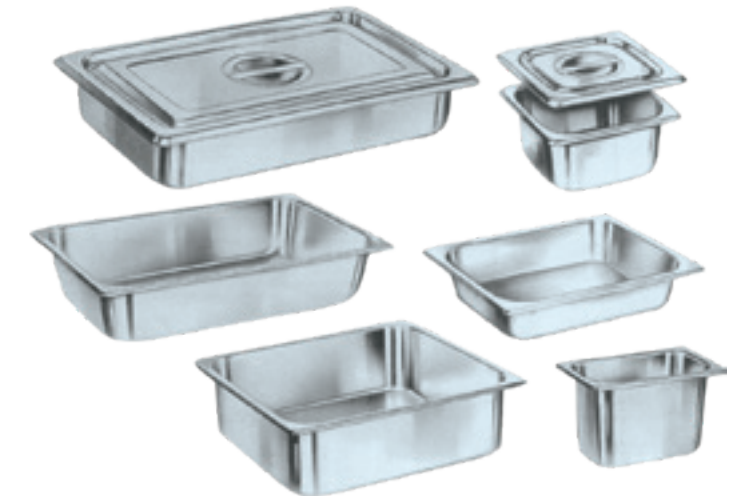
STE9-02 6 7/8" x 4 1/4" x 2" Tray

STE2-304 13 7/8" x 12 7/8" x 4" Tray  
STE2-302 13 7/8" x 12 7/8" x 2 1/2" Tray

STE0-6066 6 7/8" x 6 3/8" x 6" Tray  
STE0-6064 6 7/8" x 6 3/8" x 4" Tray  
STE0-6062 6 7/8" x 6 3/8" x 2 1/2" Tray  
ST60-2-2 Lid Cover: fits trays STE06062, STE06064 & STE06066

STE1-0066 10 3/8" x 6 3/8" x 6" Tray  
STE1-0064 10 3/8" x 6 3/8" x 4" Tray  
STE1-0062 10 3/8" x 6 3/8" x 2 1/2" Tray  
ST40-2-2 Lid Cover: fits trays STE10062, STE10064 & STE10066

\* "Check Your Measurements", These items are FINAL SALE



ST95-2



ST16-50-2



STE1-654

**Stainless Steel Instrument Trays & Lid Covers** Continued

**For instrument trays / standard weight / 22 gauge**

- STE1-2066 12 3/4" x 6 7/8" x 6" Tray
- STE1-2064 12 3/4" x 6 7/8" x 4" Tray
- STE1-2062 12 3/4" x 6 7/8" x 2 1/2" Tray

**Heavy weight / 20 gauge**

- STS1-2066 12 3/4" x 6 7/8" x 6" Tray
- STS1-2064 12 3/4" x 6 7/8" x 4" Tray
- STS1-2062 12 3/4" x 6 7/8" x 2 1/2" Tray
- ST30-2-2 Lid Cover: fits trays STE1-2062, STE1-2064, STE1-2066, STS1-2062, STS1-2064, STS1-2066

**Standard weight / 22 gauge**

- STE1-2106 12 3/4" x 10 3/8" x 6" Tray
- STE1-2104 12 3/4" x 10 3/8" x 4" Tray
- STE1-2102 12 3/4" x 10 3/8" x 2 1/2" Tray

**Heavy weight / 20 gauge**

- STS1-2106 12 3/4" x 10 3/8" x 6" Tray
- STS1-2104 12 3/4" x 10 3/8" x 4" Tray
- STS1-2102 12 3/4" x 10 3/8" x 2 1/2" Tray
- ST13-11-2 Lid Cover: fits trays STE1-2102, STE1-2104, STE1-2106, STS1-2102, STS1-2104, STS1-2106

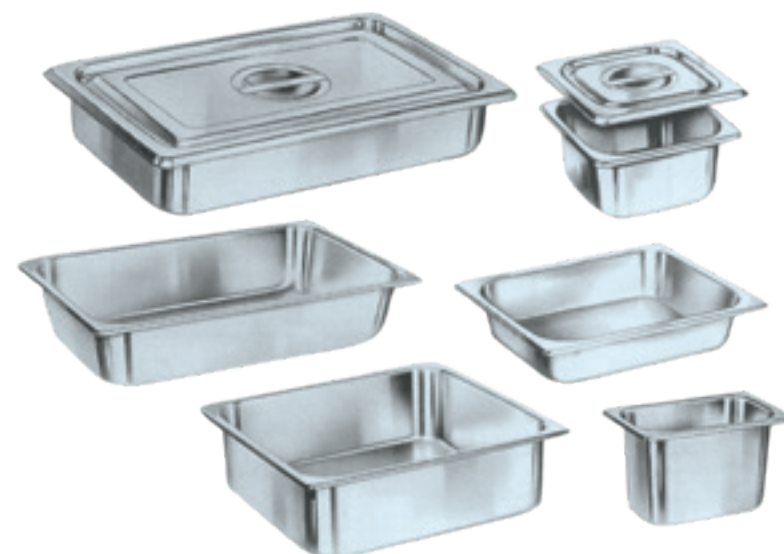
**Standard weight / 22 gauge**

- STE2-0126 20 3/4" x 12 3/4" x 6" Tray
- STE2-0124 20 3/4" x 12 3/4" x 4" Tray
- STE2-0122 20 3/4" x 12 3/4" x 2 1/2" Tray

**Heavy weight / 20 gauge**

- STS2-0126 20 3/4" x 12 3/4" x 6" Tray
- STS2-0124 20 3/4" x 12 3/4" x 4" Tray
- STS2-0122 20 3/4" x 12 3/4" x 2 1/2" Tray
- ST20-00-2 Lid Cover: fits trays STE2-0122, STE2-0124, STE2-0126, STE2-0122, STE2-0124, STE2-0126

\* "Check Your Measurements", These items are FINAL SALE



STS1-2104

**Emesis Basin**

- ST6 10 oz.
- ST8 12 oz.
- ST10 26 oz.
- ST12 50 oz.



**Instrument Tray**

**Rolled edge**

- ST10-F 10" x 6 1/2" x 3/4"
- ST13-F 13 1/2" x 9 3/4" x 3/4"
- ST15-20 21 1/4" x 16 1/4" x 7/8"
- ST15-F 15 1/8" x 10 5/8" x 3/4"
- ST17-F 17" x 11 5/8" x 3/4"
- ST19-F 19 1/8" x 12 5/8" x 3/4"



**Perforated Mayo Tray**

- ST10-F-PMT 10" x 6 1/2" x 3/4"
- ST15-20-PMT 21 1/4" x 16 1/4" x 7/8"
- ST15-F-PMT 15 1/8" x 10 5/8" x 3/4"
- ST17-F-PMT 17" x 11 5/8" x 3/4"
- ST19-F-PMT 19 1/8" x 12 5/8" x 3/4"



**Non-Perforated Mayo Tray**

ST3-926	10" x 6 1/2" x 3/4"
ST3-927	14" x 10" x 5/8"
ST3-929	17" x 11 5/8" x 3/4"
ST3-930	19 1/8" x 12 5/8" x 3/4"



ST3-926



ST3-927



ST3-930

**Iodine Cup**

ST6G	6 oz. 3 7/16" x 2"
ST14-G	14 oz. 4 3/8" x 2 5/8"

\* "Check Your Measurements",  
These items are FINAL SALE



ST14-G



ST6G

**Sponge Bowl**

Flat bottom / straight sides / extra stable

ST10-7	64 oz.	7 9/16" x 3"
ST14-8	48 oz.	7 1/8" x 2 3/4"
ST10-6	36 oz.	6 1/4" x 2 3/4"
ST10-0	30 oz.	5 9/16" x 2 9/16"
ST75	20 oz.	5" x 2 3/8"
ST52	14 oz.	4 1/4" x 2"

\* "Check Your Measurements", These items are FINAL SALE



ST10-6



ST52



ST75

**Dressing Jar**

With cover / cover included with jar

ST2J	2 quart
ST3J	3 quart
ST4J	4 3/4 quart



**Forceps Jar**

ST14-K	1 x 4"
ST32-K	2 1/4 x 4 1/2"
ST72-K	2 1/4 x 7"



ST14-K

**Medicine Cup**

ST2 2 oz.



**Sontec Scrub Pants**

- 103-109 small
- 103-110 medium
- 103-111 large



**Sontec Instrument Fabric Barrier Wrap 2Ply**

- 103-115 18 x 18"
- 103-117 24 x 24"
- 103-119 30 x 30"



**Sontec Forceps Holder**

**Side lock / pin**

- 125-634 2 1/2" x 6" (15.2 cm)
- 125-635 2 1/2" x 8" (20.3 cm)
- 125-636 2 1/2" x 10" (25.4 cm)
- 125-637 2 1/2" x 12" (30.5 cm)
- 125-638 2 1/2" x 16" (40.6 cm)
- 125-639 2 1/2" x 18" (45.7 cm)

**Open U**

- 125-661 2 1/2" x 6" (15.2 cm)
- 125-662 2 1/2" x 8" (20.3 cm)
- 125-663 2 1/2" x 10" (25.4 cm)
- 125-664 2 1/2" x 12" (30.5 cm)

**Center lock / hook**

- 125-666 2 1/2" x 6" (15.2 cm)
- 125-667 2 1/2" x 8" (20.3 cm)
- 125-668 2 1/2" x 10" (25.4 cm)
- 125-669 2 1/2" x 12" (30.5 cm)
- 125-670 2 1/2" x 16" (40.6 cm)
- 125-671 2 1/2" x 18" (45.7 cm)

**Side lock / wide / hook**

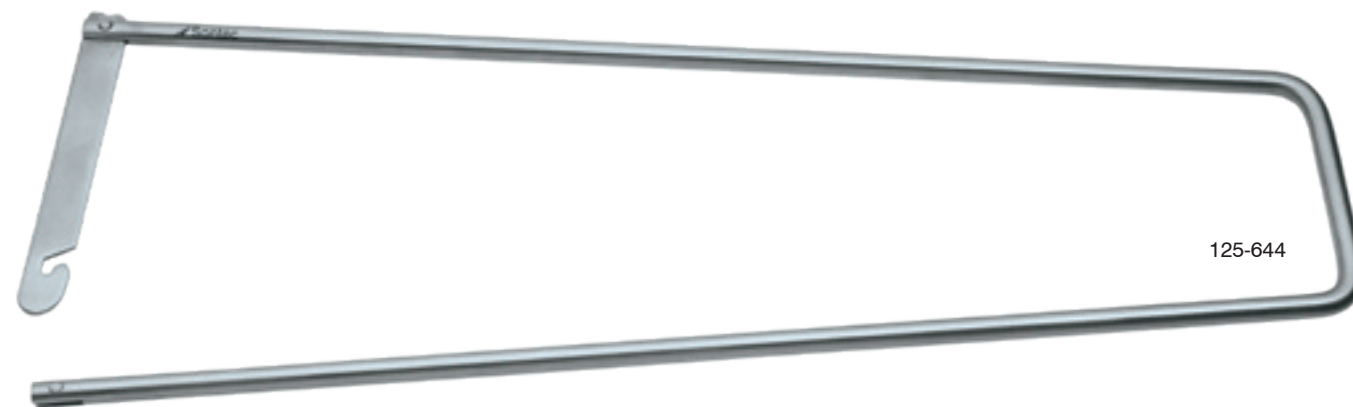
- 125-640 2 1/2" x 8" (20.5 cm)
- 125-642 2 1/2" x 10" (25.5 cm)
- 125-644 2 1/2" x 12" (30.5 cm)
- 125-646 2 1/2" x 16" (41 cm)

**Side lock**

- 125-655 5" x 8" (20.3 cm)
- 125-656 5" x 10" (25.4 cm)
- 125-657 5" x 12" (30.5 cm)
- 125-658 5" x 16" (40.6 cm)
- 125-659 5" x 18" (45.7 cm)

**Closed U**

- 125-673 2 1/2" x 6" (15.2 cm)
- 125-674 2 1/2" x 8" (20.3 cm)
- 125-675 2 1/2" x 10" (25.4 cm)
- 125-676 2 1/2" x 12" (30.5 cm)



**Stringer Forceps Holder**

**With loop end**

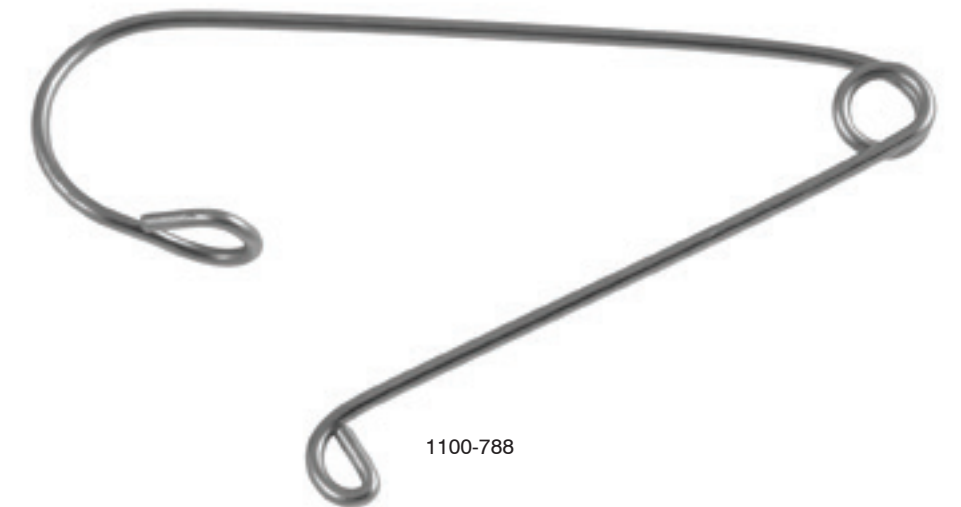
- 127-227 6"
- 127-228 8"
- 127-226 10"
- 127-229 12"



**Bunt Forceps Holder Ring**

**With loop end**

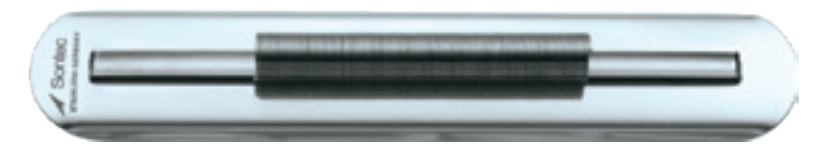
- 1100-788



**Needle Boat / Spiral Rack**

**For holding needles**

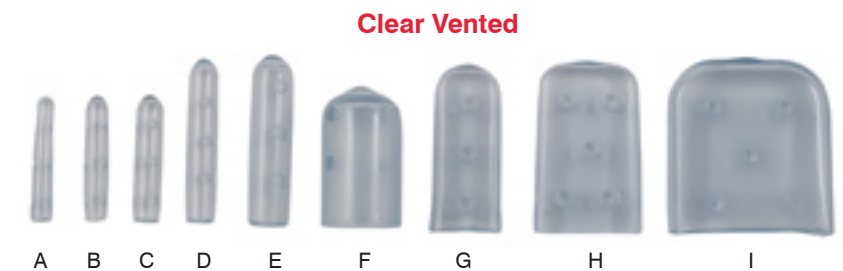
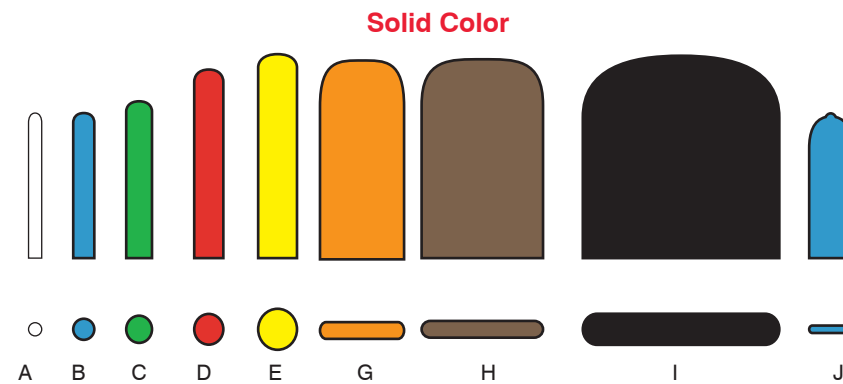
- 1103-730



**Tip Cover**

For surgical instrument tip protection / economical & long-lasting / prevents damaging tips and edges / steam-permeable / autoclavable / conveniently color coded / soft vinyl construction, no latex / for a wide variety of instruments, including: scissors, forceps, curettes, drills, and retractors

\* See colors online  
 \* Larger sizes available. Please call for details.  
 \* Individual styles, packaged 100 per bag



Individual styles, packaged 100 per bag

	Color	Solid #	Tinted #
A	White	105-730	105-782
B	Blue	105-732	105-783
C	Green	105-734	105-784
D	Red	105-736	105-785
E	Yellow	105-738	105-786
G	Orange	105-742	105-787
H	Brown	105-744	105-789
I	Black	105-746	105-790
J	Blue	105-764	N/A

Individual styles, packaged 100 per bag

	Size	Item #
A	1.6 mm x 19 mm	105-791
B	2 mm x 19 mm	105-792
C	2.8 mm x 19 mm	105-793
D	3 mm x 25 mm x 25 mm	105-794
E	3.2 mm x 25.4 mm	105-7951
F	5 mm x 25 mm	105-796
G	10 mm x 19 mm	105-797
H	2 mm x 9 mm x 25 mm	105-798
I	2 mm x 16 mm x 25 mm	105-799
	Assorted Sizes	105-791A

Available Assortments

	Solid #	Tinted #	Clear Vented	Description
Large Assorted	105-748	105-780		Bag of 100, Equal parts A - J
Small Assorted	105-750	105-781		Bag of 100, Equal parts A - E, G, J
Large Assorted			105-791A	Bag of 100 All sizes A - I

**Sontec® Sheet Tape**

For surgical instrument identification / color-codes instruments with pre-cut strips / each 8 1/2" x 11" sheet contains: 44 strips, 2" long x 1/4" wide / 220 strips, 1" long x 1/4" wide (total: 264 strips, 374" of tape)

\* See colors online  
 \* PLEASE NOTE: Sontec® Sheet Tape is not recommended for use with cold sterilization fluids.  
 \* Size and color of tapes may vary slightly from actual products



	105-610 White		105-581 Plum		105-640 Fuchsia
	105-612 Kelly Green		105-540 Blue/Green		105-642 Medical Blue
	105-614 Red		105-541 Blue/Red		105-644 Emerald Green
	105-616 Yellow		105-542 Yellow/Blue		105-646 Violet
	105-618 Orange		105-543 Yellow/Green		105-660 Fuchsia
	105-620 Gray		105-544 Yellow/Red		105-662 Medical Blue
	105-622 Lavender		105-686 Purple/Black		105-664 Emerald Green
	105-624 Beige		105-688 Orange/Black		105-666 Violet
	105-626 Light Blue		105-690 Blue/Black		105-590 Smiley Face, Yellow/Black
	105-628 Lime Green		105-692 Rubine/Black		105-600 Red Hearts on White
	105-630 Pink		105-694 Yellow/Black		105-602 White Hearts on Red
	105-632 Plum		105-696 Green/Black		105-670 Fuchsia*
	105-570 Royal Blue		105-720 Lime Green		105-672 Medical Blue*
	105-571 Kelly Green		105-722 Gray		105-674 Emerald Green*
	105-572 Red		105-723 Beige		105-676 Violet*
	105-573 Yellow		105-724 Light Blue	* Each color sheet contains numbers 0 - 8	
	105-574 Orange		105-725 Pink		105-550 Red/White/Blue
	105-575 Brown		105-726 Plum		105-551 Red/White/Black
	105-576 Black		105-727 Lavender		105-552 Red/Yellow/Black
	105-577 Lavender		105-650 Fuchsia		105-553 Red/Black/Green
	105-578 Light Blue		105-652 Medical Blue	Above Styles: 3/8" wide, 245" total tape	
	105-579 Lime Green		105-654 Emerald Green		
	105-580 Pink		105-656 Violet		


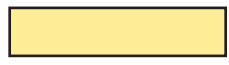



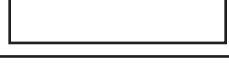



**Medi-Mark™ Tape**

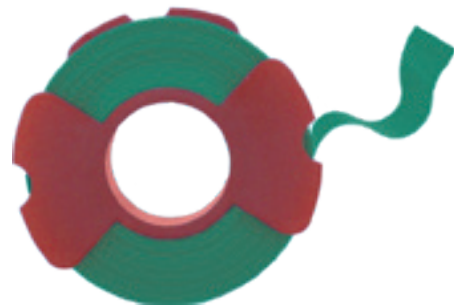
Surgical instrument color coding system / fast and efficient identification system / available in 9 solid colors / one spool codes an average of 230 instruments / clinically proven safe in conventional, flash and gas sterilization / bonds to itself / lasts many months

\* PLEASE NOTE: Medi-Mark™ Tape is not recommended for use with cold sterilization fluids.  
\* See colors online

**Application of Medi-Mark™ Tape**

1. Instrument and hands must be clean and dry.
2. Cut Medi-Mark™ Tape with scissors. DO NOT STRETCH!
3. Overlap Medi-Mark™ Tape once.
4. Replace Medi-Mark™ Tape when color changes, before it becomes brittle.
5. Avoid placing Medi-Mark™ Tape on the shank of scissors.

	105-700 Green
	105-702 Yellow
	105-704 Blue
	105-706 Red
	105-708 Brown
	105-710 White
	105-712 Orange
	105-714 Black
	105-716 Purple



**Whisk 'R Brush™**

For general purpose cleaning / two bristle lengths & a sure-grip handle / available sterile & non-sterile / convenient & economical / simple to use on various shapes and surfaces / for a wide variety of instruments, including: burs, drill points, rasps, and rongeurs / easily removes bone fragments and soft tissue

- 9B-010 12 sterile brushes
- 9B-025 25 non-sterile brushes
- 9B-020 100 non-sterile brushes



**Endozime AW Triple Plus®**

- Multi-tiered enzymatic cleaner
- specifically designed for all washers, washer sterilizers, ultrasonics and manual cleaning
- proprietary synergistic mixture of enzymes and non-ionic detergents
- Protease, Amylase, Lipase, Carbohydrase and other proprietary enzymes
- dissolves all blood, fat, protein, carbohydrates and starches
- built in detergent eliminating the need for all other cleaners and detergents
- compatible with all washers, washer sterilizers and ultrasonics
- strong enough for the most difficult instruments but safe on the most delicate

345A-P16 16 oz  
345A-PAG1 1 gal



**Surgistain®**

- Rust and stain remover
- removes rust, pitting, stains and corrosion from stainless steel instruments
- restores instrument's original finish
- restores articulation to box-locks and joints
- prevents destructive pitting on ridges of micro instruments
- non-corrosive; will not harm quality stainless steel

345B-16 16 oz  
345B-G1 1 gal



**Premixslip®**

- instrument lubricant and rust inhibitor
- the only bacteriostatic pre-mixed instrument lubricant and rust inhibitor
- clinically tested to be thoroughly steam penetrable, steam sterilizable and ETO sterilizable
- prevents rust, spots, stains and corrosion
- non-oily, non-sticky, non-toxic and silicone free
- bacteriostatic high-grade mineral oil lubricant

345P-MX16 16 oz  
345P-MXG1 1 gal



**Prepzyme®**

- multi-tiered enzymatic foam spray
- prevents bio-film from adhering to surface prior to decontamination
- foaming spray covers soiled instruments, scopes and biopsy forceps
- breaks down blood, fat, carbohydrates and starches immediately
- perfect for use in departments where instruments & scope cleaning is not readily available
- safe for all instruments and scopes (flexible or rigid), extends usable lifetime
- neutral PH, non-abrasive, free-rinsing and 100% biodegradable
- will not harm any metals, plastic, rubber, glass or corrugated tubing

345P-RP08 8 oz (with sprayer)  
345P-RP22 22 oz (with sprayer)



**F\*A\*C\*T\*S®**

- foaming autoclave cleaning treatment system
- removes all rust, pitting, stains and corrosion from walls of autoclaves and from stainless steel carts and trays
- removes scale, alkaline and mineral deposits
- foaming spray remains on walls longer for better penetration
- eliminates all noxious odors
- restores original finish to all autoclaves, carts and trays
- non-corrosive; will not harm quality stainless steel

345F-CT22 22oz (with sprayer)





 Sontec Instruments®

KNIFE & BLADE Handles

**Knife Handle #3**

Fits surgical blades 10-15 / with calibrated scale

\* surgical blade not included

1100-740 5" (12.5 cm)



Round handle

1100-741 6" (15 cm)

1100-740



1100-741

Round knurl handle / double / 1 mm / 6 1/4"

1100-7411



1100-7411

**Wide Barrel Grip Knife Handle #3**

Round knurled / straight / 5" (12.7 cm)

117-577



117-577

**Universal Adjustable Angle Knife Handle #3**

Adjustable tip & lock / straight / 10 mm locking increments of 7 positions / 6 1/2" (16.5 cm)

117-578 vertical adjusting  
117-5781 horizontal adjusting



117-578



117-5781

**Knife Handle #3L**

Fits surgical blades 10-15

1100-866 8 1/2" (21.5 cm)

1100-868 12" (30 cm)

117-582 8 3/8" (20 cm) angled



1100-866



117-582

**Staley Round Knurled Knife Handle**

Aluminum / 6" (15.2 cm)

117-571



117-571

**Sontec Knife Handle #3XXL**

16" (40.6 cm)

1100-8681



1100-8681

**Knife Handle #3KL**

Round handle / 6" (15.2 mm)

117-564



117-564

**Chuck Knife Handle #3HL**

Hexagonal handle / 6" (15.2 mm)

117-566



**Beaver® Blade Chuck Handle #3K**

Fits Beaver® style blades

117-560 4" (10 cm)

T117-560 4" (10 cm) titanium

117-561 3" (7.5 cm)



117-560



T117-560

**Beaver® Blade Chuck Handle #3KD**

Fits Beaver® style blades / 5.25" (13.5 cm)

117-559



117-559

**Blake Blade Holder**

Fits size blades #10, 11, 12, 12D, 15, 15C

1100-7413



1100-7413

**Knife Handle #4**

fits surgical blades 20-25  
/ with calibrated scale

1100-742 5" (12.5 cm)



1100-742

**Knife Handle #4L**

Fits surgical blades 20-25

1100-870 8 1/2" (21.5 cm)

1100-872 12" (30 cm)

117-583 8 3/8" (20 cm) angled



1100-870



117-583

**Knife Handle #7**

Fits surgical blades 10-15

117-576 6 1/2" (16.5)

117-576A 6 1/2" (16.5) angled



117-576



117-576A

**Collett Chuck for Knife Handle**

For 3K, 3KL & 3KM handles  
19-1801



19-1801

**Knife Handle #9**

Fits surgical blades 10-15  
117-585



117-585

**Siegel Knife Handle**

Fits surgical blades 10-15 /  
round handle  
117-588



117-588

**Gubish Surgical Pen Holder Set**

5 1/4" (13 cm)  
117-593



chuck

117-593

**Gubisch Surgical Pen Replacement Tip**

10 to a package  
117-594



117-594

**Bayonet Spinal Knife Handle**

Also available in titanium / 13 3/4" (18.5 cm)  
400-428 # 3 use blades 10-15  
400-428A # 4 use blades 20-25

\* Additional sizes available please call Sontec for more information.



400-428

**Self-Locking 3K Chuck Blade Handle**

Stainless steel / 5 3/8"  
117-555



117-588

**Surgical Blade Remover**

117-602



117-602



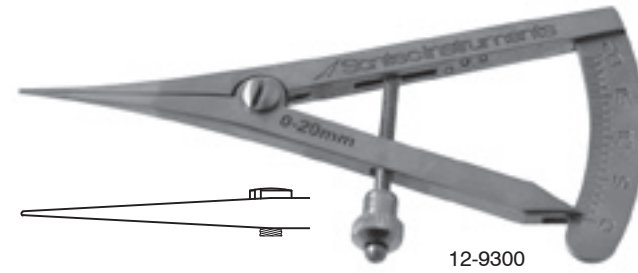
 Sontec Instruments®

CALIPERS & RULERS

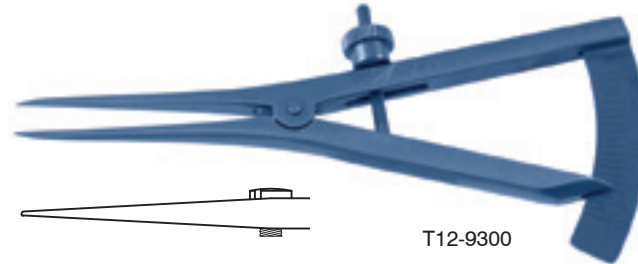
**Castroviejo Caliper**

Scale to 20 mm / 3 1/2" (9 cm)

12-9200	straight	original with wider shanks
12-9300	straight	titanium
T12-9300	straight	deluxe
12-9300D	straight	deluxe
12-9305	angled 45°	
12-9310	curved	
12-9310D	curved	deluxe
12-9315	angled	40 mm scale
12-9316	straight	40 mm scale
12-9318	angled	40 mm scale



12-9300



T12-9300



12-9200



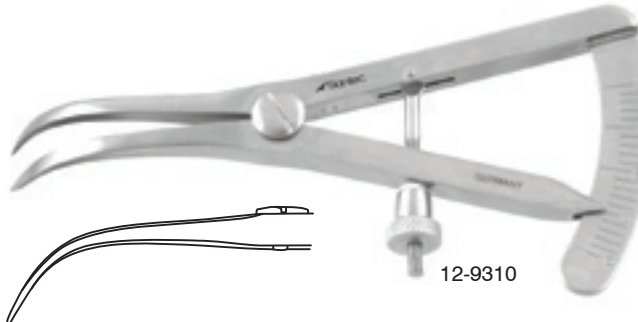
12-9300D



12-9305



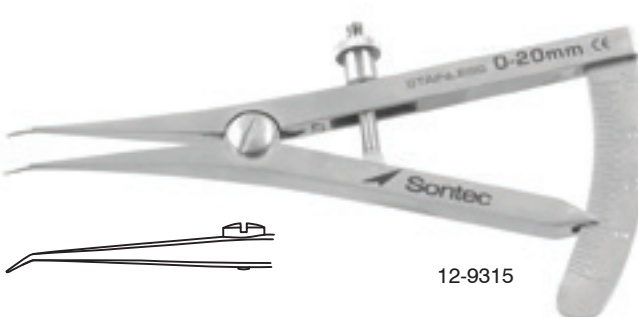
12-9310D



12-9310



12-9316

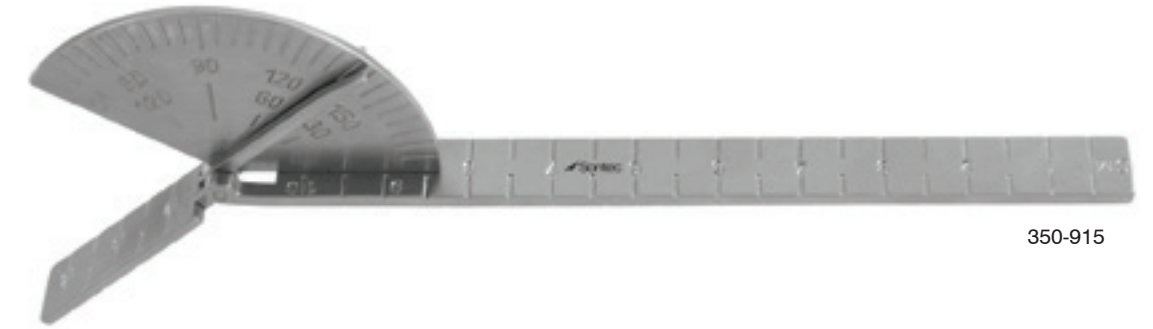


12-9315

**Finger Goniometer**

5 3/4" (14.5 cm)

350-915



350-915

**Castroviejo Body Caliper**

0-200 mm gauge / 0-100 mm gauge

12-9330	100 mm
12-9335	200 mm



12-9330



12-9335

**Castroviejo Caliper**

40 mm / 7" (17.8 cm)

12-9320	straight
12-9325	angled



12-9320

**Jameson Caliper**

Scale to 3" (8 cm)  
12-9450



12-9450

**Thorpe Caliper**

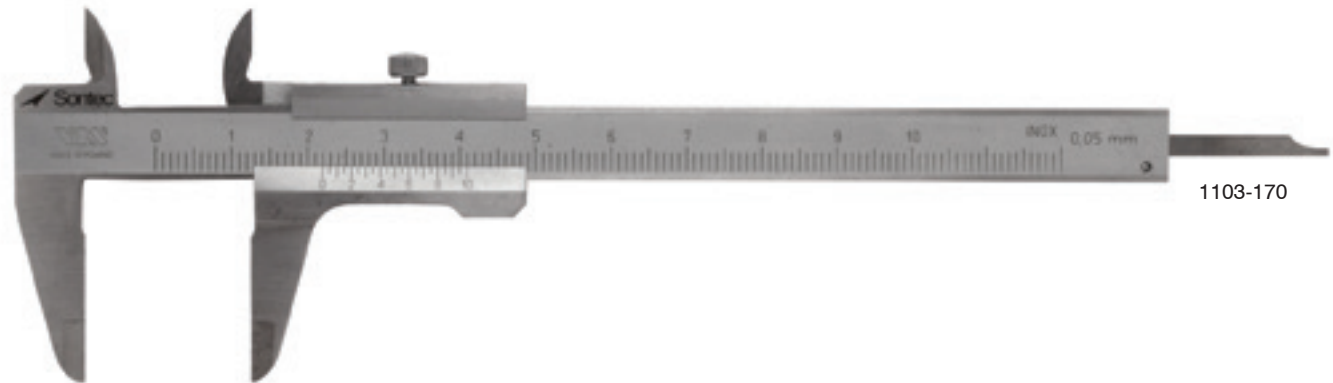
Scale to 3" (8 cm) /  
angled / markings in  
0.5 mm increments  
12-9400



12-9400

**Orthopedic Vernier Caliper**

Stainless steel / 6" (15.5 cm)  
1103-170



1103-170

**Mini Caliper**

Scale to 90 mm / 5" (12.5 cm)  
12-9425



**Braun Fixed Caliper**

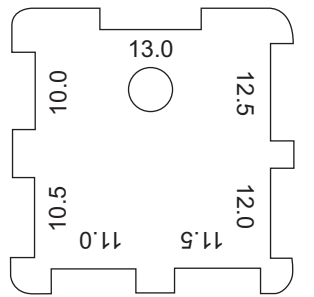
8 cm / special sizes made to order  
12-9340



12-9340

**Stahl A/C Lens Gauge**

For verifying diameter of A/C  
lenses in 1.5 mm increments /  
Teflon coated stainless steel  
12-9630



12-9600

**Stahl Caliper**

A/C caliper for  
measuring corneal  
diameter prior to A/C  
IOL / size markings  
on both sides  
12-9600



12-9600

**House Ear Caliper**

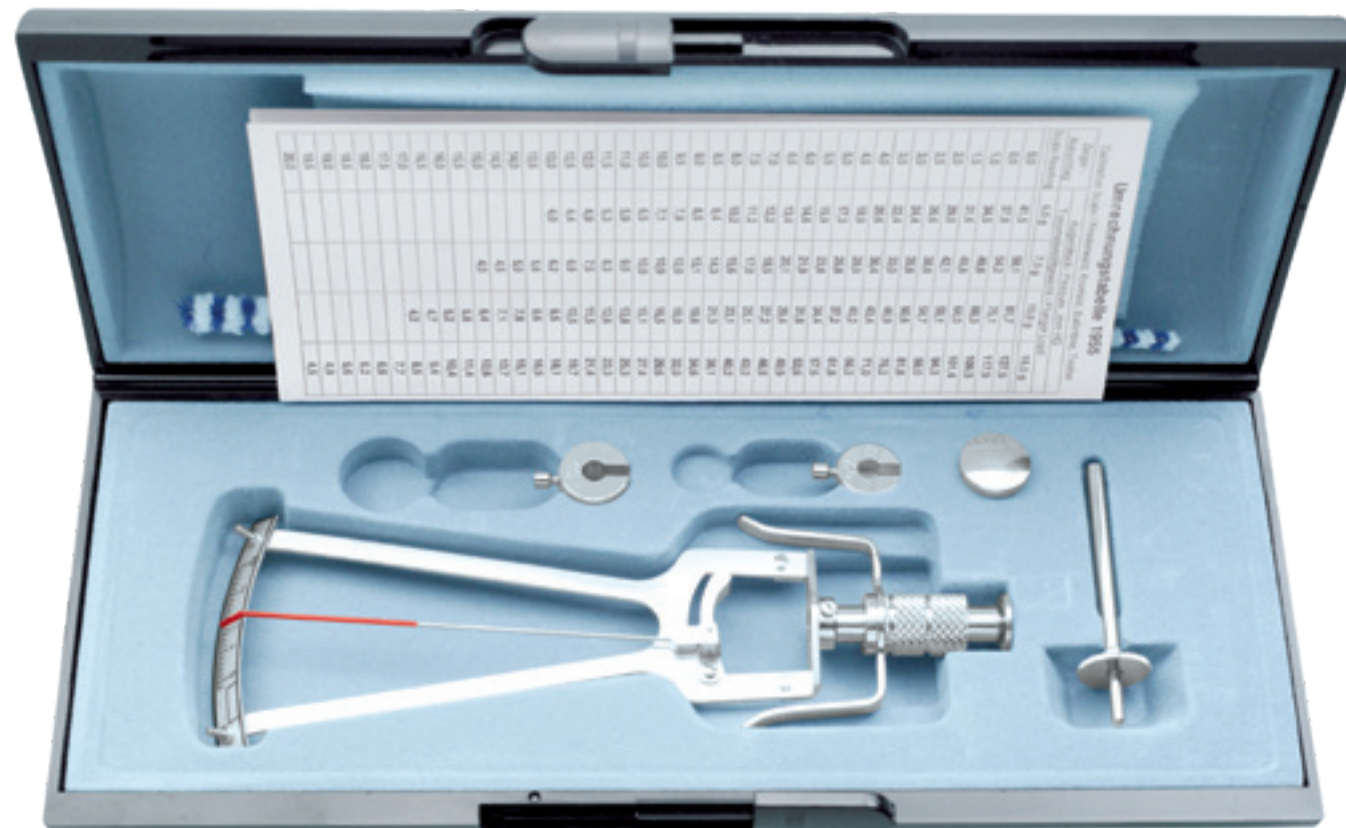
With rod mark / 6 1/4" (16 cm)  
1463-140 3.5mm  
1463-141 4mm  
1463-142 4.5mm  
1463-143 5mm



1463-142

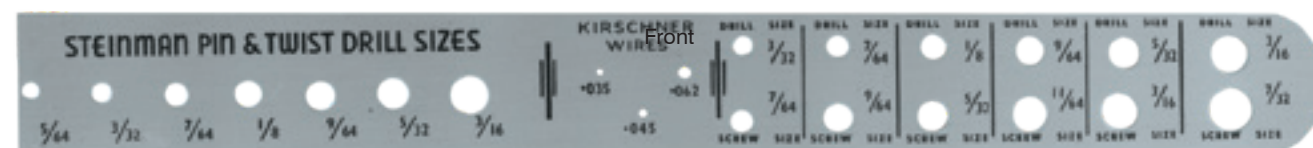
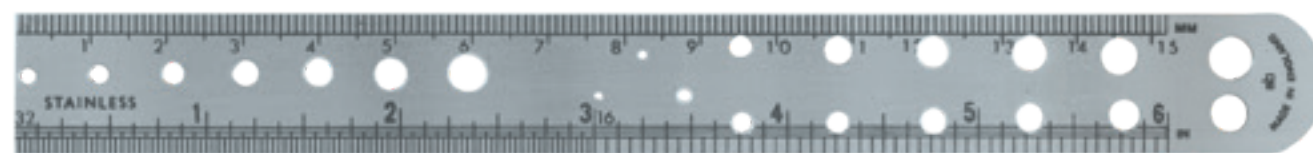
**Schiotz Tonometer**

Autoclavable / original model  
18-8301 incline scale



**Punched Hole Gauge Ruler**

7" (18 cm) in length  
1106-190

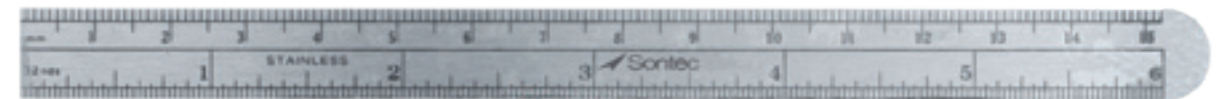


Back

1106-190

**Flexible Stainless Ruler**

6" (15 cm) / graduated in 1/32"  
fractions and millimeters  
12-9500



12-9500

**TPLO Double-Ended Gauge**

- 330-450 5 & 6 mm
- 330-452 7 & 8 mm
- 330-454 9 & 10 mm
- 330-456 11 & 12 mm



330-450



330-452



330-454



330-456



 Sontec Instruments®

**ALLIGATOR BIOPSY FORCEPS**

**Sontec Alligator Forceps**

**With lock / delicate jaw / delicate shaft**

- 1100-328L 3 1/2" (9 cm) long jaw
- 1100-330S 5 1/2" (14 cm) shaft
- 1100-333 6 1/2" (16.5 cm) shaft
- 1100-334 9" (23 cm) shaft



1100-328L



1100-328L



1100-330S



1100-333

**Sontec Micro Alligator Forceps**

**Delicate / lacrimal ducts / 4 mm x 0.9 mm jaw / 3 1/4" (8 cm) shaft**

- 469-036 straight without lock
- 469-040 straight with lock
- 469-048 angled left with lock
- 469-050 angled right with lock



469-036



469-040



469-048



469-050

**Hartman Alligator Forceps**

**1 x 2 teeth / 6 1/2" (16.5 cm)**

- 1100-331



**Alligator Forceps Tubular Shaft**

Delicate, flexible, tubular shaft / jaw width is uniform / 10 mm length x 1 mm width

- 1271-010 3 1/2" (9 cm) shaft
- 1271-011 5 1/2" (14 cm) shaft
- 1271-012 6 1/2" (16.5 cm) shaft
- 1271-013 9" (23 cm) shaft



1271-010

**Sontec Alligator Forceps**

Standard jaw / jaw length 10 mm / standard shaft / jaw width 2.2 tapering at tip to 1mm

- 1100-328 3 1/2" (9 cm) shaft
- 1100-330 5 1/2" (14 cm) shaft
- 1100-332 6 1/2" (16.5 cm) shaft



1100-328

**Alligator Forceps**

With lock / delicate jaw / 3 1/2" (9 cm) delicate shaft

- 1100-328S short jaw



1100-328S

**Side Biting Alligator Forceps**

10 mm jaw

- 469-009 TC 2 1/4"
- 469-010 TCD 3 1/2"
- 469-012 TC 2 1/2"



1100-012

**Micro House Alligator Forceps**

Extremely delicate / 3 1/2" (8.9 cm) shaft

469-041Q 3 mm x 0.6 mm jaw

0.6 mm x 7 mm jaw / 3 1/4" (8 cm) shaft

469-042Q angled up

469-046Q angled down



**Duckbill Ear Alligator Forceps**

Round, flat, serrated jaw

469-015 3" (7.5 cm) shaft

1100-335S 5 1/2" (14.5 cm) shaft



**Greven Alligator Forceps**

Serrated jaws / 3 1/4" (8.3 cm)

469-051



**Goodhill Alligator Forceps**

5 mm specially tapered jaw  
467-352 3" (7.5 cm) shaft



467-352

**Alligator Forceps with Malleable Shaft**

Delicate, malleable, tubular shaft / serrated  
1271-0141 3 1/2" (9 cm) shaft  
1271-0142 5 1/2" (14 cm) shaft  
1271-0143 6 1/2" (16.5 cm) shaft  
1271-0144 9" (23 cm) shaft



1271-0143

**Micro Sontec® Alligator Forceps**

Extremely delicate / 3" (9 cm) shaft  
469-039 straight 4 mm x 0.9 mm jaw  
469-041 straight 4 mm x 0.6 mm jaw  
469-044 angled up 4 mm x 0.6 mm jaw

Extremely delicate / smooth TC Dust / straight / 4 mm x 0.9 mm jaw / 3" (9 cm) shaft  
469-038



469-041



469-038

**Micro Ear Alligator Forceps**

**Black anodized coating / serrated jaw / without lock**

469-020	4 mm x 0.6 mm jaw	3 1/4" (8 cm) shaft	
469-020S	3 mm x 0.6 mm jaw	3 1/4" (8 cm) shaft	short jaw
469-021	5 mm x 0.8 mm jaw	3 1/4" (8 cm) shaft	

**Oval cup**

469-026	0.8 mm cup	3 1/4" (8 cm) shaft
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**Micro Ear Alligator Forceps**

**Black anodized coating / serrated jaw / with lock / 3 1/2"**

469-036B	4 mm x 0.9 mm
469-041B	3 mm x 0.6 mm



**Micro Ear Alligator Forceps**

Black anodized coating / delicate serrated jaw / 4 mm x 0.9 mm / with lock / 3 1/2"

469-048B left curved  
469-050B right curved



**Micro Alligator Grasping Forceps**

Black anodized coating / delicate shaft & jaw / with lock / 3"

1100-328LB



**Goodhill Ear Forceps**

Black anodized coating / delicate shaft & jaw / with lock / 3"

467-352B



**Micro Sontec Alligator Forceps**

Black anodized coating / extremely delicate / 4 mm x 0.9 mm / 3 1/2"  
469-039B



**Hartman Alligator Forceps**

Black anodized coating / standard shaft  
/ 10 mm serrated jaw / jaw width 2.2  
tapering at tip to 1 mm / 3 1/2"  
1100-328B



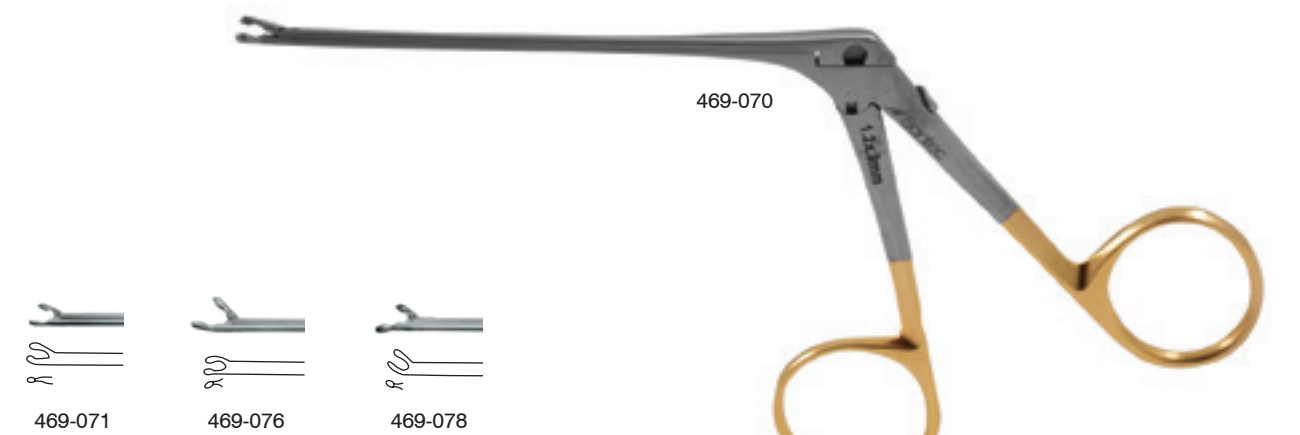
**Micro House Biopsy Alligator Forceps**

**3 1/2" (9 cm) shaft**

- 469-070 straight 1.2 mm x 0.9 mm oval cup
- 469-071 straight 1.0 mm x 0.6 mm oval cup
- 469-072 angled up 1.0 mm x 0.6 mm oval cup
- 469-074 angled down 1.0 mm x 0.6 mm oval cup
- 469-078 angled right 1.0 mm x 0.6 mm oval cup
- 469-076 angled left 1.0 mm x 0.6 mm oval cup

**3" (7.5 cm) shaft**

- 469-070B straight 1.2 mm x 0.9 mm oval cup



**Micro Biopsy Forceps with Flexible Tubular Shaft**

Tapered tubular shaft / 1mm round cup jaw

- 1271-0151 3 1/2" (9 cm)
- 1271-0152 5 1/2" (14 cm)
- 1271-0153 6 1/2" (16.5 cm)
- 1271-0154 9" (23 cm)



**Hartmann-Noyes Alligator Forceps**

Strong jaw / 5 mm x 1.0 mm cup / 3 1/2" (9 cm) shaft

- 467-339U angled up
- 467-339 straight micro serrated



**Arthroscopic Grasping & Biopsy Combo Rongeur Forceps**

Tubular shaft / serrated bite

- 1271-020 2.0 mm cup 4" (10 cm) shaft
- 1271-020R 2.0 mm cup 4" (10 cm) shaft
- 1271-016 2.7 mm cup 4" (10 cm) shaft
- 1271-018 3.4 mm cup 4" (10 cm) shaft
- 1271-021 2.0 mm cup 6" (15.5 cm) shaft
- 1271-021A 2.0 mm cup 6" (15.5 cm) shaft rear actuator handle



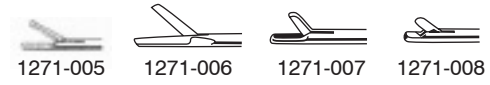
\* Available in 4.5 mm, please ask for details



**Mini Arthroscopic Small Joints Rongeur Set**

**Tubular 4" (10.2 cm) shaft / 2.0 mm jaws**

- 1271-005 grasping forceps
- 1271-005A grasping forceps rear actuator handle 6"
- 1271-006 fine scissors
- 1271-007 basket punch
- 1271-008 round cup biopsy rear actuator handle
- 1271-009 round cup biopsy



\* All tubular shaft instruments available upon request with rear actuator handles



**Frontal Sinus Giraffe Punch**

**Double Action Cup / 50 degree / 5 3/4" (14.6 cm) shaft**

- 468-340 vertical 2 mm
- 468-342 horizontal 2 mm

**Double Action Cup / 90 degree / 5 3/4" (14.6 cm) shaft**

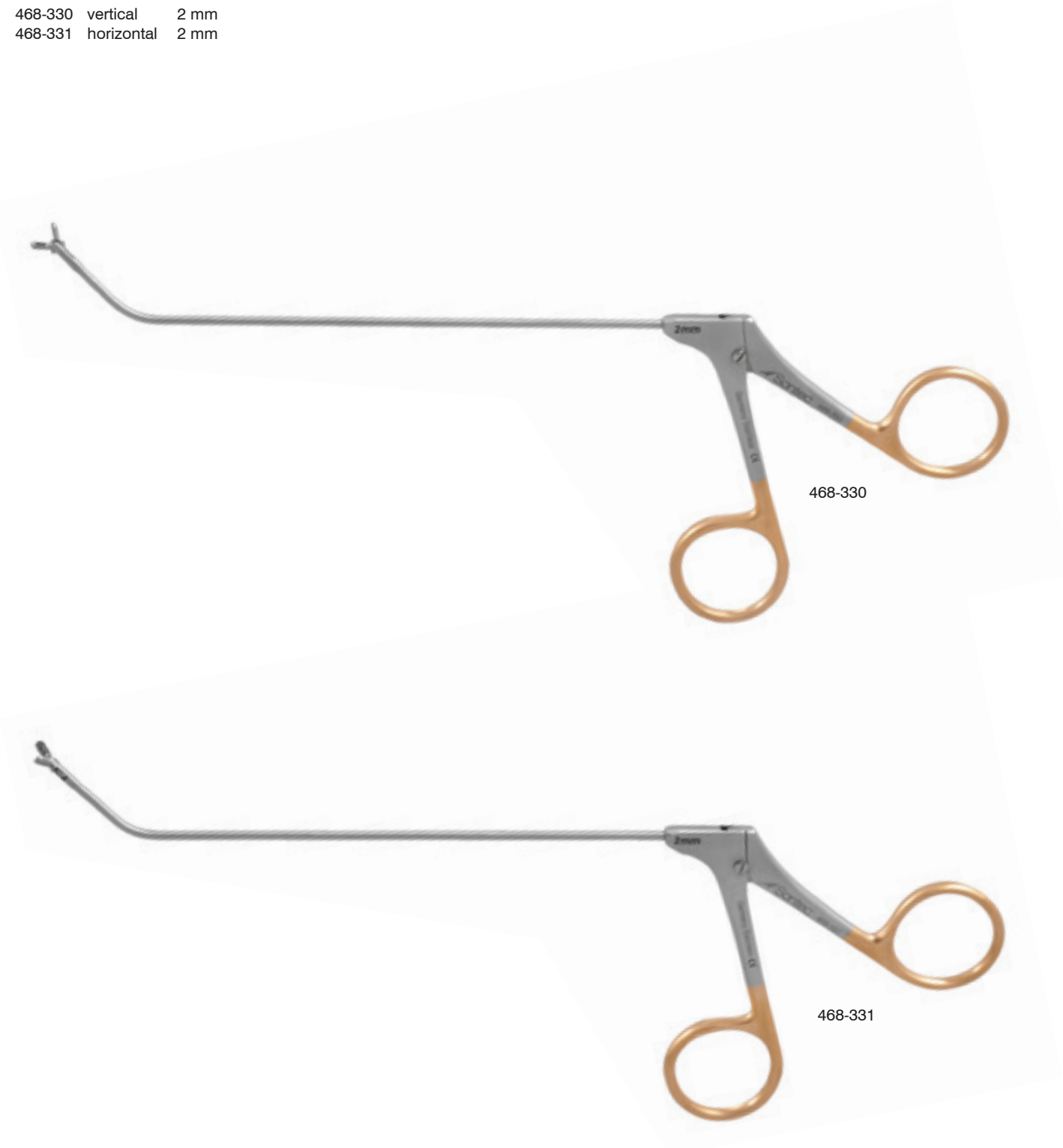
- 468-343 horizontal 2 mm
- 468-344 vertical 2 mm



**Frontal Sinus Giraffe Forceps**

Double Action Cup / 45 degrees / 5 1/4" (13.5 cm) shaft

- 468-330 vertical 2 mm
- 468-331 horizontal 2 mm



**Frontal Sinus Giraffe Forceps**

Double Action Cup / 45 degrees / 5 1/4" (13.5 cm) shaft

- 468-332 vertical 3 mm
- 468-333 horizontal 3 mm



**Frontal Sinus Giraffe Forceps**

Double Action Cup / 90 degrees / 5 1/4" (13.5 cm) shaft

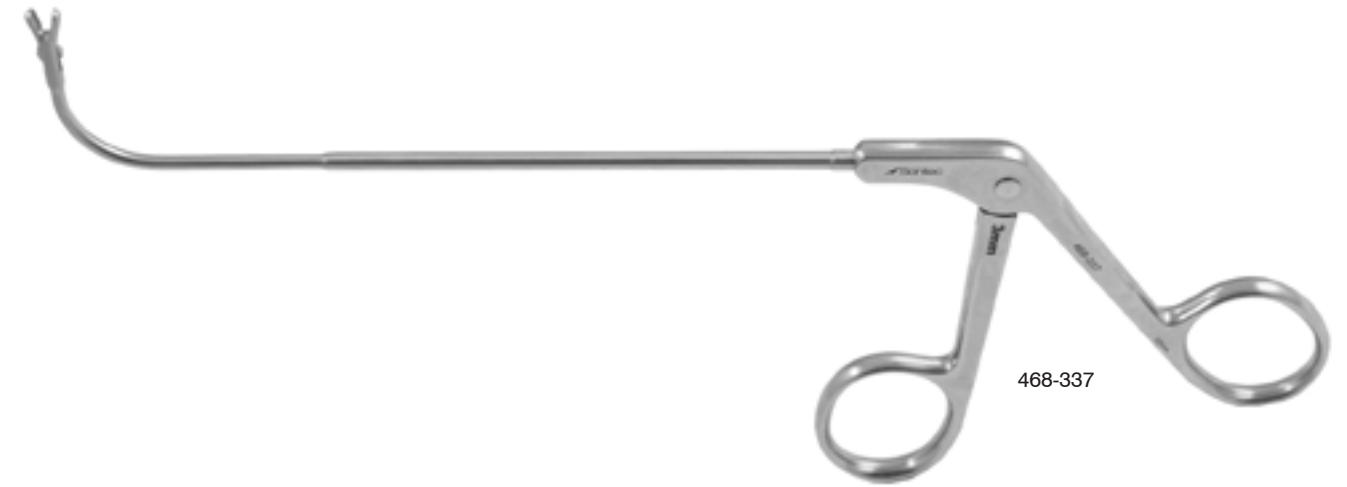
- 468-334 horizontal 2 mm
- 468-335 vertical 2 mm



**Frontal Sinus Giraffe Forceps**

Double Action Cup / 90 degrees / 5 1/4" (13.5 cm) shaft

- 468-336 horizontal 3 mm
- 468-337 vertical 3 mm



**Frontal Sinus Giraffe Forceps**

**Double Action Cup / 90 degrees / 5 1/4" (13.5 cm) shaft**

- 468-338 vertical 4 mm
- 468-339 horizontal 4 mm



**Frontal Sinus Giraffe Forceps**

**Double Action Cup / 70 degrees / 3 mm / 4 3/4" (12 cm) shaft**

- 468-321 horizontal
- 468-322 vertical

**Double Action Cup / 110 degrees / 3 mm / 4 3/4" (12 cm) shaft**

- 468-325 horizontal
- 468-326 vertical



**Frontal Sinus Giraffe Forceps**

Double Action Cup / 70 degrees/ 4 mm / 4 3/4" (12 cm) shaft

- 468-323 horizontal
- 468-324 vertical

Double Action Cup / 110 degrees/ 4 mm / 4 3/4" (12 cm) shaft

- 468-327 horizontal
- 468-328 vertical



468-323



468-324



468-327

468-328

**Micro Biopsy Forceps with Flexible Shaft**

Flexible shaft / 2.2 round cup jaw / 6" (15.2 cm) flexible shaft

1271-0156

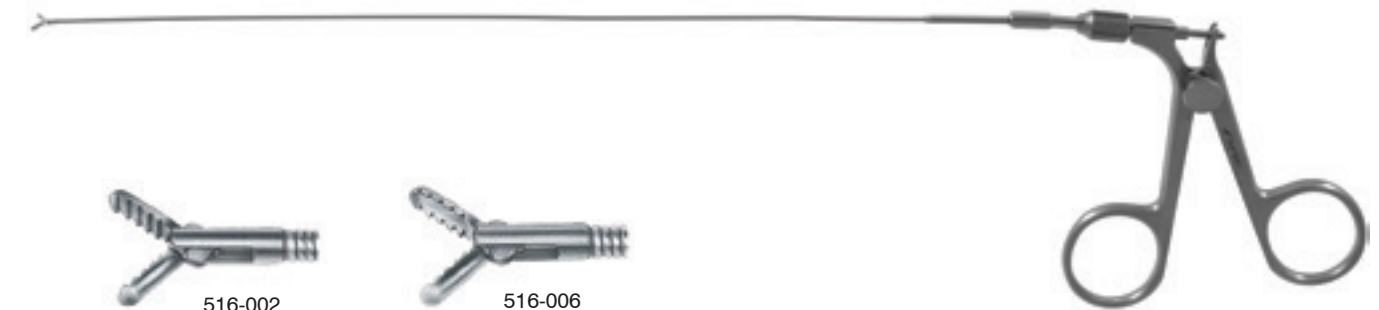


1271-0156

**Foreign Body Removal / Grasping Forceps**

Ring handle / flexible cable shaft designed to glide through desired scope

516-002	serrated jaw 1.2 mm	21 cm
516-003	serrated cup 1.2 mm	21 cm
516-005	serrated jaw 1.0 mm	40 cm
516-006	serrated cup 1.2 mm	40 cm
516-007	serrated jaw 1.2 mm	21 cm
516-008	serrated cup 1.2 mm	21 cm



516-002



516-006



516-003



516-007



516-005



516-008

**Jurasz Laryngeal Forceps**

**Single articulating jaws / 9" (23 cm)**

- 502-271 lateral opening jaws
- 502-272 vertical opening jaws left
- 502-273 lateral opening jaws right
- 502-274 vertical opening jaws

**Double articulating jaws / 9" (23 cm)**

- 502-275 lateral opening
- 502-276 vertical opening



502-272



502-273



502-274

**Fraenkel Laryngeal Forceps**

**Foreign body grasping forceps / double articulating jaws / vertical opening / 9" (23 cm)**

502-277

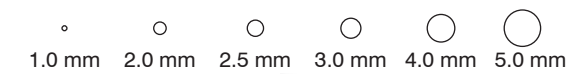


502-277

**Sontec Micro Biopsy Forceps**

**Round cup**

- |          |            |                     |           |
|----------|------------|---------------------|-----------|
| 469-062  | 1.0 mm cup | 3 1/4" (8 cm) shaft |           |
| 469-063  | 2.0 mm cup | 3 1/4" (8 cm) shaft |           |
| 469-063A | 2.0 mm cup | 3 1/4" (8 cm) shaft | angled up |
| 469-063M | 2.5 mm cup | 3 1/4" (8 cm) shaft |           |
| 469-063L | 3.0 mm cup | 3 1/4" (8 cm) shaft |           |
| 469-063X | 4.0 mm cup | 3 1/4" (8 cm) shaft |           |
| 469-081  | 1.0 mm cup | 6" (15 cm) shaft    |           |
| 469-082  | 2.0 mm cup | 6" (15 cm) shaft    |           |
| 469-080  | 2.5 mm cup | 6" (15 cm) shaft    |           |
| 469-083  | 3.0 mm cup | 6" (15 cm) shaft    |           |
| 469-084  | 4.0 mm cup | 6" (15 cm) shaft    |           |
| 469-085  | 5.0 mm cup | 6" (15 cm) shaft    |           |

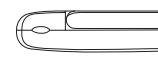
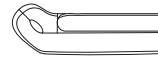


469-063M

**Jackson / Biopsy Forceps**

**Round cup / straight / 11" (28 cm) shaft**

- 1100-771A 2 mm cup
- 1100-769 4 mm cup
- 1100-770 6 mm cup



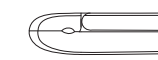
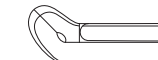
1100-710A



1100-718A

**Round cup / straight / 11 3/4" (29.75 cm) shaft**

- 1100-718A 2 mm cup
- 1100-718B 4 mm cup
- 1100-718C 6 mm cup



1100-710B



1100-718B

**Round cup / straight / 15 3/4" (40 cm) shaft**

- 1100-720A 2 mm cup
- 1100-720B 4 mm cup
- 1100-720C 6 mm cup



1100-710C



1100-718C

**Round cup / straight / 19 3/4" (51 cm) shaft**

- 1100-722A 2 mm cup
- 1100-722B 4 mm cup
- 1100-722C 6 mm cup

**Round cup / up-angled / 11" (28 cm) shaft**

- 1100-771B 2 mm cup

**Round cup / up-angled / 11 3/4" (29.75 cm) shaft**

- 1100-710A 2 mm cup
- 1100-710B 4 mm cup
- 1100-710C 6 mm cup



1100-710C

**Round cup / up-angled / 15 3/4" (40 cm) shaft**

- 1100-712A 2 mm cup
- 1100-712B 4 mm cup
- 1100-712C 6 mm cup

**Round cup / up-angled / 19 3/4" (51 cm) shaft**

- 1100-714A 2 mm cup
- 1100-714B 4 mm cup
- 1100-714C 6 mm cup

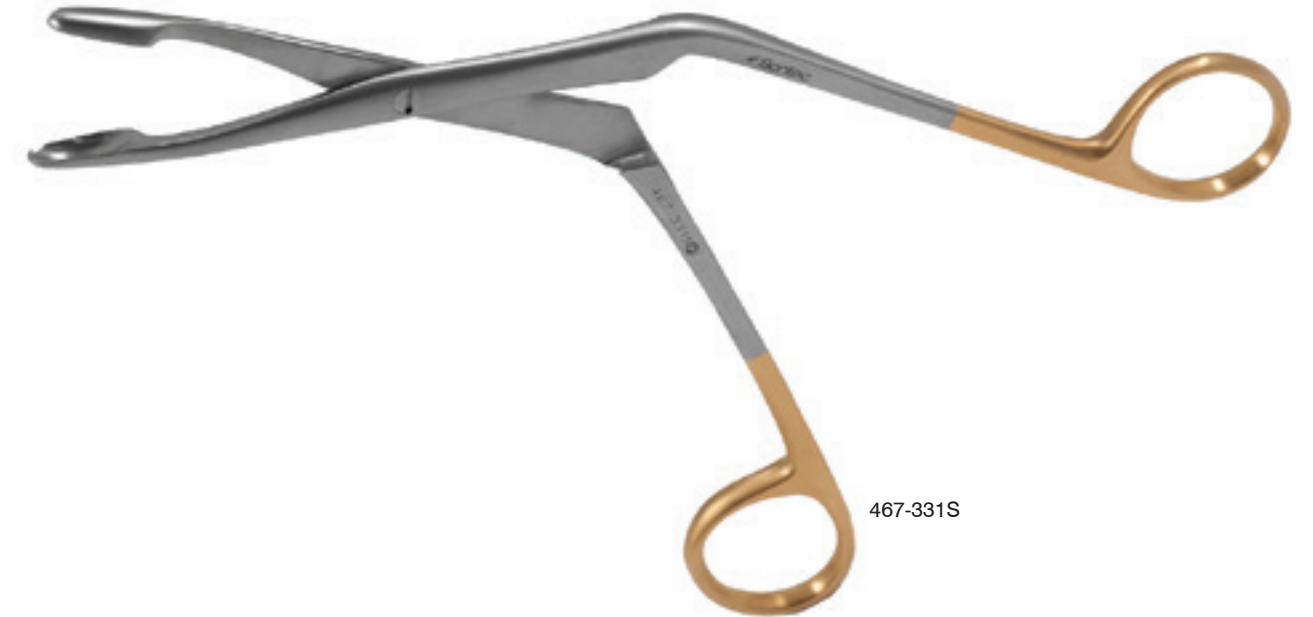
**Round cup / up-angled / 23 3/4" (61 cm) shaft**

- 1100-716A 2 mm cup
- 1100-716B 4 mm cup
- 1100-716C 6 mm cup

**Heyman Septum Alligator Forceps**

**Oval cup**

- 467-331S small
- 467-331M medium
- 467-331L large



467-331S

**Hartmann Nasal Alligator Forceps**

**Delicate / 7" (19 cm)**

- 467-333



467-333

**Hartmann Ear Alligator Forceps**

Delicate / 2 x 4 mm tip / 5" (12.5 cm)

467-335

Delicate / serrated jaw / 2.5 mm x 6 mm jaw / 5 1/4" (13.3 cm)

467-335E



467-335



467-335E

**Silver Ear Dressing Alligator Forceps**

2.5 mm x 8 mm / grooved jaw / 5 1/4" (13.3 cm)

467-336



467-336

**Tobey Ear Dressing Forceps**

Extra-delicate / 2 mm x 4 mm / 5 1/4" (13.3 cm)  
467-334



**Hartman Ear Forceps**

6 1/2" (16.5 cm)  
467-350



**Sontec Septal Platform Forceps**

7 1/4" (18.4 cm)  
467-332



467-332

**Sontec Septal Platform Forceps Titanium**

Serrated jaws / 11 mm x 21 mm / 7" (17.8 cm)  
469-033T



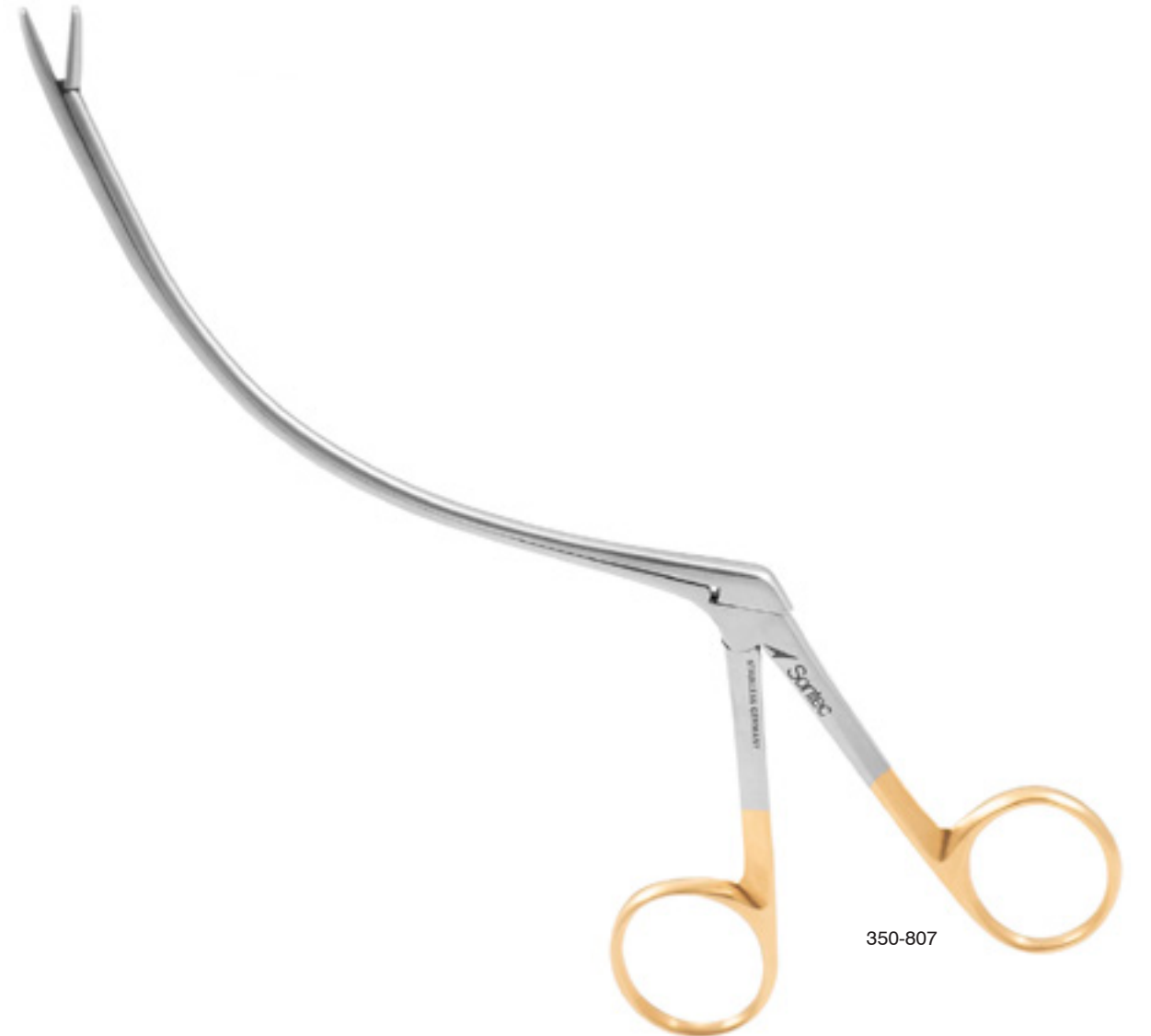
469-033T

**Carroll Tendon Pulling Forceps**

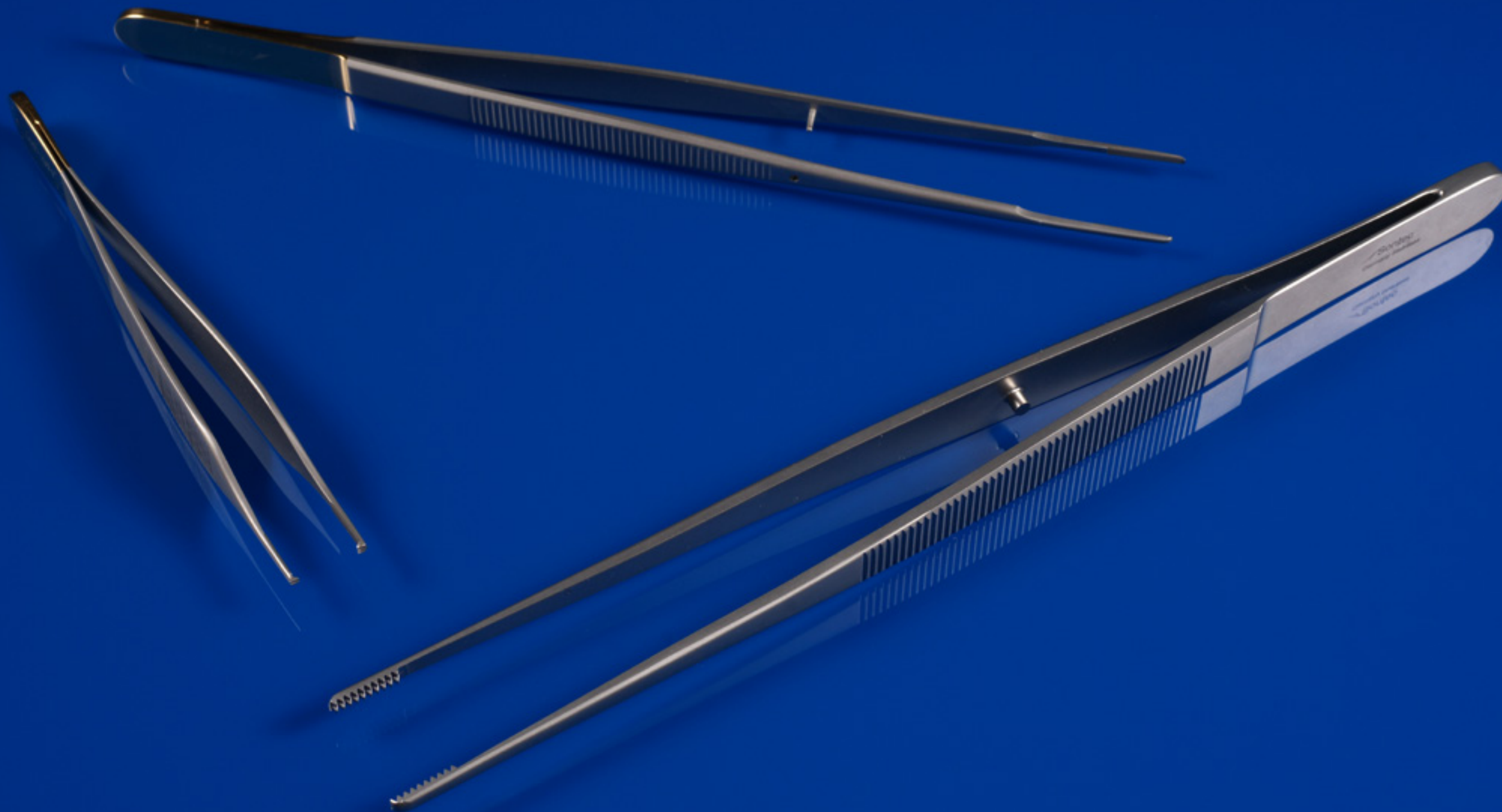
4.5" shaft (11.4 cm) / serrated jaws  
350-805 curved down  
350-807 curved up



350-805



350-807



 Sontec Instruments®

**FORCEPS Flat Handle**

**DeBakey Needle Pulling Tissue Forceps Titanium**

1 mm / atraumatic tip / straight / 9" (23 cm)

2600-5863 flat serrated handle

2 mm / atraumatic tip / straight / 8" (20.5 cm)

2600-5860 flat fenestrated handle

2600-5862 flat serrated handle



2600-5863



2600-5860



2600-5862

**DeBakey Vascular Forceps Titanium**

1 mm / straight / fenestrated handle

2600-3611 6" (15 cm) 5 hole handle

2600-3641 8" (20 cm) 6 hole handle

2600-3651 9 1/2" (24 cm) 6 hole handle



2600-3611



2600-3641

**DeBakey Forceps Titanium**

1.2 mm Tip / Tapered Shaft / Short Flat Handle / Straight / Lightweight / 7 3/4" (20cm)

2600-350



2600-350

**Micro Tying Forceps Titanium**

Flat handle / TC dust / straight / 0.4 mm / 6" (15 cm)

2600-499



2600-499

**Micro Tying Forceps**

Flat handle / TC dust / with platform / straight / 0.5 mm / 7 1/4" (18.4 cm)

2200-245



2200-245

**Micro Tying Forceps**

Flat serrated handle / straight / 0.75mm / 6" (15.2 cm)

2600-498



2600-498

**DeBakey Premier Knurled Handle Forceps Titanium**

Flat Handle / DeBakey tip

2600-340 1.8 mm tip 2 x 3 teeth 9 1/2"

2600-341 1.4 mm tip 2 x 3 teeth 9 1/2" delicate

2600-345 1.2 mm tip 1 x 2 teeth 7 3/4"



2600-340



2600-341



2600-345

**DeBakey Tissue Forceps Titanium**

**Atraumatic Jaw / straight**

2600-361	1 mm	6" (15 cm)
2600-355	1.5 mm	6" (15 cm)
2600-367	2 mm	6" (15 cm)
2600-362	1 mm	7" (17.8 cm)
2600-374	1.5 mm	7 1/4" (18.4 cm)
2600-373	3 mm	7 1/4" (18.4 cm)
2600-364	1 mm	7 3/4" (19.5 cm)
2600-363	1.5 mm	7 3/4" (19.5 cm)
2600-357	2.5 mm	7 3/4" (19.5 cm)
2600-369	2 mm	7 3/4" (19.5 cm)
2600-370	3 mm	7 3/4" (19.5 cm)
2600-366	1.2 mm	8" (20 cm)
2600-365	1 mm	9 1/2" (24 cm)
2600-359	2.7 mm	9 1/2" (24 cm)
2600-371	2 mm	9 1/2" (24 cm)
2600-3714	2 mm	12" (30.5 mm)



**Angled / 2 mm**

2600-375	6" (15 cm)
2600-376	7 1/4" (18.4 cm)
2600-377	7 3/4" (19.5 cm)
2600-379	9 1/2" (24 cm)



2600-366



2600-377



2600-357

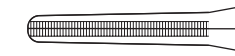


2600-370

**Original DeBakey Forceps**

**Flat Handle / 3.5 mm tip / 9 1/2" (24 cm)**

2200-114



2200-114

**DeBakey Vascular Forceps**

**6" (15 cm)**

1100-183 1.5 mm tip fenestrated handle



1.5 mm DeBakey tip



1100-183

**Dietrich-DeBakey Tissue Forceps**

**Flat handle / 1.5 mm tip**

442-236	6" (15 cm)
442-238	7 3/4" (19.5 cm)
442-239	7 3/4" (19.5 cm) 45° angle
442-240	9 1/2" (24 cm)



1.5 mm

**Flat handle / 1.2 mm tip / with pin / 7 3/4"**

442-238P



442-236



442-238



442-239

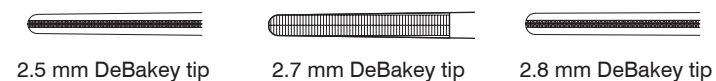


442-238P

### DeBakey Tissue Forceps

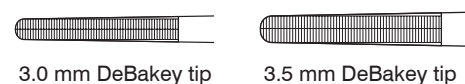
#### Flat handle / 6" (15 cm)

- 2200-101 1.0 mm tip
- 2200-101A 1.5 mm tip
- 2200-105 2.0 mm tip
- 2200-105A 2.5 mm tip
- 2200-105B 2.8 mm tip



#### Flat handle / 7 3/4" (19.5 cm)

- 2200-102 1.0 mm tip
- 2200-102A 1.5 mm tip
- 2200-107 2.0 mm tip
- 2200-110 2.7 mm tip
- 2200-112 3.5 mm tip



#### Flat handle / 9 1/2" (24 cm)

- 2200-103 1.5 mm tip
- 2200-108 2.0 mm tip
- 2200-111 2.7 mm tip
- 2200-1133 3.0 mm tip
- 2200-113 3.5 mm tip

#### Flat handle / 12" (30 cm)

- 2200-104 1.5 mm tip
- 2200-109 2.0 mm tip
- 2200-1112 2.7 mm tip
- 2200-1132 3.5 mm tip

#### With pin / flat handle / 7 3/4" (19.5 cm)

- 2200-107P 2.0 mm tip
- 2200-110P 2.7 mm tip

#### With pin / flat handle / 9 1/2" (24 cm)

- 2200-108P 2.0 mm tip
- 2200-111P 2.7 mm tip

#### With pin / flat handle / 12" (30 cm)

- 2200-1112P 2.7 mm tip

\* other sizes available with pin upon request.



2200-105



2200-110P



2200-111P

### DeBakey Needle-Pulling Tissue Forceps

#### Flat handle / TC platform / 6" (15 cm)

- 2200-074 1.0 mm
- 2200-077 1.2 mm
- 2200-078 1.5 mm
- 2200-080 2.0 mm
- 2200-079 2.7 mm
- 2200-081 3.5 mm



#### Flat handle / TC platform / 8" (20 cm)

- 2200-075 1.0 mm
- 2200-096 1.2 mm
- 2200-097 1.5 mm
- 2200-100 2.0 mm
- 2200-099 2.7 mm
- 2200-099P 2.7 mm with guide pin
- 2200-098 3.2 mm
- 2200-098P 3.2 mm with guide pin



2200-097

#### Flat handle / TC platform / 9 1/2" (24 cm)

- 2200-076 1.0 mm
- 2200-085 1.5 mm
- 2200-092 2.0 mm
- 2200-091 2.7 mm
- 2200-090 3.5 mm
- 2200-090P 3.5 mm with guide pin

#### Flat handle / TC platform / 12" (30 cm)

- 2200-0922 2 mm
- 2200-0912 2.7 mm
- 2200-0902 3.5 mm

### DeBakey Angled Tissue Forceps

#### Flat Handle / 40° angle

- 2200-106 2.0 mm 6"
- 2200-107C 2.0 mm 7 3/4"
- 2200-107A 2.7 mm 7 3/4"
- 2200-103A 1.5 mm 9 1/2"
- 2200-108A 2.0 mm 9 1/2"
- 2200-1132A 3.5 mm 12"



2200-107C



2200-103A

**DeBakey Thoracic Forceps**

**Flat handle / 2.5 mm tip**

- 442-210 6" (15 cm)
- 442-212 7 3/4" (20 cm)
- 442-214 9 1/2" (24 cm)
- 442-216 12" (30.5 cm)

**Flat handle / 2.8 mm tip / 12" (30.5 cm)**

442-219

**Flat handle / 3.5 mm tip / 14" (35.5 cm)**

442-215



**DeBakey Thoracic Forceps**

**Flat handle / 3.0 mm tip**

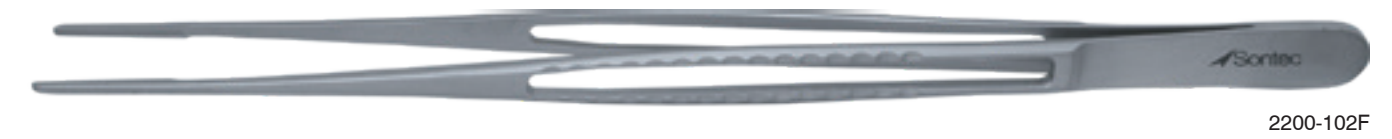
- 442-2103 6" (15.24 cm)
- 442-2123 7 3/4" (20 cm)
- 442-2143 9 1/2" (24.13)
- 442-218 10" (25.4 cm)



**DeBakey Ergonomic-Handle Forceps**

**Extra lightweight / 1.0 mm tip / fenestrated handle**

- 2200-101F 6" (15 cm)
- 2200-102F 7 7/8" (20 cm)
- 2200-103F 9 1/2" (24 cm)
- 2200-104F 12" (30 cm)



**DeBakey Ergonomic-Handle Forceps Titanium**

**Extra lightweight / 1.0 mm tip / fenestrated handle / 9 1/2" (24 cm)**

2600-593 9 1/2" (24 cm)



**Electro Blue Coated DeBakey Forceps**

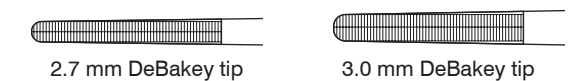
**Monopolar use / insulated / 2.0 mm tip / flat handle**

- 2200-105C 6" (15 cm)
- 2200-107B 7 3/4" (19.5 cm)
- 2200-108B 9 1/2" (24 cm)
- 2200-109B 12" (30 cm)



**Monopolar use / insulated / flat handle / 12" (30 cm)**

- 2200-1112B 2.7 mm tip
- 2200-1132B 3.0 mm tip



**Cooley Vascular Tissue Forceps**

**2.0 mm tip**

- 442-242 6 1/4" (16 cm)
- 442-244 7 3/4" (19.5 cm)
- 442-246 9 1/2" (24 cm)



442-244

**Gerald Tissue Forceps**

**DeBakey tip / 1 mm tip / 7" (18 cm)**

2200-150

**DeBakey tip / 8" (20.5 cm)**

- 2200-152 1 mm tip
- 2200-152N 1.5mm tip narrow handle



DeBakey tip



2200-150



2200-152N

**Gerald Brown Tissue Forceps**

**Flat handle / 8x8 teeth / 7" (18 cm)**

140-389



140-389

**Gerald Lightweight Micro Tissue Forceps Titanium**

**1 mm tip / TC Dust**

- 2600-384 7" (18 cm)
- 2600-388 8" (20 cm)

**Serrated tip / dressing**

- 2600-385 7" (18 cm)
- 2600-385S 8" (20 cm)

**Tissue / 1 x 2 Teeth**

- 2600-387 7" (18 cm)
- 2600-389 8" (20 cm)

**1 mm platform Tip / TC Dust**

- 2600-490 7" (18 cm)
- 2600-491 8" (20 cm)

**1 mm ring Tip / TC Dust**

- 2600-492 7" (18 cm)
- 2600-493 8" (20 cm)

**1 mm DeBakey Tip**

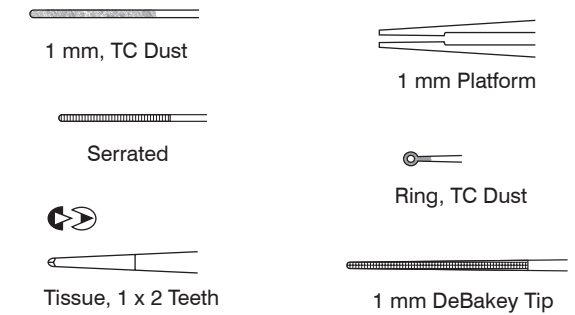
- 2600-495 7" (18 cm)
- 2600-496 8 1/4" (21 cm)
- 2600-497 7 7/8" (20 cm) wide handle
- 2600-494D 9 1/2" (24 cm)

**1 mm serrated tip**

- 2600-494 9 1/2" (24.1 cm)
- 2600-494A 9 1/2" (24.1 cm) 45° angled on the flat

**1 mm platform ring tip / TC Dust**

- 2600-492P 7" (17.8 cm)
- 2600-493P 8" (20.3 cm)
- 2600-493P1 9" (22.9 cm)



2600-490

2600-491



2600-496



2600-497



2600-495



2600-494

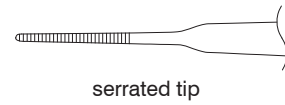


2600-494A

**Gerald Tissue Forceps**

**Serrated / 7" (18 cm)**

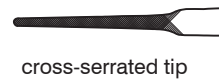
- 2200-130 straight
- 2200-131 curved



2200-130

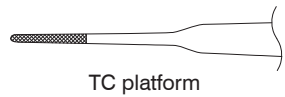
**Cross-serrated**

- 2200-132 7 3/4" (18 cm)
- 2200-133 8" (20.5 cm)
- 2200-135 9" (23 cm)
- 2200-134 10" (25.5 cm)



**TC platform**

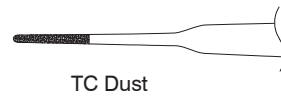
- 2200-142 7" (18 cm)
- 2200-144 8" (20.5 cm)
- 2200-145 9" (23 cm)
- 2200-141A 9" (23 cm) 45° angle
- 2200-146 10" (25.5 cm)



2200-142

**TC dust**

- 2200-138 7" (18 cm)
- 2200-140 8" (20.5 cm)
- 2200-141 9" (23 cm)



**TC dust / ring tip / 7" (18 cm)**

- 2200-154 straight
- 2200-155 curved



**Delicate / straight / 1 x 2 teeth / 0.5 mm micro tip / 7" (18 cm)**

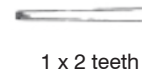
- 2200-1365



2200-1365

**1 x 2 teeth / 0.8 mm tip / micro / 7" (18 cm)**

- 2200-136 straight
- 2200-137 curved



**1 x 2 teeth / 1 mm tip / 7" (18 cm)**

- 140-372 straight TC serrated
- 140-374 curved TC serrated
- 2200-129 straight



140-372

**Micro Gerald Tissue Forceps**

**Round handle / TC serrated platform / 0.9 mm tip**

- 2200-1431 7 1/4"
- 2200-1441 8 1/4"



2200-1431

**Brown Tissue Forceps**

**9 x 9 teeth**

- 136-690 6" (15.5 cm)
- 136-692 8" (20.5 cm)
- 136-694 10" (25.5 cm)



136-690

**9 x 9 teeth / TC**

- 136-691 6" (15.5 cm)
- 136-695 10" (25.4 cm)

**McGravey Tissue Forceps**

**5 x 6 delicate teeth**

- 136-766 7" (18 cm)
- 136-767 9" (22.9 cm)



136-766

**Russian Tissue Forceps**

- 136-771 6" (15.5 cm)
- 136-773 8" (20.5 cm)
- 136-775 10" (25.5 cm)
- 136-776 12" (30.5 cm)



136-773

**Sontec D'Errico Tissue Forceps**

- 136-769 7 1/4" (18.45 cm)



136-769

**Selman Tissue Forceps**

**Round cup teeth**

- 142-112 6" (15.5 cm)
- 142-113 8" (20.3 cm)
- 142-114 10" (25.4 cm)



142-113

**Singly Tuttle Forceps**

**Serrated**

- 142-103 6" (15 cm)
- 142-108 7" (18 cm)
- 142-110 9" (23 cm)
- 2200-0175 9" (23 cm) large ring
- 142-107 10" (25 cm)
- 142-111 12" (30 cm)
- 142-104 14" (35.5 cm)
- 142-106 16" (40.5 cm)



142-108



**Wangensteen Tissue Forceps**

**TC Serrated**

- 2200-015 6" (15 cm)
- 2200-016 8" (20 cm)
- 2200-017 9" (23 cm)
- 2200-018 10" (25.5 cm)



2200-017

**Evans Tissue Forceps**

**TC serrated / 10" (25 cm)**

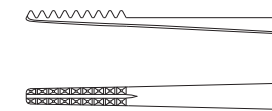
- 2200-382



2200-382

**Resano Brown Vascular Forceps**

- 2200-376 7 1/8" (18.25 cm) 9 x 9
- 2200-377 9 1/8" (23.5 cm) 9 x 9
- 2200-377W 9 1/8" (23.5 cm) wide handle 11 x 11
- 2200-378 12 1/2" (31 cm) 9 x 9



2200-376



2200-377



2200-377W



2200-378

**Resano Brown Vascular Forceps**

- 2200-361 7 1/8" (18.5 cm) 9 x 9 TC platform
- 2200-362 9 1/8" (23.5 cm) 9 x 9 TC platform
- 2200-362W 9 1/8" (23.5 cm) 11x11 TC platform wide handle



2200-361



2200-362

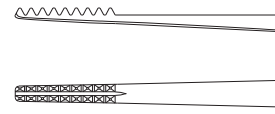


2200-362W

**Resano Brown Vascular Forceps Titanium**

**9 x 9 teeth**

- 2600-380 7 1/8" (18cm)
- 2600-381 9 1/8" (23.5 cm) wide handle
- 2600-382 12" (30 cm)



2600-380



2600-381

**Resano Double Action Vascular Forceps Titanium**

**Double action / straight**

- 2601-300 11" (28 cm)



**Potts Smith Tissue Forceps**

**1 mm tip**

- 2200-030 6 1/4" (16 cm) TC dust
- 2200-032 7 1/8" (19 cm) TC dust
- 2200-034 8" (20 cm) TC dust
- 2200-036 9 3/4" (24 cm) TC dust
- 2200-029 9" (23 cm) TC serrated



2200-032

**2 mm Tip / TC Dust**

- 2200-040 6 1/4" (16 cm)
- 2200-042 7 1/8" (19 cm)
- 2200-044 8" (20 cm)
- 2200-046 9 3/4" (24 cm)



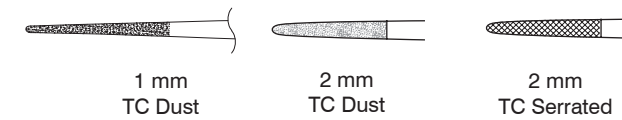
2200-046

**2 mm Tip / TC Serrated**

- 2200-041 6 1/2" (16.5 cm)
- 2200-043 7" (18 cm)
- 2200-045 8" (20 cm)
- 2200-0459 9" (23 cm)
- 2200-047 10" (25 cm)



2200-047



**Potts Cooley Tissue Forceps**

Serrated / 1 mm

- 2205-650 7 3/4" (19.7 cm)
- 2205-655 9 1/2" (23.5 cm)



2205-655

**Electro Blue Coated Potts-Smith Tissue Forceps**

Monopolar use / TC serrated platform / insulated / flat handle / 9 1/4" (23.5 cm)

- 2200-073B straight 2.5 mm tip 9 1/4" (23.5 cm)
- 2200-074B angled 2.5 mm tip 9 1/4" (23.5 cm)
- 2200-073C straight 1.5 mm tip 9" (22.9 cm) 1x2 teeth
- 2200-073D straight 2.5 mm tip 9 3/4" (24.8 cm)



2200-073B



2200-074B



2200-073C



2200-073D

**Potts Nevins Forceps**

TC serrated / 1.8 mm tip / 7 1/4" (18.4 cm)

140-273



140-273

**Potts-Smith Dressing**

Serrated

- 136-730 7" (18 cm)
- 136-738 8" (20.3 cm)
- 136-735 8 1/4" (21 cm)
- 136-740 9 1/2" (24 cm)
- 136-746 12" (30 cm)



136-740

**Potts-Smith Tissue Forceps**

Serrated / 1 x 2 teeth

- 136-732 7" (18 cm)
- 136-737 8 1/4" (21 cm)
- 136-742 9 1/2" (24 cm)
- 136-748 12" (30 cm)



136-737

**Reul Coronary Artery Forceps**

TC serrated / 1 mm / 8" (20 cm)

2200-126



2200-126

**Cushing Tying Forceps**

Standard / straight tip / 7" (18 cm)

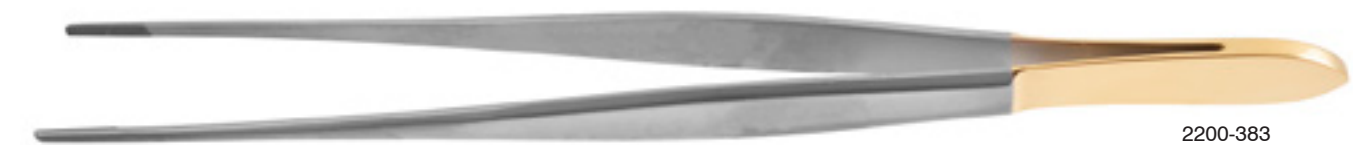
- 2200-789 serrated
- 2200-790 1x2 teeth



2200-789

TC insert platform / straight tip

- 2200-383 7" (18 cm)



2200-383

TC insert platform / 7" (18 cm)

- 2200-387 angled tip
- 2200-389 straight tip 1x2 teeth

TC insert platform / straight tip / serrated

- 2200-394 8 1/4" (21 cm)
- 2200-396 10" (25 cm)



Straight



Angled

**Cushing Forceps Titanium**

1 mm Tip / serrated / lightweight

- 2600-335 7" (18cm)
- 2600-339 8 1/4" (21cm)



2600-335

1 mm



2600-339

**Thumb Forceps Titanium**

Serrated Handle / TC Dust tip

- 136-612T 6 1/4" (16 cm)
- 136-616T 7 7/8" (20 cm)



136-612T



136-616T

**Tissue Forceps with TC Inserts**

TC platform / 6" (15.2 cm)

- 1100-732 1 x 2 teeth
- 1100-733 2 x 3 teeth
- 1100-7334 3 x 4 teeth
- 1100-7335 4 x 5 teeth



1100-733

**Skinner Tissue Forceps**

1 x 2 teeth / TC platform / 8" (20.5 cm)

- 140-517M micro
- 140-517 delicate
- 140-517G standard



standard tip

delicate tip

micro tip

1 x 2 teeth / TC platform / 9" (23 cm)

- 140-379 micro
- 140-378 delicate
- 140-376 standard

1 x 2 teeth / TC platform / 10" (25.5 cm)

- 140-519M micro
- 140-519 delicate
- 140-519G standard



140-376

**Electro Blue Coated Skinner Tissue Forceps**

Monopolar use / TC serrated platform / 1 x 2 teeth / insulated / 9" (22.9 cm)

140-376B



140-376B

**Semken Forceps**

Dressing / serrated

136-702 4 3/4" (12 cm)

136-704 6" (15.5 cm)

Tissue / 1 x 2 teeth / delicate / 0.7mm tip / 4 3/4" (12 cm)

136-701

Tissue / 1 x 2 teeth

136-706 5" (13 cm)

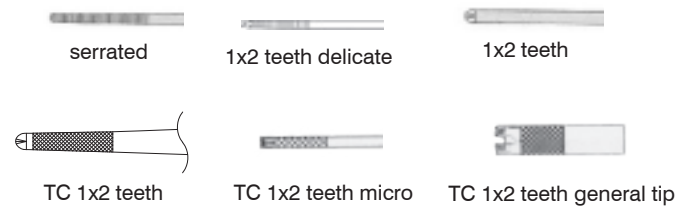
136-708 6" (15.5 cm)

Tissue / TC platform / 1 x 2 teeth

140-350 5 3/4" (15 cm)

140-358 6 1/4" (16 cm)

140-364 7" (18 cm)



140-350



140-364

Tissue / TC platform / 1 x 2 teeth / micro

140-352 5 3/4" (15 cm)

140-360 6 1/4" (16 cm)

140-366 7" (18 cm)

Tissue / TC platform 1 x 2 teeth / general

140-354 5 3/4" (15 cm)

140-362 6 1/4" (16 cm)

140-368 7" (18 cm)

140-369 8" (20.5 cm)

**Ferris-Smith Tissue Forceps**

6 3/4" (17 cm)

136-711 1x2 teeth

136-712 2x3 teeth

140-382 2x3 teeth TC platform

140-3821 1x2 teeth TC platform



136-712



140-382



140-3821

**Oehler Forceps**

TC serrated / 1 x 2 teeth

140-512 6 1/2" (16.5 cm)

140-514 7" (17.8 cm)



140-512



140-514

**Tissue Forceps with Teeth**

**1 x 2 teeth**

136-621	4 1/2" (11.5 cm)	
136-624	5" (12.7 cm)	
136-626	5 1/2" (14 cm)	
136-626F	5 1/2" (14 cm)	fine tip
136-629	6" (15.5 cm)	
136-632	7" (18 cm)	
136-632B	7" (18 cm)	electro blue coated
136-634	8" (20.5 cm)	
136-634D	8" (20.5 cm)	delicate
136-636	10" (25.5 cm)	
136-636D	10" (25.5 cm)	delicate



136-632B



136-626F



136-634B

**2 x 3 teeth**

136-639	5" (12.7 cm)	
136-633	5" (12.7 cm)	TC serrated
136-640	5 1/2" (14 cm)	
136-637	5 1/2" (14 cm)	TC serrated
136-642	6" (15.5 cm)	
1100-179	6 1/4" (16 cm)	
136-641	6 1/4" (16 cm)	TC serrated
1100-165	7" (18 cm)	
136-643	7" (18 cm)	TC serrated
1100-167	8" (20 cm)	
136-645	8" (20 cm)	TC serrated
1100-187	9 3/4" (25 cm)	
136-649	9 3/4" (25 cm)	TC serrated
1100-169	10" (25 cm)	
136-651	10" (25 cm)	TC serrated



136-640

**3 x 4 teeth**

136-644	5 1/2" (14 cm)	
136-652	5 1/2" (14 cm)	TC serrated
136-646	6" (15 cm)	

**4 x 5 teeth**

136-648	5 1/2" (14 cm)	
136-653	5 1/2" (14 cm)	TC serrated
136-650	6" (15.5 cm)	
136-6508	8" (20.3 cm)	

**McIndoe Forceps Titanium**

Fine tip / serrated handle / serrated / 6" (15.2 cm)

2600-391	1 x 2 teeth
2600-392	serrated



2600-391



2600-392

**McIndoe Dressing and Tissue Forceps**

Fine serrations / 6" (15 cm)

2200-750



2200-750

Cross serrations with 1x2 teeth / 6" (15 cm)

2200-752



2200-752

**Thumb Dressing Forceps**

**Serrated**

136-600	4" (10 cm)
136-602	4 1/2" (11.5 cm)
136-605	5" (13 cm)
136-607	5 1/2" (14 cm)
136-610	6" (15.5 cm)
136-613	7" (18 cm)
136-615	8" (20.5 cm)
136-617	10" (25.5 cm)
136-619	12" (30.5 cm)



**TC serrated**

1100-739B	6" (15.5 cm)
1100-739A	7" (18 cm)



136-607

**Ferlit Micro Forceps**

**1 x 2 teeth / cross serrated tying platform**

140-504A	7" (18cm)	1.5 mm
140-504B	4" (10cm)	0.9 mm

**1 x 2 teeth / TC Dust / 0.5 mm teeth / 4 1/4" (10.8 cm)**

140-505T



platform



140-505T



140-504B



**Bonney Tissue Forceps**

**Serrated / 6 3/4" (17 cm)**

140-502	1 x 2 teeth	TC serrated
136-578	2 x 3 teeth	serrated

**1 x 2 / 7" (18 cm)**

136-580	serrated
140-500	TC serrated



1 x 2 teeth



2 x 3 teeth



140-502



136-578



136-580

**Duehrssen Tissue Forceps**

1 x 2 teeth / 8" (20.3 cm)  
136-590



136-590

**Gillies Forceps**

Fine serrations / 1 x 2 teeth / 6" (15 cm)  
2200-700



2200-700

**Long Tissue Forceps**

12" (30 cm)

1100-859 1 x 2 teeth  
1100-858 2 x 3 teeth



1 x 2 teeth



2 x 3 teeth



TC platform



1100-859

TC platform / 12" (30 cm)

1100-863 1 x 2 teeth  
1100-862 2 x 3 teeth

14" (35.5 cm)

1100-874 1 x 2 teeth  
1100-878 2 x 3 teeth

TC platform / 14" (35.5 cm)

1100-875 1 x 2 teeth  
1100-879 2 x 3 teeth

16" (40.5 cm)

1100-876 1 x 2 teeth  
1100-880 2 x 3 teeth



1100-880

TC platform / 16" (40.5 cm)

1100-877 1 x 2 teeth  
1100-881 2 x 3 teeth



1100-861

18" (45.5 cm)

1100-861 1 x 2 teeth  
1100-860 2 x 3 teeth



1100-861

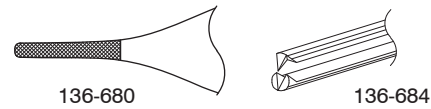
TC platform / 18" (45.5 cm)

1100-865 1 x 2 teeth  
1100-864 2 x 3 teeth

**Hudson-Ewald Forceps**

Heavy / serrated adson handle / 4 3/4" (12 cm)

- 136-684 1 x 2 teeth
- 136-680 serrated tip



**Troutman Micro Hook Forceps**

With tying platform / TC dust / round handle

- 199-365S 5" (12.5 cm)
- 199-365 6 1/4" (16 cm)
- 199-365T 6 1/4" (16 cm) titanium

Adson handle

- 199-368 4 3/4" (12 cm)



**Adson Tissue Forceps Titanium**

TC dust / 1.0 mm tips / 4 3/4" (12 cm)

- 140-298T



**Adson Tissue Forceps Titanium**

1 x 2 / TC dust / tying platform / 4 3/4" (12 cm)

- 140-304T



**Adson Tissue Forceps Titanium**

TC dust / with tying platform / 0.6 mm / 4 3/4" (12 cm)

- 140-296T



**Adson Tissue Forceps Titanium**

TC dust / 0.3 mm / 1 x 2 tip / 4 3/4" (12 cm)

- 140-297T



**Adson Tissue Forceps Titanium**

With tying platform / TC dust / 1x2 teeth / 6" (15.2 cm)

- 2600-307



**Adson Tissue Forceps Titanium**

Serrated handle / TC dust / 0.5 mm / 1 x 2 tip / 4 3/4" (12 cm)

- 140-302T



**Adson-Harris Ring Tip Forceps Titanium**

Fenestrated / 1 mm ring-tip / TC dust / 4 3/4" (12 cm)

- 1103-812T



**Adson Tissue Forceps Titanium**

1 x 2 Teeth

- 2600-302 4 3/4"
- 2600-311 5 7/8"



**Gorney-Adson Forceps**

1 x 2 teeth with platform / stop pin / 4 3/4" (12 cm)

- 136-6741



**DeBakey-Adson Tissue Forceps**

1.5 mm / atraumatic DeBakey jaws / 4 3/4" (12 cm)

- 1100-185



**Adson Tissue Forceps**

**1 x 2 teeth / serrated handle / 4 3/4"**

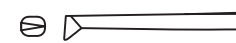
- 136-668 0.8 mm
- 136-666 1.3 mm
- 136-672 1.3 mm 45° angled tips



136-666

**1 x 2 teeth / serrated handle / 6"**

- 136-683 0.8 mm
- 136-682 1.3 mm



**1 x 2 teeth / serrated handle / TC dust platform / 6"**

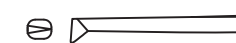
- 136-682P 1.3 mm



136-672

**1 x 2 teeth / fenestrated handle / 4 3/4"**

- 136-669 1.0 mm
- 136-667 1.3 mm



**2 x 3 teeth / serrated handle / 4 3/4"**

- 136-676 1.0 mm



136-682P



136-669



136-676



2 x 3 teeth

**Beasley-Babcock Tissue Forceps**

**Serrated adson handle / 5 x 6 teeth / 5" (13 cm)**

- 136-699



136-699



**Adson Tissue Smooth Platform Forceps**

**1 x 2 teeth / smooth platform / serrated handle / 4 3/4"**

- 136-668A 0.8 mm
- 136-674D 1.0 mm
- 136-674 1.3 mm



136-674



**1 x 2 teeth / smooth platform / fenestrated handle / 4 3/4"**

- 136-679 1.3 mm



136-679

**Adson Tissue TC Dust Platform Forceps**

**1 x 2 teeth / TC Dust platform / serrated handle / 4 3/4"**

- 140-302D 0.8 mm
- 140-302 1.0 mm

**1 x 2 teeth / TC Dust platform / fenestrated handle / 4 3/4"**

- 140-302F 0.8 mm
- 140-303F 1.0 mm

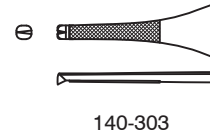


140-303F

**Adson Tissue TC Serrated Platform Forceps**

1 x 2 teeth / TC serrated platform / serrated handle / 4 3/4"

- 140-305 1.0 mm
- 140-304 1.3 mm
- 140-303 1.8 mm



140-304

1 x 2 teeth / TC serrated platform / serrated handle / 6"

- 140-207 0.8 mm
- 140-309 1.0 mm
- 140-202 1.3 mm
- 140-203 1.8 mm



140-309

1 x 2 teeth / TC serrated platform / fenestrated handle / 4 3/4"

- 140-305F 1.0 mm
- 140-3042 1.3 mm
- 140-3032 1.8 mm



140-305F

2 x 3 teeth / TC serrated platform / serrated handle / 4 3/4"

- 140-306 0.8 mm
- 140-307 2.0 mm



140-307

2 x 3 teeth / TC serrated platform / fenestrated handle / 4 3/4"

- 140-304F 1.0 mm



140-304F

**Adson Tissue Cross Serrated Forceps**

1 x 2 teeth / cross-serrated platform / serrated handle / 4 3/4"

- 136-678 1.3 mm

1 x 2 teeth / cross-serrated platform / serrated handle / 6"

- 136-678L 1.8 mm

1 x 2 teeth / cross-serrated platform / fenestrated handle / 4 3/4"

- 136-679S 1.3 mm



136-678L



136-679S

**Adson Dressing Serrated Forceps**

Serrated tip / serrated handle / 4 3/4"

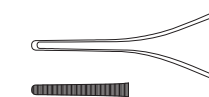
- 136-6621T 0.4 mm
- 136-6601 0.5 mm
- 136-662 0.8 mm
- 136-662T 0.8 mm
- 136-660 1.3 mm
- 136-660A 1.3 mm angled



136-660

Serrated tip / fenestrated handle / 4 3/4"

- 136-663 0.8 mm
- 136-661 1.3 mm

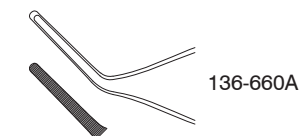


Serrated tip / serrated handle / 6"

- 140-198 1.3 mm



136-6621T



136-660A



136-662T

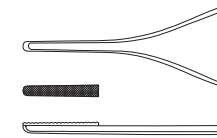
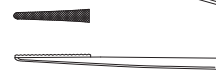
**Adson Dressing TC Serrated Platform Forceps**

TC Serrated platform / serrated handle / 4 3/4"

- 140-299 0.8 mm
- 140-301 1.3 mm

TC Serrated platform / serrated handle / 6"

- 140-201 1.3 mm



140-301

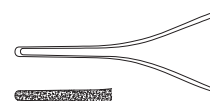
**Adson Dressing TC Dust Forceps**

TC Dust / serrated handle / 4 3/4"

- 140-298 1.3 mm
- 140-297 1.3 mm platform

TC Dust / serrated handle / 6"

- 140-205 1.3 mm
- 140-204 1.3 mm platform



140-297

**Adson Dressing Cross-Serrated Forceps**

Cross-serrated tip / serrated handle / 4 3/4"

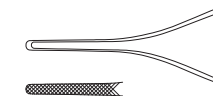
- 136-664D 0.8 mm
- 136-664 1.3 mm

Cross-serrated tip / fenestrated handle / 4 3/4"

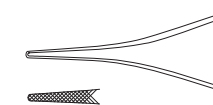
- 136-665 1.3 mm



136-664



136-664D



**Adson-Derlacki Forceps**

Serrated handle / 9x9 teeth / screw lock / 4 3/4" (12 mm)

- 136-6861



136-6861

**Adson Helms Forceps**

Serrated handle / 6" (15 mm)

- 2200-066



2200-066

**Adson Forceps with Skin Hook**

Attached thumb ring / 1x2 teeth / 2 sharp prong

475-492 4" (10 cm)  
475-490 6 1/4" (16 cm)



475-492

**Broli-Adson Forceps**

1.2 mm Tip / TC Dust / straight / 6" (15 mm)

2200-062



2200-062

1.2 mm Tip / 1 x 2 Teeth / straight / 6" (15 mm)

2200-064

1.2 mm Tip / Serrated 6" (15 mm)

2200-058 straight  
2200-060 curved

**Brown Adson Tissue Forceps Titanium**

1.8 mm tips / 7x7 teeth

T136-688 4 3/4" (12 cm) fenestrated handle  
136-688T 6" (15.2 cm)



T136-688

1.8 mm tips / 9x9 teeth / 4 3/4" (12 cm)

T136-686 4 3/4" (12 cm)



136-688T



T136-686

**Brown-Adson Tissue Forceps**

Serrated handle / 7 x 7 teeth / 4 3/4" (12 cm)

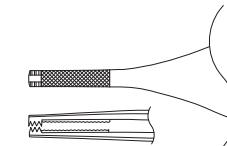
136-688 fenestrated handle  
136-688S



136-688

3 x 4 teeth / TC platform / 4 3/4" (12 cm)

136-689 serrated handle  
1100-735F fenestrated handle



TC platform  
3 x 4 teeth



136-6891

3 x 4 teeth / TC platform / electro black coated / 4 3/4" (12 cm)

136-6891 serrated handle

Russian fenestrated handle / 8 x 8 teeth / 4 3/4" (12 cm)

136-700



136-700

Serrated handle / 9 x 9 teeth / 4 3/4" (12 cm)

136-686  
136-686D 1.6 mm delicate tip  
136-698 angled



136-686

Serrated handle / 9 x 9 teeth / 6" (15.5 cm)

136-687  
136-697 TC platform

9 X 9 teeth



136-697

**Brown-Adson Cooley Forceps**

1.5 mm tip / 4 3/4" (12 cm)

136-686C

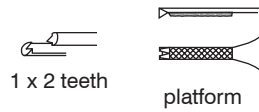


136-686C

**Stille-Adson Tissue Forceps**

1 x 2 teeth / 4 3/4" (12 cm)

- 136-675 platform
- 136-677 serrated
- 136-678P cross-serrated platform

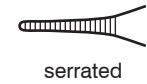


136-675

**Stille-Adson Dressing Forceps**

Serrated / 4 3/4" (12 cm)

- 136-659
- 136-659D delicate



serrated



136-659

**Adson Harris Ring Tip Forceps**

Ring tip / TC dust / 1 mm tip / 4 3/4" (12 cm)

- 1103-808 fenestrated handle curved
- 1103-810
- 1103-812 fenestrated handle



ring tip  
1mm



1103-808

Ring tip / 2 mm tip / 4 3/4" (12 cm)

- 1103-809



1103-810



1103-812

**Brown Forceps**

9x9 teeth / castroviejo handle / 4 1/4" (10.8 cm)

- 14-6560
- 14-6562 with TC dust platform
- 14-6564 with TC insert

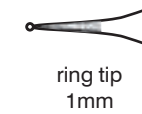


14-6560

**Harris Ring Tip Forceps**

Fenestrated handle / ring tip / 1 mm tip / 6" (15.5 cm)

- 1103-811
- 1103-811T titanium



ring tip  
1mm

Fenestrated handle / TC dust ring tip / 2 mm tip / 6" (15.5 cm)

- 1103-813



1103-811



1103-811T

**Russian Adson Micro Forceps**

Fenestrated handle / with platform / 5 1/4" (13.3 cm)

- 136-671A straight
- 136-671B curved



136-671A



136-671B

Fenestrated handle / 1 x 2 teeth / 5 1/4" (13.3 cm)

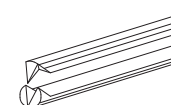
- 136-671C straight



136-671C

Fenestrated handle / straight / 1 x 2 teeth / 5 3/4" (14.5 cm)

- 136-671D



136-671D

**Jewelers Bipolar Forceps**

Straight / 0.5 mm tip / #5 tip / 4 3/4" (12.1 cm)

2700-918



2700-918

**Adson Bipolar Forceps**

1 mm tip / 4 3/4" (12 cm)

2700-905

2700-900

2700-902 4mm angled tip blue electro coat



2700-900



2700-902

1 mm tip / fenestrated handle / 4 3/4" (12 cm)

2700-902F 4 mm angled tip blue electro coat

2700-906 pointed tips



2700-902F



2700-906

1 mm tip / fenestrated handle / non-stick / black coated / 4 3/4" (12 cm)

2700-908NS straight

2700-903NS angled



2700-908NS

**Jewelers Bipolar Forceps**

0.4 mm tip / 4" (10 cm)

2700-920 straight

2700-922 curved

2700-915 straight blue coat



2700-920



2700-915

Insulated / non-stick / straight / 4 1/4" (10.8 cm)

2700-924NS 0.5 mm



2700-924NS

**McPherson Bipolar Forceps**

Smooth tying platform / 0.4 mm tip / 3 1/2" (9 cm)

16-2700 straight

16-2710 angled



16-2700



16-2710

**Jewelers-McPherson Bipolar Forceps**

Blue electro coat / straight

16-2760



16-2760

**Tenzel Bipolar Forceps**

Stop gap 0.5mm / 0.4 mm tip / 4" (10 cm)

2700-925



2700-925

**Nadler Coaptation Bipolar Forceps**

0.4 mm tip / 4" (10 cm)  
2700-931



**Cushing Bayonet Bipolar Forceps**

Stainless steel / 7 1/2" (19 cm)  
2700-978 0.7 mm tip  
2700-940 2.0 mm tip insulated



**Gerald Bayonet Bipolar Forceps**

Insulated / 1 mm tip / 7 1/2" (19 cm)  
2700-990  
2700-990NS non-stick



**Bayonet Bipolar Forceps**

Non-stick / black insulated / with stop  
pin / 1.0mm tip / 9 1/2" (24 cm)  
2700-830NS



**Hardy Bayonet Bipolar Forceps**

Insulated / 0.5 mm tip / 8 1/2" (22 cm)  
2700-980

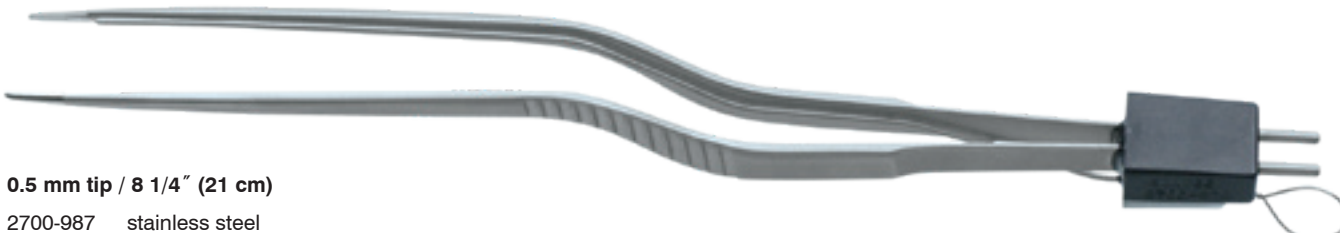


**Yasargil Bayonet Bipolar Forceps**

1.5 mm tip / irrigated / insulated / 8 1/4" (21 cm)  
2700-974



1 mm tip / irrigated / stainless steel / 7 1/8" (18.25 cm)  
2700-975



0.5 mm tip / 8 1/4" (21 cm)  
2700-987 stainless steel  
2700-984 insulated



2700-975



2700-987

0.7 mm tip / titanium / 4 hole serrated handle / 9" (22.9 cm)  
2700-983



2700-984

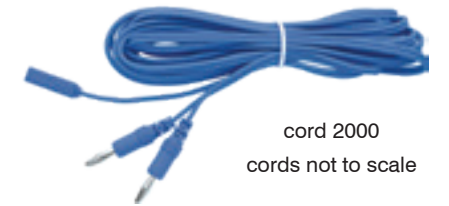
0.8 mm tip / stainless steel / 10 1/4" (26 cm)  
2700-988



2700-988

**Reusable Bipolar Cord**

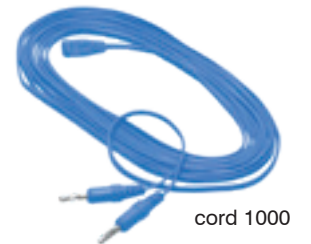
12 feet in length  
CORD-2000



cord 2000  
cords not to scale

**Disposable Bipolar Cord**

Sterile-12 ft long / nickle plated  
banana plugs / forceps plug  
compatible with all manufacture  
bipolar forceps and sweeps /  
packaged 50 per case/ box of 10  
CORD-1000



cord 1000

**Titanium Bayonet Bipolar Forceps**

Blue coating / 1.5 mm tip / irrigated / insulated / 8 3/4" (22 cm)  
2700-955



2700-955

**Hardy Bayonet Coagulation Forceps**

Blue coating / 1.5 mm tip, irrigated / insulated stops / 8 1/2" (21.5 cm)  
2700-960



2700-960

**Scoville Bayonet Bipolar Forceps**

Blue electro coating / 7 1/2" (19 cm)  
2700-967 1 mm tip  
2700-968 1.5 mm tip



Blue coating / 2 mm tip / 7 3/4" (19.5 cm)  
2700-965

2700-965

**Scoville Bipolar Forceps**

Non-stick / Black electro coating / 1.5 mm tip / 7 1/2" (19 cm)

2700-968NS



2700-968NS

**Jensen Bipolar Bayonet Irrigation Forceps**

Blue insulated / 1.0 mm / 7 1/2" (19 cm)

2700-887



2700-887

**Jansen Bipolar Forceps**

Black electro coating / 5" (12.7 cm)

2700-879NS 1.0 mm

Black electro coating / 6" (15 cm)

2700-880NS 0.5 mm  
2700-881NS 1.0 mm  
2700-8815NS 1.5 mm



2700-880NS

Black electro coating / 7" (18 cm)

2700-890NS 0.5 mm  
2700-891NS 1 mm  
2700-8915NS 1.5 mm



2700-890NS



2700-891NS

**Cushing Bipolar Forceps**

1.5 mm tip / blue electro coating / 7" (18 cm)

2700-995



2700-995

**Cushing Bipolar Forceps**

Black insulated / non-stick / 1.5 mm tip / 7" (18 cm)

2700-995NS



**Tissue Bipolar Forceps**

Black insulated / non-stick / 2.0 mm tip / 6" (15 cm)

2700-862NS

2700-864NS with stop pin



2700-862NS



2700-864NS

**Hardy Bayonet Bipolar Forceps**

1 mm tip / insulated / straight / 8 1/2" (21.5 cm)

2700-959



2700-959

**Coaptation Bipolar Forceps**

0.4 x 3 mm tip / 4 1/4" (10.5 cm)

2700-930



2700-930

**Bipolar Bayonet Wide Grip Forceps**

Non-stick / black insulated / with stop pin / wide handle / 8 mm x 2 mm

2700-840NS	downward angle	6"
2700-842NS	downward angle	6 3/4"
2700-844NS	downward angle	8"
2700-850NS	straight	6"
2700-852NS	straight	6 3/4"
2700-854NS	straight	8"
2700-856NS	straight	9"



2700-844NS



2700-852NS

Non-stick / black insulated / with stop pin / wide handle / 1.2 mm x 8 mm

2700-8581NS	downward angle	8"
2700-8591NS	downward angle	9"
2700-8601NS	downward angle	10"
2700-858NS	straight	8"
2700-859NS	straight	9"
2700-860NS	straight	10"



2700-8591NS



2700-859NS

**Bipolar Bayonet Wide Grip Forceps**

Unique micro / non-stick / black insulated / with stop pin / wide handle / thin shanks / straight / 4 mm x 1.2 mm

2700-837NS	6 3/4"
2700-839NS	8"



**Black Monopolar Suction Tube**

Non-stick / insulated

2700-550NS	straight	4.3 mm	5"	flexible
2700-552NS	angled	3.3 mm	5"	flexible
2700-554NS	angled	4.0 mm	5"	flexible
2700-556NS	angled	3.3 mm	10"	flexible
2700-558NS	angled	4.0 mm	10"	flexible
2700-560NS	angled	4.0 mm	12"	flexible

**Bipolar Bayonet Suction Wide Grip Forceps**

Black insulated / with suction / stop pin / 1.4 mm

2700-817	8" (20.3 cm)
2700-819	9" (22.9 cm)



2700-817

**Black Bipolar Bayonet Irrigation Forceps**

Insulated / with stop pin / straight / 1.2 mm

2700-810	6 3/4"
2700-812	8"
2700-814	8 3/4"
2700-815	9"



2700-810

**Yasargil Forceps Titanium**

**Flat bayonet / TC dust / 8 3/4" (22.2 cm)**

2601-295 straight 0.5 mm serrated handle  
 2601-295C straight 0.5 mm cross-serrated handle

**Flat bayonet / serrated handle / TC dust / 9" (23 cm)**

2601-296 angle up 0.5 mm  
 2601-290 straight 1 mm  
 2601-291 curved 1 mm  
 2601-292 angled up 1 mm

**Flat bayonet / serrated handle / TC dust / 10" (25.4 cm)**

2601-293 straight 1 mm



**Yasargil Forceps Titanium**

**Flat bayonet / 3 hole handle / TC dust / 9" (23 cm)**

2601-299 straight 1 mm

**Round bayonet handle / TC dust / 9" (23 cm)**

2601-270 straight 0.5 mm  
 2601-274 straight 1 mm

**Round bayonet handle / TC dust / 1 x 2 teeth / 9" (23 cm)**

2601-260 straight 1 mm

**Flat bayonet / 3 hole handle / straight / 1.3mm / 1 x 2 teeth / 8" (20.5 cm)**

2601-298



**Yasargil Micro Forceps Titanium**

Flat bayonet / 3 hole handle / TCD / 1 mm ring tip / 9" (23cm)

2601-280

Flat bayonet / serrated handle / TCD / 9" (23cm)

2601-282 straight 1 mm ring tip

2601-283 straight 1.3 mm ring tip

Round bayonet handle / TCD / 8" (20.3 cm)

2601-285 straight 1 mm ring tip



**Yasargil Tumor Grasping Forceps Titanium**

Flat bayonet 3 hole handle / flat serrated tip / 3 mm / 9" (23cm)

2601-275 straight

Round bayonet handle / flat serrated tip 4 mm / 9" (23cm)

2601-278 straight

Flat serrated handle / flat serrated tip / straight / 9" (23cm)

2601-276 3 mm

2601-279 5 mm

Flat serrated handle / curette serrated tip / straight / 9" (23cm)

2601-266 3 mm

2601-269 5 mm



**Yasargil Bayonet Forceps Titanium**

3 hole flat handle / straight / 9" (23cm)

- 2601-288 0.9 mm micro tip
- 2601-289 1.2 mm atraumatic tip



**Yasargil Tumor Grasping Bayonet Forceps Titanium**

3 hole flat handle / spoon shaped / straight / 9" (23cm)

- 2601-262 5 mm
- 2601-264 7 mm



**Yasargil Tumor Grasping Bayonet Forceps Titanium**

3 hole flat handle / 3 mm spoon shaped / 70° angle up / 9" (23cm)

- 2601-255



**Yasargil Micro Forceps Titanium**

Flat bayonet / 4 hole handle / straight / TCD / 1mm / 9" (23cm)

- 2601-294



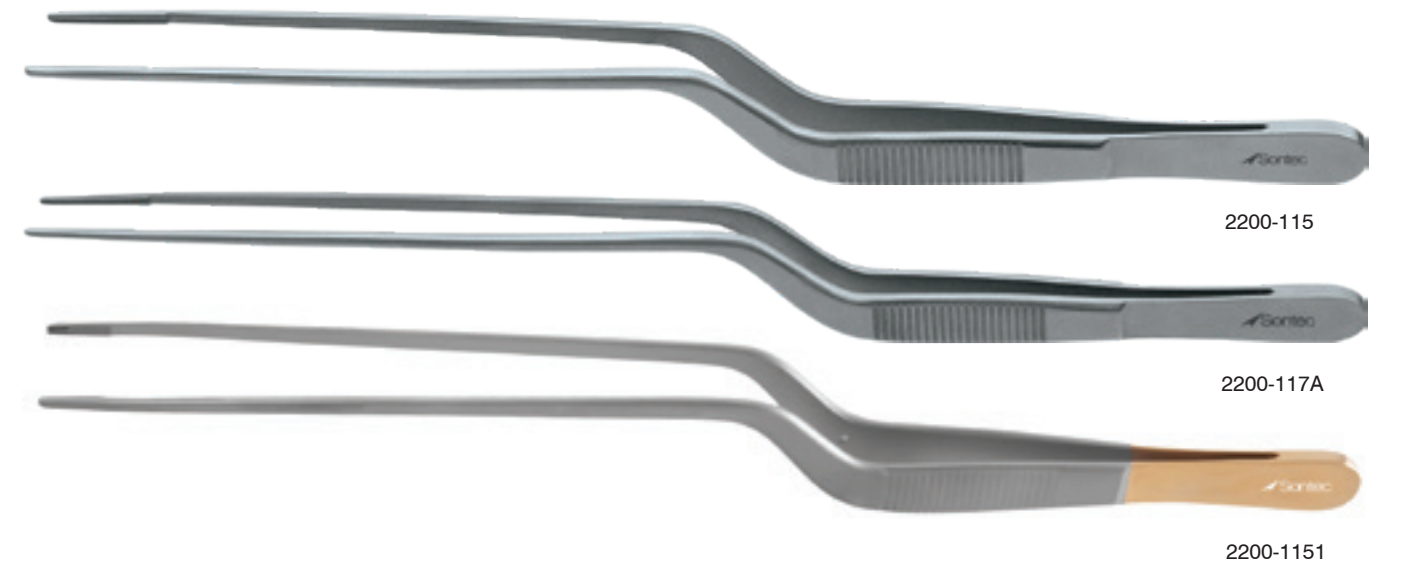
**DeBakey Bayonet Forceps**

1.5 mm tip

- 2200-115 7 3/4" (19.5 cm)
- 2200-117A 8 1/2" (12.5 cm)

1.5 mm tip / TC / 7 3/4" (19.7 cm)

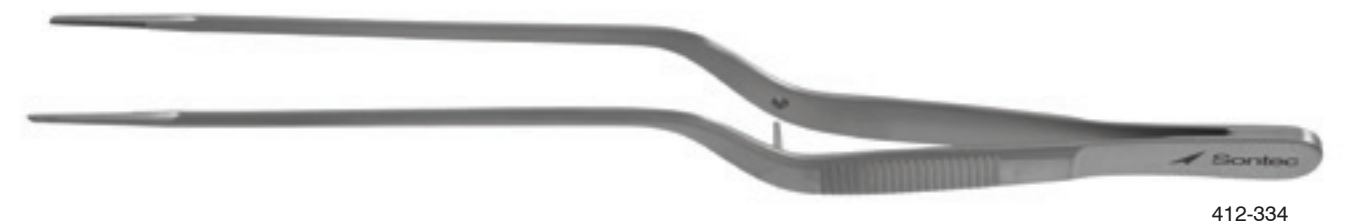
- 2200-1151



**Gerald Bayonet Forceps**

1 mm serrated tip / 7 5/8" (19 cm)

- 412-334



**Micro Bayonet Forceps**

**3 hole handle / TC dust / sharp**

- 400-091 straight 8" (20 cm)
- 400-095 angled 8" (20 cm)
- 400-101 straight 9" (23 cm)
- 400-105 angled 9" (23 cm)
- 400-109 straight 9 1/2" (24 cm)
- 400-113 angled 9 1/2" (24 cm)

**3 hole handle / TC dust / blunt**

- 400-093 straight 8" (20 cm)
- 400-097 angled 8" (20 cm)
- 400-103 straight 9" (23 cm)
- 400-107 angled 9" (23 cm)
- 400-111 straight 9 1/2" (24 cm)
- 400-115 angled 9 1/2" (24 cm)



400-111

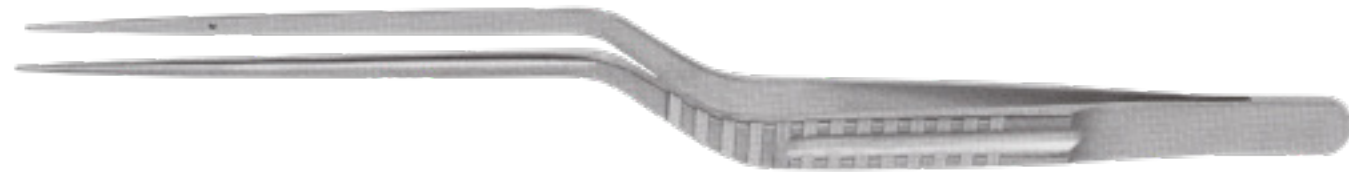
**Yasargil Micro Bayonet Forceps**

**TC dust / straight / 9" (23 cm)**

- 400-298 sharp
- 400-296 blunt

**TC dust / angled / 9" (23 cm)**

- 400-293 sharp
- 400-294 blunt



400-296

**Yasargil Tumor Bayonet Forceps**

**Serrated handle / spoon shaped / 9" (23 cm)**

- 400-070 3 mm
- 400-071 5 mm

**Serrated handle / flat serrated / 9" (23 cm)**

- 400-074 3 mm
- 400-075 5 mm

**Serrated handle / curette toothed / 9" (23 cm)**

- 400-076 3 mm
- 400-077 5 mm



400-077

**Yasargil Atrauma Forceps**

**DeBakey / straight / 1.2 mm 8" (20.3 cm)**

400-080

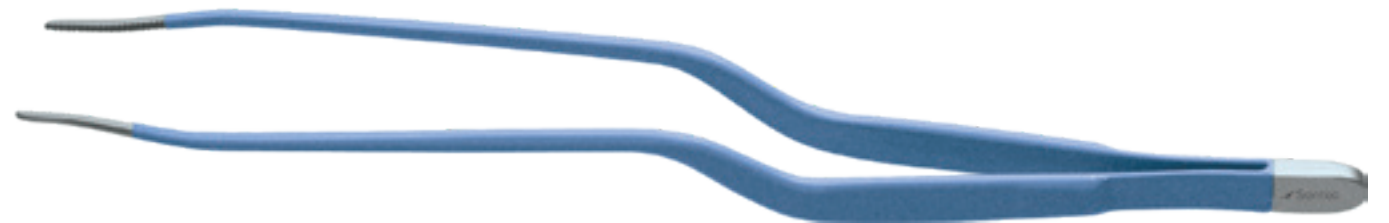


400-080

**Bayonet Forceps**

**Blue coat / serrated / 7 3/4" (20 cm)**

467-317B



467-317B

**Lucae Ear Forceps**

**Bayonet handle / serrated**

- 467-310 4 1/2" (11.5 cm)
- 467-311 5 1/2" (14 cm)



467-310

**Wilde Ear Forceps**

**Serrated / 5 1/2" (14 cm)**

467-320



467-320

**Jacobson Micro Bayonet Forceps**

**Straight / 7" (18 cm)**

- 400-360 sharp
- 400-358 blunt

**Angled / 7" (18 cm)**

- 400-364 sharp
- 400-362 blunt



400-362

**TC dust / straight / 7" (18 cm)**

- 400-361 sharp
- 400-359 blunt

**TC dust / angled / 7" (18 cm)**

- 400-365 sharp
- 400-363 blunt

**Hypophyseal Bayonet Forceps**

**With smooth cupped jaws 7 mm Ø / 8 3/4" (22 cm)**

- 400-050
- 400-050T titanium



400-050

**Yasargil Tumor Grasping Bayonet Forceps**

**3mm / 3 hole handle / 9 1/4"**

- 400-060 spoon shaped
- 400-063 flat serrated
- 400-066 curette toothed

**5mm / 3 hole handle / 9 1/4"**

- 400-061 spoon shaped
- 400-064 flat serrated
- 400-067 curette toothed



400-066

**Cushing Bayonet Forceps**

**TC / serrated / 7 1/2" (19 cm)**

- 140-220



140-220

**Cushing Dressing Bayonet Forceps**

**1 x 2 teeth / 7 1/4" (18.4 cm)**

- 136-787



136-787

**Cottle Lower Antrum Forceps**

**Boyonet / screw lock / 6" (15.2 cm)**

- 468-300



468-300

**Electro Blue Coated Cushing Bayonet Tissue Forceps**

Monopolar use / TC serrated/insulated

- 140-220B 7 1/2"
- 140-222B 9"

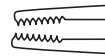


140-220B

**Brown-Cushing Bayonet Forceps**

9 x 9 teeth / 7 1/4" (18.25 cm)

136-798



136-798

**Jansen Bayonet Ear Forceps Titanium**

1.0 mm / serrated tips / 5 1/2" (14 cm)

467-314T



467-314T

**Gruenwald (Jansen) Ear Forceps**

Bayonet handle / serrated

- 467-315 6 1/2" (16.5 cm)
- 467-317 7 3/4" (19.5 cm)
- 467-318 8 1/2" (21.5 cm)



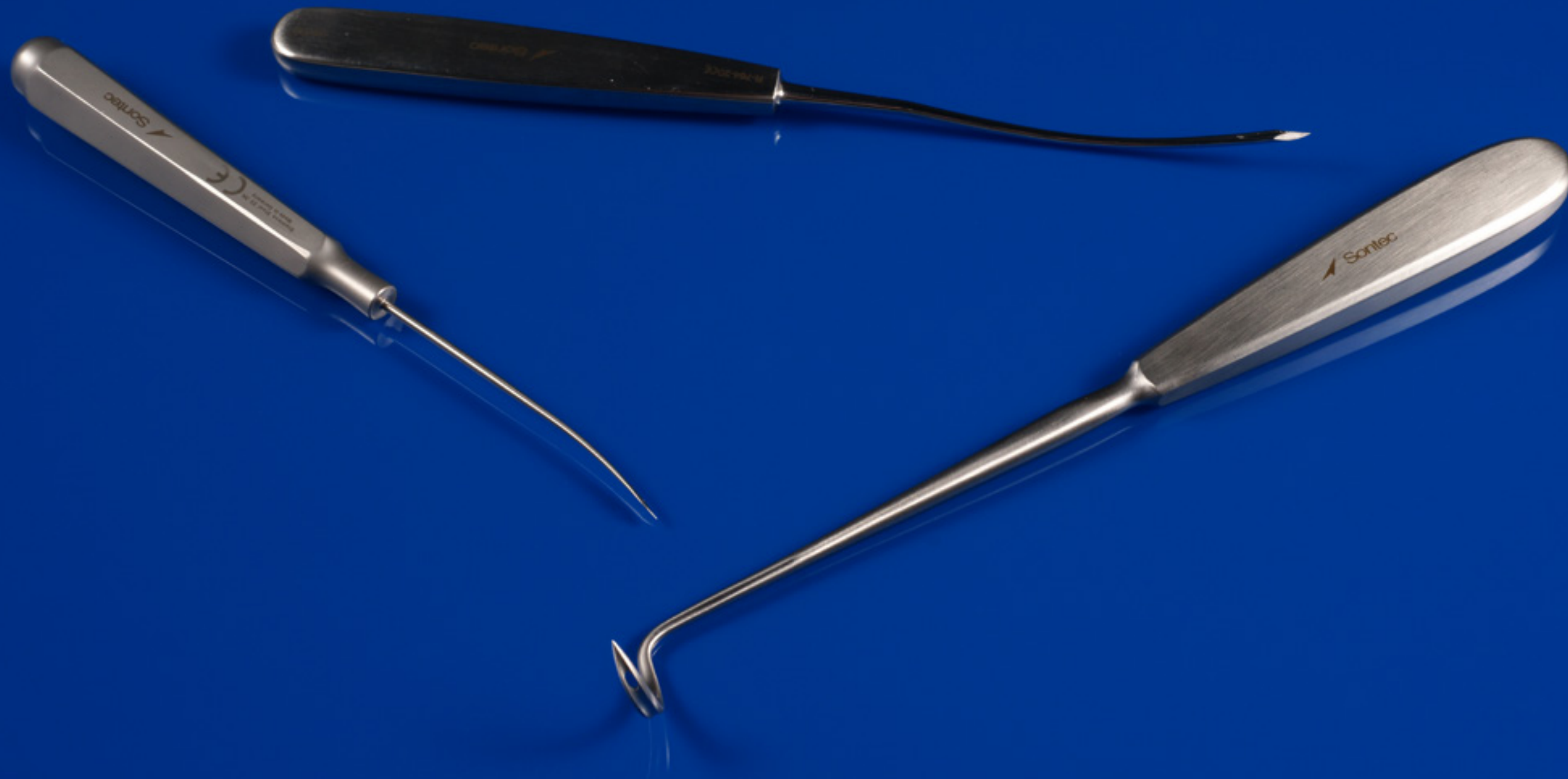
467-315



467-317



467-318

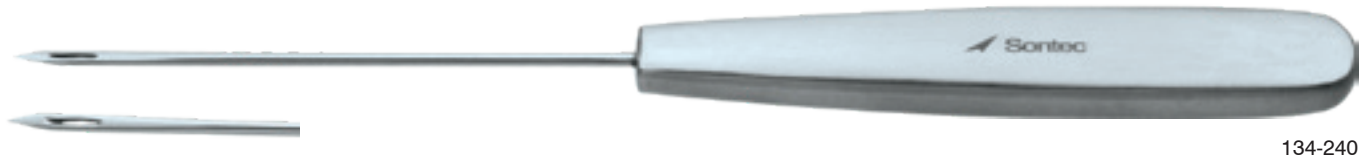


 Sontec Instruments®

Ligature Carriers

**Cassio Ligature Carrier**

Sharp / straight / 8" (20.5 cm)  
134-240



**Sontec Reverdin Blunt Needle/Ligature Carrier**

Blunt / curved / 8" (20.5 cm)  
134-242



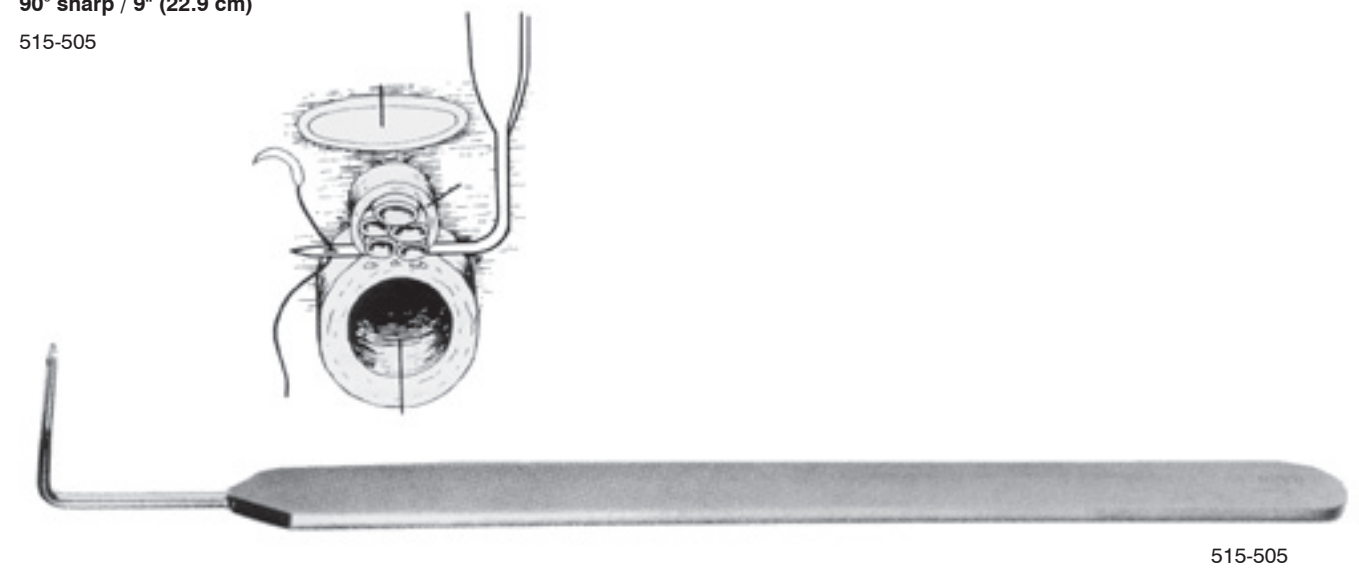
**Reverdin Needle/Ligature Carrier**

Sharp / curved / 8" (20.5 cm)  
134-276



**Durrani Dorsal Vein Complex Ligation Needle**

90° sharp / 9" (22.9 cm)  
515-505



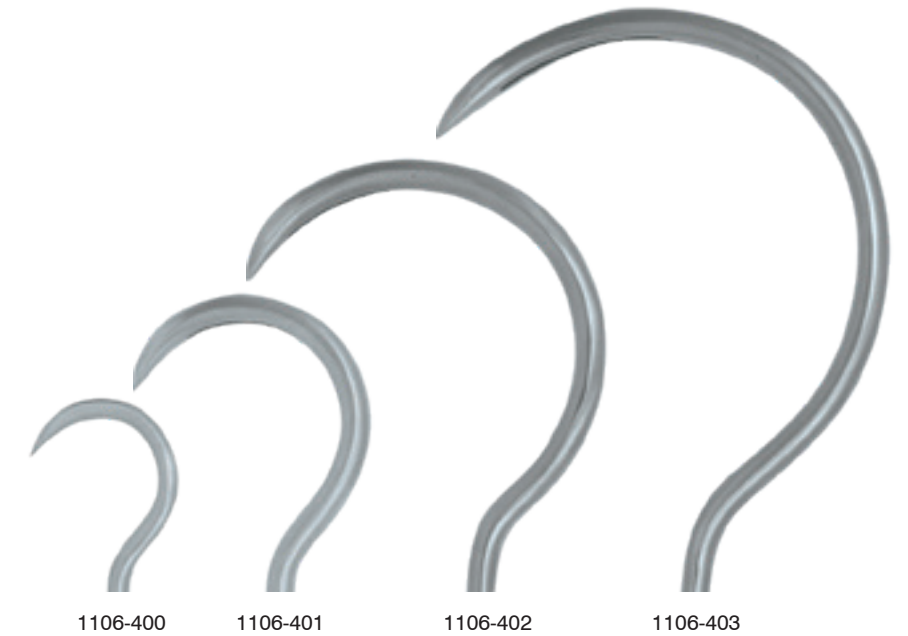
**Tendon Passer Ligature Carrier**

10.5" (26 mm) / 11" phenolic handle  
305-910



**Graft Passer Ligature Carrier**

**Curved**  
1106-400 2 cm extra small  
1106-401 3 cm small  
1106-402 4.5 cm large  
1106-403 6 cm extra large  
1106-404 8cm XX large



**Deschamps Ligature Carrier**

**Small / 25 mm / 8" (20 cm)**

- 134-277 sharp left
- 134-278 sharp right
- 134-280 blunt left
- 134-281 blunt right



134-278

**Medium / 30 mm / 8" (20 cm)**

- 134-277M sharp left
- 134-278M sharp right
- 134-280M blunt left
- 134-281M blunt right

**Large / 35 mm / 9 1/2" (24 cm)**

- 134-282A sharp left
- 134-282B sharp right



134-277

**Schmieden-Dick Ligature Carrier**

**Malleable / 12 3/4" (32.5 cm)**

- 134-267



134-267

**Entner Ligature Carrier**

**Curved**

- 134-243 8.1/4" (21 cm)
- 134-245 6.1/2" (16.5 cm)



134-243

**Sanders Brown Ligature Carrier**

**10" (25 cm)**

- 134-248



134-248

**Eyebrow Lifting Ligature Carrier**

**11" (28 cm)**

- 134-268



134-268

**Facia Ligature Carrier**

**6" (15 cm)**

- 134-247



134-247



 Sontec Instruments®

Micro HAND SURGERY

**Micro Scissors Long 14 mm Blades Round Handle Titanium**

2602-100	straight	5 1/2" (14 cm)	
2602-101	curved	5 1/2" (14 cm)	
2602-102	straight	7" (17.8 cm)	
2602-1201	straight	7" (17.8 cm)	serrated blades
2602-103	curved	7" (17.8 cm)	
2602-1031	curved	7" (17.8 cm)	serrated blades



2602-100



2602-101

**Micro Scissors Small 8 mm Blades Round Handle Titanium**

2602-104	straight	5 1/2" (14 cm)
2602-105	curved	5 1/2" (14 cm)
2602-1051	curved	5 3/4" (14.6 cm)
2602-106	straight	7" (17.8 cm)
2602-107	curved	7" (17.8 cm)



2602-104



2602-105



2602-1051



2602-106



2602-107

**Micro TCD Round Handle 5 1/2" Needle Holder Titanium**

2602-300	curved	
2602-301	curved	with lock
2602-302	curved	with lock 1.0 mm
2602-303	straight	
2602-304	straight	with lock 0.3 mm



2602-300



2602-301



2602-302



2602-303



2602-304

**Micro TCD Round Handle 7" Needle Holder Titanium**

2602-305	curved	
2602-306	curved	with lock 0.5 mm
2602-307	straight	
2602-308	straight	with lock 0.5 mm



2602-305



2602-306



2602-307



2602-308

**Micro Round Handle 6" Forceps Titanium**

2602-200	straight	with platform		0.20 mm
2602-201	straight	with platform		0.10 mm
2602-202	straight	with platform	strong	0.3 mm
2602-203	curved	with platform	strong	0.3 mm



2602-200



2602-201



2602-202



2602-203

**Micro Round Handle Forceps Titanium**

2602-204	curved	0.3 mm	7" (17.8 cm)
2602-205	straight	0.3 mm	7" (17.8 cm)
2602-206	curved	0.4 mm	8" (20.3 cm)
2602-207	straight	0.4 mm	8" (20.3 cm)
2602-208	straight	0.6 mm	6" (15.2 cm)
2602-209	curved	0.6 mm	6" (15.2 cm)



2602-204



2602-205



2602-206



2602-207



2602-208



2602-209

**Micro Straight Round Handle Forceps Titanium**

2602-210	delicate	1x2 teeth	6" (15.2 cm)
2602-211	delicate	1 mm ring tip	6" (15.2 cm)
2602-212	delicate	1 mm ring tip	7" (17.8 cm)



2602-211



2602-210



2602-212



 Sontec Instruments®

Neuro HOOKS

**Doolen Neuro Hook**

1 mm ball tip / 90° / 8" (20.5 cm)

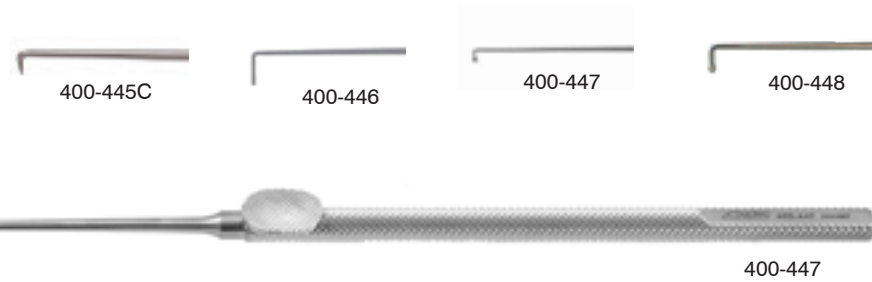
- 2700-501 2 mm from angle
- 2700-502 3 mm from angle



**Krayenbuehl Nerve Hook**

90° / 7 1/4" (18.5 cm)

- 400-445 2 mm tip length
- 400-445C 2 mm tip length sharp
- 400-447 2 mm tip length 1 mm ball tip
- 400-446 3 mm tip length
- 400-448 3 mm tip length 1 mm ball tip



**Krayenbuehl Nerve Hook Extra Long Version**

Round Handle / special long model / 11" (27.9 cm)

- 400-445L 2 mm tip length
- 400-447L 2 mm tip length 1 mm ball tip
- 400-446L 3 mm tip length
- 400-448L 3 mm tip length 1 mm ball tip



**Tufts Pigtail Neuro Hook Probe**

With ball tip / twist right / large / 6 1/2" (16.5 cm)

- 412-443



**Frazier Dorsey Dura Separator**

Angled / 5 x 15 mm blades / 6" (15.2 cm)

- 412-488



**Tufts Pigtail Neuro Hook Probe**

With ball tip / 6 3/4" (17 cm)

- 412-442L spirals left
- 412-442R spirals right



**Pig Tail Neuro Hook Probe**

With ball tip / 6 7/8" (17.5 cm)

- 412-444 spirals right
- 412-444L spirals left
- 412-444KR spirals right 90° angle up
- 412-444KL spirals left 90° angle up

Titanium / with ball tip / 6 7/8" (17.5 cm)

- 412-444T spirals right
- 412-444LT spirals left



**Culler Neuro Round Handle Hook**

Unique sharp 3 mm tip length / 5 1/2"

412-445D

**5 mm tip length**

412-445B 0.7 mm Ø x 5 mm tip length 4 3/4"

412-445A 1 mm Ø x 5 mm tip length 4 3/4"

412-445CL 1 mm tip Ø 6 1/4"

**0.5 mm Ø tip**

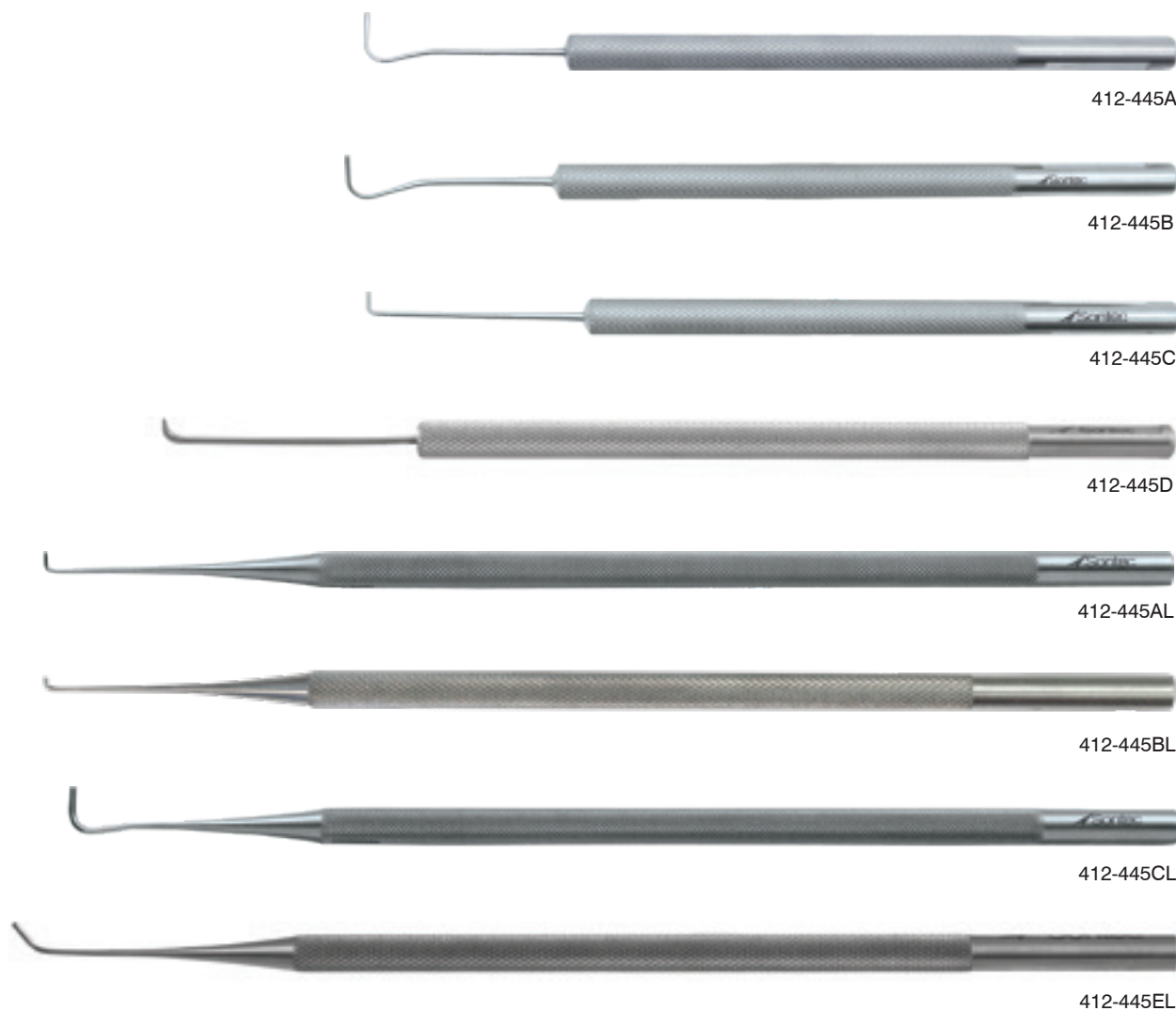
412-445C 3 mm tip length 4 5/8"

412-445AL 3 mm tip length 6 1/4"

412-445BL 2 mm tip length 6 1/4"

**1.0 mm Ø 45° 4 mm tip / 6 1/4"**

412-445EL



**Culler Neuro Round Handle Hook Titanium**

Unique sharp 3 mm tip length / 5 1/2"

412-445DT

**5 mm tip length**

412-445BT 0.7 mm tip Ø 4 3/4"

412-445AT 1 mm tip Ø 4 3/4"

412-445CLT 1 mm tip Ø 6 1/4"

**0.5 mm Ø tip**

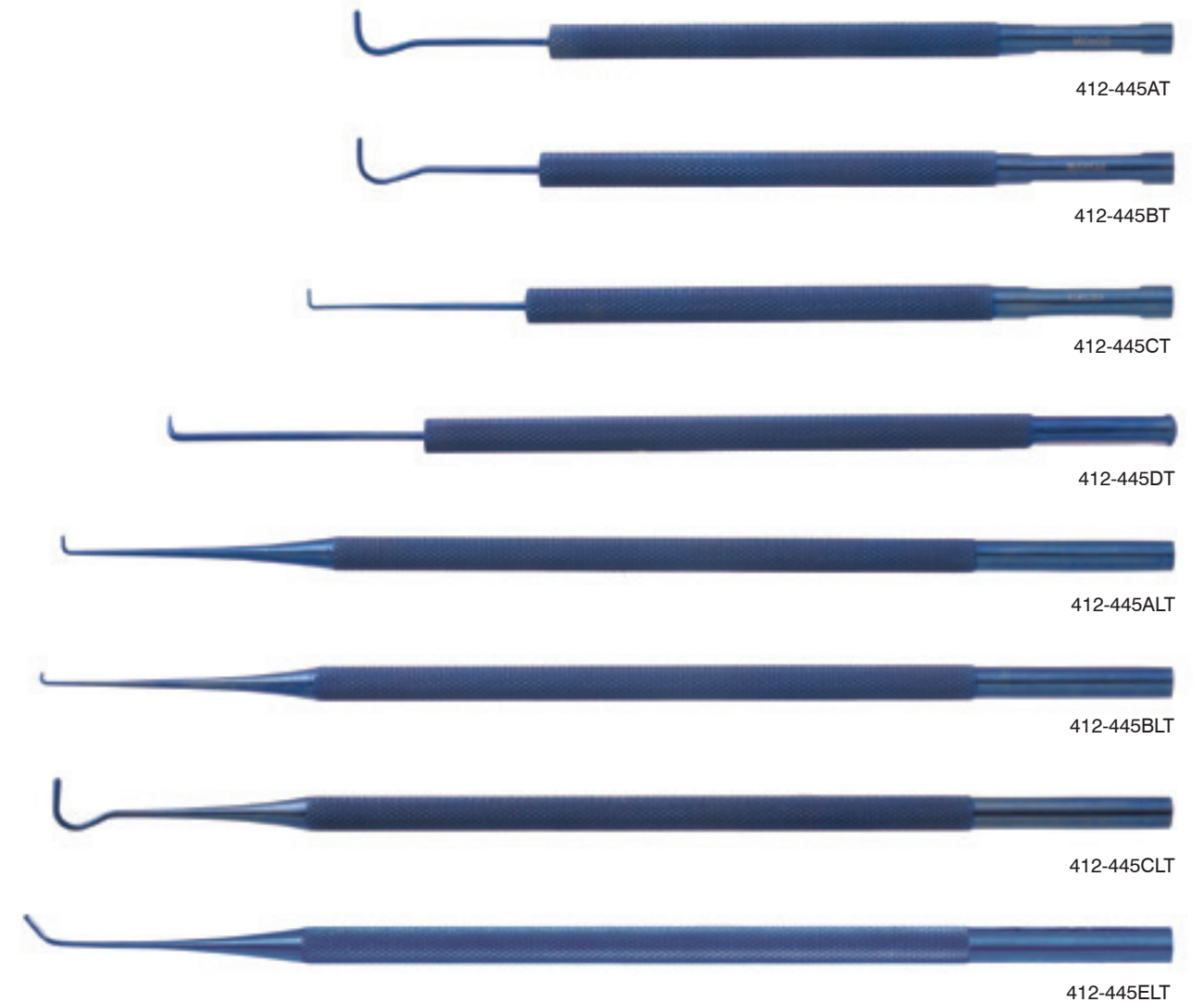
412-445CT 2.5 mm tip length 4 5/8"

412-445ALT 2 mm tip length 6 1/4"

412-445BLT 2.0 mm tip length 6 1/4"

**1.0 mm Ø 45° 4 mm tip / 6 1/4"**

412-445ELT



**Sontec Nerve Hook Titanium**

3 mm tip length / 1 mm ball Tip

2700-470A 7 1/8" (18 cm) 5 mm hook with 1 mm ball tip  
 2700-470 8" (20 cm) 3 mm hook with 1 mm ball tip



**Nerve & Vessel Hook Titanium**

10" (25.5 cm)

2700-450 3.5 mm tip with graduation marks  
 2700-451 1.5 mm ball tip



**Krayenbuehl Nerve Hook Titanium**

90° / 7 1/4" (18.5 cm)

400-461T 3 mm probe 1 mm ball tip  
 400-462T 3.8 mm probe 1 mm ball tip  
 400-463T 2.5 mm probe without ball tip  
 400-464T 4.0 mm probe without ball tip  
 400-465T 4.0 mm probe without ball tip



**Heartline Nerve & Vessel Hook**

3.2 mm tip with graduation marks / 12" (30.5 cm)

2800-450

1.5 mm ball tip / 10" (25 cm)

2800-451



**Carpentier Vascular Hook Titanium**

9 1/2" (24 cm)

2700-431 45° angle  
 2700-432 90° angle  
 2700-433 125° angle



**Bayonet Nerve Hook**

6" (150 mm) working length / 10 3/4" (27 cm) overall length

412-615



**Dandy Nerve Hook**

- 412-436 straight shaft 8" (20.3 cm)
- 412-438 straight shaft 9" (23 cm)
- 412-440 angled left shaft 9" (23 cm)
- 412-442 angled right shaft 9" (23 cm)



412-438



412-440



412-442

**Bayonet Nerve Hook Titanium**

Backward facing 0.9mm Ø tip / 20 mm working length / 12 1/4" (31 cm)

412-616T



412-616T

**Lucae Ear Hook**

Fine / indent ball end / 6" (15 cm)

- 468-169 2.0 mm
- 468-170 2.5 mm
- 468-171 3.0 mm
- 468-172 4.0 mm



468-171

**Bryant Mitral Hook Retractor**

10 3/4" (26.5 cm)

- 2500-313 3 semi-sharp prongs
- 2500-313T 3 semi-sharp prongs
- 2500-315 2 semi-sharp prongs
- 2500-315T 2 semi-sharp prongs
- 2500-320 1 semi-sharp prong
- 2500-320T 1 semi-sharp prong



2500-313



2500-313T



2500-315



2500-315T



2500-320



2500-320T

**Wagner Hook**

5 1/2" (14 cm)

- 468-181 size 1
- 468-182 size 2
- 468-183 size 3
- 468-184 size 4
- 468-185 size 5



468-183



**Nerve Hook Titanium**

Bayonet / ball Tip (0.5mm) / 9 1/4" (23.5 cm)

412-618T



412-618T

**Cushing Dura Hook**

6 1/2" (16 cm)

412-414



412-414

**Cloward Dura Hook**

6 1/2" (16 cm)

412-415



412-415

**Graham Dura Hook**

6 1/2" (16 cm)

412-422



412-422

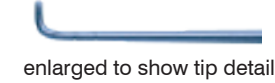
**Micro Hook Titanium**

90° graduation (1 mm) / 7 1/2" (19 cm)

2700-504



2700-504



enlarged to show tip detail

**Yasargil Galea Spring Neuro Hook**

Double sharp prong hook / bulldog clamp / spring body / 310 mm

2700-405





 Sontec Instruments®

Neuro RASPATORY

**Yasargil® Raspatory Titanium**

7 1/4" (18.5 cm)

- 400-420T angle with wide blade
- 400-421T light curve with narrow blade
- 400-422T curved with narrow blade
- 400-423T angle with narrow blade



400-420T



400-421T



400-422T



400-423T

**Yasargil® Raspatory Titanium**

Angled with wide blade / 5" (13 cm)

400-419T



400-419T



**Yasargil Raspatory Probe Set**

Single-ended / 7 1/4" (18.5 cm)

- 2700-412 slight curve
- 2700-414 full curve
- 2700-416 angled
- 2700-424 double angle
- 2700-426 dissector

Single-ended / 9" (22.9 cm)

- 2700-410 slight curve



2700-410



2700-412



2700-414

**Jacobson Raspatory/Probe Set**

Single-ended / Round Handle / 7 1/4" (18.5 cm)

- 2700-418 buttoned probe
- 2700-420 twin probe
- 2700-422 suture pusher
- 2700-428 vessel knife



2700-428

2700-422

2700-420

2700-418



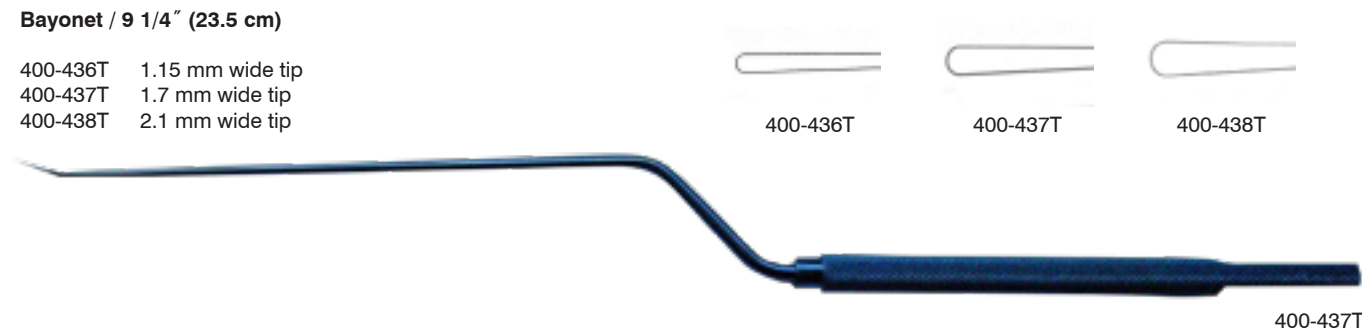
 Sontec Instruments®

Neuro Spinal DISSECTORS

**Yasargil Bayonet Raspatory Titanium**



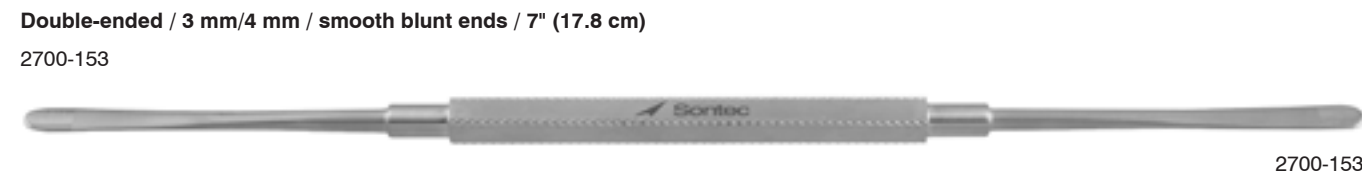
**Yasargil Dissector Raspatory Titanium**



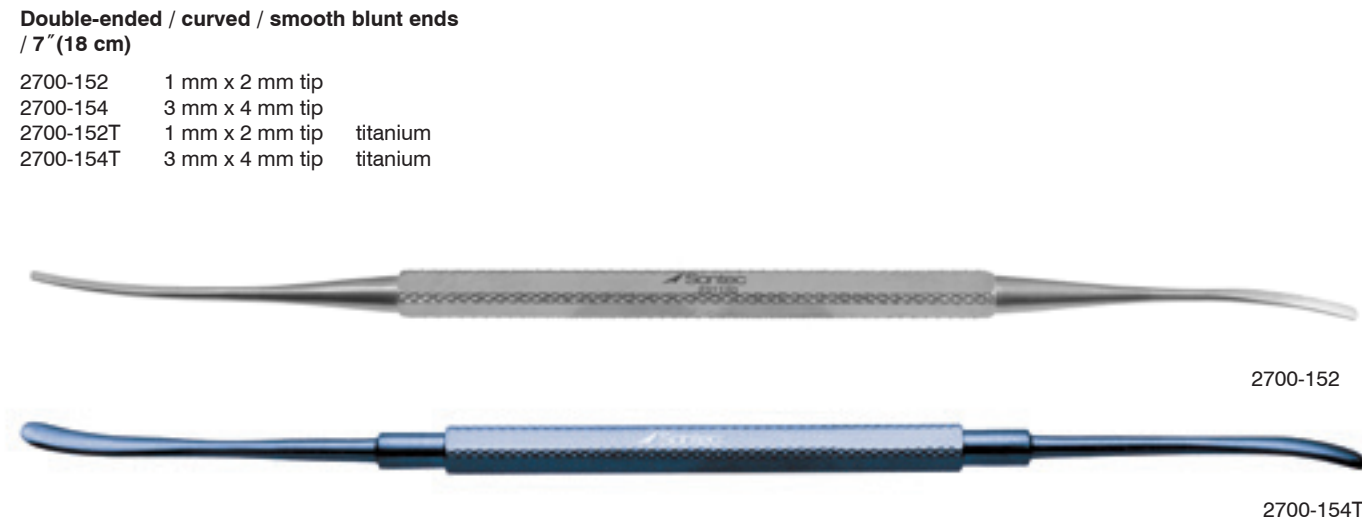
**Ochsner Dissector**



**Ochsner-Sontec Straight Dissector**



**Ochsner Dissector**



**Olivecrona Dissector**

Double-ended / curved / with Ligature Guide

2700-164	1 mm x 2 mm tip	7" (18 cm)
2700-165	2 mm x 3 mm tip	7" (18 cm)
2700-166	3 mm x 4 mm tip	7" (18 cm)
2700-168	1 mm x 2 mm tip	7 3/4" (19.5 cm)
2700-170	3 mm x 4 mm tip	7 3/4" (19.5 cm)
2700-160	2 mm x 3 mm tip	9 1/2" (24 cm)
2700-162	3 mm x 4 mm tip	9 1/2" (24 cm)



**Titanium Sontec® Dissector**

Single-ended / round knurled handle /  
curved / 7 3/4" (19.5 cm)

412-545	3 mm delicate
412-546	4 mm regular



**Lemmon Dissector**

Semi sharp / 4 mm tip / 6 3/4" (17 cm)

440-420	slight curve
440-421	medium curve
440-423	full curve



**Penfield Dissector Set**

**Sets**

412-552 #1 - #5 stainless steel  
 412-552T #1 - #5 titanium

**Double-ended / dissector / curette / curved / 6 mm / #1 / 7" (18 cm)**

412-547  
 412-547T titanium

**Double-ended / dissector / wax packer / 7 3/4" (19.5 cm)**

412-548 curved #2  
 412-548T curved #2 titanium  
 412-549 full curve #3  
 412-549T full curve #3 titanium

**Single-ended dissector / curved / 3mm / #4 / 8 1/4" (21 cm)**

412-550  
 412-550T titanium

**Double-ended dissector / curved / 6mm / #5 / 11 1/2" (29 cm)**

412-551  
 412-551T titanium



412-547



412-548T



412-549T



412-550



412-551



 Sontec Instruments®

Neuro Spinal ELEVATORS

**Nelms Suction Elevator**

- 2700-310 suction freer style sharp 7" (18 cm)
- 2700-312 suction freer style blunt 7" (18 cm)
- 2700-314 suction cottle style blunt 7 1/2" (19 cm)

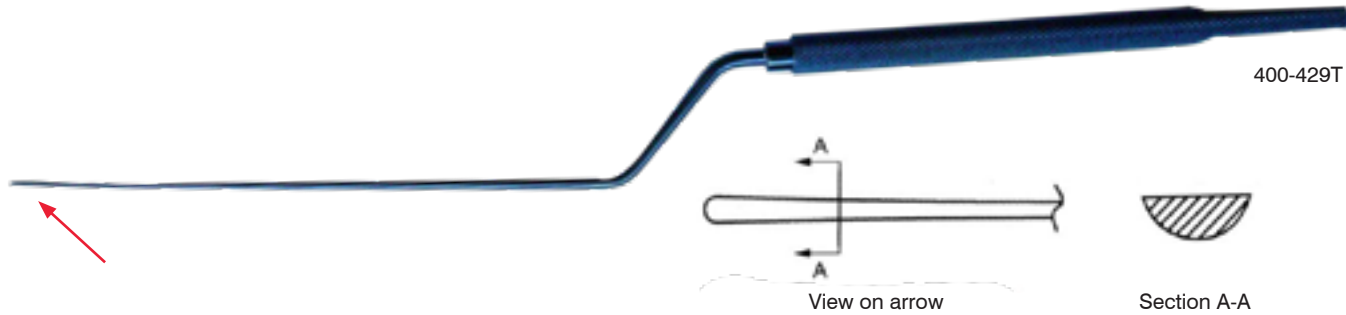


2700-310

**Yasargil Bayonet Elevator Titanium**

Straight oval tip (2.75mm wide) / 8 7/8" (22 cm)

400-429T



400-429T

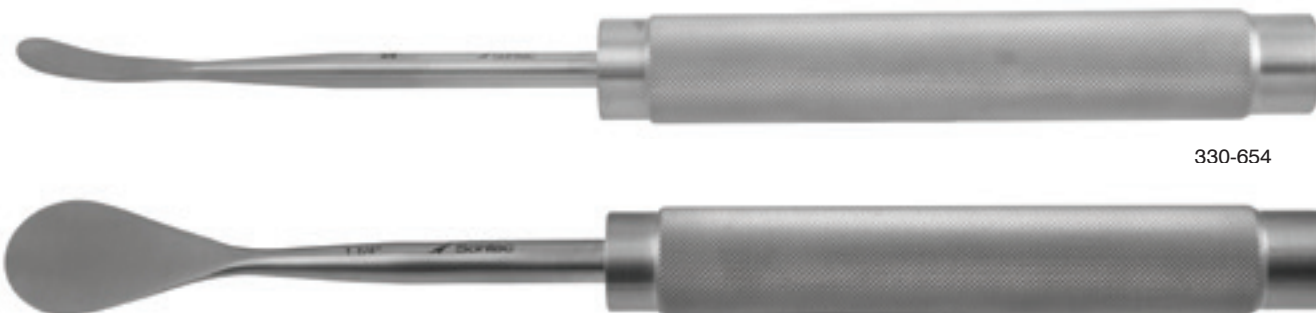
**Cobb Spinal Elevator**

Sharp / stainless / 11" (28 cm)

- 330-654 3/8" tip
- 330-655 1/2" tip
- 330-656 3/4" tip
- 330-657 1" tip
- 330-658 1 1/4" tip

Sharp / stainless / aluminum handle / 11" (28 cm)

- 330-654A 3/8" tip
- 330-655A 1/2" tip
- 330-656A 3/4" tip
- 330-657A 1" tip
- 330-658A 1 1/4" tip



330-654

330-658

**Cobb Spinal Elevator**

Hex handle / 9 1/2" (24 cm)

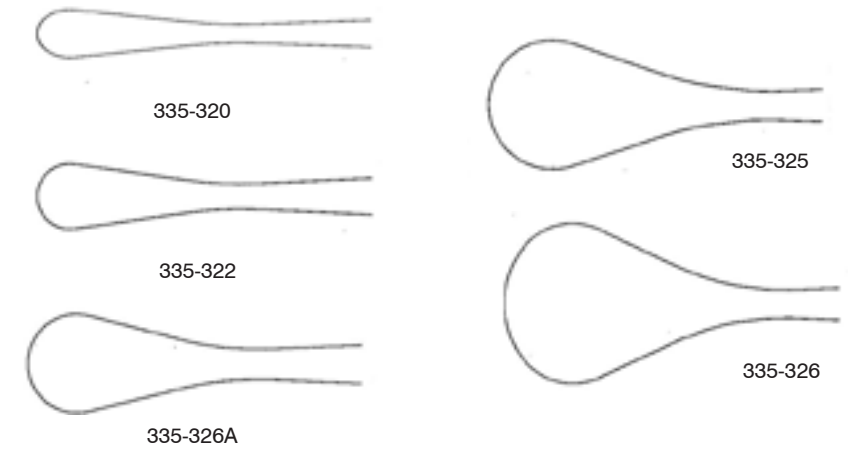
- 335-320 3/8"
- 335-322 1/2"
- 335-324 3/4"
- 335-325 1"
- 335-326 1 1/4"

Long phenolic handle / 13" (33 cm)

- 335-326A size 1/2
- 335-326B size 5/8
- 335-326C size 3/4
- 335-326D size 1
- 335-326E size 1 1/8"

Long phenolic handle / 15" (38 cm)

- 335-327A size 1/2
- 335-327B size 5/8
- 335-327C size 3/4
- 335-327D size 1
- 335-327E size 1 1/8"



335-320



335-324



335-326

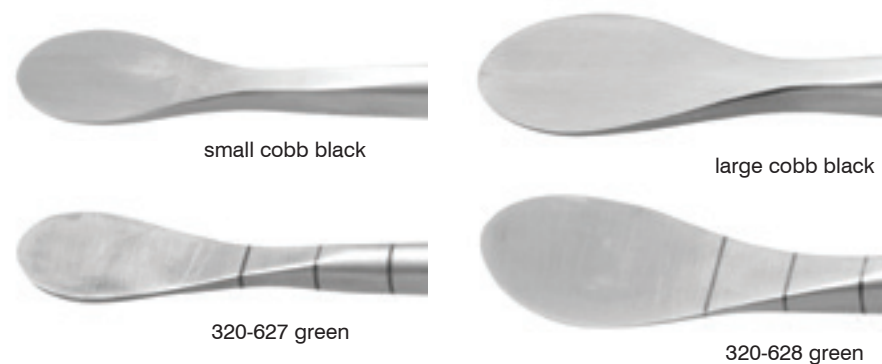
**Cobb Spinal Elevator with Unique Handle**

Sharp / black handle / 16 1/2" (41.9 cm)

- 320-627B small cobb
- 320-628B large cobb

Sharp / green handle / 16 1/2" (41.9 cm)

- 320-627G small cobb
- 320-628G large cobb



320-627B



320-627G

**Wagner Spinal Elevator**

Phenolic handle

- 335-350 8 mm tip 13" (33 cm)
- 335-360 20 mm tip 11" (28 cm)
- 335-355 17 mm tip 13" (33 cm)



335-350



335-360



335-355

**Freer/Pennington Extra Long Spinal Elevator**

Blunt / blunt / 10 mm ends / 12" (30.5 mm) / extra extra large

1100-791



1100-791



 Sontec Instruments®

Neuro Spinal PROBES

**Murphy Ball End Probe**

**8 1/2" (22 cm)**

- 413-030 curved
- 413-031 straight

**10 1/2" (25 cm)**

- 413-032 curved
- 413-033 straight



413-030



413-031

**Murphy Ball End Probe**

**9" (23 cm)**

- |         |          |      |    |
|---------|----------|------|----|
| 413-020 | straight |      | #1 |
| 413-021 | 65°      | 8mm  | #2 |
| 413-022 | 80°      | 10mm | #3 |
| 413-023 | 75°      | 12mm | #4 |
| 413-024 | 80°      | 13mm | #5 |



413-020



413-024

**For more probes go to  
"Rhoton Jacobson Curette  
& Dissector Hook Set"  
section**



 Sontec Instruments®

Caspar RETRACTORS & DISTRACTORS

**Caspar Cervical Vertebral Retractor Frame**

Accommodates all blade types / single articulation / 85 mm maximum spread / 6 1/2" (16.5 cm)

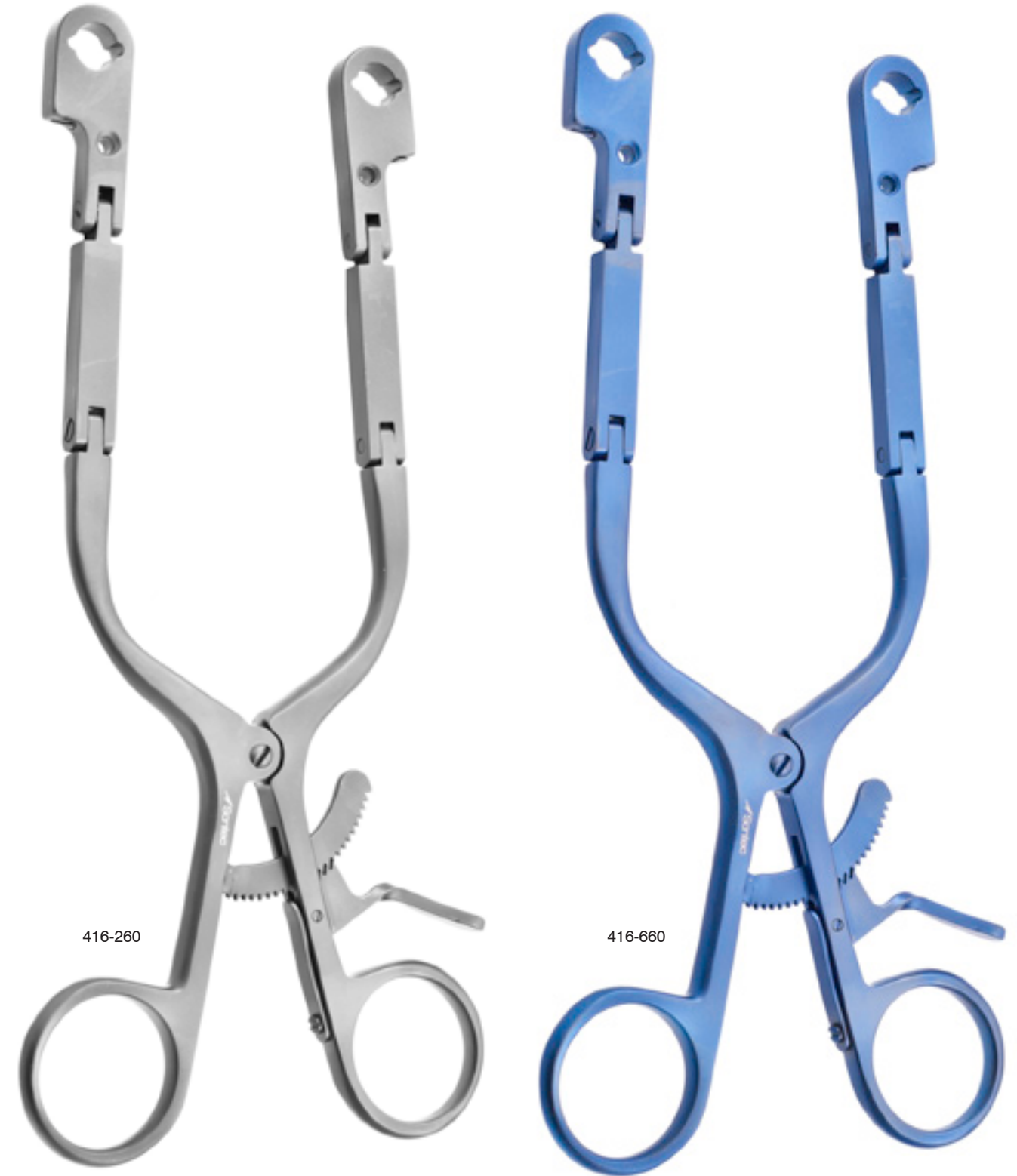
- 416-280 stainless steel
- 416-680 titanium



**Caspar Cervical Vertebral Retractor Frame**

Accommodates all blade types / double articulation / 125 mm maximum spread / 8" (20 cm)

- 416-260 stainless steel
- 416-660 titanium



**Caspar Cervical Vertebral Retractor Frame**

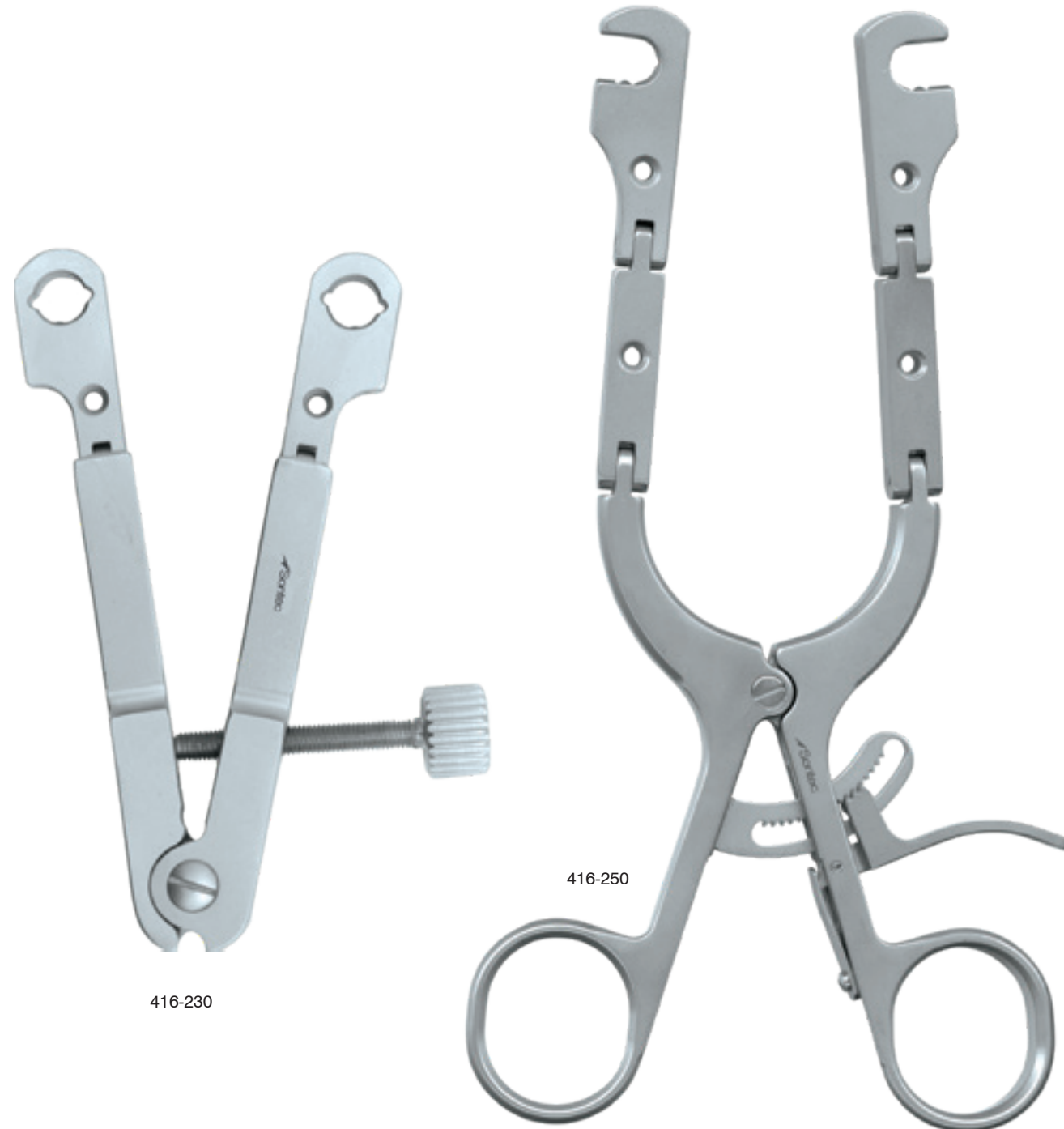
Accommodates all blade types / single articulation / V-handle / 85 mm maximum spread

416-230 4 1/2 (11.5 cm)

**Caspar Cervical Vertebral Retractor Frame**

For use with the titanium & plastic quick release blades only / double articulation / 100 mm maximum spread

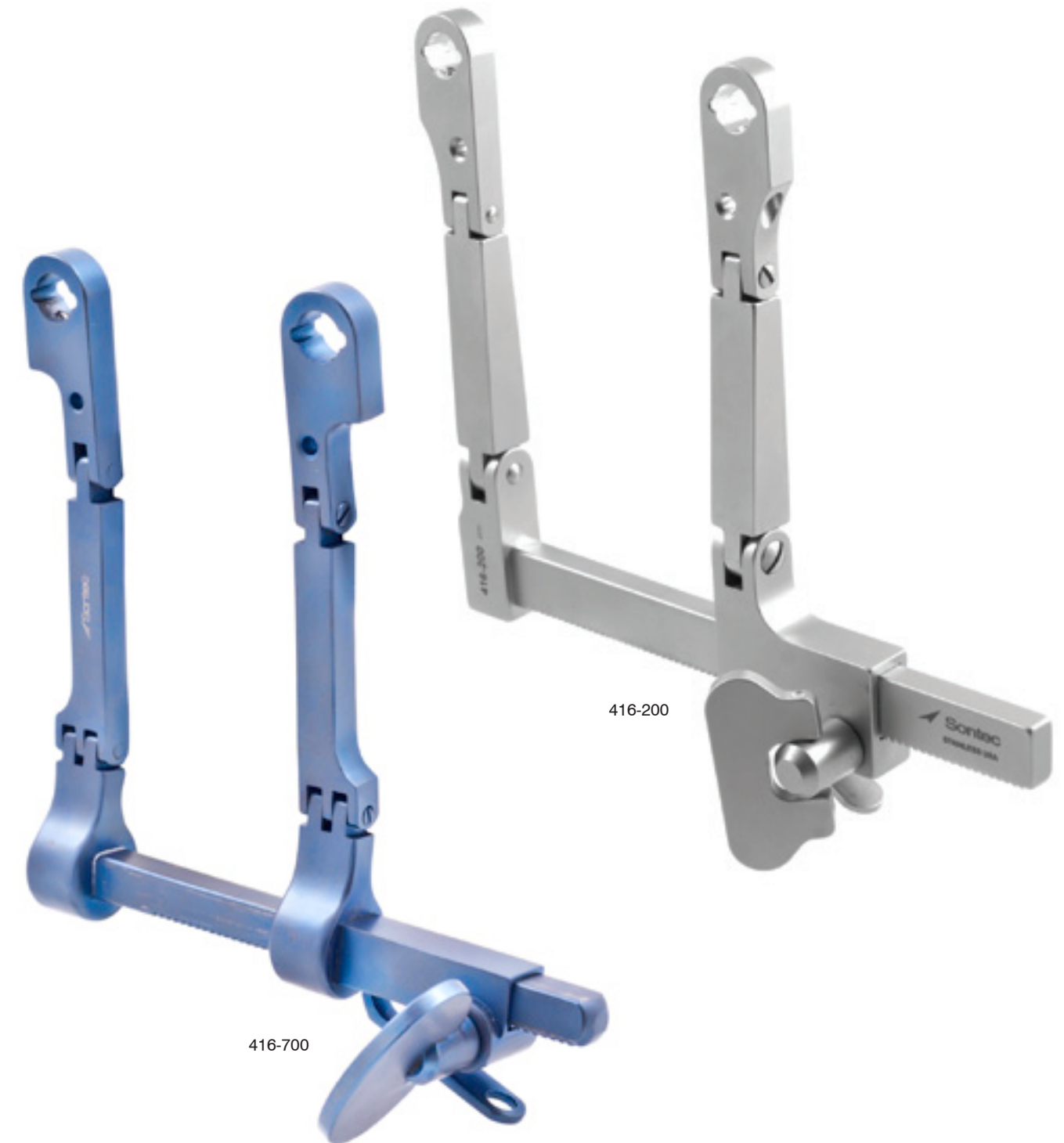
416-250 6 1/4" (16 cm)



**Caspar MIS Cervical Vertebral Column Retractor Frame**

Accommodates all blade types / double articulation / 90 mm maximum spread

416-200 stainless steel  
416-700 titanium



### Caspar Cervical Vertebral Column Retractor Frame

Rotatable arms / accommodates all blade types / double articulation / 90 mm maximum spread

416-202 stainless steel



416-202

### HL MIS Retractor Frame Medium

Accommodates all blade types / double articulation / 200 mm maximum spread

416-201



416-201

### Caspar V-Blunt Blade

#### Stainless steel

- 416-450 45 x 20 mm
- 416-452 50 x 20 mm
- 416-454 55 x 20 mm
- 416-456 60 x 20 mm
- 416-458 65 x 20 mm

#### Plastic / quick release / ultra-transparent to X-ray

- 416-460 45 x 20 mm
- 416-462 50 x 20 mm
- 416-464 55 x 20 mm
- 416-466 60 x 20 mm
- 416-468 65 x 20 mm



Stainless steel



Plastic / quick release

### Caspar Serrated Lateral Blade

#### Stainless steel

- 416-519 40 x 15 mm extra thin
- 416-520 45 x 20 mm
- 416-522 50 x 20 mm
- 416-524 55 x 20 mm
- 416-526 60 x 20 mm
- 416-528 65 x 20 mm

#### Anodized aluminum

- 416-510 45 x 20 mm
- 416-512 50 x 20 mm
- 416-514 55 x 20 mm
- 416-516 60 x 20 mm
- 416-518 65 x 20 mm

#### Plastic / quick release

- 416-530 45 x 20 mm
- 416-532 50 x 20 mm
- 416-534 55 x 20 mm
- 416-536 60 x 20 mm
- 416-538 65 x 20 mm

#### Titanium / quick release / semi-transparent to X-ray

- 416-500 45 x 22 mm
- 416-502 50 x 22 mm
- 416-504 55 x 22 mm
- 416-506 60 x 22 mm
- 416-508 65 x 22 mm



Titanium / quick release



Plastic / quick release

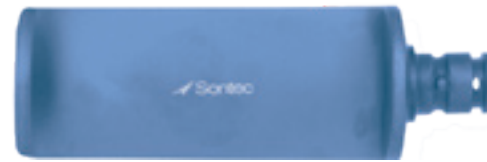


stainless steel

**Caspar Blunt Smooth Blade**

**Anodized aluminum**

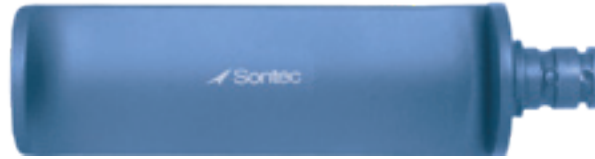
- 416-560 45 x 20 mm
- 416-562 50 x 20 mm
- 416-564 55 x 20 mm
- 416-566 60 x 20 mm
- 416-568 65 x 20 mm



Anodized titanium

**Titanium / quick release / semi-transparent to X-ray**

- 416-550 45 x 23 mm
- 416-552 50 x 23 mm
- 416-554 55 x 23 mm
- 416-556 60 x 23 mm
- 416-558 65 x 23 mm
- 416-559 75 x 23 mm



Titanium / quick release

**Medial Blade**

**Stainless steel**

- 416-400 45 x 20 mm
- 416-402 50 x 20 mm
- 416-404 55 x 20 mm
- 416-406 60 x 20 mm
- 416-408 65 x 20 mm



Aluminum

**Anodized aluminum / special order only**

- 416-410 45 x 20 mm
- 416-412 50 x 20 mm
- 416-414 55 x 20 mm
- 416-416 60 x 20 mm
- 416-418 65 x 20 mm



416-542

**Plastic / quick release / ultra-transparent to X-ray**

- 416-420 45 x 20 mm
- 416-422 50 x 20 mm
- 416-424 55 x 20 mm
- 416-426 60 x 20 mm
- 416-428 65 x 20 mm

**Titanium / quick release**

- 416-541 45 x 20 mm
- 416-542 50 x 20 mm
- 416-543 55 x 20 mm
- 416-544 60 x 20 mm
- 416-545 65 x 20 mm

**Caspar Blade Removal Forceps**

**For changing blades**

- 416-298 straight
- 416-299 angled



416-298



416-299

**Caspar Hand Universal Retractor**

**For use with the quick release blades only / with depth gauge / screw on blade lock (more secure hold)**

- 416-220 8" (20 cm)



416-220

**For use with the quick release blades only / black handle**

- 416-220L snap lock 8" (20 cm)
- 416-220B screw on blade lock 7 1/4" (18.4 cm)



416-220B

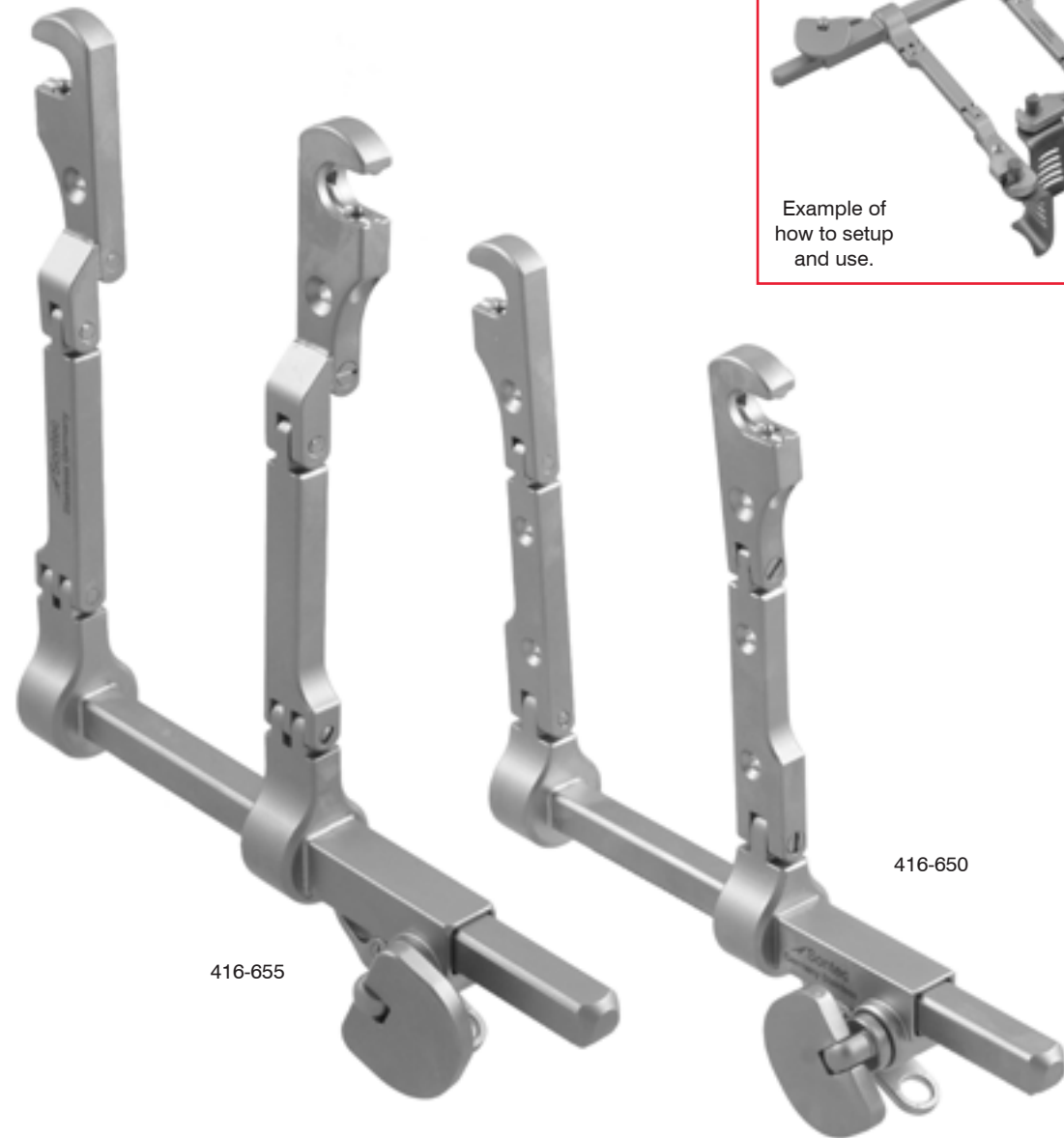
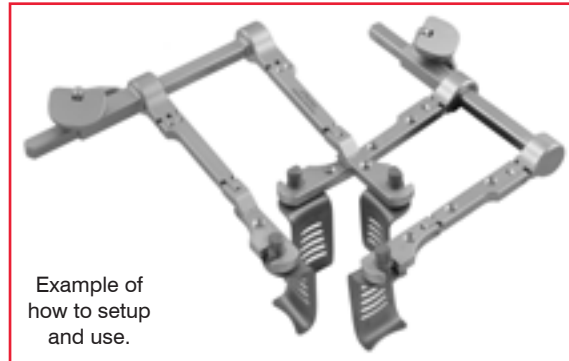


416-220L

**Caspar Cervical Vertebral Column Quick Release Retractor Frame**

Accommodates SL-Connect blades / double articulation / 90 mm maximum spread / quick release

- 416-650
- 416-655 trans-verse/stepdown



**SL - Connect Blade Insert Instrument**

7 1/4" (18m mm)

416-225



416-225

**SL - Connect Lateral Blade Titanium**

Quick release

- 416-580 24 x 45
- 416-582 24 x 50
- 416-584 24 x 55



416-580

416-582

416-584

**SL - Connect Blunt Blade Titanium**

Quick release

- 416-586 24 x 45
- 416-588 24 x 50
- 416-590 24 x 55



416-586

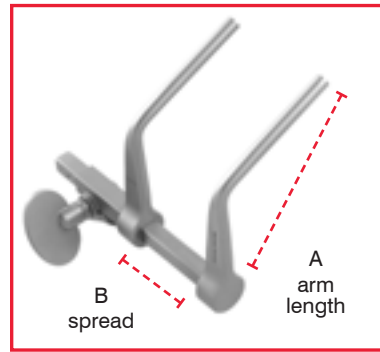
416-588

416-590

**Caspar Distractor Vertebral Retractor**

416-300 right  
416-305 left

A	B
70 mm	93 mm



416-305



416-300

**Caspar Drill Guide**

Works inconjunction with distractors pictured on previous page. Screw mechanism slides over distractor bar for drill guide.

416-340 right  
416-342 left



416-340

right



left

416-342



right

left

**Caspar Twist Drill**

416-335 1.7 mm Ø



**Caspar Screw Post**

For Distractor

416-312 12 mm  
416-314 14 mm  
416-316 16 mm



416-314



416-316

**Caspar Screwdriver**

For Distractor / also available in phenolic plastic handle / 7 3/4"

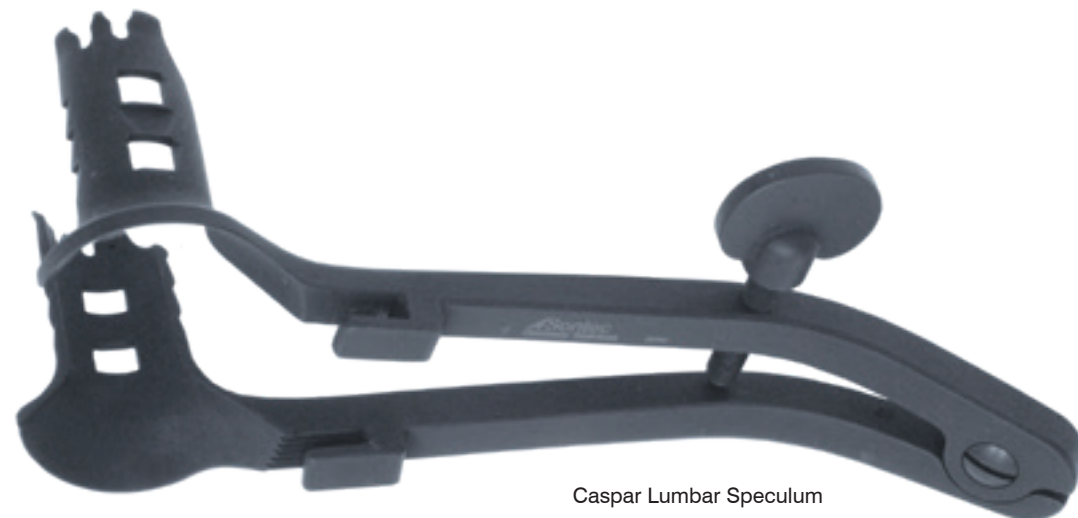
416-330



**Caspar Lumbar Speculum**

Non-reflective / anodized surface / 18 mm wide

416-820 40 mm in length  
416-821 45 mm in length  
416-822 50 mm in length  
416-823 55 mm in length  
416-824 60 mm in length  
416-825 65 mm in length  
416-826 75 mm in length  
416-827 85 mm in length



Caspar Lumbar Speculum

**Caspar Counter Retractor**

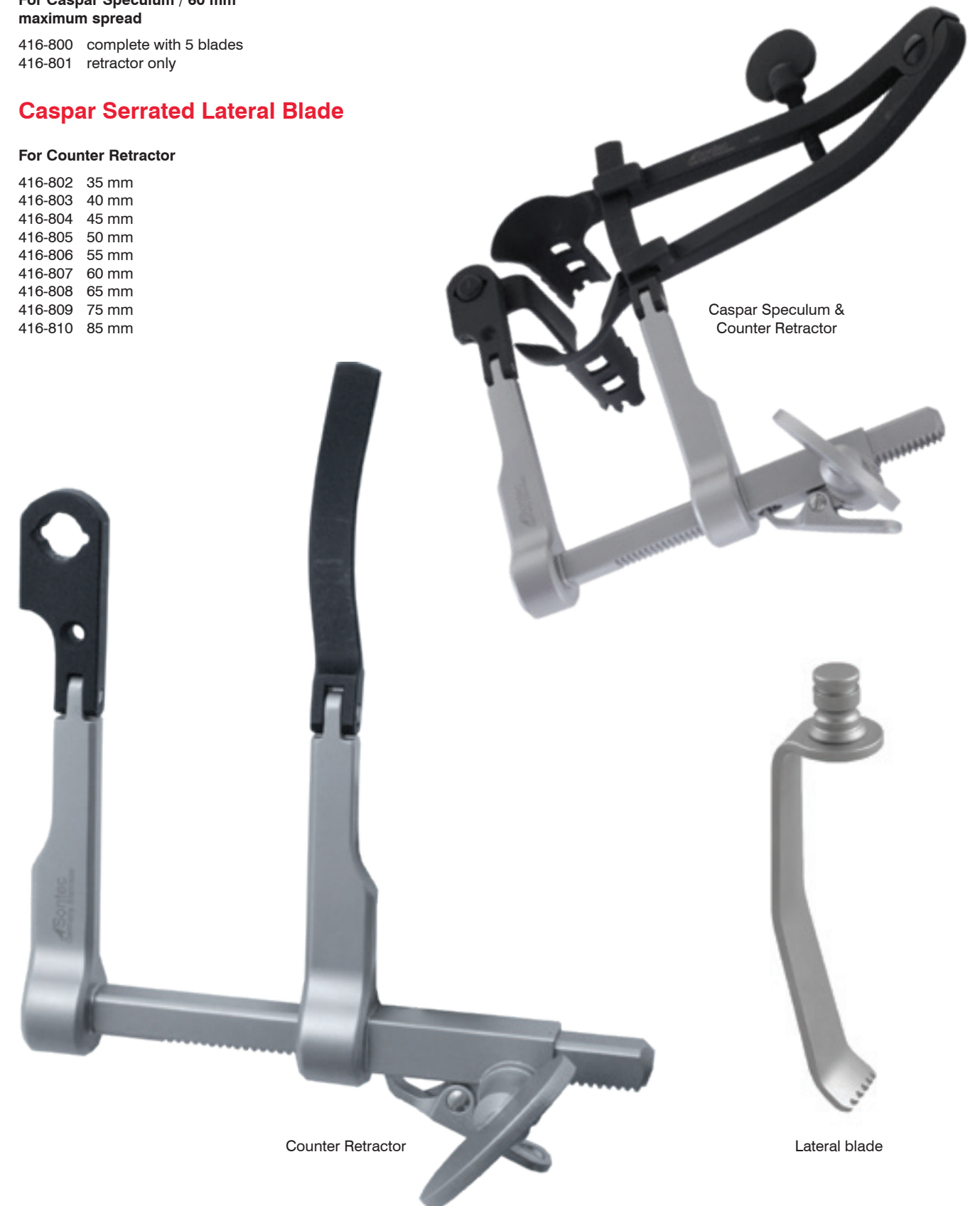
For Caspar Speculum / 60 mm maximum spread

416-800 complete with 5 blades  
416-801 retractor only

**Caspar Serrated Lateral Blade**

For Counter Retractor

416-802 35 mm  
416-803 40 mm  
416-804 45 mm  
416-805 50 mm  
416-806 55 mm  
416-807 60 mm  
416-808 65 mm  
416-809 75 mm  
416-810 85 mm



Caspar Speculum & Counter Retractor

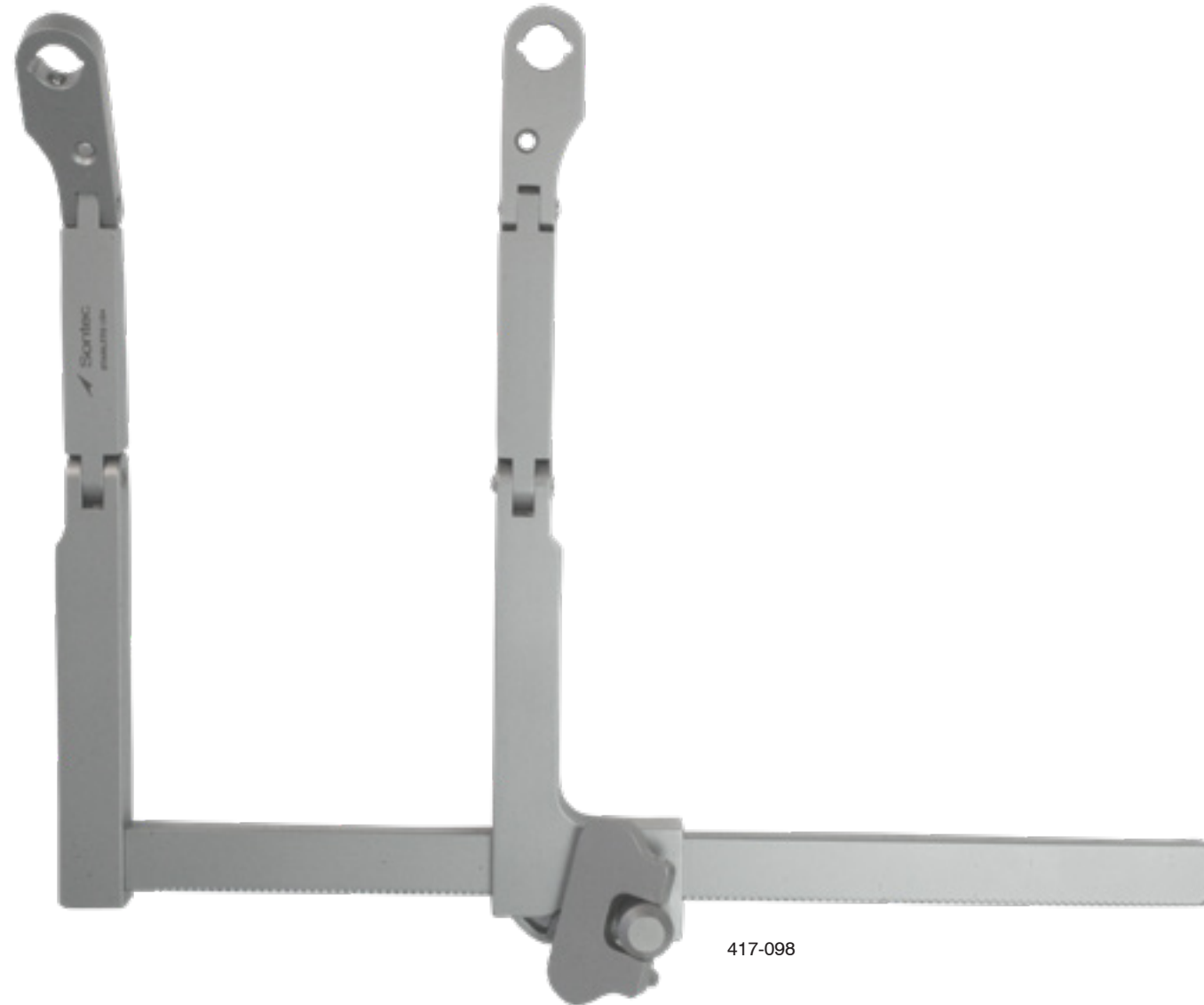
Counter Retractor

Lateral blade

**Scoville Retractor Frame**

lumbar retractor system / accommodates  
all blade types / double articulation / 8  
1/4" long with 6 1/2" arms

417-098



**Scoville Lumbar Blade**

**23 mm wide**

- 417-0030 23 x 35 mm
- 417-0031 23 x 45 mm
- 417-0032 23 x 55 mm
- 417-0033 23 x 65 mm
- 417-0034 23 x 75 mm
- 417-0035 23 x 85 mm
- 417-0036 23 x 100 mm
- 417-0037 23 x 120 mm

**45 mm wide**

- 417-0050 45 x 50 mm
- 417-0051 45 x 60 mm
- 417-0052 45 x 70 mm
- 417-0053 45 x 80 mm

**60 mm wide**

- 417-0060 60 x 50 mm
- 417-0061 60 x 60 mm
- 417-0062 60 x 70 mm
- 417-0063 60 x 80 mm
- 417-0064 60 x 100 mm
- 417-0065 60 x 120 mm



**Scoville Middle Lumbar Blade**

**15 degrees**

- 417-0135 35 mm
- 417-0136 40 mm
- 417-0137 45 mm
- 417-0138 50 mm
- 417-0139 55 mm
- 417-0140 60 mm
- 417-0141 65 mm
- 417-0142 70 mm
- 417-0143 75 mm
- 417-0144 80 mm



**Micro Lamina Spreader**

With speed lock / many tip widths available / 5 3/4" (14.5 cm)

417-058

With speed lock / deep angle / 6 3/4" (17.1 cm)

417-058D



417-058



417-058D



**Caspar Nerve-Root Retractor**

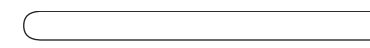
For micro lumbar dissection

416-844 4 mm

416-846 6 mm

416-848 8 mm

416-850 10 mm



416-844



416-848



416-846



416-850

**Cloward Cervical Retractor**

64 mm maximum spread

- 416-130 complete, with 5 toothed blades
- 416-131 frame only

**Blunt Blade**

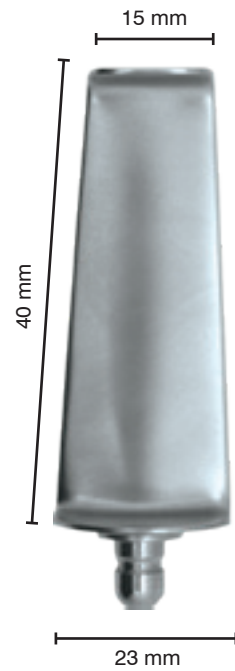
For Cloward Cervical Retractor

- 416-132 40 mm x 15/23 mm
- 416-133 45 mm x 15/23 mm
- 416-134 50 mm x 15/23 mm
- 416-135 55 mm x 15/23 mm
- 416-136 60 mm x 15/23 mm

**Round Blade**

For Cloward Cervical Retractor

- 416-138 55 mm x 20 mm
- 416-139 60 mm x 20 mm
- 416-140 65 mm x 25 mm
- 416-141 70 mm x 25 mm



**Cloward Cervical Retractor**

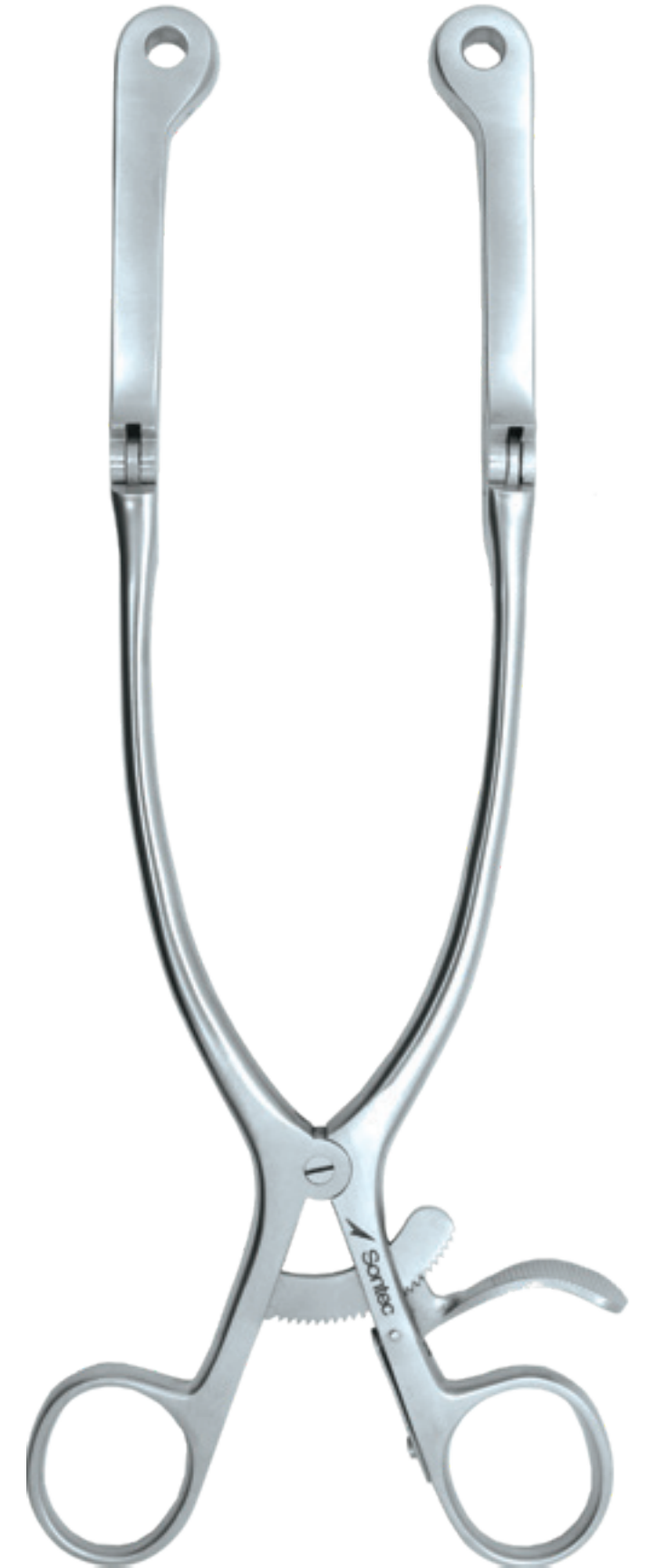
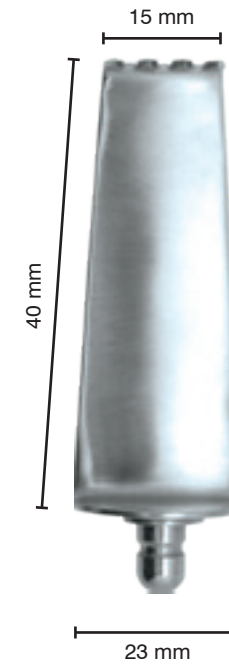
114 mm maximum spread

- 416-100 complete, with 5 toothed blades
- 416-101 frame only

**Toothed Blade**

For Cloward Cervical Retractor

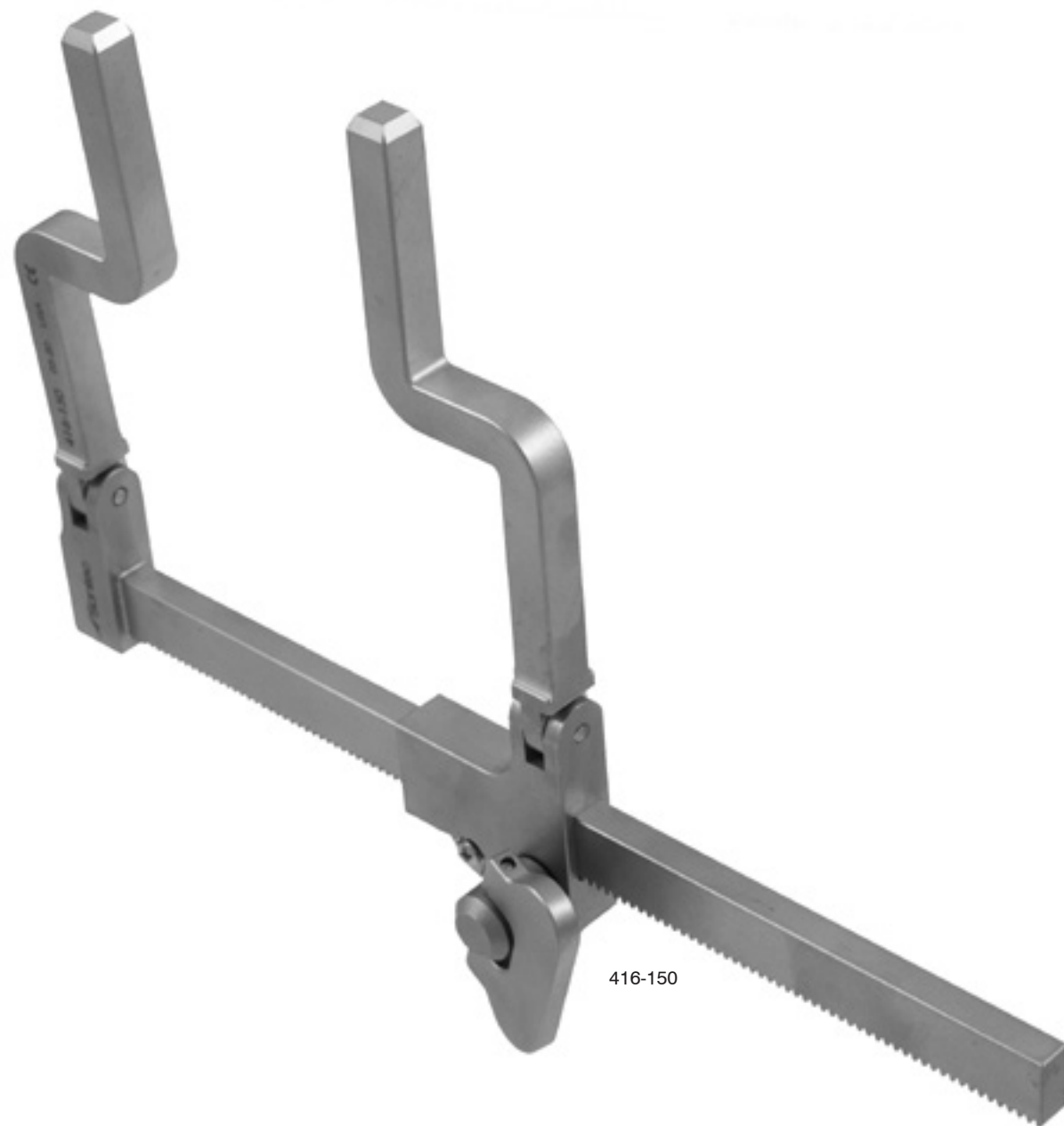
- 416-102 40 mm x 15/23 mm
- 416-103 45 mm x 15/23 mm
- 416-104 50 mm x 15/23 mm
- 416-105 55 mm x 15/23 mm
- 416-106 60 mm x 15/23 mm



**McCullough Retractor Set**

64 mm maximum spread

416-150 extended rack 8"



416-150

**McCullough Retractor Set**

64 mm maximum spread

- 416-150 extended rack 8"
- 416-152 black narrow muscle blade 2 cm x 9 cm
- 416-153 black narrow muscle blade 2 cm x 10 cm
- 416-154 black narrow muscle blade 2 cm x 11 cm
- 416-157 black wide muscle blade 2.7 cm x 9 cm
- 416-158 black wide muscle blade 2.7 cm x 10 cm
- 416-159 black wide muscle blade 2.7 cm x 11 cm
- 416-161 black hook blade 7 cm
- 416-162 black hook blade 8 cm
- 416-163 black hook blade 9 cm



416-152

416-153

416-154

416-157

416-159

416-161

416-163

**Neuro Caliper**

8 3/4" (22 cm)  
355-250



355-250

**Caspar System Complete Set**

1103-729 tray  
416-199 set Call for individual & set pricing

Set includes:

- 416-200 caspar cervical vertebral column retractor frame
- 416-220 caspar hand retractor with depth gauge 8"
- OR**
- 416-220B caspar hand retractor with screw on blade 7 1/4"
- 416-230 caspar cervical vertebral retractor "v-shape 4 1/2"
- 416-260 caspar cervical vertebral retractor 8" double articulating
- 416-280 caspar cervical vertebral retractor 6 1/2" single
- 416-299 caspar forceps for changing blades
- 416-300 caspar distractor right
- 416-305 caspar distractor left
- 416-314 screw post for distractor 14 mm
- 416-330 caspar screwdriver universal
- 416-335 caspar twist drill 1.7mm
- 416-340 drill guide 65 degree angle right phenolic handle
- 416-342 drill guide 65 degree angle left phenolic handle
- 417-058D micro lamina spreader deep angle with speed lock 6 3/4"
- assorted blades (10 sets) different sizes
- tray





 Sontec Instruments®

Brain SPATULAS

**Abdominal Spatula**

**Malleable**

20-0847	6 3/4" long x 5/8" wide	
20-0848	7 1/2" long x 1" wide	
20-0871	11" long x 1 1/2" to 2 1/2" wide	Reverdin
20-0874	8" long x 3/4" to 1" wide	Tuffier
20-0873	12" x 40 mm/50 mm	Haberer

20-0847



20-0873

Haberer



Tuffier

20-0874

**CSU Kloop Neuro Spatula**

6 1/2" (16.5 cm)

412-472



412-472

**Cushing Brain Depressor Spatula**

**Double-ended**

412-787 6 3/4" (17.1 cm)

412-789 7 3/4" (19.7 cm)



412-787



412-789

**Sontec Brain Spatula**

Tapered / malleable / 7" (18 cm)

- 412-779 2 mm
- 412-781 4 mm
- 412-783 6 mm



412-779



412-781



412-783

**Davis Brain Spatula**

Malleable / 7" (18 cm)

- 412-770 1/4"
- 412-771 3/8"
- 412-772 1/2"
- 412-773 5/8"
- 412-774 3/4"
- 412-775 1"
- 412-776 1 1/4"
- 412-777 1 1/2"



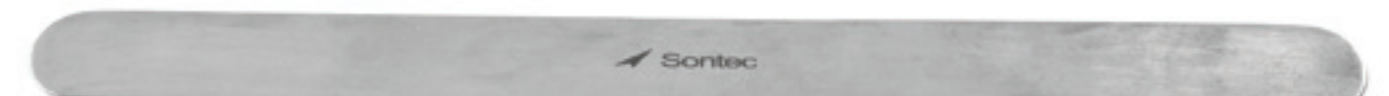
412-770



412-771



412-772



412-773



412-774



412-775

**Davis Brain Black Silicone Spatula**

**Silicone coated / malleable / 7" (18 cm)**

- 412-766 small 6 mm & 10 mm
- 412-767 medium 9 mm & 15 mm
- 412-768 large 11 mm & 20 mm
- 412-769 x-large 14 mm & 25 mm



412-766



412-767



412-768



412-769

**Davis Brain Spatula**

**Blue coated / malleable / round end**

- 412-794 2 mm 6" (15 cm)
- 412-796 4 mm 6" (15 cm)
- 412-798 6 mm 6" (15 cm)
- 412-795 2 mm 7" (18 cm)
- 412-797 4 mm 7" (18 cm)
- 412-799 6 mm 7" (18 cm)



412-794



412-797



412-799

**Blue coated / malleable / 6" (15 cm)**

- 412-790 3 prongs 3 mm
- 412-792 4 prongs 6 mm



412-790

**Blue coated / malleable / 7" (18 cm)**

- 412-791 3 prongs 3 mm
- 412-793 4 prongs 6 mm



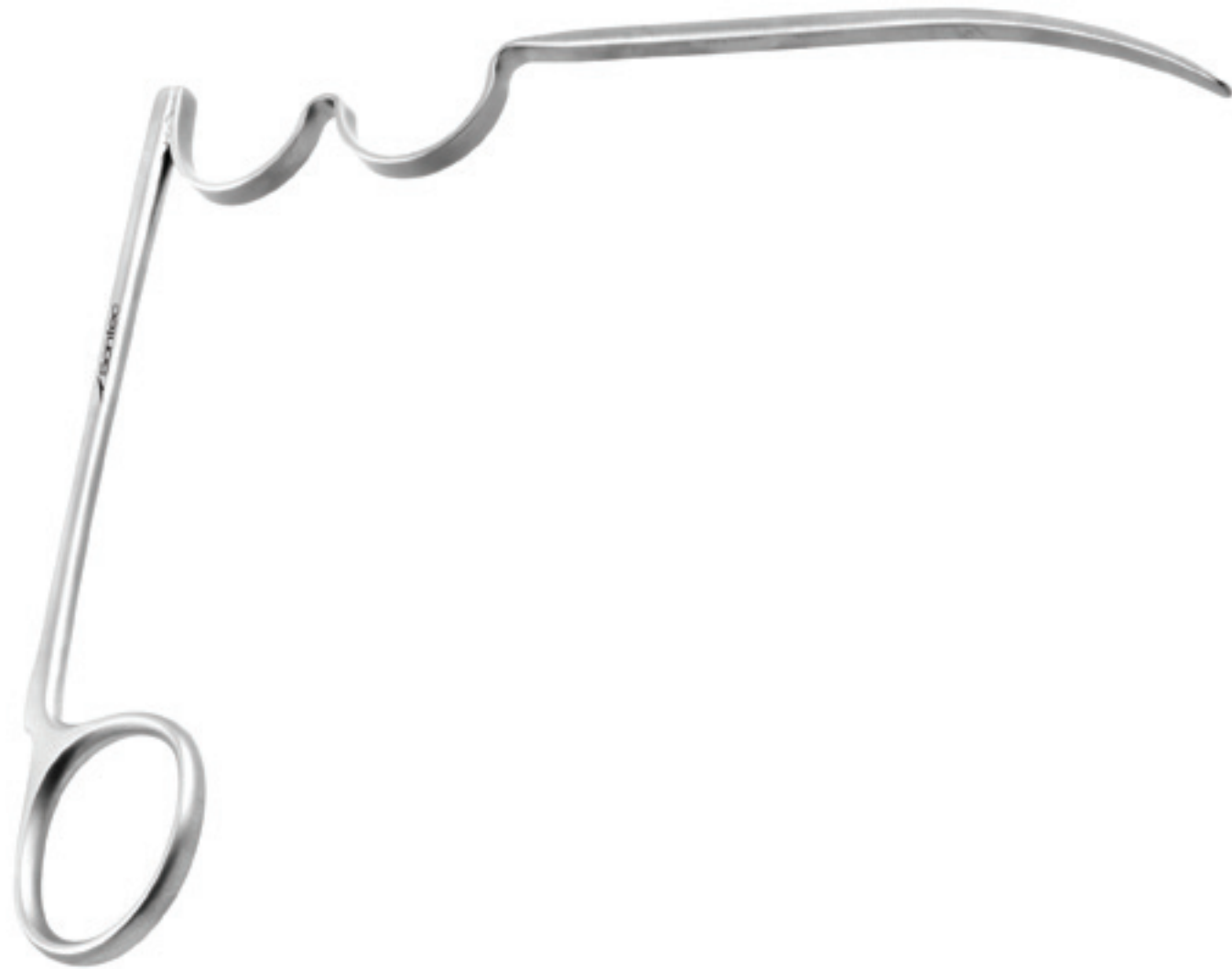
 Sontec Instruments®

Nerve RETRACTORS

**Love Nerve Root Retractor**

Ergonomic ring handle / 90 degree / double loop curved blade 5x40 mm

412-605 7" (17.8 cm)



**Sontec-Love Nerve Root Retractor**

Knurled round handle

412-607 str 9.25" (23.5 cm)

412-608 45°

412-609 90°



**Love Nerve Root Retractor**

Classic model / flat handle

- 412-610 str
- 412-612 45°
- 412-614 90°



412-610

412-612

412-614

**Suction Nerve Retractor**

5" working length

- 412-721 4/2 mm 10 3/4" (27 cm)
- 412-722 7/3 mm 10 3/4" (27 cm)



412-721

412-722

**Suction Nerve Retractor**

7 french / 8" (20.3 cm)

- 412-7256 6 mm
- 412-7257 7 mm
- 412-7258 8 mm



412-7257

**Lighted Smith Nerve Retractor**

7/16 mm / 5" working length / 10 3/4" (27.3 cm)  
412-723

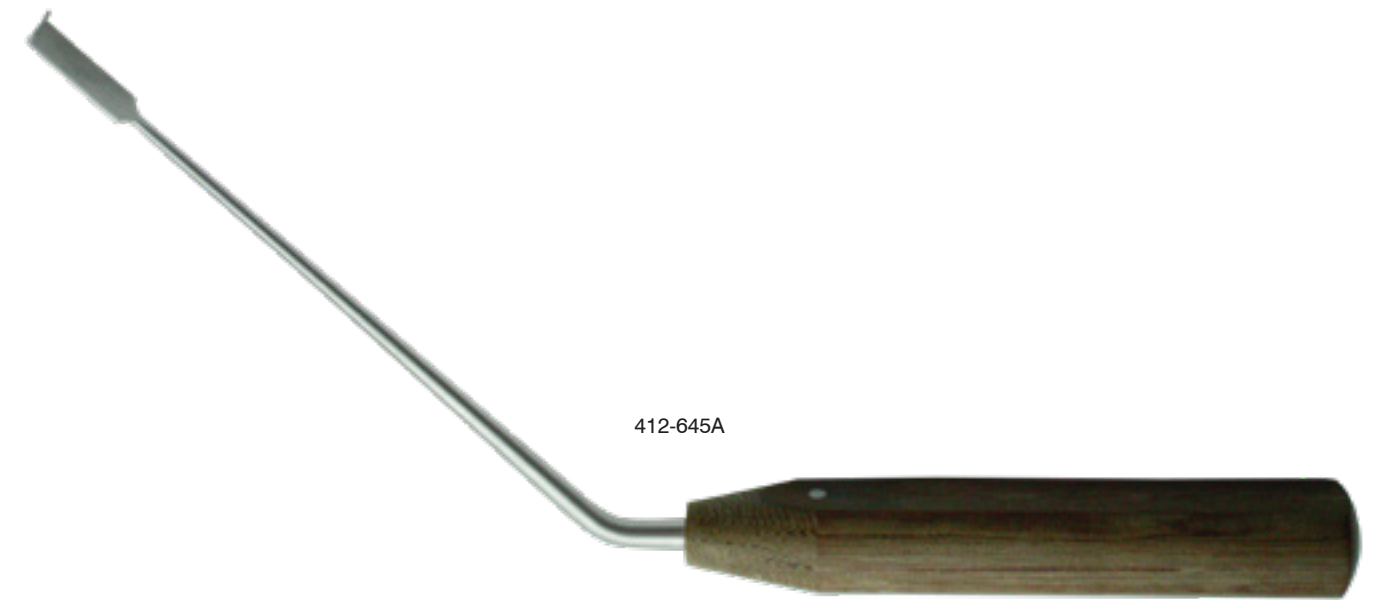


412-723

**Wide Scoville Nerve Root Retractor**

Phenolic handle / 9" (23cm)  
412-645A 10 mm  
412-645B 12 mm  
412-645C 14 mm

12 mm & 14mm have limited availability



412-645A

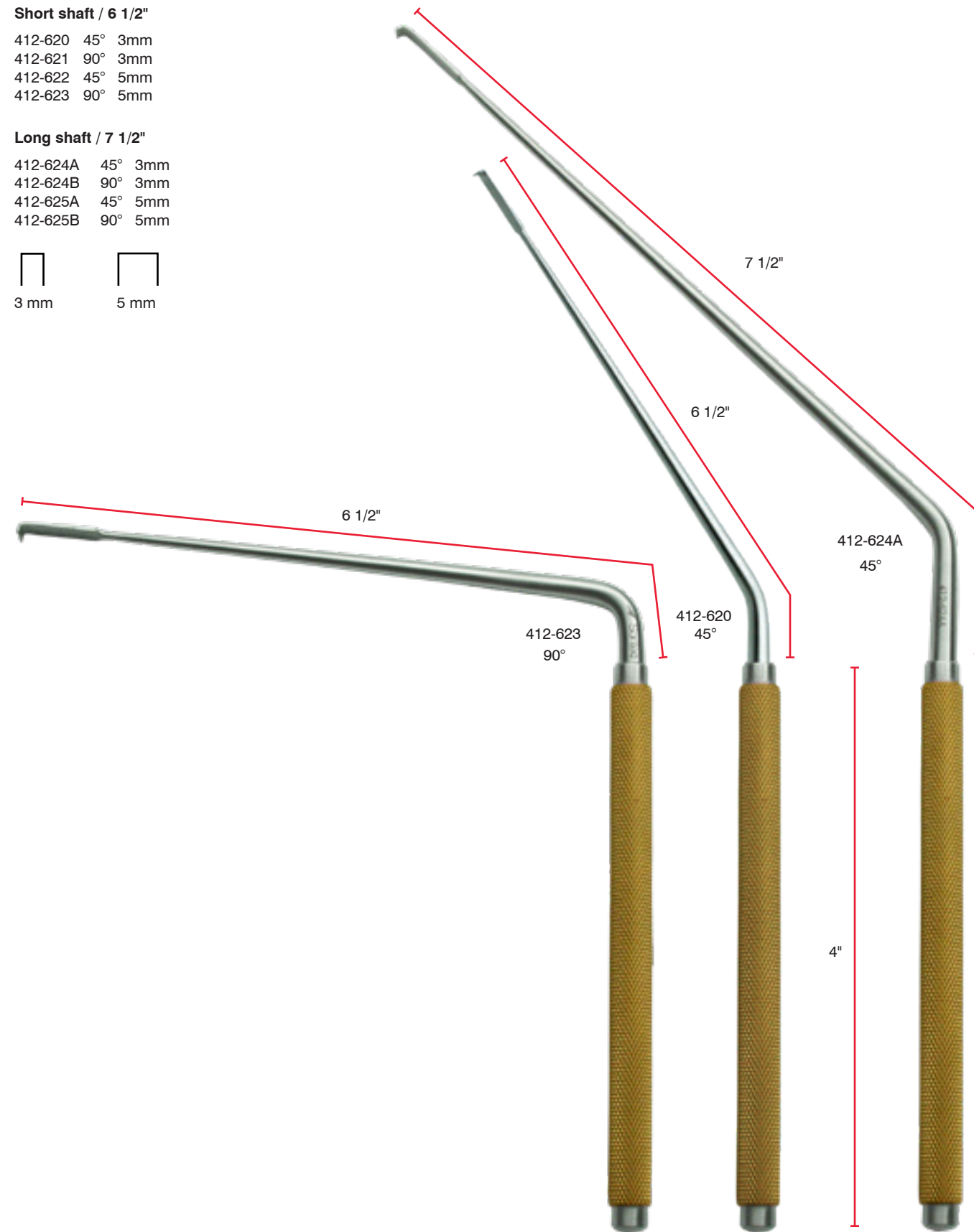
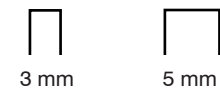
**Hess Nerve Retractor**

**Short shaft / 6 1/2"**

- 412-620 45° 3mm
- 412-621 90° 3mm
- 412-622 45° 5mm
- 412-623 90° 5mm

**Long shaft / 7 1/2"**

- 412-624A 45° 3mm
- 412-624B 90° 3mm
- 412-625A 45° 5mm
- 412-625B 90° 5mm



**Scoville Nerve Root Retractor**

**5" from bend / 10.5" (27 cm) / 8 mm**

- 412-643A straight
- 412-643B 45°
- 412-643C 90°
- 412-643D bayonet

\* 3 & 5 available on request

**7" from bend / 8 mm longer / 9" (23 cm)**

- 412-644A 45°
- 412-644B 90°
- 412-644C full curved

\* 3 & 5 available on request





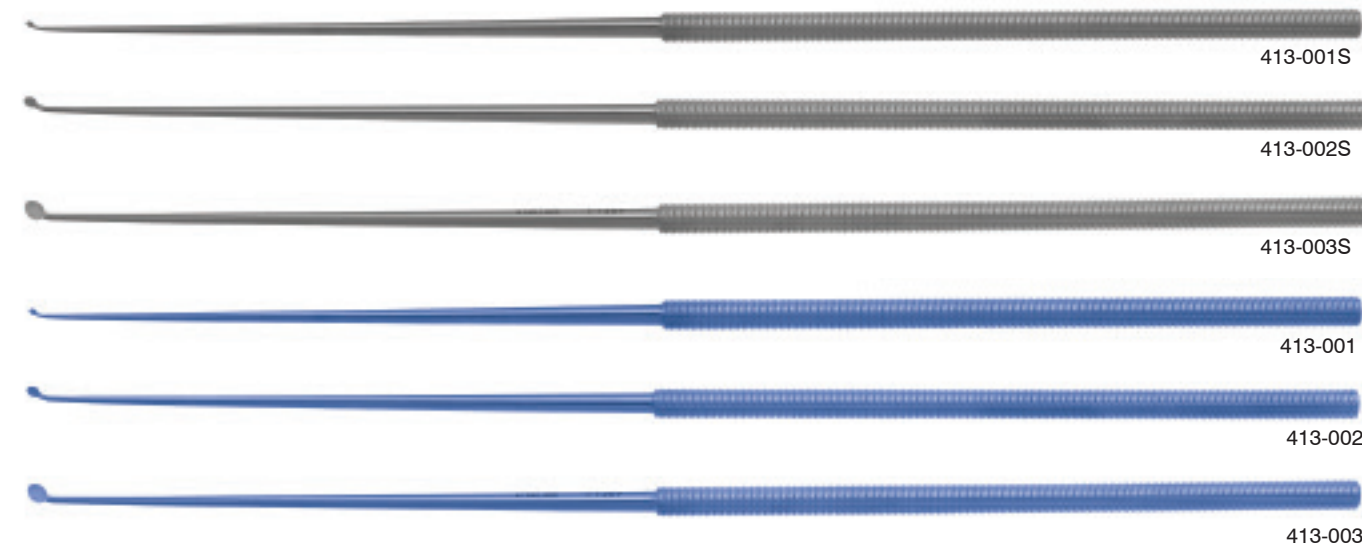
 Sontec Instruments®

Rhoton Jacobson Curette & Dissector Hook Set

**Rhoton Circular Dissector 45°**

Stainless steel / 7 1/2" (19 cm)

413-001S	1 mm	stainless steel
413-001	1 mm	titanium
413-002S	2 mm	stainless steel
413-002	2 mm	titanium
413-003S	3 mm	stainless steel
413-003	3 mm	titanium



**Rhoton Dissector / Raspatory**

7 1/2" (19 cm)

413-004S	2.8 mm	curved	stainless steel
413-004	2.8 mm	curved	titanium
413-005S	1 mm	angled	stainless steel
413-005	1 mm	angled	titanium



**Jacobson Hook**

Sharp / 2 mm / 90° / 7 1/2" (19 cm)

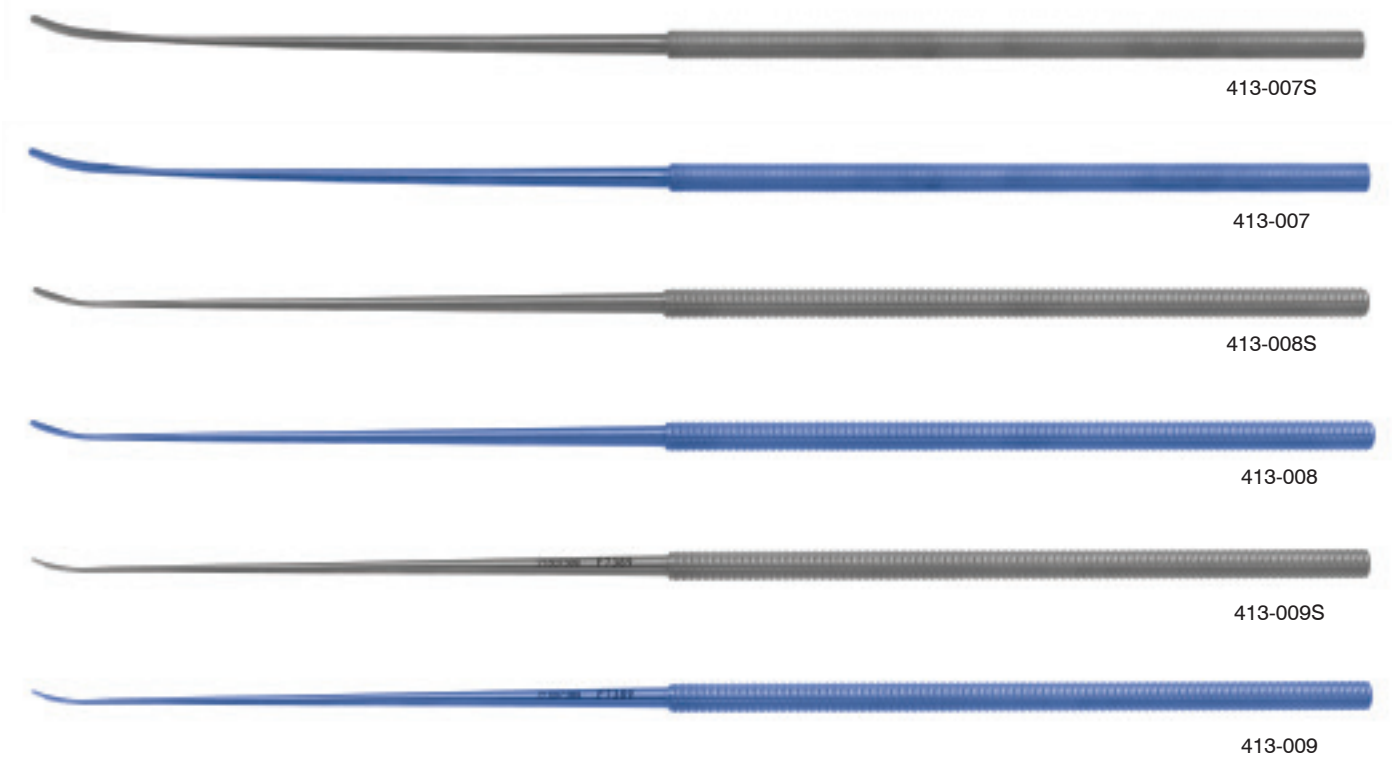
413-006S	stainless steel
413-006	titanium



**Rhoton Dissector / Raspatory**

Semi-sharp / 25° / 7 1/2" (19 cm)

413-007S	1.5 mm	stainless steel
413-007	1.5 mm	titanium
413-008S	2 mm	stainless steel
413-008	2 mm	titanium
413-009S	1 mm	stainless steel
413-009	1 mm	titanium



**Rhoton Hook**

7 1/2" (19 cm)

413-010S	90°	2 mm	blunt	stainless steel
413-010	90°	2 mm	blunt	titanium
413-011S	45°	3 mm	semi sharp	stainless steel
413-011	45°	3 mm	semi sharp	titanium



**Rhoton Pick**

Semi Sharp / straight / 7 1/2" (19 cm)

413-012S	stainless steel
413-012	titanium



**Rhoton Curette**

1 x 2 mm / 7 1/2" (19 cm)

413-013S	straight	stainless steel
413-013	straight	titanium
413-014S	45° angled	stainless steel
413-014	45° angled	titanium



**Jacobson Button End Probe**

Straight / blunt / 1 mm / 7 1/2" (19 cm)

413-015S	stainless steel
413-015	titanium



**Jacobson Hook Probe**

Angled 45° / 1x8 mm long / 7 1/2" (19 cm)

413-019S	stainless steel
413-019	titanium



**Jacobson Button End Hook Probe**

Angled 90° / 1 x 3.5 mm / 7 1/2" (19 cm)

413-016S	stainless steel
413-016	titanium



**Jacobson Hook Probe**

Blunt / Angled 90° / 1x5 mm long / 7 1/2" (19 cm)

413-017S	stainless steel
413-017	titanium

Blunt / Angled 45° / 1x5 mm long / 7 1/2" (19 cm)

413-018S	stainless steel
413-018	titanium





 Sontec Instruments®

Spinal RASPS

**Long Handle File**

Black plastic handle /  
square file / 18" (45.7 cm)

320-591 straight  
320-592 15° angle

Black plastic handle / round  
file / straight / 18" (45.7 cm)

320-593



320-591



320-593



320-592

**JPS Bone File**

8 3/4" (22.2 cm)

345-217



back



front

345-217

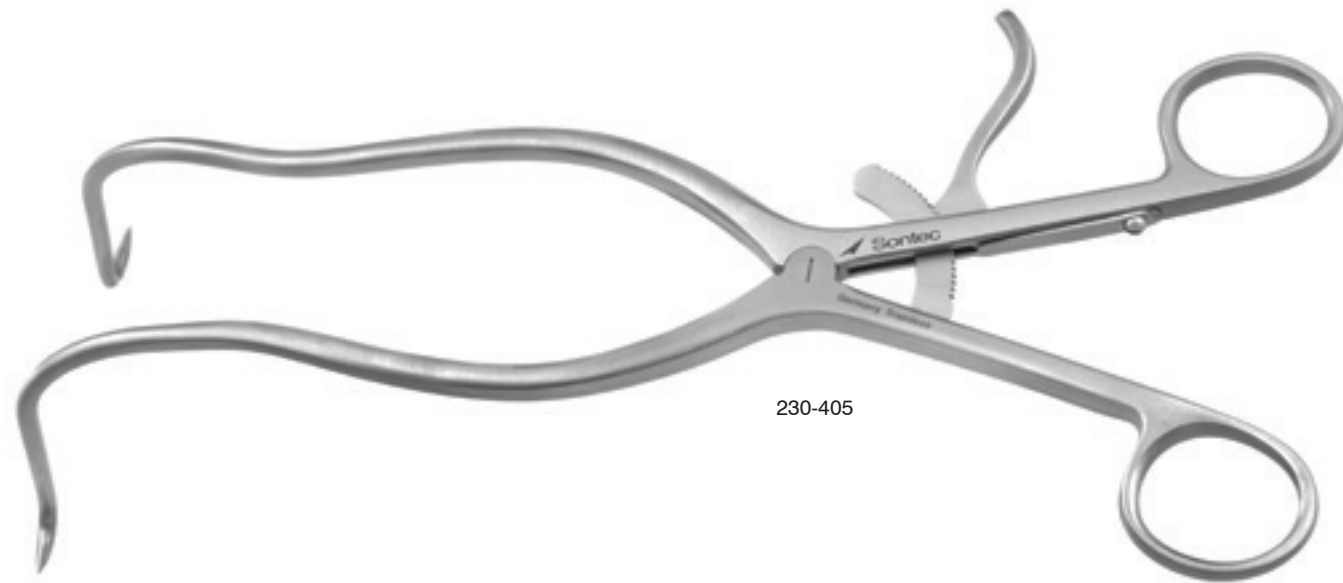


 Sontec Instruments®

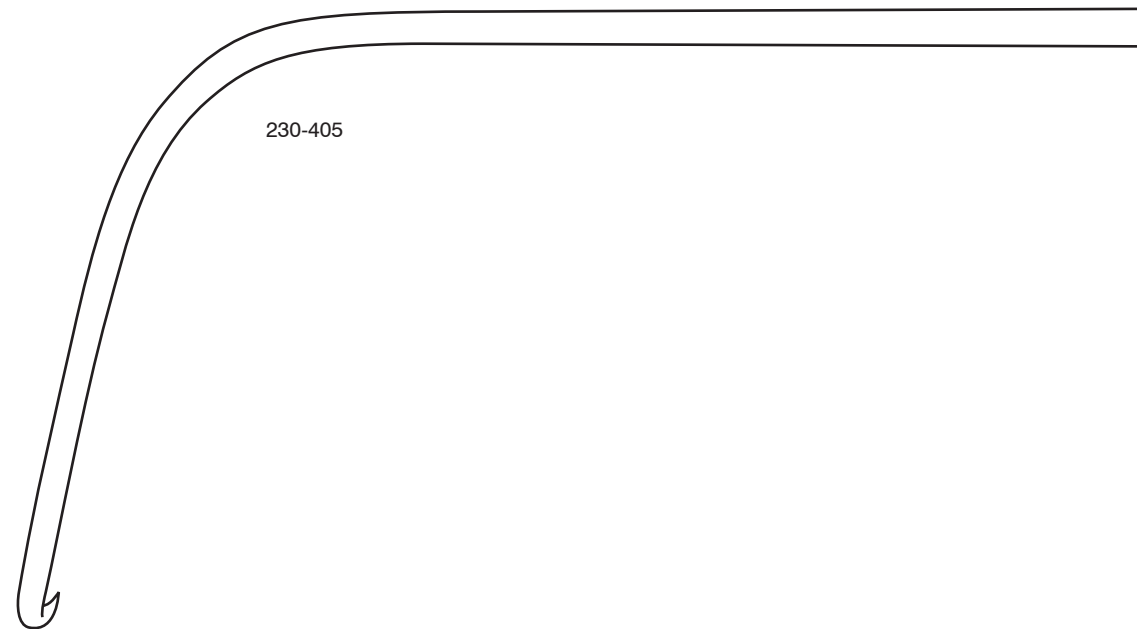
Spinal RETRACTORS

**Gelpi Original Spinal Retractor**

Deep angle / parallel tips / multilevel distraction  
230-405



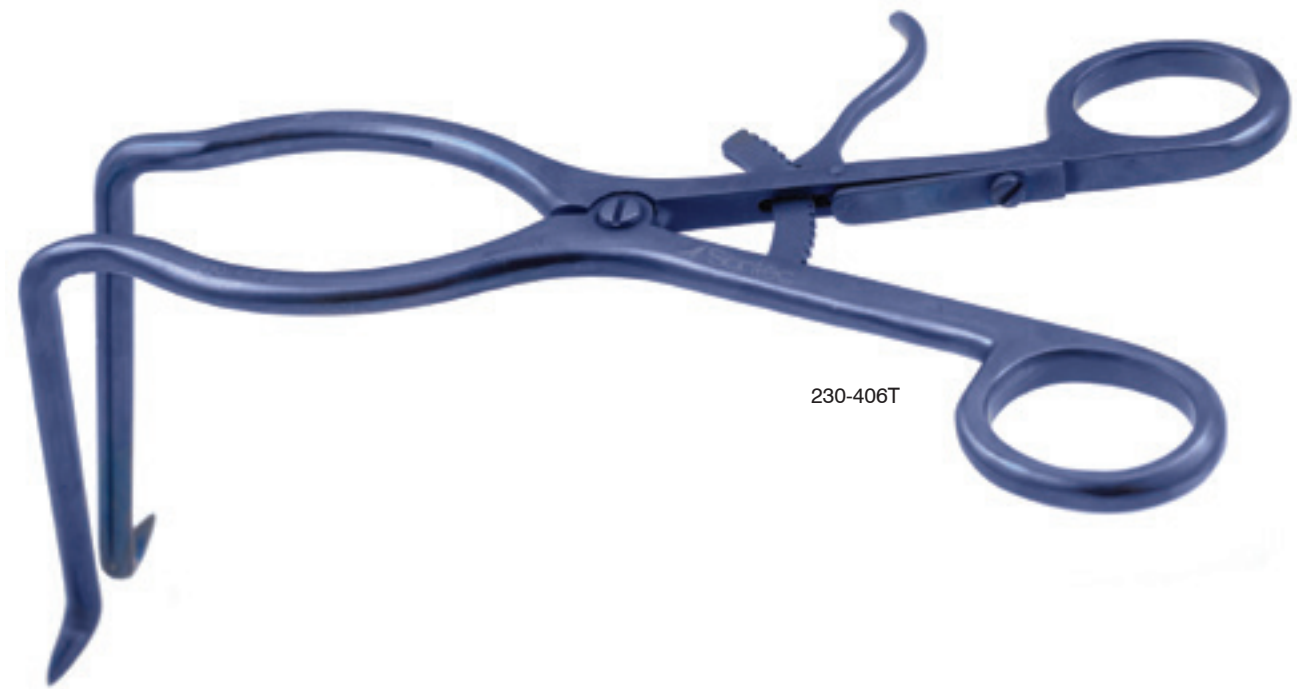
230-405



230-405

**Gelpi Retractor Titanium**

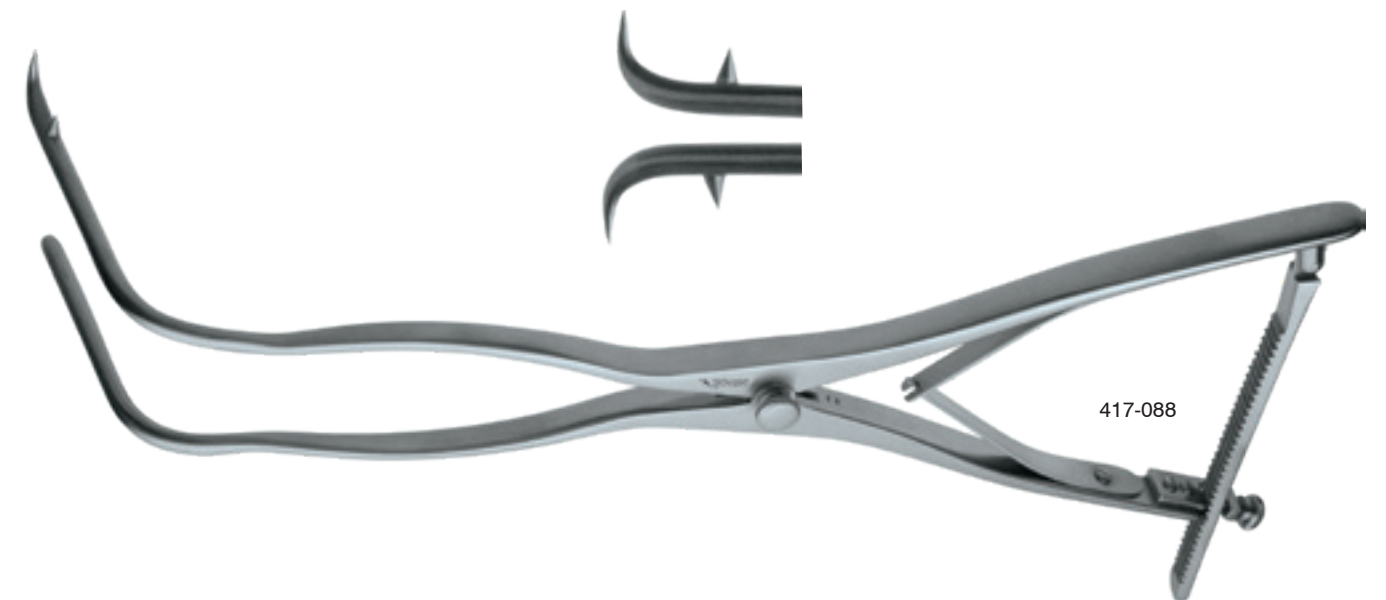
Parallel tips / multilevel distraction /  
9.5" (24 cm)  
230-406T deep angle  
230-406N neroma



230-406T

**Gelpi Spinal Retractor**

Deep angle / double prongs / with  
ratchet / 13" (33 cm)  
417-088

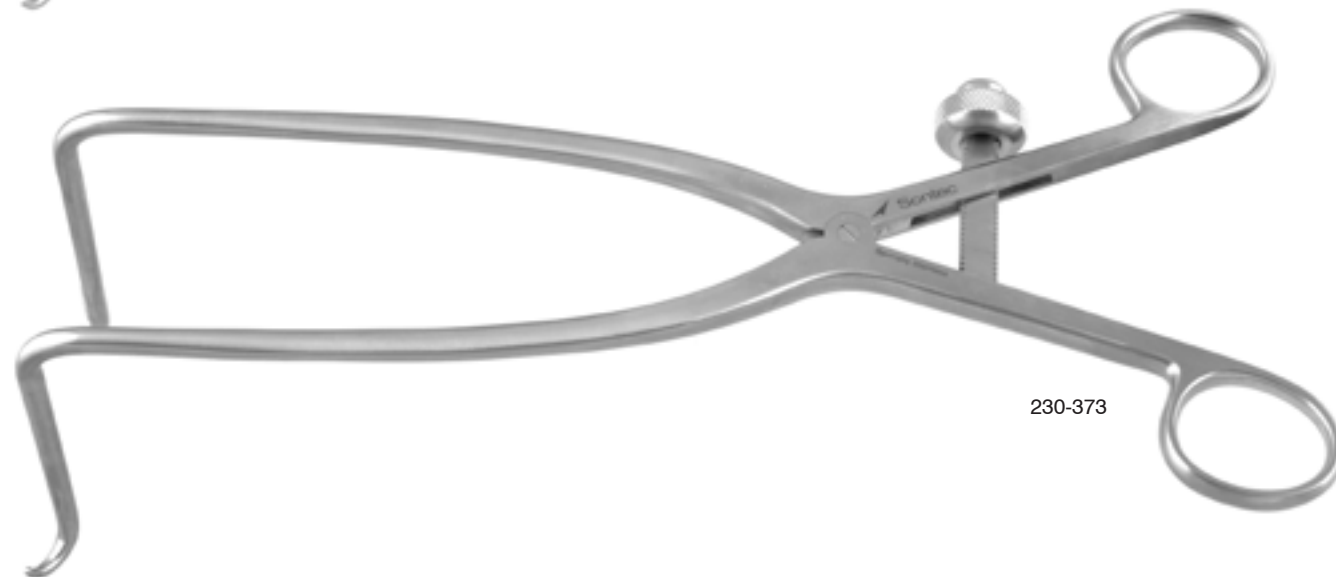
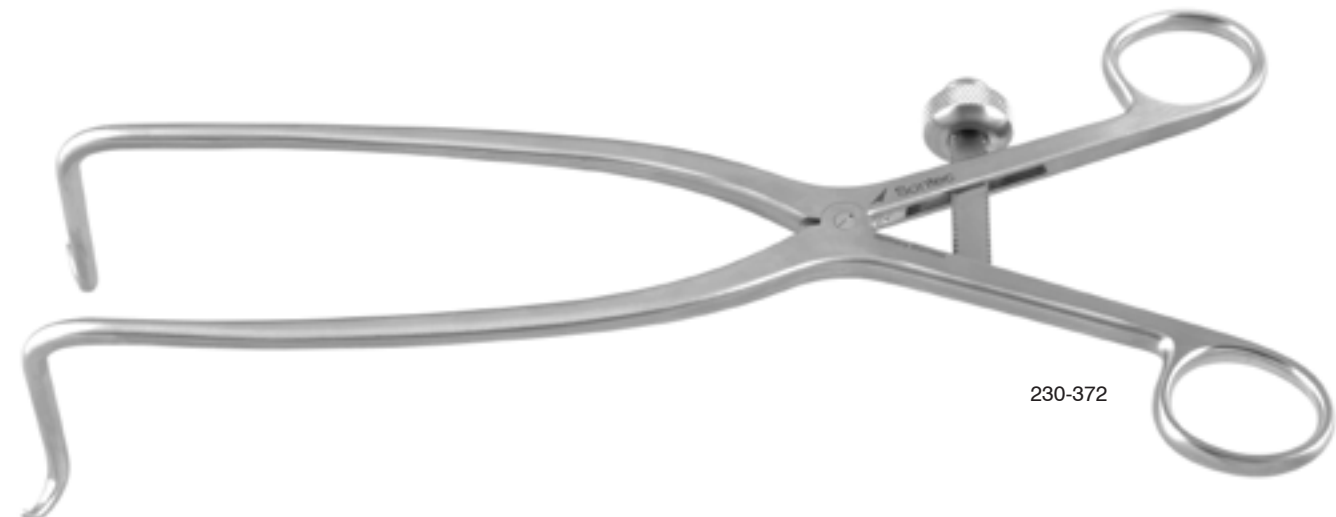
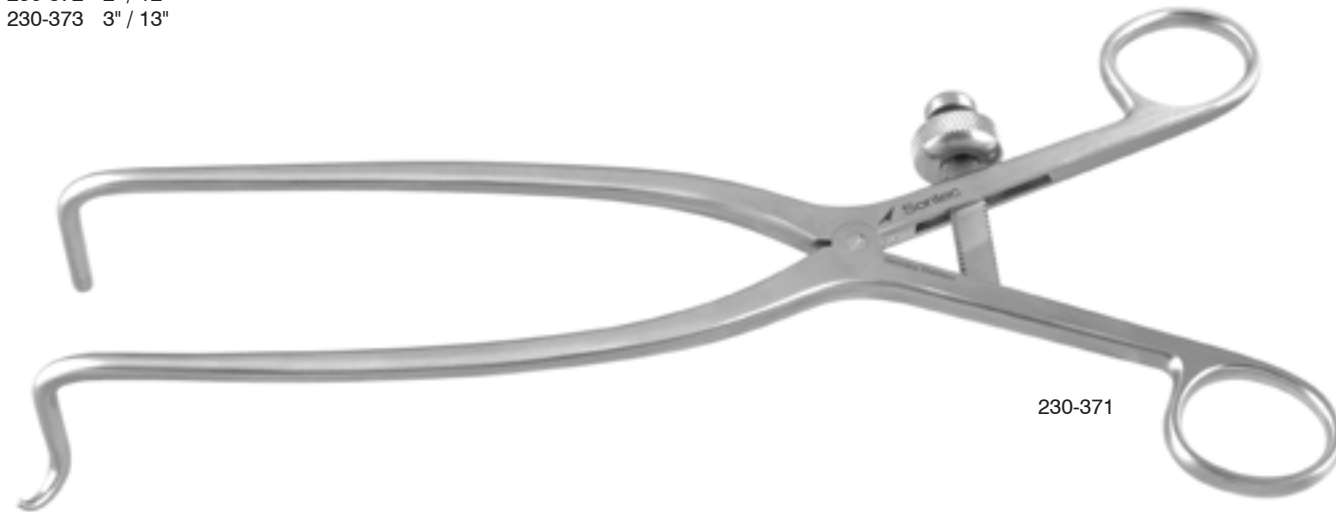


417-088

**Gelpi Spinal Retractor**

90° angle / with speed lock

- 230-371 1.5" / 11.5"
- 230-372 2" / 12"
- 230-373 3" / 13"



**Gelpi Spinal Retractor**

90° angle / with speed lock

- 230-374 4" / 14"
- 230-375 5" / 15"



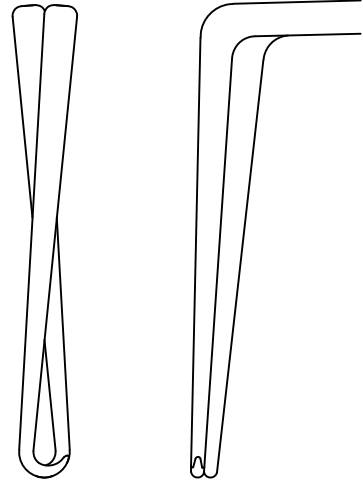
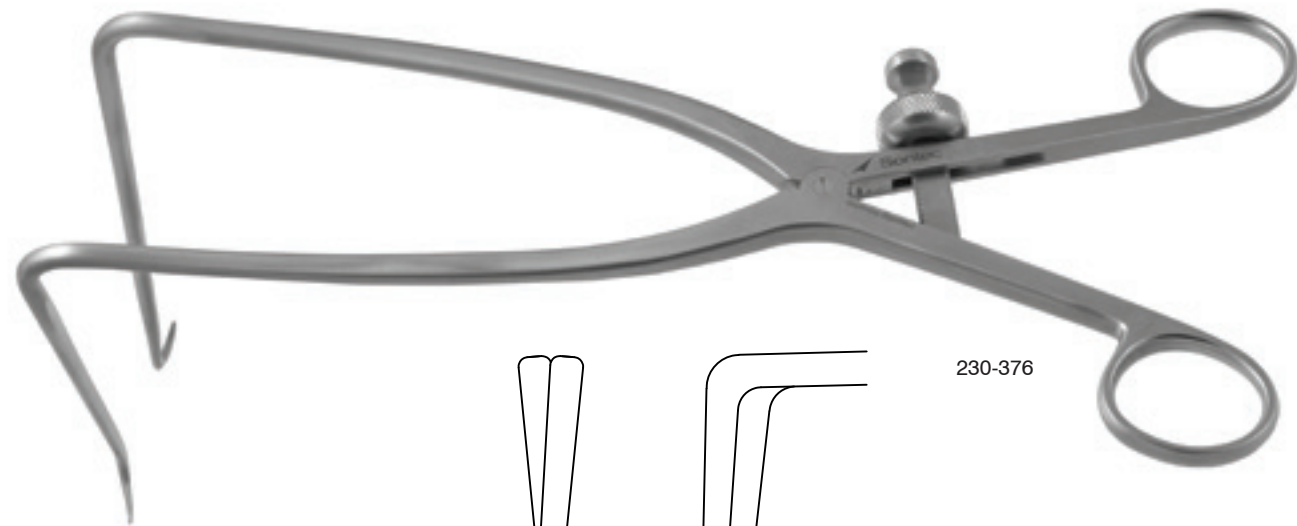
**Neroma Gelpi Spinal Retractor**

90° angle / blunt / with speed lock

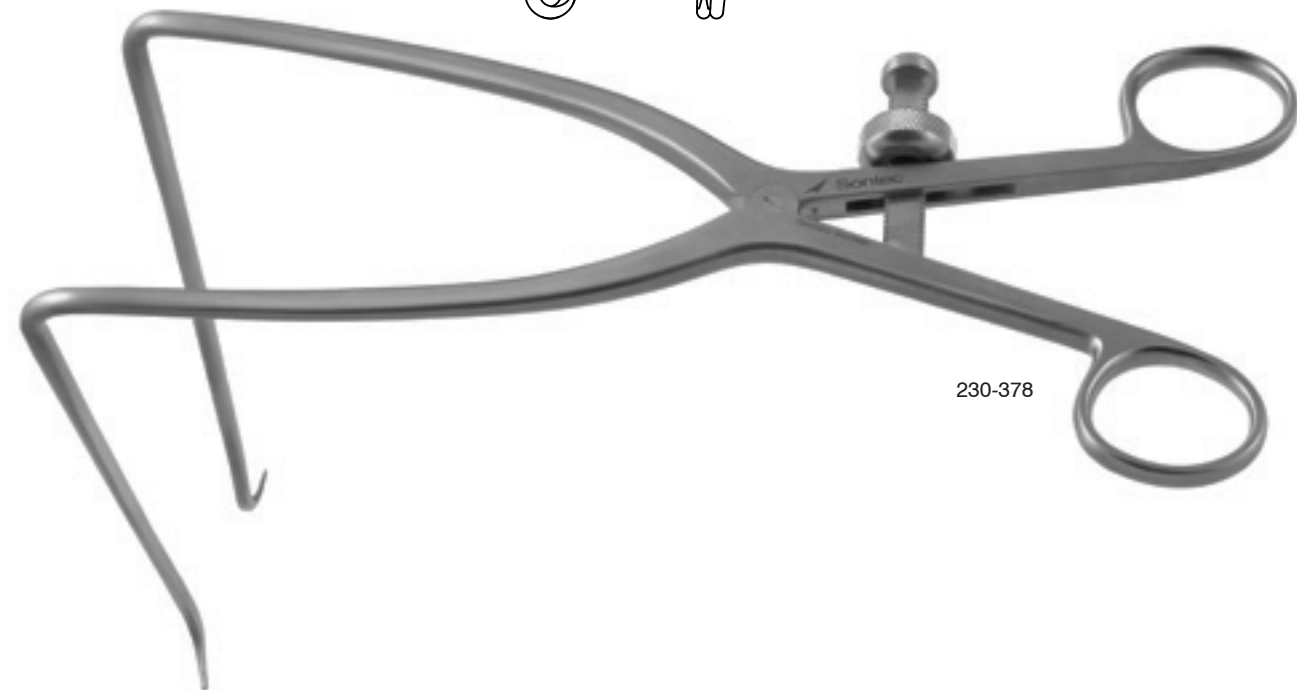
230-376 14" overall length with 4" deep arms

230-378 15" overall length with 5" deep arms

\* special order, minimum order 5 each



230-376



230-378

**Weitlaner Retractor**

Hinged arms / 3 x 4 prongs

1100-636 sharp 5 1/2" (14 cm)

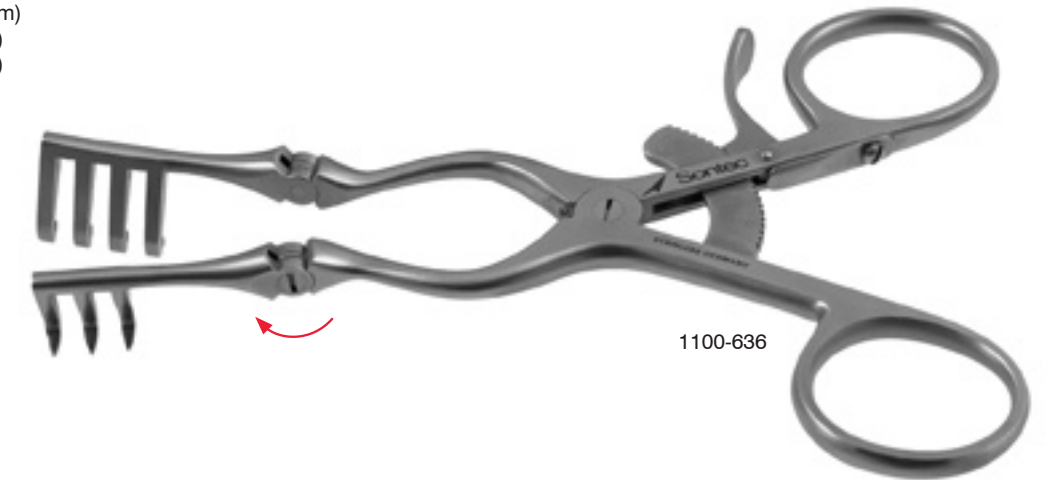
1100-638 blunt 5 1/2" (14 cm)

1100-640 sharp 6 1/4" (16 cm)

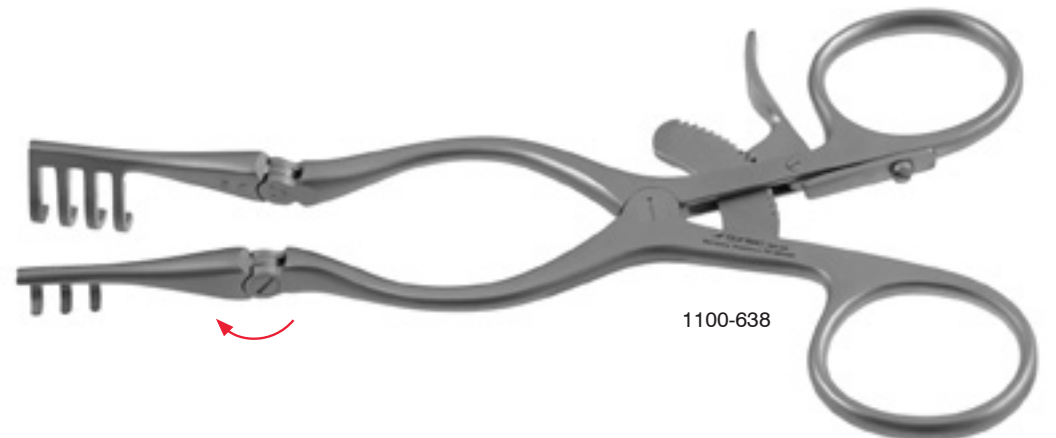
1100-642 blunt 6 1/4" (16 cm)

1100-644 sharp 8" (20.5 cm)

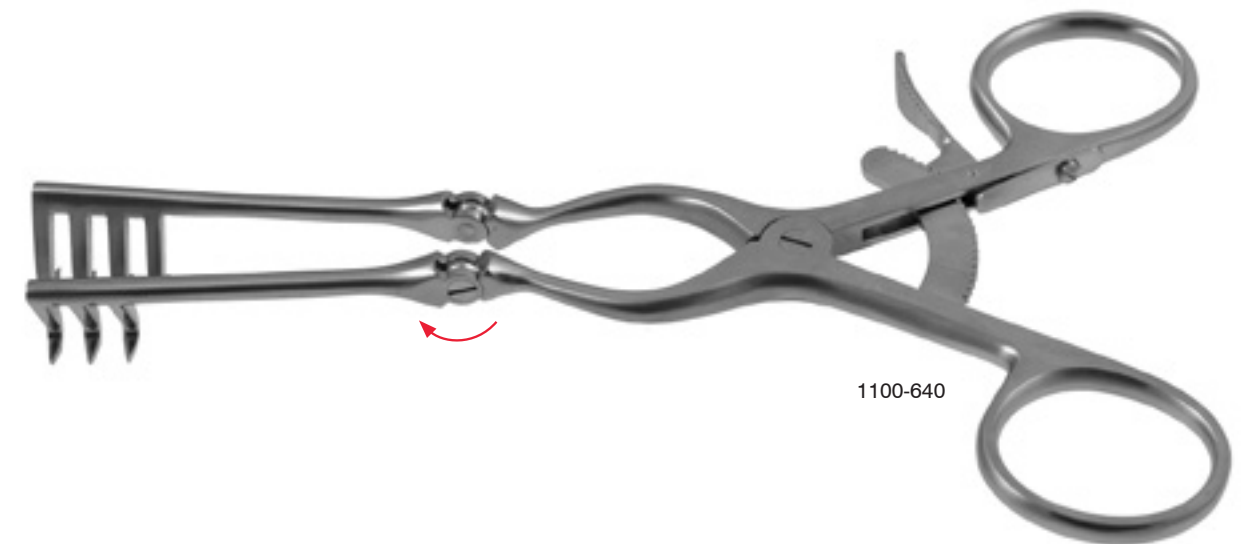
1100-644B blunt 8" (20.5 cm)



1100-636



1100-638



1100-640

**Adson Cerebella Retractor**

4 x 4 sharp prongs / 7 1/2" (19 cm)

230-480 straight arms

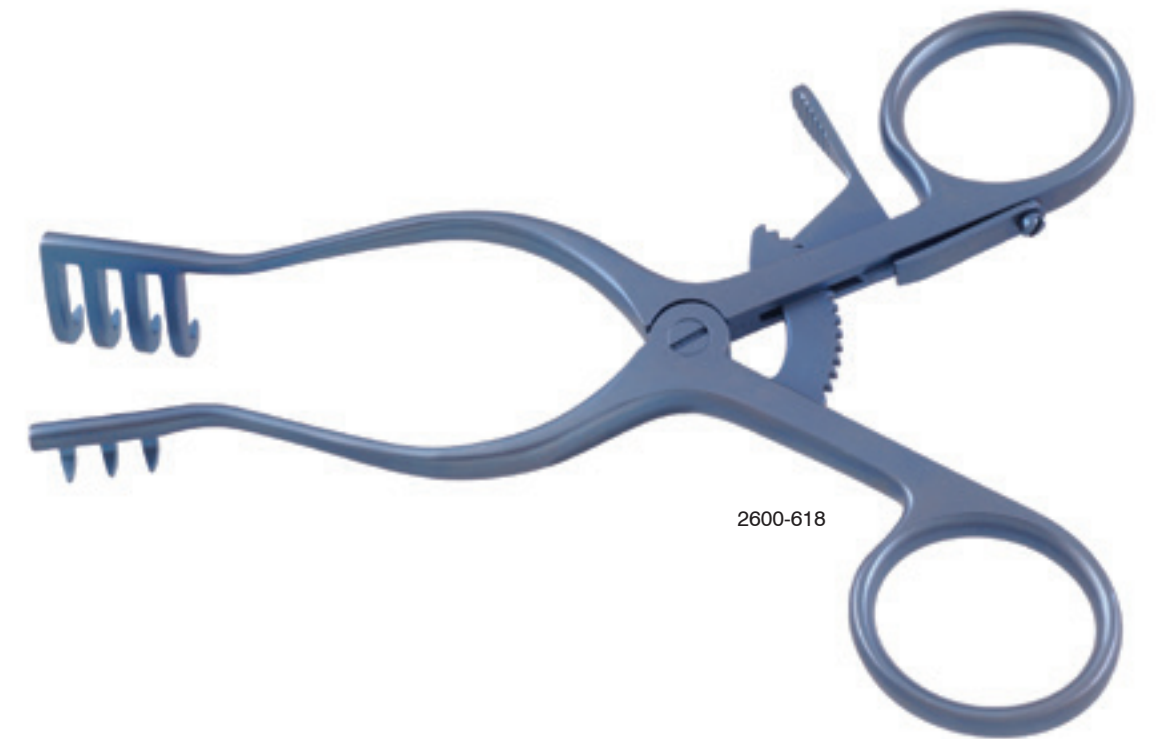
230-486 angled arms



**Weitlaner Retractor Titanium**

3x4 prongs / sharp / 5 1/2" (14 cm)

2600-618



**Weitlaner Retractor**

**2 x 3 prongs**

- 1100-616 sharp 4" (10 cm)
- 1100-617 blunt 4" (10 cm)

**3 x 4 prongs**

- 1100-618 sharp 5 1/2" (14 cm)
- 1100-619 blunt 5 1/2" (14 cm)
- 1100-620 sharp 6 1/4" (16 cm)
- 1100-621 blunt 6 1/4" (16 cm)
- 1100-622 sharp 8" (20.5 cm)
- 1100-623 blunt 8" (20.5 cm)
- 1100-624 sharp 9 1/2" (24 cm)
- 1100-625 blunt 9 1/2" (24 cm)



sharp



blunt



1100-617



1100-618

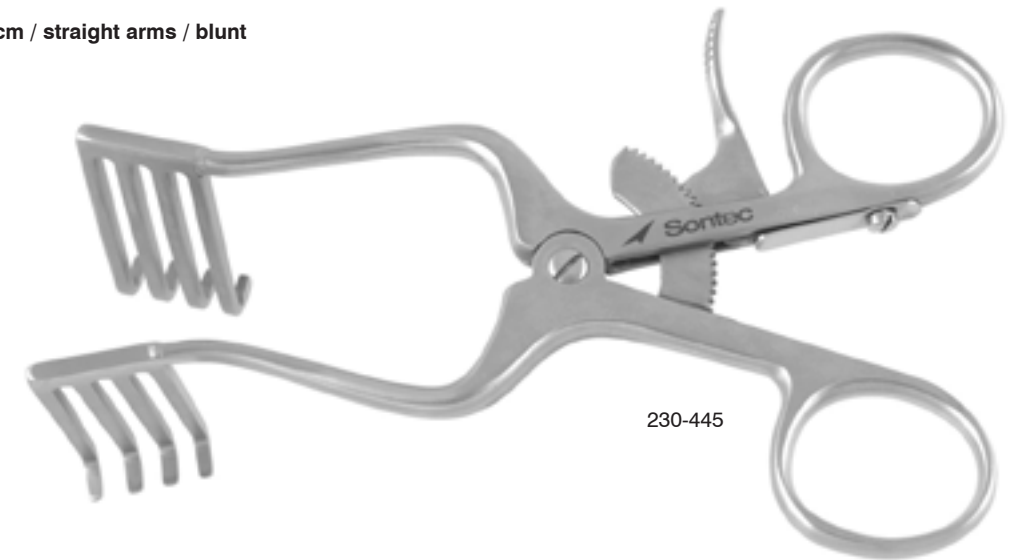


1100-619

**Weitlaner Extended Blades Retractor**

With 4 prongs / prong depth 3.5 cm / straight arms / blunt tips / 4 1/2" (11.4 cm)

230-445



230-445

**Beckman-Adson Retractor**

4 x 4 prongs / 12 1/4" (31 cm) / hinged

- 1100-645B blunt
- 1100-645S sharp

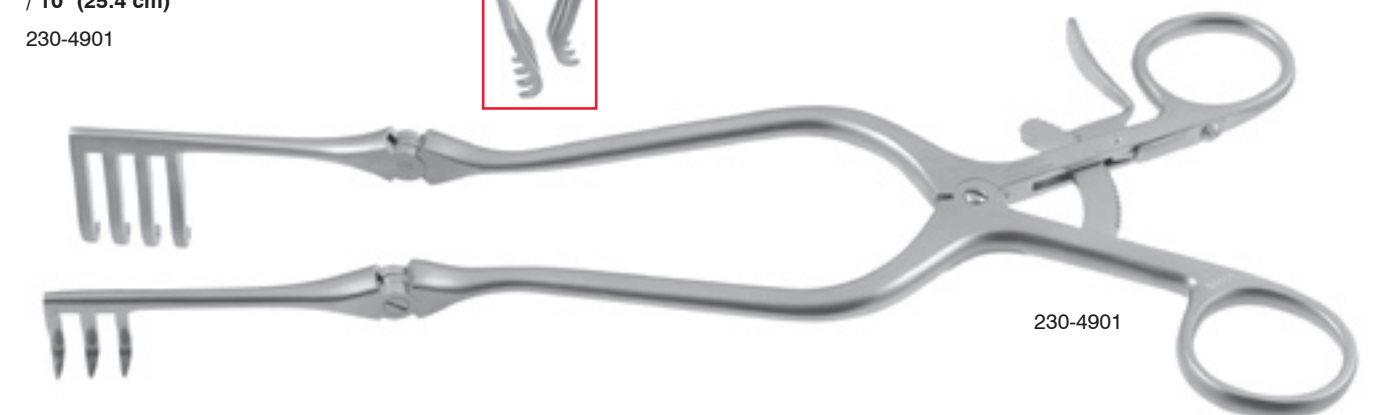


1100-645B

**Beckman Retractor**

3 x 4 prongs / hinged / sharp / 10" (25.4 cm)

230-4901



230-4901

**Mollison Retractor**

2 x 2 sharp 12 mm blades / 5" (13 cm)

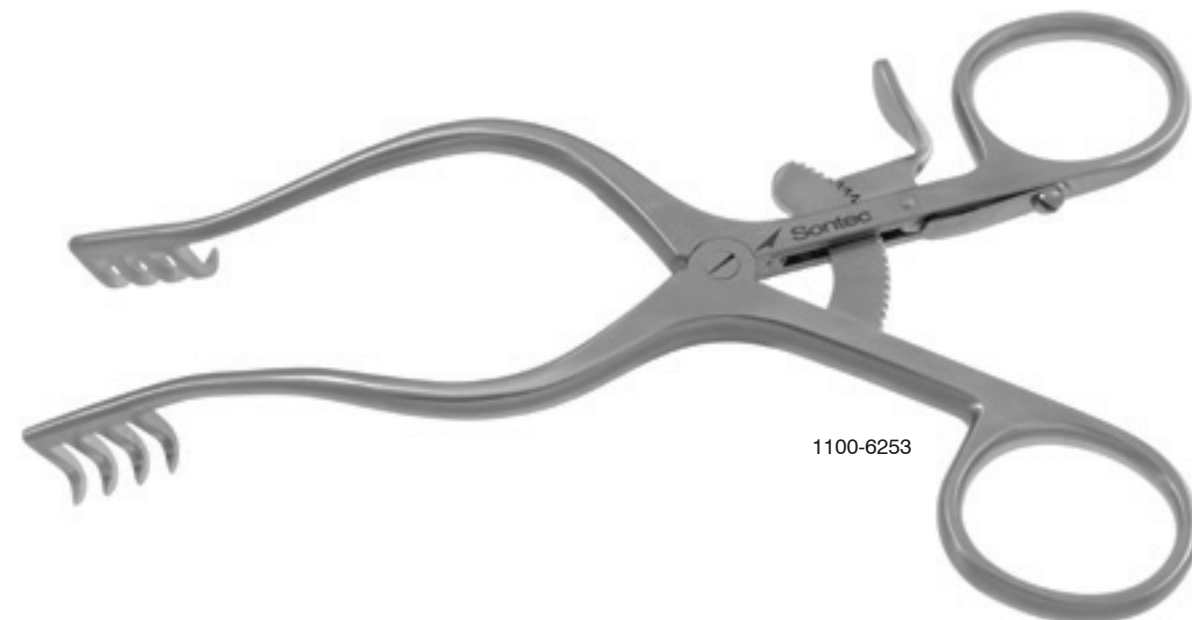
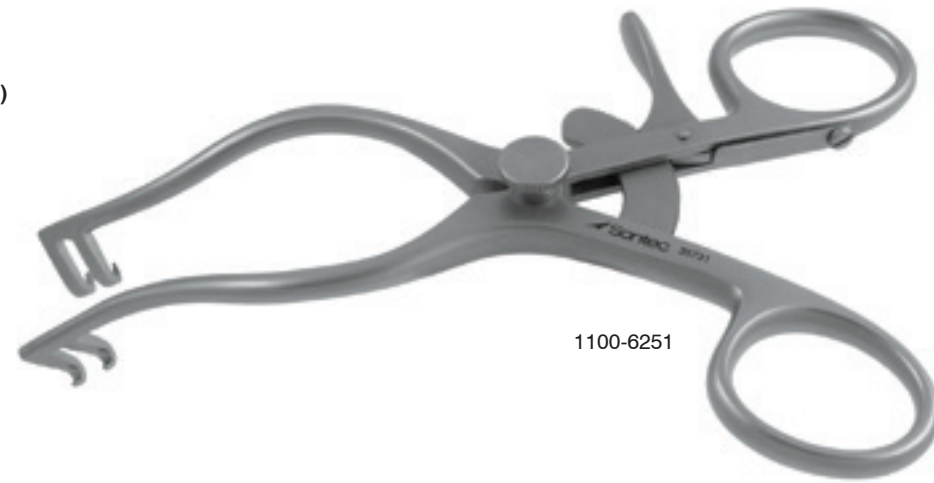
1100-6251

4 x 4 sharp 15 mm blades / 6 3/4" (17 cm)

1100-6252

4 x 4 sharp 13 mm blades / 6" (15 cm)

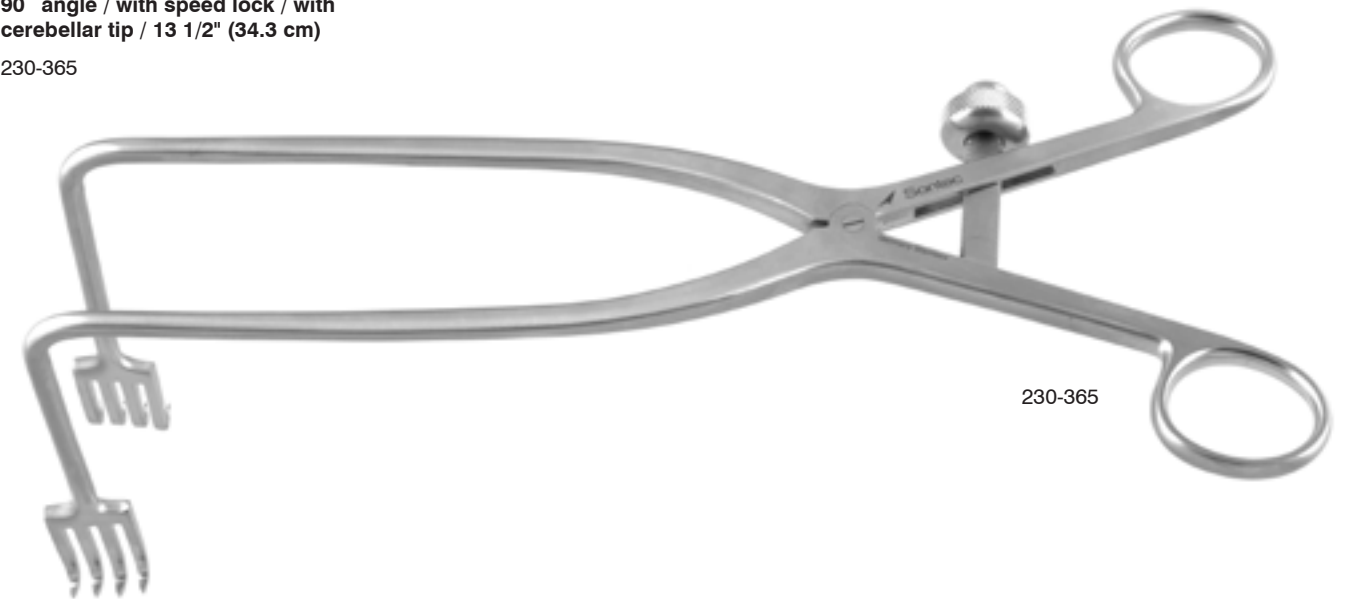
1100-6253



**Gelpi Spinal Retractor**

90° angle / with speed lock / with cerebellar tip / 13 1/2" (34.3 cm)

230-365



**Frazier Lamina Retractor**

1 1/4" deep / 3 x 4 prongs / 4" (10 cm) spread

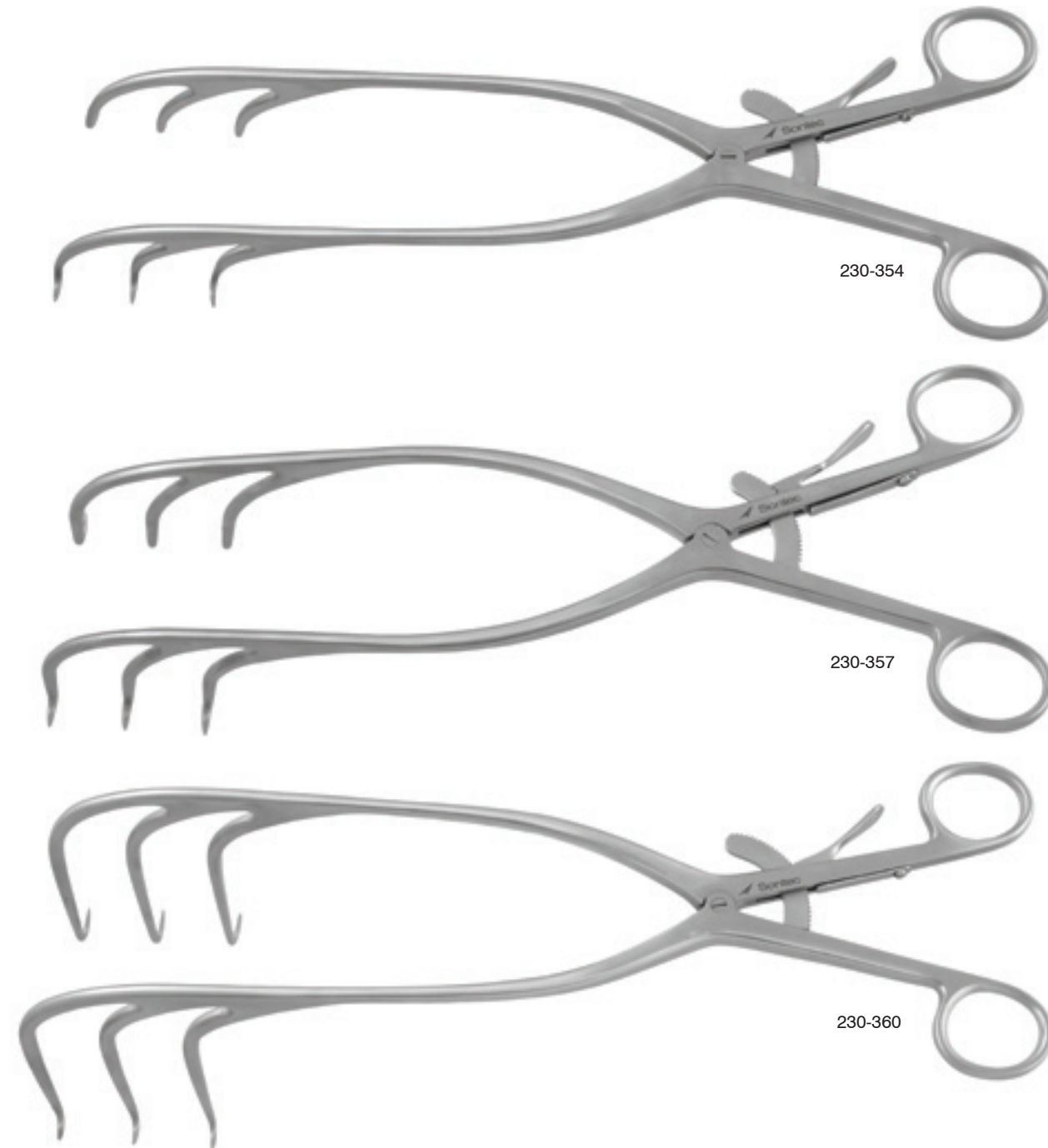
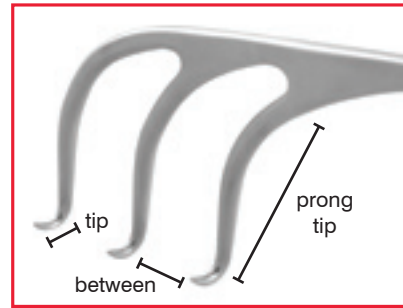
1100-608



**Sontec Multi-Level Gelpi Retractor**

Sharp / 3 x 3 parallel prongs / 25 mm between prongs / 12" (30.5 cm)

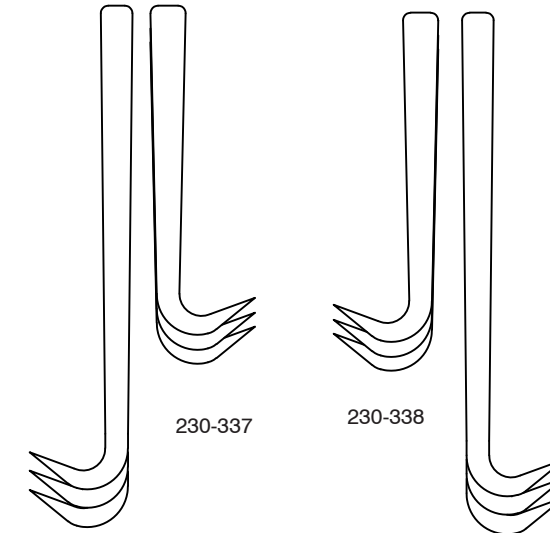
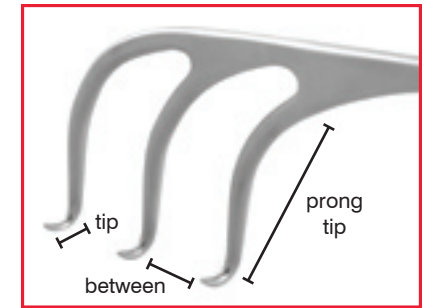
- 230-352 50 mm prong tip
- 230-354 35 mm prong tip
- 230-357 60 mm prong tip
- 230-360 95 mm prong tip



**Sontec Multi-Level Off Set Arms Gelpi Retractor**

Sharp / 3 x 3 prongs / 10.5" (27 cm) / "Shorter design in arms adds more stability with less flex."

- 230-337 right 64 mm & 44 mm prongs 7 mm tip
- 230-338 left 44 mm & 64 mm prongs 7 mm tip



**Beckman-Eaton Retractor**

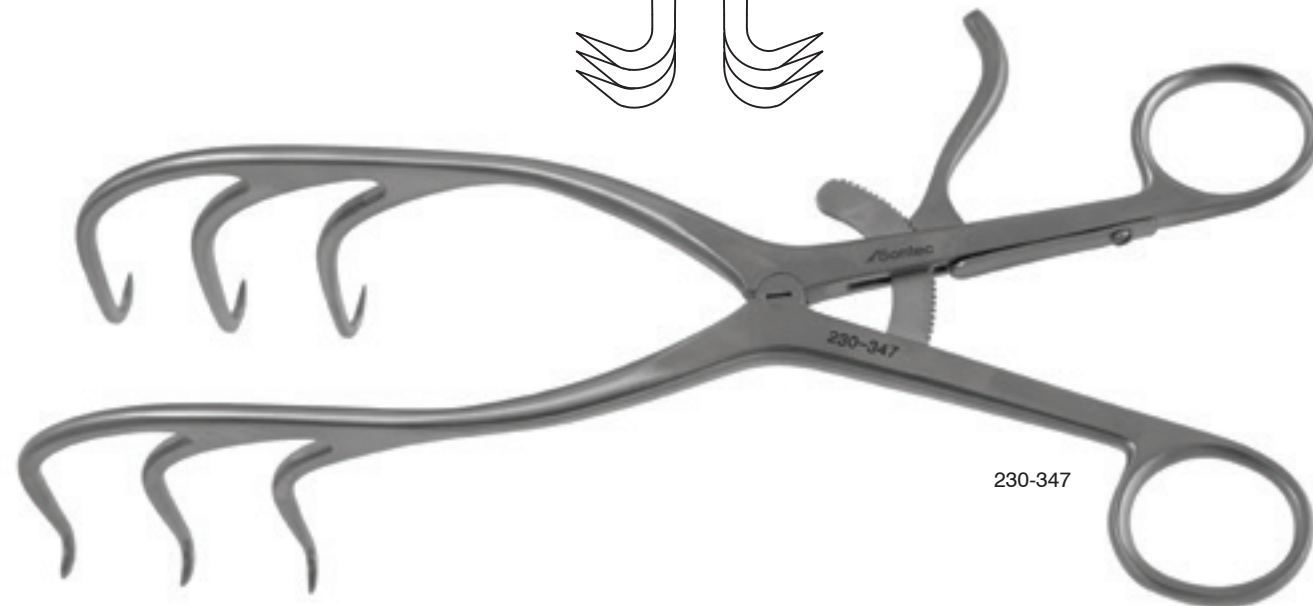
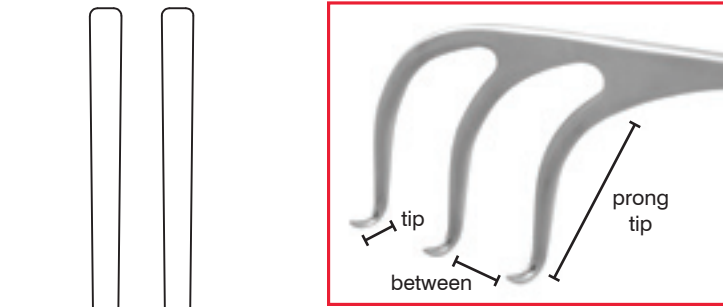
Hinged blades / 7 x 7 prongs / sharp / 12 1/2" (32 cm)

1100-646



**Sontec Multi-Level Gelpi Retractor**

Sharp / 3 x 3 prongs / with off-set arms / 10.5" (27 cm)  
 230-347 60 mm prongs 7 mm tip



230-347

**Miskimon Cerebellum Retractor**

7 x 7 prongs  
 417-045 sharp 7 3/4" (20 cm)



417-045

**Spinal Distractor/Compressor**

11 1/4" (28.6 cm)  
 416-604 distractor  
 416-601 compressor



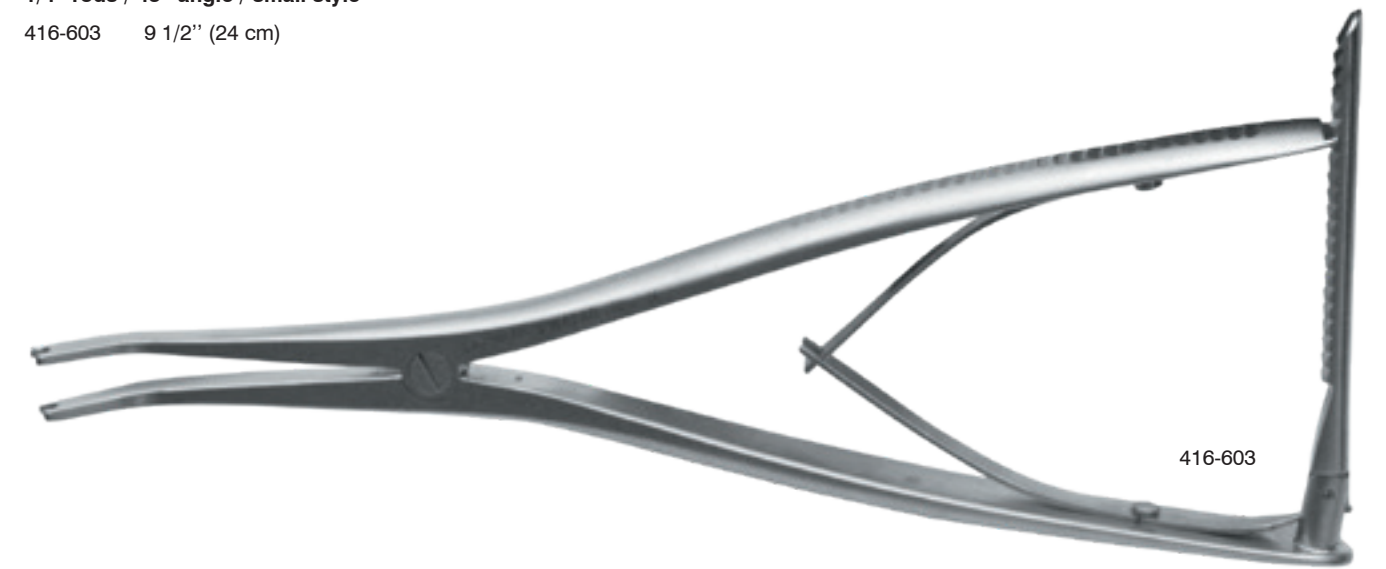
416-601



416-604

**Spinal Distractor**

1/4" rods / 45° angle / small style  
 416-603 9 1/2" (24 cm)



416-603

**Spinal Compressor**

Small style

416-602 10" (25.5 cm)



416-602

**Spinal Distractor**

1/4" rods / 45° angle / large style

416-605 12 1/2" (32 cm)



416-605

**Spinal Compressor**

Large style

416-600 12" (30.5 cm)



416-600

**Double-Action Distractor**

1/4" rods / 30° angle / 15" (38.1 cm)

416-610



416-610

**Double-Action Compressor**

1/4" rods / 30° angle / 15" (38.1 cm)

416-615



416-615

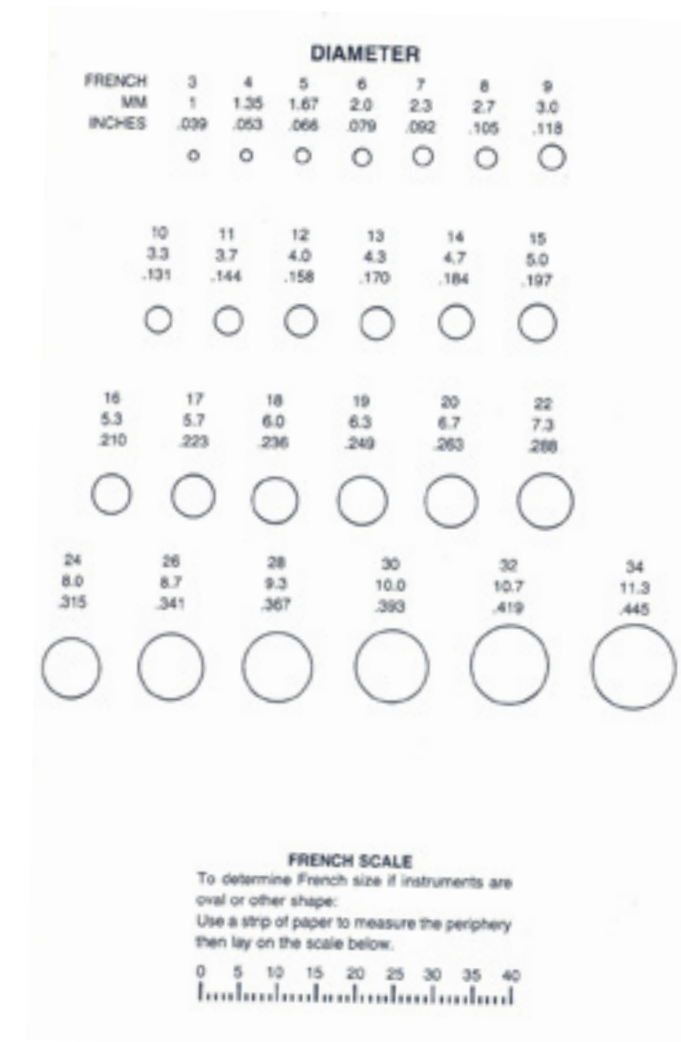


 Sontec Instruments®

SUCTION Selection

**General Suction Information**

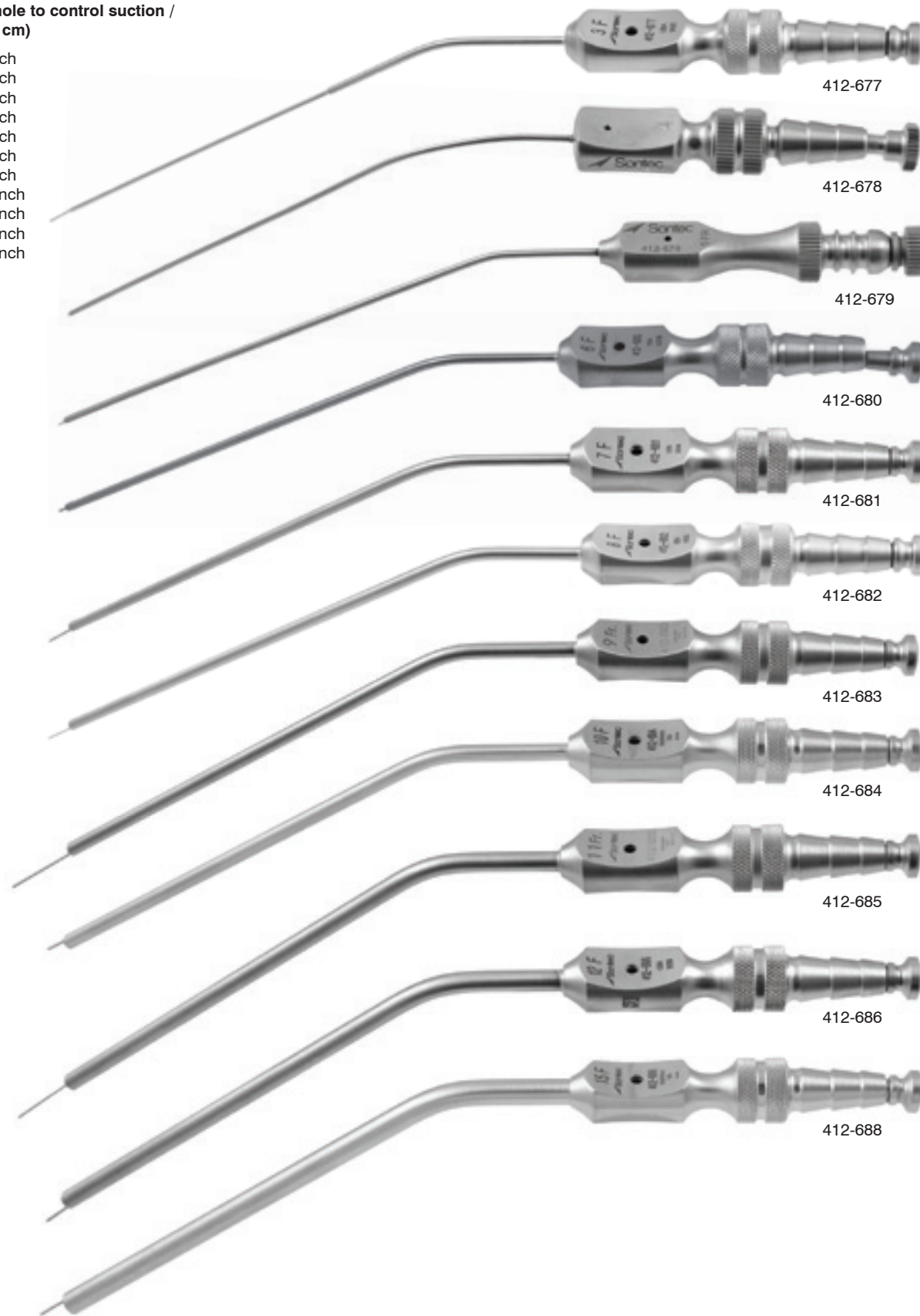
**French measurement scale for determining suction tube diameter**



**Frazier Angled Suction**

Finger cut-off hole to control suction /  
angled / 7" (18 cm)

- 412-677 3 french
- 412-678 4 french
- 412-679 5 french
- 412-680 6 french
- 412-681 7 french
- 412-682 8 french
- 412-683 9 french
- 412-684 10 french
- 412-685 11 french
- 412-686 12 french
- 412-688 15 french



**Frazier Angled Suction**

9" (23 cm)  
412-705 10 french

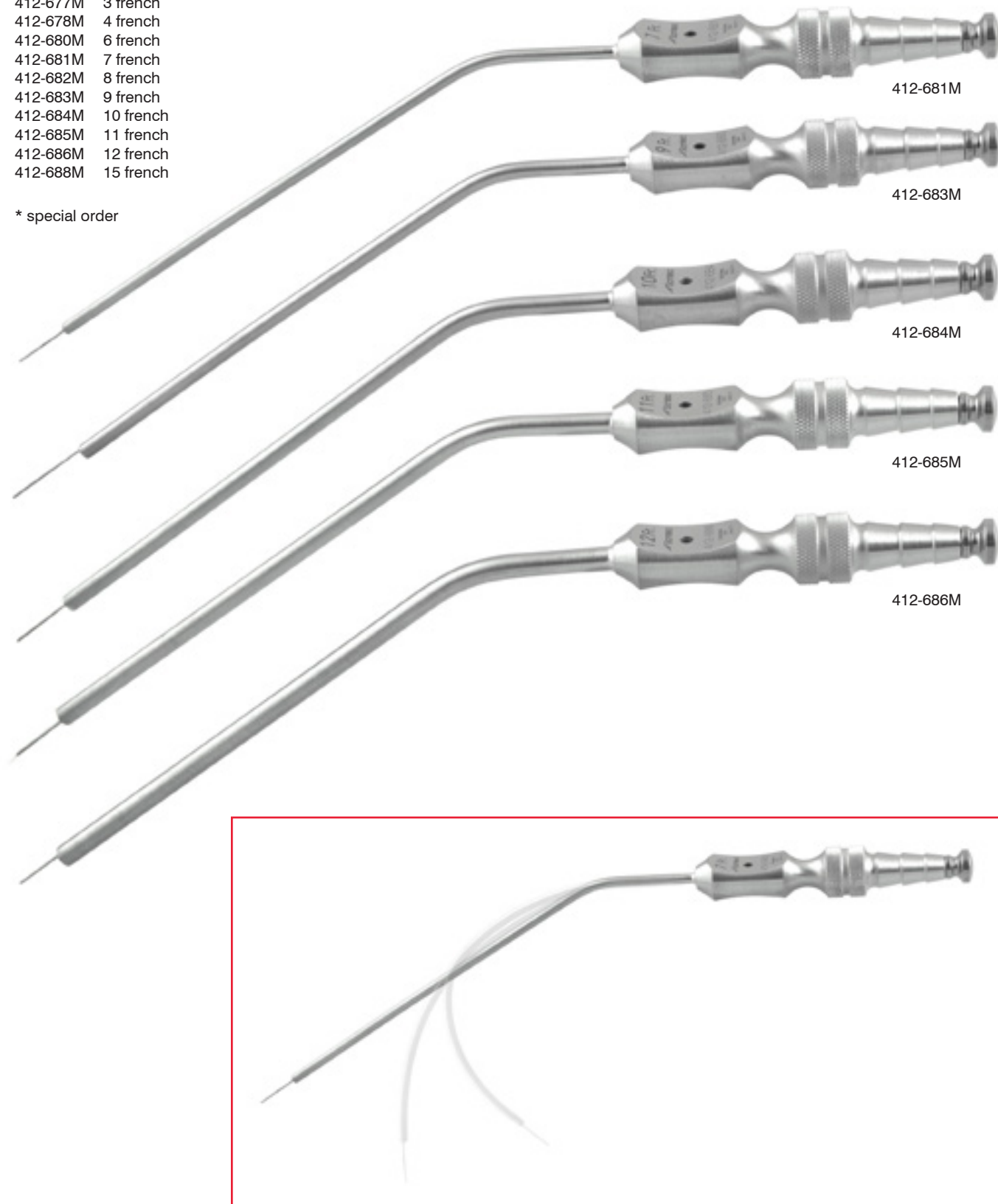


**Frazier Angled Suction**

Finger cut-off hole to control suction / angled / malleable / 7" (18 cm)

- 412-677M 3 french
- 412-678M 4 french
- 412-680M 6 french
- 412-681M 7 french
- 412-682M 8 french
- 412-683M 9 french
- 412-684M 10 french
- 412-685M 11 french
- 412-686M 12 french
- 412-688M 15 french

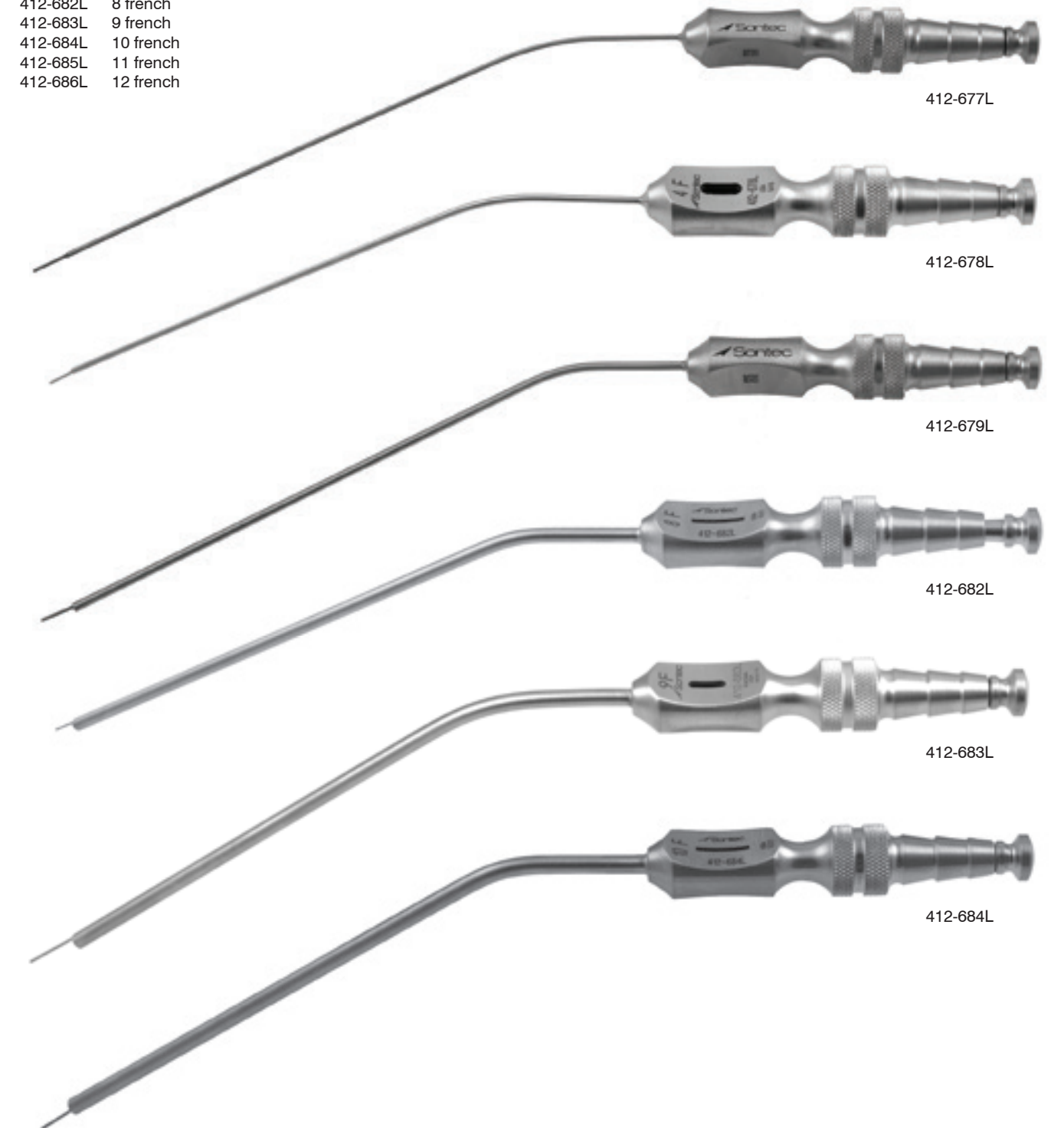
\* special order



**Frazier Angled Suction**

Finger cut-off slot to control suction / angled / 7" (18 cm)

- 412-677L 3 french
- 412-678L 4 french
- 412-679L 5 french
- 412-680L 6 french
- 412-681L 7 french
- 412-682L 8 french
- 412-683L 9 french
- 412-684L 10 french
- 412-685L 11 french
- 412-686L 12 french



**Frazier Straight Suction**

Finger cut-off hole to control suction / straight / 7" (18 cm)

- 412-689 5 french
- 412-690 6 french
- 412-691 7 french
- 412-692 8 french
- 412-694 10 french
- 412-696 12 french

9" (23 cm)

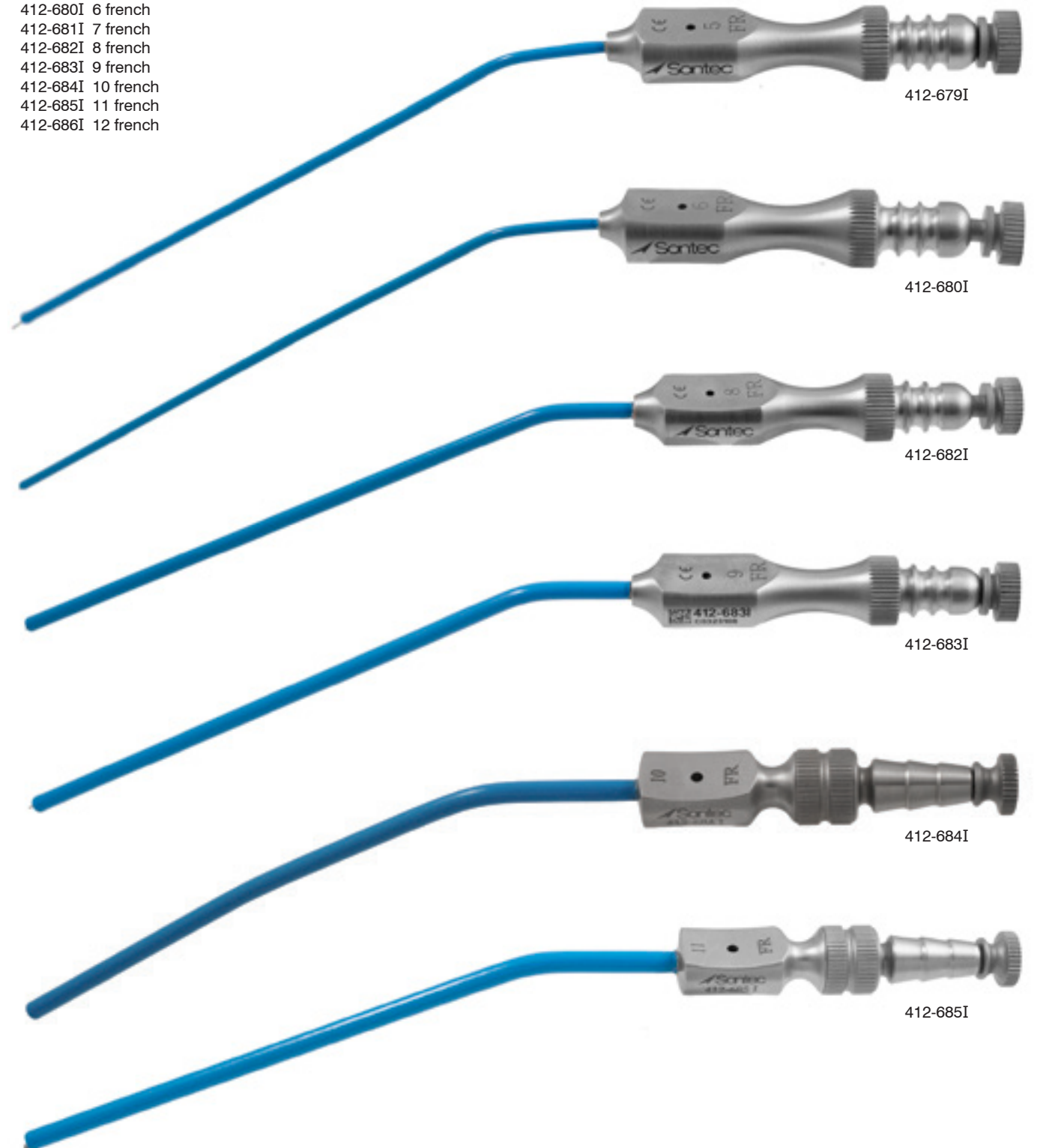
- 412-700 6 french
- 412-701 7 french
- 412-702 8 french
- 412-704 10 french
- 412-706 12 french



**Frazier Insulated Suction**

Finger cut-off hole to control suction / angled / Insulated electro coated tube / 7" (18 cm)

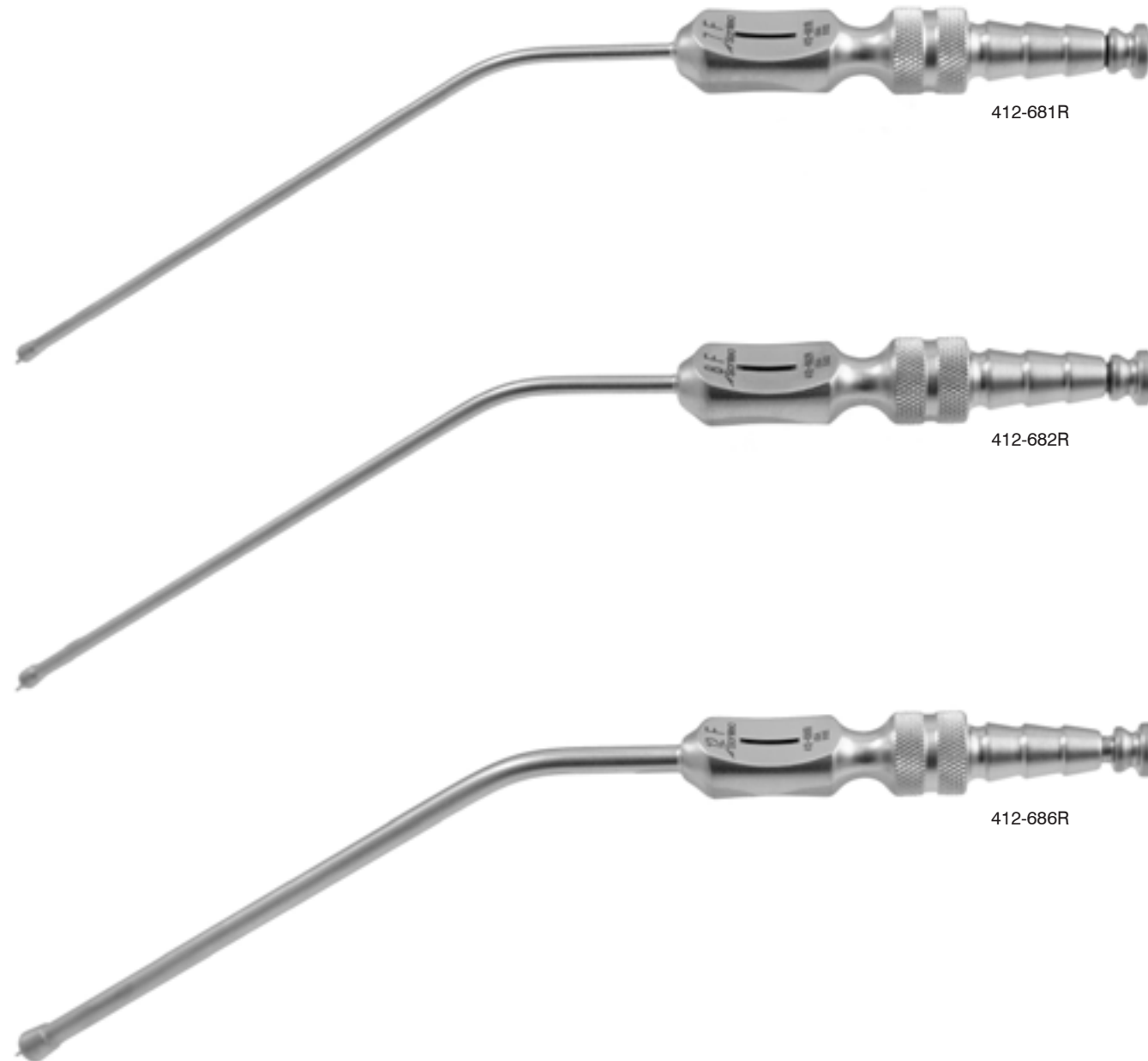
- 412-677I 3 french
- 412-678I 4 french
- 412-679I 5 french
- 412-680I 6 french
- 412-681I 7 french
- 412-682I 8 french
- 412-683I 9 french
- 412-684I 10 french
- 412-685I 11 french
- 412-686I 12 french



**Frazier-Rhoton Angled Suction**

Finger cut-off hole to control suction / angled / with olive tip / 7" (18 cm)

- 412-681R 7 french
- 412-682R 8 french
- 412-686R 12 french



**Rhoton Micro Neuro Suction**

Specially blunted atraumatic tips / 80 mm working length

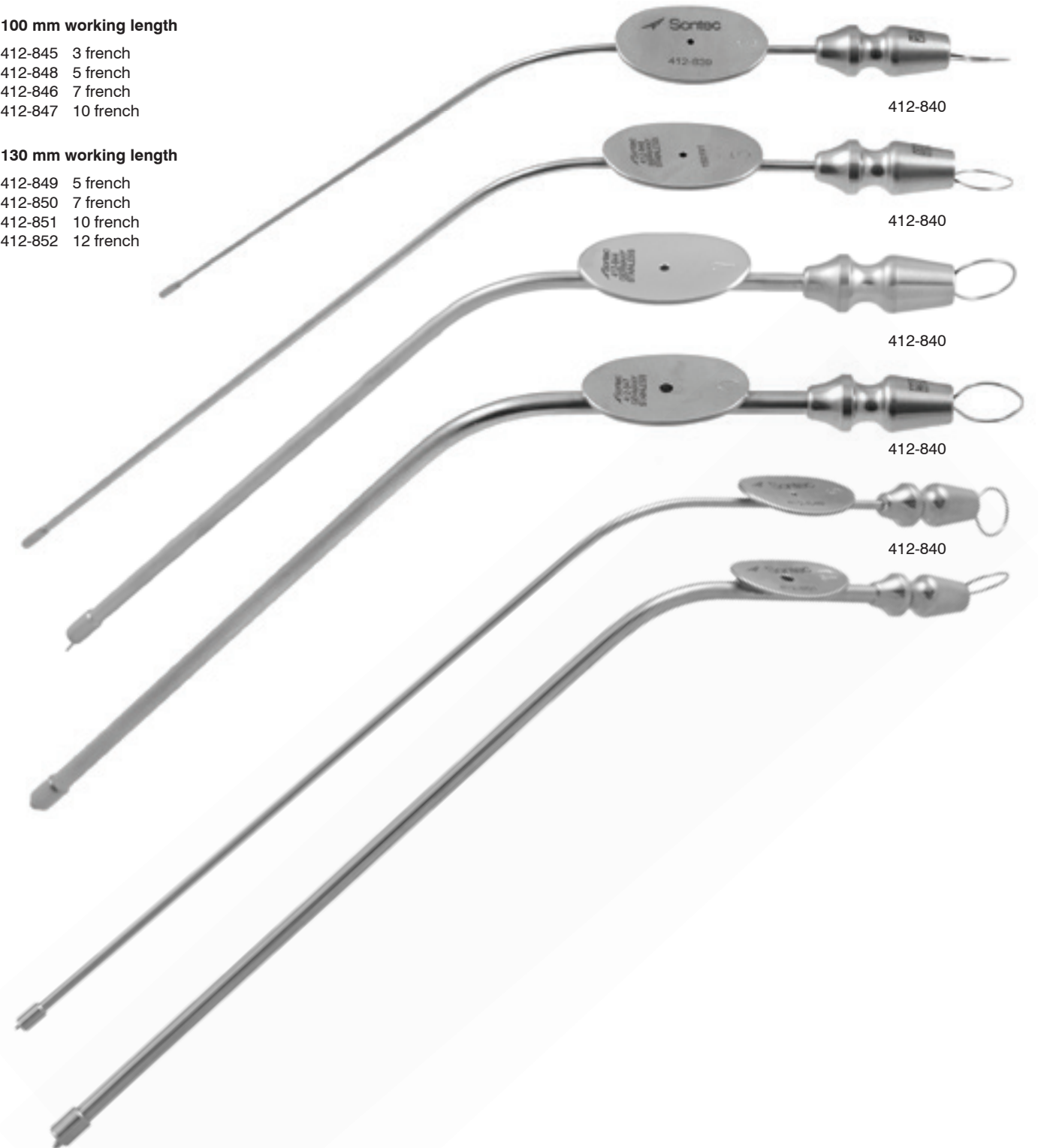
- 412-839 3 french
- 412-840 5 french
- 412-844 7 french
- 412-841 10 french

**100 mm working length**

- 412-845 3 french
- 412-848 5 french
- 412-846 7 french
- 412-847 10 french

**130 mm working length**

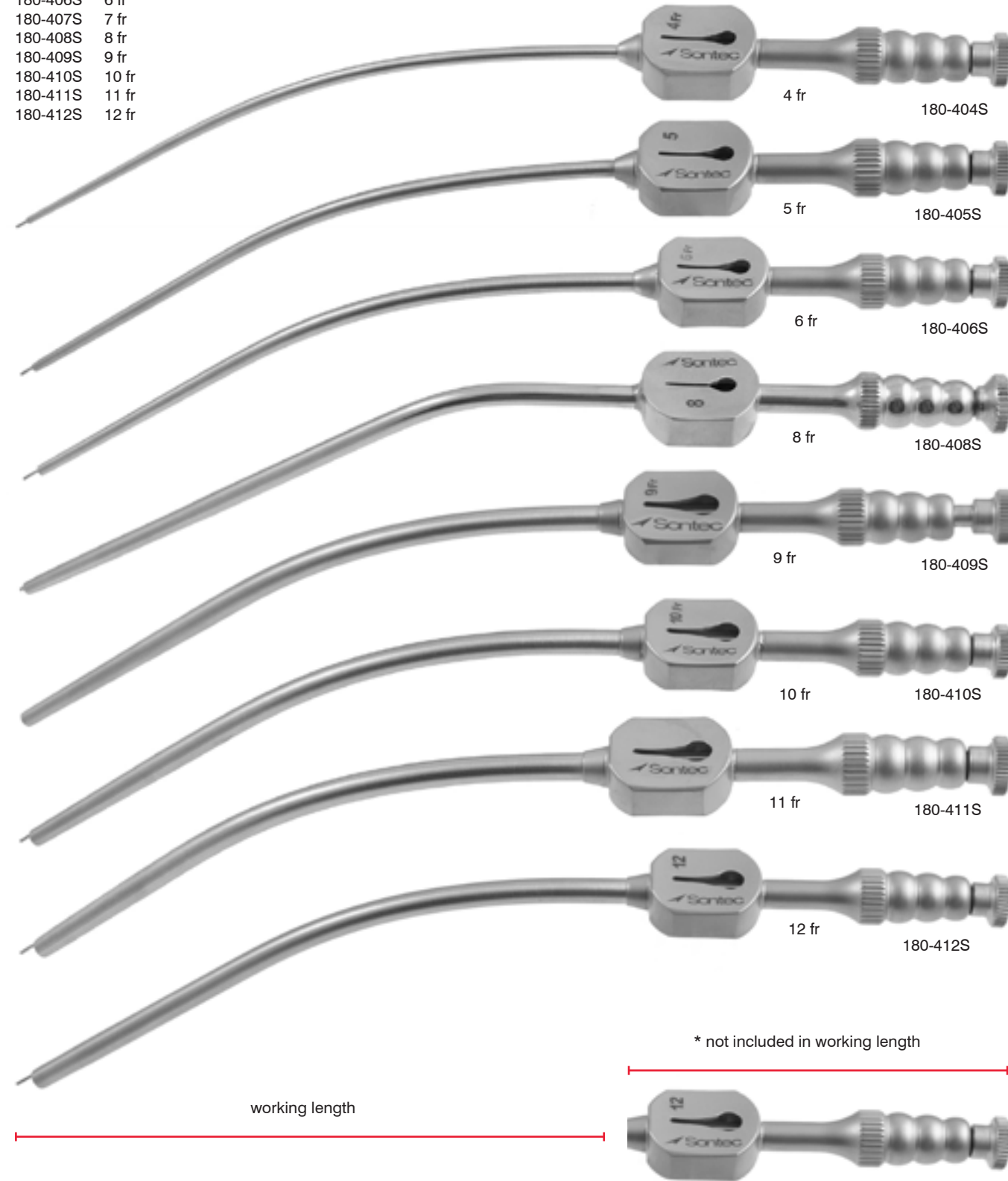
- 412-849 5 french
- 412-850 7 french
- 412-851 10 french
- 412-852 12 french



**Fukushima Suction**

Tapered tube shaft / teardrop finger control / 5" (12.7 cm) working length

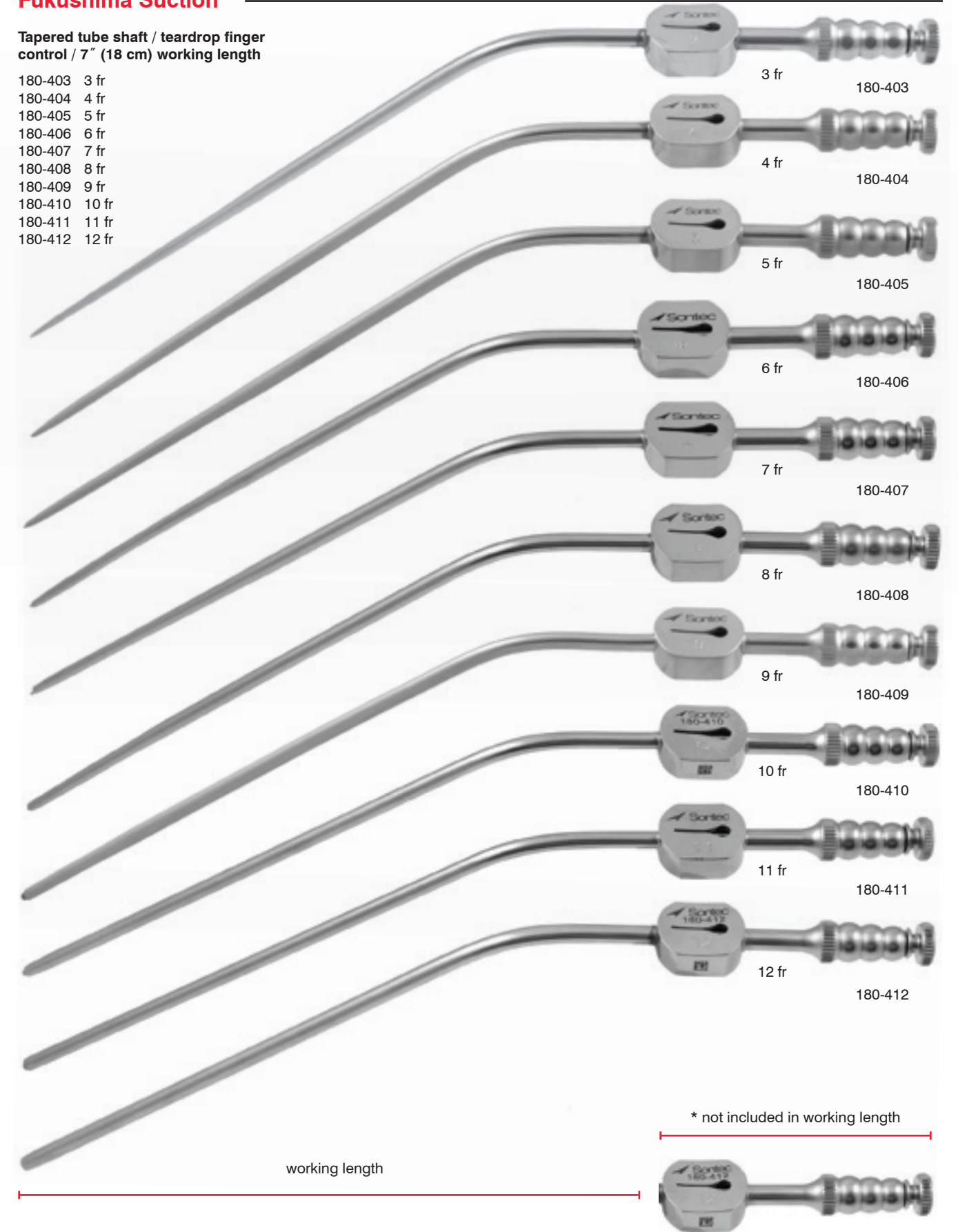
- 180-404S 4 fr
- 180-405S 5 fr
- 180-406S 6 fr
- 180-407S 7 fr
- 180-408S 8 fr
- 180-409S 9 fr
- 180-410S 10 fr
- 180-411S 11 fr
- 180-412S 12 fr



**Fukushima Suction**

Tapered tube shaft / teardrop finger control / 7" (18 cm) working length

- 180-403 3 fr
- 180-404 4 fr
- 180-405 5 fr
- 180-406 6 fr
- 180-407 7 fr
- 180-408 8 fr
- 180-409 9 fr
- 180-410 10 fr
- 180-411 11 fr
- 180-412 12 fr



**Sontec Neuro Suction**

tapered tubing for increased flow / short shaft / 3 hole finger control / 2 3/4" (7 cm)

- 412-853 1.2mm tip
- 412-854 2mm tip
- 412-855 2.5mm tip

Medium shaft / 3 hole finger control / 4" (10 cm)

- 412-856 1.2mm tip
- 412-857 2mm tip
- 412-858 2.5mm tip

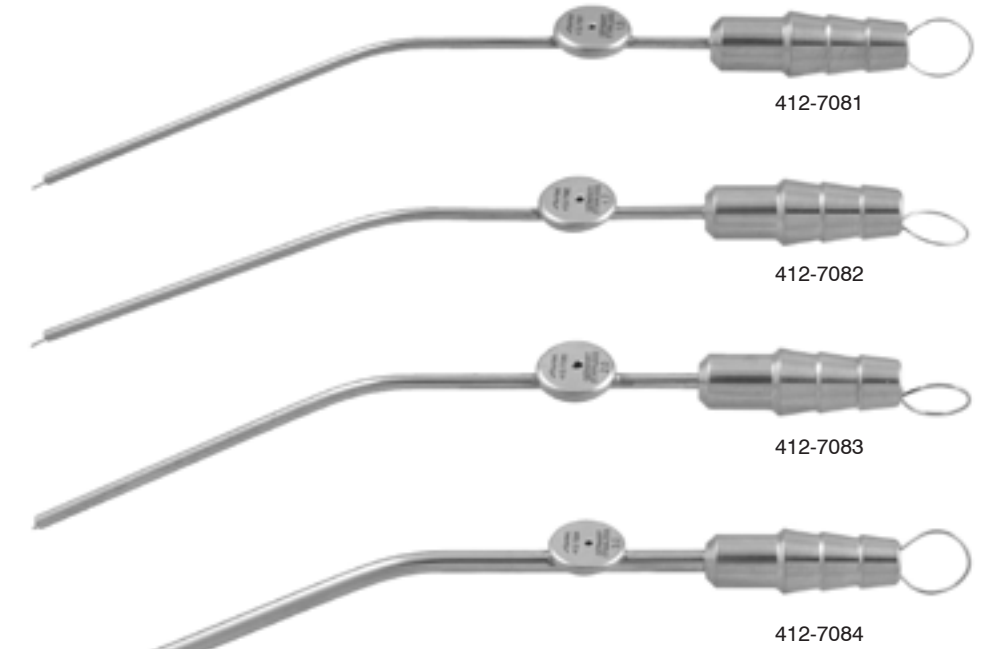
Long shaft / 3 hole finger control / 5 1/2" (14 cm)

- 412-859 1.2mm tip
- 412-860 2mm tip
- 412-861 2.5mm tip



**Barnes Mini Suction Tube**

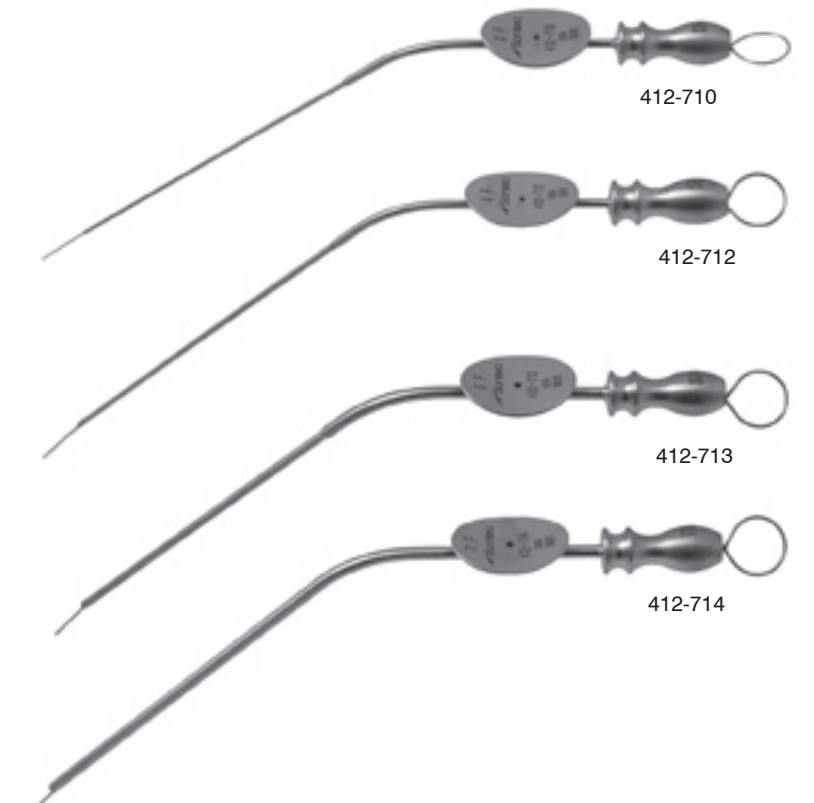
- 412-7081 1.5 mm tip
- 412-7082 1.7 mm tip
- 412-7083 2 mm tip
- 412-7084 3 mm tip



**Baron Suction**

Finger cut-off hole to control suction / angled / 4" (10 cm)

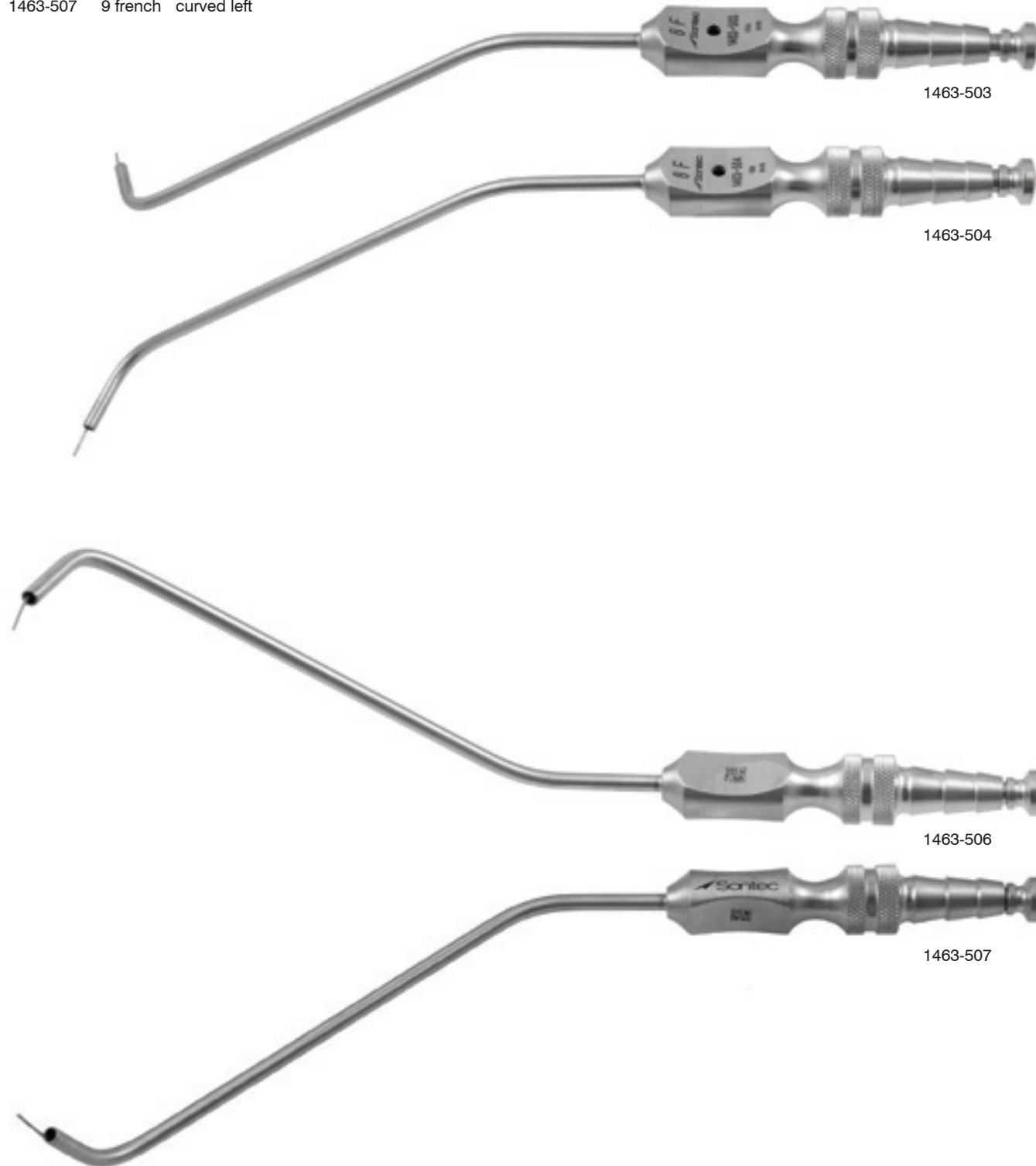
- 412-710 3 french
- 412-712 4 french
- 412-713 5 french
- 412-714 7 french



**Pashley-Frazier Suction**

**Curved tip / 7" (18 cm)**

- 1463-501 7 french curved right
- 1463-500 7 french curved left
- 1463-503 8 french curved right
- 1463-504 8 french curved left
- 1463-506 9 french curved right
- 1463-507 9 french curved left



**Modified Ferguson-Frazier Suction**

**Fenestrated oval tip**

- 412-685F 11 french angled
- 412-686H 12 french angled with hook lip



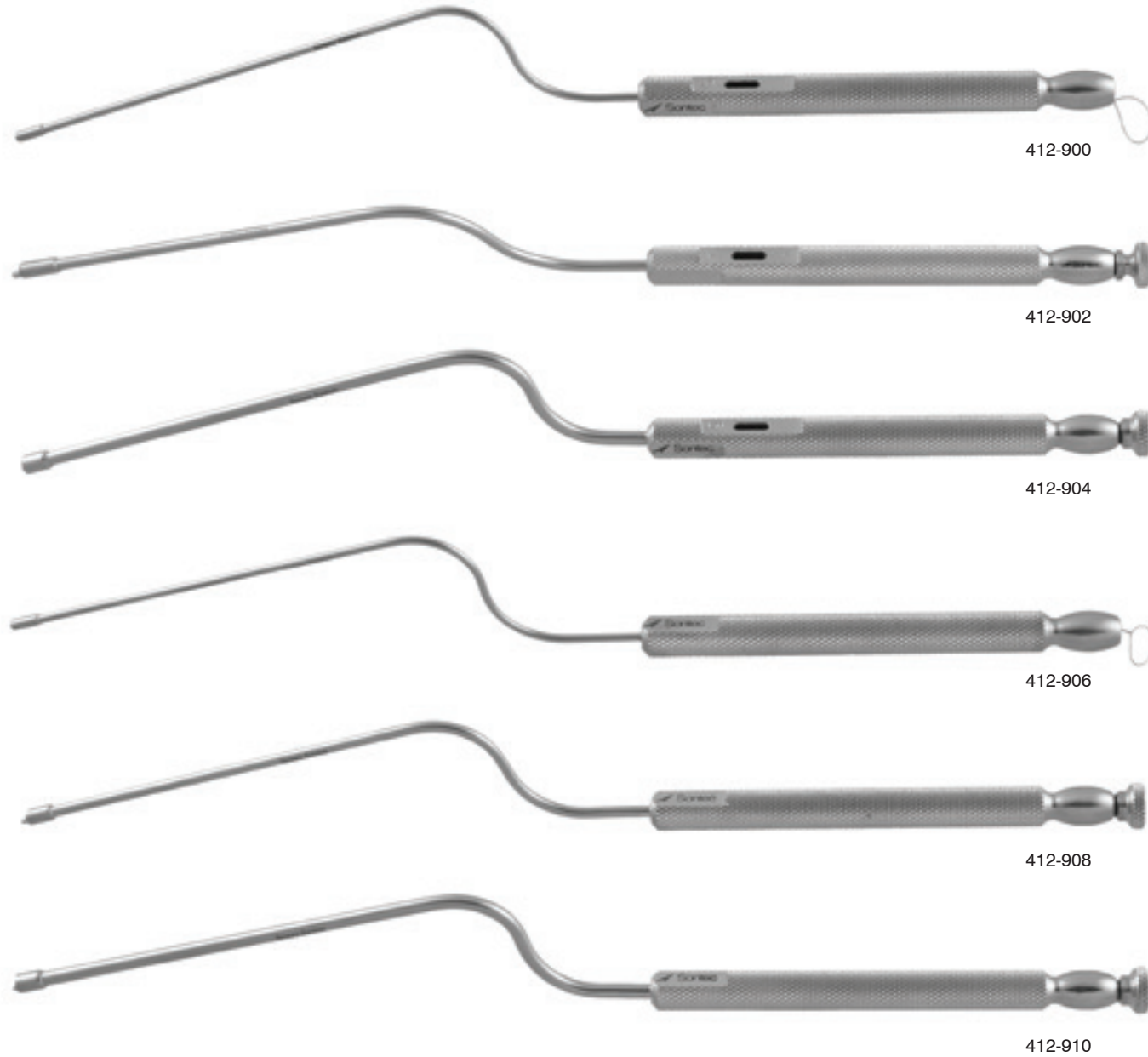
**Bayonet Suction Tube**

**Top finger control / 3 3/8" working length**

- 412-900 5 french
- 412-902 7 french
- 412-904 9 french

**Right finger control / 3 3/8" working length**

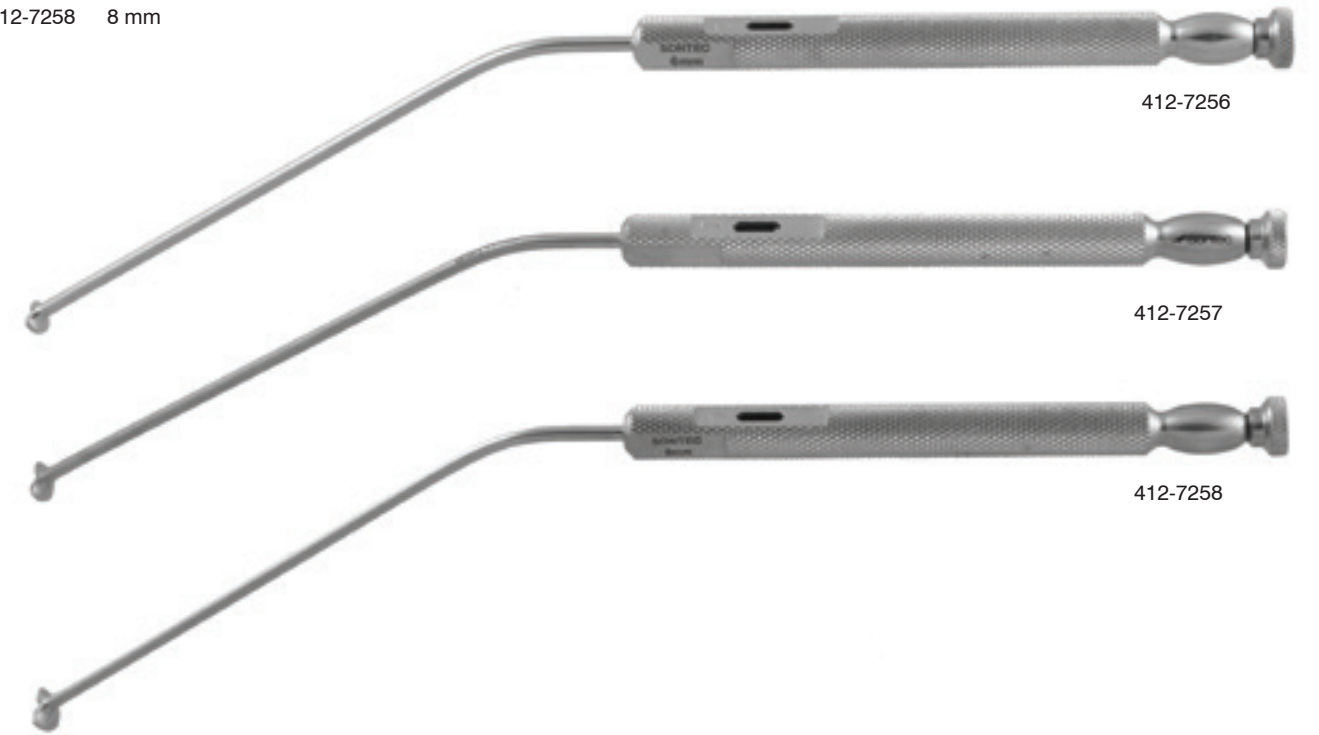
- 412-906 5 french
- 412-908 7 french
- 412-910 9 french



**Suction Nerve Retractor**

**7 french / 8" (20.3 cm)**

- 412-7256 6 mm
- 412-7257 7 mm
- 412-7258 8 mm



**Papavero Cannula Suction**

**Angled / 7" (18 cm)**

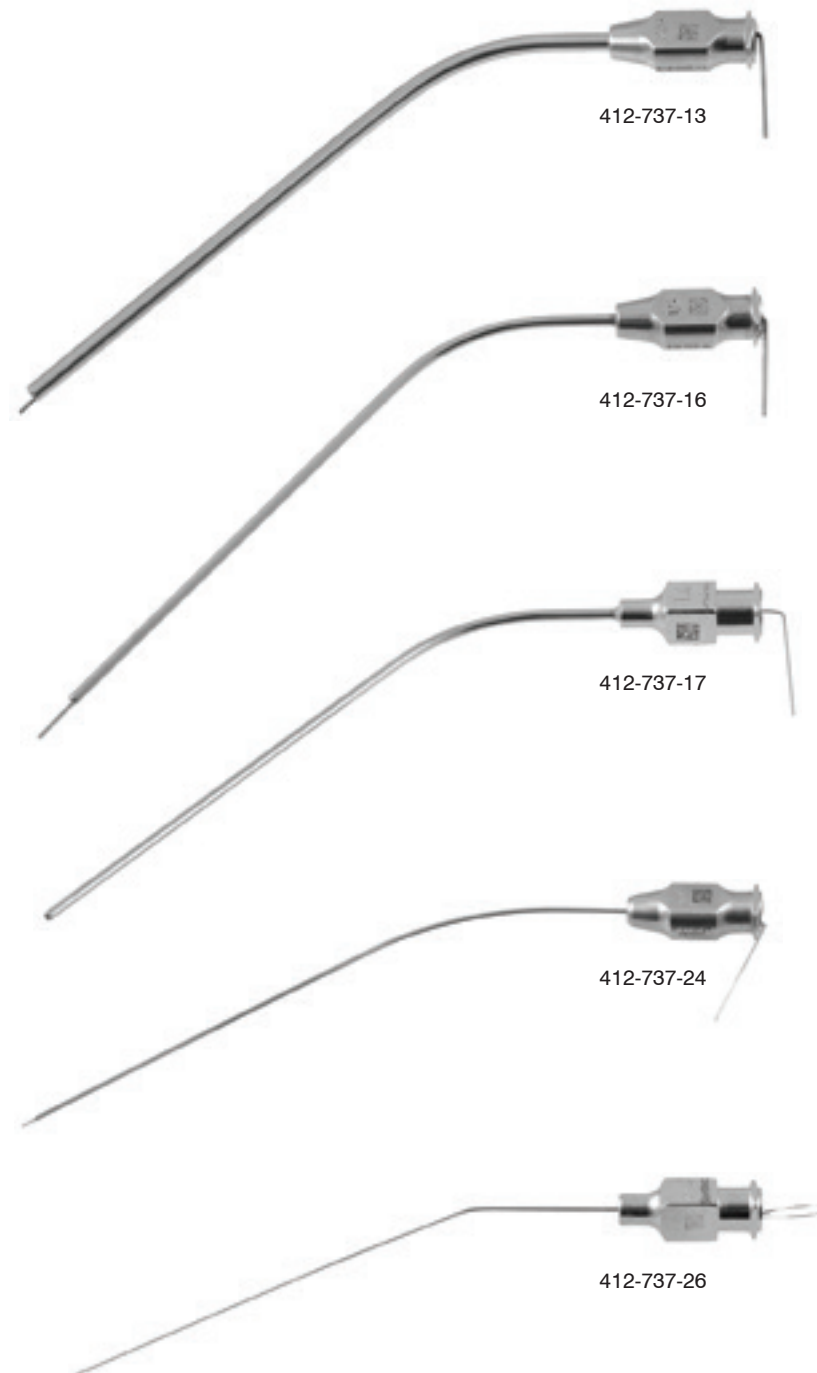
- 412-671 8 french



**Rosen Suction Tips**

Luer LK Angle / overall length 100mm / 65 mm working length

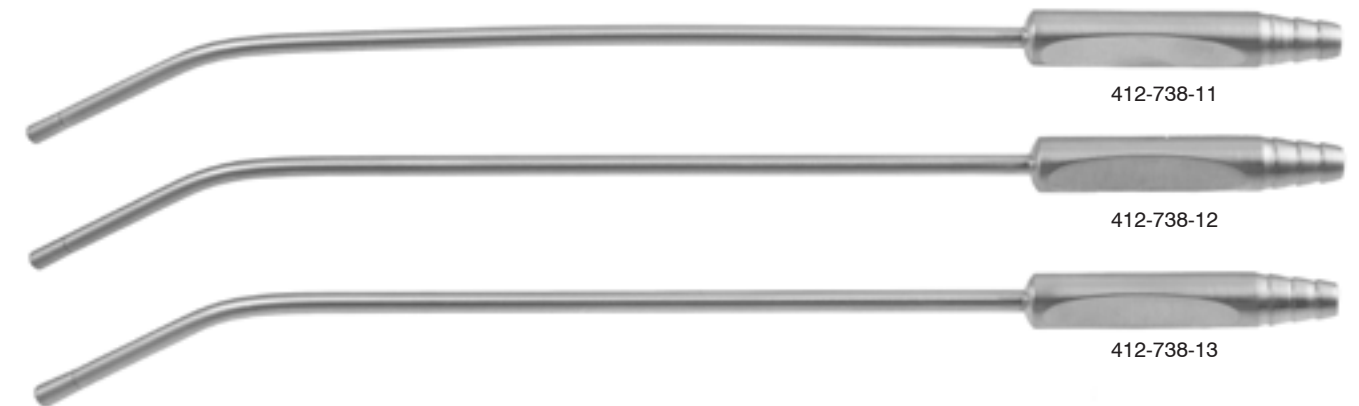
- 412-737-11 11 gauge
- 412-737-13 13 gauge
- 412-737-14 14 gauge
- 412-737-15 15 gauge
- 412-737-16 16 gauge
- 412-737-17 17 gauge
- 412-737-18 18 gauge
- 412-737-19 19 gauge
- 412-737-20 20 gauge
- 412-737-21 21 gauge
- 412-737-22 22 gauge
- 412-737-24 24 gauge
- 412-737-25 25 gauge
- 412-737-26 26 gauge



**Wullstein Ear Suction Tube**

7" working length / 9 1/4" overall length

- 412-738-11 11 FR O.D. x 8 FR I.D.
- 412-738-12 12 FR O.D. x 9 FR I.D.
- 412-738-13 13 FR O.D. x 10 FR I.D.



**House Cutoff Suction Adapter**

2" (5 cm)

412-738-50

Universal handles are necessary for Rosen and Schmidt Suction tubes



412-738-50

**Kurtz Cutt-Off Suction Adapter**

2.2" (5.5 cm)

- 412-738-55 chrome plated
- 412-738-55S stainless steel

Universal handles are necessary for Rosen and Schmidt Suction tubes



412-738-55



412-738-55S

**Wullstein Suction Handle**

4 1/4" (11 cm)

412-738 male luer coupling 3mm

Universal handles are necessary for Rosen and Schmidt Suction tubes

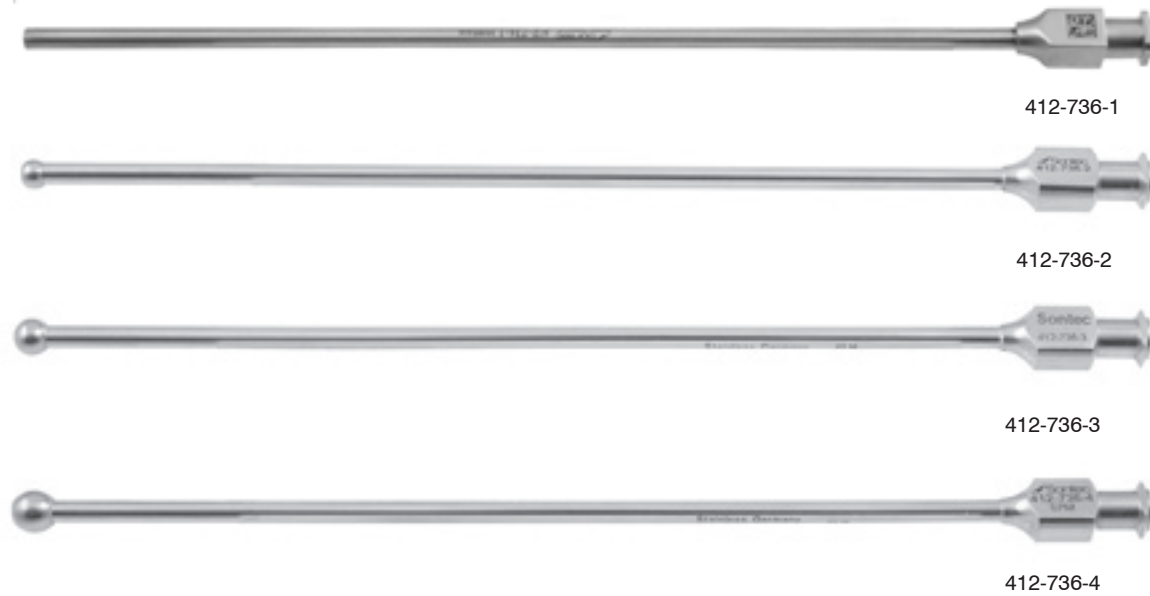


412-738

**Schmid Suction Tips**

6" (15 cm)

- 412-736-1
- 412-736-2
- 412-736-3
- 412-736-4



**Suction Irrigation Tube**

5 mm / with stylet / 8" (20 cm)

- 412-830 4 french x 8 french



**House-Baron Suction**

With multi port / 5" (12.5 cm)

- 412-728 5 french
- 412-728B 7 french

7" (18 cm)

- 412-729 5 french
- 412-729B 7 french

11" (28 cm)

- 412-727A 5 french
- 412-727B 7 french



**House Irrigator/Suction**

With thumb plate and cutoff (bypass hole) / 70mm working length / 4 1/2" (11.5 cm)

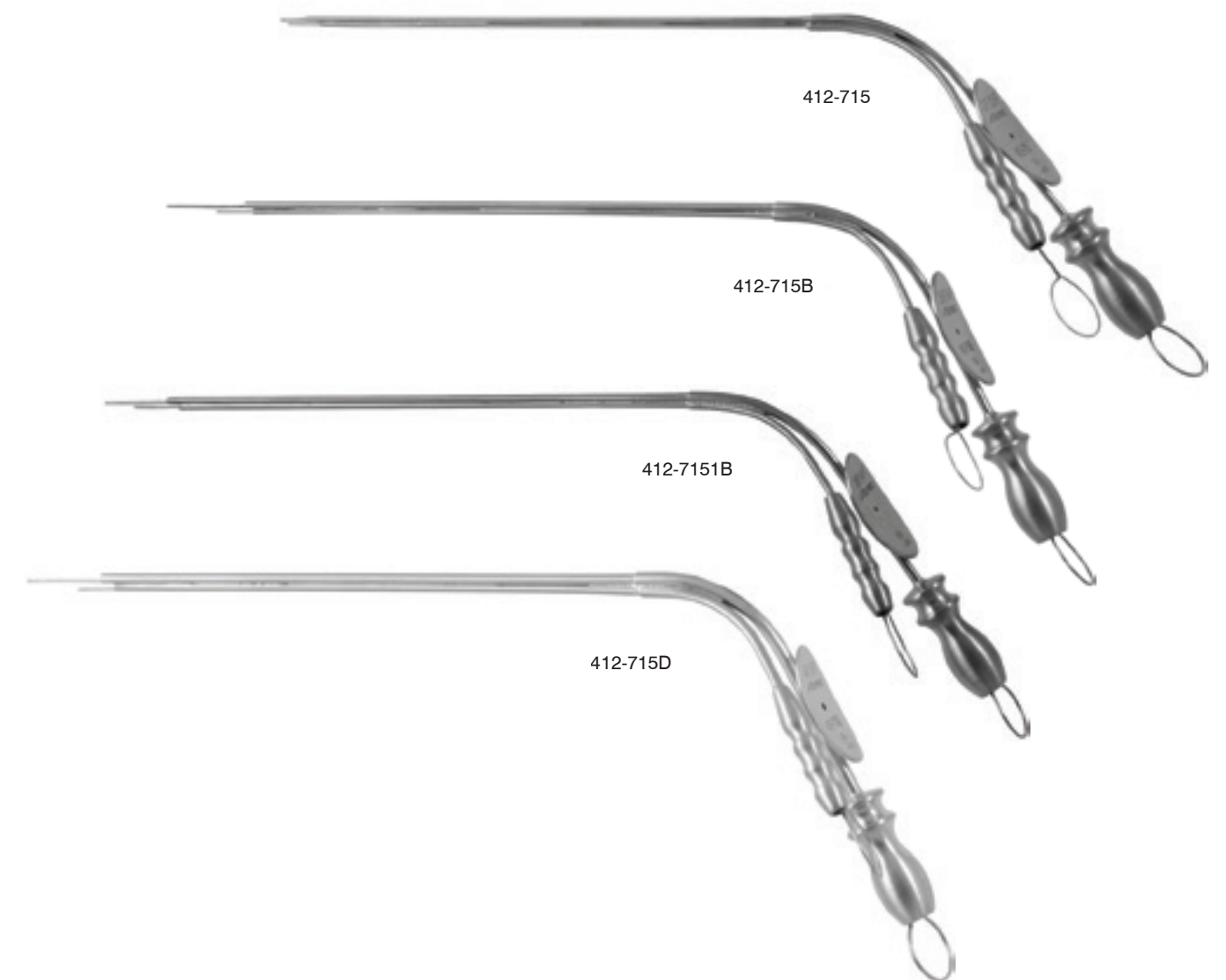
- 412-715A 2.5 french x 4 french
- 412-715C 4 french x 5 french

85mm working length / 5" (13 cm)

- 412-715 2 french x 2.5 french

95mm working length / 5 1/2" (14cm)

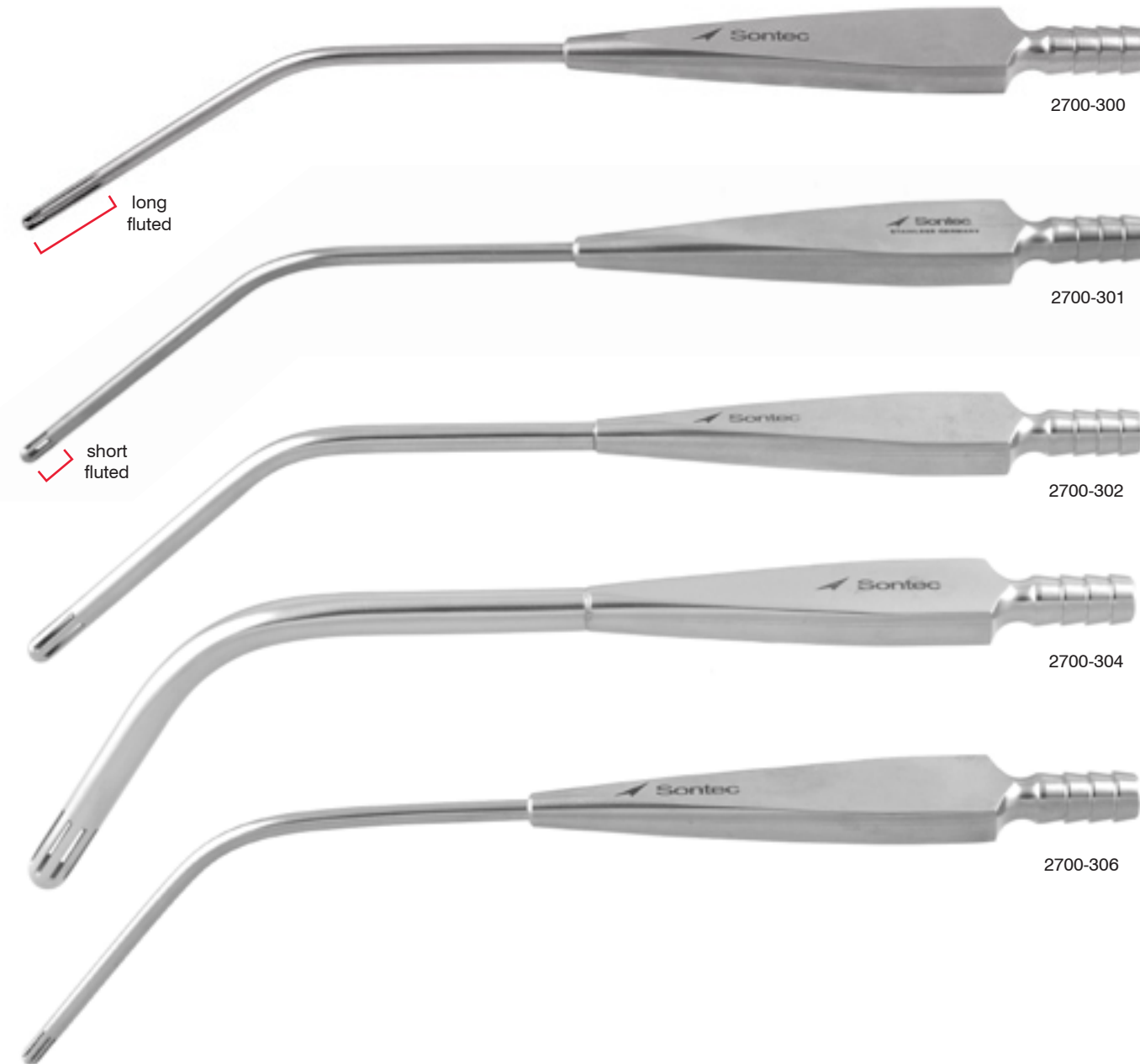
- 412-715B 2.5 french x 4 french
- 412-7151B 3 french x 4 french
- 412-715D 4 french x 5 french
- 412-716 5 french x 7 french
- 412-716A 6 french x 8 french
- 412-717 7 french x 10 french
- 412-718 8 french x 12 french
- 412-719 12 french x 14 french



**Sontec Micro Pediatric Suction**

**For pediatric Use**

2700-300	40°	3.25 mm	long fluted tip	4 1/4"
2700-301	45°	3.25 mm	fluted tip	4 3/4"
2700-302	40°	5 mm	fluted tip	4 3/4"
2700-304	55°	7 mm	fluted tip	4 3/4"
2700-306	50°	3.25 mm	fluted tip	4 1/4"



**Sontec Micro Pediatric Suction**

**For pediatric use / removable fluted tip**

2700-301R	45°	3.25 mm tip	4 3/4"
2700-303R	45°	3.25 mm tip	3 1/4"



**Sontec Micro Pediatric Suction**

For pediatric use / removable fenestrated tip

- 2700-307R 45° 5 mm tip 3 3/4"
- 2700-308 55° 3.5 mm tip 3 3/4"
- 2700-308R 45° 3.5 mm tip 3 1/2"



2700-307R



2700-308R



2700-308

**Andrews Pynchon Suction**

Stainless / 9 1/2" (24 cm)

- 180-432 3.0 mm
- 180-433 4.2 mm
- 180-436 5.0 mm standard

Chrome handle / standard 5 mm / 9 1/2" (24 cm)

180-439



180-432

**Anthony Suction**

4 mm tip / 10" (25.5 cm)

180-440



180-440

**Braun-Ralph Suction**

5mm suction tube / 70° angle with 7 mm Ø 40 mm long fluted tip / 10" (25.5 cm)

2700-309



2700-309

**Yankauer Suction**

Stainless Steel / 11 3/4" (30 cm)

180-448



With universal fiber optic light guide / stainless steel / 11 1/4" (28.5 cm)

180-449 2mm



Stainless steel / 16" (41 cm)

180-451 2mm



**Heartline Ross Sump Sucker**

Swivel head

- 2700-390 adult 4.8mm x 7.5mm O.D. x 43mm length
- 2700-392 child 4.8mm x 6.5mm O.D. x 32.5mm length
- 2700-394 infant 3.2mm x 5mm O.D. x 22.5mm length



**Heartline Ross Ventricular Vent**

Swivel head

- 2700-395 adult 4.8mm x 7.5mm O.D. x 51mm length
- 2700-396 child 4.8mm x 6mm O.D. x 37.5mm length
- 2700-397 infant 3.2mm x 5mm O.D. x 24mm length



**Poole Suction**

8 3/4" (22 cm)

- 180-424 cvd 23 french
- 180-422 str 30 french



**Baby Poole Suction**

Curved / 17 french / 8" (20.3 cm)  
180-420



180-420

**Poole Suction Deluxe**

With cut off valve / 30 french / 10 1/4" (26.04 cm)  
180-427



180-427

**Buie Suction Tube**

With finger valve / 16" (40.5 cm)  
508-523 15 french



508-523

**Adson Suction**

Curved tip  
412-720 12 french 5" (12.5 cm)  
412-724 12 french 8" (20 cm)



412-720

**Killian (Von Eicken) Suction**

Curved / 6" (15 cm)  
412-815 4 mm end short curve  
412-810 4 mm end full long curve  
412-805 3 mm end short curve  
412-800 3 mm end long curve



412-805



412-800



412-815

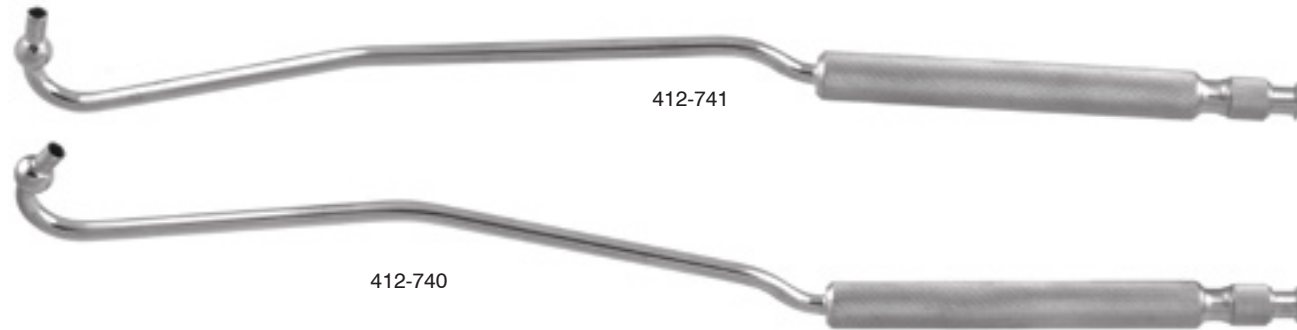


412-810

**Sontec Perfusion Cannula Suction**

For pediatric Use

- 412-740 style #1
- 412-741 style #2



**Coupland Suction Set**

6 1/2" (16.5 cm)

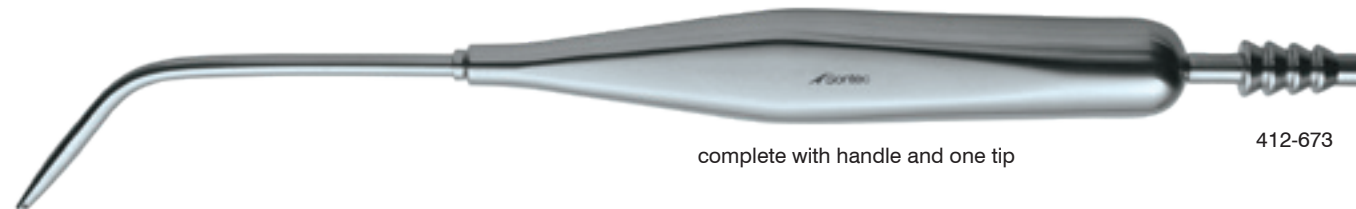
412-672-SET  
set includes:

- 412-673 tip #1 1.5 mm wide
- 412-674 tip #2 2.0 mm wide
- 412-675 tip #3 2.5 mm wide
- 412-676 tip #4 3.5 mm wide
- 412-672H handle



handle only

412-672H



complete with handle and one tip

412-673



412-676



412-675



412-674



412-673

**Pashley Pipe Suction Tube Holding Device**

1463-461



1463-461



 Sontec Instruments®

Orthopedic BONE HOLDING CLAMPS

**Verbrugge Bone Clamp**

**Curved to side / with speedlock**

- 1103-070 6" (15.5 cm)
- 1103-074 7 1/2" (19 cm)
- 1103-075 8 1/4" (21 cm)
- 1103-075D 8 1/4" (21 cm) delicate
- 1103-076 9 1/2" (24 cm)
- 1103-080 10" (25.5 cm)

**Swivel jaw / curved to side/with speedlock**

- 1103-071 5 3/4" (15 cm)
- 1103-073 8" (20.5 cm)
- 1103-077 9" (23 cm)
- 1103-078 10 1/4" (26 cm)
- 1103-079 11 1/4" (29 cm)



1103-076



1103-071

**Verbrugge Bone Clamp**

**Ring handle / with ratchet**

- 1103-068 7" (18 cm)



1103-068

**Verbrugge Bone Clamp**

Reverse jaw / curved to side / with speedlock

1103-071J	5 3/4" (15 cm)
1103-073J	8" (20.5 cm)
1103-077J	9" (23 cm)
1103-078J	10 1/4" (26 cm)
1103-079J	11 1/4" (29 cm)

Reverse speed lock and jaw / curved to side

1103-071L	5 3/4" (15 cm)
1103-073L	8" (20.5 cm)
1103-077L	9" (23 cm)
1103-078L	10 1/4" (26 cm)
1103-079L	11 1/4" (29 cm)



1103-071J



1103-071L

**Ulrich Bone Clamp**

With speedlock / straight

305-367S*	7 1/8" (18.25 cm)
305-368	9" (23 cm)
305-369	10 1/2" (27 cm)

Curved to side

305-365	5 1/4" (13.5 cm)
305-365M*	5 1/2" (14 cm)
305-366	6 1/2" (16.5 cm)
305-367*	7 1/8" (18.25 cm)
305-368A	9" (23 cm)
305-369A	10 1/2" (27 cm)

\* micro jaws



305-365M



305-367



305-367S

**Verbrugge-Rogalski Bone Clamp**

With speedlock / 1.5 mm jaw / 4" (10 cm)

1103-069



1103-069

**Kern Hybrid Bone Clamp**

With speedlock / fenestrated head / 4 3/4" (12 cm)

305-344A



305-344A

**Kern Bone Clamp**

Fenestrated jaw / with ratchet

- 305-332 4 3/4" (12 cm)
- 305-334 5 1/2" (14 cm)
- 305-328 6 1/4" (15.9 cm)
- 305-338 7" (18 cm)
- 305-336 8 1/2" (21.5 cm)



Fenestrated jaw  
Side view

With ratchet

- 305-347 13" (33 cm)



305-332

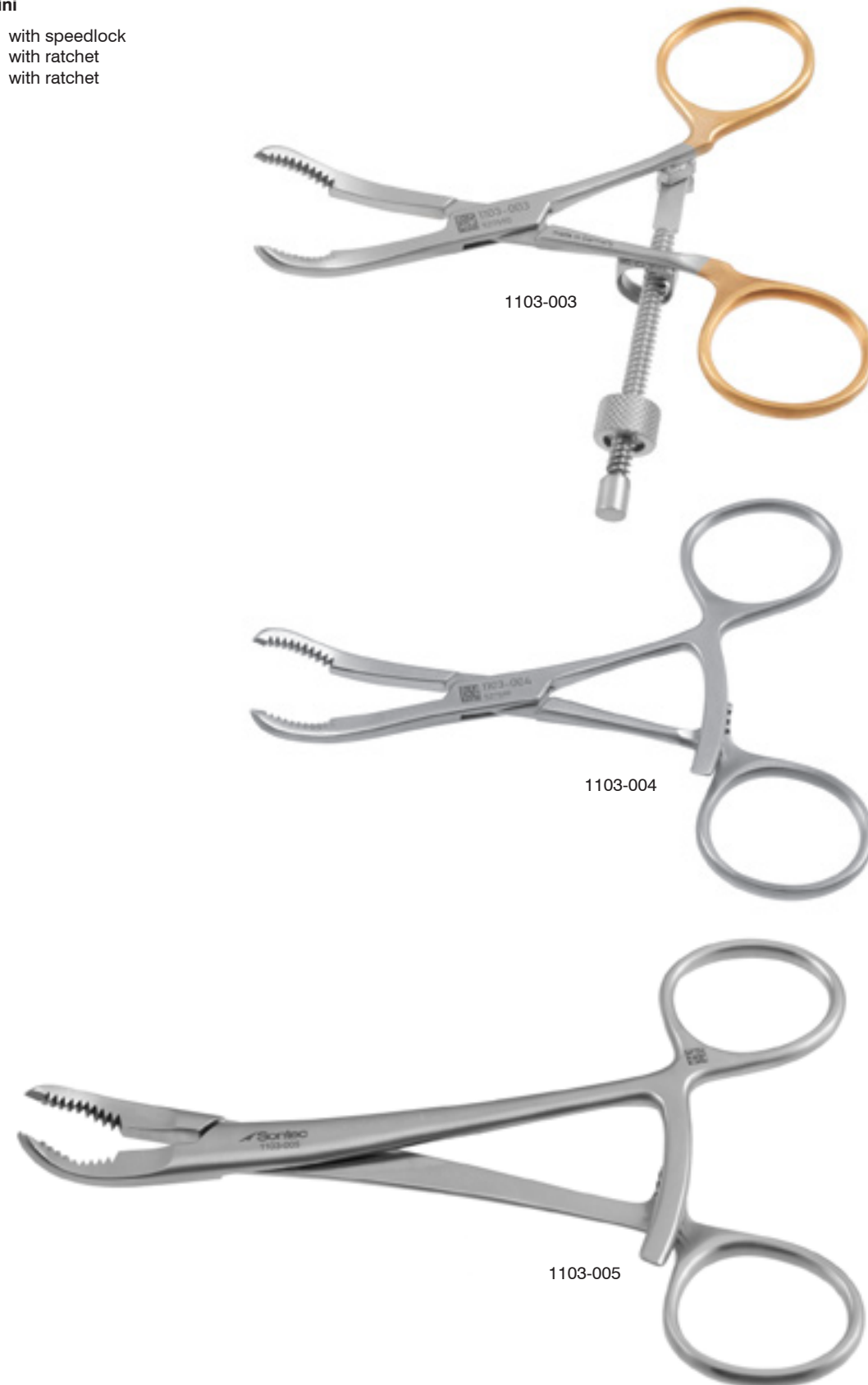


305-347

**Stefan Mini Bone Holding Forceps**

Curved / 4 mm opening / mini

- 1103-003 4" (10 cm) with speedlock
- 1103-004 4" (10 cm) with ratchet
- 1103-005 5 1/2" (14 cm) with ratchet



**Stefan Bone Holding Forceps**

Curved / with speed lock

- 1103-006 5 1/2" (14 cm)
- 1103-008 6" (15.5 cm)
- 1103-010 7" (18 cm)
- 1103-011 9 1/2" (24 cm)



**Sequestrum Sontec Bone Forceps**

Serrated jaws / 8" (20.3 cm)

- 1103-013 straight
- 1103-014 curved



**Angus Bone Holding Forceps**

6" (15.5 cm)

- 1103-015 with ratchet
- 1103-017 with speedlock



**Taylor-Dingmann Bone Clamp**

angled / 7 1/2" (19 cm)

- 1100-451 with speedlock
- 1100-452 with ratchet



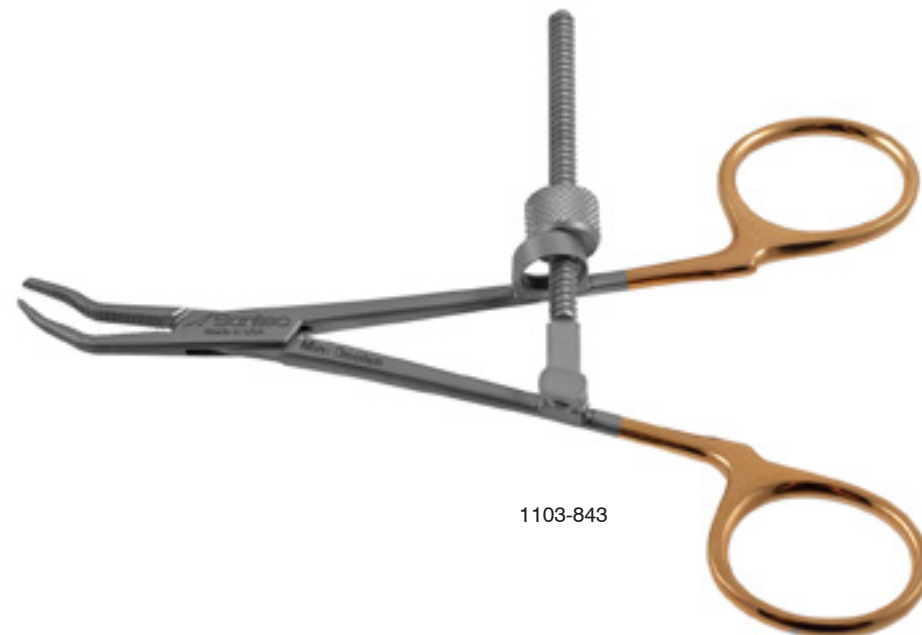
**Babcock Bone Holding Clamp**

Angled / with ratchet / 7 3/4" (19.7 cm)  
1103-065



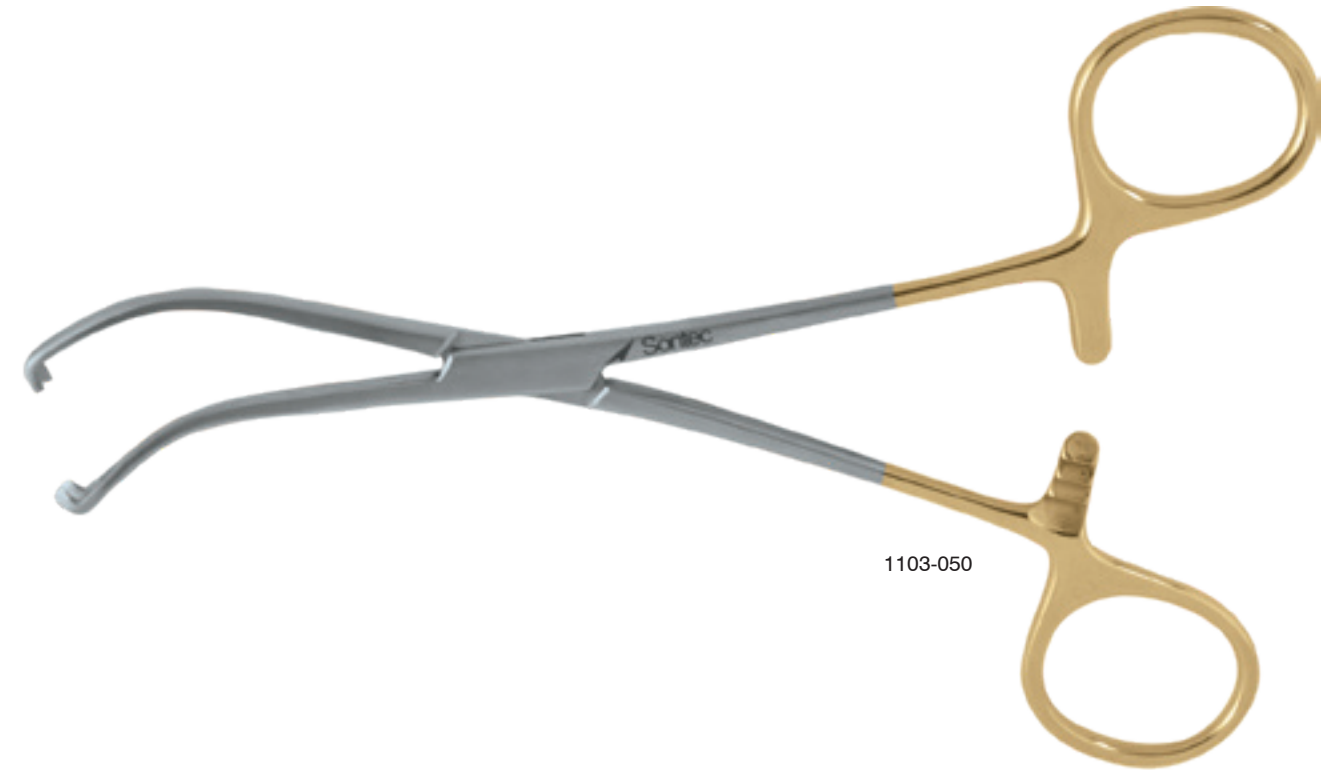
**Mini Doolen Bone Holding Clamp**

1.5 mm wide jaw / angled / 5" (12.7 cm)  
1103-843 with speedlock  
1103-844 with ratchet



**Sesamoidectomy Bone Clamp**

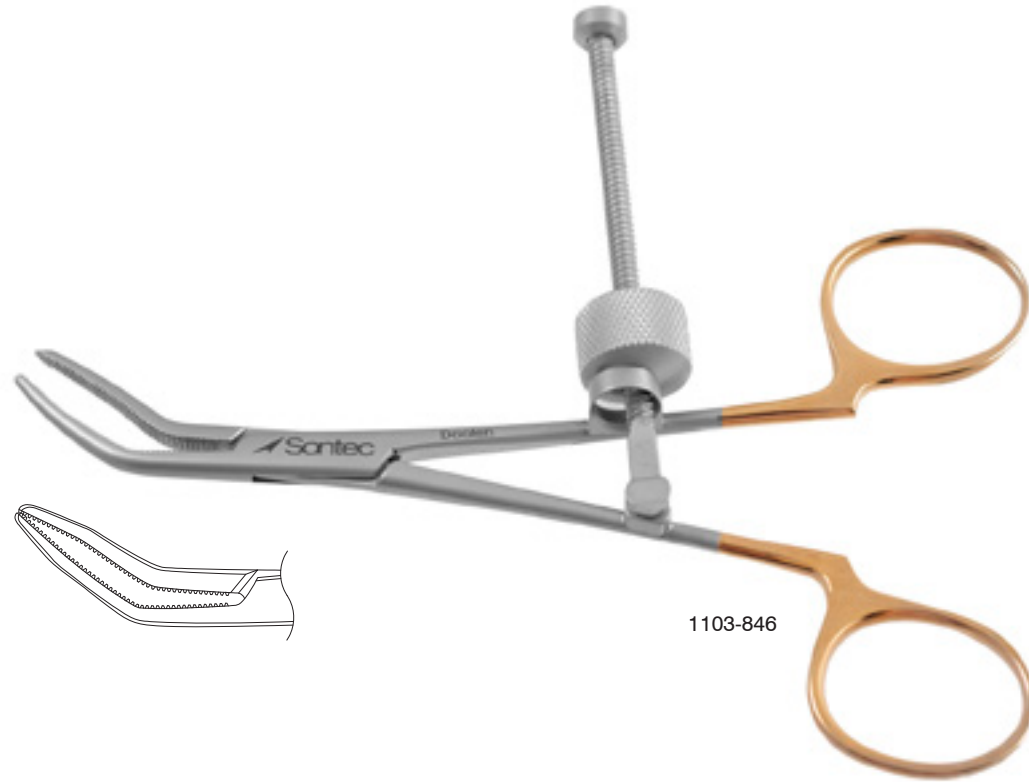
Strong curve / 6 1/2" (16.5 cm) / with ratchet  
1103-050



**Doolen Bone Holding Clamp**

2mm wide jaw / 5.5" (14cm)

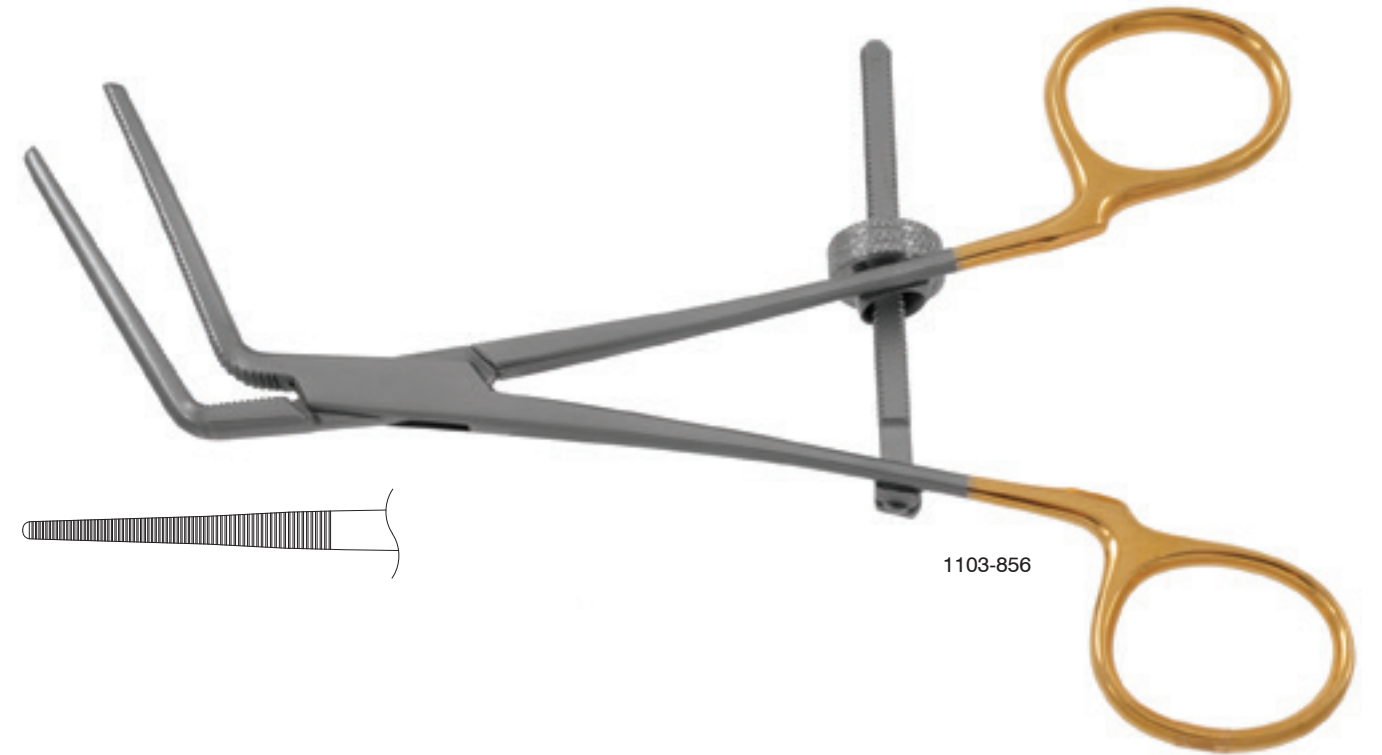
- 1103-845 str w/ speedlock
- 1103-846 ang w/ speedlock
- 1103-846R ang w/ ratchet



**Doolen Bone Holding Clamp**

3mm wide jaw / angle jaw / 7" (18 cm)

- 1103-856 with speedlock
- 1103-856R with ratchet



**KUV Richards Bone Clamp**

With ratchet / 9" (23 cm)

- 1103-067



**Bishop Bone Clamp**

With ratchet / 12 1/2" (31.8 cm)

305-380



305-380

**Patella 2 x 2 Prong Bone Clamp**

With speed lock / 7 1/4" (18.5 cm)

1103-215



1103-215

**Lowman Bone Holding Clamp**

1 x 1 prongs

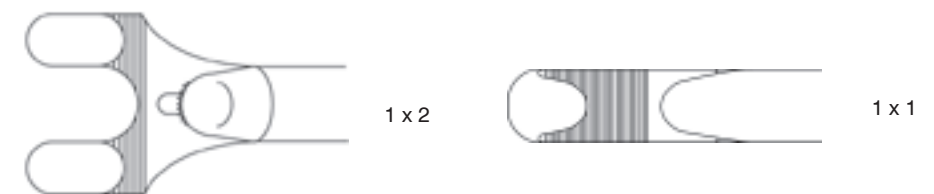
- 305-475 4 3/4" (12 cm)
- 305-480 7 1/4" (18.5 cm)
- 305-485 8" (20.5 cm)

1 x 2 prongs

- 305-460 4 3/4" (12 cm)
- 305-465 7 1/4" (18.5 cm)
- 305-470 8" (20.5 cm)



305-460



1 x 2

1 x 1

**Lowman Bone Clamp**

2 x 2 prongs on bone clamp

- 305-490 7 1/4" (18.5 cm)
- 305-495 8" (20 cm)



305-490

**Lambert-Lowman Bone Holding Clamp**

2 x 2 prongs / swivel jaw

305-496 7 1/4" (18.5 cm)

305-497 8" (20.5 cm)



**Gersten Traction Bar**

For Lowman Bone Clamps

305-505



**Ulrich Swivel Jaw Bone Clamp**

With speed lock / 10 1/2" (27 cm)

305-370 straight

305-370A angled

305-370B curved to side 1 x 2 prong





 Sontec Instruments®

Orthopedic BONE REDUCTION CLAMPS

**Bone Reduction Clamp Extra Large**

Oversized / extra-long ratchet / 12" (30 cm)

- 1103-049 extra-long prongs
- 1103-049L extra-long shanks



1103-049

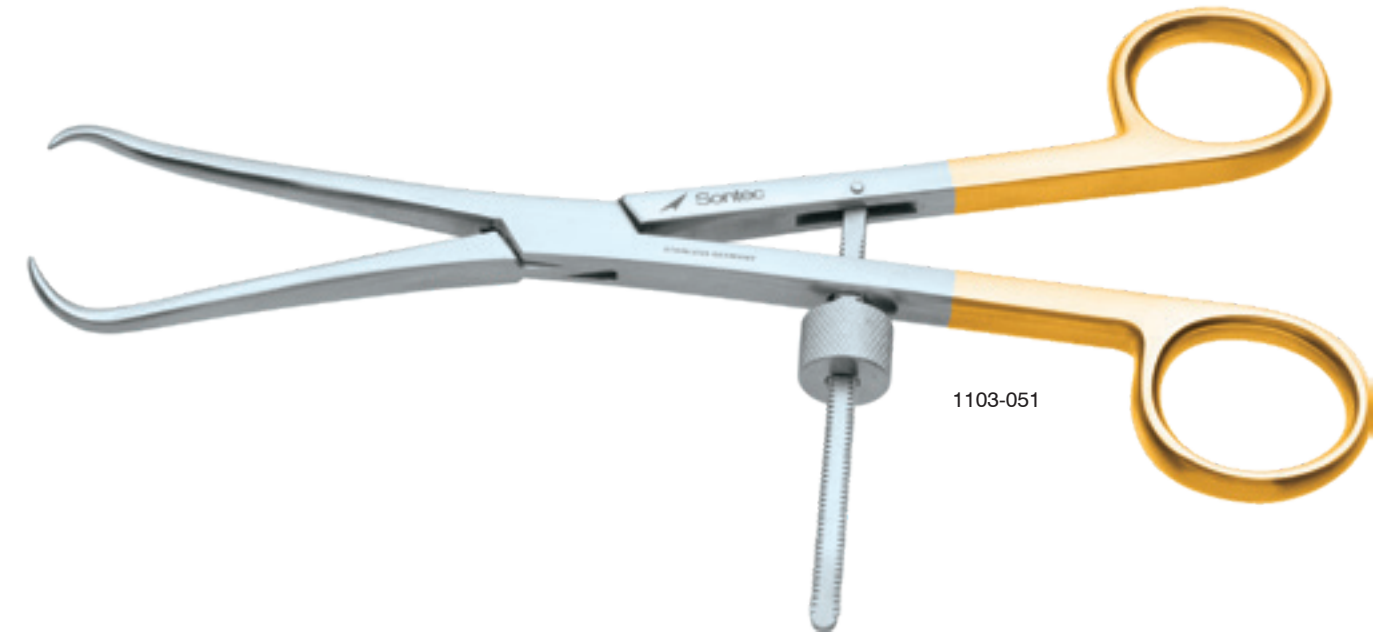


1103-049L

**AO-Type Bone Reduction Clamp**

With speedlock / short tips

- 1103-051 8" (21 cm)



1103-051

**Kistler Manus Bone Reduction Clamp**

6 1/8" (15 cm)

- 1103-033

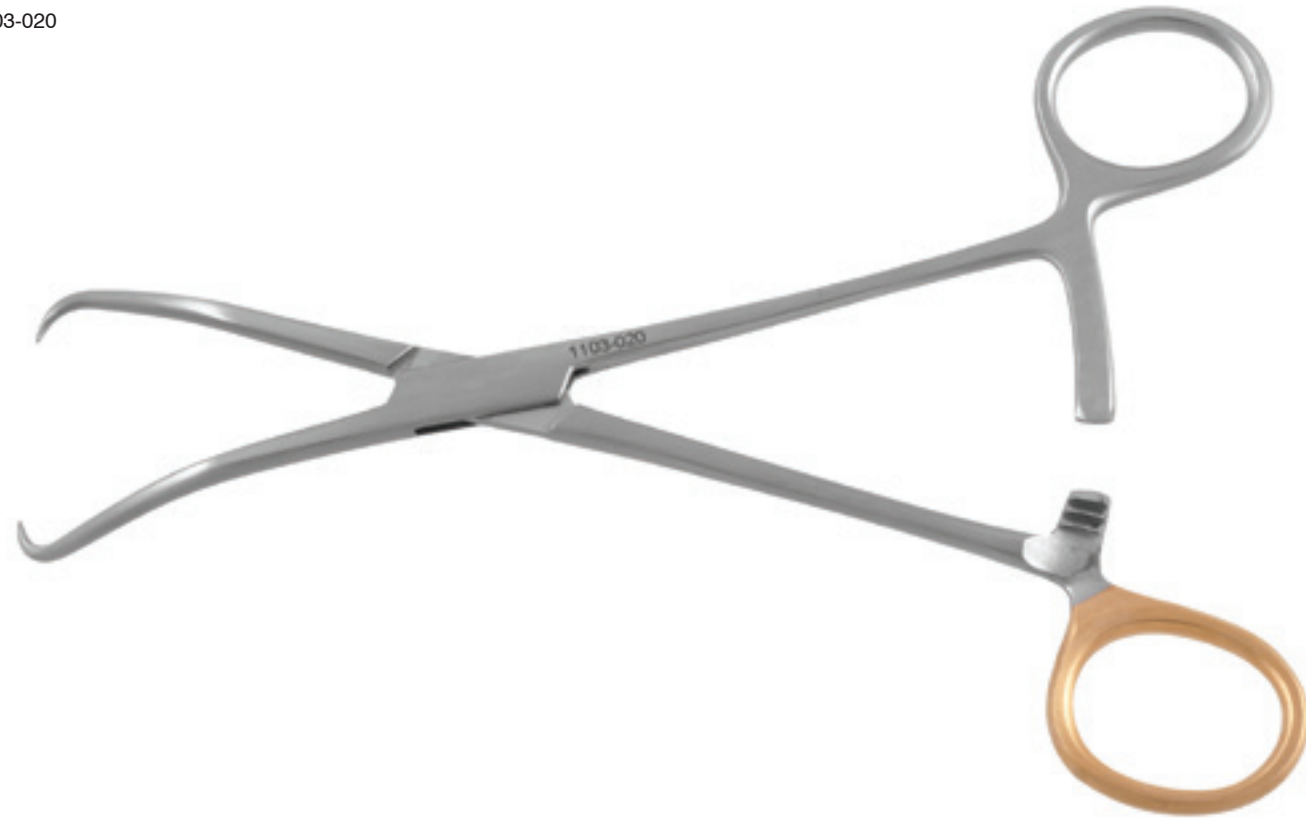


1103-033

**Reil Bone Holding Forceps**

Angled / 6 3/4" (17.1 cm)

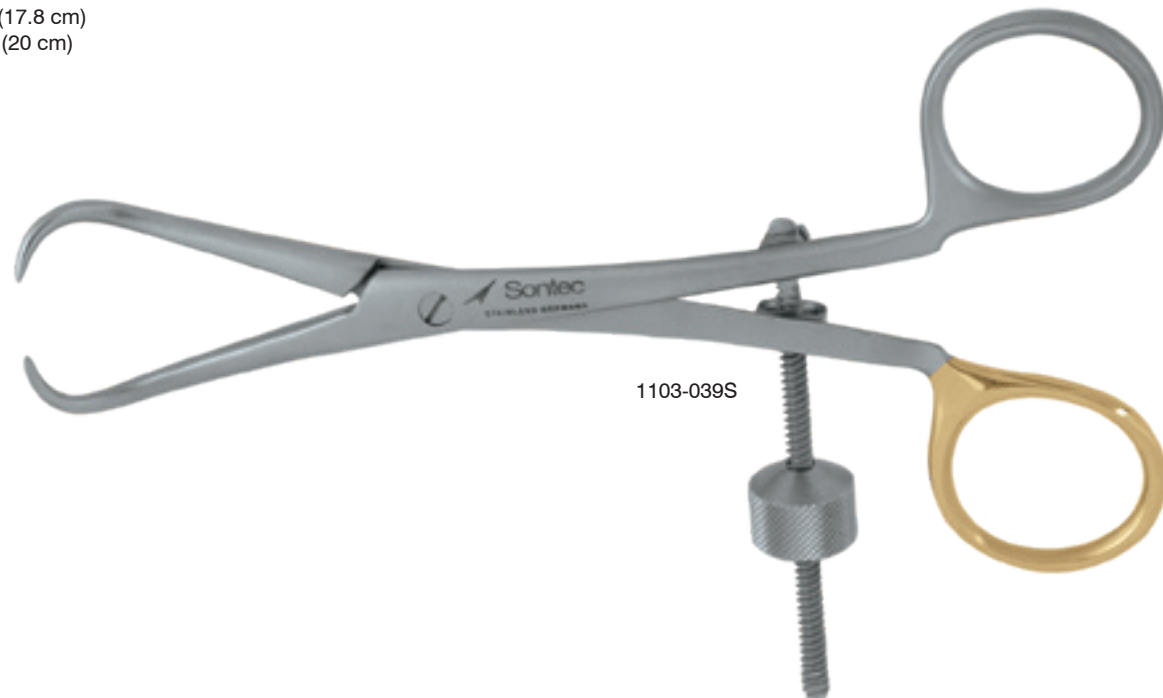
1103-020



**Bone Reduction Clamp**

With speedlock

1103-039S 7" (17.8 cm)  
1103-048 8" (20 cm)

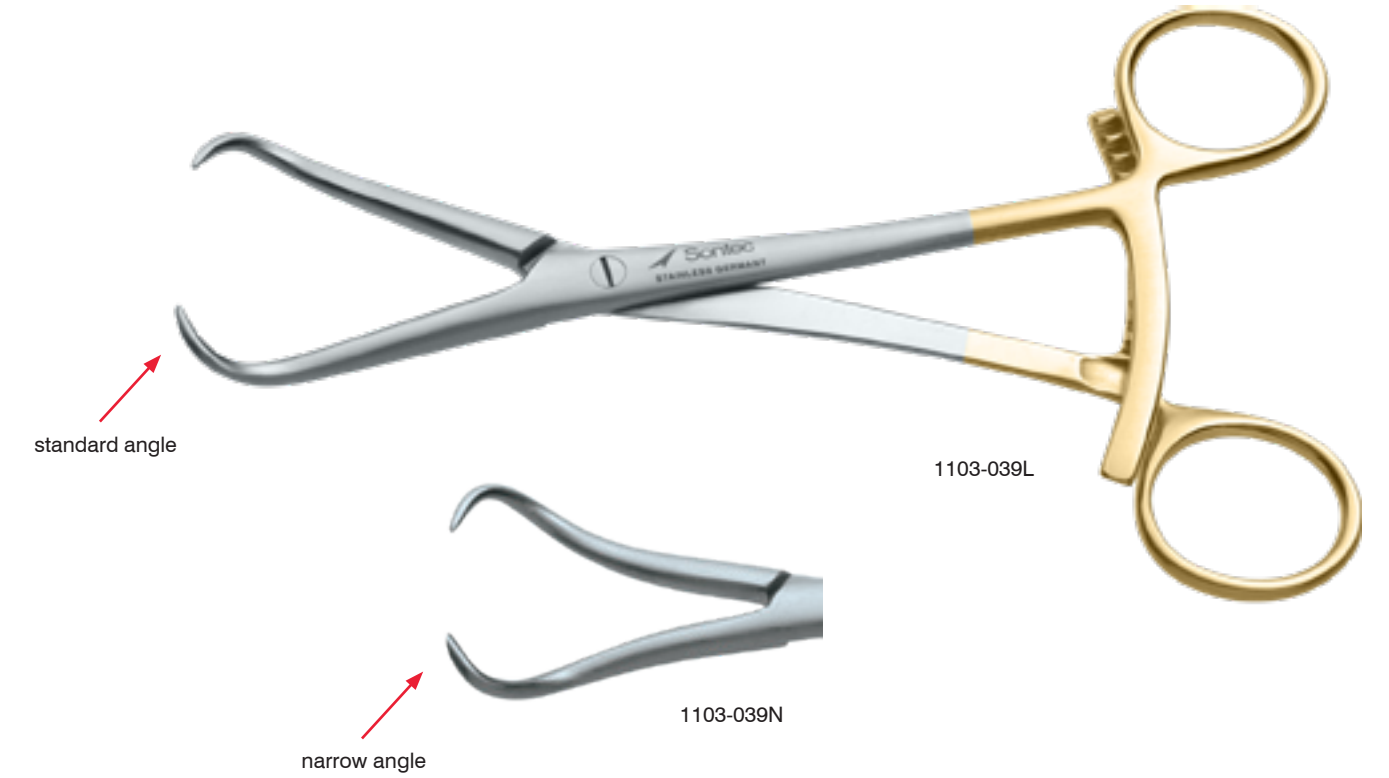


**Bone Reduction Clamp**

With ratchet

1103-039L\* 6" (15 cm) long double ratchet  
1103-039N\* 7" (17.8 cm) long double ratchet  
1103-045 8" (20 cm) extra long ratchet

\* Other sizes available



standard angle

1103-039L

narrow angle

1103-039N



1103-045

**Kristler Manus Bone Reduction Clamp**

With speed lock / serrated jaw / 6 1/8"

1103-0331



1103-0331

**Bone Reduction K-Wire Guide Clamp**

With double long ratchet / with 1.8 mm ID guide cylinder with serrated foot

- 1103-0391 with 10 mm k-wire guide 6" (15 cm)
- 1103-0453 with 12 mm k-wire guide 8" (20 cm)
- 1103-0454 with 15 mm k-wire guide 8" (20 cm)



1103-0453

**Raleigh Bone Reduction Clamp**

7 mm / 5 1/2" (14 cm)

- 1103-024 with ratchet
- 1103-023 with speed lock



1103-024

**Locke Bone Reduction Clamp**

With long ratchet / 4 mm / 6" (15.2 cm)

1103-027

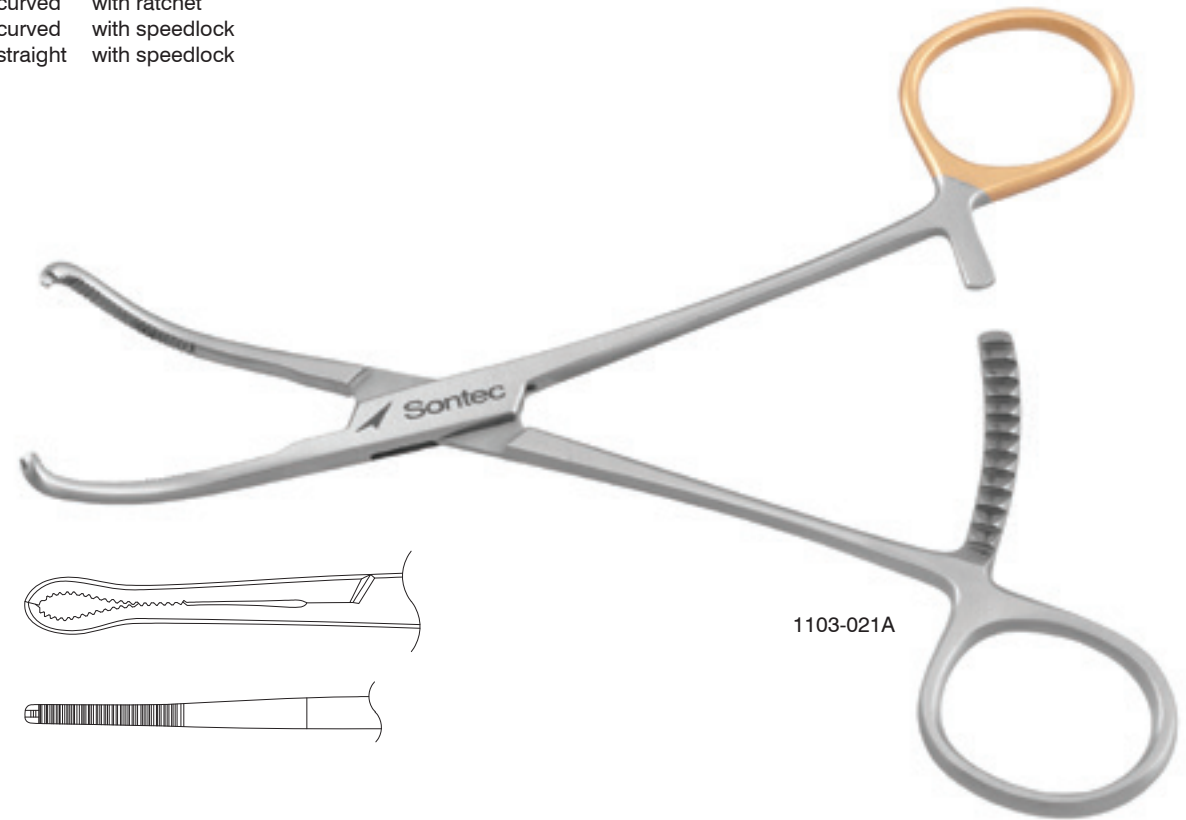


1103-027

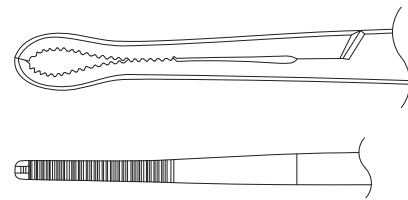
**Locke CSU Bone Reduction Clamp**

1x2 teeth tips with contoured serrated jaws / 6" (15 cm)

- 1103-021 straight with ratchet
- 1103-021A curved with ratchet
- 1103-023A curved with speedlock
- 1103-023B straight with speedlock



1103-021A



1103-023A

**Raleigh Bone Holding Forceps**

- 1103-040A 3 mm 5 1/2" with ratchet
- 1103-040B 5 mm 5 1/2" with ratchet
- 1103-040C 12 mm 7" with speedlock
- 1103-040AS 3 mm 5 1/2" with speedlock
- 1103-040BS 5 mm 5 1/2" with speedlock



1103-040A



1103-040B

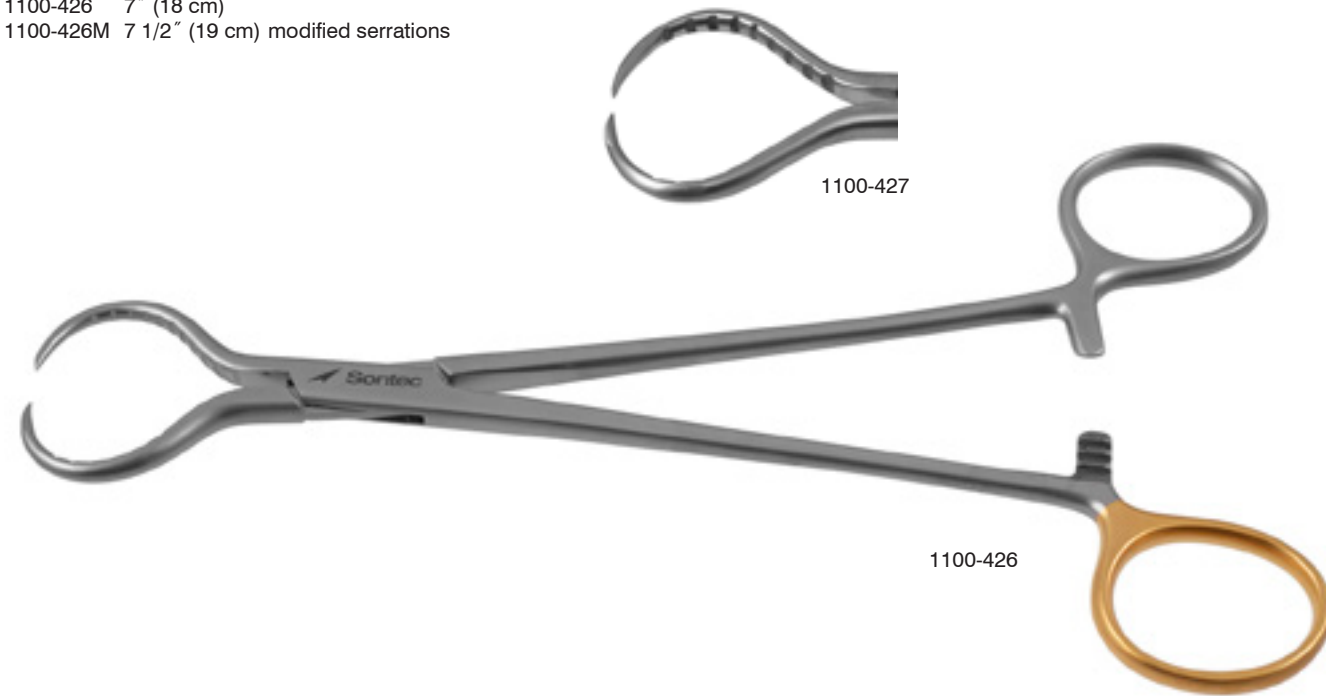


1103-040C

**Lewin Bone Reduction Clamp**

**Serrated**

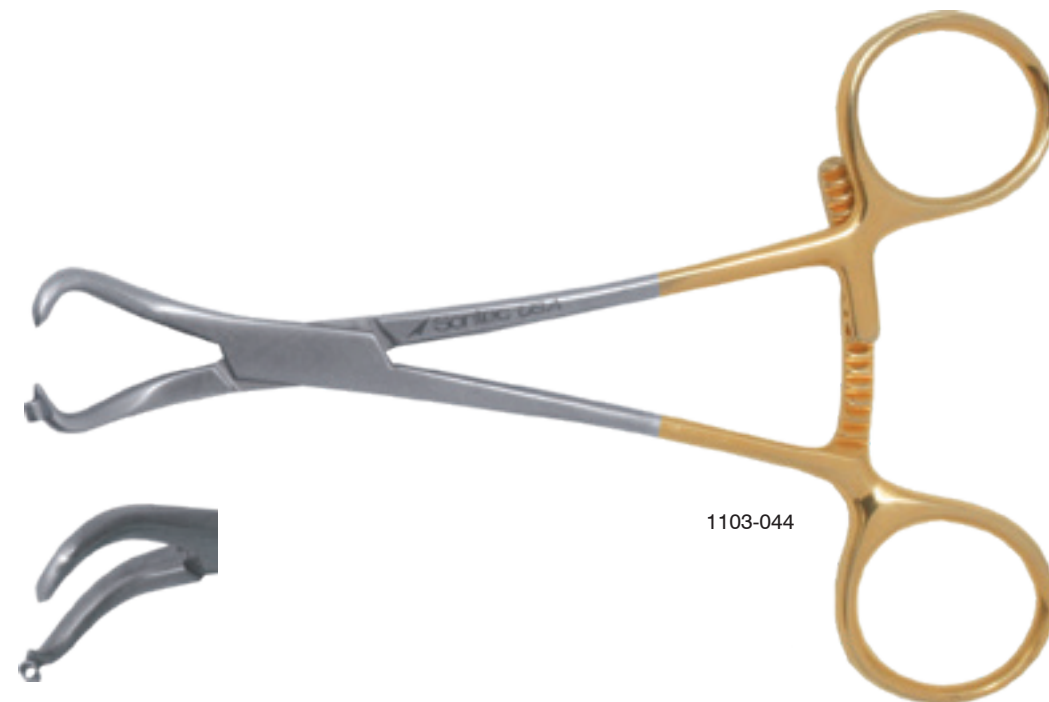
1100-426 7" (18 cm)  
1100-426M 7 1/2" (19 cm) modified serrations



**Bone Reduction Clamp**

**With K-wire guide / 5 1/4" (13.5 cm)**

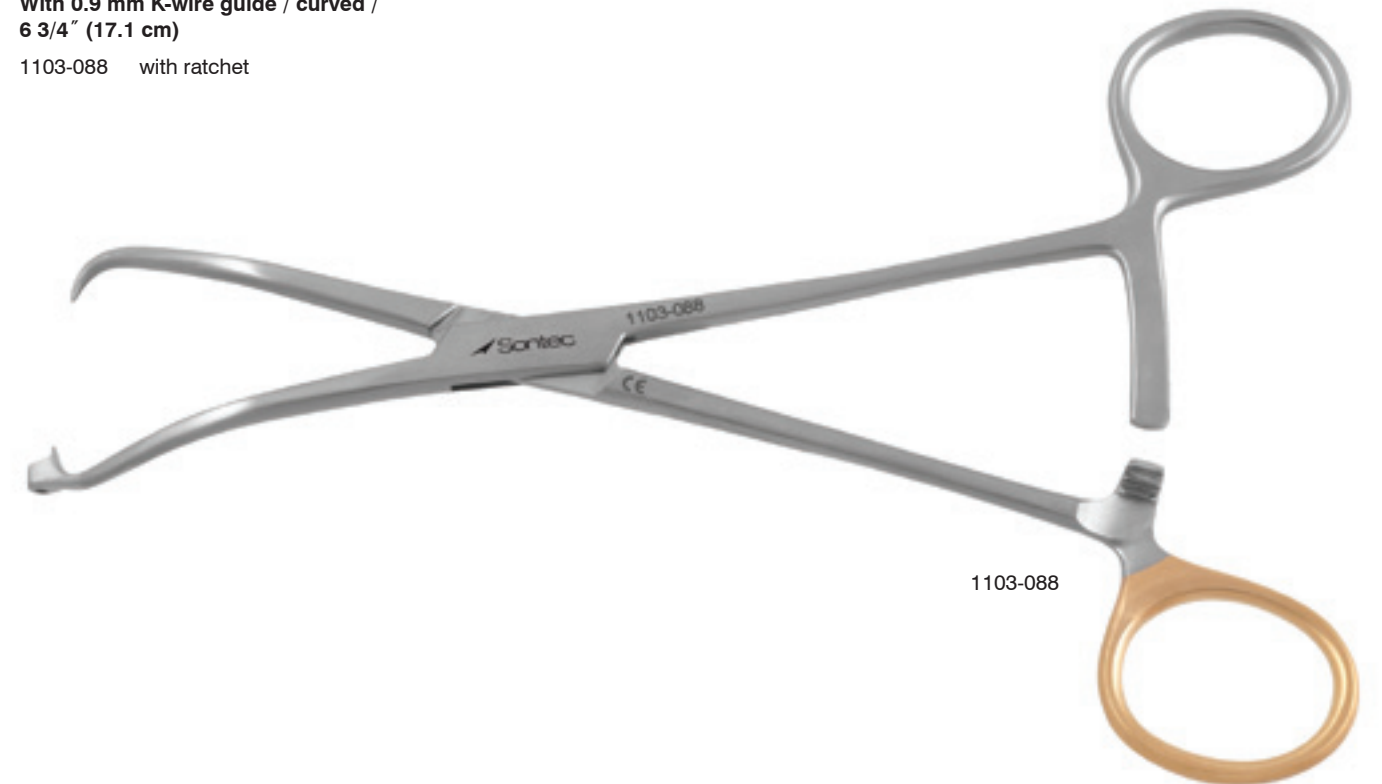
1103-044 with ratchet  
1103-044S with speed lock



**Bone Holding Forceps**

**With 0.9 mm K-wire guide / curved / 6 3/4" (17.1 cm)**

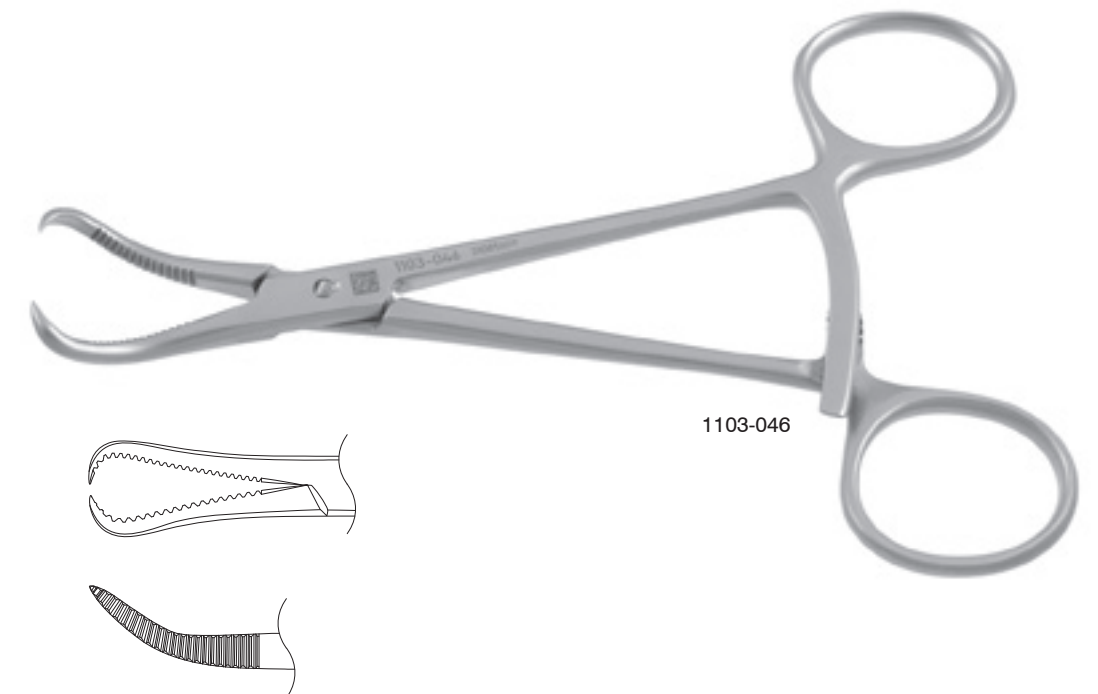
1103-088 with ratchet



**Deluxe Bone Reduction Clamp**

**Serrated jaws / with ratchet / 5 1/4" (13.3 cm)**

1103-046



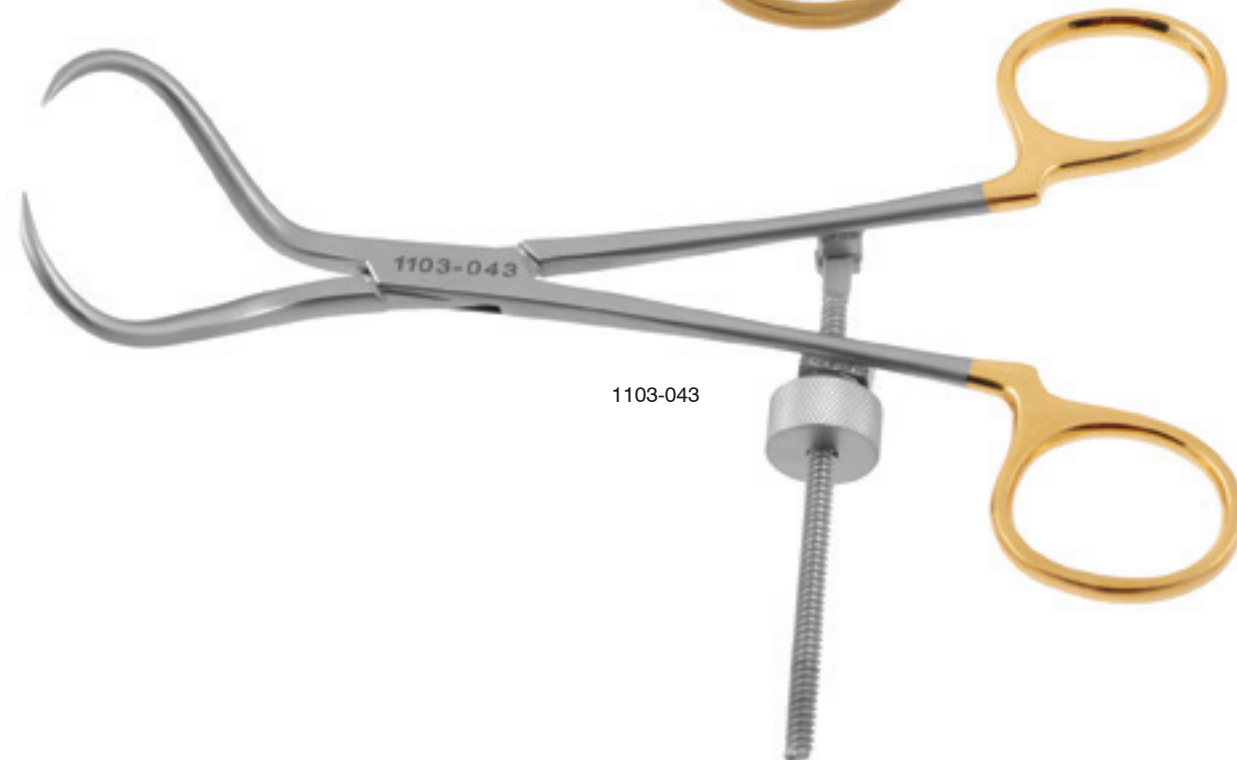
**Bone Reduction Clamp**

**With extra long ratchet**

- 1103-040 5 1/8" (13.25 cm)
- 1103-040R 5 1/8" (15.2 cm) longer ratchet
- 1103-042 7" (18 cm)

**With speedlock**

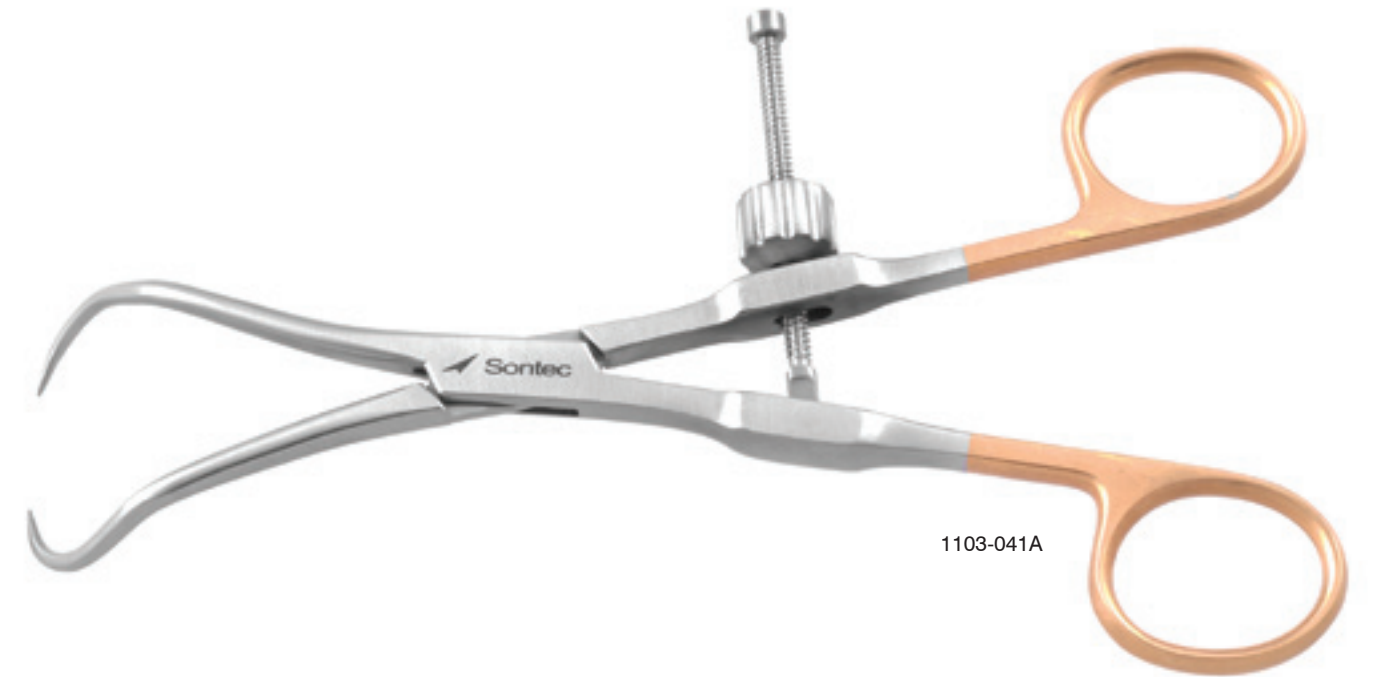
- 1103-041 5 1/8" (13.25 cm)
- 1103-0425 6 1/8"
- 1103-043 6 1/2" (16.5 cm)



**Bone Reduction Clamp**

**AO types**

- 1103-041A 8" (20.5 cm)
- 1103-041B 6" (15 cm)
- 1103-041C 10" (25.5 cm)



**Ikuta Bone Clamp**

5" (13 cm)

1103-054A	2.0 mm	straight
1103-054B	2.0 mm	curved
1103-054C	3.0 mm	straight
1103-054D	3.0 mm	curved



1103-054C

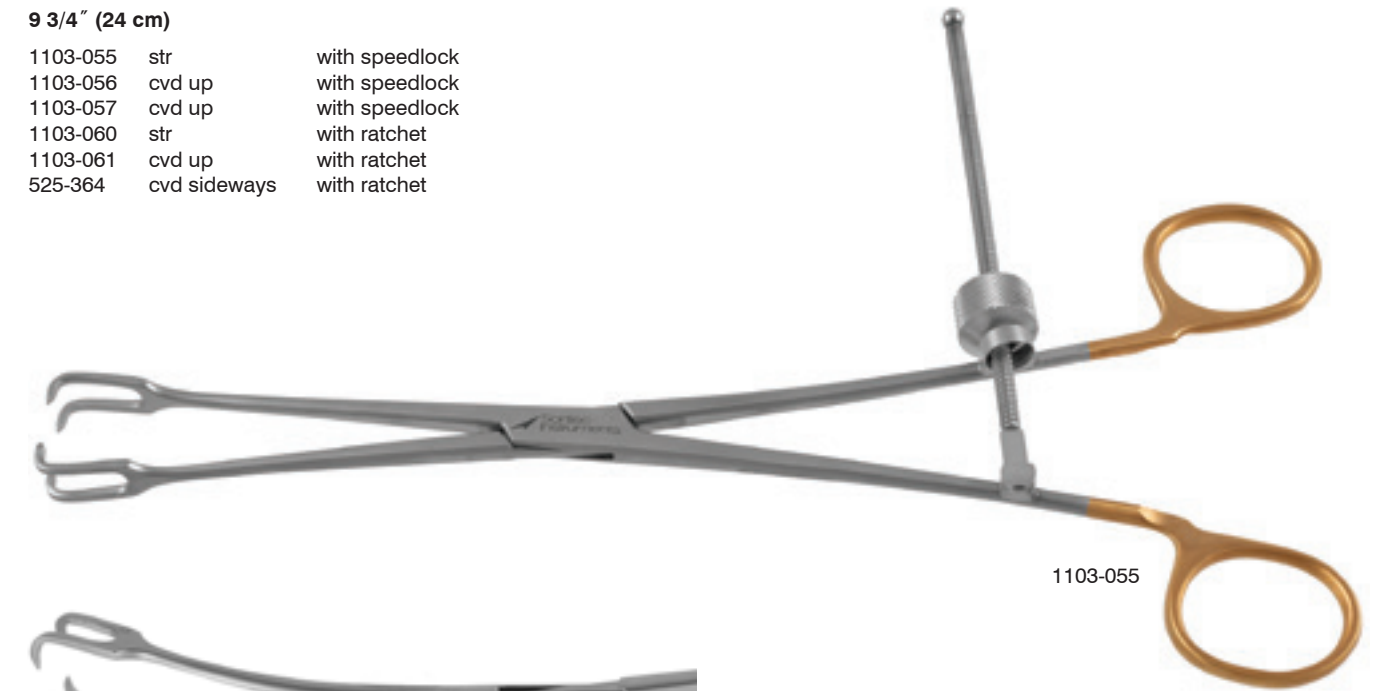


1103-054D

**Schroeder Vulsellum Bone Reduction Clamp**

9 3/4" (24 cm)

1103-055	str	with speedlock
1103-056	cvd up	with speedlock
1103-057	cvd up	with speedlock
1103-060	str	with ratchet
1103-061	cvd up	with ratchet
525-364	cvd sideways	with ratchet



1103-055



1103-057



1103-060



525-364

**Sontec®-Condial Reduction Clamp**

8" (20.5 cm)

1103-036 speedlock  
1103-036R ratchet



**Micro Bone Reduction Clamp**

1103-037 3 3/4" (9.5 cm) with plate holding tip  
1103-037A 4 3/4" (12 cm)



**Bone Reduction Clamp**

With speedlock / 3 3/4" (9.5 cm)

1103-037S



**Redler Reposition Reduction Clamp**

With K-wire guide / 1.6 mm / 5 1/4" (13.5 cm)  
1103-031



1103-031

**Plate & Bone Reduction Forceps**

With long ratchet / 4 3/4" (12 cm)  
1103-038



1103-038

**Hip Reduction Clamp**

With speed lock

- 1106-019 7 3/4"
- 1106-020 10"
- 1106-022 10" 3 balls spikes
- 1106-023 10" asymmetric 3 balls spikes
- 1106-024 10" asymmetric



1106-019



1106-022



1106-023



1106-024



**Martin Cartilage Clamp**

- 350-866 5 3/4" (14.6 cm)
- 350-867 6 1/2" (16.5 cm)
- 350-869 7" (18 cm)
- 350-871 8" (20 cm)



350-867

**Bircher-Ganske Cartilage Clamp**

- 8" (20.5 cm)
- 350-884 straight
- 350-885 curved



350-884

**CSU Meniscus Clamp**

- 5 3/4" (14.5 cm)
- 1103-204 str
- 1103-204A angled



1103-204

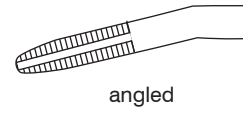


1103-204A

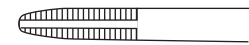
**Sontec Meniscus Clamp**

Serrated grooved jaws middle weight / 5 3/8" (13.5 cm)

- 1103-202 str
- 1103-203 angled



1103-202



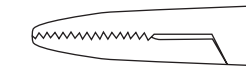
**Sontec Delicate Meniscus Clamp**

Heavy serrated jaws with gap / 5 3/8" (13.5 cm)

- 1103-202D straight
- 1103-203D angled



1103-202D



1103-203D

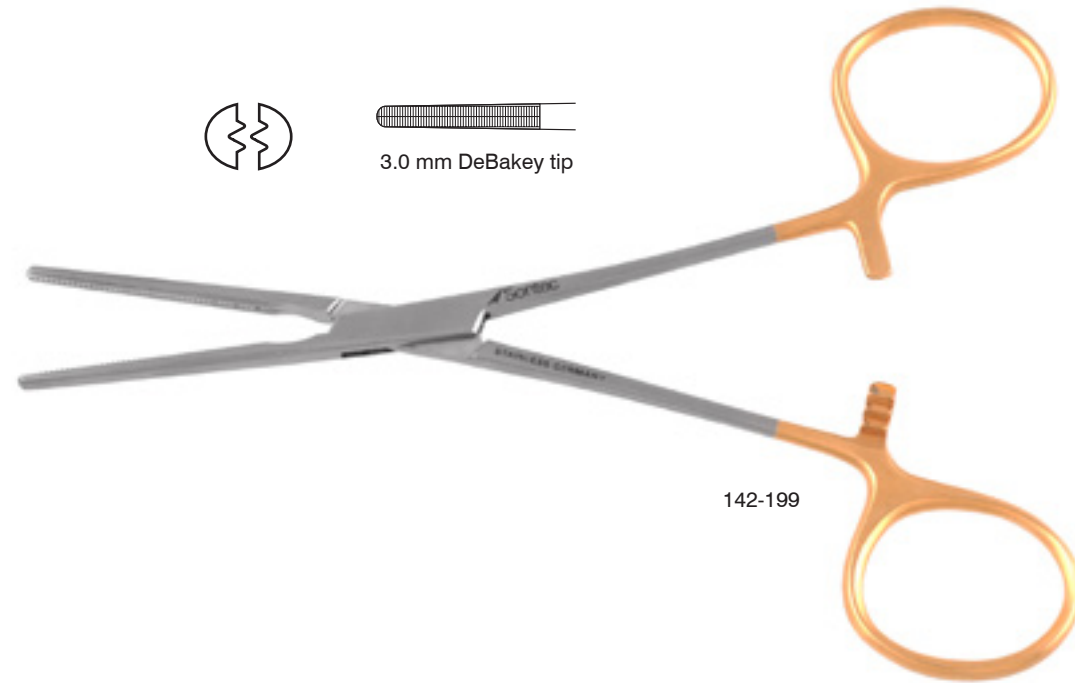
**DeBakey Meniscus Clamp**

Autraumatic jaw / 3 cm jaw / 5 1/2" (14 cm)

142-199 str



3.0 mm DeBakey tip



142-199

**Sontec Mesh Meniscus Clamp**

Fenestrated jaws / 7 1/4" (18.5 cm)

350-880 15 teeth with 1 x 2



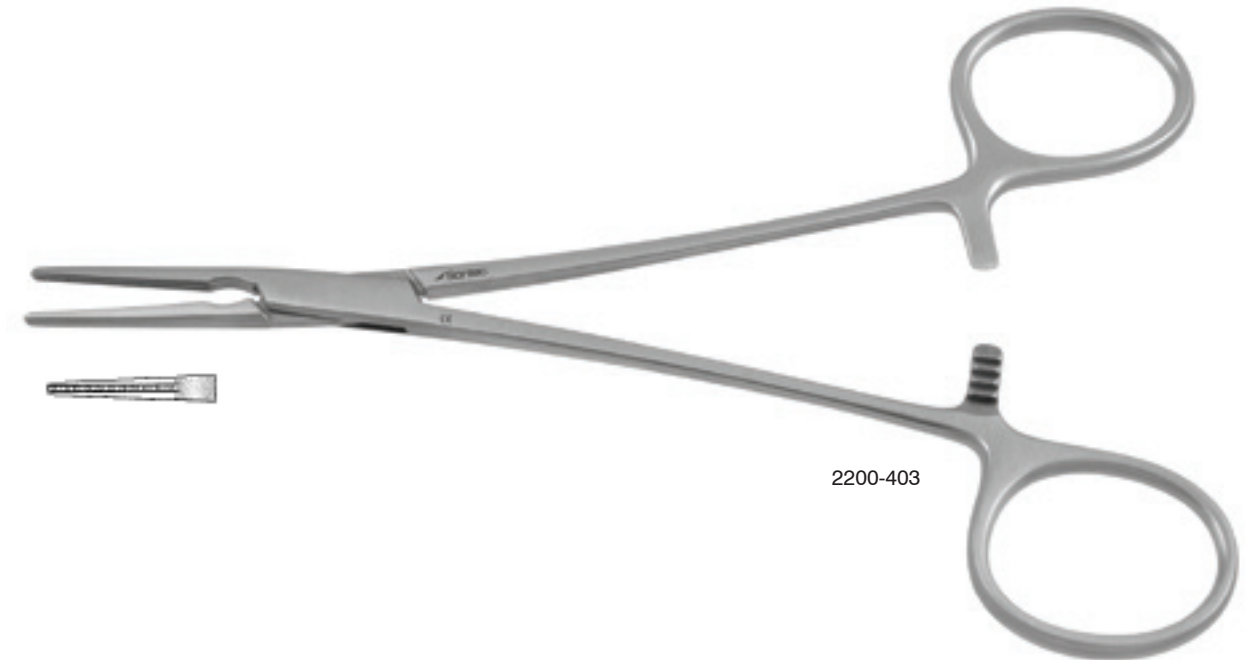
350-880

**DeBakey Mosquito Forceps**

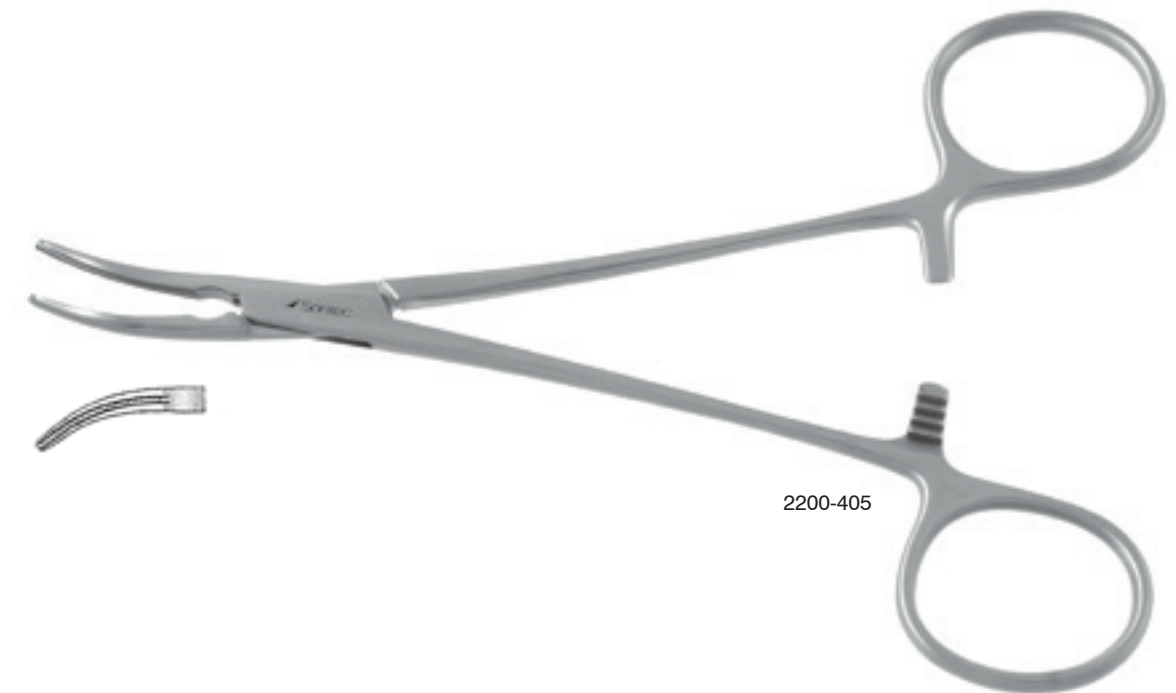
6" (15 cm)

2200-403 straight

2200-405 curved



2200-403



2200-405



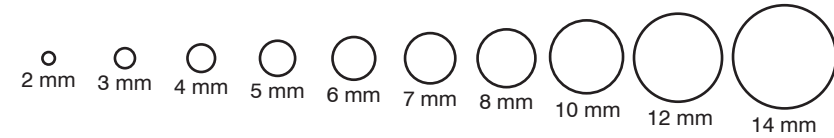
 Sontec Instruments®

Orthopedic CURETTES

**Stille Curette**

**Flat handle / round cup**

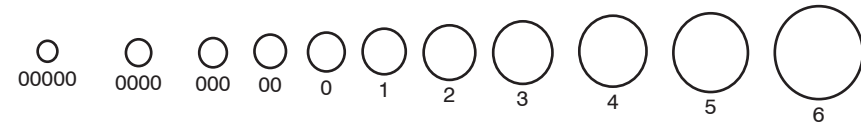
1103-263	2 mm	6 1/2"
1103-264	3 mm	6 1/2"
1103-265	4 mm	6 1/2"
1103-266	5 mm	7 3/4"
1103-267	6 mm	7 3/4"
1103-268	7 mm	7 3/4"
1103-269	8 mm	7 3/4"
1103-270	10 mm	8"
1103-271	12 mm	8"
1103-272	14 mm	8"



**Bruns Round Cup Curette**

**Round cup / straight / 6 3/4" (17 cm)**

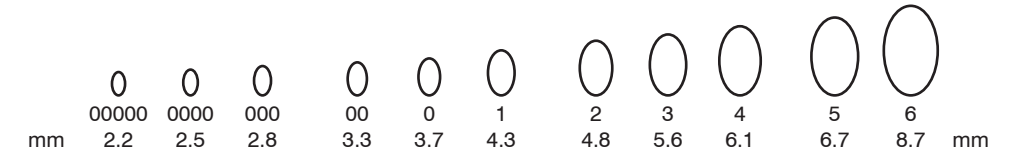
320-708	size 00000
320-709	size 0000
320-710	size 000
320-711	size 00
320-712	size 0
320-713	size 1
320-714	size 2
320-715	size 3
320-716	size 4
320-717	size 5
320-718	size 6



**Bruns Oval Cup Curette**

**Oval cup / straight / 6 3/4" (17 cm)**

320-808	size 00000
320-809	size 0000
320-810	size 000
320-811	size 00
320-812	size 0
320-813	size 1
320-814	size 2
320-815	size 3
320-816	size 4
320-817	size 5
320-818	size 6



**Oval cup / straight / 9" (23 cm)**

320-827	size 00000
320-829	size 0000
320-830	size 000
320-831	size 00
320-832	size 0
320-833	size 1
320-834	size 2
320-835	size 3
320-836	size 4
320-837	size 5
320-838	size 6



**Oval cup / angled / 9" (23 cm)**

320-848	size 00000
320-849	size 0000
320-850	size 000
320-851	size 00
320-852	size 0
320-853	size 1
320-854	size 2
320-855	size 3
320-856	size 4
320-857	size 5
320-858	size 6



**Bruns Oval Cup Curette**

Oval cup / straight / phenolic handle /  
6 3/4" (17 cm)

- 320-810P size 000
- 320-811P size 00



320-810P

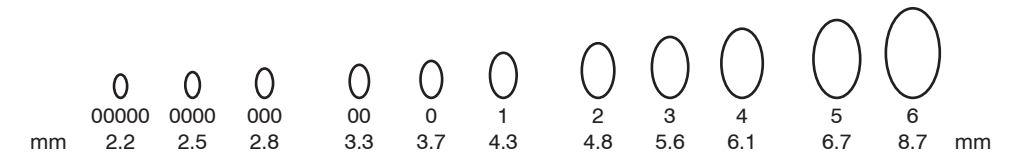


320-811P

**Bruns Solid Hexagonal Curette**

Angled / solid hexagonal handle / oval / 9" (22.9 cm)

- 320-870A size 000
- 320-871A size 00
- 320-872A size 0
- 320-873A size 1
- 320-874A size 2
- 320-875A size 3
- 320-876A size 4
- 320-877A size 5
- 320-878A size 6



320-870A

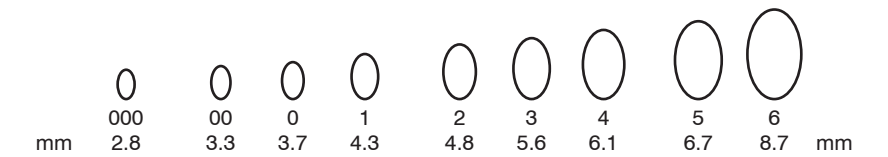


320-876A

**Bruns Hexagonal Handle Curette**

Solid hexagonal handle / 9" (23 cm)

- 320-870 size 000
- 320-871 size 00
- 320-872 size 0
- 320-873 size 1
- 320-874 size 2
- 320-875 size 3
- 320-876 size 4
- 320-877 size 5
- 320-878 size 6

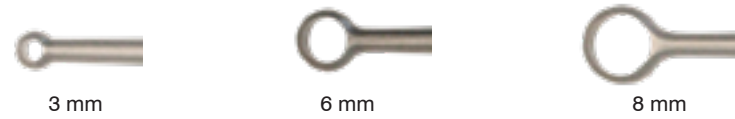


320-876

**Cone Ring Curette**

Aluminum handle / inside ring diameter / 9" (23 cm)

- 320-952 3mm straight
- 320-955 3mm angle
- 320-951 6mm straight
- 320-954 6mm angle
- 320-950 8mm straight
- 320-953 8mm angle



320-953

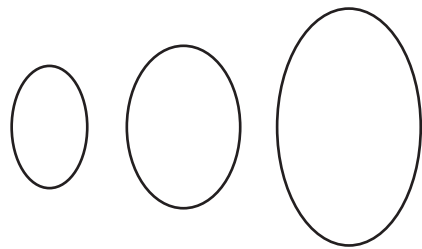
**Hatt Spoon Curette**

Solid hexagonal handle / 9" (23 cm)

- 320-778 10 mm
- 320-779 15 mm
- 320-780 20 mm



320-780



10 mm    15 mm    20 mm

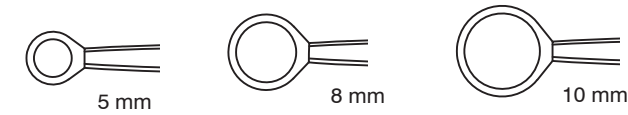
**Bruns Ring Curette**

9" (23 cm)

- 1271-145 5 mm inside ring diameter
- 1271-147 8 mm inside ring diameter
- 1271-146 10 mm inside ring diameter



1271-145



**Volkman Curette**

Double-ended / oval cup - oval cup

- 320-941 5 1/2" (14 cm)
- 320-942 6 1/2" (16.5 cm)
- 320-948 8" (20.5 cm)

Double-ended / round cup - oval cup

- 320-940 5" (13 cm)
- 320-944 6 1/2" (16.5 cm)
- 320-946 8" (20.5 cm)



320-941



320-940

**Jansen Curette**

Sharp / double-ended / 6" (15 cm)

- 320-761 straight round cups
- 320-760 20° double-angled oval cups



320-761



320-760



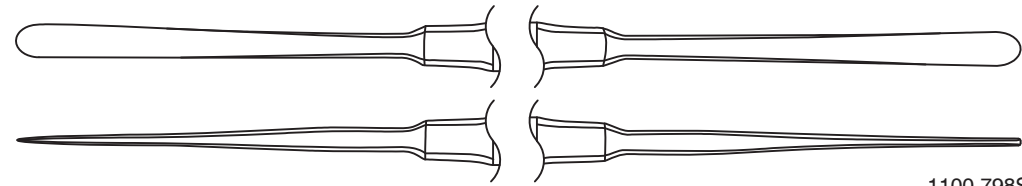
 Sontec Instruments®

Orthopedic ELEVATORS

**Freer Periosteal Elevator**

Double-ended / square handle / straight / 4.5 mm tip / sharp/blunt / 7 3/4"

1100-798S



1100-798S

Double-ended / square handle / curved / 4.5 mm tip / sharp/blunt

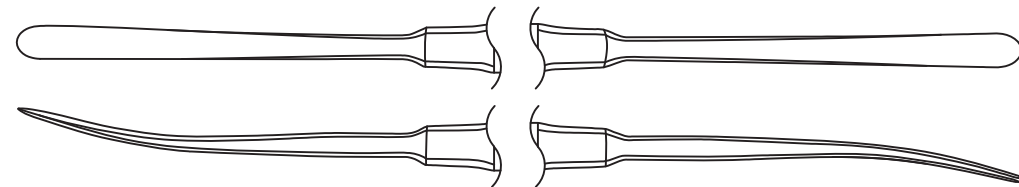
1100-798 7 3/4"

1100-798G 8 1/2"

1100-798F 8 3/4"



1100-798



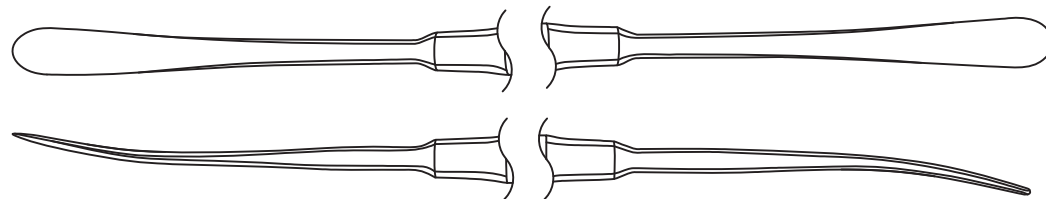
Double-ended / square handle / curved / 6.5 mm tip / sharp/blunt

1100-798A 7 3/4"

1100-798E 8 3/4"



1100-798A



**Freer Periosteal Elevator**

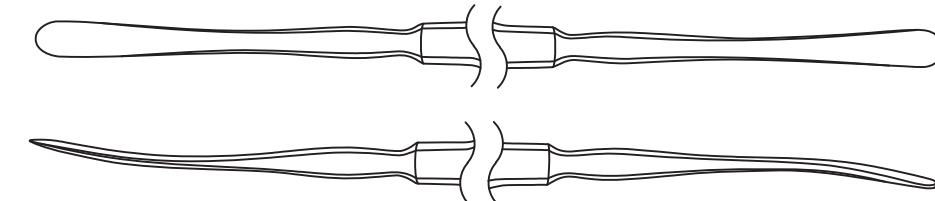
Double-ended / round handle / curved / sharp/blunt / 7 1/2"

1100-798B 5 mm tip

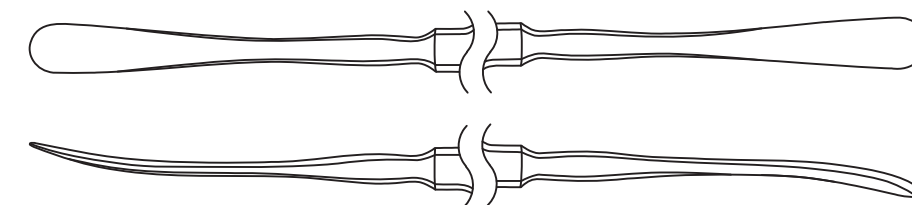
1100-798C 6.7 mm tip



1100-798B



1100-798C

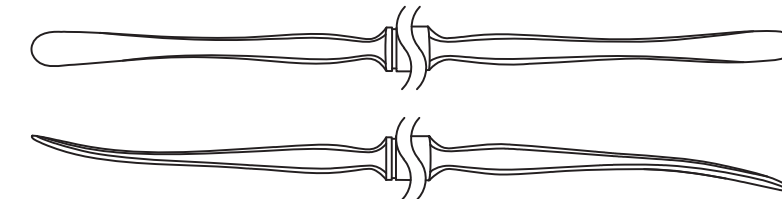


Double-ended / knurled round handle / curved / 4.5 mm tip / sharp/blunt / 6 3/4"

1100-798D

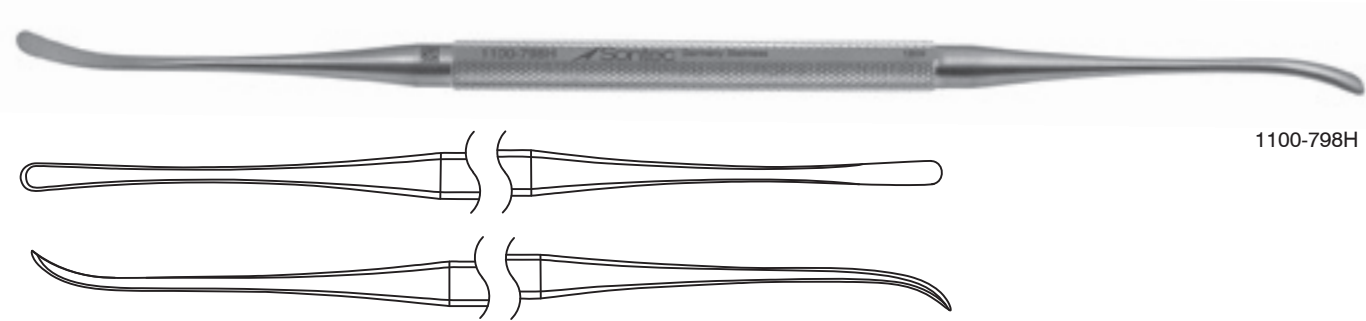


1100-798D



**Freer Periosteal Elevator**

Double-ended / round handle / curved / 3.5 mm tip / sharp / 7 1/4" / 1100-798H



1100-798H

**Adson Periosteal Elevator**

Single-ended / 6 1/2" (16.5 cm)  
 412-520 str chisel edge  
 412-522 cvd blunt  
 412-524 cvd semi-sharp  
 412-526 str semi-sharp



412-520

412-522

412-524

412-526

**Love Adson Periosteal Elevator**

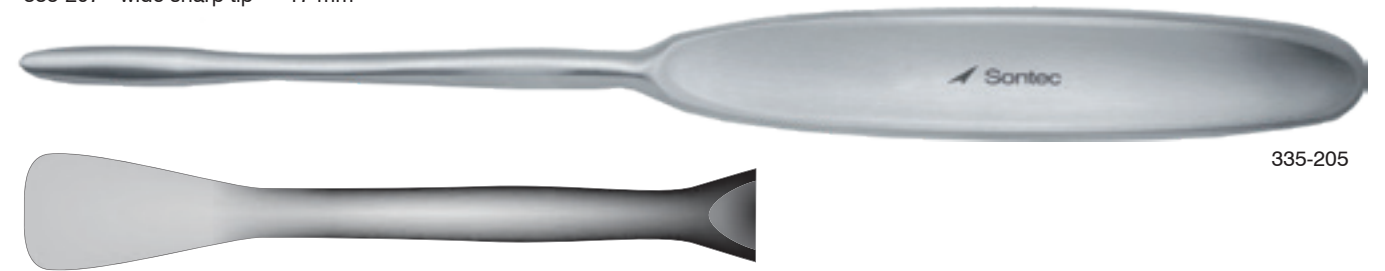
Single-ended / 6 3/4" (16.5 cm)  
 412-528 cvd semi-sharp



412-528

**Langenbeck Periosteal Elevator**

Single-ended / 8" (20 cm)  
 335-205 narrow blunt tip 6 mm  
 335-207 wide sharp tip 17 mm



335-205

335-207

**Hoen Periosteal Elevator**

7 mm tip / 6 1/4" (16 cm)  
 412-530



412-530

**Lane Periosteal Elevator**

Single-ended / 7 1/2" (19 cm)  
 335-210 narrow semi-sharp tip 6 mm  
 335-212 wide semi-sharp tip 10 mm



335-210

335-212

**McIlwraith Periosteal Elevator**

Single-ended / 7 1/2" (19 cm)

- 1404-870 sharp
- 1404-871 sharp phenolic handle



1404-870



1404-871

**Key Periosteal Elevator**

6 3/4" (17 cm)

- 335-135 1/8" tip
- 335-136 1/4" tip
- 335-137 3/8" tip

7 1/2" (19 cm)

- 335-138 1/2" tip
- 335-139 5/8" tip



8" (20.5 cm)

- 335-140 3/4" tip

8 3/8" (21.5 cm)

- 335-141 1" tip



335-135



335-136



335-137



335-139

**Joker Periosteal Elevator**

Blunt / curved / 6" (15.5 cm)

412-518



412-518

**Williger Periosteal Elevator**

Sharp / 6 1/4"

- 412-5374 4 mm
- 412-5375 5 mm
- 412-53765 6.5 mm
- 412-5377 7 mm



412-53765

**Sayre Elevator**

Double-ended / 6 1/2" (16.5 cm)

- 1100-512 sharp/blunt
- 1100-512B blunt/blunt



1100-512

**Piermattei Shoulder Elevator**

Single-ended / 9" (23 cm)

1103-210



1103-210

**Sedillot Elevator**

18 mm tip / 7 1/2" (19 cm)

335-226



335-226

**Sontec A O Type Elevator / Raspatory**

Phenolic handles / 7 1/2" (19 cm)

335-250	6 mm tip	str	flat edge
335-254	3 mm tip	slight curve	round edge
335-255	3 mm tip	slight curve	flat edge
335-260	6 mm tip	slight curve	flat edge
335-265	6 mm tip	slight curve	round edge



335-250



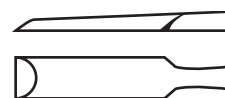
335-255



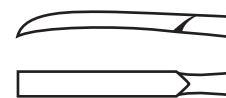
335-260



335-265



335-250



335-255



335-260



335-265

**Sontec A O Type Elevator / Raspatory**

Phenolic handles / 8" (20 cm)

335-270	13 mm tip	angled	flat edge
335-275	14 mm tip	str	round edge
335-280	14 mm tip	cvd	round edge
335-285	20 mm tip	str	round edge



335-270



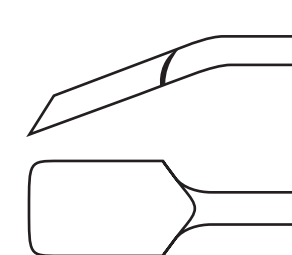
335-275



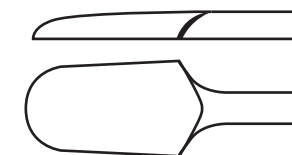
335-280



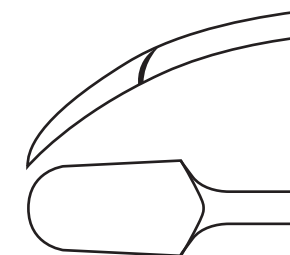
335-285



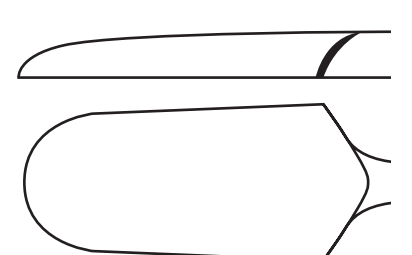
335-270



335-275



335-280



335-285



 Sontec Instruments®

Orthopedic GOUGES

**Smith-Petersen Gouge**

**Straight / 8" (20.5 cm)**

- 330-630 6 mm (1/4") tip
- 330-631 9 mm (3/8") tip
- 330-632 13 mm (1/2") tip
- 330-633 16 mm (5/8") tip
- 330-634 19 mm (3/4") tip
- 330-635 25 mm (1") tip
- 330-636 32mm (1 1/4") tip



330-634

**Curved / 8" (20.5 cm)**

- 330-640 6 mm (1/4") tip
- 330-641 9 mm (3/8") tip
- 330-642 13 mm (1/2") tip
- 330-643 16 mm (5/8") tip
- 330-644 19 mm (3/4") tip
- 330-645 25 mm (1") tip
- 330-646 32mm (1 1/2")tip

**Cobb Type Spinal Gouge**

**11" (20.5 cm)**

- 330-650 straight
- 330-651 medium curve
- 330-652 strong curve
- 330-653 reverse curve



330-652

**Sontec Micro Gouge**

**5 1/2" (14 cm)**

- 475-803 3mm
- 475-804 4mm
- 475-805 5mm
- 475-806 6mm



475-804



475-805



475-806

**Mini Lexer Gouge**

**7" (18 cm)**

- 330-020 4 mm tip
- 330-021 6 mm tip
- 330-022 8 mm tip
- 330-023 10 mm tip
- 330-024 12 mm tip



330-020



330-021

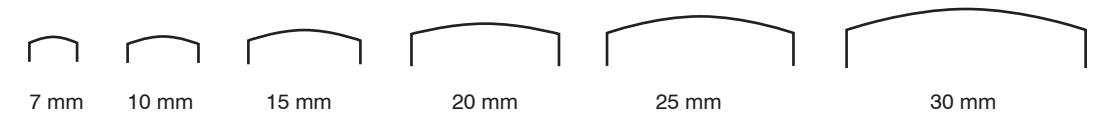


330-022

**Lexer Gouge**

**8 3/4" (22.5 cm)**

- 330-030 7 mm tip
- 330-031 10 mm tip
- 330-032 15 mm tip
- 330-033 20 mm tip
- 330-034 25 mm tip
- 330-035 30 mm tip



330-030



330-032



330-034

**Hibbs Gouge**

**Straight / 9 1/2" (24.1 cm)**

- 330-590 1/4"
- 330-591 3/8"
- 330-592 1/2"
- 330-593 5/8"
- 330-594 3/4"
- 330-595 7/8"
- 330-596 1"
- 330-597 1 1/8"
- 330-598 1 1/4"
- 330-599 1 1/2"



330-591

**Curved / 9 1/2" (24.1 cm)**

- 330-600 1/4"
- 330-601 3/8"
- 330-602 1/2"
- 330-603 5/8"
- 330-604 3/4"
- 330-605 7/8"
- 330-606 1"
- 330-607 1 1/8"
- 330-608 1 1/4"
- 330-609 1 1/2"

**Hibbs Chisel**

**Straight / 9 1/2" (24.1 cm)**

- 330-500 1/4"
- 330-511 3/8"
- 330-512 1/2"
- 330-513 5/8"
- 330-514 3/4"
- 330-515 7/8"
- 330-516 1"
- 330-517 1 1/8"
- 330-518 1 1/4"
- 330-519 1 1/2"



330-517

**Curved / 9 1/2" (24.1 cm)**

- 330-530 1/4"
- 330-531 3/8"
- 330-532 1/2"
- 330-533 5/8"
- 330-534 3/4"
- 330-535 7/8"
- 330-536 1"
- 330-537 1 1/8"
- 330-538 1 1/4"
- 330-539 1 1/2"

**Sontec Chisel**

**Curved / 7 1/4" (18.4 cm)**

- 330-460 7 mm



330-460

**Straight / 7 1/4" (18.4 cm)**

- 330-462 6 mm
- 330-464 8 mm
- 330-466 10 mm
- 330-468 12 mm
- 330-470 16 mm
- 330-472 22 mm



330-464



330-466



330-468



330-470



330-472



 Sontec Instruments®

Orthopedic OSTEOTOMES

**Smith Peterson Osteotome**

**Straight / 8" (20.5 cm)**

330-610	1/4"
330-611	3/8"
330-612	1/2"
330-613	5/8"
330-614	3/4"
330-615	1"
330-616	1 1/4"



330-611



330-612

**Smith Peterson Osteotome**

**Curved / 8" (20.5 cm)**

330-620	1/4"
330-621	3/8"
330-622	1/2"
330-623	5/8"
330-624	3/4"
330-625	1"
330-626	1 1/4"



330-621



330-623



330-624



330-625



330-626

**Hibbs Osteotome**

**Straight / 9 1/2" (24 cm)**

- 330-550 1/4"
- 330-551 3/8"
- 330-552 1/2"
- 330-553 5/8"
- 330-554 3/4"
- 330-555 7/8"
- 330-556 1"
- 330-557 1 1/8"
- 330-558 1 1/4"
- 330-559 1 1/2"

**Curved / 9 1/2" (24 cm)**

- 330-570 1/4"
- 330-571 3/8"
- 330-572 1/2"
- 330-573 5/8"
- 330-574 3/4"
- 330-575 7/8"
- 330-576 1"
- 330-577 1 1/8"
- 330-578 1 1/4"
- 330-579 1 1/2"

330-550



330-551



330-552



330-553



330-571



330-572



330-573



**Lambotte Osteotome**

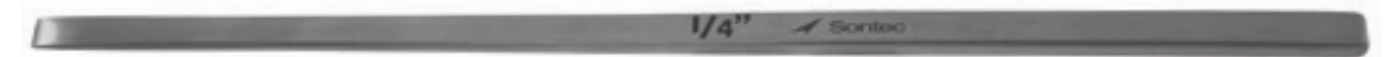
**Straight / 9" (23 cm)**

- 330-660 1/4" (6 mm)
- 330-661 1/2" (13 mm)
- 330-662 3/4" (19 mm)
- 330-663 1" (25 mm)
- 330-664 1 1/4" (32 mm)
- 330-665 1 1/2" (38 mm)

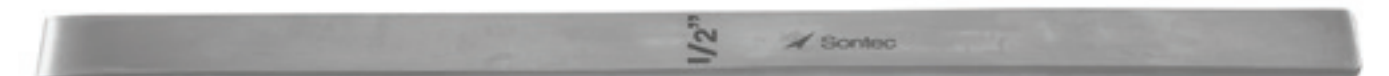
**Curved / 9" (23 cm)**

- 330-670 1/4" (6 mm)
- 330-671 1/2" (13 mm)
- 330-672 3/4" (19 mm)
- 330-673 1" (25 mm)
- 330-674 1 1/4" (32 mm)
- 330-675 1 1/2" (38 mm)

330-660



330-661



330-662



330-665



330-670



330-671



**West Osteotome**

**Square handle**

330-708	4 mm	6 1/2" (16.5 cm)
330-708A	6 mm	7 1/2" (19 cm)



**Hand Surgery Osteotome**

**Straight / 5" (13 cm)**

1103-281	3/32" (2 mm)
1103-280	1/8" (3 mm)
1103-282	5/32" (4 mm)
1103-283	1/4" (6 mm)
1103-284	5/16" (8 mm)
1103-285	13/32" (10 mm)
1103-286	15/32" (12 mm)
1103-287	9/16" (14 mm)
1103-288	19/32" (15 mm)
1103-289	3/4" (19 mm)
1103-291	5/8" (16 mm)
1103-292	11/16" (18 mm)
1103-293	13/16" (20 mm)



**Curved / 5" (13 cm)**

1103-281C	3/32" (2 mm)
1103-280C	1/8" (3 mm)
1103-282C	5/32" (4 mm)
1103-283C	1/4" (6 mm)
1103-284C	5/16" (8 mm)
1103-285C	13/32" (10 mm)
1103-286C	15/32" (12 mm)
1103-287C	9/16" (14 mm)
1103-288C	19/32" (15 mm)
1103-289C	3/4" (19 mm)
1103-291C	5/8" (16 mm)
1103-292C	11/16" (18 mm)
1103-293C	13/16" (20 mm)

**Sheehan Osteotome**

**6 1/4" (16 cm)**

330-882	2 mm
330-883	3 mm
330-884	4 mm
330-885	5 mm
330-886	6 mm
330-887	7 mm
330-888	8 mm
330-889	9 mm
330-890	10 mm
330-891	11 mm
330-892	12 mm
330-895	15 mm



**Hoke Osteotome**

**Hex handle / straight / 5" (12.5 cm)**

330-690	1/8" (3 mm)
330-691	3/16" (4 mm)
330-692	1/4" (6 mm)
330-693	5/16" (8 mm)
330-694	3/8" (10 mm)
330-695	1/2" (13 mm)
330-696	5/8" (16 mm)



**Curved / 5" (12.5 cm)**

330-700	1/8" (3 mm)
330-701	3/16" (4 mm)
330-702	1/4" (6 mm)
330-703	5/16" (8 mm)
330-704	3/8" (10 mm)
330-705	1/2" (13 mm)
330-706	5/8" (16 mm)



**Cottle Plastic Osteotome**

Specially designed edge / heavy type / with end stop platform / with no corners on blade / 7" (18 cm)

- 330-849A 3/32" (2 mm)
- 330-849B 5/32" (4 mm)
- 330-849C 9/32" (7 mm)
- 330-849D 11/32" (9 mm)
- 330-849E 15/32" (12 mm)



330-849A



330-849B



330-849C



330-849D



330-849E

**Stille Osteotome**

Hexagonal handle / 8" (20.5 cm)

- 330-730 13/32" (10 mm)
- 330-731 9/16" (14 mm)
- 330-732 23/32" (18 mm)
- 330-733 7/8" (22 mm)



330-730



330-731



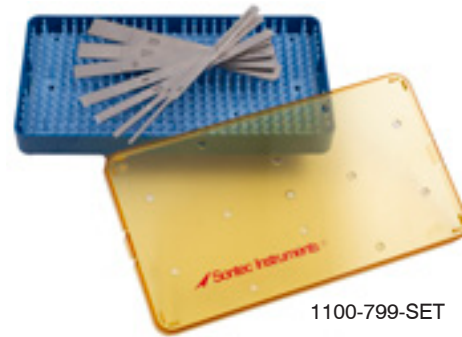
330-733

**Hardt Micro Cartilage Osteotome Set (with tray)**

**5 1/8" (13.25 cm)**

330-799-SET includes:

- 330-801M 3/32" (2 mm)
- 330-802M 5/32" (4 mm)
- 330-803M 1/4" (6 mm)
- 330-804M 5/16" (8 mm)
- 330-805M 13/32" (10 mm)
- 330-806M 15/32" (12 mm)
- 330-807M 19/32" (15 mm)



1100-799-SET



1100-800M-SET

**6 3/4" (17 cm)**

330-800M-SET includes:

- 330-790M 3/32" (2 mm)
- 330-791M 5/32" (4 mm)
- 330-792M 1/4" (6 mm)
- 330-793M 5/16" (8 mm)
- 330-794M 13/32" (10 mm)
- 330-795M 15/32" (12 mm)
- 330-796M 19/32" (15 mm)

1103-723 7 1/2" x 4" x 3/4" tray with silicone mat, autoclavable

Hardt Osteotomes also available individually



330-801M

330-802M

330-803M

330-804M

330-805M

330-806M

330-807M

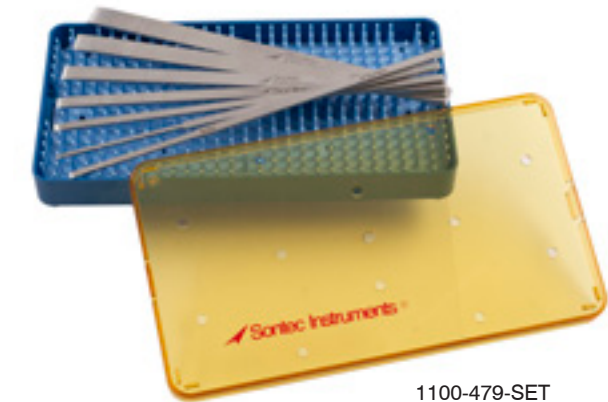
**Sontec-Cottle Osteotome Set**

**Graduated markings / 7" (18 cm)**

1100-479-SET set includes:

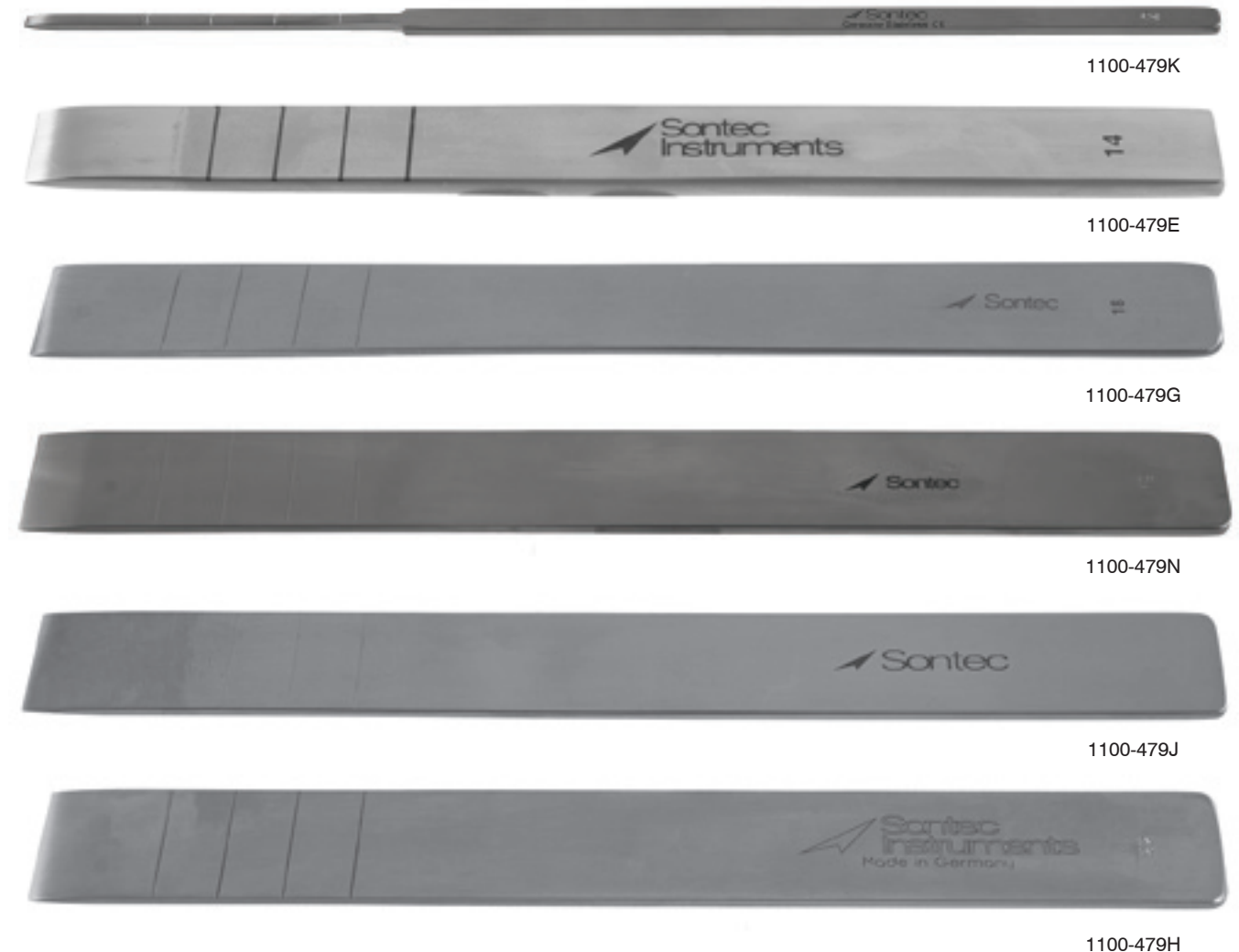
7 osteotomes and tray  
2 mm, 3 mm, 4 mm, 6 mm,  
8 mm, 10 mm, 12 mm

- 1100-479K 2 mm
- 1100-479M 3mm
- 1100-479L 4 mm
- 1100-479A 6 mm
- 1100-479B 8 mm
- 1100-479C 10 mm
- 1100-479D 12 mm
- 1100-479E 14 mm
- 1100-479F 16 mm
- 1100-479G 18 mm
- 1100-479N 19mm
- 1100-479J 20 mm
- 1100-479H 22 mm



1100-479-SET

1103-723 7 1/2" x 4" x 3/4" tray with silicone mat, autoclavable



1100-479K

1100-479E

1100-479G

1100-479N

1100-479J

1100-479H

**Hardt Micro Ceramitec Osteotome**

6 3/4" (17 cm)

- 330-790MB 2 mm
- 330-791MB 4 mm
- 330-792MB 6 mm
- 330-793MB 8 mm
- 330-794MB 10 mm
- 330-795MB 12 mm
- 330-796MB 15 mm



330-791MB

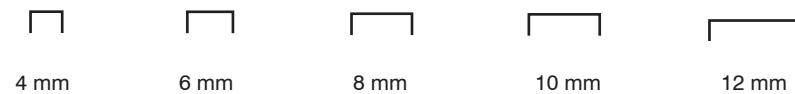


330-792MB

**Mini Lexer Osteotome**

Small handle / 7" (18 cm)

- 330-001 4 mm tip
- 330-002 6 mm tip
- 330-003 8 mm tip
- 330-004 10 mm tip
- 330-005 12 mm tip



330-005

**Lexer Osteotome**

Large handle / 8 3/4" (22.5 cm)

- 330-010 7 mm tip
- 330-011 10 mm tip
- 330-012 15 mm tip
- 330-013 20 mm tip
- 330-014 25 mm tip
- 330-015 30 mm tip



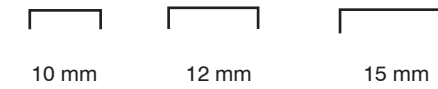
330-015



**Lexer Osteotome**

Large handle / 12" (30.5 cm)

- 330-016 10 mm tip
- 330-017 12 mm tip
- 330-018 15 mm tip



330-016

**Obwegeser Split Osteotome**

8 3/4" (22.5 cm)

- 330-120 8 mm tip
- 330-125 12 mm tip
- 330-130 16 mm tip
- 330-135 20 mm tip



330-130

**Obwegeser Wedge Osteotome**

8 3/4" (22.5 cm)

- 330-100 8 mm tip
- 330-105 12 mm tip
- 330-110 16 mm tip



330-100



 Sontec Instruments®

Orthopedic MALLETS

**Sontec Combo Nylon Mallet**

1" head diameter / removable heads / 7 3/8" (18.75 cm)

1100-462S deluxe mallet with one nylon head

**Sold separately**

1100-462SH stainless steel head for deluxe mallet

1100-463S nylon head for deluxe mallet



1100-462S



1100-462SH



1100-463S

**Sontec Double Nylon Mallet**

Light-weight / 7 3/8" (18.7 cm) / 7 oz.

330-808



**Sontec Micro Mallet**

3/4" head diameter / 6 1/2" (16.5 cm)

330-817 stainless steel convex/flat combo 4 oz.

330-819 lead filled head no recoil 5.6 oz.



330-819

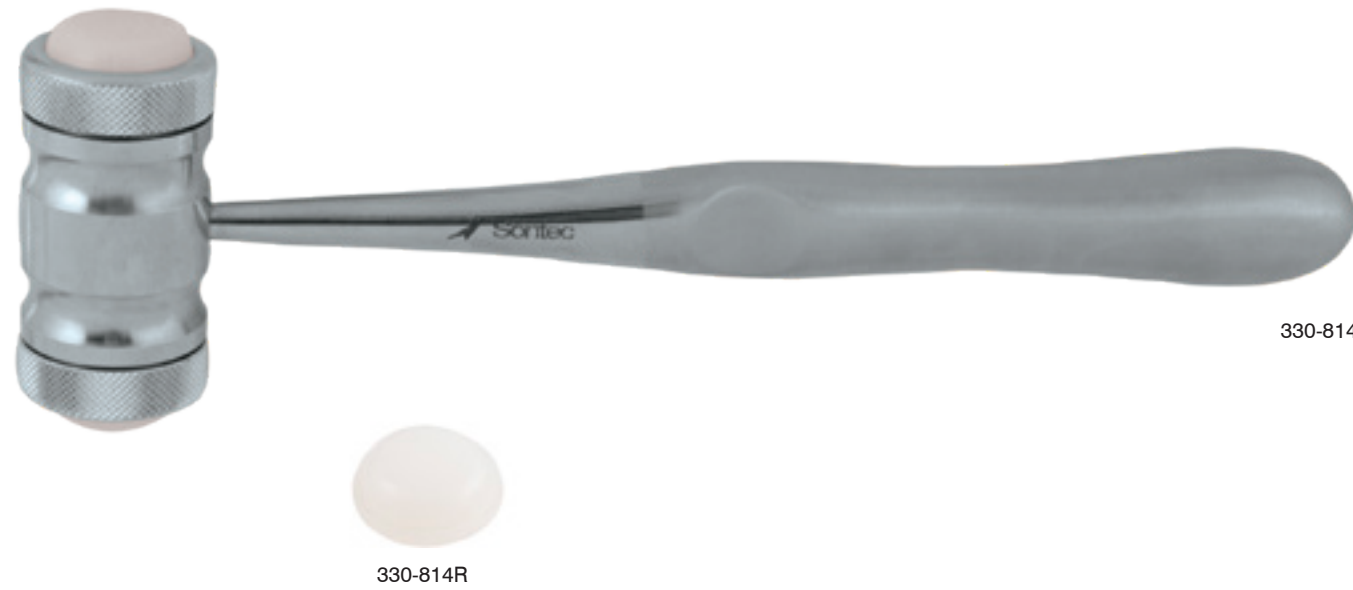
**Mead Mallet**

3/4" head diameter / 7 1/2" (19 cm) / 8 oz. head  
/ w/replacement nylon caps

330-814

**Replacement caps**

330-814R



**Brass Head Mallet**

7 3/4" (20 cm)

330-811



**Large Sontec Combo Mallet**

1 1/2" head / replaceable heads / 8" (20.5 cm)

330-824

330-824S stainless & nylon head

**Replaceable heads / 1 1/2" (3.8 cm)**

330-824NH nylon

330-824SH stainless steel



330-824NH

330-824SH



330-824

**Cottle Mallet**

Convex flat combo / 7 1/2" (19.1 cm)

1100-461S stainless steel head



1100-461S

**Collin Lucae Mallet**

Solid head / 210 grams /  
30mm Ø / 8 1/4" (21 cm)

330-818



330-818

**USA Model Mallet**

1" diameter / 1 lb USA model / 7 1/4" (18.4 cm)

330-833



**Sontec Large Mallet**

10 3/4" (26.5 cm)

330-835 1 pound (450 g)  
330-834 2 pounds (900 g)



330-835



330-834

**Heavyweight Mallet**

1 1/2" head diameter / 7 1/4" (18.5 cm)  
330-832 1.72 lbs



330-832

**AO Type Mallet**

Fenestrated handle / AO type / 9" (23 cm)  
330-839



330-839

**Sontec Large Handle Mallet**

**Ribbed phenolic handle**  
330-840 10 1/4" (26 cm) 1 3/4" head dia. 3 lbs  
330-842 10 1/4" (26 cm) 1 1/4" head dia.



330-840

**Sontec Large Handle Mallet**

**Ergonomic phenolic handle / 1 1/4" head diameter**  
330-841 8 3/4" (22 cm)



330-841

**No Recoil Mallet**

**One sided nylon head / no recoil**

330-823 9 3/4" (25 cm) 500 g 35mm diameter head  
 330-827 9" (23cm) 300 g 27mm diameter head



330-823



330-827

**Phenolic Spinal Mallet**

**10 1/4" (26.5 cm)**

330-844 35 mm 150 g  
 330-845 45 mm 240 g  
 330-846 50 mm 330 g

**9 1/2" (24 cm) / Steinbach style**

330-847 60 mm 400 g



330-844



330-847



 Sontec Instruments®

Orthopedic MENISCOTOMES & KNIVES

**Femoral Head Disarticulator Knife**

**Curved**

1103-211 Small 5 1/2" (14 cm)  
1103-213 Large 7 1/2" (19 cm)



1103-211



1103-213

**V Blade Meniscotome**

**Flat handle / 6 3/4" (17 cm)**

1103-206

**Curved / 8" (20.5 cm)**

1103-209



1103-206

**Mini V-Blade Meniscotome**

**Flat handle / 6 3/4" (17 cm)**

1103-2063 3mm



1103-2063

**Foerner Sesamoid Knife Elevator**

**Single end / curved / 5 mm tip**

1404-875 6 1/4" (16 cm)

1404-875L 7 1/4" (18.4 cm) heavy



1404-875



1404-875L

**Rosin Root Meniscotome**

Curved "V" blade / 6 1/4" (16 cm)  
350-836



350-836

**Piermattei Smillie Meniscotome**

6 3/4" (17 cm)  
1103-205



1103-205

**Smillie Meniscotome**

Straight blade / 6 3/4" (17 cm)  
1103-208



1103-208

**Smillie Meniscus Knife**

Curved / "V" tip / 8" (20.3 cm)  
350-838



350-838

**Braake Tendon Knife**

Angled down / carbon coated  
shaft / 7" (18 cm)  
1271-183



1271-183

**Nixon XXL Banana Knife**

Double sided / wide blade / serrated / 9" (23 cm)  
1271-139C curved  
1271-139D straight



1271-139C



1271-139D



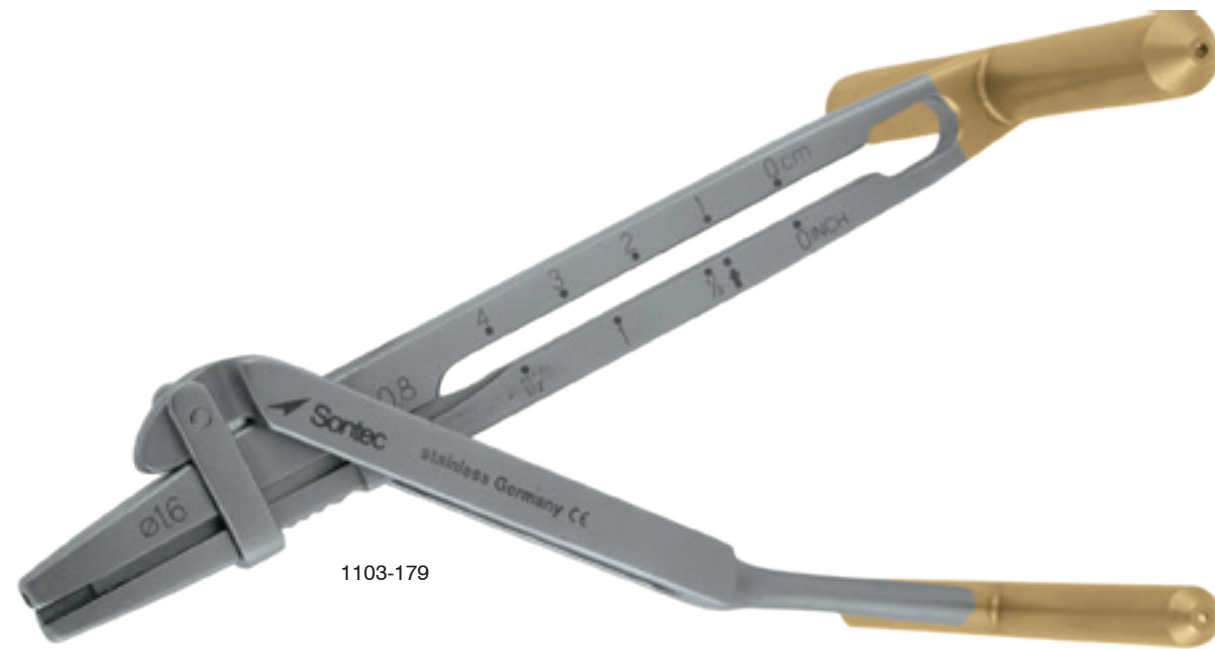
 Sontec Instruments®

Orthopedic PIN-PULLERS, DRIVERS & BENDERS

**Vickers Easy Driver / Bender / Puller**

To drive, bend & pull K-wire / 5 1/2" (14 cm)

1103-179



1103-179

**Black Vickers K-Wire Pin Bender**

3 1/2" (9 cm)

1103-178A 1 mm Ø (0.035") x 1.2 mm Ø (0.045")

1103-178C 1.4 mm Ø (0.054") x 1.6 mm Ø (0.062")



1103-178A



1103-178C

**Pin Driver & Bone Tamp**

Single-ended flat tip with 1 mm raised circular lip / 3 1/2" (9 cm) in length

1103-2011 1.5 mm tip

1103-201A 2 mm tip

1103-201B 3 mm tip

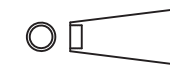
1103-201C 4 mm tip

1103-201D 5 mm tip

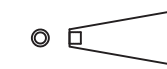
1103-201E 6 mm tip

1103-201F 8 mm tip

1103-201G 10 mm tip



1103-201A



1103-2011



1103-201D



1103-201B

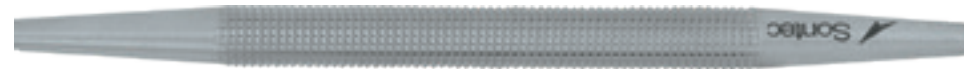


1103-201C

**Sontec Pin Driver / Bender**

Bends K-wire and pins

- 1103-201 2 mm / 2.3 mm 5" (13 cm)
- 1106-199 2 mm / 3.2 mm 6" (15.5 cm)



1103-201



1106-199

**Peterson Fully Cannulated Pin Bender**

Double-ended with concave tips / specially cannulated through entire length for better leverage

- 1103-201J 2 mm tip / 2.3 mm tip 5" (13 cm)
- 1103-201H 2 mm tip / 3.2 mm tip 5 3/4" (14 cm)



1103-201J



1103-201H

**Pin Bender Double-Ended**

Bends K-wire / 4 1/2" (11.5 cm)

- 1106-196 1.6 mm tip / 2.0 mm tip
- 1106-198 0.8 mm tip / 1.25 mm tip



1106-196



1106-198

**Pin Bender Double-Ended**

Bends K-wire / 0.9 mm (0.035") / 1.6 mm (0.062") / 1.1 mm (0.045") / 1.4 mm (0.054") / 4 1/2" (11.5 cm)

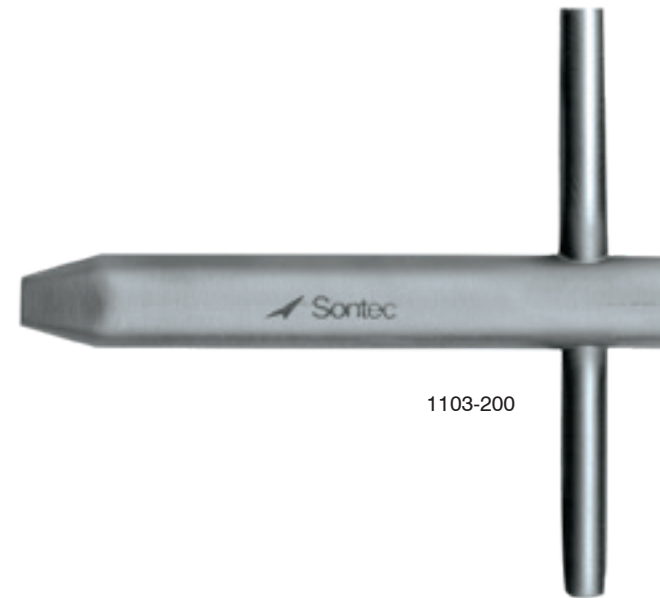
- 1106-206



1106-206

**Piermattei Pin Bender / Driver**

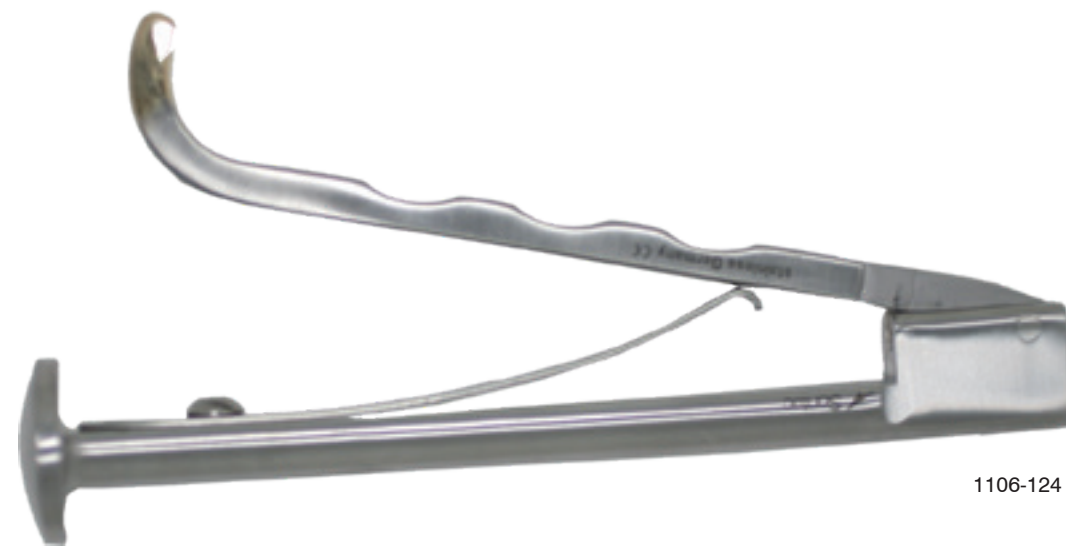
3 1/2" (9 cm)  
1103-200



1103-200

**Steinman Pin Puller**

Pulls pins from 1/8" (3.2 mm)  
/ 5 1/2" (14 cm)  
1106-124



1106-124

**Parallel Wire Extraction Pliers**

Cuts wire up to 1.6 mm MAX

- 1103-125 4 1/2" (11.5 cm) with TC cutter
- 1103-126 6 1/2" (16.5 cm) with TC cutter
- 1103-126R 6 1/2" (16.5 cm) with TC cutter rainbow
- 1103-127 7 1/4" (18.5 cm) with TC cutter
- 1103-127A 7 1/2" (19 cm) without TC cutter



1103-125



1103-127



1103-127A

**Pin Pulling Double Action Pliers**

TC serrated / double-action / 7" (18 cm)

- 1100-533 2 mm
- 1100-533A 3 mm
- 1100-532 4 mm
- 1100-536 6 mm



**Pin Puller**

Grooved serrated jaws / with adjustable screw

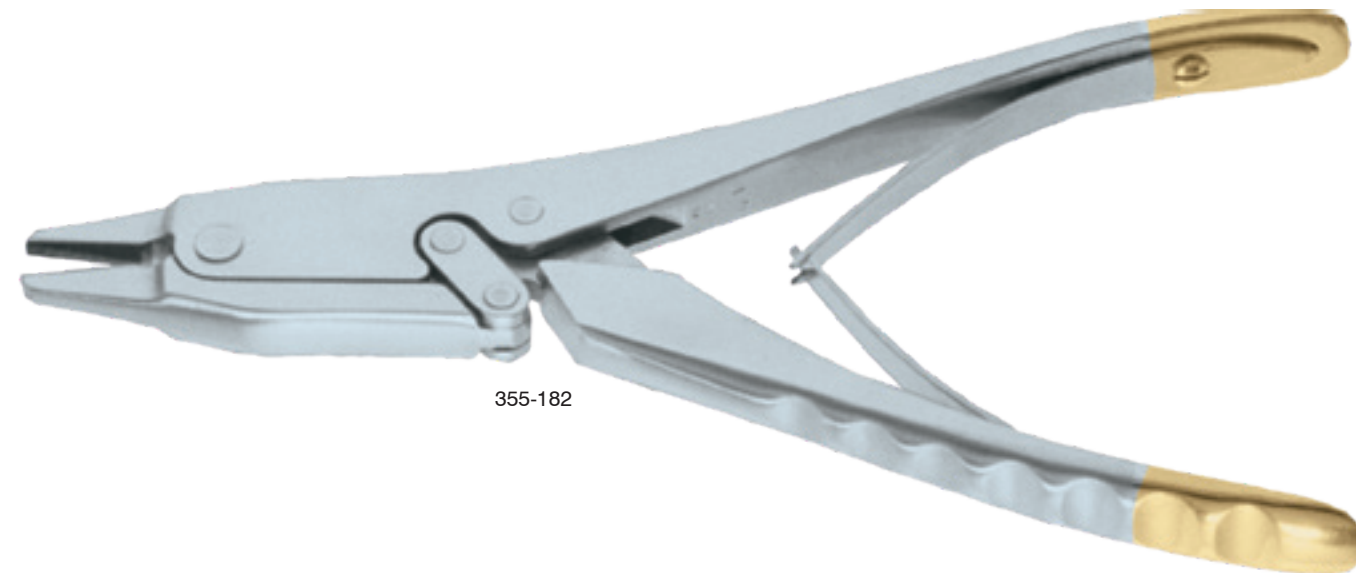
- 1103-122 5 1/2"
- 1103-123 7"



**HERCULES® GRIP Pin Puller**

Over 40% less power required / 7" (18 cm)

- 355-182 3 mm
- 355-183 6 mm





 Sontec Instruments®

Orthopedic PLATE BENDERS & BENDING IRONS

**Mini Plate Bending Iron**

Small plates / bends plates 1.5 and smaller / 4 3/4" (12 cm)

1106-197



1106-197

**Small Plate Bending Iron**

Used in pairs / 5 1/2" (14 cm)

1106-200 bends plates 2.7 mm  
1106-205 bends plates 3.5 mm



1106-200



1106-205

**Standard Plate Bending Iron**

Bends standard plates / with four rod holes / 9 1/2" (24 cm)

1106-210



1106-210

**Plate Bending Iron**

Bends plates laterally / 2.7 mm contours plates / use in pairs / 6 1/4" (16 cm)

1106-207



1106-207

**Plate Bending Iron Lateral & Contour**

Bends plates 3.5 mm & 4.5 mm / 7 1/2" (19 cm)

1106-212



1106-212

**Plate Bending Pliers**

Rotatable anvil

355-244 10" (25 cm)



355-244

**Plate Bending Table Top Press**

Bends plates up to 6 mm / rotatable anvil / 17" (43 cm) in length

1106-185



1106-185

**Lateral Plate Bending Pliers**

Bends 2.7 mm x 3.5 mm / contours plates /  
10 1/4 (26 cm)

355-245



355-245

**Whale Nose Plate Bending Pliers**

Bends small plates up to 2.7 mm / 7 3/4" (19.5 cm)  
355-230

Bends large plates up to 3.5 mm / 9 1/2" (24 cm)  
355-235



**AO Type Bending Pliers Set**

For straight plates / with 2 anvils / 10" (25.4 cm)  
/ comes with 355-236N & 355-236B  
355-236-SET

**Plates for Bending Pliers**

- 355-236A for small plates
- 355-236B for broad plates
- 355-236N for narrow plates



355-236A



355-236B



355-236N





 Sontec Instruments®

Orthopedic RETRACTORS

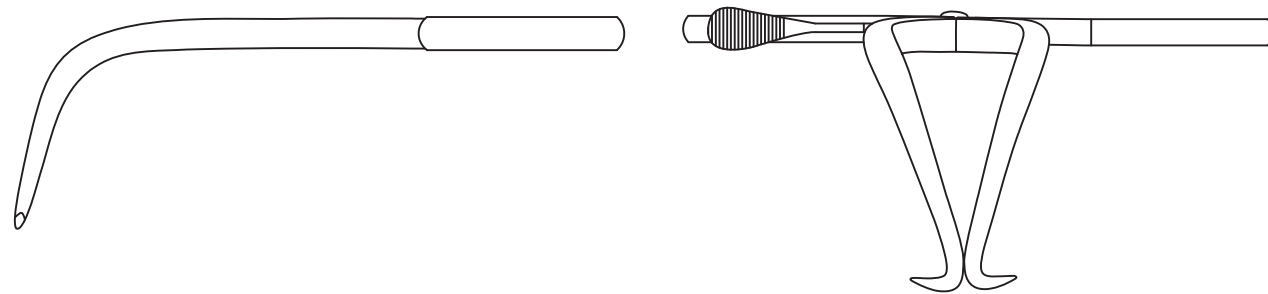
**Gelpi Deep Angle Retractor**

- 1100-629A 3 1/2"(9 cm)
- 1100-628A 4 1/2"(11.5 cm)
- 1100-628C 5 1/2"(14 cm)
- 1100-631 6 3/4"(17.5 cm)
- 1100-631S 6 3/4"(17.5 cm)
- 4.5 mm prong 3 cm deep
- 1100-631A 7 1/2"(19 cm)
- 1100-631B 8" (20 cm)

\* Custom blunt or shortened tips available upon request



1100-628C

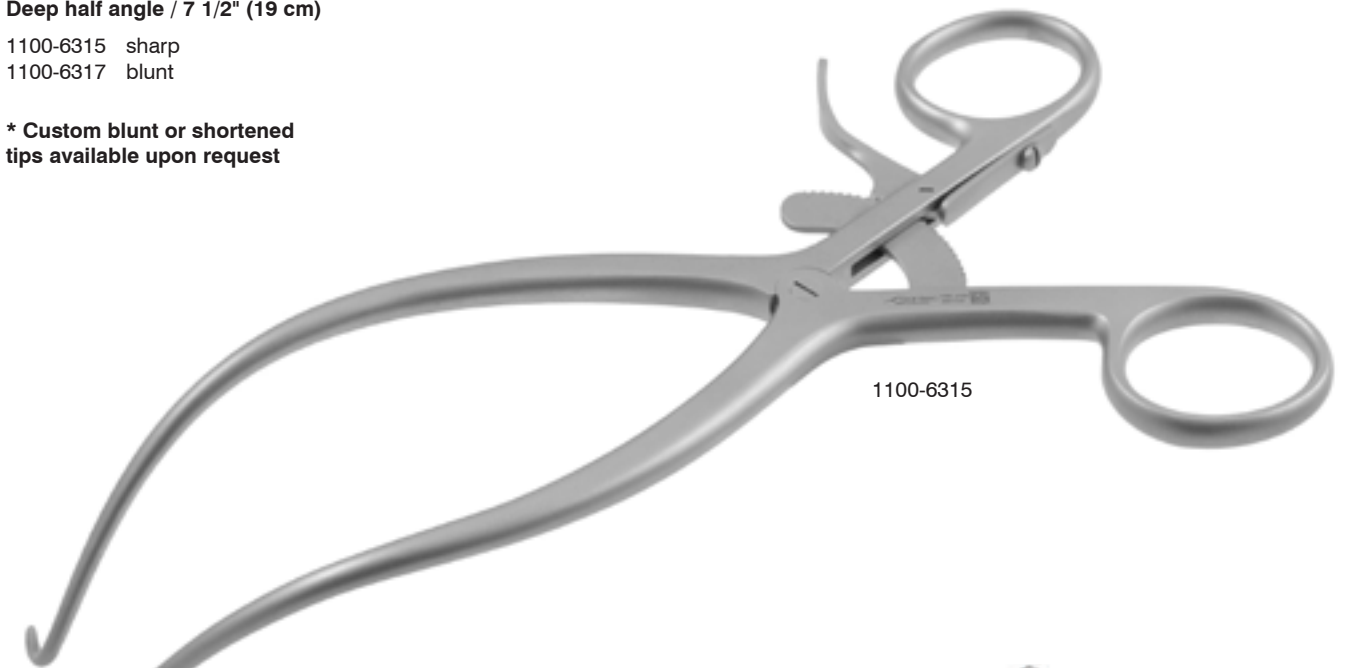


**Gelpi Retractor**

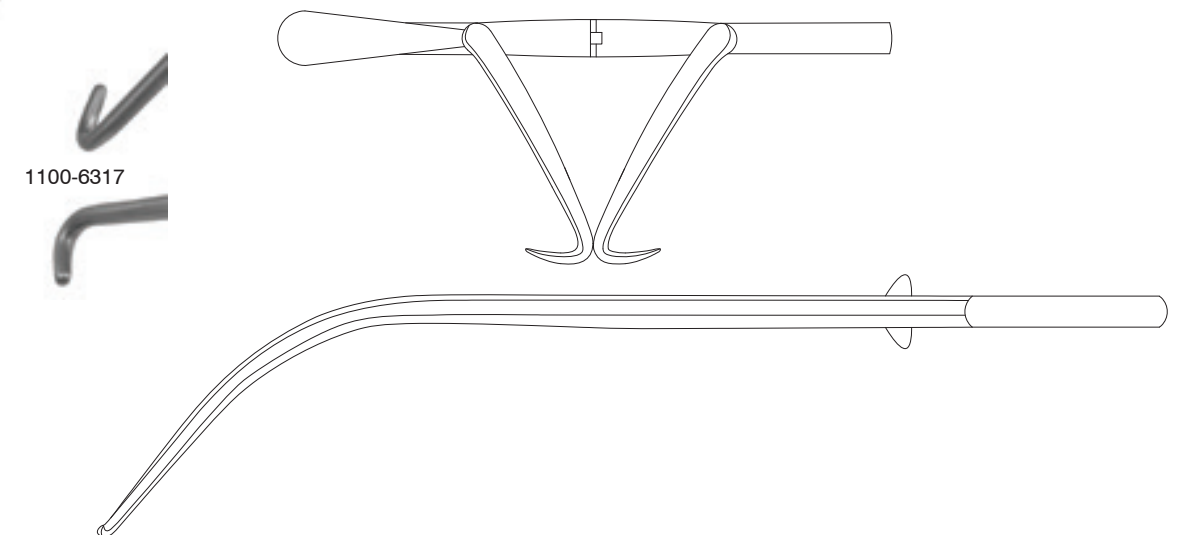
Deep half angle / 7 1/2" (19 cm)

- 1100-6315 sharp
- 1100-6317 blunt

\* Custom blunt or shortened tips available upon request



1100-6315



1100-6317

**Gelpi Neroma (Crossover) Retractor**

1100-633A	4 1/2" (11.5 cm)	
1100-633B	3 1/2" (9 cm)	
1100-633	5 1/2" (14 cm)	
1100-633C	6 1/2" (16.5 cm)	
1100-633D	7 1/2" (19 cm)	
1100-633E	3 1/2" (9 cm)	heavy

**Enclosed ratchet version**

1100-633BR	3 1/2" (9 cm)
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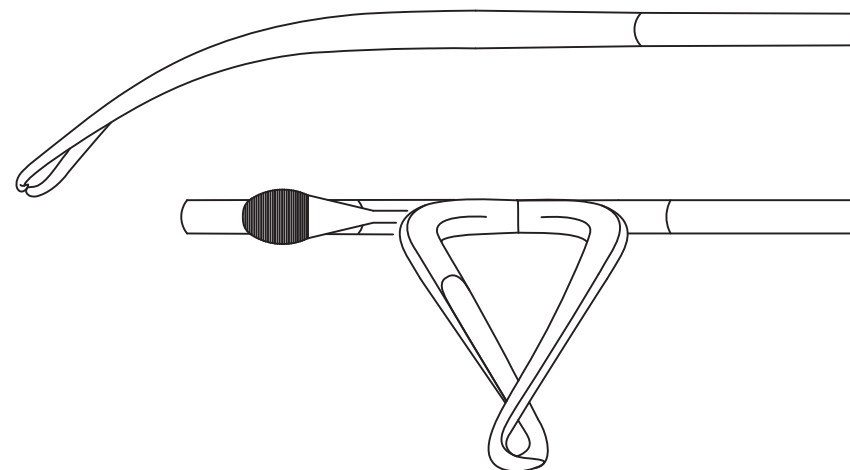
\* Custom blunt or shortened tips available upon request



enclosed ratched



1100-633A



**Gelpi Deep Angle Neroma (Crossover) Retractor**

**Deep angle**

1100-633H	3 1/2" (9 cm)
1100-633G	4 1/2" (11.5 cm)
1100-633F	5 1/2" (14 cm)
1100-633I	6 1/2" (16.5 cm)
1100-632R	6 3/4" (17.5 cm)
1100-630N	7 1/2" (19 cm)
1100-631N	8" (20 cm)

**Enclosed ratchet / deep angle**

1100-633HR	3 1/2" (9 cm)
1100-633GR	4 1/2" (11.5 cm)
1100-633FR	5 1/2" (14 cm)

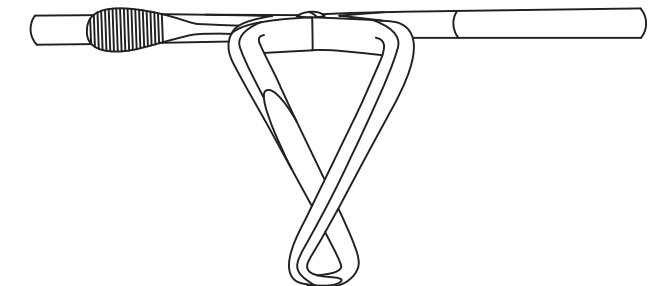
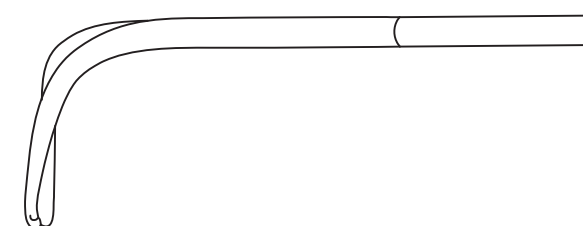
\* Custom blunt or shortened tips available upon request



enclosed ratched



1100-633G

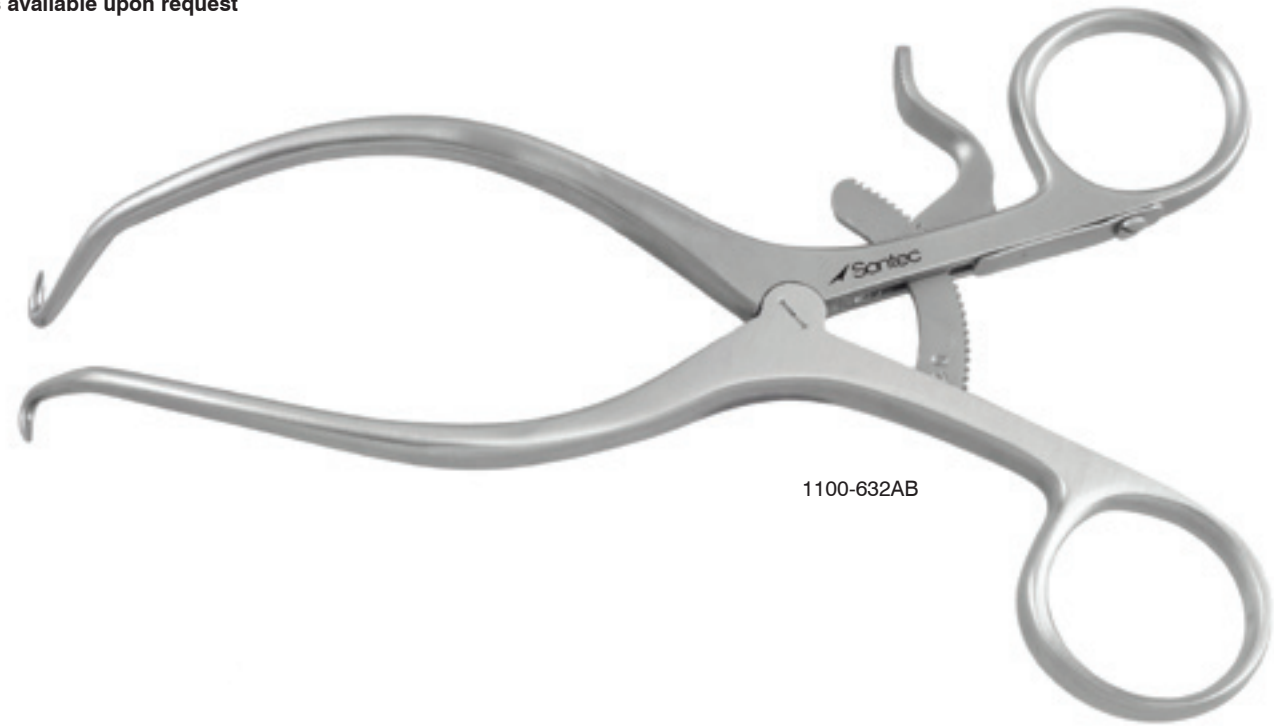


**Gelpi Classic Retractor**

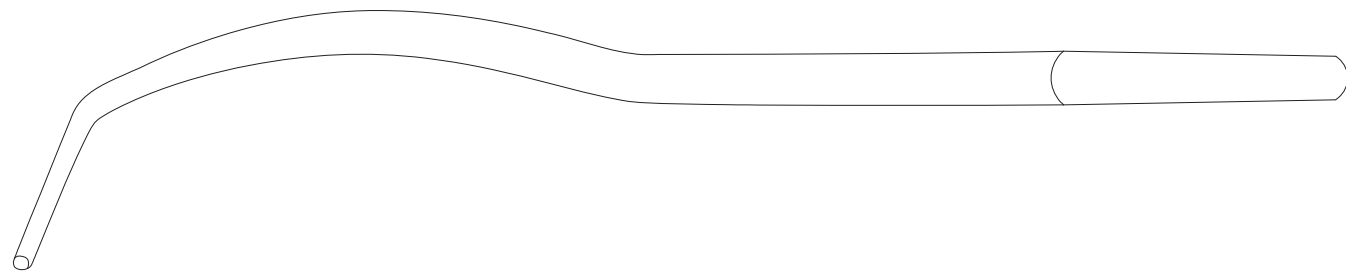
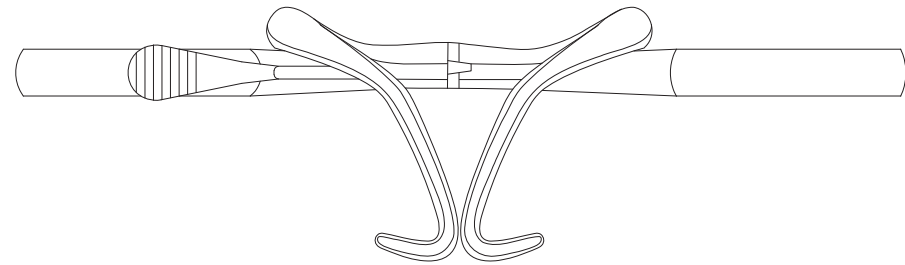
2 cm across / angle medium blunt tips / 6" (15.2 cm)

1100-632AB

\* Custom blunt or shortened tips available upon request



1100-632AB

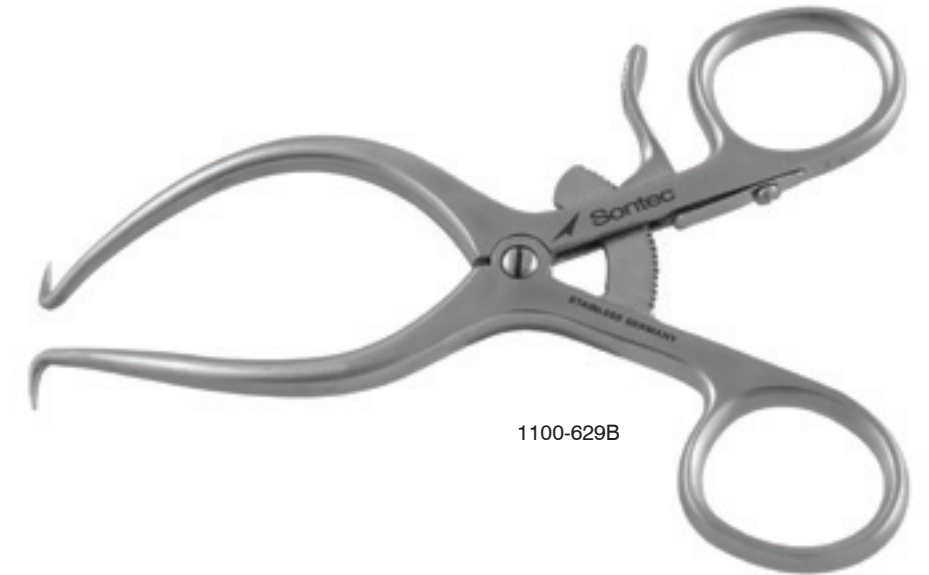


**Gelpi Classic Retractor**

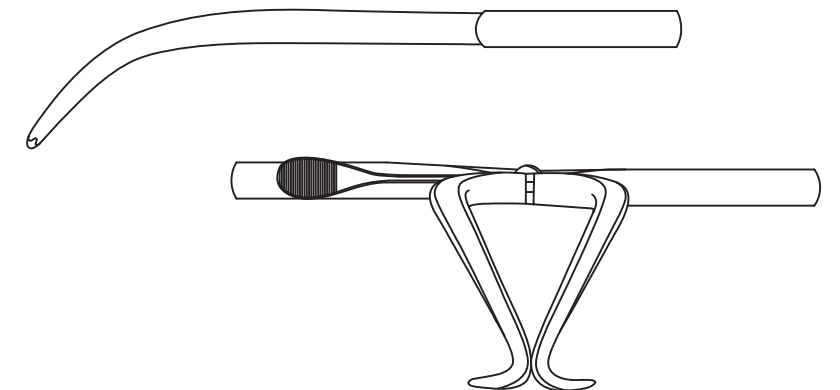
**Standard**

1100-629	3 1/2" (9 cm)	micro
1100-629L	3 1/2" (9 cm)	lightweight
1100-628	3 3/4" (9.5 cm)	heavy
1100-629B	4 1/2" (11.5 cm)	
1100-6280	4 1/2" (11.5 cm)	heavy
1100-628B	5 1/2" (14 cm)	
1100-632	6 1/2" (16.5 cm)	
1100-630	7 1/2" (19 cm)	
1100-630A	8" (20 cm)	

\* Custom blunt or shortened tips available upon request



1100-629B



**Gelpi Retractor**

Enclosed ratchet / 7 1/2" (19.1 cm)

1100-630ER

\* Custom blunt or shortened tips available upon request



1100-630ER



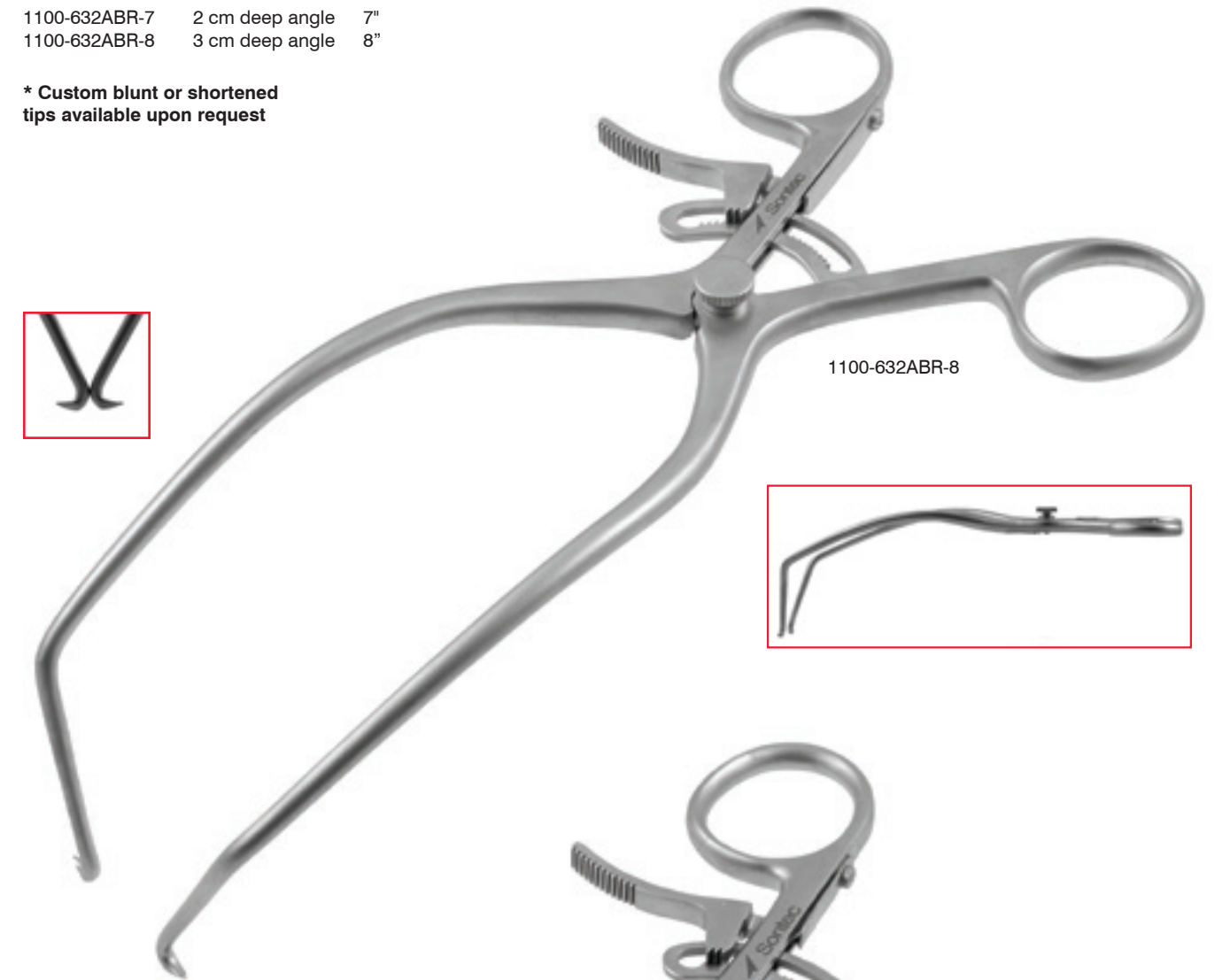
**Gelpi Retractor**

Angle medium blunt tips / with enclosed ratchet

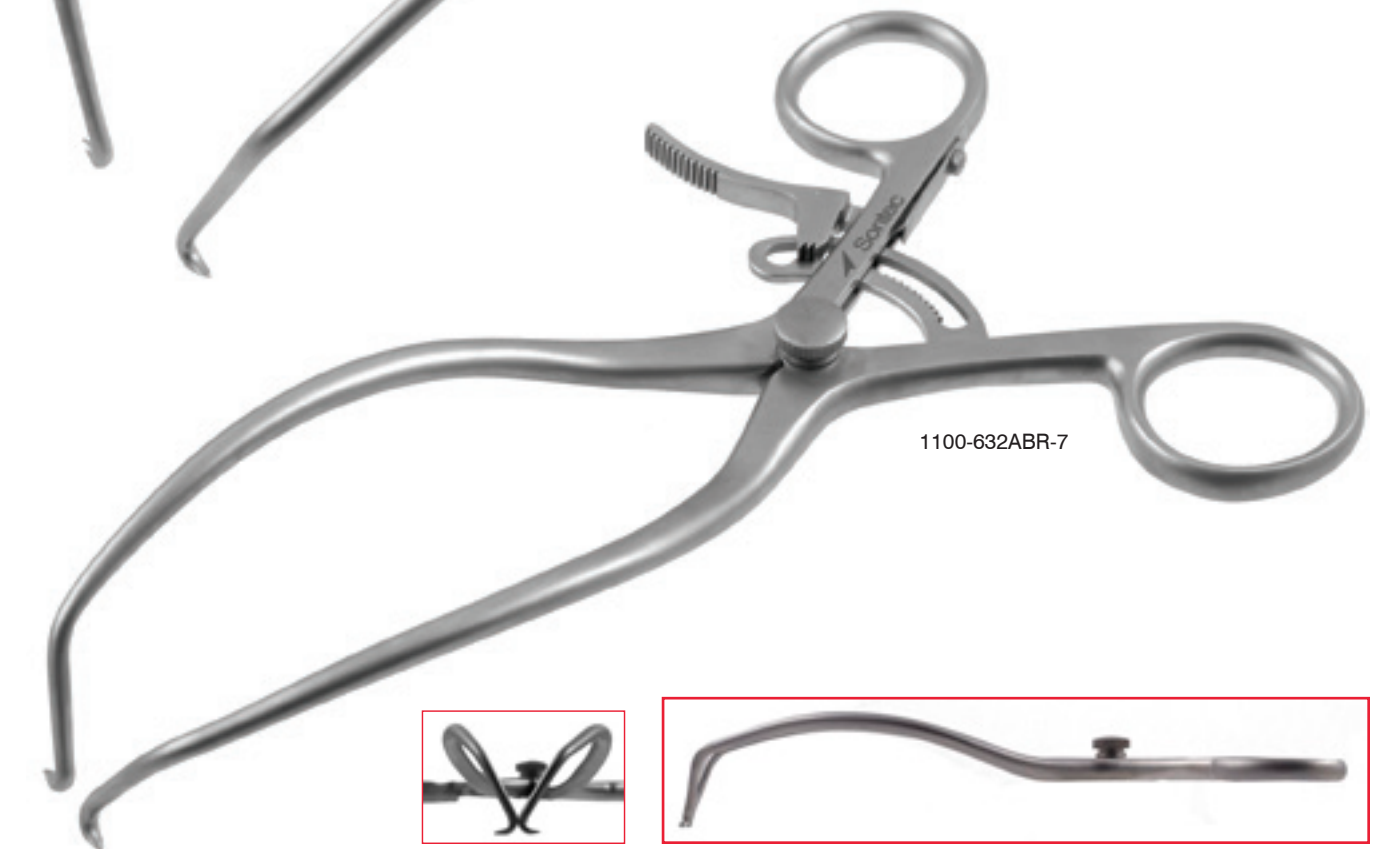
1100-632ABR-7 2 cm deep angle 7"

1100-632ABR-8 3 cm deep angle 8"

\* Custom blunt or shortened tips available upon request



1100-632ABR-8



1100-632ABR-7



**Gelpi 1st Generation Deep Angle Retractor**

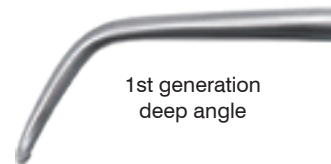
**Original deep angle**

1100-629G	3 1/2" (9 cm)
1100-628G	4 1/2" (11.5 cm)
1100-632G	5 1/2" (14 cm)
1100-631G	6 1/2" (16.5 cm)
1100-630G	7 1/2" (19 cm)

**Original deep angle with enclosed ratchet**

1100-629GR	3 1/2" (9 cm)
1100-628GR	4 1/2" (11.5 cm)
1100-632GR	5 1/2" (14 cm)
1100-631GR	6 1/2" (16.5 cm)
1100-630GR	7 1/2" (19 cm)

\* Custom blunt or shortened tips available upon request



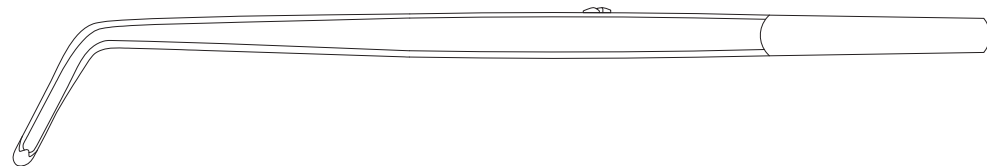
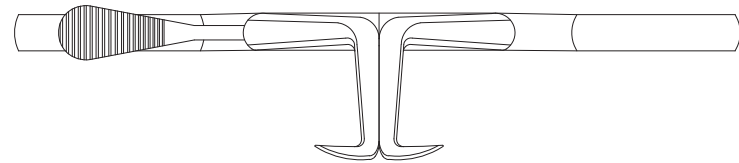
1st generation deep angle



1100-628G



1100-629GR



**Gelpi Offset Arm Left & Right**

**3 1/2"**

1100-6332	left 5/8" (17mm) x 1" (25mm)
1100-6333	right 1" (25mm) x 5/8" (17mm)

**4 1/2"**

1100-6282	left 7/8" (22mm) x 1 1/4" (32mm)
1100-6283	right 1 1/4" (32mm) x 7/8" (22mm)

**5 1/2"**

1100-6292	left 1" (25mm) x 1 1/2" (38mm)
1100-6293	right 1 1/2" (38mm) x 1" (25mm)

**6 1/2"**

1100-6312	left 1 5/8" (42mm) x 2 1/8" (53mm)
1100-6313	right 2 1/8" (53mm) x 1 5/8" (42mm)

**7 1/2"**

1100-6322	left 1 1/4" (32mm) x 2 1/4" (57mm)
1100-6323	right 2 1/4" (57mm) x 1 1/4" (32mm)

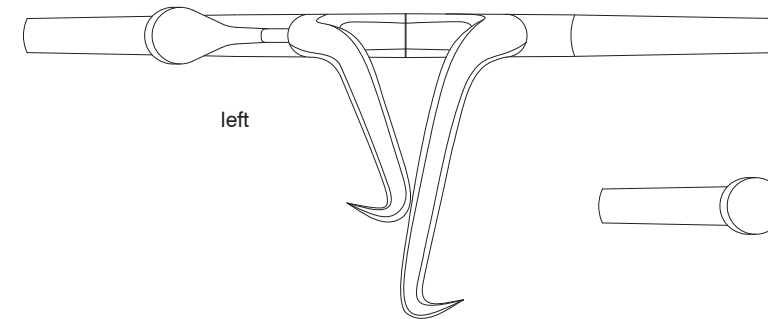
**8"**

1100-6334	left 2" (51mm) x 2 1/2" (67mm)
1100-6335	right 2 1/2" (67mm) x 2" (51mm)

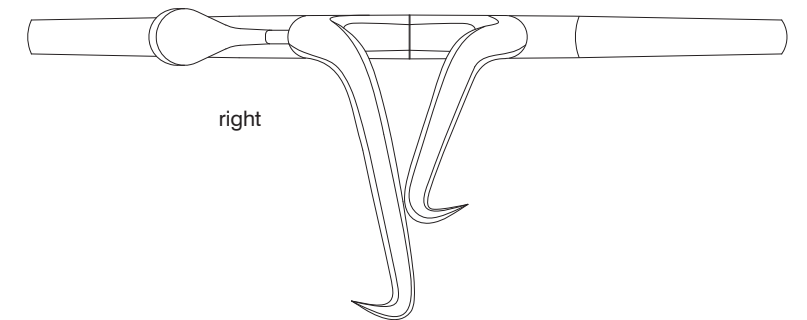
\* Custom blunt or shortened tips available upon request



1100-6322



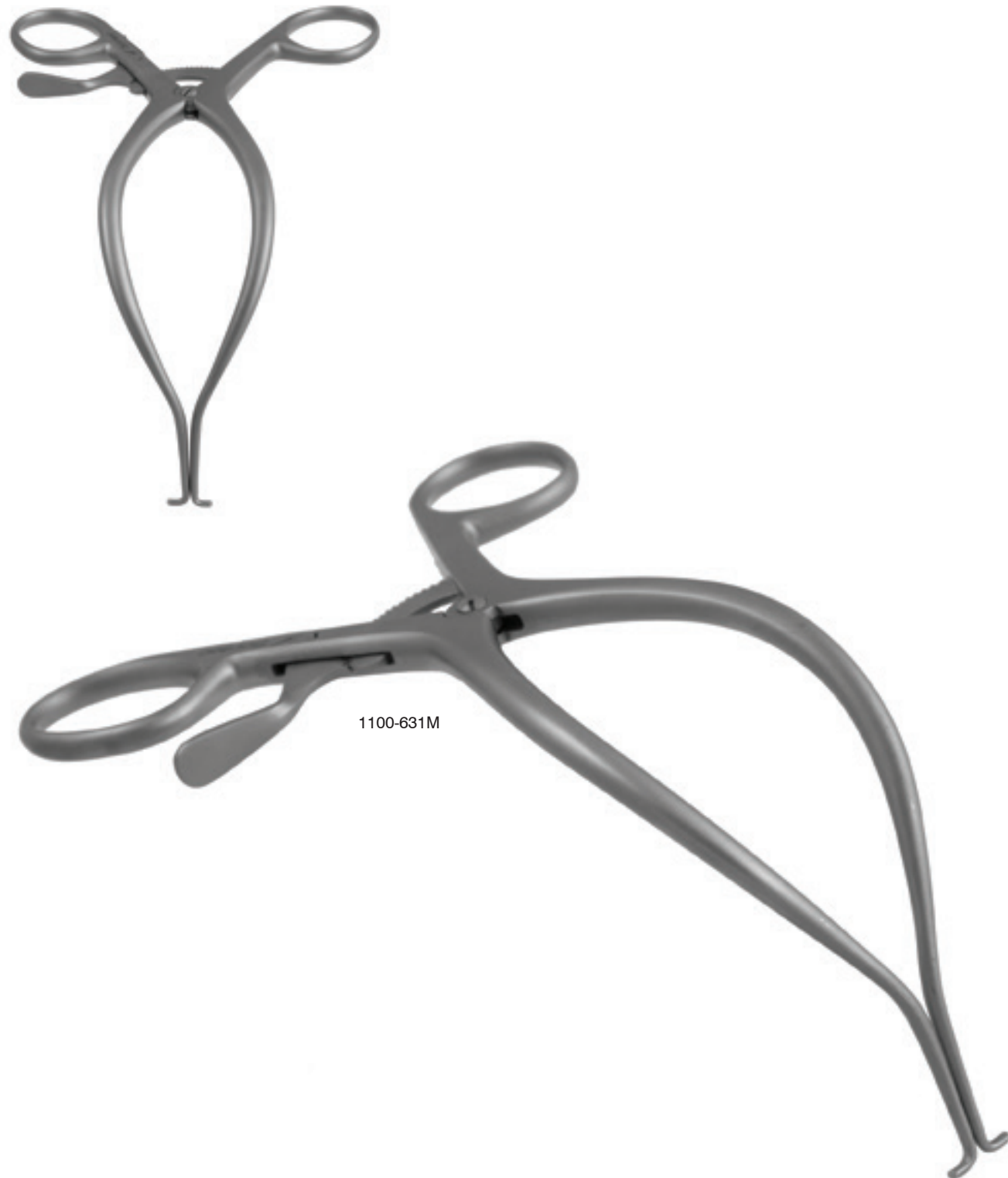
left



right

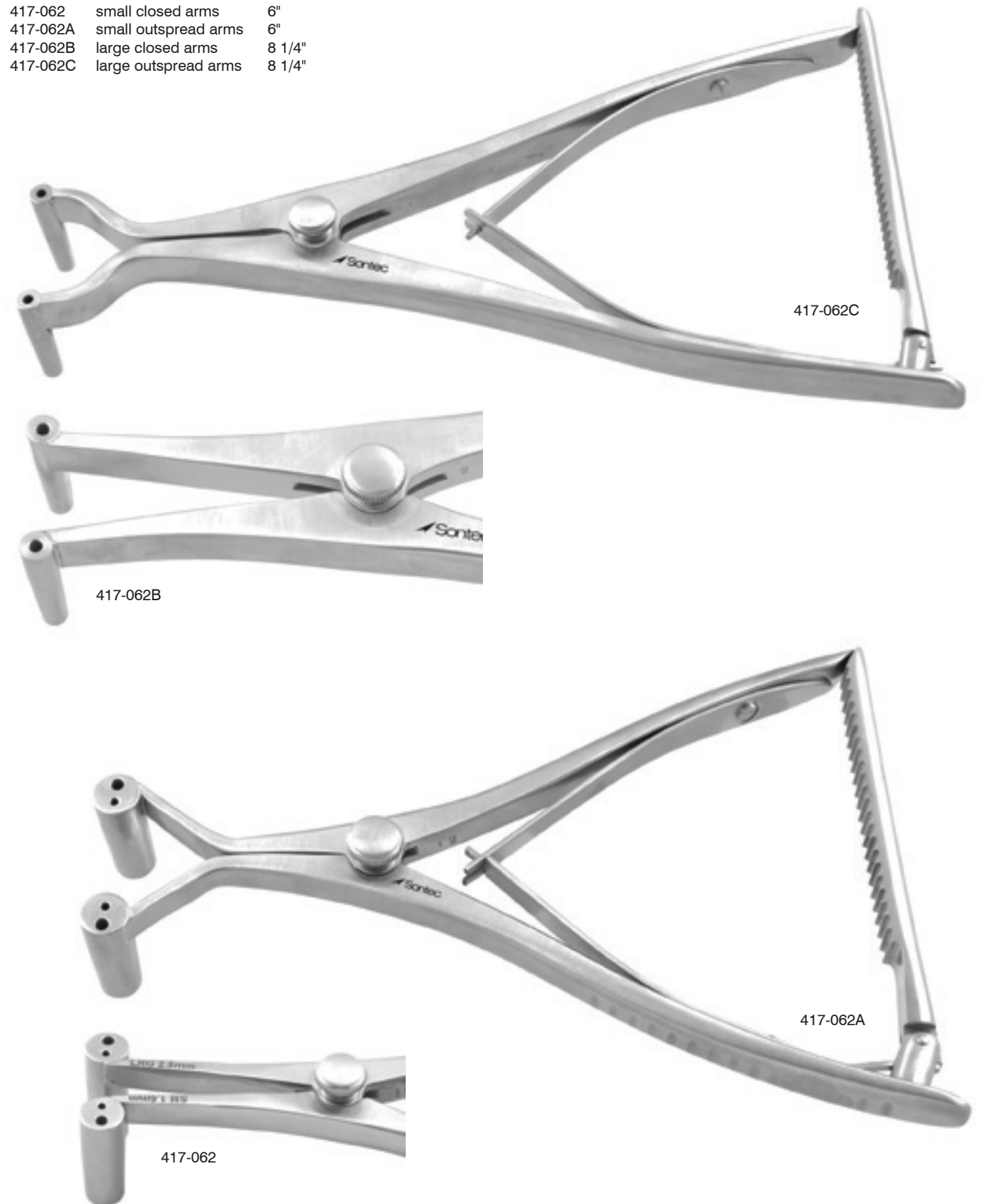
**Gelpi Retractor**

Parallel prongs with blunt tips / 6 1/2" (16.5 cm)  
1100-631M



**Foremann Kwire Distractor**

417-062	small closed arms	6"
417-062A	small outspread arms	6"
417-062B	large closed arms	8 1/4"
417-062C	large outspread arms	8 1/4"



**Foremann Kwire Distractor**

Tapered arms / 7 1/2" (19.1 cm)

417-062D



417-062D

**Mini Foremann Distractor**

Tapered arms / 5" (12.7 cm)

417-061



417-0621

**Davis Stifle Retractor**

With speed lock / 6 3/4" (17 cm)  
1103-290

\* Custom blunt or shortened tips available upon request



1103-290

**Allen Inge Stifle Retractor**

With speed lock / 11" (27.9 cm)  
1103-297

\* Custom blunt or shortened tips available upon request



1103-297

**Inge Neroma Retractor**

With crossover tip / 6 1/2" (16.5 cm)  
417-048 with speedlock  
417-048R with ratchet

\* Custom blunt or shortened tips available upon request



417-048



417-048R

**Mini Inge Neroma Retractor**

With crossover tip / speed lock / 5" (12.7 cm)

417-0482

\* Custom blunt or shortened tips available upon request



417-0482

**Mini Inge Neroma Ceramitec Retractor**

With crossover tip / speed lock / 5" (12.7 cm)

417-0482B

\* Custom blunt or shortened tips available upon request



417-0482B

**Wellace Stifle Retractor**

Improved retraction / turn-key action

1100-635 standard

1100-635C crossover style



1100-635

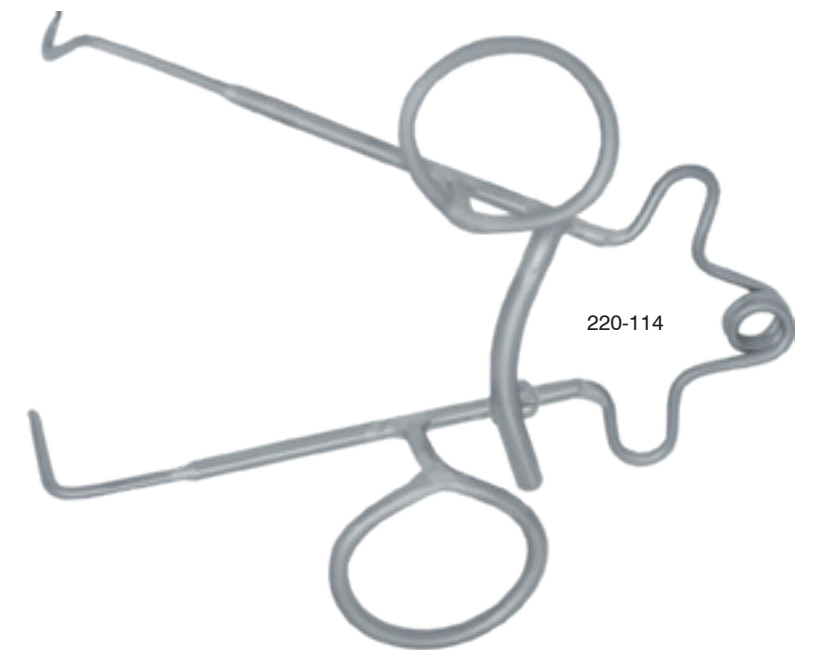


1100-635C

**Sisson Spring Retractor**

Sharp / 1 x 1 prongs / with ratchet / 4" (10 cm)

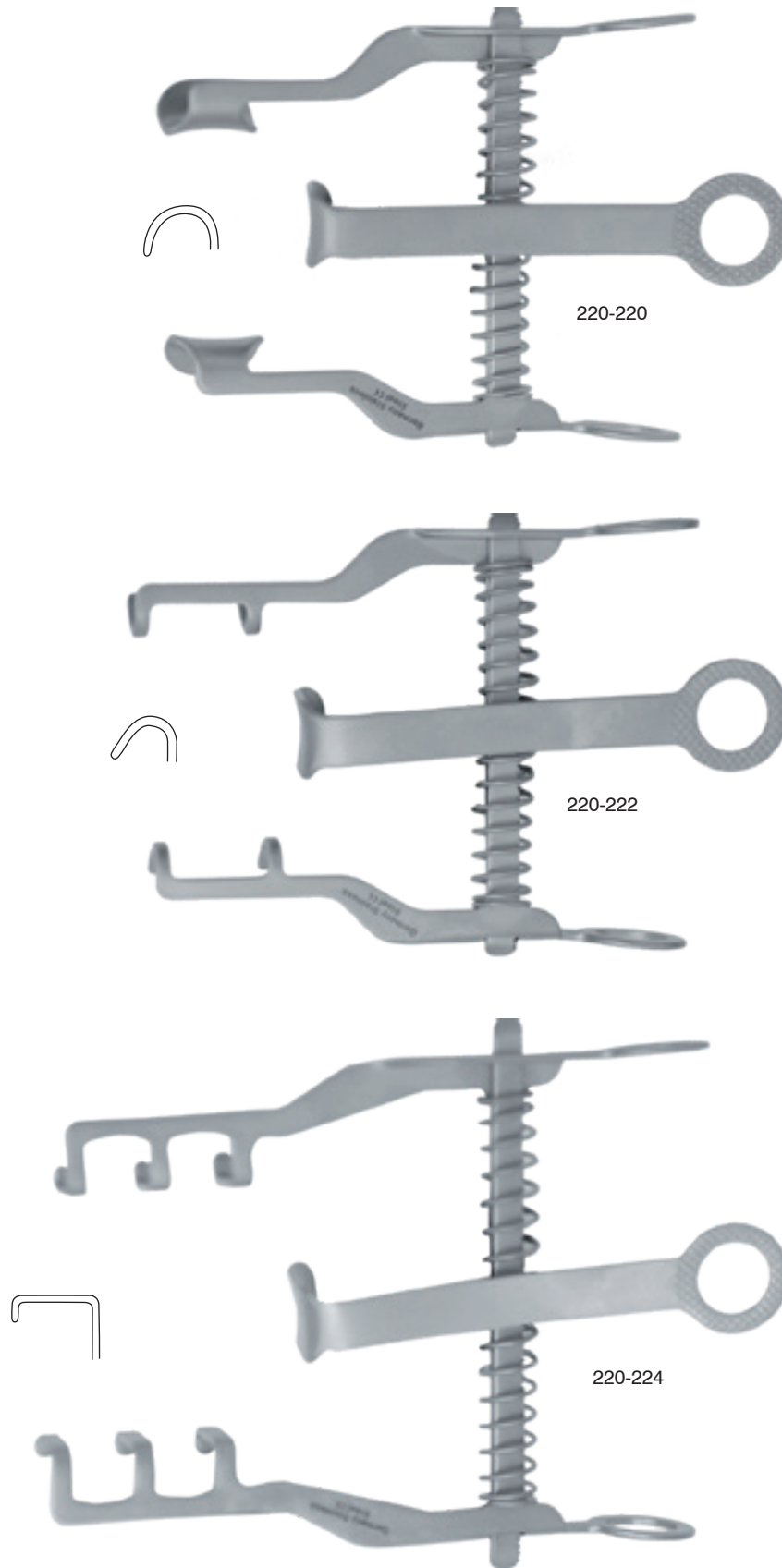
220-114



220-114

**Vickers Self-Retaining Retractor**

220-220	solid blades	3 1/8 (8 cm)
220-222	2 blunt blades	2 7/8 (7 cm)
220-224	3 blunt blades	3 1/2 (9 cm)



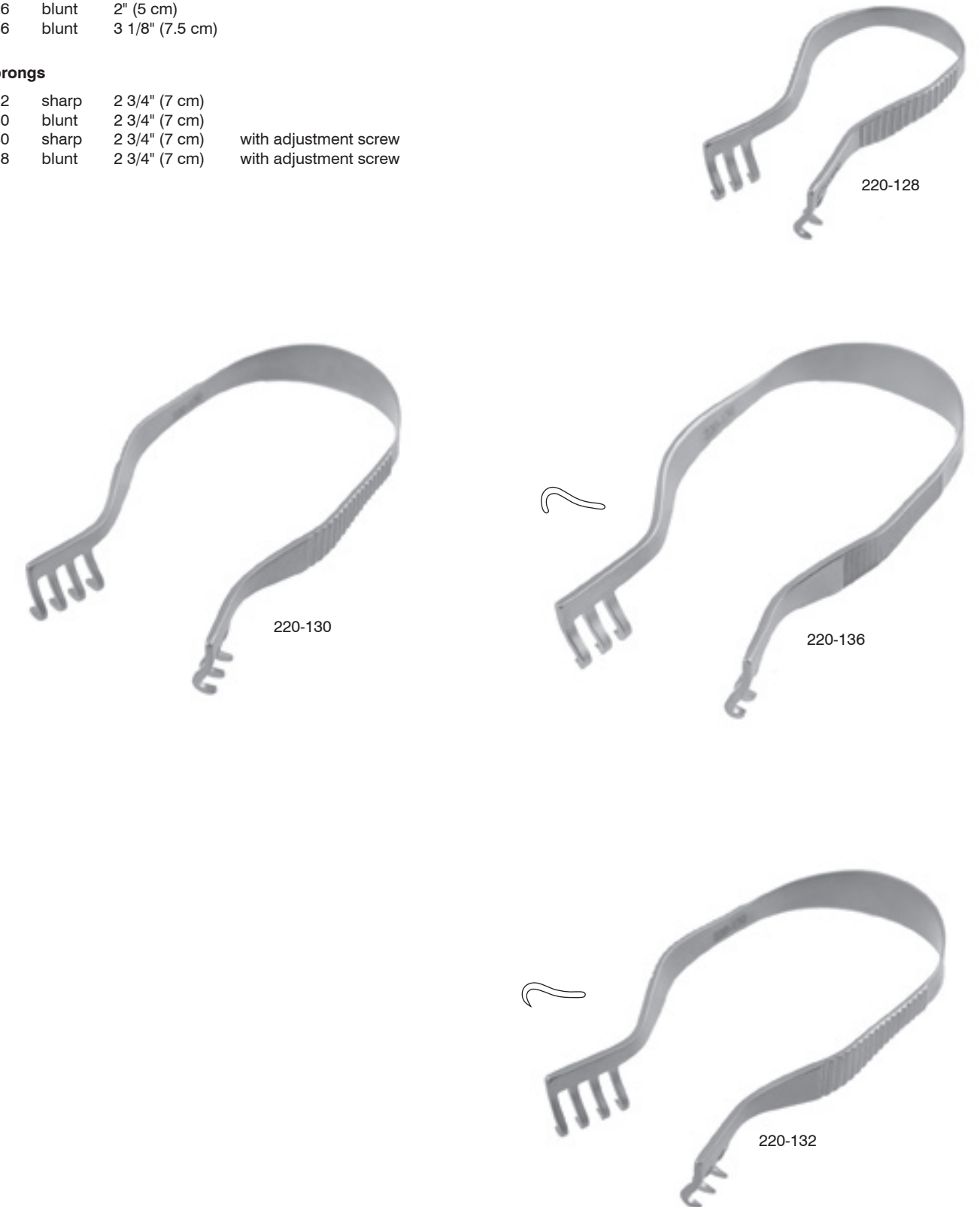
**Finsen Self-Retaining Retractor**

**2 x 3 prongs**

220-128	sharp	2" (5 cm)	
220-126	blunt	2" (5 cm)	
220-136	blunt	3 1/8" (7.5 cm)	

**3 x 4 prongs**

220-132	sharp	2 3/4" (7 cm)	
220-130	blunt	2 3/4" (7 cm)	
220-140	sharp	2 3/4" (7 cm)	with adjustment screw
220-138	blunt	2 3/4" (7 cm)	with adjustment screw



## Charnley Initial Incision Retractor

### Round frame set

9-15-450-02-SET

Complete set includes the following:

9-15-452-20	round frame	
9-15-452-02	small blade	25mm x 65mm
9-15-452-08	large blade	25mm x 50mm
9-15-452-12	weight with chain	

### Square frame set

9-15-460-02-SET

Complete set includes the following:

9-15-462-20	square frame	
9-15-462-02	small blade	25mm x 38mm
9-15-462-08	large blade	25mm x 44mm
9-15-462-12	weight with chain	

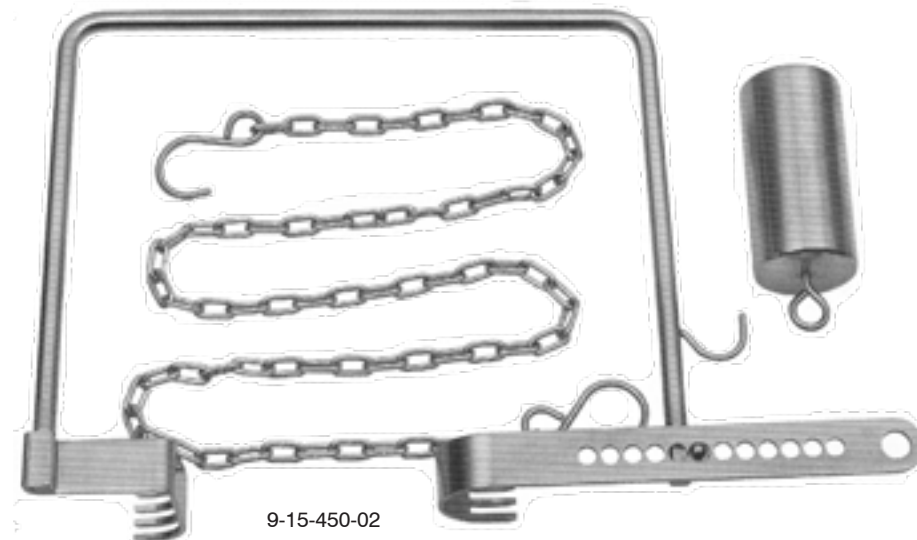
### Additional blades are also available

#### Small blades

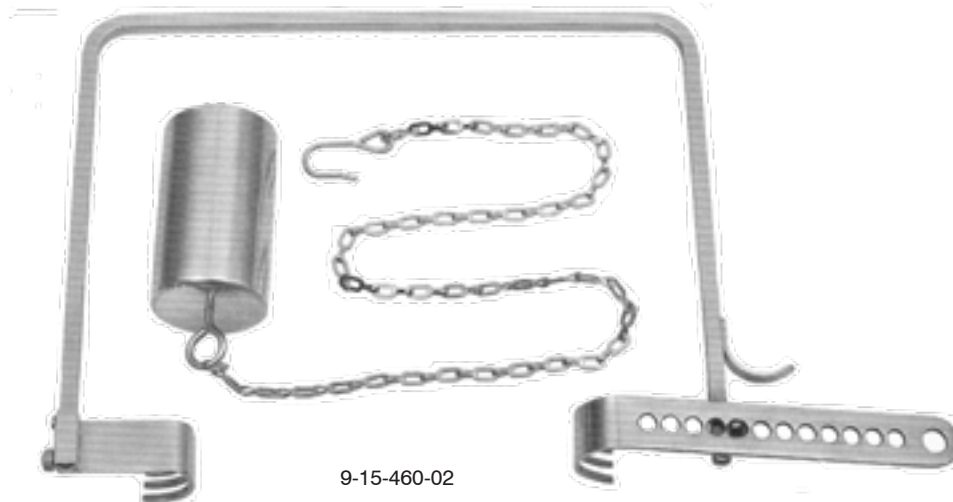
9-15-462-18	25mm x 25mm
9-15-462-21	25mm x 50mm
9-15-462-23	25mm x 57mm
9-15-462-22	25mm x 63mm
9-15-462-07	25mm x 75mm
9-15-462-14	25mm x 101mm
9-15-462-16	25mm x 127mm
9-15-462-27	25mm x 114mm

#### Large blades

9-15-462-19	25mm x 25mm
9-15-462-26	25mm x 50mm
9-15-462-24	25mm x 57mm
9-15-462-09	25mm x 63mm
9-15-462-13	25mm x 75mm
9-15-462-15	25mm x 101mm
9-15-462-17	25mm x 127mm
9-15-462-28	25mm x 114mm



9-15-450-02



9-15-460-02

## Slocum Type Army Navy Retractor

### Double ended

6 1/2" (16.5 cm)

207-259



207-259

## Taylor Spinal Retractor

### 7 1/4" (18.5 cm)

417-070 1 1/4" x 3" blade

### 8" (20.5 cm)

417-072 1 1/4" x 4" blade



417-072

## Kujat Shoulder Retractor

207-520 30 mm blade

207-525 35 mm blade



207-520

**Murphy-Lane Bone Skid**

Double ended / 1 1/4" cup & 3/4" cup / 12" (30.5 cm)

310-160

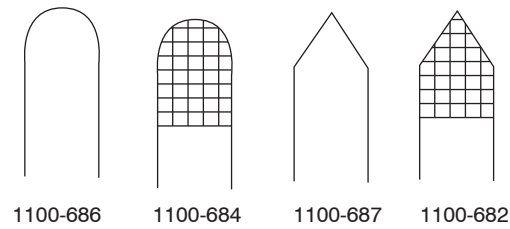


310-160

**Aufranc Cobra Retractor**

10 1/2" (26 cm)

- 1100-682 sharp serrated tip
- 1100-684 blunt serrated tip
- 1100-686 blunt smooth tip
- 1100-687 pointed smooth tip



1100-686

**Sontec Stifle Thrust Lever**

- 1100-6691 8 3/8"
- 1100-6692 11"



1100-6691

1100-6692

**Lahey Retractor**

7 3/4" (20 cm)

207-300



207-300

**Mathieu Retractor**

Set of 2 / double ended / 1 end with 2 prongs / 8" (20.3 cm)

207-254



207-254

**Hibbs Retractor**

Sharp teeth / 9 1/4" (23.5 cm)

- 207-389 25 mm w x 50 mm d
- 207-390 26 mm w x 75 mm d
- 207-391 25 mm w x 100 mm d



207-389



207-390



207-391

**Meyering Retractor**

- 207-415 large blade 3 1/2" x 2" x 9 1/2"
- 207-413 medium blade 3" x 1" x 9 1/2"
- 207-411 small blade 2" x 5/8" x 9 1/2"



207-413



207-415

**Malleable Ribbon Retractor**

Hollow Grip Handle

- 207-482 3/4" wide blade
- 207-484 1" wide blade
- 207-486 1 1/4" wide blade
- 207-488 1 1/2" wide blade
- 207-490 2" wide blade



207-486



207-488



207-490

**Malleable Ribbon Retractor**

**Malleable**

- 207-454 1/4" x 7"
- 207-455 3/8" x 7"
- 207-456 1/2" x 7"
- 207-460 5/8" x 7"
- 207-461 3/4" x 7"
- 207-462 1" x 7"
- 207-463 3/4" x 13"
- 207-464 1" x 13"
- 207-465 1 1/4" x 13"
- 207-466 1 1/2" x 13"
- 207-467 2" x 13"
- 207-468 2 1/2" x 13"
- 207-469 3" x 13"
- 207-470 3 1/2" x 13"
- 207-471 4" x 13"
- 207-472 5" x 13"
- 207-474 1 3/4" x 13"
- 207-473 2 3/4" x 13"



207-454



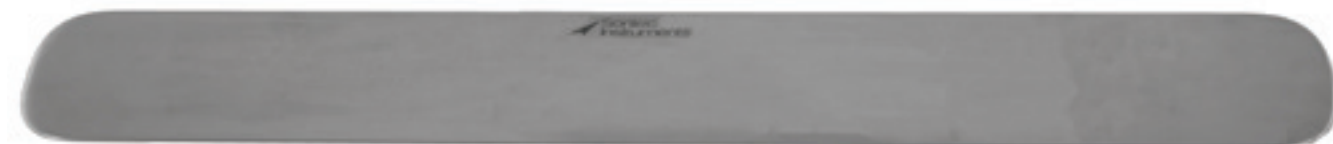
207-462



207-465



207-468



207-474



207-473

**Volkman Retractor**

**Sharp / 4 1/2" (11.5 cm)**

- 1100-648 2 prong
- 1100-650 3 prong
- 1100-652 4 prong
- 1100-654 6 prong



1100-648

**Sharp / 8" (20 cm)**

- 1100-656 2 prong
- 1100-658 3 prong
- 1100-662 6 prong



1100-650

**Sharp / 8 1/2" (22 cm)**

- 1100-660 4 prong



1100-652

**Blunt / 4 1/2" (11.5 cm)**

- 1100-648B 2 prong
- 1100-650B 3 prong
- 1100-652B 4 prong
- 1100-654B 6 prong

**Blunt / 8 1/2" (22 cm)**

- 1100-656B 2 prong
- 1100-658B 3 prong
- 1100-660B 4 prong
- 1100-662B 6 prong

**Sharp / 8 3/4" (23 cm)**

- 214-052 4 prong



1100-660



1100-662



214-052

**Senn Retractor**

Double-ended / 6 1/4" (16 cm)

- 1100-668 sharp
- 1100-668B blunt
- 1100-668T sharp titanium



**Senn Retractor**

Blue electro coated / Double-ended / 6 1/4" (16 cm)

- 1100-669 sharp
- 1100-669B blunt



**Ragnell Retractor**

Double-ended / 6" (15 cm)

- 205-849



**Ragnell Retractor**

Blue coated / double-ended / 6" (15 cm)

- 205-849B



**Richardson Retractor**

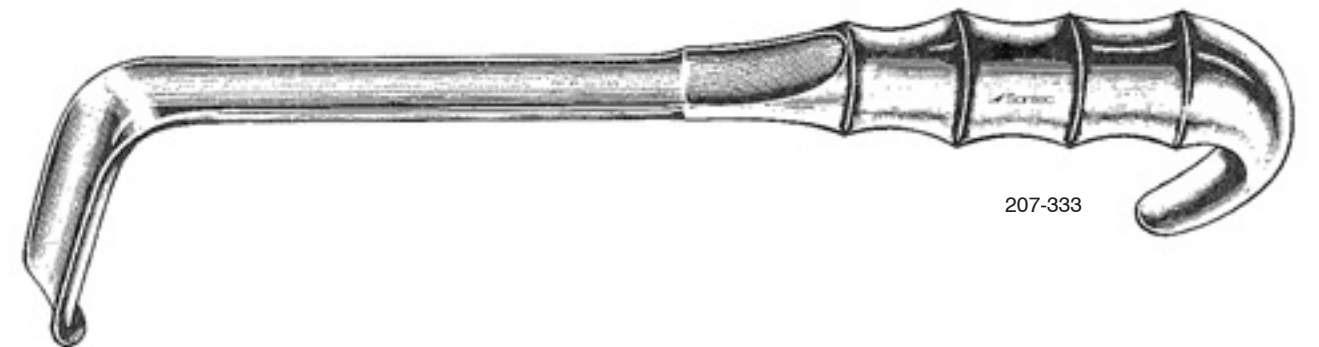
9 1/2" overall length / loop grip handle

- 207-338 1" x 3/4"
- 207-340 1" x 1 1/4"
- 207-342 1 1/2" x 1 1/2"
- 207-345 2" x 3/4"



9 1/4" overall length / hollow grip handle

- 207-333 2" x 3/4"



11" overall length / lamb grip handle

- 207-326 1" x 3/4"
- 207-328 1 1/4" x 1"
- 207-330 1 1/2" x 1 1/2"



**Senn Retractor**

Double-ended / 6 1/4" (16 cm)

- 1100-668 sharp
- 1100-668B blunt
- 1100-668T sharp titanium



1100-668B



1100-668T

**Senn Retractor**

Blue electro coated / Double-ended / 6 1/4" (16 cm)

- 1100-669 sharp
- 1100-669B blunt



1100-669



1100-669B

**Ragnell Retractor**

Double-ended / 6" (15 cm)

205-849



205-849

**Ragnell Retractor**

Blue coated / double-ended / 6" (15 cm)

205-849B



205-849B

**Richardson Retractor**

9 1/2" overall length / loop grip handle

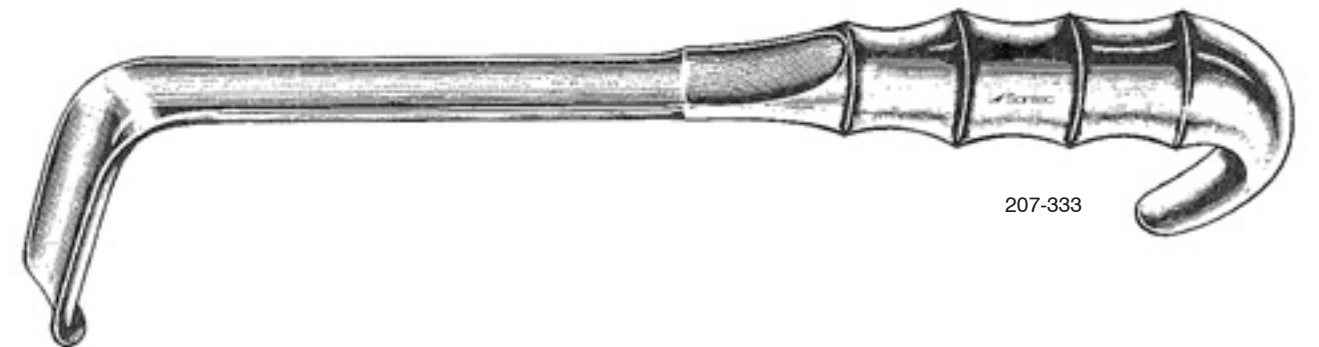
- 207-338 1" x 3/4"
- 207-340 1" x 1 1/4"
- 207-342 1 1/2" x 1 1/2"
- 207-345 2" x 3/4"



207-340

9 1/4" overall length / hollow grip handle

- 207-333 2" x 3/4"



207-333

11" overall length / lamb grip handle

- 207-326 1" x 3/4"
- 207-328 1 1/4" x 1"
- 207-330 1 1/2" x 1 1/2"



207-326

**Richardson-Eastman Retractor**

207-319-SET set of two, one large and one small  
 207-321 small 10" (25 cm)  
 207-323 large 11" (28 cm)



207-319-SET

**Kelly Retractor**

Hollow grip handle / 9 1/2" (24 cm)

207-358 1 1/2" x 2"  
 207-360 2" x 2 1/2"  
 207-362 2 1/2" x 3"  
 207-364 3" x 3 1/2"



207-364

**Kelly Lamb Retractor**

10" overall length

207-350 1 1/2" x 2"  
 207-352 2" x 2 1/2"  
 207-354 2 1/2" x 3"  
 207-356 3" x 3 1/2"



207-350

**U.S. Army-Navy Retractor**

Set of 2 / 8 1/2" (21.5 cm)

1100-670



1100-670

**U.S. Army-Navy Retractor**

Set of 2 / blue electro coated / 8 1/2" (21.5 cm)

1100-670B



1100-670B

**Sontec-Hohmann Elevator Retractor**

**Fenestrated head / 2 prong tip / curved**

310-177 11 1/4" (30 cm) 22 mm tip

**Radically curved head / sharp tip / curved**

310-178 11 1/2" (30 cm) 22 mm tip

**Fenestrated head / proximal tibia type / 2 prong tip / curved**

310-179 12 1/4" (31 cm) 40 mm tip

**Extra long 16" / radically curved head / sharp tip / curved**

310-180 16" (40.5 cm)

**Radically curved contoured head 120° / sharp**

310-182 13" (33 cm) 40mm tip



310-177 310-178 310-179 310-182 310-180

**Sontec-Hohmann Elevator Retractor**

**Extra long tip / C-shaped handle**

310-171 10 1/4" 24 mm tip

**Radically curved / fenestrated head / sharp tip**

310-173 10 1/4" 22 mm tip

**Radically curved / contoured head / sharp tip**

310-174 12" 40 mm tip

**Extra wide tip**

310-176 10 3/4" 33 mm tip



310-171 310-173 310-174 310-176

**Hohman Elevator Retractor**

**8 1/2" (21.5 cm)**

1100-671 8 mm blade

**9 1/4" (23.5 cm)**

1100-672 10 mm blade  
 1100-673 18 mm blade  
 1100-674 25 mm blade  
 1100-675 43 mm blade  
 1100-676 70 mm blade

**9 1/2" (24 cm) / with extra long tip**

1100-671E 8 mm blade  
 1100-672E 10 mm blade  
 1100-673E 18 mm blade



1100-674



1100-675



1100-673E

**Sontec-Hohman Retractor**

**Radical bend / 25 mm tip / 10 1/2" (27 cm)**

1100-677



1100-677

**Mini Hohman Elevator Retractor**

**6 1/4" (16 cm)**

1100-6780 2.5 mm blade  
 1100-679 4 mm blade  
 1100-678 6 mm blade  
 1100-680 8 mm blade



1100-6780



1100-679



1100-678



1100-680



**Sontec Lane Lever Elevator**

**Ring handle style 30-100 lbs**

1100-6696



**Hip & Knee Retractor**

With Handle / 10" (25.5 cm)  
207-405



207-405

**Lead Hand Stabilizing Restrainer**

48-0339 pediatric 9 3/4" (25cm)  
48-0340 adult 14 1/2" (37cm)



48-0340



 Sontec Instruments®

Orthopedic Spinal LAMINA SPREADERS

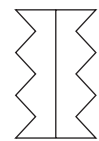
**Platypus Micro Inge Lamina Spreader**

Platypus tip / 7" (17.8 cm)  
417-049



**Inge Lamina Spreader**

With unique selection of tips /  
adult size / 9 1/2" (24 cm)  
417-060 standard tip  
417-060A tip A  
417-060B tip B  
417-060C tip C  
417-060D tip D  
417-060E tip E

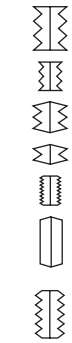


adult standard tip

**Inge Lamina Spreader**

With unique selection of tips / pediatric  
/ 6 1/2" (16.5 cm)

417-064 standard tip  
417-064A tip A  
417-064B tip B  
417-064C tip C  
417-064D tip D micro tip 1mm wide  
417-064E tip E smooth  
417-064F flat delicate, cross  
serrated tips with  
calibrated ratchet



child standard tip

tip A

tip B

tip C

tip D

tip E

tip F

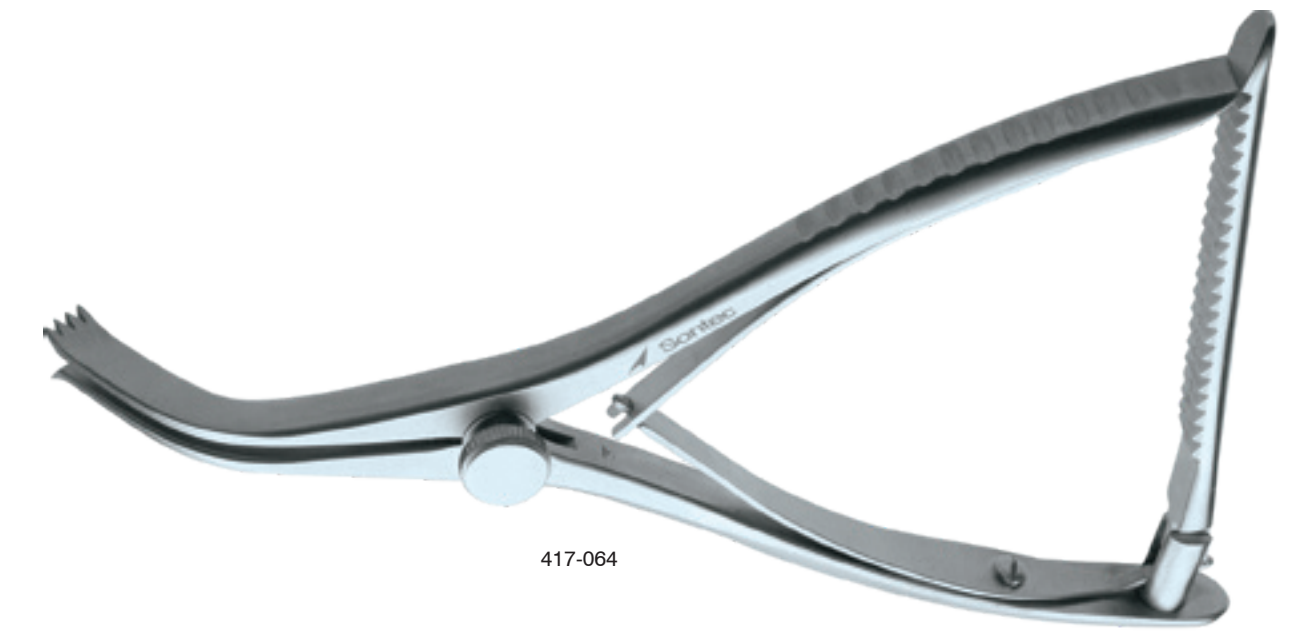
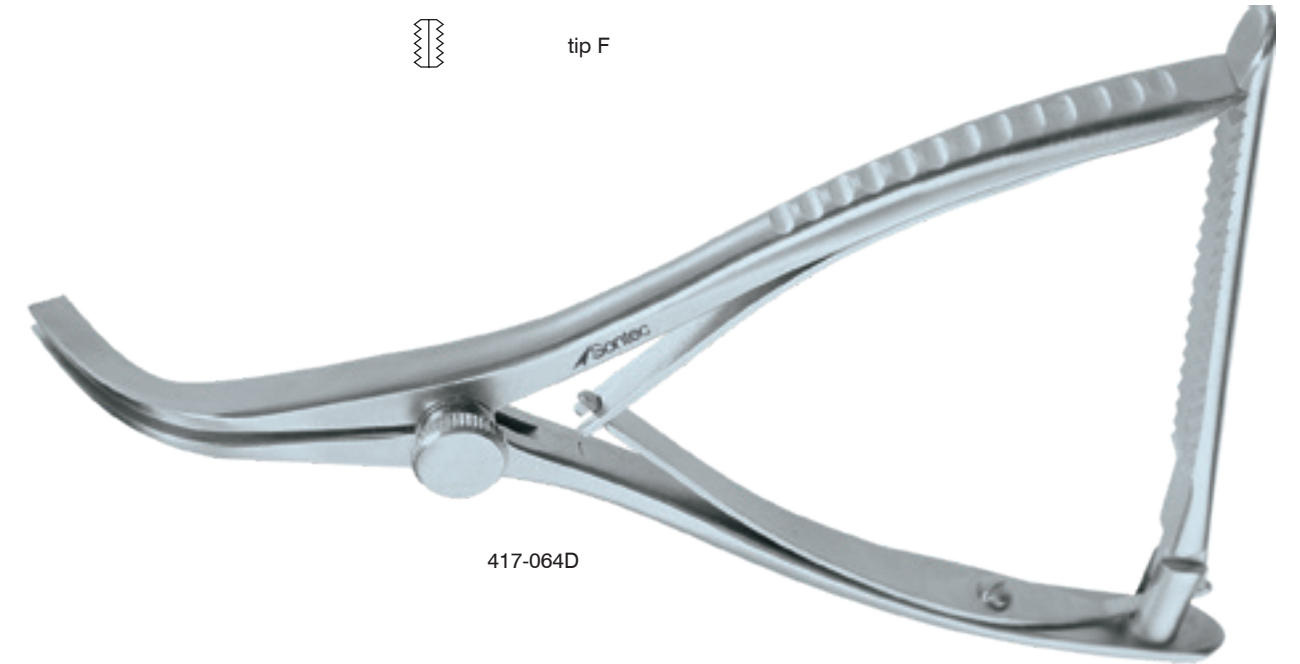


417-064D  
Fine Serrations

417-064A

417-064

417-064E



**Micro Inge Lamina Spreader**

“tip D” / with speed lock

417-063 micro 1 mm serrated tips

\* also available with ratchet design



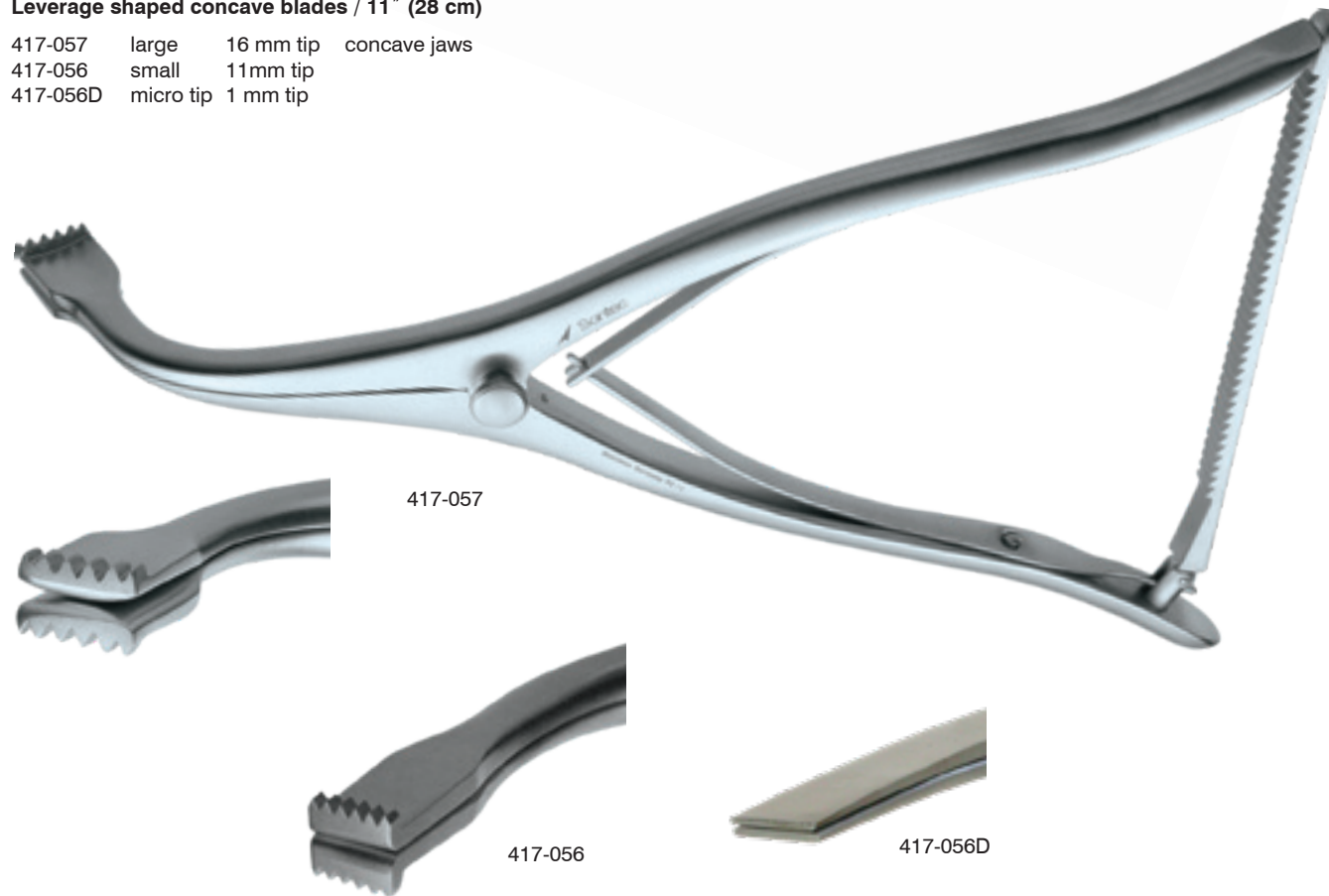
**Inge Lamina Spreader Extra Large Retractor**

Leverage shaped concave blades / 11" (28 cm)

417-057 large 16 mm tip concave jaws

417-056 small 11mm tip

417-056D micro tip 1 mm tip

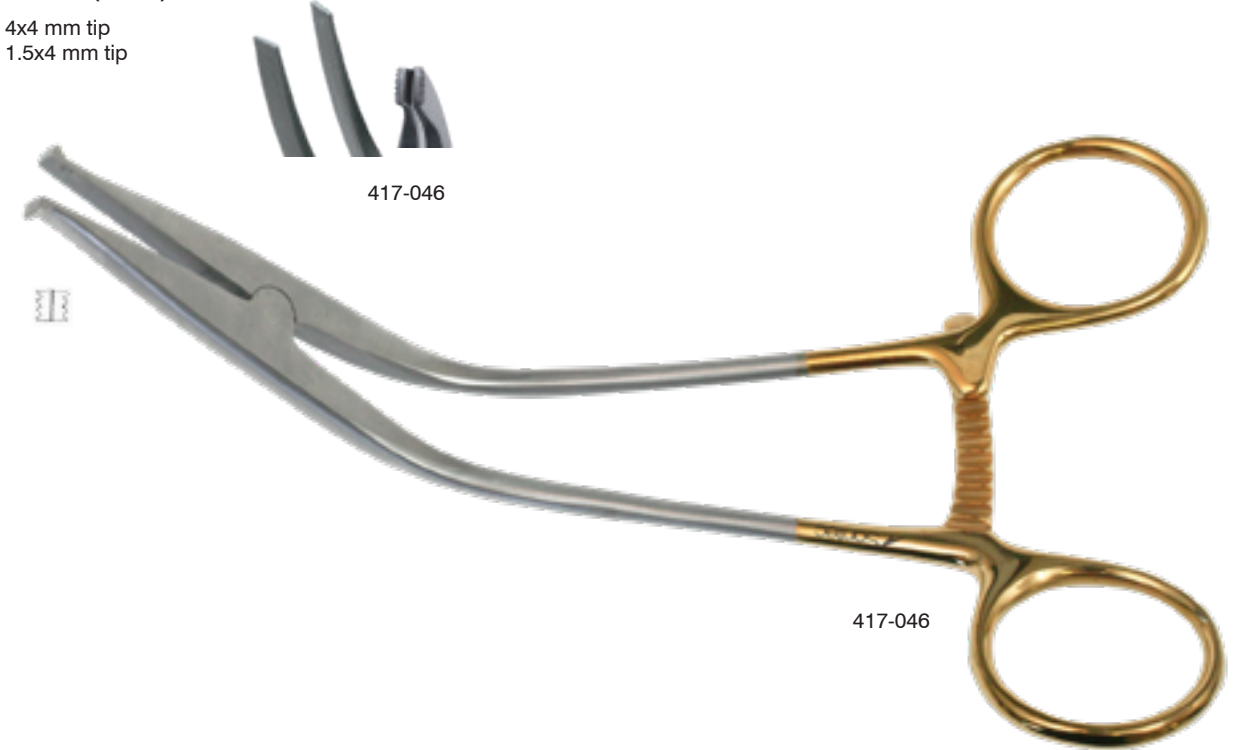


**Inge Micro Ring Handle Lamina Spreader**

With ratchet / 6 1/4" (16 cm)

417-046 4x4 mm tip

417-047 1.5x4 mm tip



**Cloward Vertebral Cervical Spreader Retractor**

416-137



416-137

**Cloward Lamina Spreader**

52-1301 6 1/4" (15.9 cm)

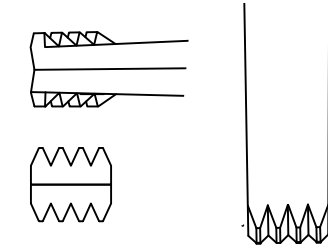


52-1301

**Inge Lamina Retractor**

**Classic jaws / with speedlock**

417-055	3.5" working length	10 3/4" overall length
417-055L	5" working length	12" overall length
417-055S	1.5" working length	8" overall length



417-055L



417-055S



 Sontec Instruments®

Orthopedic ROD HOLDERS & BENDERS

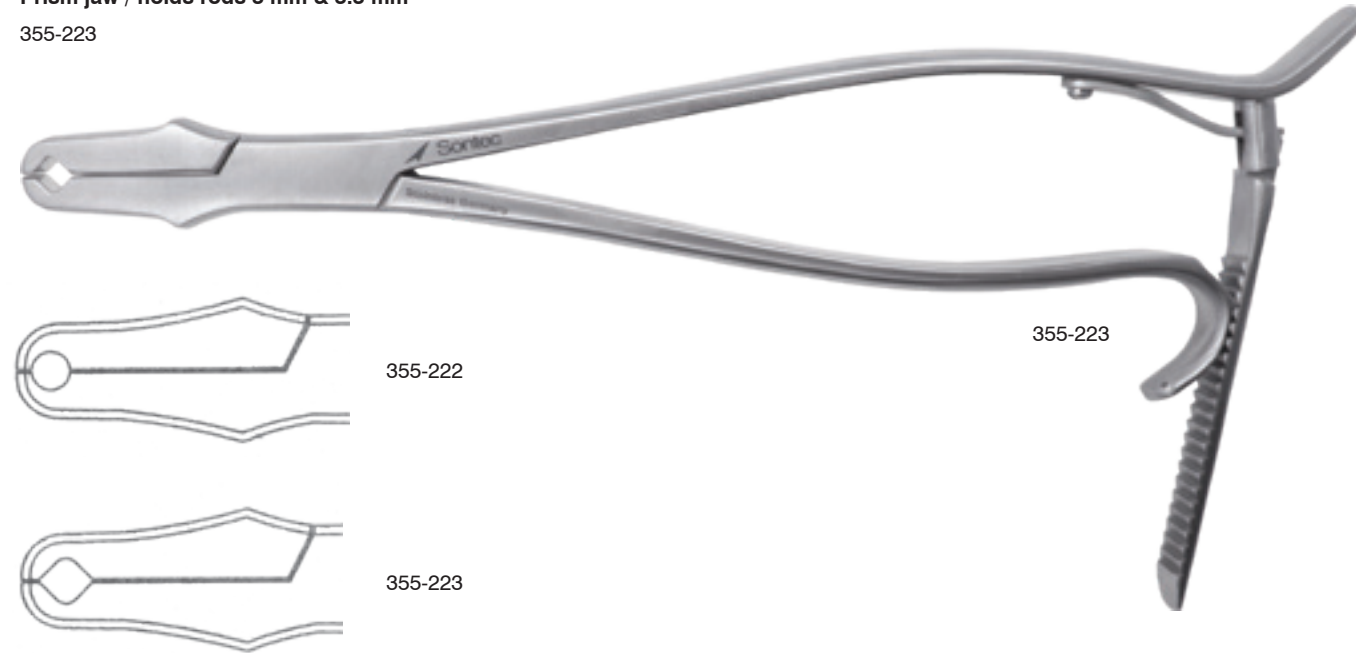
**Rod Holder Kern Type**

With ratchet / 10" (25.5 cm) / round jaw,  
with threaded hole / holds rods up to 6 mm

355-222

Prism jaw / holds rods 5 mm & 5.5 mm

355-223



**Ferris Smith Rod Holder**

For Ø 5.5 rods / 7" (17.8 cm)

355-226



**Mini Rod Holder**

7" (17.8 cm)

355-2213 5.5 mm

8 1/4" ( 21 cm)

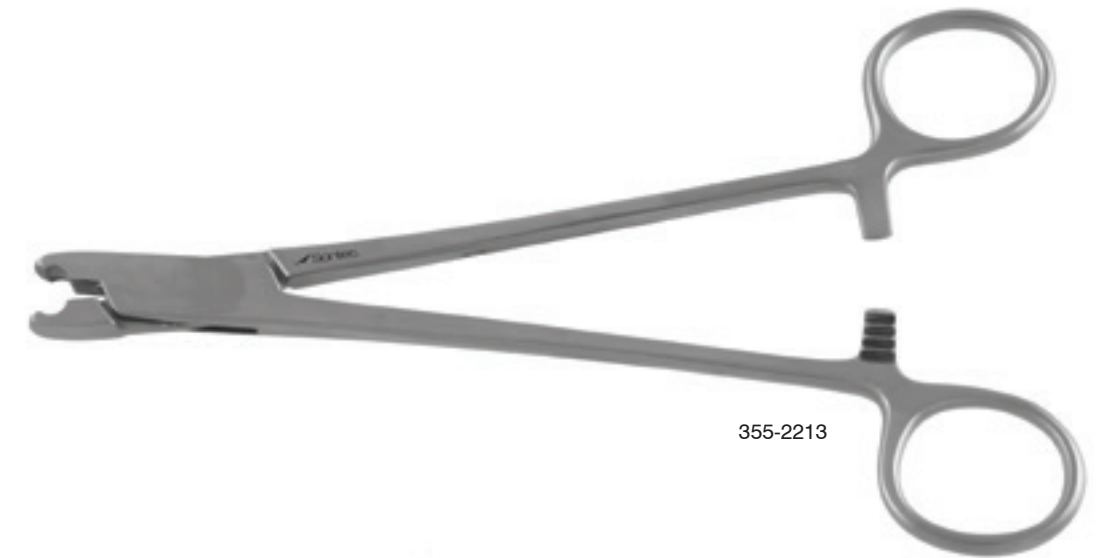
355-221 2.5 mm

355-2215 5.5 mm

8 3/4" ( 22 cm)

355-2214 5.0 mm

355-2217 5.5 mm



**Rod Gripping Pliers**

Adjustable to accommodate all  
Rod sizes / 8 3/4" ( 22cm)

1103-134



1103-134

**Wire Bender**

Bends and stabilizes  
K-wire / cuts wire up to  
1.6 mm / 7 1/2" (19 cm)

1103-156



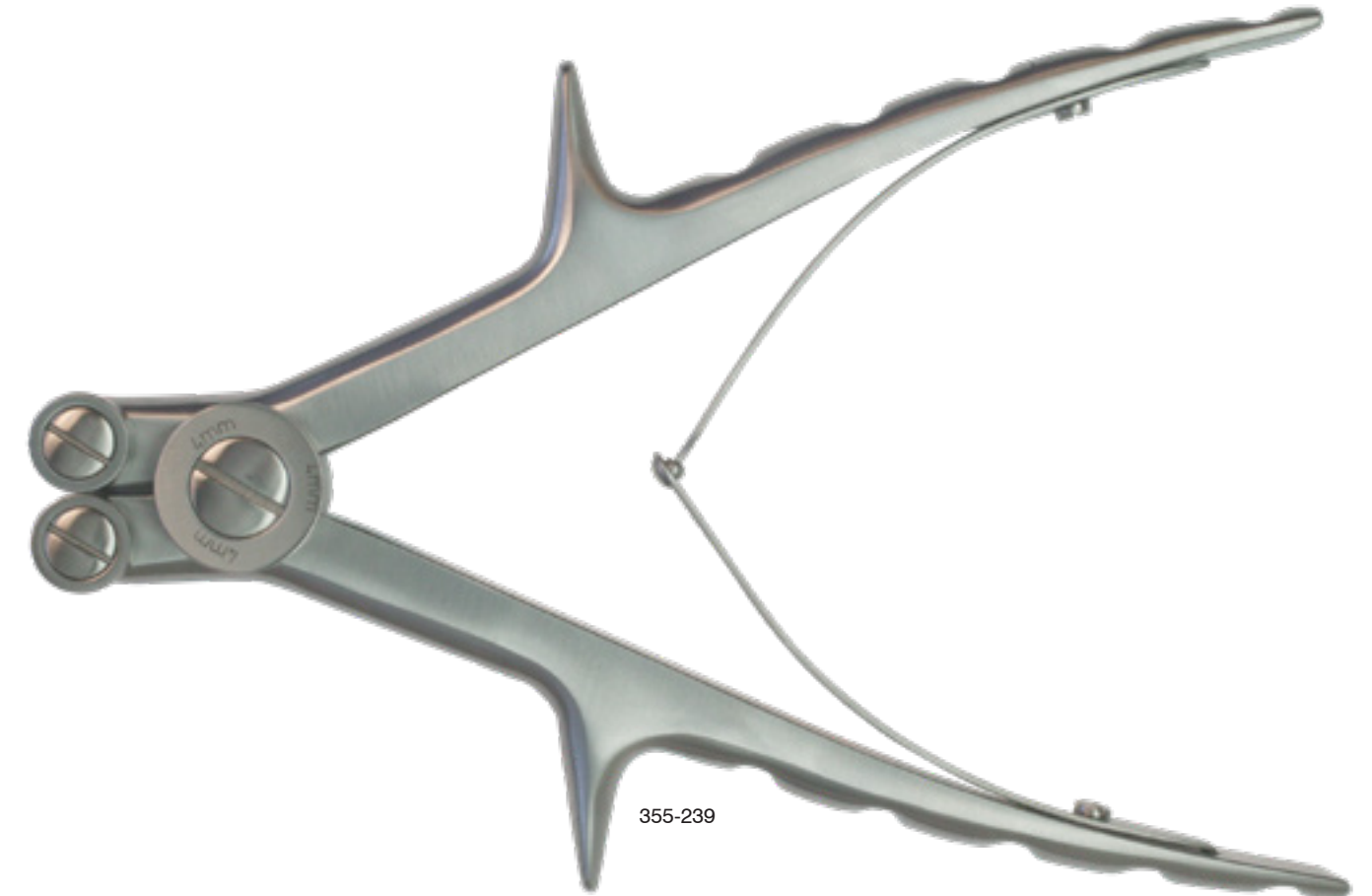
1103-156

**Rod Bender Small**

Double sided / 7" (18 cm)

355-238 fits 3mm and 4mm rods

355-239 universal 3mm and 4mm rods



355-239



355-238

**Rod Bender Large**

11" (28 cm)

355-240 bends rods up to 7 mm  
355-241 bends rods up to 5.5 mm



355-240

**Aderer Wire Bending Pliers**

5 3/4" (14.5 cm)

1103-120



1103-120

**Waldsachs Universal Pin Bender Pliers**

6" (15 cm)

1103-138  
1103-1381 TC



1103-138



1103-1381



 Sontec Instruments®

Orthopedic SCREWDRIVERS

**Hexagonal Screw Driver**

**Screw drivers / phenolic handle**

1106-261	2.5 mm	7" (18cm)
1106-263	3.5 mm	7" (18 cm)
1106-270	2.5 mm	7 3/4" (20 cm)
1106-260	2.5 mm	9" (23 cm)
1106-262	3.5 mm	9" (23 cm)
1106-271	2.5 mm	9" (23 cm)

**Universal screw driver sleeve**

1106-270S



1106-263



1106-270S



sleeve and screw drivers sold separately

**Phenolic handle / 10 1/2" (27 cm)**

1106-257	2.5mm	screw driver w/ sleeve
1106-258	2.5mm	screw driver
1106-259		sleeve



1106-258



1106-259



1106-257

**A.O. Type Universal Screw Driver**

**Screw drivers / 5" (13 cm)**

1106-280	AO type tap handle
1106-281	AO type tap handle swivel

**Screw driver shaft**

1106-283	1.5 mm
1106-285	2.5 mm
1106-284	3.5 mm



1106-281



1106-285



1106-281 with 2.5mm shaft and universal sleeve

**Lubra® Screw Driver**

**Phenolic Handle / 6 3/4" (17 cm)**

1106-965	flat head
1106-967	hex head

**Phenolic handle / 10" (25 cm)**

1106-264	single slot
1106-266	cruciform
1106-268	phillips



1106-967

**AO Type Universal Screwdriver Set**

1106-2881 Set includes:

- |           |  |                |
|-----------|--|----------------|
| 1106-288  | AO type tap handle swivel                | 4 1/4" (11 cm) |
| 1106-289A | 1.5mm hex screwdriver shaft              | 2" (5 cm)      |
| 1106-289B | 1.5mm cruciform hex screwdriver shaft    | 2" (5 cm)      |
| 1106-289C | universal sleeve mini screwdriver shafts | 1.5 mm         |



1106-288



sleeve and screw drivers sold separately



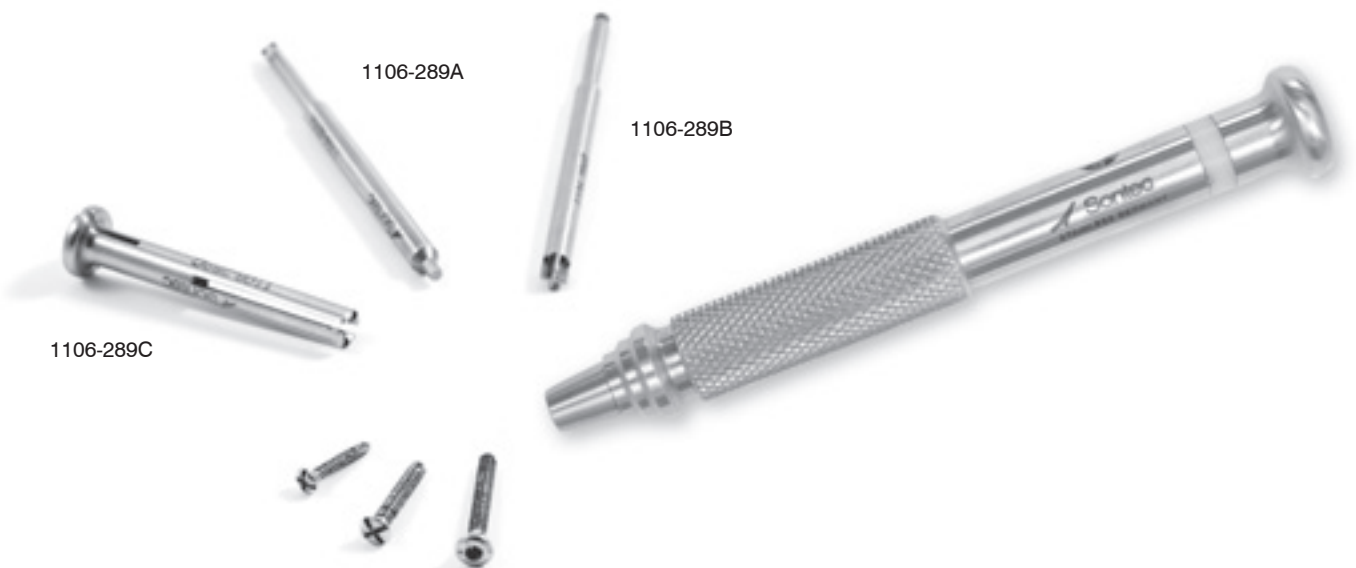
1106-289C



1106-289A



1106-289B



1106-289A

1106-289B

1106-289C

**Screw Holding Forceps**

For titanium and stainless steel screws / 5 3/4" (14.6 cm)

136-801T



136-801T



 Sontec Instruments®

Orthopedic DRILLS, DRILL GUIDES & CHUCKS

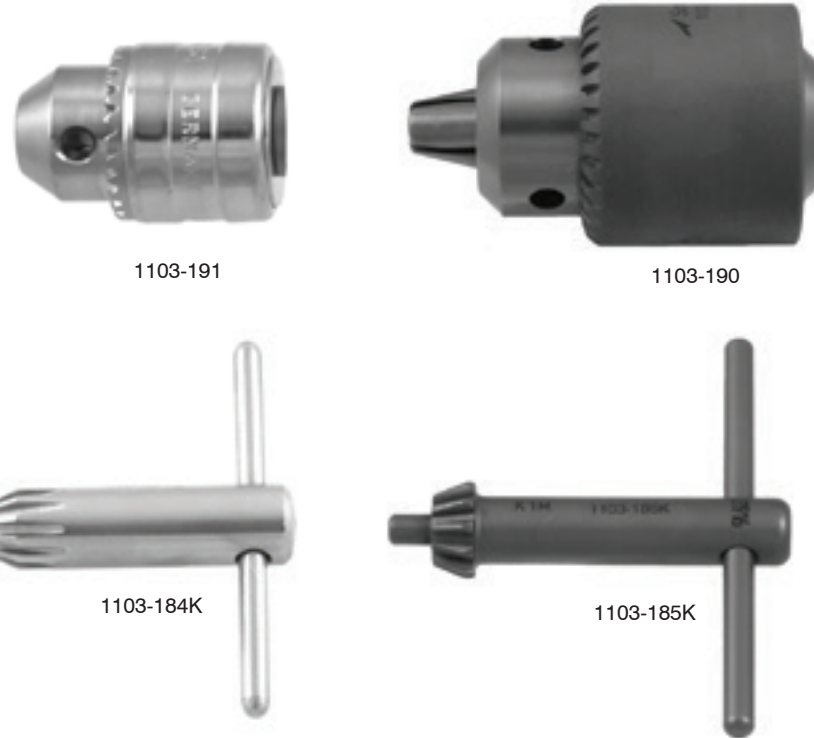
**Sontec I.M. Pin Chuck**

Stainless steel keyed drill chuck

- 1103-190 3/8"
- 1103-191 5/16"

Key for Sontec I.M. pin chuck

- 1103-185K for 3/8" chuck
- 1103-184K for 5/16" chuck



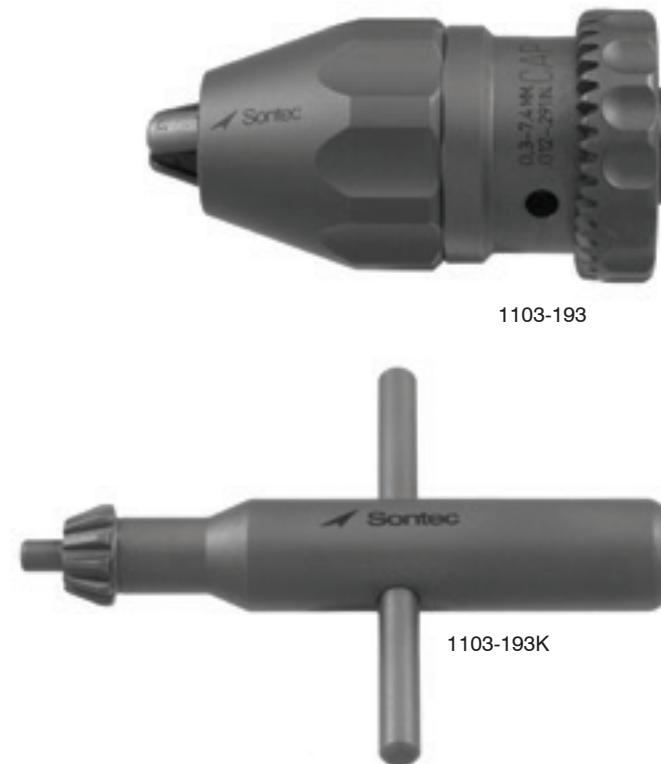
**Sontec Hybrid I.M. Pin Chuck**

Stainless steel universal use with or without key drill chuck

- 1103-193 3/8"

Key for 3/8" hybrid chuck

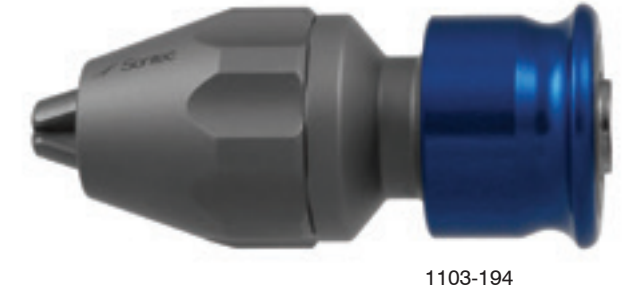
- 1103-193K



**Sontec Keyless I.M. Pin Drill Chuck**

Stainless steel chuck with lock system

- 1103-194 3/8"



**Sontec I.M. Pin Chuck Aluminum Handle**

- 1103-190H for 3/8" chuck
- 1103-191H for 5/16" chuck



**Sontec I.M. Pin Chuck T-Handle**

1103-185T



1103-185T

**Power Drill Adapter for Sontec I.M. Pin Chuck**

For 5/16"

1103-176



1103-176

**Sontec I.M. Pin Chuck Extensions**

1103-187 extension handle to protect against sharp end of pin being exposed  
 1103-186X key extension handle for IM Pin chuck key leverage device



1103-187



1103-186X

**Sontec I.M. Pin Chuck Set**

**with aluminum handle**

1103-184-SET

Set includes:

- 1103-191 stainless steel 5/16" chuck
- 1103-184K key
- 1103-191H aluminum handle
- 1103-187 extension handle

1103-185-SET

Set includes:

- 1103-190 stainless steel 3/8" chuck
- 1103-185K key
- 1103-190H aluminum handle
- 1103-187 extension handle



**Sontec I.M. Pin Chuck Set**

**with t-handle**

1103-184T-SET

Set includes:

- 1103-191 stainless steel 5/16" chuck
- 1103-184K key
- 1103-185T t-handle

1103-185T-SET

Set includes:

- 1103-190 stainless steel 3/8" chuck
- 1103-185K key
- 1103-185T t-handle



**Sontec Hybrid I.M. Pin Chuck Set**

**with aluminum handle**

1103-193-SET

Set includes:

- 1103-193 stainless steel 3/8" keyed or keyless drill chuck
- 1103-193K key
- 1103-190H aluminum handle
- 1103-187 extension handle

**with t-handle**

1103-193T-SET

Set includes:

- 1103-193 stainless steel 3/8" keyed or keyless drill chuck
- 1103-193K key
- 1103-185T t-handle



**Sontec Keyless I.M. Pin Chuck Set**

**with aluminum handle**

1103-194-SET

Set includes:

- 1103-194 stainless steel 3/8" keyless chuck
- 1103-190H aluminum handle
- 1103-187 extension handle

**with t-handle**

1103-194T-SET

Set includes:

- 1103-194 stainless steel 3/8" keyless chuck
- 1103-185T t-handle



**K-Wire Pin Driver**

Cannulated for K-wire / 6 3/8" (15.5 cm)

1103-180  
1103-180T titanium



1103-180

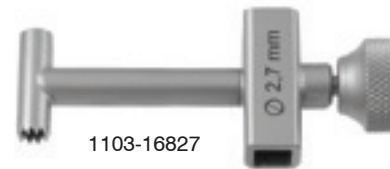


1103-180T

**Universal Drill Guide**

With adjustable spiked head and 3 different sized interchangeable guide tubes

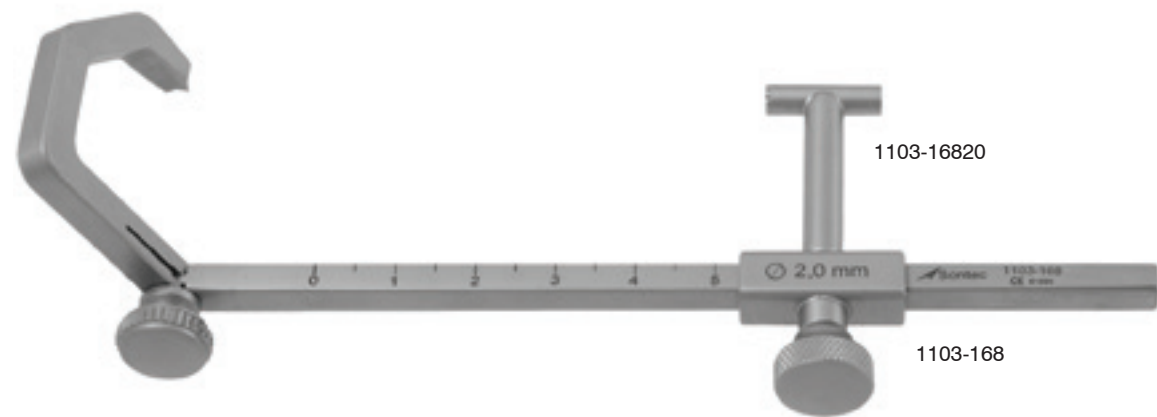
1103-168-SET  
Set include:  
1103-168 Universal Drill Guide body with spike  
1103-16820 2.0 mm guide tube  
1103-16827 2.7 mm guide tube  
1103-16835 3.5 mm guide tube



1103-16827



1103-16835



1103-16820

1103-168

**Tap Sleeve & Insert Drill Sleeve Set**

1103-162S-SET set includes:  
1103-161 Taylor Universal drill guide handle  
1103-162A tap sleeve 4.5 mm  
1103-162B insert drill sleeve for 3.2 mm

\* The toothed tip prevents slipping on the bone



1103-162S



1103-162B

1103-162A

1103-161

**3 / 1 Drill Guide**

For drill 2 mm / double ended

1103-162C tap sleeve 4.5 mm



1103-162C

**Tap/ Drill Sleeve**

Double ended

1103-162D 3.5 mm x 2.5 mm  
1103-162E 2.7 mm x 2.0 mm



**Micro Tap/ Drill Sleeve**

2.5 mm / single ended

1103-162M



**Taylor Drill Guide**

1103-1625 small reducer 3.2 mm / 1.6 mm  
1103-1626 large reducer 7 mm / 3.2 mm  
1103-1627 handle / reducer 9.5 mm / 7 mm



**Countersink Bit Cannulated**

1106-384 3.5 / 4.0 mm screws  
1106-385 4.5 mm screws



**Measuring Gauge**

For cannulated screws / 3.5 mm & 4.5 mm

1106-375



**AO Tap Cannulated**

1106-387 for 4.5 mm screws 7"  
1106-388 for 3.5 mm screws 4 1/4"



**Drill Bit Quick Coupling**

4.5 mm Ø 195 mm

1106-391



**Double Drill Guide**

4.5 / 3.2 mm  
1103-1624



**Double Drill Guide**

2.7 / 1.25 mm  
1103-1623



**Parallel Drill Guide**

For 1.6 mm wire / 4.5 mm cannulated screws  
1103-1622 small reducer



**Bone Tunnel Borer**

7" (18 cm)  
1106-848 2.7 mm

\* Stainless Steel, small handle, attached drill bit. Used to create bone tunnel quickly and easily without having to set upon a complete orthopedic drill.



1106-848

**Valkyrie Mach Holder / Drill Guide**

1103-1601



1103-1601



 Sontec Instruments®

Orthopedic SPECIALTY

**Depth Gauge**

6 1/4" (16 cm) /  
Screw size 2.4 - 4.0 /  
10 mm - 60 mm

355-162



355-162

8 3/4" (22 cm) /  
Screw size 3.5 - 6.5 /  
10 mm - 90 mm

355-163



355-163

Screw size 3.5 - 6.5 /  
10 mm - 120 mm

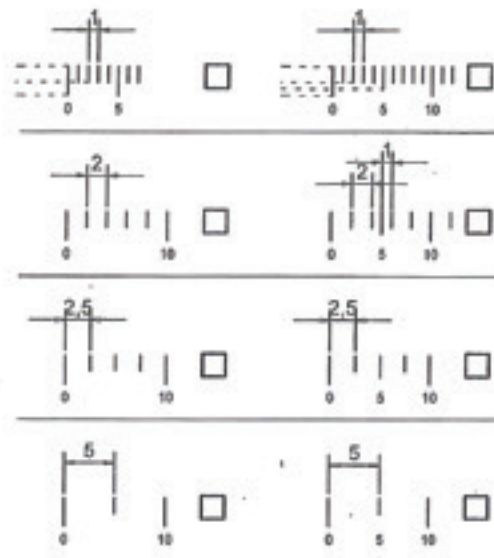
355-163L



355-163L

1.) Scale

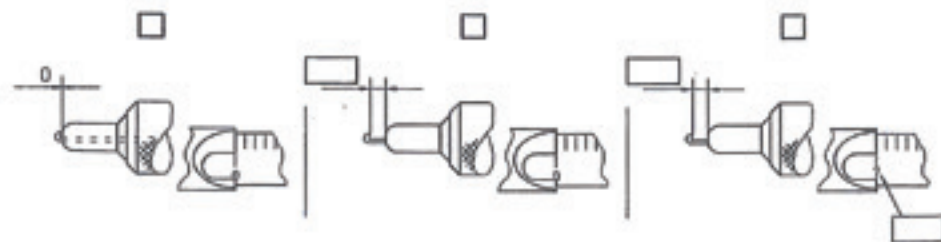
a.) Scale gradations  
please mark your desired scale design



b.) length of scale \_\_\_mm  
                                  \_\_\_mm

c.) customized scale (please add your drawing)

2.) Distance dimension of zero-point to the tip distance



**Depth Gauge EZ Clean**

355-170	1.2/1.5mm	screw size 0-30mm
355-171	2.0/2.4mm	screw size 0-30mm
355-171L	2.0/2.4mm	screw size 0-50mm
355-172	2.7mm	screw size 0-50mm
355-173	3.5/4.0mm	screw size 0-50mm
355-173L	3.5/4.0mm	screw size 0-80mm



355-170



355-171



355-171L



355-172



355-173



355-173L

**Mini Depth Gauge**

Screw size 1.5 / 10 mm - 30 mm  
355-161



355-161

**Cloward Depth Gauge**

7" (17.8 cm) / up to 45 mm  
355-161



355-164

**Taylor Micro Arthroscopic Pick**

Straight / 1.2 mm / 8" (20 cm)  
1271-120



1271-120

**T-Handle Bone Hook**

T-shaped phenolic handle /  
sharp tip / 7" (18 cm) shaft  
320-936

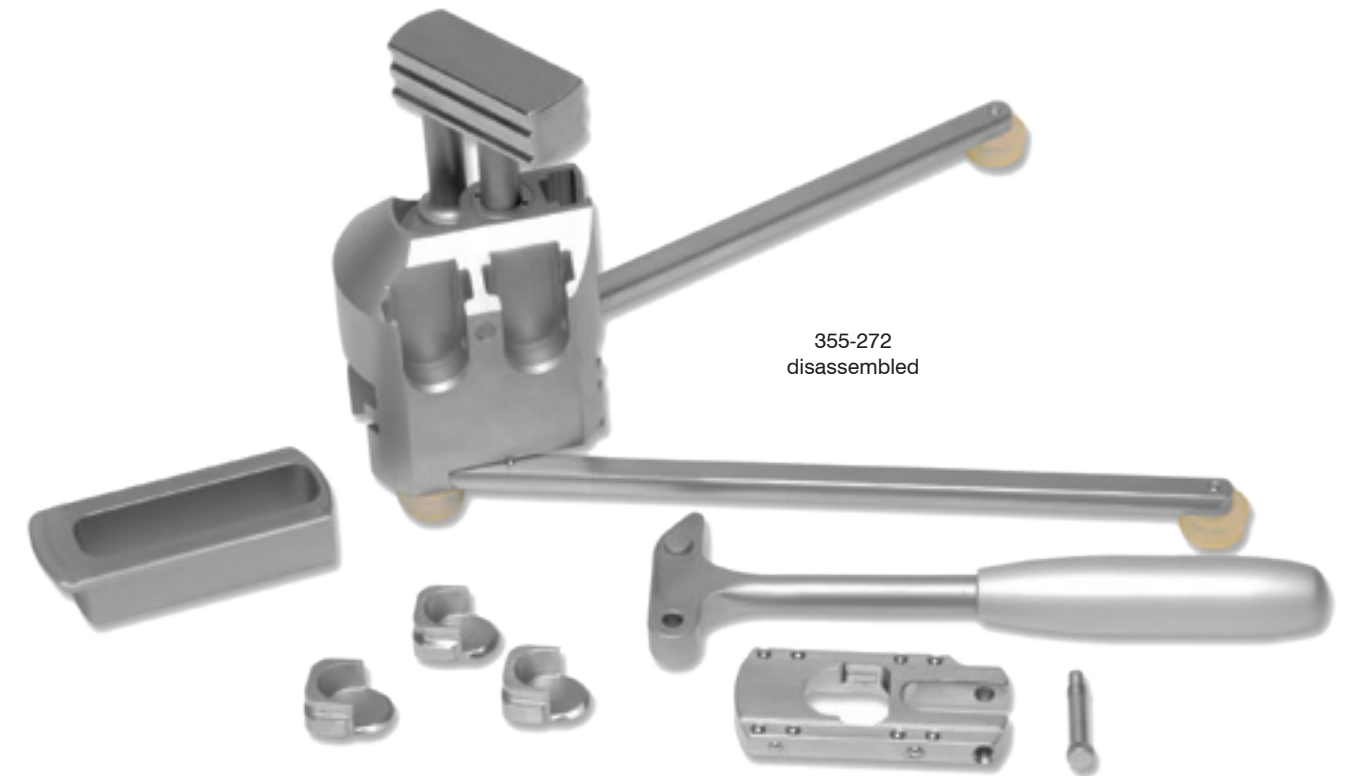


320-936

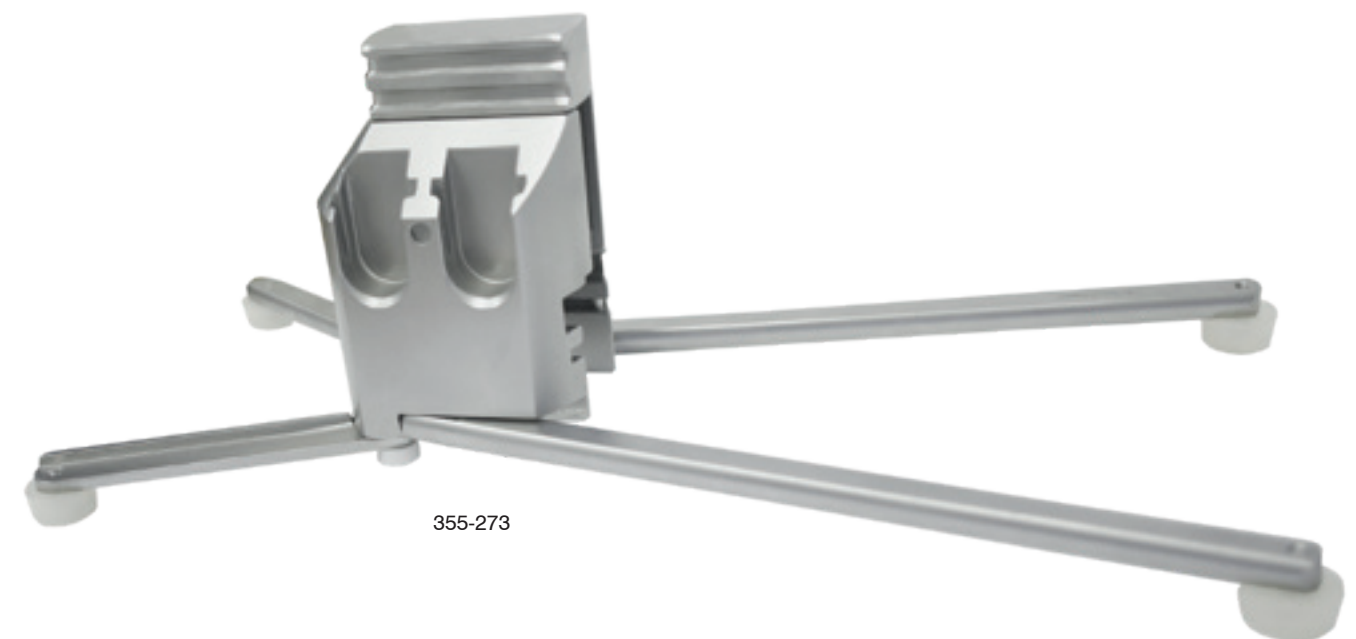
**Bone Scraper Set**

Includes bone grater attachment 1.0  
mm / 1.5 mm / 2.0 mm / 11" (28 cm)

355-272 two legs  
355-273 four legs



355-272  
disassembled



355-273

**Liska Awl**

T- handle / 3" shaft  
1271-342



1271-342

**Perthes Awl**

6" (15 cm)  
1271-340



1271-340

**Daniel Nasal Awl**

6 1/4" (10.8 cm)  
467-414



467-414

**Sontec 3 Prong Cast Spreader**

9" (23 cm)  
240-700



240-700

**Henning Cast Spreader**

10 3/4" (23 cm)  
240-695



240-695

**Lumbar & Cervical Impactor**

335-390	6.5 mm x 11.5 mm		8 1/2" (21.6 cm)
335-391	6 mm x 12.55 mm	narrow	8 3/4" (22.2 cm)
335-392	4.3 mm x 10 mm	micro lateral offset without heel	7" (17.8 cm)
335-393	4.3 mm x 10 mm	micro lateral offset with heel	7" (17.8 cm)
335-396	10 mm x 13 mm	micro lateral offset	8 3/4" (22.2 cm)
335-397	7 mm x 12.5 mm	guarded micro lateral	8 3/4" (22.2 cm)
335-398	10 mm x 13 mm	lateral wide	8 3/4" (22.2 cm)
335-399	7 mm x 12.5 mm	lateral wide	8 3/4" (22.2 cm)



335-390



335-391



335-392



335-393



335-396



335-397



335-398



335-399

**Hibbs Bone Chip Packer**

Hex handle / 10" (25.5 cm)

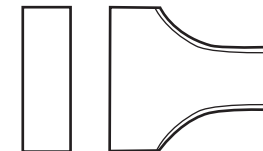
335-400	2 mm x 10 mm
335-404	6 mm x 10 mm
335-406	6 mm x 19 mm



335-400



335-404



335-406

**Lumbar Implant Holder/ Disk Marker**

Phenolic handle / sharp with 6mm bead tip / 12" (30.5 cm)

335-380



335-380

**Bone Tamp**

8" (20 cm)

- 1103-197A 5 mm
- 1103-197B 8 mm
- 1103-197C 12 mm



1103-197A`



1103-197B



1103-197C

**Bayonet / 5 mm / 9 1/2" (24.1 cm)**

1103-195



1103-195

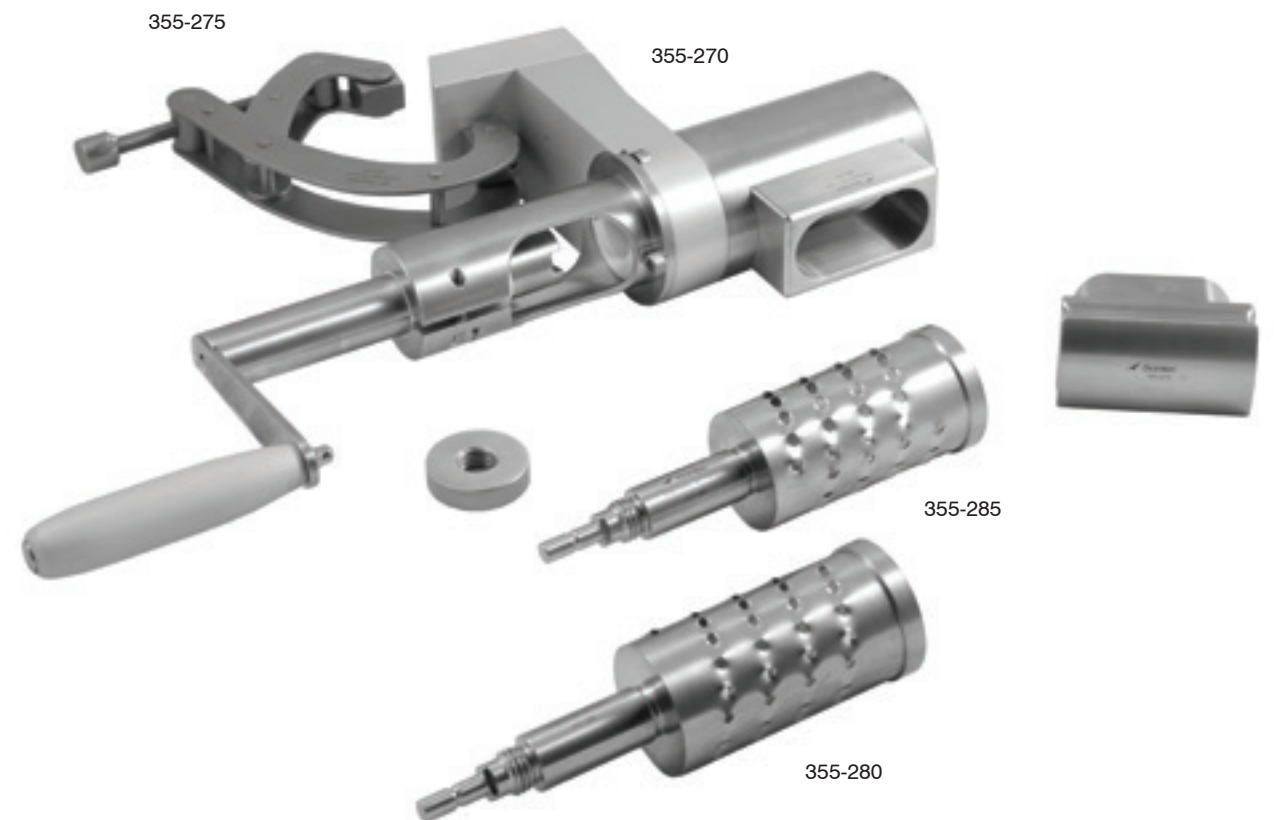
**Bone Mill Set**

- 355-270 bone mill (overall length 17")
- 355-275 table C-clamp for stationary positioning of bone mill
- 355-280 large (4.2 mm) cutting cylinder
- 355-285 small (3.2 mm) cutting cylinder
  
- 355-290 complete set



355-270

355-275

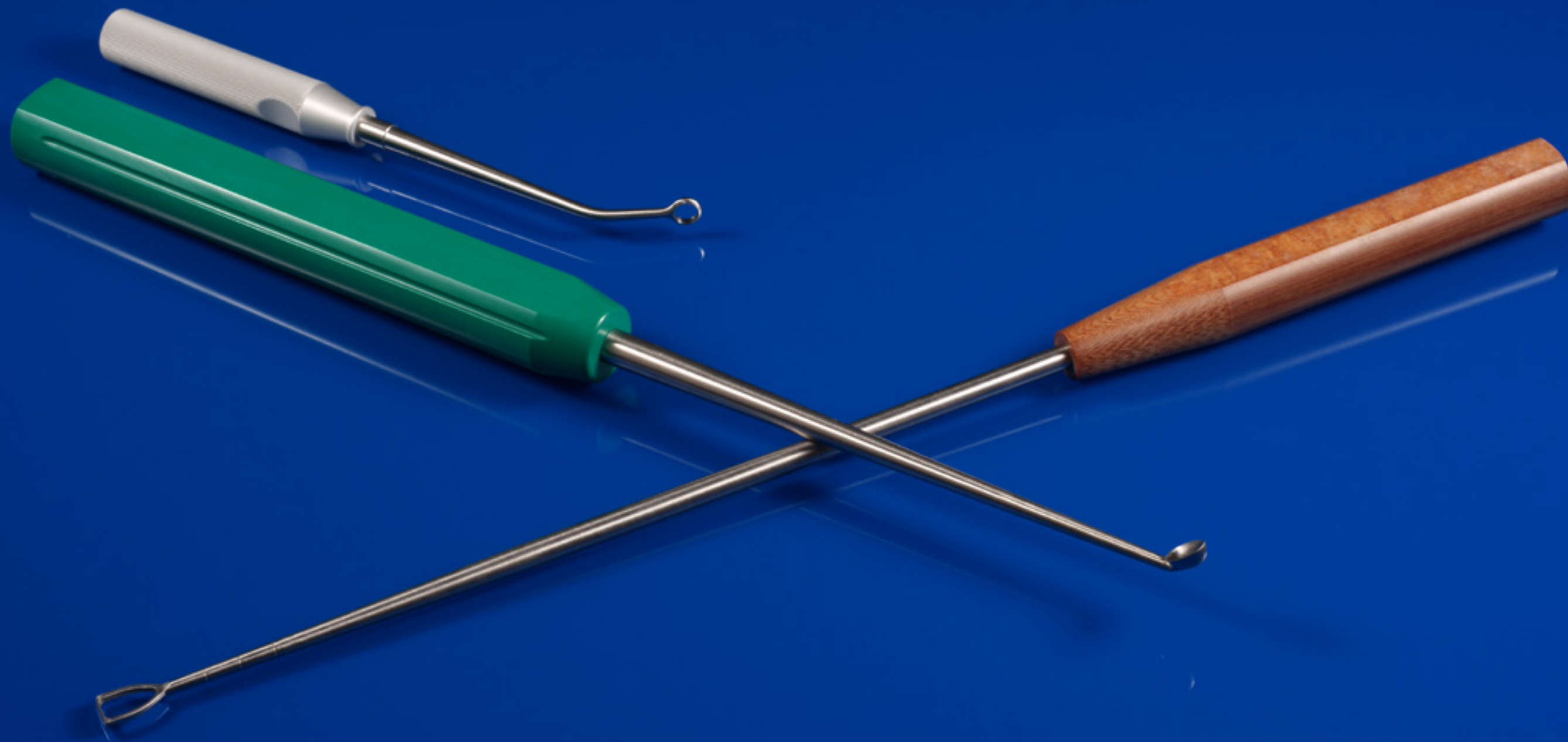


355-275

355-270

355-285

355-280



 Sontec Instruments®

Orthopedic Spinal Neuro CURETTES

**Lampert Curette**

Thin neck / oval cup / straight / 8" (20.5 cm)

- 320-826T size 000000
- 320-827T size 00000
- 320-829T size 0000
- 320-830T size 000
- 320-831T size 00
- 320-832T size 0
- 320-833T size 1
- 320-834T size 2



Thin neck / oval cup / angled / 8" (20.5 cm)

- 320-847T size 000000
- 320-848T size 00000
- 320-849T size 0000
- 320-850T size 000
- 320-851T size 00
- 320-852T size 0
- 320-853T size 1
- 320-854T size 2



320-827T



320-834T

**Bayonet Curette Titanium**

Bending Hypophysis Enucleator / 8 3/4" (22 cm)

413-040



413-040

**Bayonet Ring Curette Titanium**

8 3/4" (22.2 cm)

- 413-060 2.5 mm 45° up angle
- 413-061 3.0 mm 45° up angle
- 413-062 2.5 mm 40° down angle
- 413-063 3.0 mm 40° down angle
- 413-064 2.5 mm 90° up angle
- 413-065 3.0 mm 90° up angle

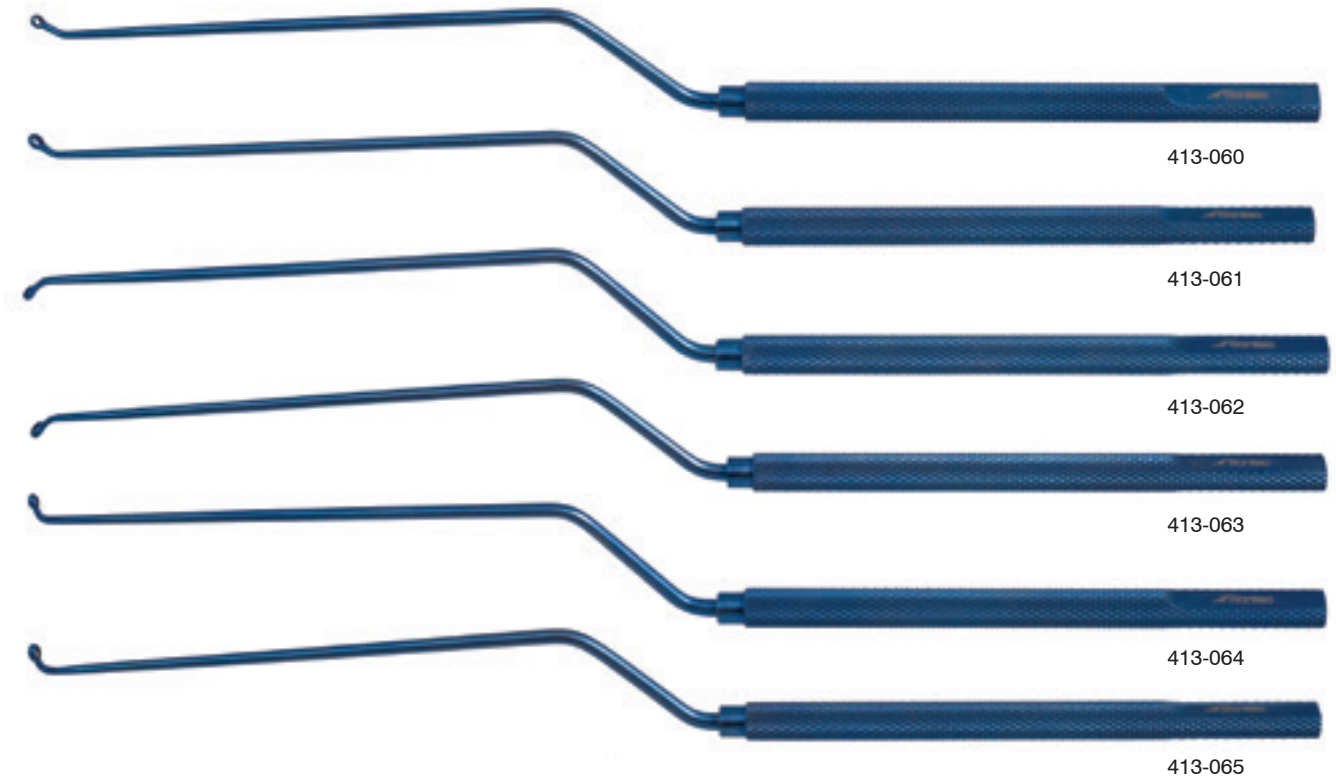


10 1/4" (25.26 cm)

- 413-050 3.0 mm 90° up angle
- 413-051 3.0 mm 90° down angle
- 413-052 2.25 mm 45° up angle

11" (28 cm)

- 413-055 3.0 mm 90° up angle
- 413-057 3.0 mm 40° down angle
- 413-058 2.25 mm 45° up angle



413-060

413-061

413-062

413-063

413-064

413-065

**Neuro Ring Curette**

Titanium / 8 1/4" (21 cm) / straight

- 413-044 2 mm
- 413-045 3 mm



413-044

**Down Pushing Curette**

Phenolic handle / 10 mm x 5 mm /  
9" handle / 15" (38 cm) / 380 mm

320-879



320-879

**O'Brien Curette**

Phenolic handle / 9"  
handle / 15" (38 cm)

320-924A 8mm  
320-924B 11 mm



320-924A

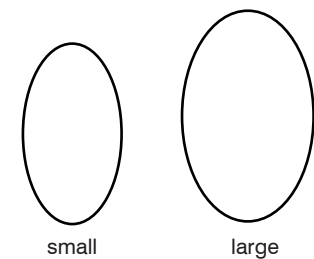
**Charnley Curette**

Phenolic handle / 9" handle /  
15" (38 cm) / 380 mm

320-869L large  
320-869S small



320-869L



small

large

**Tear Drop Spinal Curette**

Phenolic handle / 52 mm x 12 mm /  
11" (27.9 cm)

320-958 straight  
320-959 angled 15°

Phenolic handle / 52 mm x 12 mm /  
17" (43.2 cm)

320-960 straight  
320-962 angled 15°



320-958



320-960



320-962

**Spinal Curette**

Phenolic handle / straight / 11" (28 cm)

- 320-866 size 000
- 320-859 size 00
- 320-860 size 0
- 320-861 size 1
- 320-862 size 2
- 320-863 size 3
- 320-864 size 4
- 320-865 size 5



320-862



320-865



320-866

Phenolic handle / angled / 11" (28 cm)

- 320-866A size 000
- 320-859A size 00
- 320-860A size 0
- 320-861A size 1
- 320-862A size 2
- 320-863A size 3
- 320-864A size 4
- 320-865A size 5

**Extra Long Spinal Curette**

Phenolic handle / extra long / angled / 13" (33 cm)

- 320-920 size 0



320-920



**USA Curette**

Phenolic handle / oval cup / 5" handle / 11" (28 cm)

- 320-687 size 5/0
- 320-686 size 4/0
- 320-678 size 3/0
- 320-679 size 2/0
- 320-680 size 0
- 320-681 size 1
- 320-682 size 2
- 320-683 size 3
- 320-684 size 4
- 320-685 size 5



320-684



320-679

Phenolic handle / straight / 5" handle / 10" (25.5 cm) / 250 mm

- 320-922A size 2
- 320-922B size 3
- 320-922C size 4



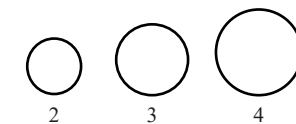
320-922C



320-922B

Phenolic handle / angled / 5" handle / 10" (25.5 cm) / 250 mm

- 320-923A size 2
- 320-932B size 3
- 320-923C size 4



**Cone Ring Two Handed Curette**

Phenolic handle / straight / 15" (38 cm) / 380 mm

- 320-881A size 1
- 320-881B size 2
- 320-881C size 3
- 320-881D size 4



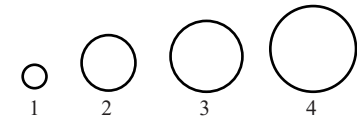
Phenolic handle / angled / 15" (38 cm) / 380 mm

- 320-882A size 1
- 320-882B size 2
- 320-882C size 3
- 320-882D size 4

320-881C

Phenolic handle / lateral angled / 15" (38 cm) / 380 mm

- 320-883A size 1
- 320-883B size 2
- 320-883C size 3
- 320-883D size 4



320-883C

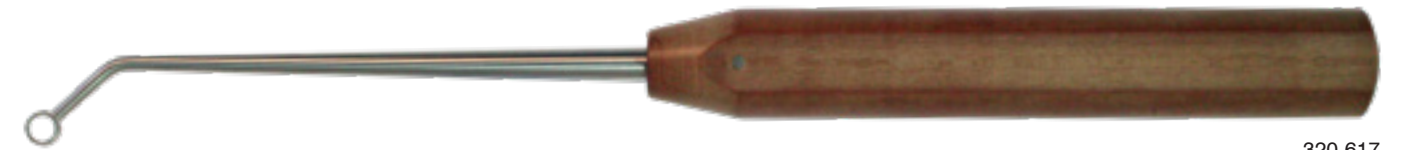
**Cone Ring Two Handed Curette**

Phenolic handle / 9mm / 14 1/2" (37 cm) / 370 mm

- 320-615 straight
- 320-617 40° lateral



320-615



320-617

Black handle / 9mm / 14 1/2" (37 cm) / 370 mm

- 320-615B straight
- 320-617B 40° lateral



**Two Handed Curette**

**Phenolic handle / serrated cup / 6mm x 9mm / 14 1/2" (37 cm)**

- 320-621 straight
- 320-622 30d up
- 320-623 45d cvd left
- 320-624 45d cvd right
- 320-625 90d



320-625

**Black handle / serrated cup / 6 mm x 9 mm / 14 1/2" (37 cm)**

- 320-621B straight
- 320-622B 30d up
- 320-623B 45d cvd left
- 320-624B 45d cvd right
- 320-625B 90d



\* Available in a green handle



320-621B



straight



30d up



45d curved left



45d curved right



90d

**Two Handed Curette**

**Black handle / 90° / 18" (45.7 cm)**

- 320-584 2 mm
- 320-585 3.8 mm
- 320-586 8 mm

**Black handle / 30° / 18" (45.7 cm)**

- 320-580 2 mm
- 320-581 2.8 mm
- 320-582 4 mm oval
- 320-583 7 mm

**Black handle / straight / 18" (45.7 cm)**

- 320-587 3 mm
- 320-588 7 mm

**Tear Drop Curette**

**Black handle / 11 mm teardrop / 18" (45.7 cm)**

- 320-589 straight
- 320-590 15 degree angled



320-588



320-587



320-580



320-581



320-582



320-583



320-584



320-585



320-586



320-589



320-590

**Long Handle Curette**

**Sharp / black handle / 16 1/2" (41.9 cm)**

- 320-626B teardrop
- 320-629B #3 angled
- 320-630B #6 angled

**Sharp / green handle / 16 1/2" (41.9 cm)**

- 320-626G teardrop
- 320-629G #3 angled
- 320-630G #6 angled



320-626G



320-626B



320-629G



320-630G



320-626G

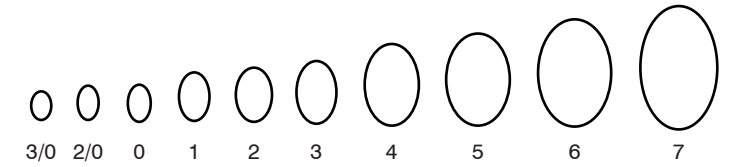


320-626B

**Two Handed Large Grip Curette**

**Phenolic handle / oval cup / straight / 7" handle / 13" (33 cm)**

- 320-658 size 3/0
- 320-659 size 2/0
- 320-660 size 0
- 320-661 size 1
- 320-662 size 2
- 320-663 size 3
- 320-664 size 4
- 320-665 size 5
- 320-666 size 6
- 320-667 size 7



320-663

**Phenolic handle / oval cup / straight / 9" handle / 15" (38 cm)**

- 320-638 size 3/0
- 320-639 size 2/0
- 320-640 size 0
- 320-641 size 1
- 320-642 size 2
- 320-643 size 3
- 320-644 size 4
- 320-645 size 5
- 320-646 size 6
- 320-647 size 7



320-639

**Phenolic handle / oval cup / straight / 7 1/2" handle / 16" (40.5 cm)**

- 320-670 size 5



**Phenolic handle / oval cup / with teeth / 9" handle / 15" (38 cm) / 380 mm**

- 320-634T size 4
- 320-636T size 6



320-636T



**Micro Spinal Curette**

Phenolic handle / straight / 4.5" handle / 9.5" (24 cm) / 240 mm

- 320-889A size 6/0
- 320-889B size 5/0
- 320-889C size 4/0
- 320-889D size 3/0
- 320-889E size 2/0
- 320-889F size 0



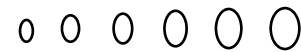
Straight



Angled



Rev. Angled



6/0 5/0 4/0 3/0 2/0 0

Phenolic handle / angled / 4.5" handle / 9.5" (24 cm) / 240 mm

- 320-888A size 6/0
- 320-888B size 5/0
- 320-888C size 4/0
- 320-888D size 3/0
- 320-888E size 2/0
- 320-888F size 0

Phenolic handle / rev. angled / 4.5" handle / 9.5" (24 cm) / 240 mm

- 320-887A size 6/0
- 320-887B size 5/0
- 320-887C size 4/0
- 320-887D size 3/0
- 320-887E size 2/0
- 320-887F size 0



320-889A



320-889B



320-889D

**Micro Axial Bayonet Regular Length Curette**

Phenolic handle / straight / 4.5" handle / 9.5" (24 cm) / 240 mm

- 320-886A size 6/0
- 320-886B size 5/0
- 320-886C size 4/0
- 320-886D size 3/0
- 320-886E size 2/0
- 320-886F size 0



320-886C



320-886E

Phenolic handle / angled / 4.5" handle / 9.5" (24 cm) / 240 mm

- 320-885A size 6/0
- 320-885B size 5/0
- 320-885C size 4/0
- 320-885D size 3/0
- 320-885E size 2/0
- 320-885F size 0

Phenolic handle / rev. angled / 4.5" handle / 9.5" (24 cm) / 240 mm

- 320-884A size 6/0
- 320-884B size 5/0
- 320-884C size 4/0
- 320-884D size 3/0
- 320-884E size 2/0
- 320-884F size 0



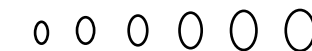
Straight



Angled



Rev. Angled



6/0 5/0 4/0 3/0 2/0 0

**Micro Axial Bayonet Long Curette**

Phenolic handle / long shaft / straight / bayonet / 5" handle / 12" (32 cm)

- 320-803A 1 mm
- 320-803B 2 mm
- 320-803C 3 mm
- 320-803D 4 mm
- 320-803E 5 mm
- 320-803F 6 mm

Phenolic handle / long shaft / angled / bayonet / 5" handle / 12" (32 cm)

- 320-804A 1 mm
- 320-804B 2 mm
- 320-804C 3 mm
- 320-804D 4 mm
- 320-804E 5 mm
- 320-804F 6 mm

Phenolic handle / long shaft / rev. angled / bayonet / 5" handle / 12" (32 cm)

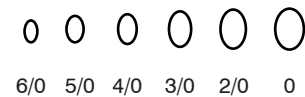
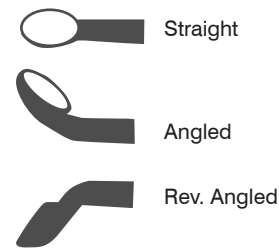
- 320-805A 1 mm
- 320-805B 2 mm
- 320-805C 3 mm
- 320-805D 4 mm
- 320-805E 5 mm
- 320-805F 6 mm



320-804C



320-805B



**Micro Axial Bayonet Extra Long Curette**

Phenolic handle / long shaft / straight / bayonet/ 5" handle / 14" (35.5 cm)

- 320-800A 1 mm
- 320-800B 2 mm
- 320-800C 3 mm
- 320-800D 4 mm
- 320-800E 5 mm
- 320-800F 6 mm

Phenolic handle / long shaft / angled / bayonet / 5" handle / 14" (35.5 cm)

- 320-801A 1 mm
- 320-801B 2 mm
- 320-801C 3 mm
- 320-801D 4 mm
- 320-801E 5 mm
- 320-801F 6 mm

Phenolic handle / long shaft / rev. angled / bayonet / 5" handle / 14" (35.5 cm)

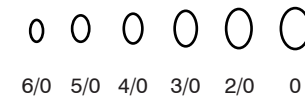
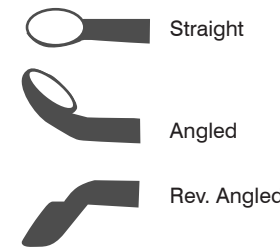
- 320-802A 1 mm
- 320-802B 2 mm
- 320-802C 3 mm
- 320-802D 4 mm
- 320-802E 5 mm
- 320-802F 6 mm



320-801E



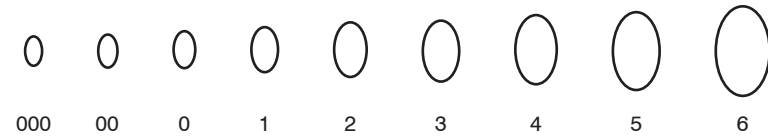
320-802D



**Spinal Fusion Curette**

**Oval cup / 9" (23 cm)**

320-866-9-000	straight	size 000
320-866-9-00	straight	size 00
320-860-9-0	straight	size 0
320-861-9-1	straight	size 1
320-862-9-2	angled	size 2
320-863-9-3	straight	size 3
320-864-9-4	angled	size 4
320-865-9-5	straight	size 5
320-867-9-6	angled	size 6



320-866-9-00

**Anterior Spinal Curette**

**Hollow knurled handle / oval cup / straight / 15" (38 cm)**

320-868-15-00	straight	size 00
320-868-15-1	straight	size 1
320-868B-15-6	bayonet	size 6



320-868-15-1

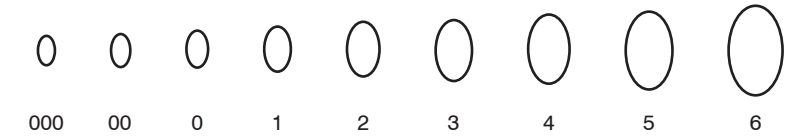


320-868-15-6

**Cobb Spinal Curette**

**Hollow knurled handle / oval cup / straight / 11" (28 cm)**

320-896	size 000
320-897	size 00
320-898	size 0
320-899	size 1
320-900	size 2
320-901	size 3
320-902	size 4
320-903	size 5
320-904	size 6



**Hollow knurled handle / oval cup / angled / 11" (28 cm)**

320-910	size 000
320-911	size 00
320-912	size 0
320-913	size 1
320-914	size 2
320-915	size 3
320-916	size 4
320-917	size 5
320-918	size 6



320-896



320-913



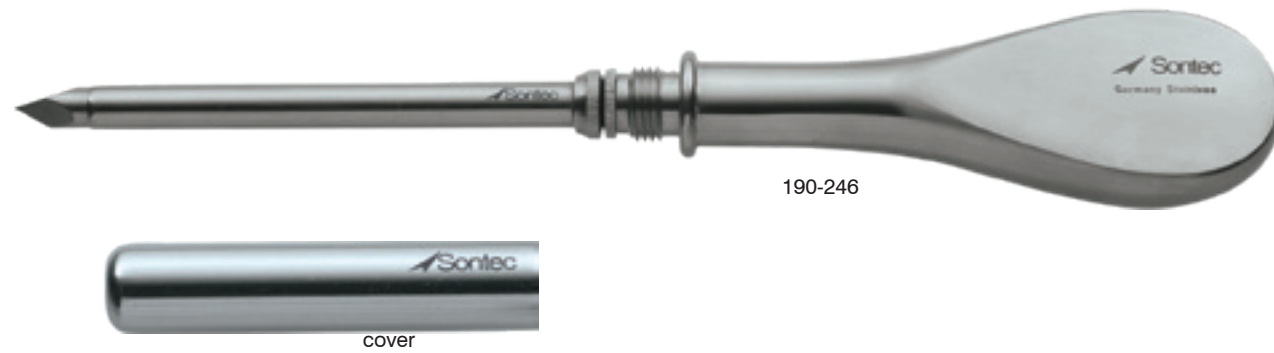
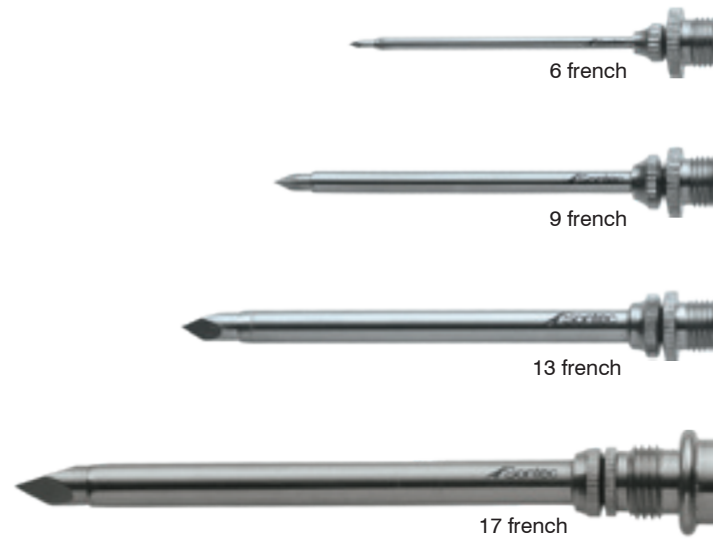
 Sontec Instruments®

Orthopedic TREPHINE

**Nested Trocar Set**

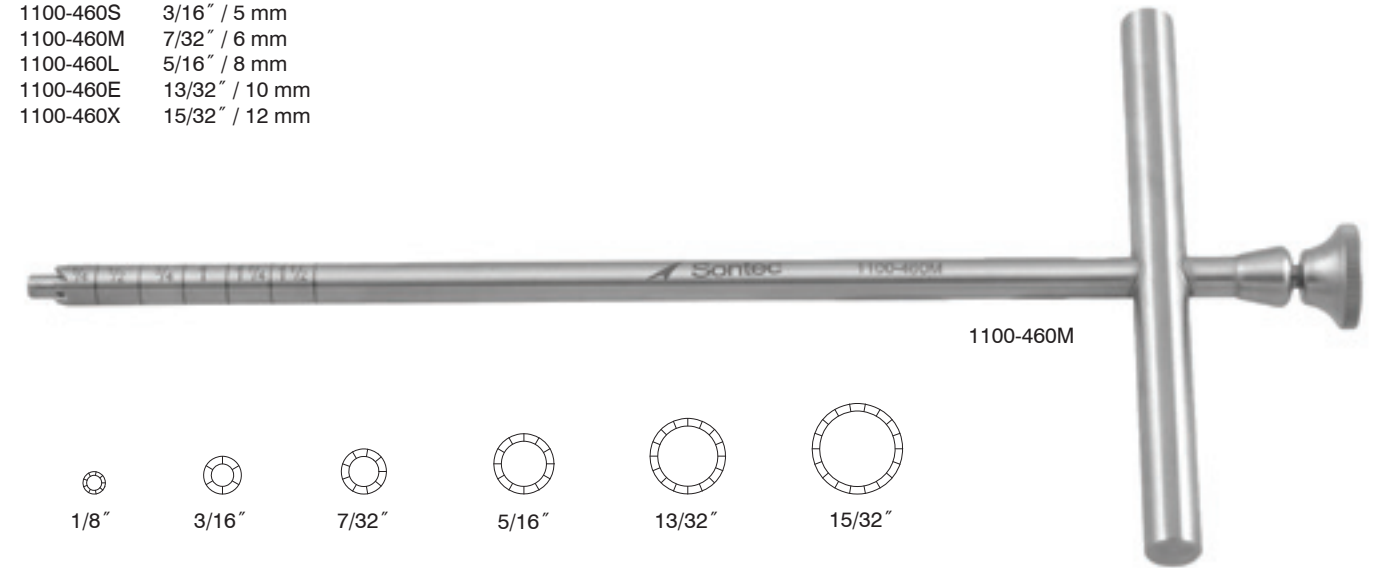
6 1/2" (16.5 cm)

190-246 set includes:  
6 french  
9 french  
13 french  
17 french  
handle & cover



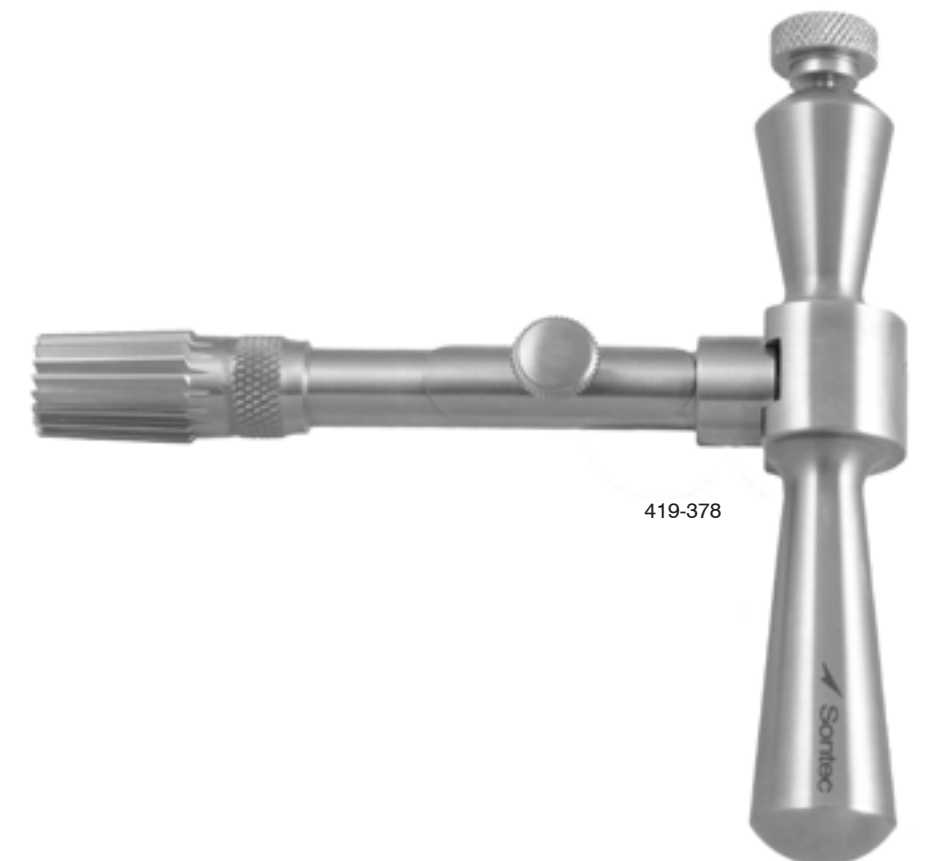
**Michele Trephine**

1100-460T	1/8" / 3 mm	special diameter
1100-460S	3/16" / 5 mm	
1100-460M	7/32" / 6 mm	
1100-460L	5/16" / 8 mm	
1100-460E	13/32" / 10 mm	
1100-460X	15/32" / 12 mm	



**Galt Trephine**

419-378	1/2" / 13 mm
419-380	5/8" / 16 mm
419-382	3/4" / 19 mm
419-384	7/8" / 22 mm
419-386	1" / 25 mm



**Shepard Ram Obturator**

5 1/2" (14 cm)

- SC94-0412 5 mm
- SC94-0417 6 mm
- SC94-0422 8 mm



**Shepard Trocar**

5 1/2" (14 cm)

- SC94-0411 5 mm
- SC94-0416 6 mm
- SC94-0421 8 mm

**Shepard Cylindrical Osteotome**

5" (13 cm)

- SC94-0410 5 mm
- SC94-0415 6 mm
- SC94-0420 8 mm



**Shepard Cross Pin**

4 1/2" (11.5 cm)

- SC94-0405



**Plug Cutter**

With Obturator / 4 1/2" (11.4 cm)

- 419-392 3 mm/ 5 mm

With Obturator / 6 1/2" (16.5 cm)

- 419-393 5 mm/ 7 mm
- 419-394 7 mm/ 9 mm
- 419-395 10 mm/ 12 mm
- 419-396 12 mm/ 14 mm
- 419-397 20 mm/ 22 mm
- 419-398 22 mm/ 25 mm



**Bespoke Wroblewski Bone Trepine**

O/D 8 mm I/D 6 mm

- 419-388





 Sontec Instruments®

Orthopedic VISE GRIP PLIERS

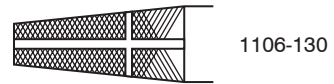
**Wire Extraction Pliers**

7" (18 cm)

1106-130	cross-serrated	6 mm	grooved jaw
1106-131	cross-serrated	3 mm	
1106-132	serrated	3 mm	



1106-131



1106-130



1106-131



1106-132

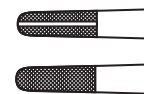
**Pin Pulling Pliers**

TC / one grooved jaw / 3 mm tip / 5 1/2" (14 cm)

1106-140



1106-140



**Needle Nose Pliers**

Stainless

1103-144	5 1/2" (14 cm)	
1103-145	6" (15 cm)	delicate
1106-133	7 3/4" (20 cm)	



1103-144



1103-145



1106-133

**Needle Nose Locking Pliers**

- 1103-137S 8 5/8" (21.75 cm)
- 1103-137M 10" (25 cm)
- 1103-137L 11 3/4" (29.5 cm)



**Slap Hammer/Hip Dislodger**

Modified / locking pliers / with slide hammer  
355-300



**Vise Grip Pliers**

Locking adjustable jaws

- 1103-133S 7" (18 cm)
- 1103-133M 8" (20 cm)
- 1103-133L 9 1/2" (24 cm)



**Slip Joint Pliers**

Stainless

- 1103-142 6" (15 cm)
- 1103-141 8" (20 cm)





 Sontec Instruments®

Orthopedic WIRE PASSERS

**Sontec Single End Wire Passer**

Phenolic handle / 45 mm / 9" (22 cm)

1103-166

70 mm / 10 1/2" (27 cm)

1103-166X

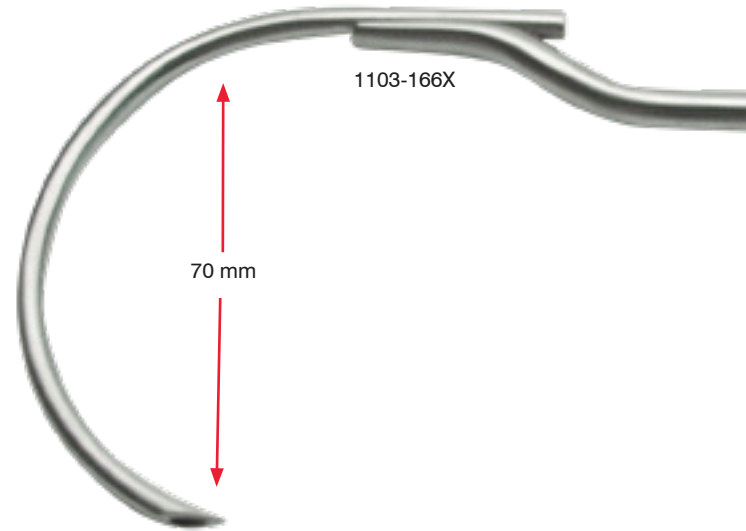
45 mm / 8 3/8" (21.5 cm)

1103-167

Phenolic handle / with thick tubing wall /

9" (23 cm)

1103-165



**Hybrid Herbst Wire Passer**

Phenolic handle / single end / 10 1/2" (26.7 cm)

1103-1661 45mm

1103-1662 70mm



**Herbst-Doolen Wire Passer**

Double-ended / small / medium / 5 1/2"  
(14 cm) / for 20-26 gauge wire

1103-841



1103-841

**Herbst Wire Passer**

Double-ended / 5 1/2" (14 cm)  
/ for 18-26 gauge wire

1103-160



1103-160

**Avian Mini Wire Passer**

For 22-26 gauge wire

1103-848 single ended 22 gauge 4 1/2"

1103-848S single ended 26 gauge 4 1/2"

1103-847 double ended 22-26 gauge 5"



1103-848



1103-847



 Sontec Instruments®

Orthopedic WIRE PIN CUTTERS

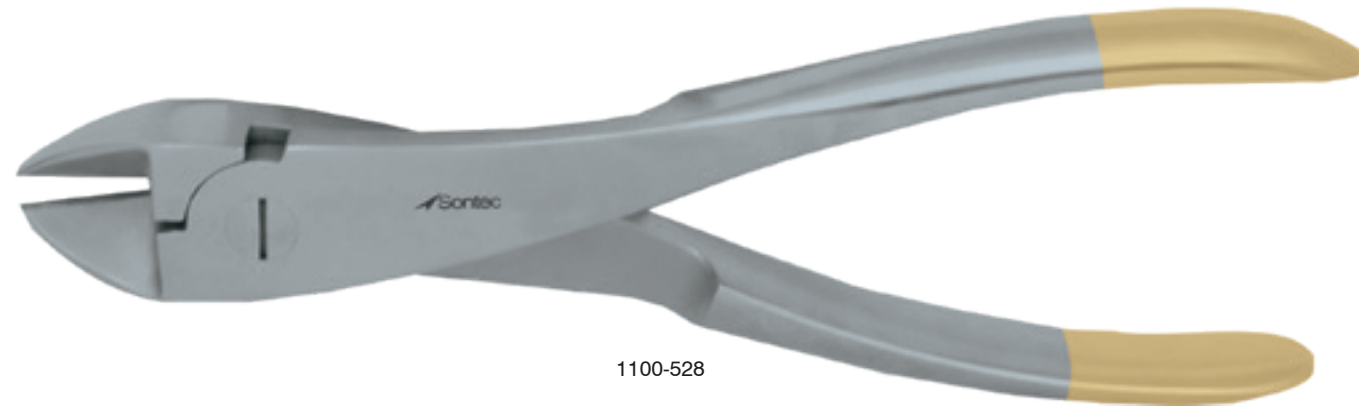
**Wire Side Cutter**

TC

1103-115	5 3/4" (14.5 cm)	cuts wire up to 1.0 mm
1100-528	7 1/2" (19 cm)	cuts wire up to 1.6 mm
1100-528D	8" (20 cm) Deluxe	cuts wire up to 1.6 mm



1103-115



1100-528

**Plate Cutter for Titanium Plates**

Cuts up to 1.8 mm MAX / 6 1/2" (16.5 cm)

355-219

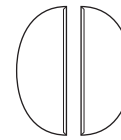


355-219

**Wire End Cutter**

TC / cuts wire up to 1.5 mm / 5 3/4" (14.5 cm)

1103-110



1103-110

**TC Pin Cutter**

Cuts pins up to 2 mm / 6 1/2" (16.5 cm)

355-196



355-196

**End Pin Cutter**

Cannulated / cuts pins up to 1.6 mm / single action / 7 1/2" (19 cm)

1103-109  
1103-108 TC

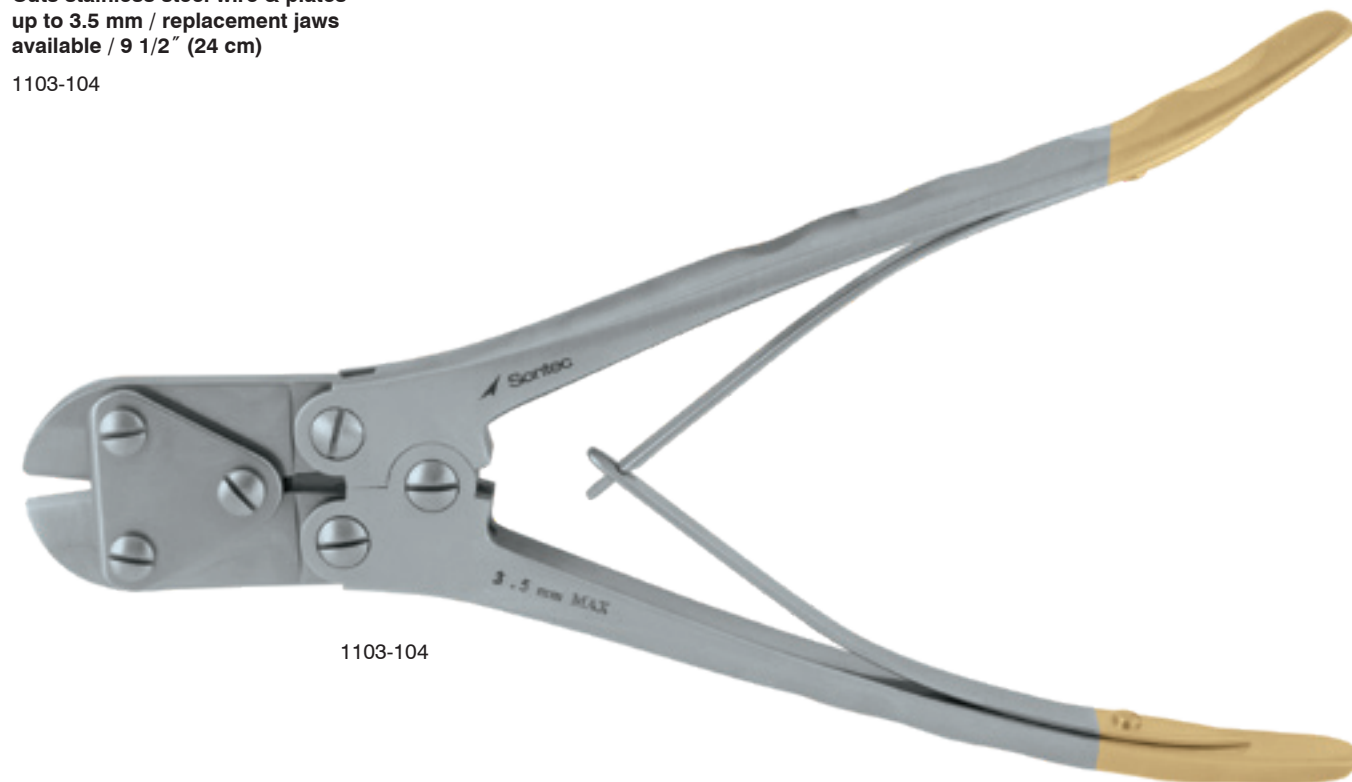


1103-109

**Large Plate & Pin Cutter**

Cuts stainless steel wire & plates up to 3.5 mm / replacement jaws available / 9 1/2" (24 cm)

1103-104

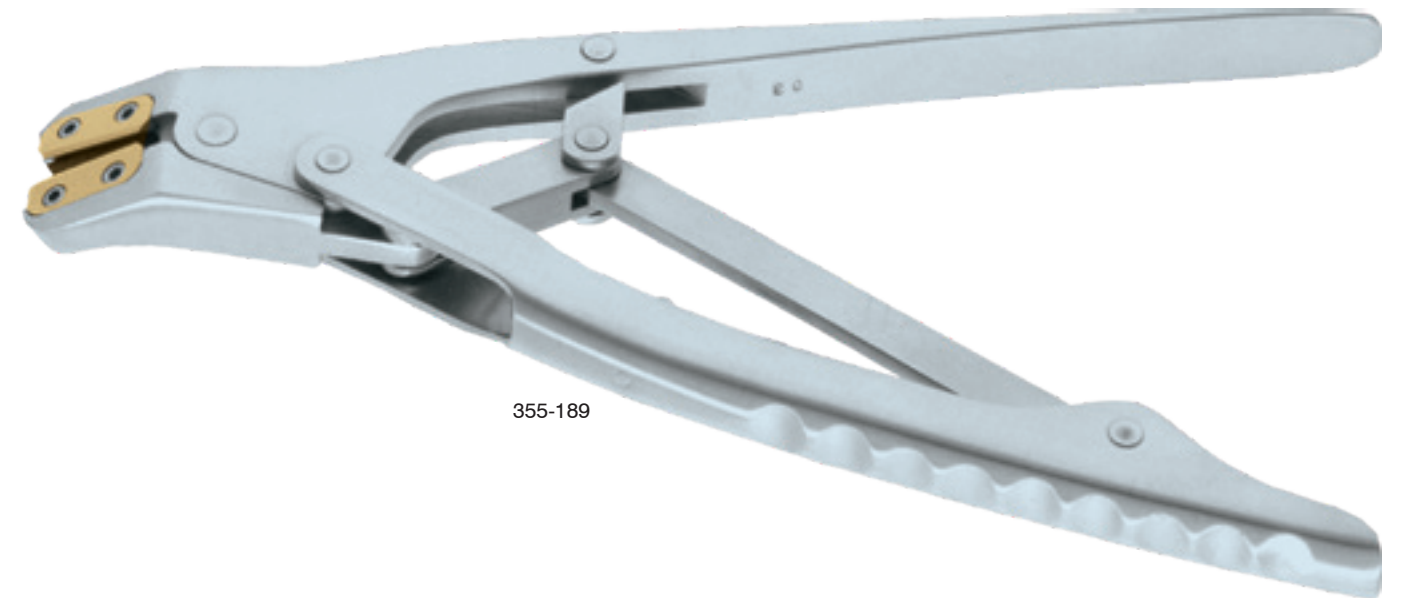


1103-104

**GOLD-CUT HERCULES® Pin Cutter**

Cuts pins up to 3 mm / exchangeable TC blades / over 40% less power required / exchangeable rubber jaws / fully sterilizable / 9" (23 cm)

355-189 wire cutter  
355-190 TC Blades Replacement Set  
355-193 Rubber Jaws Replacement Set

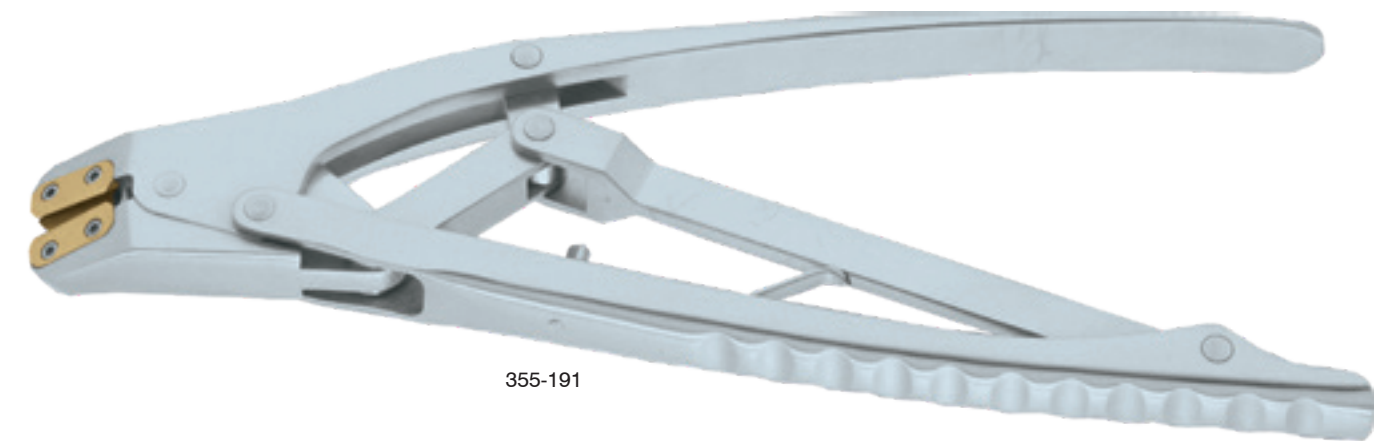


355-189

**The Big GOLD-CUT HERCULES® Pin Cutter**

Cuts pins 2.5 mm - 4.0 mm / exchangeable TC Blades / over 40% less power required / exchangeable rubber jaws / fully sterilizable / 11" (28 cm)

355-191 wire cutter  
355-192 TC Blades Replacement Set  
355-193 Rubber Jaws Replacement Set

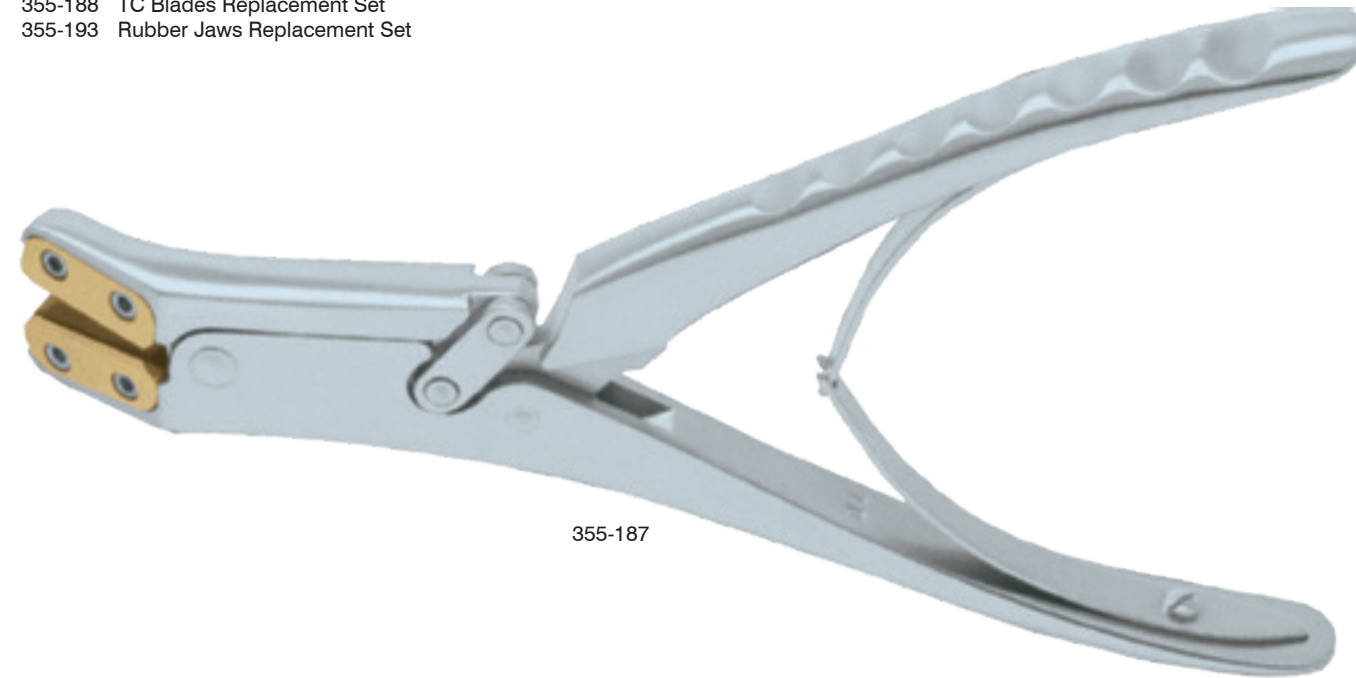


355-191

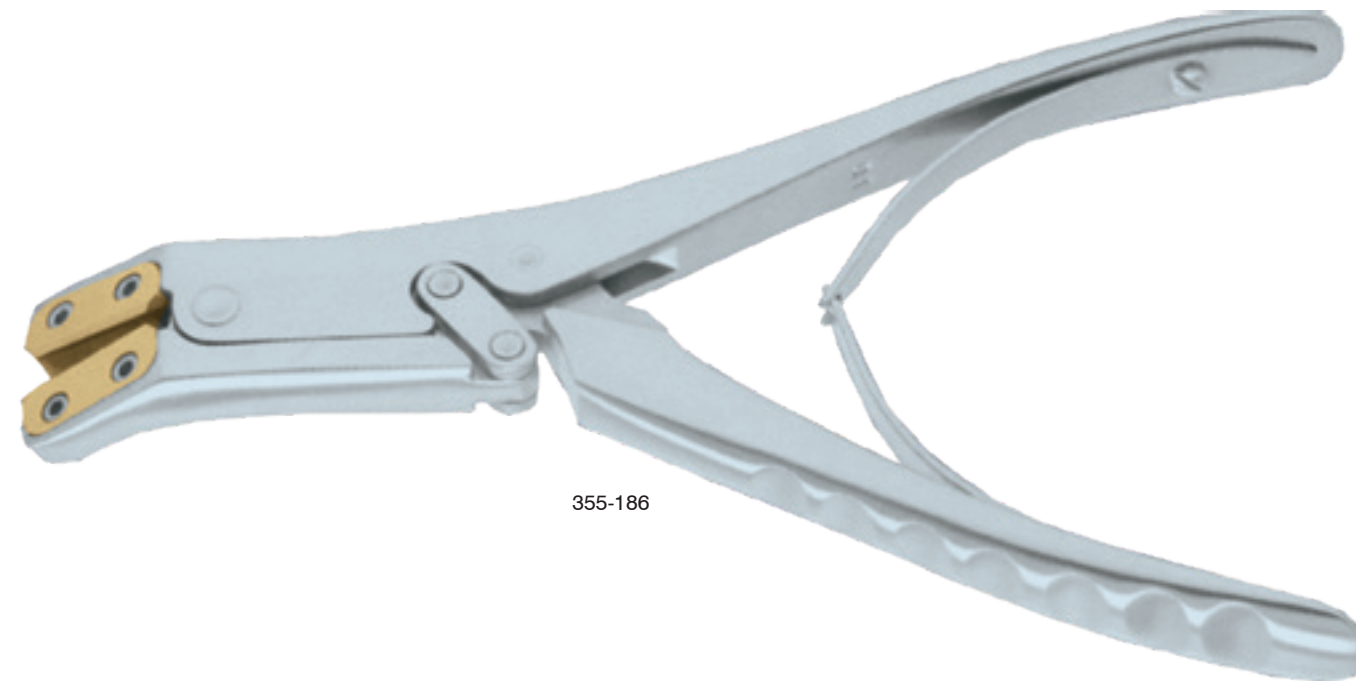
**Baby GOLD-CUT HERCULES® Pin Cutter**

Cuts pins up to 2.2 mm / exchangeable TC blades / over 40% less power required / exchangeable rubber jaws / fully sterilizable / 7" (18 cm)

- 355-187 left-handed
- 355-186 right-handed
- 355-188 TC Blades Replacement Set
- 355-193 Rubber Jaws Replacement Set



355-187



355-186

**Double Action Wire Cutter**

Cuts wire up to 1.6 mm / TC / 6 1/4" (16 cm)

1100-530A



1100-530A

**Micro Double Action Wire Cutter**

Cuts wire up to 1.6 mm / TC / 6 1/2" (16.5 cm)

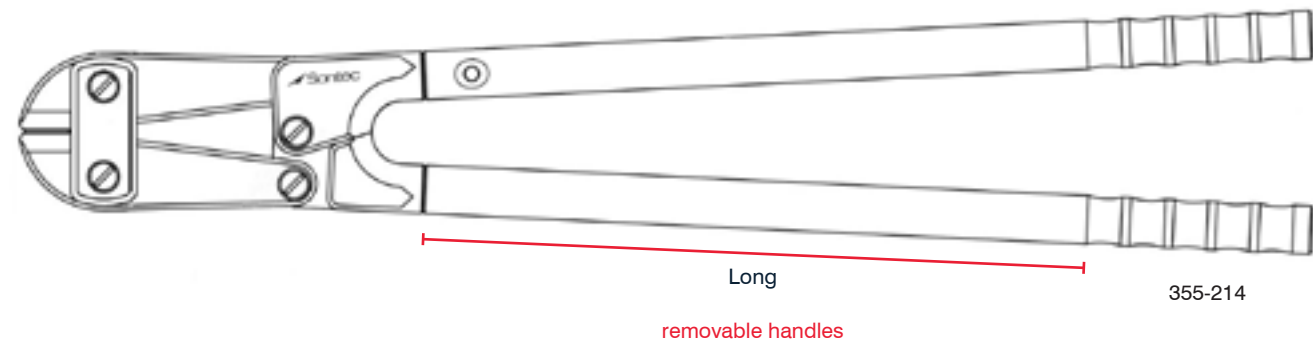
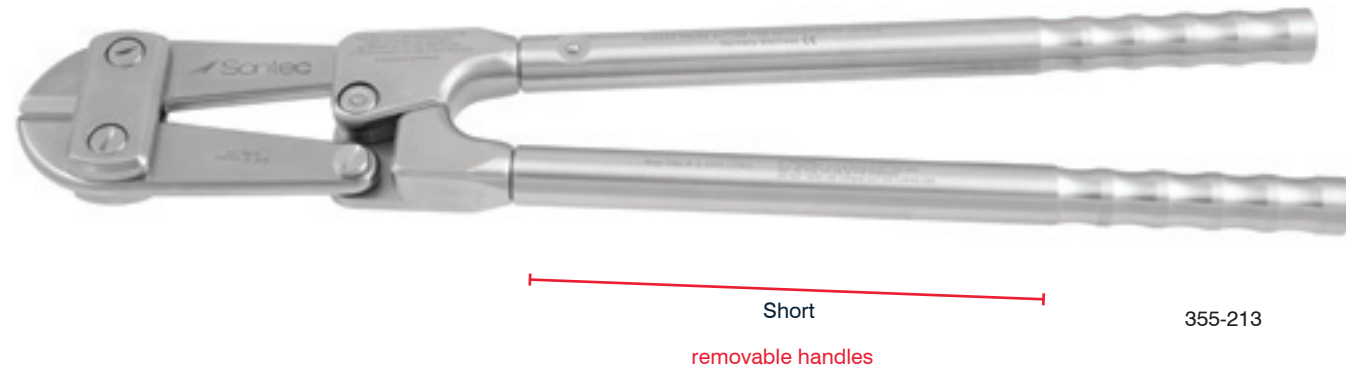
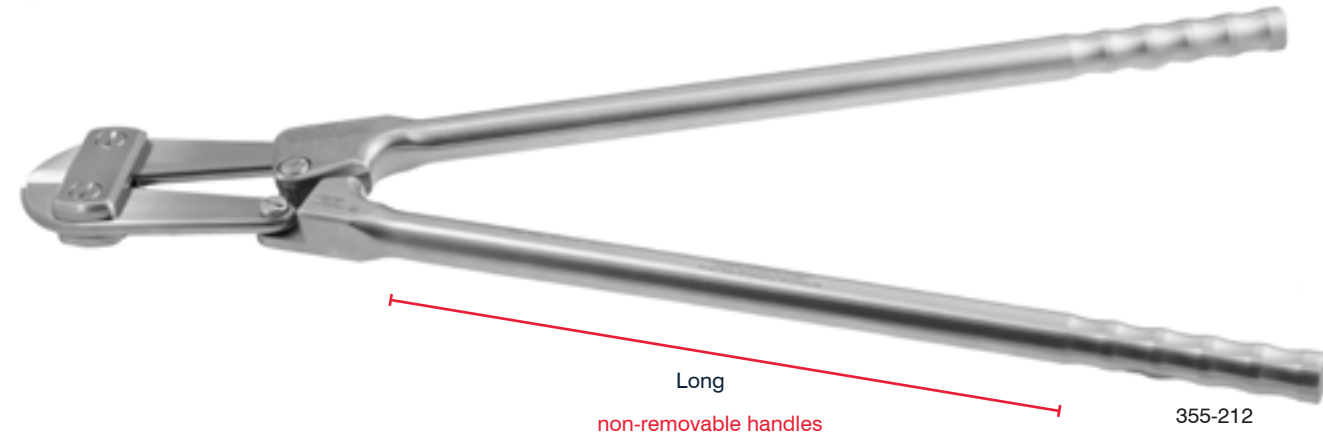
1100-531



**Large Pin / Bolt Cutter**

Cuts pins up to 6.3 mm / replaceable jaws

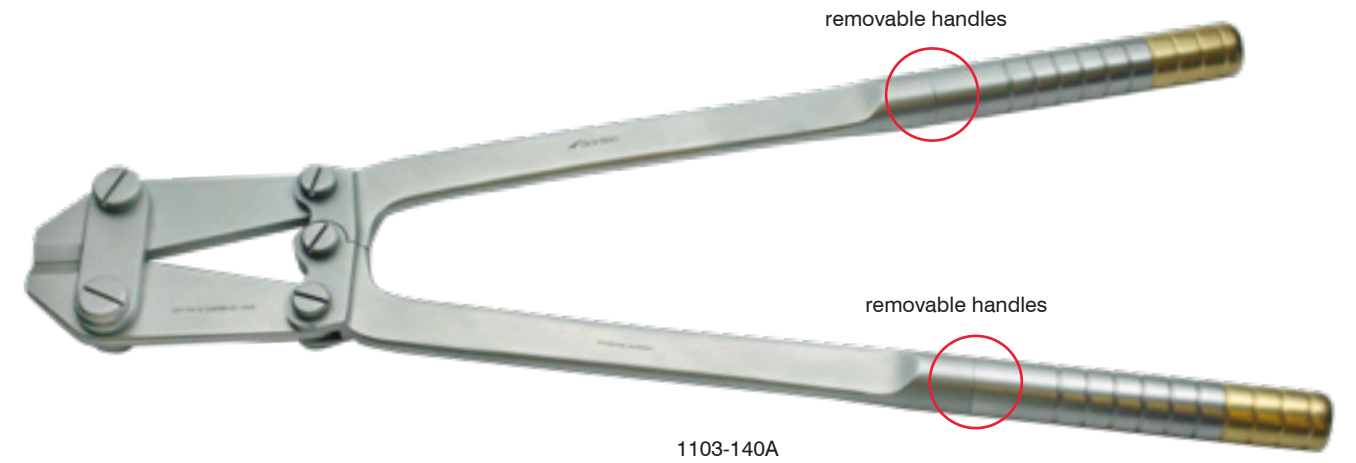
355-212	non-removable handles	22 1/2"
355-213	compact removable handles	18 1/2"
355-214	removable handles	22 1/2"



**TC Pin Cutter**

Cuts pins up to 6.0 mm / replaceable jaws

1103-140	19" (48 cm)	special order
1103-140A	19" (48 cm)	handles are removable for smaller autoclaves



**Pin Cutter Specialty Harden Jaws**

Cuts pins up to 4 mm

1103-140J	15" (38 cm)
-----------	-------------



**Double Action Wire Cutter**

Angled to the side / TC

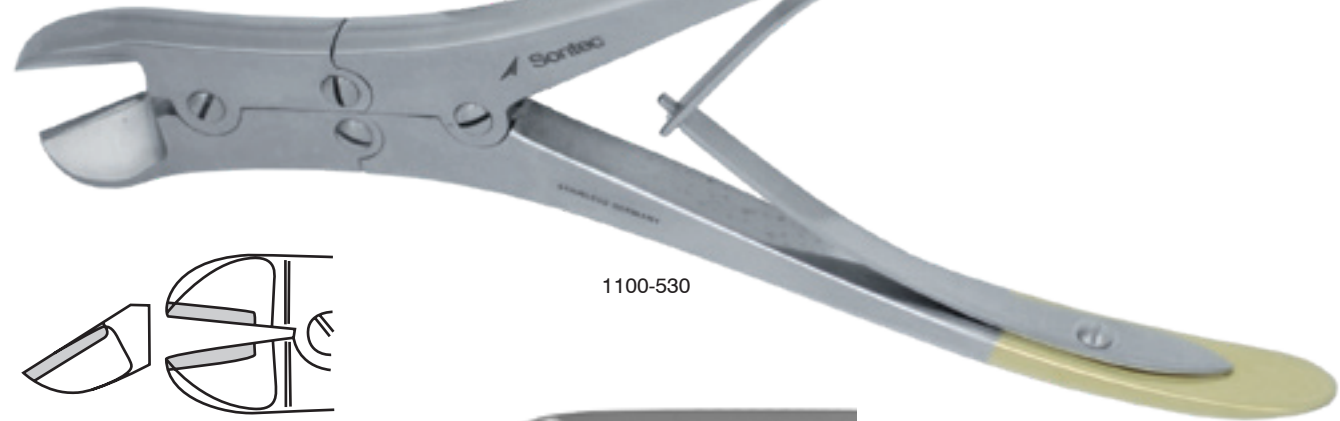
1100-529 7 1/4" (18 cm)

Cuts wire up to 1.6 mm / TC

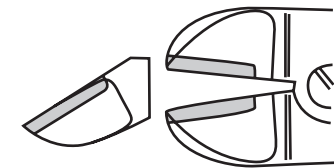
1100-530 7" (18 cm)



1100-529



1100-530



TC / Cuts wire up to 2.2 mm / 8 3/4" (22 cm)

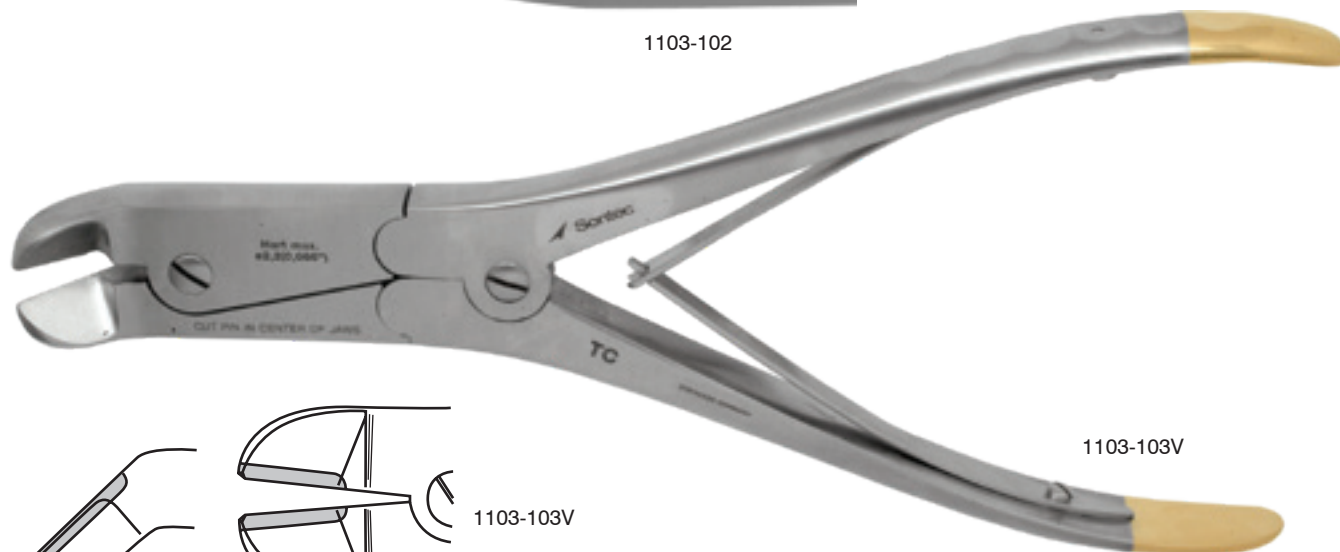
1103-102 15° angle

1103-103V 30° angle

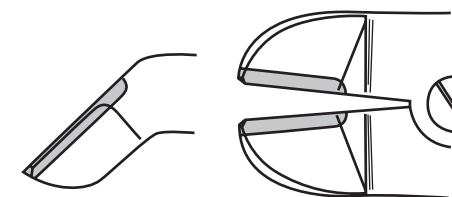


CUT PIN IN CENTER OF JAW

1103-102



1103-103V



1103-103V

**Sontec Pin Cutter**

With TC inserts / max cap ø 4 mm / 15" (38 cm)

355-209



355-209

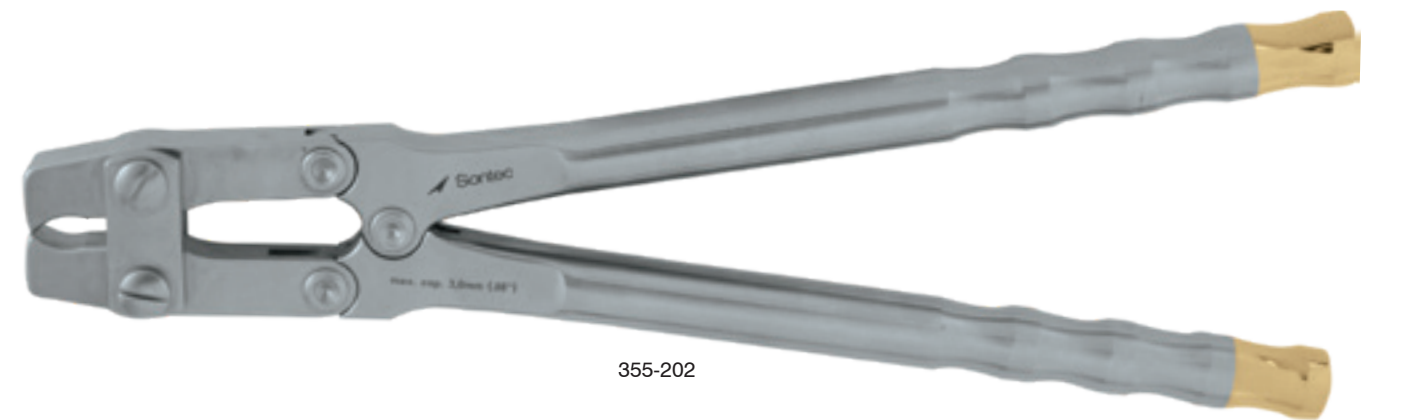
**Pin End Cutter**

Cuts pins up to 3 mm / 10" (25 cm)

355-202

Cuts pins up to 4.7 mm / 14" (35.5 cm)

355-210



355-202

**Rod Cutter**

Cuts rods  $\varnothing$ 2.5 mm,  $\varnothing$ 3.0 mm,  
 $\varnothing$ 3.5 mm / 11 1/2" (29.2 cm)

355-207



355-207

**Rod Flush Cutter**

With removable handle / cuts rods  $\varnothing$ 4.5  
mm,  $\varnothing$ 5.5 mm,  $\varnothing$ 6.35 mm / 22" (57 cm)

355-211



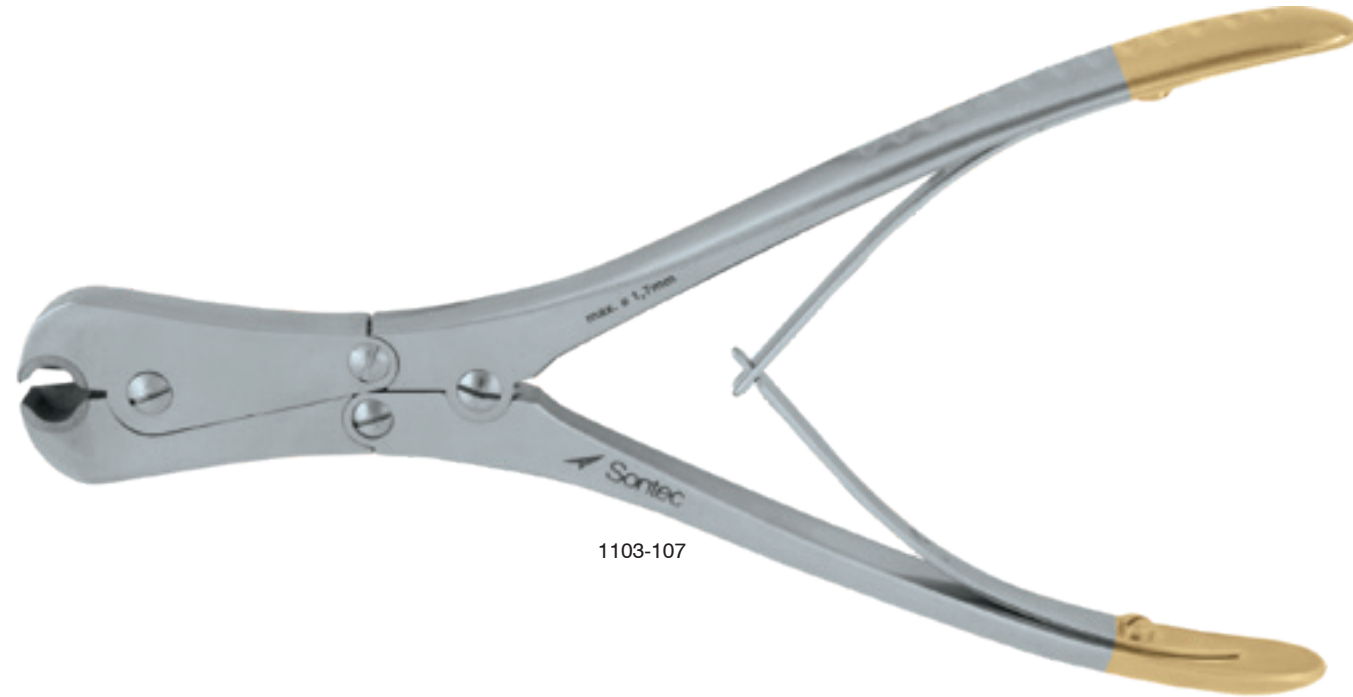
355-211



**Wire End Cutter**

TC / double-action / 7"  
(18 cm)

1103-107

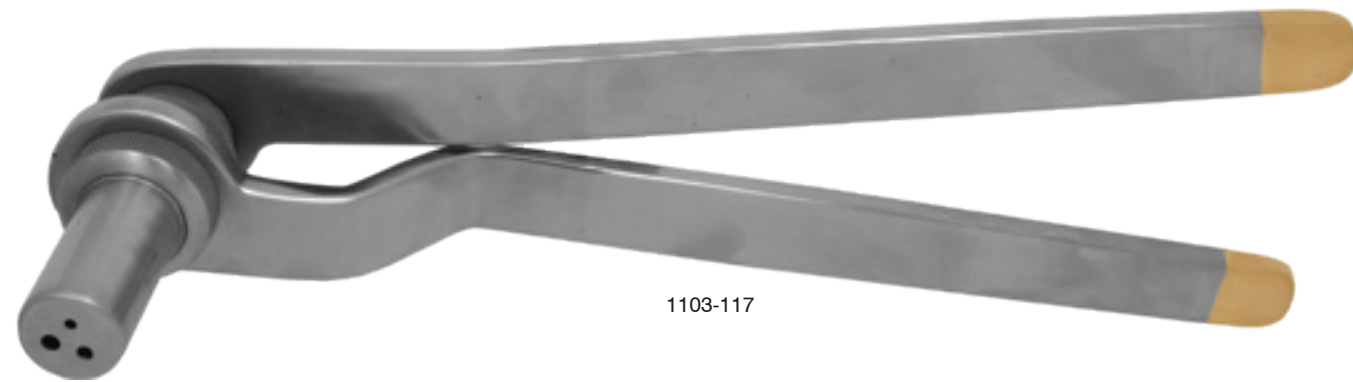


1103-107

**Flush Cut Pin Cutter**

With enclosed cutting design /  
cuts pins up to 4 mm / 12" (30 cm)

1103-117



1103-117

**Wire End Cutter**

TC / double-action / cuts wire  
up to 1.5 mm / 6 1/4" (16 cm)

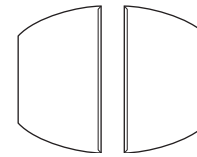
1103-105 mini

TC / double-action / Cuts wire  
up to 2.5 mm / 8 1/2" (21.5 cm)

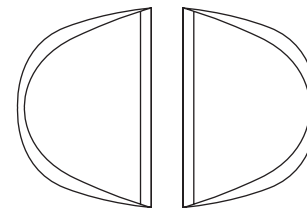
1103-100 extra large



1103-105



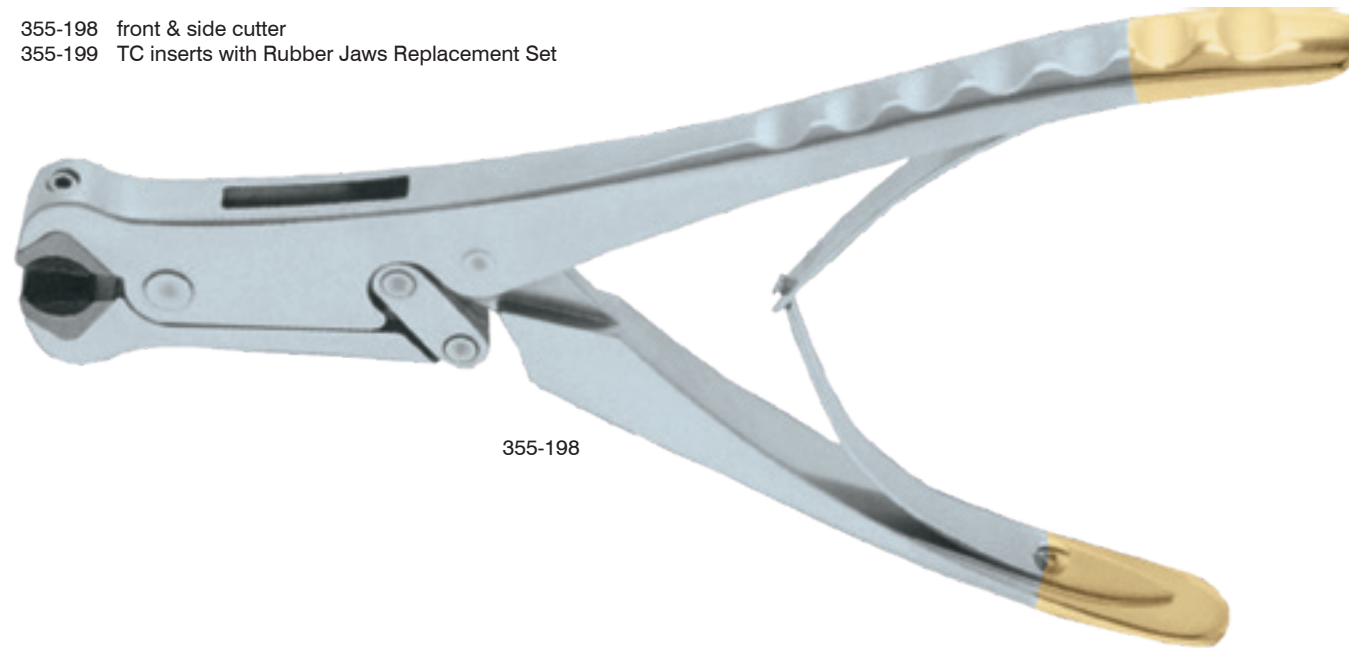
1103-100



**GOLD-CUT HERCULES® Front & Side Pin Cutter**

Cuts pins up to 1.6 mm / over 40% less power required / exchangeable TC blades with integrated rubber jaws / fully sterilizable / 7" (18 cm)

355-198 front & side cutter  
355-199 TC inserts with Rubber Jaws Replacement Set

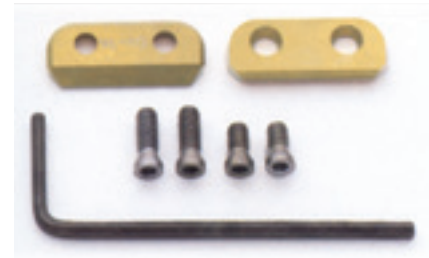


355-198

**TC Blades Replacement Set For Hercules Wire Cutter**

1 pair of TC blades / 1 pair of screws / 1 allen wrench

355-190 for 355-189  
355-192 for 355-191



**Rubber Jaws Replacement Set for Hercules Wire Cutter**

1 pair of rubber jaws / 1 pair of screws

355-193 for 355-189 and 355-191



**TC Inserts with Rubber Jaws Replacement Set for Hercules Front & Side Cutter**

1 pair of TC inserts with rubber jaws / 1 pair of screws / 1 allen wrench

355-199 for 355-198



**Table Top Rod Cutter**

Max capacity 6.4 mm (1/4") / select pin size dial selector / cuts pins flush

355-206



355-206



 Sontec Instruments®

Orthopedic WIRE TWISTERS

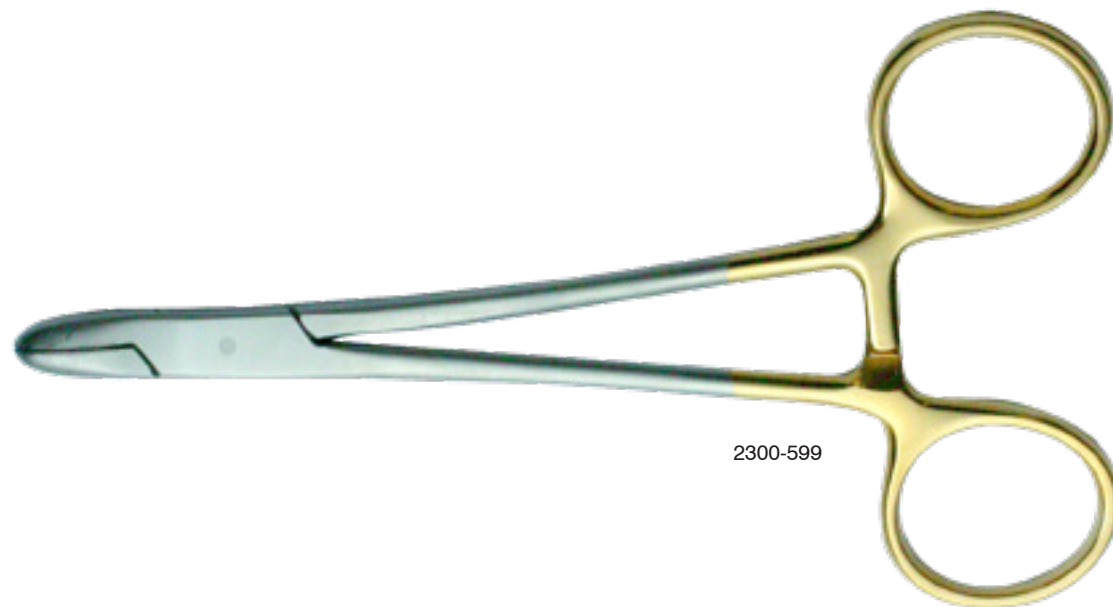
**Rubio Wire Twister Needle Holder**

Heavy / TC / 5 1/4" (13 cm)  
1103-147



**Obwegeser Wire Twister Needle Holder**

Special order / 5 3/4" (15 cm)  
2300-599



**Sternal Wire Twister Needle Holder**

Broad jaw / TC serrated / can be used as a wire twister  
/ suggested suture size sternal needles and smaller  
1103-154S 5 1/8" (13 cm)  
1103-152 7" (18 cm)  
1103-153 7 3/4" (19.5 cm)



TC Serrated



**New Orleans Wire Twister Needle Holder**

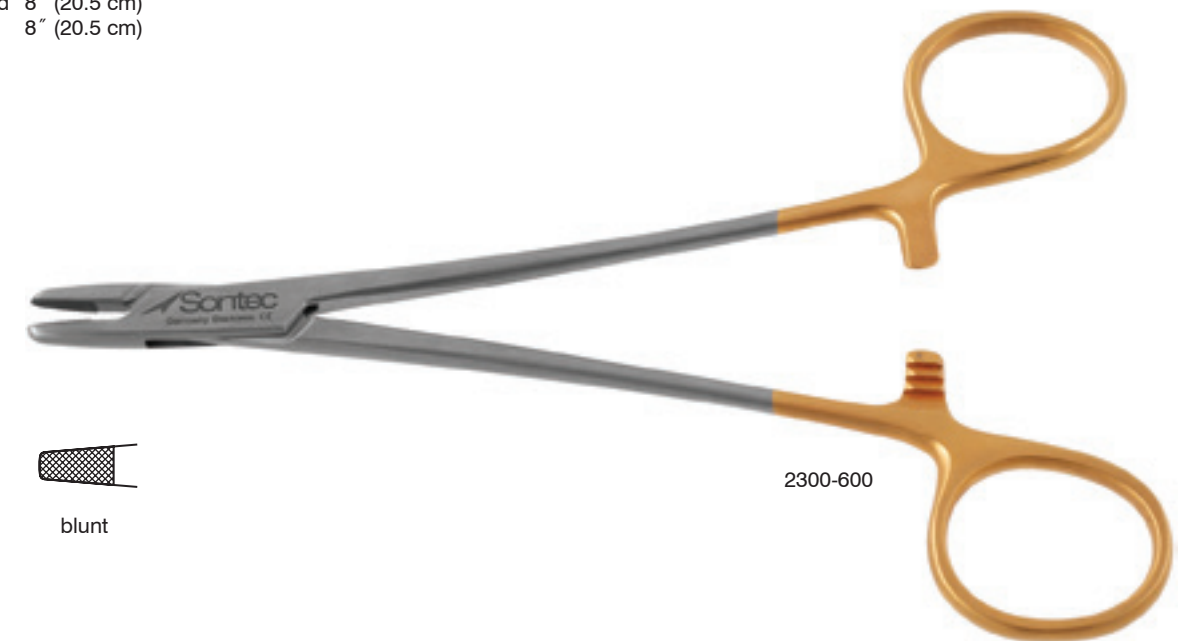
TC serrated / suggested suture size 2-0 and smaller  
2300-600 rounded 6" (15 cm)  
2300-602 blunt 6" (15 cm)  
2300-601 rounded 7" (18 cm)  
2300-604 blunt 7" (18 cm)  
2300-606 rounded 8" (20.5 cm)  
2300-607 blunt 8" (20.5 cm)



rounded

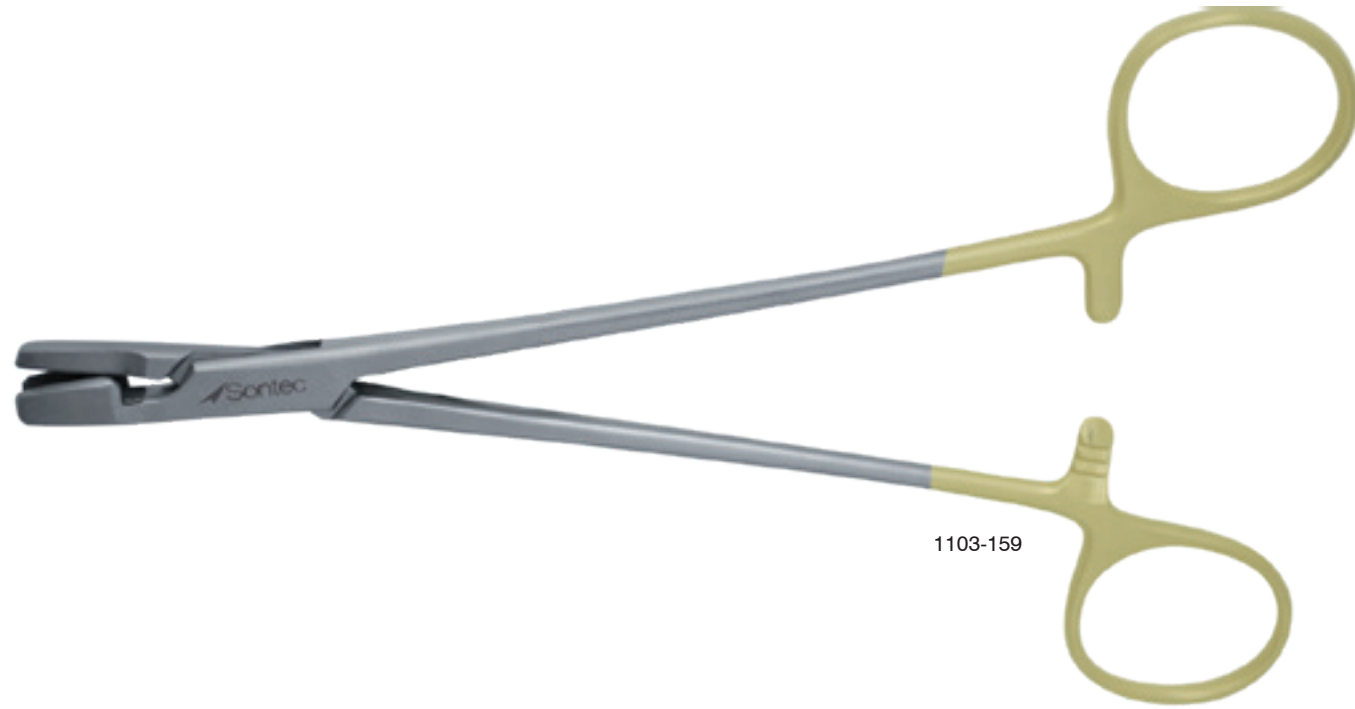


blunt



**Anti-Buckle Wire Twister**

TC serrated / w/ guard  
1103-159 7 1/4" (18.5 cm)

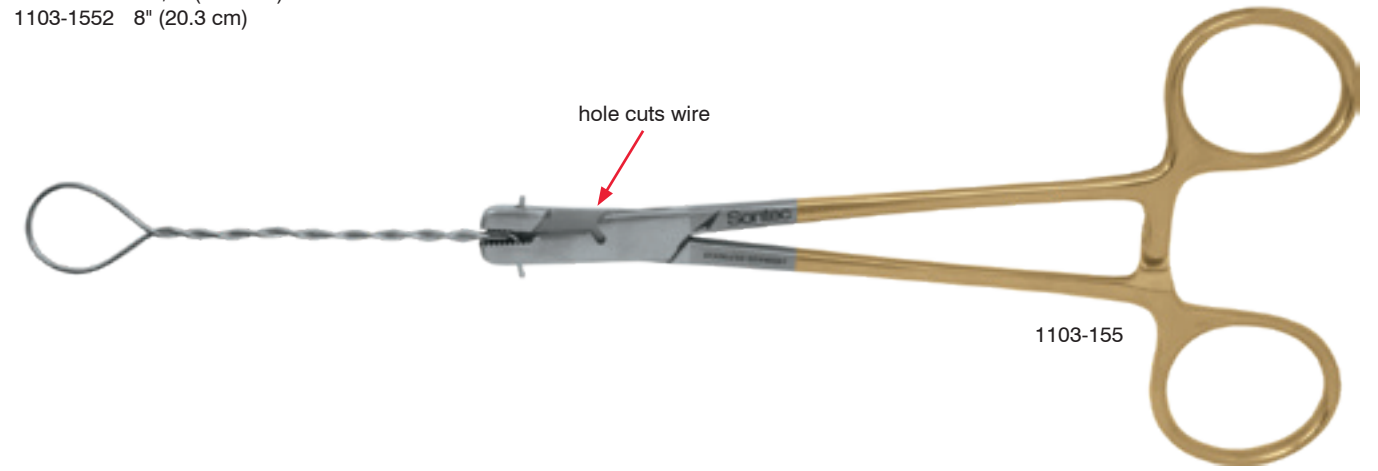


1103-159

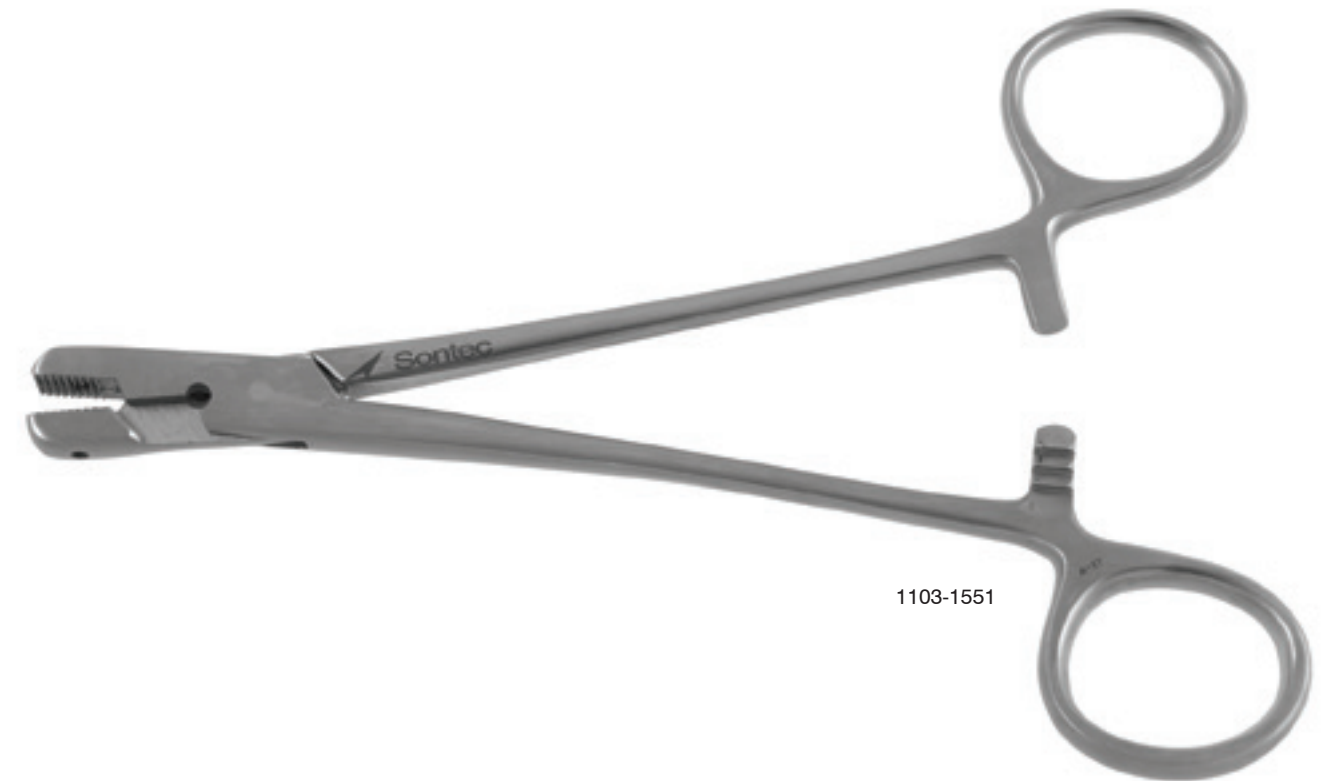
**Axel Wire Twister**

Needle holder style / with hole / 6 3/4" (17.1 cm)  
1103-155

Rounded jaw / with hole / heavy duty XXL  
1103-1551 7 1/4" (18.4 cm)  
1103-1552 8" (20.3 cm)



1103-155



1103-1551

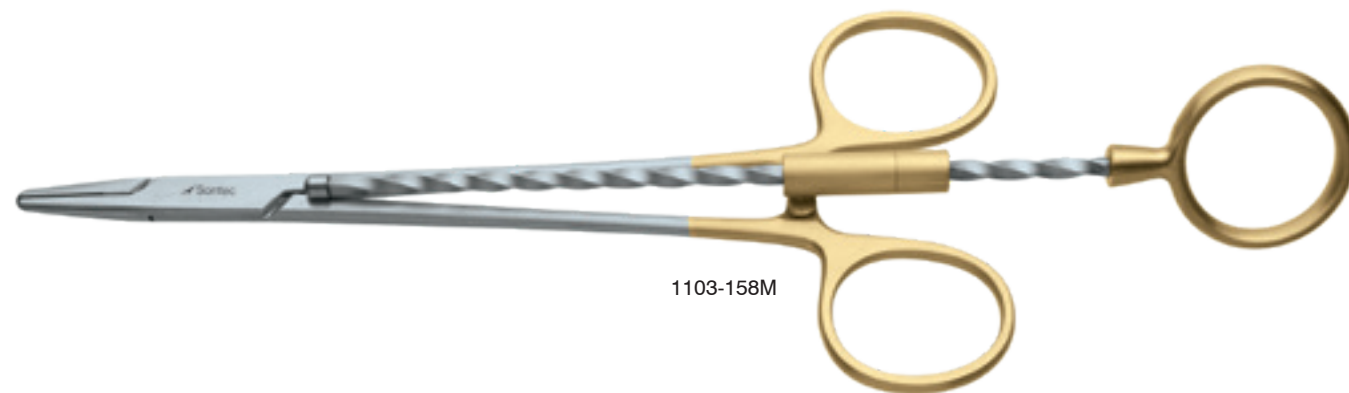
**Wire Twister**

Needle holder style / with hole / 7" (18 cm)  
1103-150



**Mini Jet Wire Twister Needle Holder**

Mayo needle holder style / TC serrated / 6 1/2" (16.5 cm)  
1103-158M



**TC Jet Wire Twister Corkscrew Design Heavy Needle Holder**

Broad jaw / 7" (17.8 cm)  
1103-152A



**Cerclage Torpedo Type Wire Twister**

Stainless / 5" (12.5 cm)  
1100-496



**Bio-Met Wire Twister**

Aluminum handle / 6" (15 cm)  
1103-158B



1103-158B

**Bio-Met Type Wire Twister**

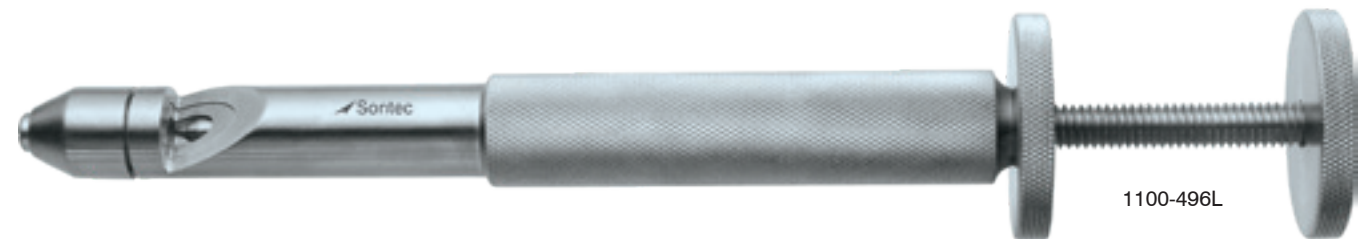
6" (15 cm)  
1103-171



1103-171

**Loute Wire Twister**

Stainless / precise adjustment capabilities / 8 1/2" (22 cm)  
1100-496L



1100-496L

**Jet Wire Twister**

Automatic / 8" (20 cm) / with cutter  
1103-158



1103-158

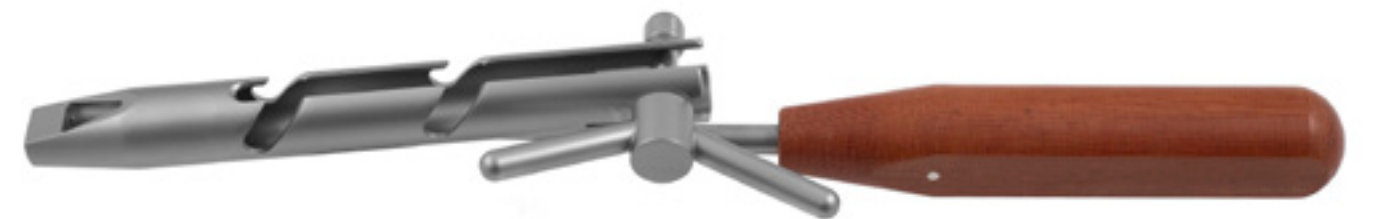
Spring loaded with ratchet / 11" (28 cm)  
/ without cutter  
1103-158S



1103-158S

**Cerclage Double Torpedo Type Wire Twister**

Stainless / phenolic handle / 9 3/4" (25 cm)  
1100-496D

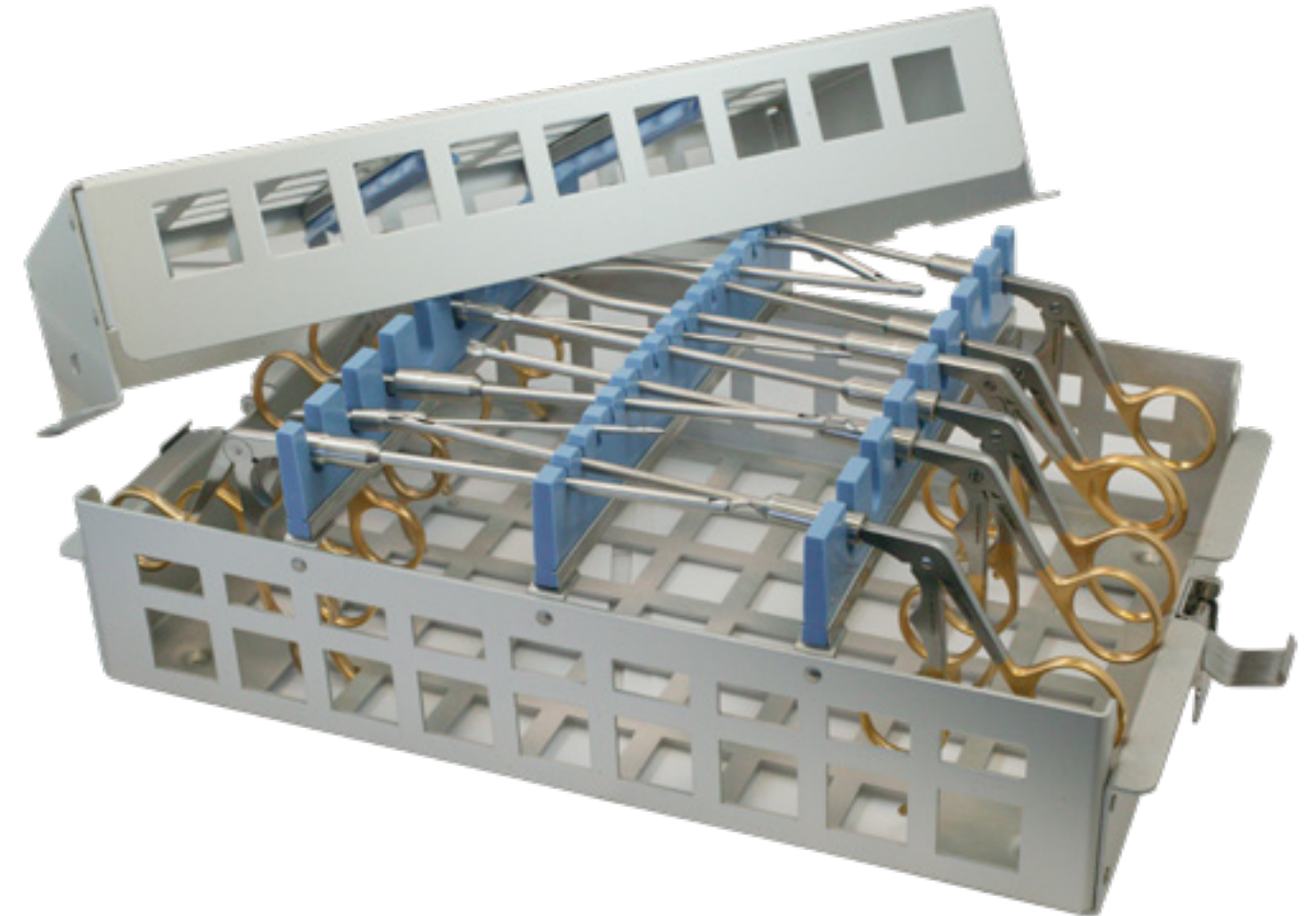


1100-496D



 Sontec Instruments®

ARTHROSCOPIC



**Complete Arthroscopic sets (including tray) are available upon request. Please contact Sontec for more information.**

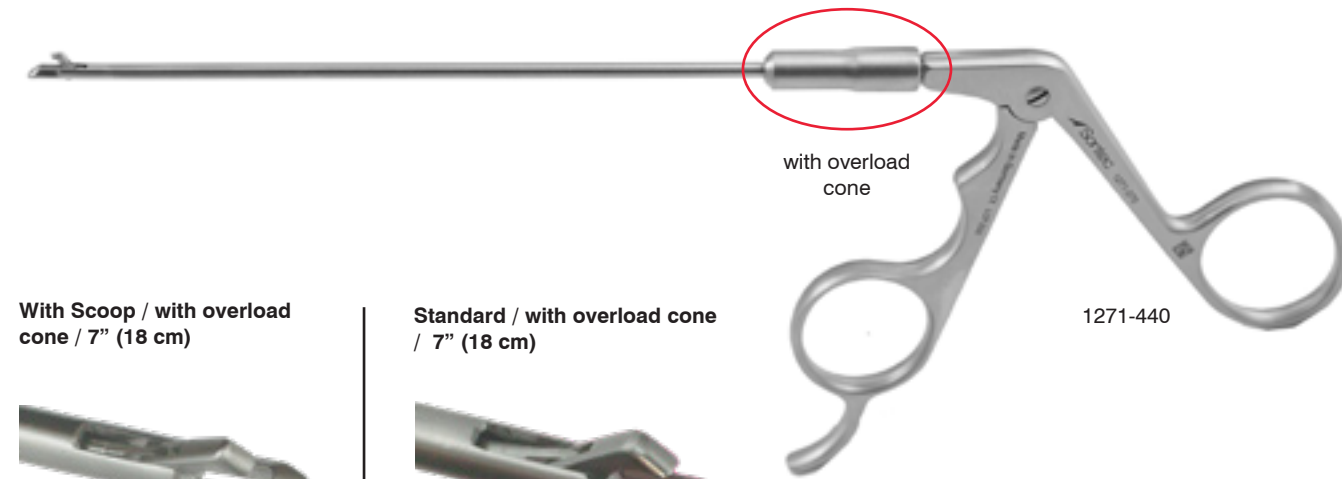
**Items shown are examples only. Customer must choose which 16 items to include in the set.**

**Restrictions apply 18-3318 tray only**

**Arthroscopic Hook Punch**

7" (18 cm)

2.7mm - custom size / please call Sontec for availability



with overload cone

1271-440

**With Scoop / with overload cone / 7" (18 cm)**



**Standard / with overload cone / 7" (18 cm)**



**2.7 mm**

- 1271-370 straight
- 1271-371 30° left
- 1271-372 30° right
- 1271-373 45° left
- 1271-374 45° right
- 1271-375 15° curved up

**2.7 mm**

- 1271-420 straight
- 1271-421 30° left
- 1271-422 30° right
- 1271-423 45° left
- 1271-424 45° right
- 1271-425 15° curved up

**3.4 mm**

- 1271-380 straight
- 1271-381 30° left
- 1271-382 30° right
- 1271-383 45° left
- 1271-384 45° right
- 1271-385 15° curved up

**3.4 mm**

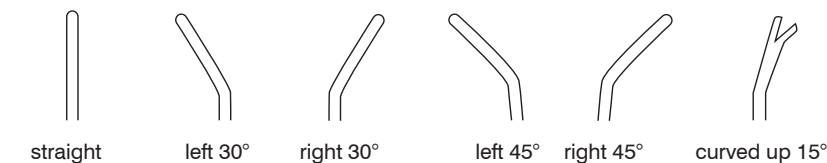
- 1271-430 straight
- 1271-431 30° left
- 1271-432 30° right
- 1271-433 45° left
- 1271-434 45° right
- 1271-435 15° curved up

**4.5 mm**

- 1271-390 straight
- 1271-391 30° left
- 1271-392 30° right
- 1271-393 45° left
- 1271-394 45° right
- 1271-395 15° curved up

**4.5 mm**

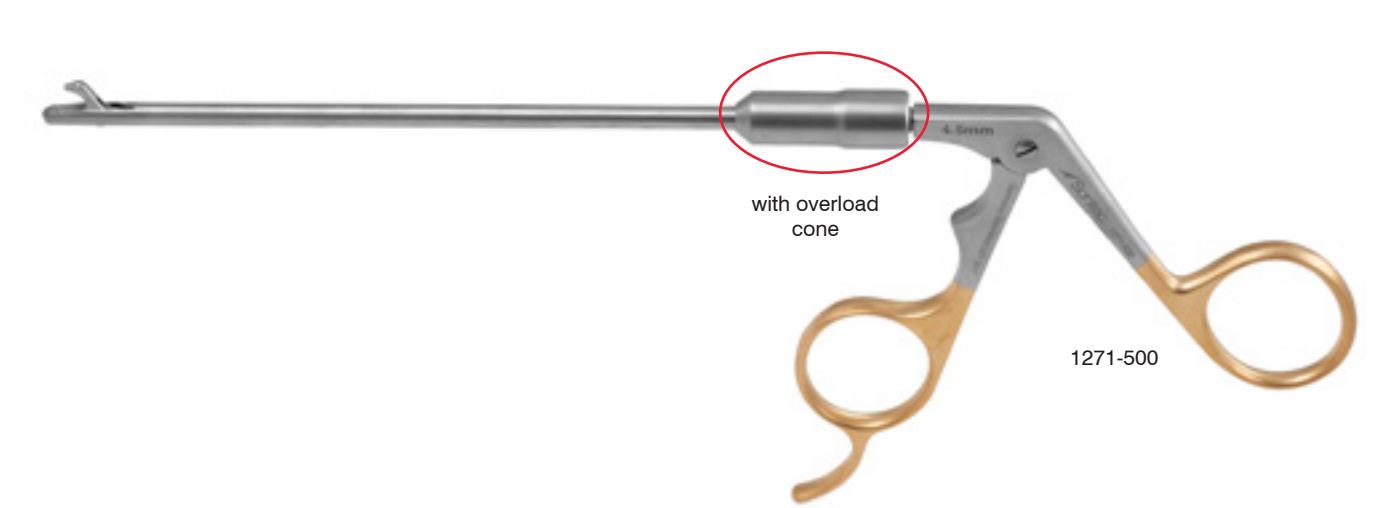
- 1271-440 straight
- 1271-441 30° left
- 1271-442 30° right
- 1271-443 45° left
- 1271-444 45° right
- 1271-445 15° curved up



**Arthroscopic Mini Low Profile Hook Punch**

7" (18 cm)

2.7mm - custom size / please call Sontec for availability



with overload cone

1271-500

**Hook**

**With mini jaw / with overload cone**



**2.7 mm**

- 1271-480 straight
- 1271-481 30° left
- 1271-482 30° right
- 1271-483 45° left
- 1271-484 45° right
- 1271-485 15° curved up

**3.4 mm**

- 1271-490 straight
- 1271-491 30° left
- 1271-492 30° right
- 1271-493 45° left
- 1271-494 45° right
- 1271-495 15° curved up

**4.5 mm**

- 1271-500 straight
- 1271-501 30° left
- 1271-502 30° right
- 1271-503 45° left
- 1271-504 45° right
- 1271-505 15° curved up

**Square Standard**

**With overload cone**



**2.7 mm**

- 1271-350 straight
- 1271-351 30° left
- 1271-352 30° right
- 1271-353 45° left
- 1271-354 45° right
- 1271-355 15° curved up

**3.4 mm**

- 1271-360 straight
- 1271-361 30° left
- 1271-362 30° right
- 1271-363 45° left
- 1271-364 45° right
- 1271-365 15° curved up

**Basket Standard**

**With overload cone**

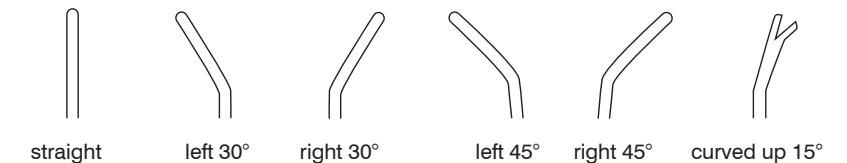


**3.4 mm**

- 1271-400 straight
- 1271-401 30° left
- 1271-402 30° right
- 1271-403 45° left
- 1271-404 45° right

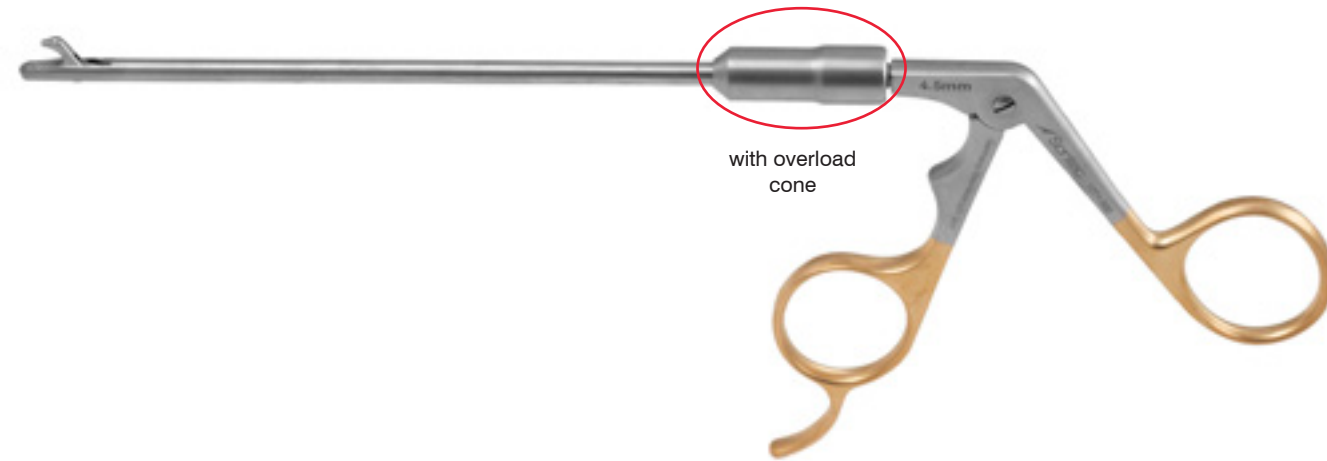
**4.5 mm**

- 1271-410 straight
- 1271-411 30° left
- 1271-412 30° right
- 1271-413 45° left
- 1271-414 45° right



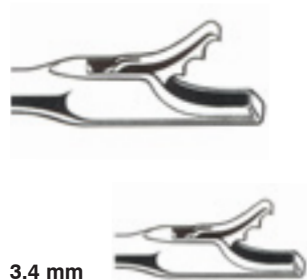
**Arthroscopic Low Profile Toothed Punch**

7" (18 cm)



**Punch**

Square bite / curved up / with overload cone



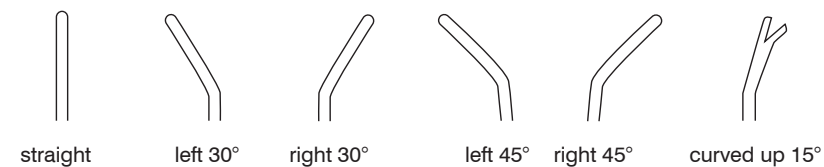
- 3.4 mm**
- 1271-510 straight
  - 1271-511 30° left
  - 1271-512 30° right
  - 1271-513 45° left
  - 1271-514 45° right
  - 1271-515 15° curved up

**Punch**

Square bite / curved up 15° / with overload cone



- 3.4 mm**
- 1271-520 straight
  - 1271-521 30° left
  - 1271-522 30° right
  - 1271-523 45° left
  - 1271-524 45° right
  - 1271-525 15° curved up



**Arthroscopic Right Left Side Punch**

With overload cone / 7" (18 cm)



**Standard / 3.4 mm jaw**



**Left angled**

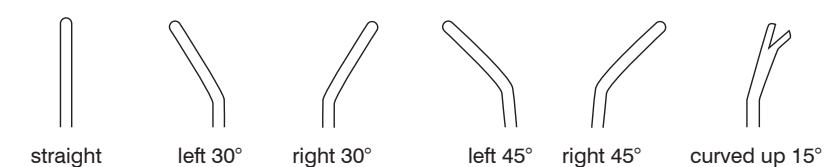
- 1271-530 straight
- 1271-531 30° left
- 1271-532 30° right
- 1271-533 45° left
- 1271-534 45° right
- 1271-535 15° curved up

**Standard / 3.4 mm jaw**



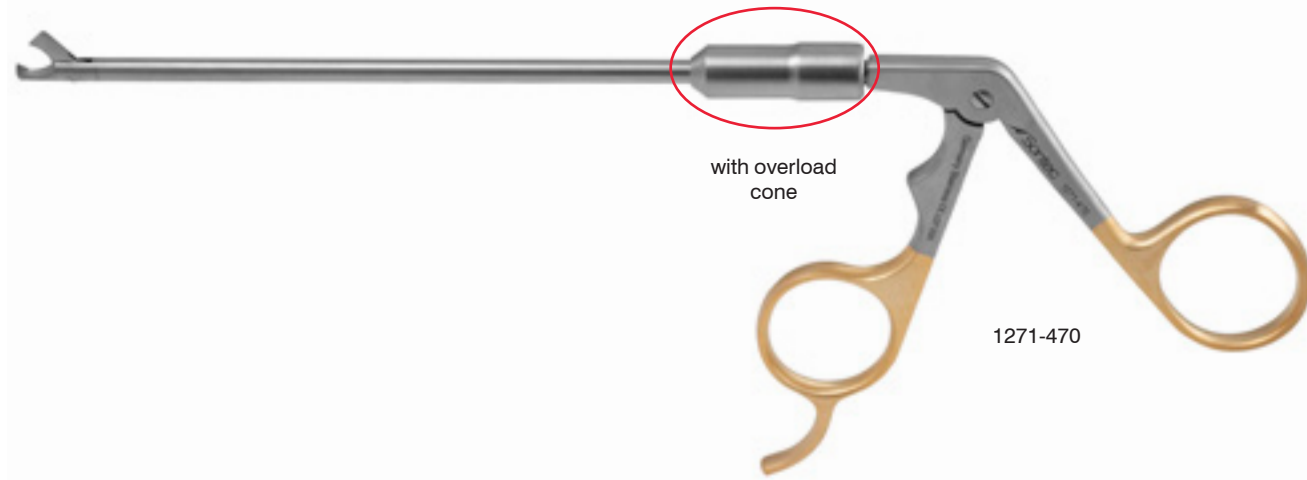
**Right angled**

- 1271-540 straight
- 1271-541 30° left
- 1271-542 30° right
- 1271-543 45° left
- 1271-544 45° right
- 1271-545 15° curved up



**Arthroscopic Metzenbaum Hook Scissors**

7" (18 cm)



with overload cone

1271-470

**Hook Scissors / with overload cone**



**2.7 mm**

- 1271-450 straight
- 1271-451 30° left
- 1271-452 30° right
- 1271-453 45° left
- 1271-454 45° right

**3.4 mm**

- 1271-460 straight
- 1271-461 30° left
- 1271-462 30° right
- 1271-463 45° left
- 1271-464 45° right

**4.5 mm**

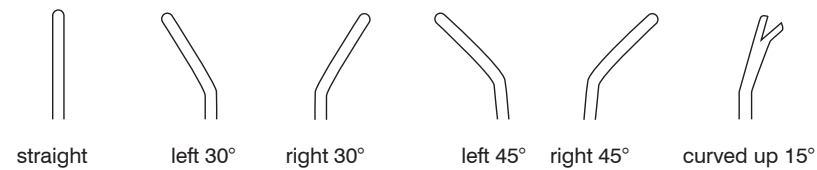
- 1271-470 straight
- 1271-471 30° left
- 1271-472 30° right
- 1271-473 45° left
- 1271-474 45° right

**Straight / with overload cone / metzenbaum blades**



**3.4 mm**

- 1271-550 straight
- 1271-551 30° left
- 1271-552 30° right
- 1271-553 45° left
- 1271-554 45° right
- 1271-555 15° curved up

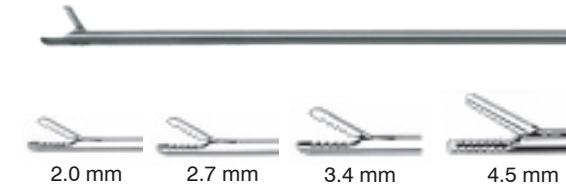


**Arthroscopic, Forceps, Biopsy & Grasping Rongeur Forceps**

**Biopsy grasper forceps / tubular shaft / serrated bite**

- 1271-020 2.0 mm cup 4" (10 cm) shaft
- 1271-016 2.7 mm cup 4" (10 cm) shaft
- 1271-018 3.4 mm cup 4" (10 cm) shaft
- 1271-021 2.0 mm cup 6" (15.5 cm) shaft
- 1271-021A 2.0 mm cup 6" (15.5 cm) shaft rear actuator hand

\* Available in 4.5 mm, please ask for details



**Tubular 4" (10 cm) shaft / 2.0 mm cup**

- 1271-005 grasping forceps
- 1271-005A grasping forceps rear actuator handle 6"
- 1271-006 fine scissors
- 1271-007 basket punch
- 1271-008 round punch






















All tubular shaft instruments available upon request with rear actuator handles

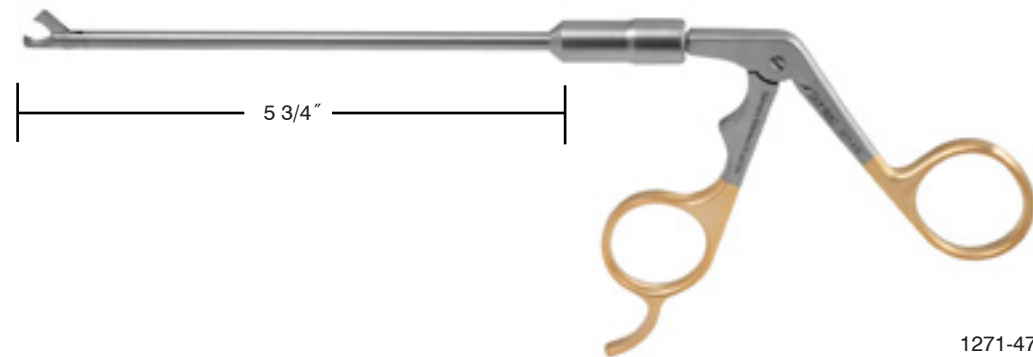
1271-005A

**Arthroscopic Punch & Scissors**

Overload cone for added strength / 5 3/4" (14.5 cm)  
shaft measurement is from jaw to overload cone

		Straight	Left 30°	Right 30°	Left 45°	Right 45°	wCurved Up 15°
							
<b>Square Punch</b>	2.7 mm 	1271-350	1271-351	1271-352	1271-353	1271-354	1271-355
	3.4 mm 	1271-360	1271-361	1271-362	1271-362	1271-364	1271-365
<b>Hook Punch with Scop</b>	2.7 mm 	1271-370	1271-371	1271-372	1271-373	1271-374	1271-375
	3.4 mm 	1271-380	1271-381	1271-382	1271-383	1271-384	1271-385
	4.5 mm 	1271-390	1271-391	1271-392	1271-393	1271-394	1271-395
<b>Basket Punch</b>	3.4 mm 	1271-400	1271-401	1271-402	1271-403	1271-404	
	4.5 mm 	1271-410	1271-411	1271-412	1271-413	1271-414	
<b>Hook Punch</b>	2.7 mm 	1271-420	1271-421	1271-422	1271-423	1271-424	1271-425
	3.4 mm 	1271-430	1271-431	1271-432	1271-433	1271-434	1271-435
	4.5 mm 	1271-440	1271-441	1271-442	1271-443	1271-444	1271-445
<b>Hook Scissors</b>	2.7 mm 	1271-450	1271-451	1271-452	1271-453	1271-454	
	3.4 mm 	1271-460	1271-461	1271-462	1271-463	1271-464	
	4.5 mm 	1271-470	1271-471	1271-472	1271-473	1271-474	















continues on next page



1271-470

**Arthroscopic Punch Rongeur**

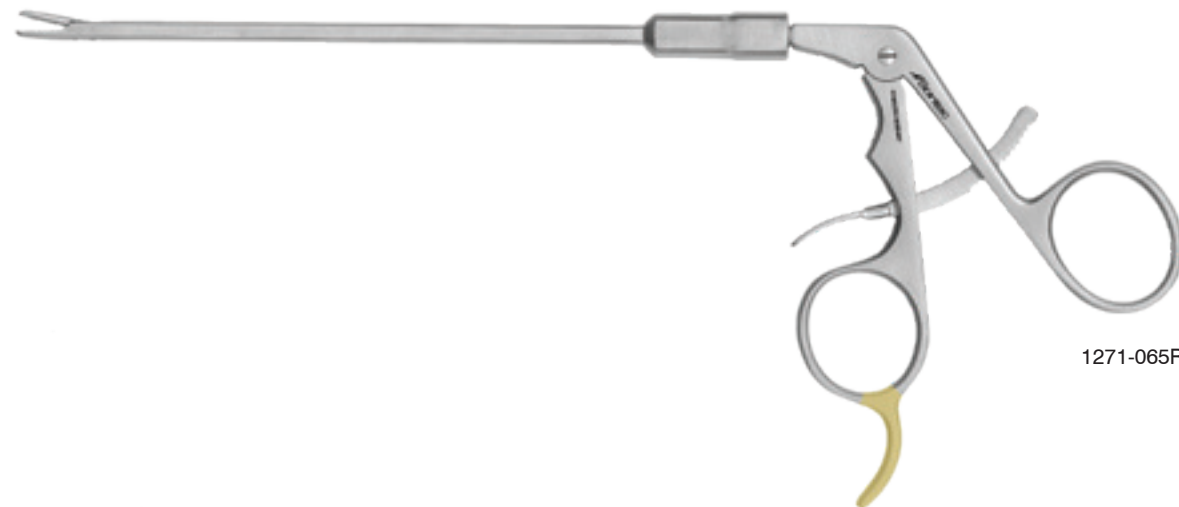
Overload cone for added strength / 5 3/4" (14.5 cm)  
shaft measurement is from jaw to overload cone

		Straight	Left 30°	Right 30°	Left 45°	Right 45°	wCurved Up 15°
							
<b>Hook Punch with Mini Jaw</b>	2.7 mm 	1271-480	1271-481	1271-482	1271-483	1271-484	1271-485
	3.4 mm 	1271-490	1271-491	1271-492	1271-493	1271-494	1271-495
	4.5 mm 	1271-500	1271-501	1271-502	1271-503	1271-504	1271-505
<b>Square Bite / curved up</b>	3.4 mm 	1271-510	1271-511	1271-512	1271-513	1271-514	1271-515
<b>Square Bit / curved up 15°</b>	3.4 mm 	1271-520	1271-521	1271-522	1271-523	1271-524	1271-525
<b>Side punch / left</b>	3.4 mm 	1271-530	1271-531	1271-532	1271-533	1271-534	1271-535
<b>Side Punch / right</b>	3.4 mm 	1271-540	1271-541	1271-542	1271-543	1271-544	1271-545
<b>Scissor, / straight</b>	3.4 mm 	1271-550	1271-551	1271-552	1271-553	1271-554	1271-555

**Arthroscopic Grasping Forceps**

Overload cone / available with or without ratchet /  
5 3/4" (14.5 cm) shaft

<b>Grasping Forcep</b>								
	2.7 mm		1271-060	1271-061	1271-062	1271-063	1271-064	1271-085
	3.4 mm		1271-065	1271-066	1271-067	1271-068	1271-069	1271-086
	4.5 mm		1271-070	1271-071	1271-072	1271-073	1271-074	1271-087
	3.4 mm / 1x2 tth		1271-610	1271-611	1271-612	1271-613	1271-614	1271-615
	4.5 mm / 1x2 tth		1271-620	1271-621	1271-622	1271-623	1271-624	1271-625
<b>Grasping Forcep with ratchet</b>								
	2.7 mm		1271-060R	1271-061R	1271-062R	1271-063R	1271-064R	1271-085R
	3.4 mm		1271-065R	1271-066R	1271-067R	1271-068R	1271-069R	1271-086R
	4.5 mm		1271-070R	1271-071R	1271-072R	1271-073R	1271-074R	1271-087R
	3.4 mm / 1x2 tth		1271-640	1271-641	1271-642	1271-643	1271-644	1271-645
	4.5 mm / 1x2 tth		1271-650	1271-651	1271-652	1271-653	1271-654	1271-655
<b>Biopsy &amp; Grasping Forceps</b>								
	2.7 mm		1271-090	1271-091	1271-092	1271-093	1271-094	1271-095
	3.4 mm		1271-101	1271-102	1271-103	1271-104	1271-105	1271-106
	4.5 mm		1271-107	1271-108	1271-109	1271-110	1271-111	1271-112



1271-065R

**Arthroscopic Grasping Forceps**

Overload cone / for small joints / available with or  
without ratchet / 4" (10 cm) shaft

<b>Grasping Forcep</b>								
	2.7 mm		1270-060	1270-061	1270-062	1270-063	1270-064	1270-085
	3.4 mm		1270-065	1270-066	1270-067	1270-068	1270-069	1270-086
	4.5 mm		1270-070	1270-071	1270-072	1270-073	1270-074	1270-087
<b>Grasping Forcep with ratchet</b>								
	2.7 mm		1270-060R	1270-061R	1270-062R	1270-063R	1270-064R	1270-085R
	3.4 mm		1270-065R	1270-066R	1270-067R	1270-068R	1270-069R	1270-086R
	4.5 mm		1270-070R	1270-071R	1270-072R	1270-073R	1270-074R	1270-87R
<b>Biopsy &amp; Grasping Forceps</b>								
	2.7 mm		1270-090	1270-091	1270-092	1270-093	1270-094	1270-095
	3.4 mm		1270-101	1270-102	1270-103	1270-104	1270-105	1270-106
	4.5 mm		1270-107	1270-108	1270-109	1270-110	1270-111	1270-112



1270-060

**Arthroscopic Biopsy Grasping Forceps**

**Straight / 2.7 mm jaw / overload cone / with ratchet / 4" (10 cm) shaft**  
1270-090R

**Straight / 2.7 mm jaw / overload cone / with ratchet / 7" (18 cm) shaft**  
1271-090R



**Arthroscopic Biopsy Grasping Forceps**

**Overload cone / 3.4 mm jaw / available with or without ratchet / 4" (18 cm) shaft**  
1270-101R

**Overload cone / 3.4 mm jaw / available with or without ratchet / 7" (18 cm) shaft**  
1271-101R



**Arthroscopic Biopsy Grasping Forceps**

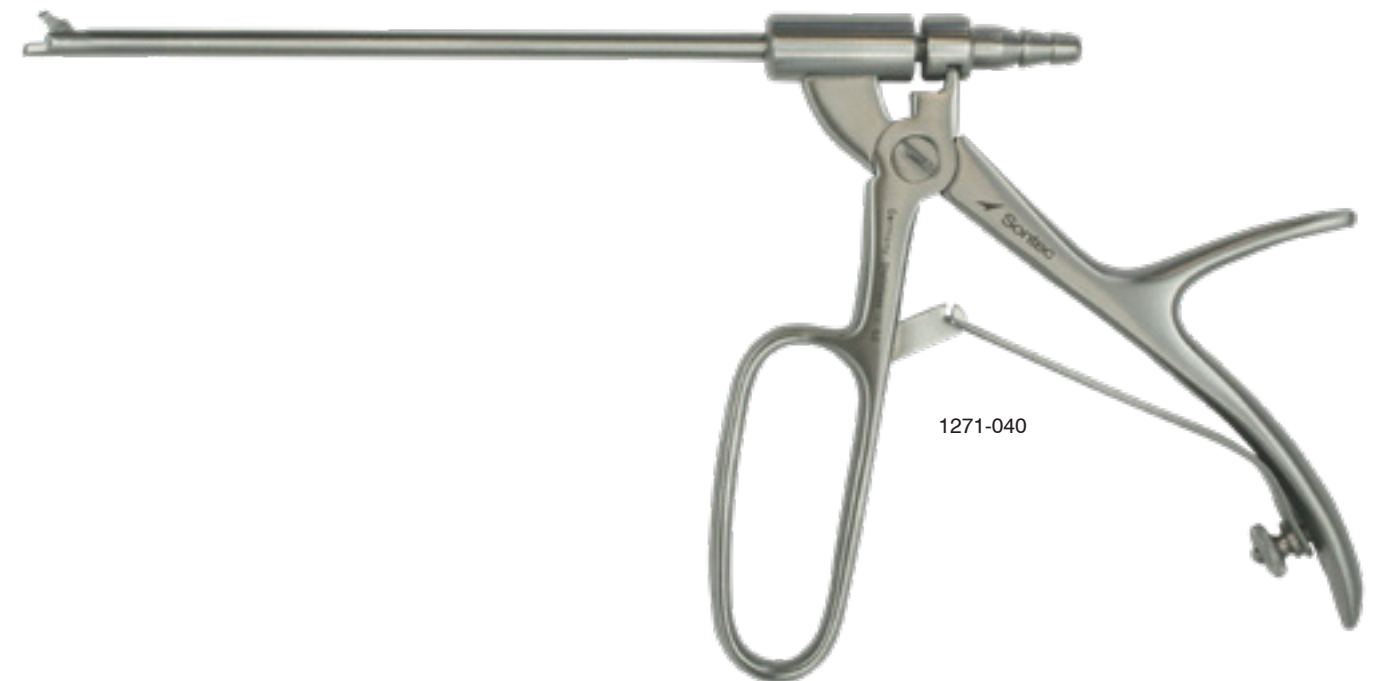
**Straight / 4.5 mm jaw / overload cone / with ratchet / 3 1/4" (8.25 cm) working shaft length**  
1270-107R

**Straight / 4.5 mm jaw / overload cone / with ratchet / 7" (18 cm) working shaft length**  
1271-107R



**Suction Arthroscopic Cut Through Punch Rongeur**

**5° up / 4" (20 cm) shaft / comes with stylus**  
1271-040 2.5 mm jaw



**Suction Arthroscopic Cut Through Punch Rongeur**

5° up / 5 mm Ø shaft / 140 mm working length

1271-042 3 mm jaw



**McIlwraith Suction Arthroscopic Cut Through Punch Rongeur**

5° up / 5" shaft / extra long bore 5 mm I.D.

1271-041 5 mm jaw



**Arthroscopic Needle Holder**

With clean flush port / TC serrated jaw / curved

1271-113



**Hook Punch**

2.7 mm / straight / with overload cone / 5" (12.7 cm)

1271-426



**Arthroscopic Maxi Grasper**

Large serrated teeth / crab claw jaws / open center jaw 18 mm elliptical gap when jaws are fully closed / 7" (18 cm)

404-765



404-765

**Arthroscopic Mini Grasper**

Serrated upper jaw with smooth lower jaw / crab claw jaw / 18 mm jaw / 6" (15.2 cm)

404-764



404-764

**Meniscus Grasping Forceps**

Axial, ring handled grip / serrated jaw / 1 x 2 teeth / 7" (18 cm)

- 1404-852 straight
- 1404-854 curved left
- 1404-853 curved right



1404-852

1404-853

1404-854

**Rotary Arthroscopic Scissors**

- 1273-100 hook left 20°
- 1273-101 hook right 20°
- 1273-103 hook right 60°
- 1273-105 hook left 60°

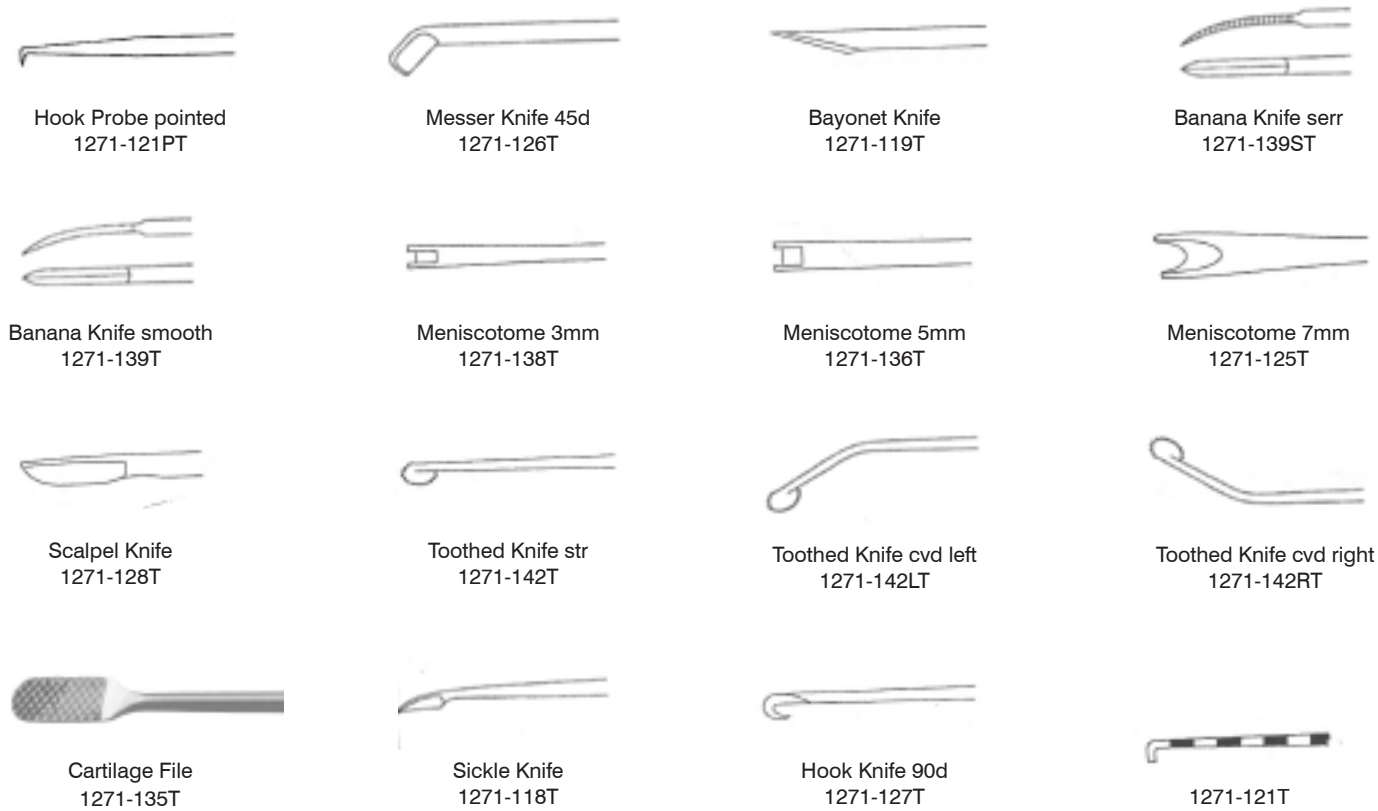


1273-100

1273-103

**Triangle Handle Arthroscopic Meniscotome, Hook, Probe & Knife**

9 1/4" (23.5 cm) / triangle handle



**Arthroscopic Meniscotomes Hook, Probe & Knife**

9" (23 cm) / knurled handle sold separately



**Arthroscopic Meniscotomes Hook, Probe & Knife**

9" (23 cm) / handle sold separately / fit universal handle / choose either knurled handle or universal handle-shaft combination

1271-143 universal handle sold separately 4 3/4"  
 1271-143L universal handle extra long 8" special order



1271-143



1271-143L



Sickle 1271-118U



Bayonet 1271-119U



Meniscotome 1271-125U



45° 1271-126U



Hook 1271-127U



Scalpel 1271-128U



Meniscotome 1271-136U



Meniscotome 1271-138U



Banana 1271-139U



Banana Serrated 1271-139SU



Toothed 1271-142U

**Arthroscopic Curette & Ring Curette**

9 1/4" (23.5 cm) / triangle handle

1271-116T 30 degrees  
 1271-148S 3 mm ring tip  
 1271-148T 7 mm ring tip 30°

9 1/4" (23.5 cm) / triangle handle / 30°

1271-149 5 mm ring tip



1271-116T



1271-148S



1271-148T



1271-149

**Knurled handle / 3 mm / 9" (23 cm)**

1271-115 30° curved curette  
 1271-140 right angled sharp ring tip

**"U" Fit universal handle / 3 mm / 9" (23 cm)**

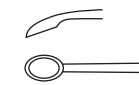
1271-116U 30° curved curette  
 1271-140U right angled sharp ring tip

**Universal handle sold separately**

1271-143 universal handle sold separately



1271-115



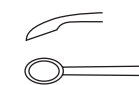
1271-115



1271-140



1271-143



1271-116U

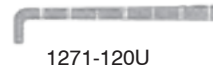
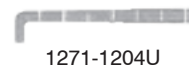
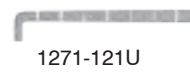
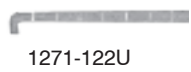


1271-140U

**Arthroscopic Hook Probe**

9" (23 cm)

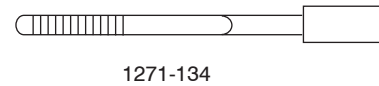
1271-121	3.5 mm	knurled handle
1271-122	2.5 mm	knurled handle
1271-122U	2.5 mm	for universal handle
1271-121U	3.5 mm	for universal handle
1271-1204U	4 mm	for universal handle
1271-120U	5 mm	for universal handle



**Arthroscopic Rasp**

Item numbers followed by "U" fit universal handle / 9" (23 cm)

1271-134	
1271-143	universal handle sold separately



**Arthroscopic Hook Probe with Conical Handle**

3.5 mm tip

1271-121A	4 1/2"
1271-121B	6"
1271-121C	7 1/2"

4 mm tip Ø

1271-1218	8 1/4"
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**McIlwraith Arthroscopic Hook Probe**

Graduated / light / 9 1/2" (24 cm)

1271-129



Graduated / heavy / 10 1/2" (26 cm)

1271-130



Phenolic handle / 10 1/4" (26 cm)

1271-130PH



**Taylor Micro Arthroscopic Hook Probe & Pick**

1.2mm / 8" (20 cm)

1271-120	straight
1271-123	curved

3 mm hook / 1 mm ball tip / lightweight type handle / 8 1/2" (21.5 cm)

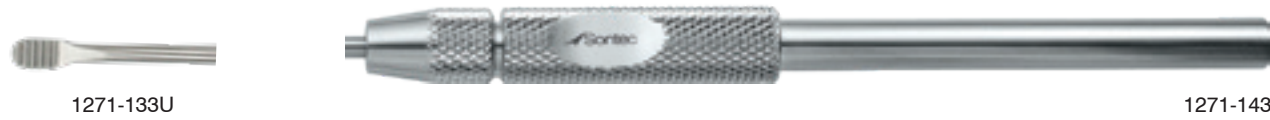
1271-123LW



### Arthroscopic Rasp

Item numbers followed by "U" fit universal handle / 4x6 mm / 9" (23 cm)

- 1271-133U straight
- 1271-133AU 15° angle
- 1271-143 universal handle sold separately



### Chondro Pick

Silicone handle / 6 mm Ø shaft / 125 mm working length / 9" (23 cm) overall length

Specifically designed for the treatment of micro fracture cartilage defects on large and medium joints

- 1271-315 straight
- 1271-316 25° angled tip
- 1271-317 40° angled tip
- 1271-318 60° angled tip
- 1271-319 90° angled tip



### Bone Pick Micro Fracture

Phenolic handle / 30° tip

- 1271-320 6 7/8" (17.5 cm) mini
- 1271-330 7 1/2" (19 cm) peterson
- 1271-325 10 3/4" (27.5cm) equine

Phenolic handle / 60° tip

- 1271-321 6 7/8" (17.1 cm)
- 1271-322 7 1/2" (19.1 cm)
- 1271-326 10 3/4" (27.3 cm)

Phenolic handle / 90° tip

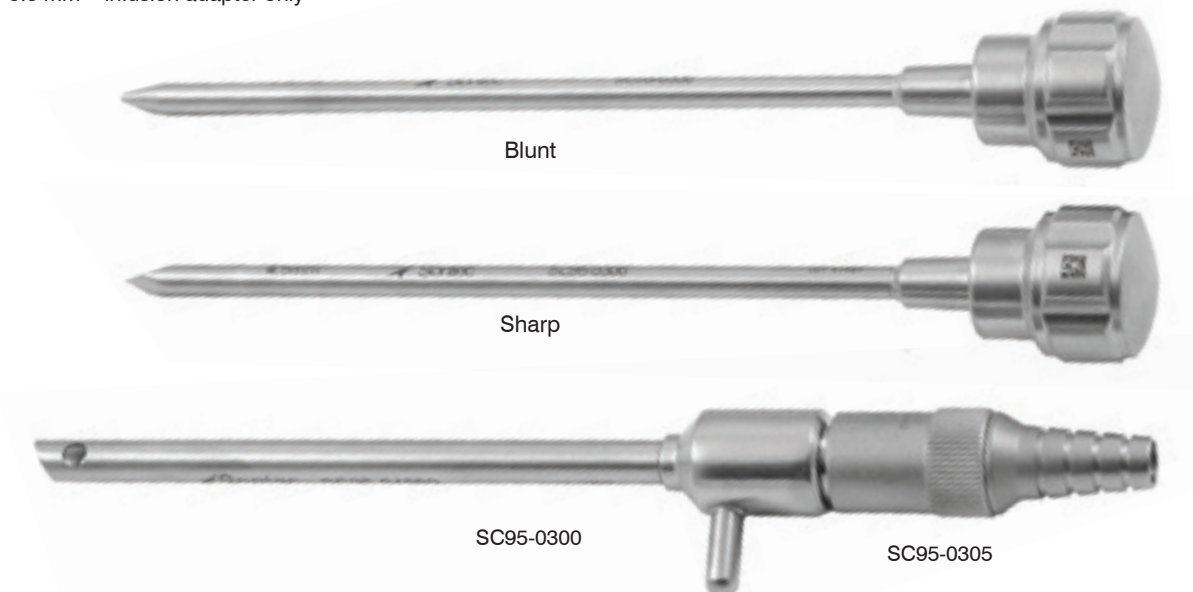
- 1271-323 6 7/8" (17.1 cm)
- 1271-324 7 1/2" (19.1 cm)
- 1271-327 10 3/4" (27.3 cm)



### Inflow Cannula Set

Set includes a sharp and blunt cannula

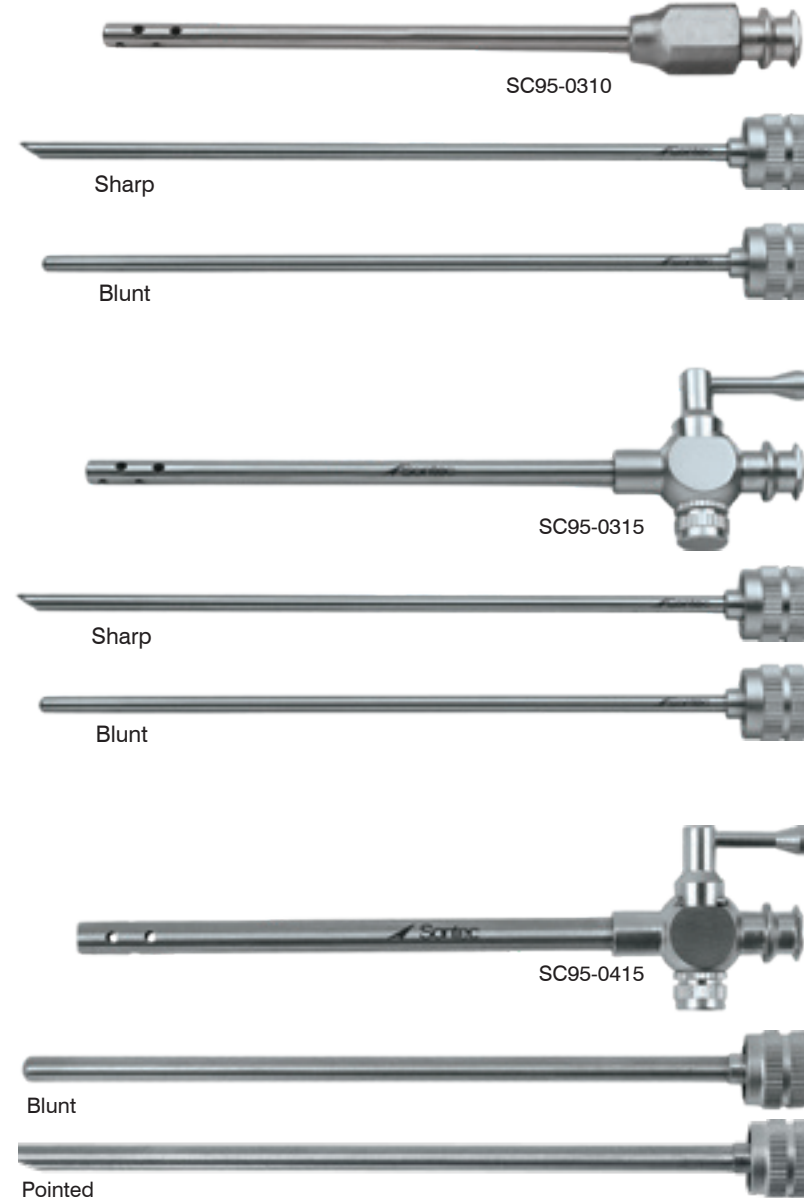
- SC95-0300-SET 4.5 mm includes infusion adapter complete set
- SC95-0305 4.5 mm infusion adapter only
- SC95-0302-SET 5.5 mm includes infusion adapter complete set
- SC95-0306 5.5 mm infusion adapter only



**Egress Cannula Set**

Cutting obturator / lateral irrigation holes / 2 3/4" (7 cm) working length / set includes a sharp and blunt cannula

SC95-0310-SET	3.2 mm diameter	without stop cock	special order
SC95-0315-SET	3.2 mm diameter	with stop cock	
SC95-0415-SET	4.5 mm diameter	with stop cock	



**Egress Cannula Set**

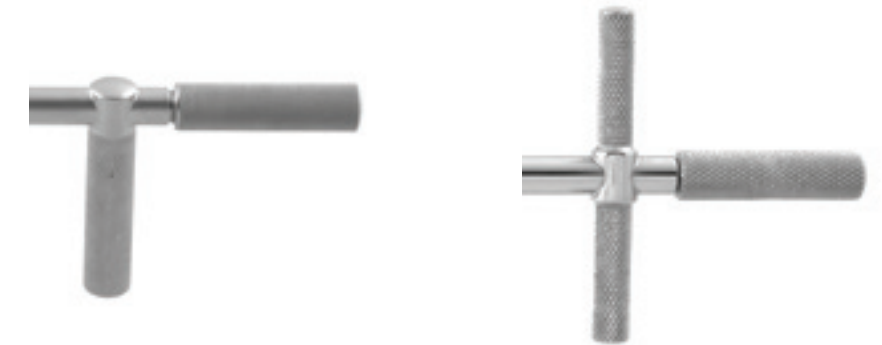
With conical obturator / 6" (15.2 cm) working length

SC94-0312	3.1 mm ID
SC94-0313	4.1 mm ID
SC94-0314	5.1 mm ID
SC94-0315	6.1 mm ID
SC94-03157	7.1 mm ID
SC94-03158	8.1 mm ID
SC94-03159	9.1 mm ID

With Conical obturator / 12" (30.5 cm) working length

SC94-0316	3.1 mm ID
SC94-0317	4.1 mm ID
SC94-0318	5.1 mm ID
SC94-0319	6.1 mm ID
SC94-0320	7.1 mm ID
SC94-0321	8.1 mm ID
SC94-0322	9.1 mm ID

\* CUSTOM - specify size (diameter & length) when ordering



available with T-handle or L-handle shown above



**Arthroscopic Switch Stick**

8 3/4"

1271-117-1	1.1mm
1271-117-5	2.4mm
1271-117-2	2.9mm
1271-117	3.2mm
1271-117-3	3.7mm

Set of 5 / 8 3/4"

1271-117-4 sizes in set:

1.1mm
2.4mm
2.9mm
3.2mm
3.7mm



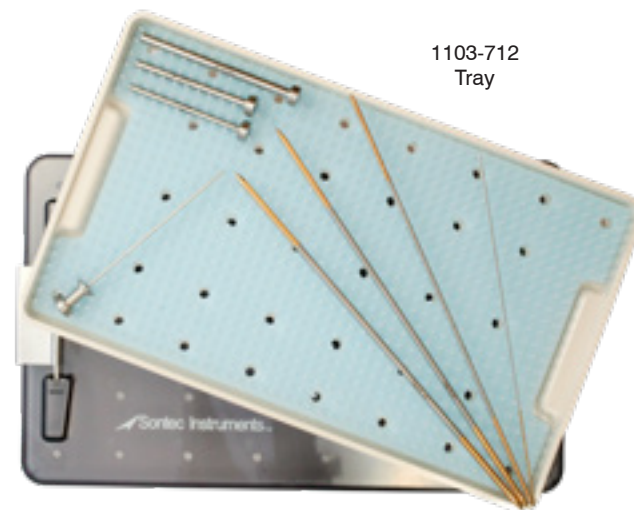
1271-117

### Small Joint Arthroscopic Cannula Switch Stick Set

Complete with 4 cannulas, 4 switch sticks, cannulated obturator, and lightweight anodized case

SC95-0425

\*Instruments are also available separately



1103-712  
Tray

### Small Joint Arthroscopic Cannula

SC95-0421	2.9 mm	2 1/2" (6.5cm)
SC95-0422	3.7 mm	2 1/2" (6.5cm)
SC95-0423	4.3 mm	3 1/4" (8.3cm)
Sc95-0424	5.1 mm	3 1/4" (8.3cm)

### Arthroscopic Cannulated Obturator

Small joint / 1.3 mm / 4 1/2" (11.5cm)

SC95-0420



SC95-0421

SC95-0422

SC95-0423

SC95-0424

### Arthroscopic Switch Stick

1271-117	3.2mm	8 3/4" (22 cm)
1271-117-1	1.1mm	7" (18cm)
1271-117-2	2.9mm	8 3/4 (22cm)
1271-117-3	3.7mm	8 3/4 (22cm)
1271-117-4	complete switch stick set	



1271-117

1271-117-1

1271-117-2

1271-117-3

SC95-0420

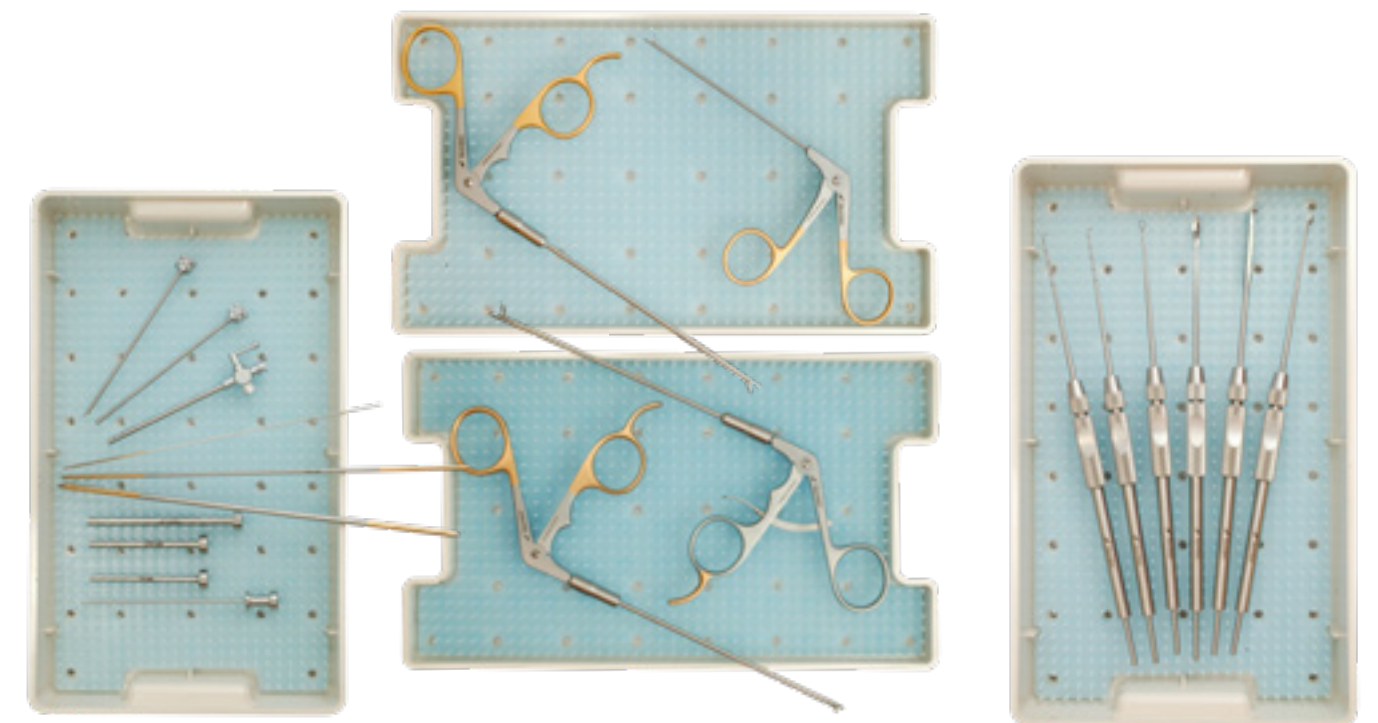
### Small Joint Complete Arthroscopic Set

Includes the following instruments

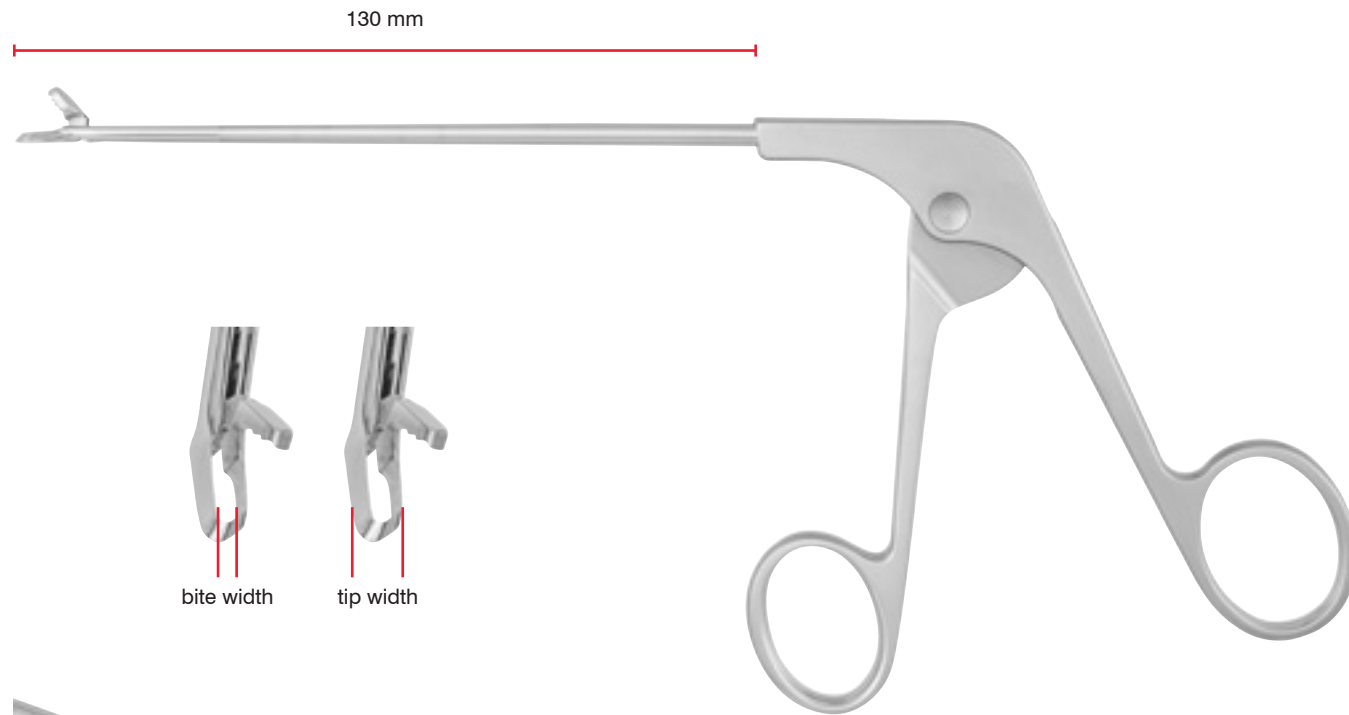
Sc95-0427 complete set

\* instruments are also available separately

Item Number	Description				
1271-020	grasping biopsy forcep	2 mm	serrated	4" (10 cm)	
1271-090	grasping biopsy forcep	2.7 mm	straight	7" (18 cm)	overload cone
1271-060R	grasping forcep with ratchet	2.7 mm	straight	7" (18 cm)	overload cone
1271-480	hook punch with mini jaws	2.7 mm	straight	7" (18 cm)	overload cone
1271-143	universal anthro handle	125 mm			
1271-127U	universal hook probe	3 mm	90°		
1271-139U	universal banana knife				
1271-122U	universal hook probe	2.5 mm	graduated		
1271-121U	universal hook probe	3.5 mm	graduated		
1271-142U	universal toothed knife		straight		
1271-140U	universal ring curette	3 mm	angled		
SC95-0315	irrigation cannula	3.2 mm			with stop cock
1271-117-1	arthroscopic switch stick	1.1 mm		8" (20.3 cm)	
1271-117-2	arthroscopic switch stick	2.9 mm		8" (20.3 cm)	
1271-117-3	arthroscopic switch stick	3.7 mm		8" (20.3 cm)	
SC95-0420	cannulated obturator	1.3 mm		4" (10 cm)	small joint
SC95-0421	arthroscopic cannula	2.9 mm		2 1/4" (6 cm)	small joint
SC95-0422	arthroscopic cannula	3.7 mm		2 1/4" (6 cm)	small joint
SC95-0423	arthroscopic cannula	4.3 mm		3 1/4" (8 cm)	small joint



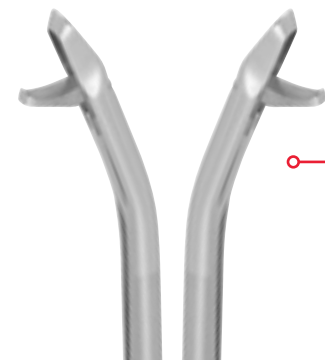
KNEE INSTRUMENTS



**Straight:** The primary style for direct approach

**Upbiter:** Angled at tip increased access to the posterior meniscus

**Upswept:** Angled shaft follows the contour of the condyle and keeps the cutting surface parallel to the tibial plateau



**Curved left and curved right:** Angled to reach the anterior and posterior meniscus

KNEE INSTRUMENTS

Classic Handle

Scissors, basket punches and graspers are equipped with our traditional classic handle



Slide Lock Handle

All graspers are equipped with this infinite position locking handle design



Ergonomic Handle

Selected punches, scissors and graspers are equipped with this ergonomic handle design



Rotatable Handle

Available on rotary basket punches and scissors



**KNEE INSTRUMENTS**

**Punch**

The Basket Punch provides a maximum tissue resection by its wave tooth and wide bite

**Basket Punch / small / 5" straight shaft / 2.5 mm bite width / 4.15 mm tip width**

- 1273-202 classic handle
- 1273-203 ergonomic handle



**Basket Punch / small / upbiter / 5" straight shaft up / 2.5 mm bite width / 4.15 mm tip width**

- 1273-204 classic handle
- 1273-205 ergonomical handle



**Basket Punch / medium / 5" shaft / 3.2 mm bite width / 5.05 mm tip width / straight tip**

- 1273-210 straight shaft classic handle
- 1273-211 straight shaft ergonomic handle
- 1273-214 curved left shaft classic handle
- 1273-215 curved left shaft ergonomic handle
- 1273-212 curved right shaft classic handle
- 1273-213 curved right shaft ergonomic handle
- 1273-216 upswept shaft classic handle
- 1273-217 upswept shaft ergonomic handle



**Basket Punch / medium / upbiter / 5" shaft / 3.20 mm bite width / 5.05 mm tip width**

- 1273-220 straight shaft classic handle
- 1273-221 straight shaft ergonomic handle
- 1273-224 curved left shaft classic handle
- 1273-225 curved left shaft ergonomic handle
- 1273-222 curved right shaft classic handle
- 1273-223 curved right shaft ergonomic handle
- 1273-226 upswept shaft classic handle
- 1273-227 upswept shaft ergonomic handle



**Basket Punch / large / 5" straight shaft / 4.50 mm bite width / 6.15 mm tip width**

- 1273-228 classic handle
- 1273-229 ergonomic handle



**Basket Punch / large / upbiter / 5" straight shaft / 4.50 mm bite width / 6.15 mm tip width**

- 1273-230 classic handle
- 1273-231 ergonomic handle



**Basket Punch / upbiter / diagonal cut / 5" shaft / 3.20 mm bite width / 5.05 mm tip width**

- 1273-232 curved left shaft classic handle
- 1273-233 curved left shaft ergonomic handle
- 1273-234 curved right shaft classic handle
- 1273-235 curved right shaft ergonomic handle



**KNEE INSTRUMENTS**

**Punch**

Combines wide bite with the thinnest possible tip to provide optimum maneuverability under the condyle

**Gawsling Basket Punch / small / 5" shaft / 2.50 mm bite width / 4.15 mm tip width**

- 1273-172 straight shaft classic handle
- 1273-173 straight shaft ergonomic handle
- 1273-174 curved right shaft classic handle
- 1273-175 curved right shaft ergonomic handle
- 1273-176 curved left shaft classic handle
- 1273-177 curved left shaft ergonomic handle
- 1273-178 upswept shaft classic handle
- 1273-179 upswept shaft ergonomic handle



**Gawsling Basket Punch / small / upbiter / 5" straight shaft / 2.50 mm bite width / 4.15 mm tip width**

- 1273-148 classic handle
- 1273-149 ergonomic handle



**Gawsling Basket Punch / medium / 5" shaft / 3.20 mm bite width / 5.00 mm tip width**

- 1273-140 straight shaft classic handle
- 1273-142 straight shaft ergonomic handle
- 1273-136 curved left shaft classic handle
- 1273-141 curved left shaft ergonomic handle
- 1273-134 curved right shaft classic handle
- 1273-139 curved right shaft ergonomic handle
- 1273-138 upswept shaft classic handle
- 1273-143 upswept shaft ergonomic handle



**Gawsling Basket Punch / medium / upbiter / 5" shaft / 3.20 mm bite width / 5.00 mm tip width**

- 1273-133 straight shaft classic handle
- 1273-181 straight shaft ergonomic handle
- 1273-145 curved left shaft classic handle
- 1273-183 curved left shaft ergonomic handle
- 1273-144 curved right shaft classic handle
- 1273-182 curved right shaft ergonomic handle
- 1273-147 upswept shaft classic handle
- 1273-184 upswept shaft ergonomic handle



**Gawsling Basket Punch / large / 5" straight shaft / 4.50 mm bite width / 6.15 mm tip width**

- 1273-185 classic handle
- 1273-186 ergonomic handle



**Gawsling Basket Punch / large / upbiter / 5" straight shaft / 4.50 mm bite width / 6.15 mm tip width**

- 1273-187 classic handle
- 1273-188 ergonomic handle



**Gawsling Punch Elevator / 5" straight shaft / 3.20 mm bite width / 5.00 mm tip width**

- 1273-189 classic handle
- 1273-190 ergonomic handle



**KNEE INSTRUMENTS**

**Punch**

The small aggressive tip provides excellent maneuverability and multiple plane cutting capability in the tightest joint

**Basket Punch / slim style / 5" shaft / 1.67 mm bite width / 2.89 mm tip width**

1273-320	straight shaft	classic handle
1273-321	straight shaft	ergonomic handle
1273-322	upswept shaft	classic handle
1273-323	upswept shaft	ergonomic handle



**Basket Punch / slim style / 5" shaft / 1.67 mm bite width / 2.89 mm tip width**

1273-326	straight shaft	45° angled left	classic handle
1273-327	straight shaft	45° angled left	ergonomic handle
1273-324	straight shaft	45° angled right	classic handle
1273-325	straight shaft	45° angled right	ergonomic handle



**Hook Punch / slim style / upbiter / 5" shaft / 1.67 mm bite width / 2.89 mm tip width**

1273-330	straight shaft	classic handle
1273-331	straight shaft	ergonomic handle
1273-334	curved left shaft	classic handle
1273-335	curved left shaft	ergonomic handle
1273-332	curved right shaft	classic handle
1273-333	curved right shaft	ergonomic handle



**Punch**

The lowest profile tip with the largest bite offers the most versatile instrument available

**Basket Punch / oval / 5" shaft / 4.39 mm bite width / 6.57 mm tip width**

1273-238	straight shaft	classic handle
1273-239	straight shaft	ergonomic handle
1273-242	curved left shaft	classic handle
1273-243	curved left shaft	ergonomic handle
1273-240	curved right shaft	classic handle
1273-241	curved right shaft	ergonomic handle
1273-244	upswept shaft	classic handle
1273-245	upswept shaft	ergonomic handle



**Basket Punch / oval / upbiter / 5" shaft / 4.39 mm bite width / 6.57 mm tip width**

1273-248	straight shaft	classic handle
1273-247	straight shaft	ergonomic handle
1273-252	curved left shaft	classic handle
1273-251	curved left shaft	ergonomic handle
1273-250	curved right shaft	classic handle
1273-249	curved right shaft	ergonomic handle
1273-254	upswept shaft	classic handle
1273-253	upswept shaft	ergonomic handle



**KNEE INSTRUMENTS**

**Punch**

These instruments have a flexible purpose due to their different sizes

**Basket Punch Scoop / 5" shaft / 1.59 mm bite width / 3.25 mm tip width**

1273-256	1.0 mm straight shaft	classic handle
1273-257	1.0 mm straight shaft	ergonomic handle
1273-262	1.0 mm upswept shaft	classic handle
1273-263	1.0 mm upswept shaft	ergonomic handle
1273-260	1.3 mm curved left shaft	classic handle
1273-261	1.3 mm curved left shaft	ergonomic handle
1273-258	1.3 mm curved right shaft	classic handle
1273-259	1.3 mm curved right shaft	ergonomic handle



**Basket Punch Scoop / 1.3 mm / upbiter / 5" shaft / 1.59 mm bite width / 3.27 mm tip width**

1273-266	straight shaft	classic handle
1273-265	straight shaft	ergonomic handle
1273-270	curved left shaft	classic handle
1273-269	curved left shaft	ergonomic handle
1273-268	curved right shaft	classic handle
1273-267	curved right shaft	ergonomic handle



**Basket Punch Scoop / 5" shaft / 1.59 mm bite width**

1273-278	3.27 mm tip width	1.3 mm upswept shaft	classic handle
1273-280	3.27 mm tip width	1.3 mm upswept shaft	ergonomic handle
1273-277	3.88 mm tip width	1.5 mm straight shaft	classic handle
1273-279	3.88 mm tip width	1.5 mm straight shaft	ergonomic handle



**Basket Punch Scoop / downbiter / 5" straight shaft / 1.59 mm bite width / 3.27 mm tip width**

1273-281	1.3 mm shaft	classic handle
1273-282	1.3 mm shaft	ergonomic handle



**Basket Punch Scoop / upbiter / 5" shaft**

1273-276	1.59 mm bite width	3.88 mm tip width	1.5 mm upswept shaft	classic handle
1273-275	1.59 mm bite width	3.88 mm tip width	1.5 mm upswept shaft	ergonomic handle
1273-272	1.77 mm bite width	3.58 mm tip width	2.7 mm straight shaft	classic handle
1273-271	1.77 mm bite width	3.58 mm tip width	2.7 mm straight shaft	ergonomic handle
1273-274	2.03 mm bite width	3.76 mm tip width	3.4 mm straight shaft	classic handle
1273-273	2.03 mm bite width	3.76 mm tip width	3.4 mm straight shaft	ergonomic handle



**Basket Punch Scoop / upbiter / 5" straight shaft / 1.59 mm bite width / 3.88 mm tip width**

1273-283	classic handle
1273-284	ergonomic handle



**Basket Punch / short cut / 5" straight shaft / 1.67 mm bite width / 3.32 mm tip width**

1273-200	classic handle
1273-201	ergonomic handle



**KNEE INSTRUMENTS**

**Punch**

The meniscal elevator with the extended lip of the lower jaw assists to slide easily under a tight meniscus

**Basket Punch / meniscal elevator / 5" straight shaft / 1.60 mm bite width / 3.20 mm tip width / 1.3 mm shaft**

- 1273-290 classic handle
- 1273-291 ergonomic handle



**Basket Punch / meniscal elevator / upbiter / 5" straight shaft / 1.60 mm bite width / 3.20 mm tip width / 1.3 mm shaft**

- 1273-292 classic handle
- 1273-293 ergonomic handle



**Punch**

The blunt tip enables this instrument to get into the posterior horn for flush trimming of the meniscus

**Hook Punch / blunt nose 1.0 mm / 5" shaft / 1.67 mm bite width / 3.32 mm tip width**

- 1273-362 straight shaft classic handle
- 1273-363 straight shaft ergonomic handle
- 1273-368 upswept shaft classic handle
- 1273-369 upswept shaft ergonomic handle
- 1273-366 curved left shaft classic handle
- 1273-367 curved left shaft ergonomic handle
- 1273-364 curved right shaft classic handle
- 1273-365 curved right shaft ergonomic handle



**Punch**

The short jaw and the gradually tapered shaft permit the tip to open wide for cutting in tight posterior compartments

**Posterior Basket Punch / 5" shaft / 2.18 mm bite width / 4.00 mm tip width / straight tip**

- 1273-300 straight shaft classic handle
- 1273-301 straight shaft ergonomic handle
- 1273-304 curved left shaft classic handle
- 1273-305 curved left shaft ergonomic handle
- 1273-302 curved right shaft classic handle
- 1273-303 curved right shaft ergonomic handle
- 1273-306 upswept shaft classic handle
- 1273-307 upswept shaft ergonomic handle



**Posterior Basket Punch / upbiter / 5" shaft / 2.18 mm bite width / 4.00 mm tip width**

- 1273-310 straight shaft classic handle
- 1273-311 straight shaft ergonomic handle
- 1273-314 curved left shaft classic handle
- 1273-315 curved left shaft ergonomic handle
- 1273-312 curved right shaft classic handle
- 1273-313 curved right shaft ergonomic handle



**Punch**

The backbiting capability of this punch offers the most direct access to the anterior meniscus

**Basket Punch Unicorn / 5" straight shaft / 2.38 mm bite width / 5.58 mm tip width**

- 1273-296 left cut classic handle
- 1273-297 left cut ergonomic handle
- 1273-294 right cut classic handle
- 1273-295 right cut ergonomic handle



**KNEE INSTRUMENTS**

**Punch**

This punch offers an effective angle for the anterior meniscus. The tip allows successive bites, ideal for balancing the meniscal rim.

**Rotary Basket Punch / 5" straight shaft / 90° jaw / rotatable handle /**

- 1273-287 2.20 mm bite width 4.10 mm tip width 2.2mm shaft angled left
- 1273-286 2.20 mm bite width 4.10 mm tip width 2.2mm shaft angled right
- 1273-289 3.40 mm bite width 5.30 mm tip width 3.4mm shaft angled left
- 1273-288 3.40 mm bite width 5.30 mm tip width 3.4mm shaft angled right



**Rongeur**

Enables cutting and removal of tissue particularly useful in ACL surgery

**Rongeur Raptor / 5" straight shaft**

- 1273-376 classic handle
- 1273-377 ergonomic handle



**Punch**

The small bite size allows for increased visibility and consistently provides a clean shear cut

**Scissors Punch / 5" shaft / 1.20 mm bite width / 2.80 mm tip width / straight tip**

- 1273-340 straight shaft classic handle
- 1273-341 straight shaft ergonomic handle
- 1273-344 curved left shaft classic handle
- 1273-345 curved left shaft ergonomic handle
- 1273-342 curved right shaft classic handle
- 1273-343 curved right shaft ergonomic handle



**Scissors Punch / upbiter / 5" shaft / 1.20 mm bite width / 2.80 mm tip width**

- 1273-129 straight shaft classic handle
- 1273-347 straight shaft ergonomic handle
- 1273-132 curved left shaft classic handle
- 1273-351 curved left shaft ergonomic handle
- 1273-130 curved right shaft classic handle
- 1273-349 curved right shaft ergonomic handle



**Scissors**

Teeth on the top hook of the instrument prevent tissue from slipping off and allows a clean cut

**Hook Scissors / 5" shaft**

- 1273-354 straight shaf classic handle
- 1273-355 straight shaft ergonomic handle
- 1273-358 curved left shaft classic handle
- 1273-359 curved left shaft ergonomic handle
- 1273-356 curved right shaft classic handle
- 1273-357 curved right shaft ergonomic handle



**KNEE INSTRUMENTS**

**Scissors**

Ideal for manipulation of all aspects of the meniscus because of its unique sideways cutting action and ability to fit into tight areas

**Rotary Hook Scissors / 5" straight shaft / 20° / rotatable handle**

- 1273-361 angled left
- 1273-360 angled right



**Rotary Scissors serrated / 5" straight shaft / 20° / rotatable handle**

- 1273-353 angled left
- 1273-352 angled right



**Rotary Hook Scissors / 5" straight shaft / 60° / rotatable handle**

- 1273-131 angled left
- 1273-137 angled right



**Forceps**

Ideal for manipulation of all aspects of the meniscus because of its unique sideways cutting action and ability to fit into tight areas

**Grasping Forceps / 1x2 teeth / 5" straight shaft / slide-lock handle**

- 1273-115



**Grasping Forceps / cupped / serrated / 5" straight shaft / slide-lock handle**

- 1273-380 2.7 mm
- 1273-381 3.4 mm



**Grasping Forceps Alligator / upbiter / 5" shaft / 2.7 mm / slide-lock handle**

- 1273-382 straight shaft
- 1273-383 upswept shaft



**Grasping Forceps Crocodile / 5" shaft / 2.7 mm / slide-lock handle**

- 1273-112 straight shaft
- 1273-110 upswept shaft



**Grasping Forceps Alligator / 5" shaft / 3.4 mm / slide-lock handle**

- 1273-384 straight shaft
- 1273-385 upswept shaft



**Tissue Grasping Forceps / 5" straight shaft / slide-lock handle**

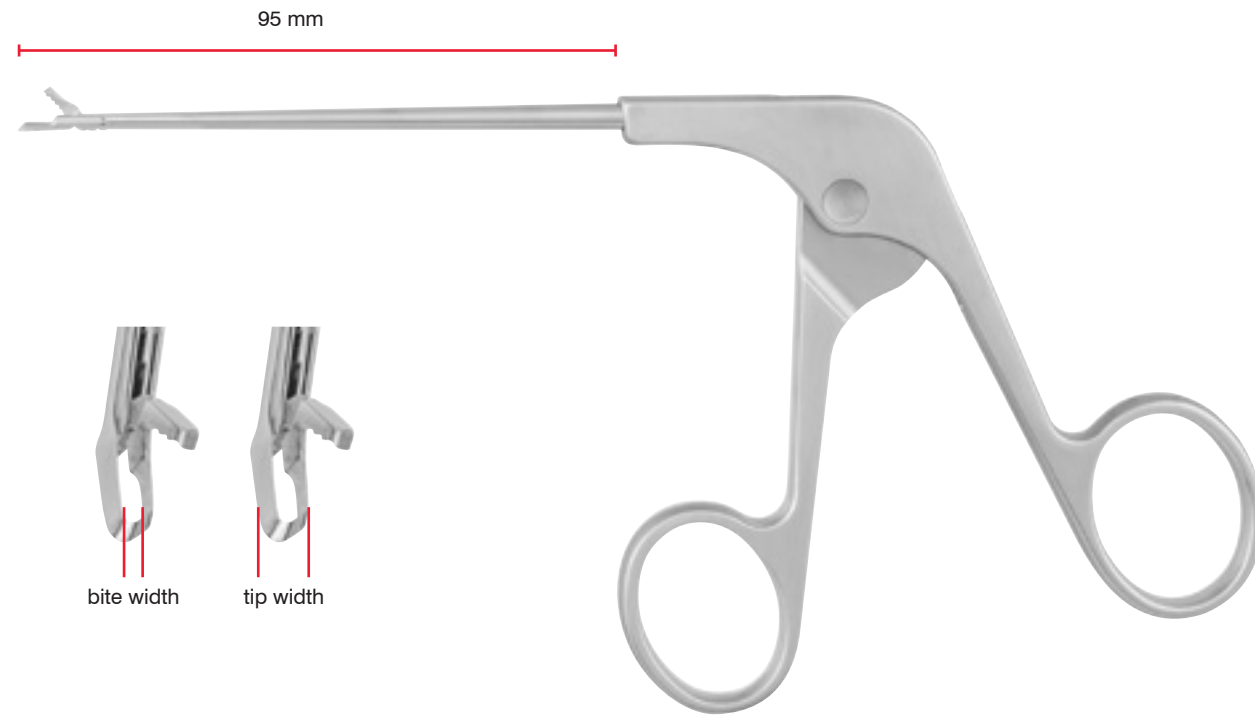
- 1273-386 without channel
- 1273-387 with 2 mm channel



**KNEE INSTRUMENTS**



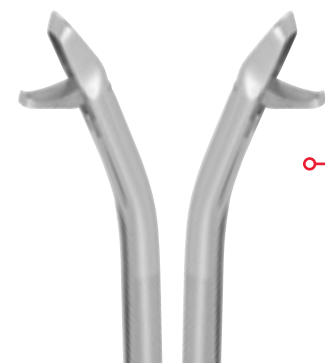
SMALL JOINT INSTRUMENTS



**Straight:** The primary style for direct approach

**Upbiter:** Angled up at the tip

**Upswept:** Angled up on the shaft



**Curved left and curved right:** Curved on the shaft left or right

SMALL JOINT INSTRUMENTS

Classic Handle

Scissors, basket punches and graspers are equipped with our traditional classic handle



Slide Lock Handle

All graspers are equipped with this infinite position locking handle design



**SMALL JOINT INSTRUMENTS**

Designed especially for small joints, these instruments have shorter stems and smaller jaws to provide ideal access for the elbow, wrist and ankle

**Punch**

**Punch / oval Jr. / 3 3/4" shaft / 2.30 mm bite width / 3.50 tip width / classic handle**

- 1273-151 straight shaft
- 1273-153 left Cvd Shaft
- 1273-152 right Cvd Shaft



**Basket Punch / Jr. / 3 3/4" straight shaft / 2.30 mm bite width / 3.50 tip width / classic handle**

- 1273-150
- 1273-150L left curved shaft



**Basket Punch / Jr. / upbiter / 3 3/4" straight shaft / 2.30 mm bite width / 3.50 tip width / classic handle**

- 1273-154



**Basket Punch / blunt Jr. / 3 3/4" straight shaft / 1.70 mm bite width / 3.00 tip width / classic handle**

- 1273-155



**Scissors**

**Hook Scissors / 3 3/4" straight shaft / classic handle**

- 1273-156



**Rongeur**

**Rongeur Raptor / Jr. / 3 3/4" straight shaft / classic handle**

- 1273-161



**Forceps**

**Grasping Forceps Alligator / Jr. / 3 3/4" straight shaft / slide-lock handle**

- 1273-122



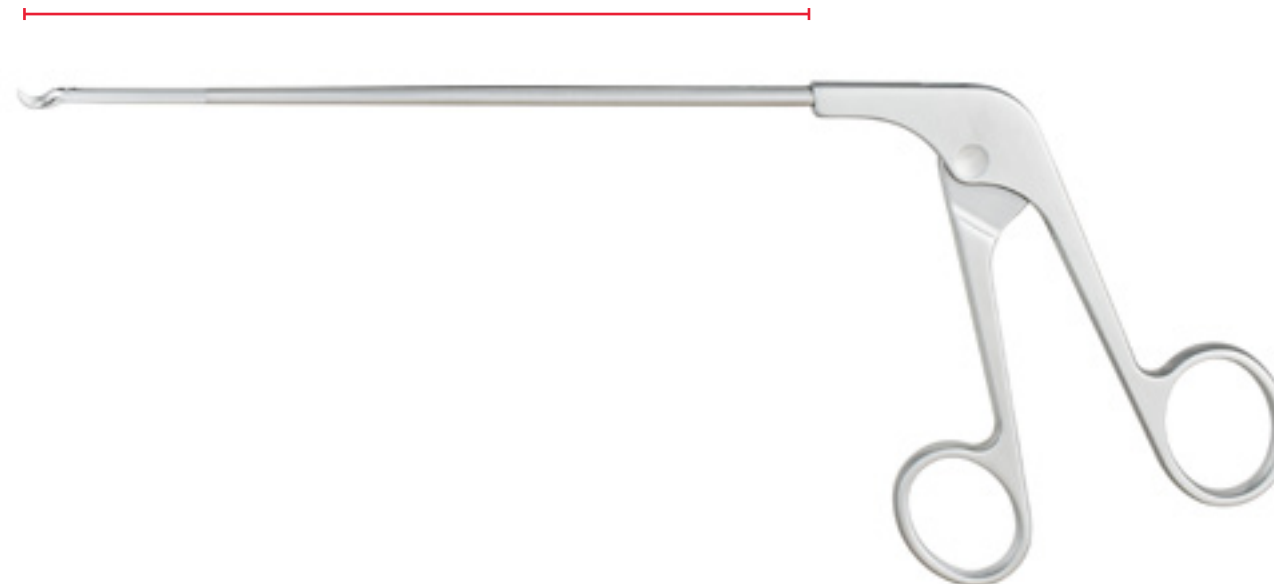
**Grasping Forceps Alligator / Jr. / 1x2 teeth / 3 3/4" shaft / slide-lock handle**

- 1273-123



**SHOULDER INSTRUMENTS**

155 mm



**Straight:** The primary style for direct approach

**Upbiter:** Angled up at the tip

**Upswept:** Angled up on the shaft

**Curved left and curved right:** Curved on the shaft left or right

SHOULDER INSTRUMENTS

Classic Handle

Scissors, basket punches and graspers are equipped with our traditional classic handle



Slide Lock Handle

All graspers are equipped with this infinite position locking handle design



Positioning Handle



SHOULDER INSTRUMENTS

Hook

Clever Suture Hook / 6" straight shaft

- 1273-408 green handle pointed tip left
- 1273-407 red handle pointed tip right



Sixter Suture Hook / 6" straight shaft

- 1273-410 green handle tip turned left
- 1273-409 red handle tip turned right



**SHOULDER INSTRUMENTS**

These instruments were designed specifically for the shoulder area. The low-profile and highly sharpened tip allows easy passage through tissue in order to retrieve or apply a suture. Also the instruments for grasping the engagement is facilitated by the shape of the jaw.

**Forceps**

**Bird Beak Suture Hook Forceps / 6" straight shaft / classic handle**

1273-401



**Bird Beak Suture Hook Forceps / 6" straight shaft / classic handle**

1273-403 45° angled left jaw  
1273-402 45° angled right jaw



**Bird Beak Suture Hook Forceps / upbiter / 6" straight shaft / classic handle**

1273-404 20° up jaw  
1273-405 40° up jaw



**Grasper**

**Suture Retriever Grasper / serrated / 6" straight shaft / slide-lock handle**

1273-415



**Suture Retriever Grasper / serrated / 6" straight shaft / slide-lock handle**

1273-418 45° angled left jaw  
1273-417 45° angled right jaw



**Suture Retriever Grasper / serrated / 15° angled up jaw / 6" straight shaft / slide-lock handle**

1273-416



**King Suture Retriever Grasper / cross-serrated / 6" straight shaft / slide-lock handle**

1273-420



**Forceps**

**Tissue Grasping Forceps / 6" straight shaft / slide-lock handle**

1273-422



**SHOULDER INSTRUMENTS**

**Punch**

**Suture Punch / 6" straight shaft / classic handle**

1273-424



**Hook**

**Double Hook Suture Hook / 6" straight shaft / classic handle**

1273-426



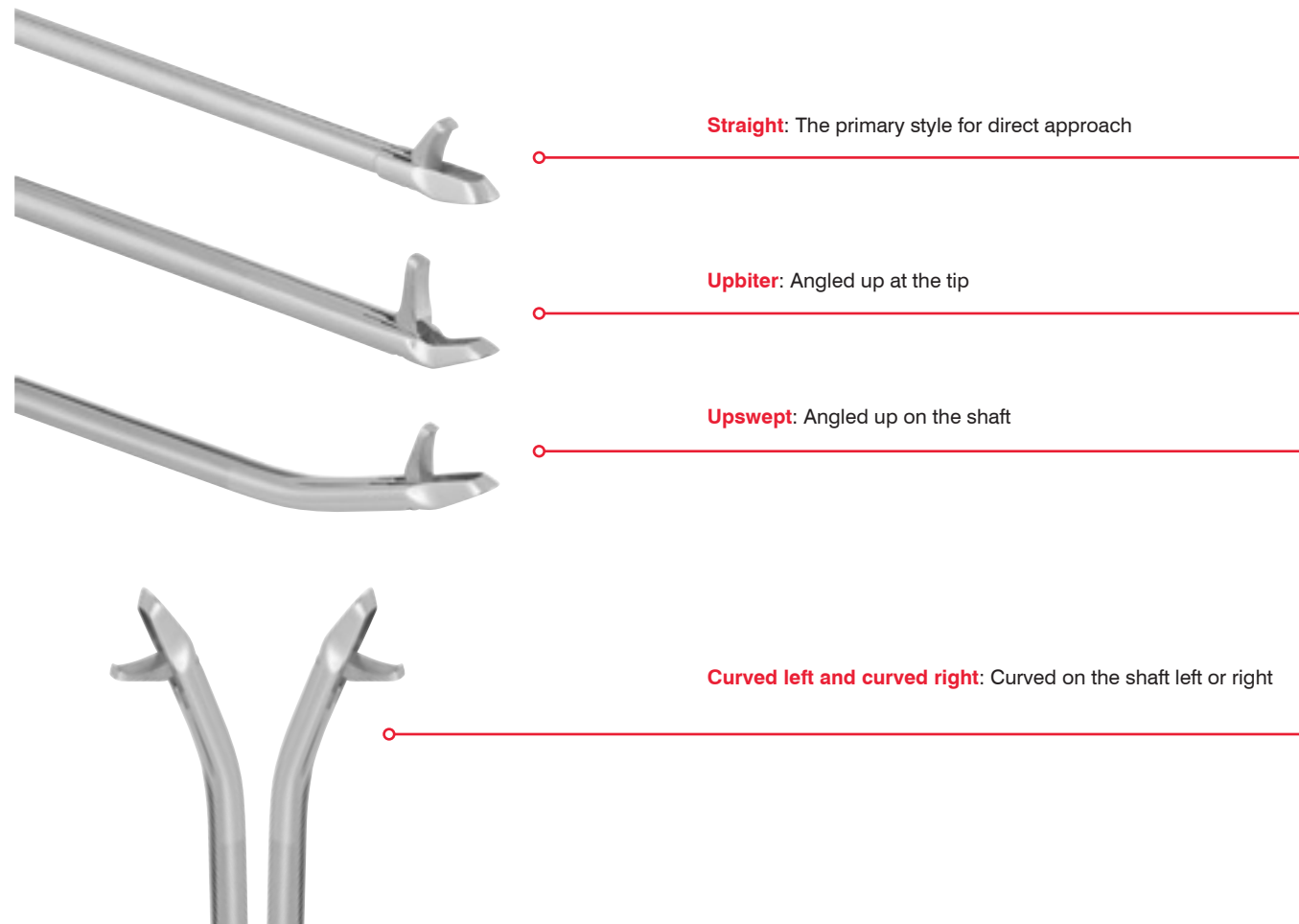
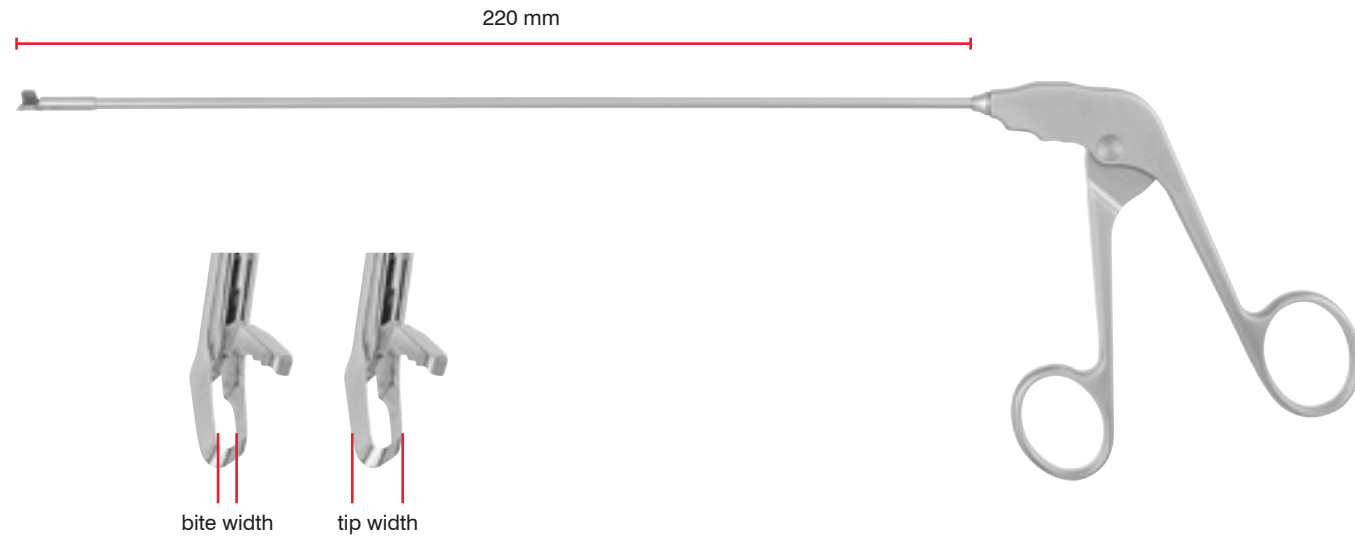
**Hook**

**Sliding Suture Hook / 6" straight shaft / positioning handle**

1273-428



HIP INSTRUMENTS



HIP INSTRUMENTS

Classic Handle

Scissors, basket punches and graspers are equipped with our traditional classic handle



Slide Lock Handle

All graspers are equipped with this infinite position locking handle design



Rotatable Handle

Available on rotary basket punches and scissors



**HIP INSTRUMENTS**

These instruments were specifically designed with the additional challenges of hip arthroscopy in mind. Their extra length and low profile offer excellent access to the hip joint.

**Punch**

Hook Punch small / 8 1/4" straight shaft / 1.67 mm bite width / 2.89 tip width / classic handle  
1273-440



Hook Punch small / upbiter / 8 1/4" straight shaft / 1.67 mm bite width / 2.89 tip width / classic handle  
1273-441



Basket Punch small / 8 1/4" straight shaft / 1.67 mm bite width / 2.89 tip width / classic handle  
1273-435 45° down left  
1273-434 45° down right



Gawsling Punch medium / 8 1/4" straight shaft / 3.20 mm bite width / 5.00 tip width / classic handle  
1273-431  
1273-433 upswept shaft



Gawsling Punch medium / upbiter / 8 1/4" straight shaft / 3.20 mm bite width / 5.00 tip width / classic handle  
1273-432



Basket Punch unicorn / 8 1/4" straight shaft / 2.38 mm bite width / 5.58 tip width / classic handle  
1273-437 left cut  
1273-436 right cut



**Rongeur**

Rongeur Raptor / 8 1/4" straight shaft / classic handle  
1273-447



**Punch**

Rotary Basket Punch / 2.2 mm 8 1/4" straight shaft / 2.20 mm bite width / 4.10 tip width / rotatable handle  
1273-439 90° angled left jaw  
1273-438 90° angled right jaw



**HIP INSTRUMENTS**

**Forceps**

Grasping Forceps / 1x2 teeth / 8 1/4" straight shaft / slide-lock handle  
1273-442



Grasping Forceps / cupped / serrated / 8 1/4" straight shaft / slide-lock handle  
1273-443 2.7 mm shaft  
1273-444 3.4 mm shaft



Grasping Forceps Alligator / 8 1/4" straight shaft / slide-lock handle  
1273-445



**Arthroscopic Crocodile Grasping Forceps**

**Straight / 2.7 mm jaw / 5" (13 cm) shaft**

- 1273-112 with locking mechanism
- 1273-113 without locking mechanism



**Arthroscopic Rottweiler Loosebody Grasping Forceps**

**With locking mechanism / 1 x 2 teeth / 2.7 mm / 6 1/2" (16.5 cm)**

- 1273-114 with locking mechanism
- 1273-1141 without locking mechanism



**Rottweiler Junior Loosebody Grasping Forceps**

With locking mechanism / straight / 1 x 2 teeth / 2.7 mm / 5" (12.7 cm)  
1273-115



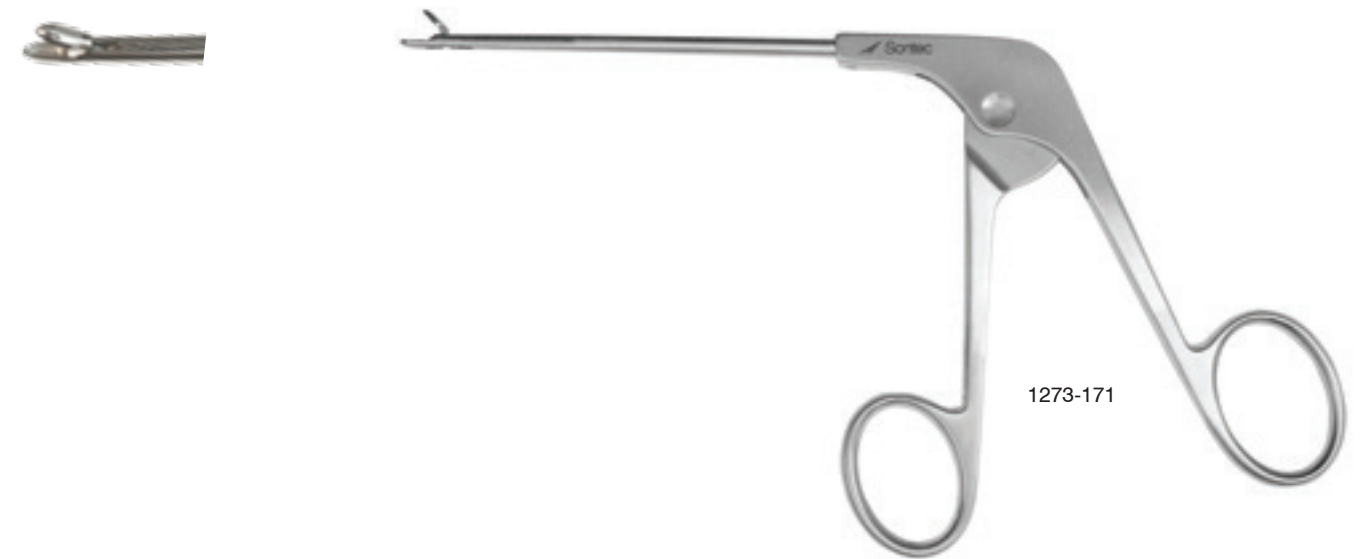
**Arthroscopic Velociraptor Biopsy Forceps**

Straight / 3.4 mm jaw / 5" (13 cm) shaft  
1273-162



**Arthroscopic Velociraptor Junior Biopsy Forceps**

Straight / 2.7 mm jaw / 3 1/2" (9 cm) shaft  
1273-171



**Arthroscopic Gawling Basket Punch**

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Up-bite / 3.2 mm jaw / 6 1/2" (16.5 cm) shaft  
1273-146



**Arthroscopic Saber Scissor Punch**

---

Straight / 2.7 mm / 6 1/2" (16.5 cm) shaft  
1273-135





 Sontec Instruments®

Bone & NAIL CUTTING Forceps

**Liston Bone Cutting Forceps**

**5 1/2" (14 cm)**

- 315-765 straight
- 315-775 angled

**6 1/2" (16.5 cm)**

- 315-766 straight
- 315-776 angled

**7 1/2" (19 cm)**

- 315-767 straight
- 315-777 angled
- 315-779 angled to side

**8 1/2" (21.5 cm)**

- 315-768 straight
- 315-778 angled

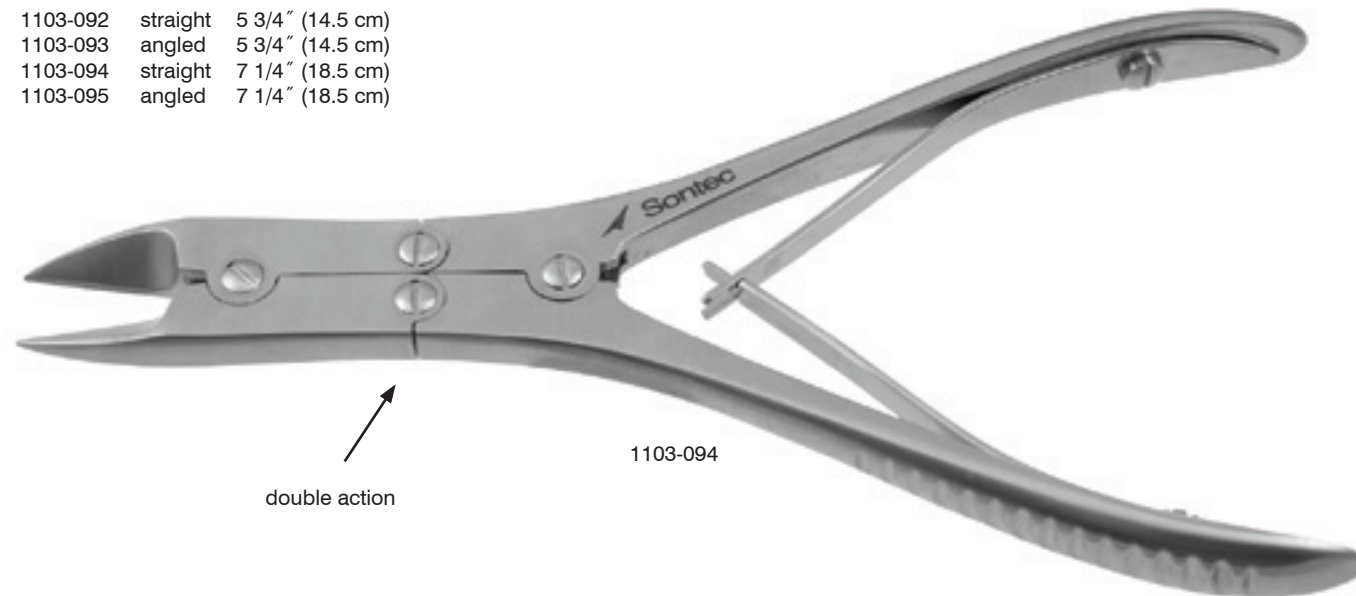


315-776

**Ruskin-Liston Bone Cutting Forceps**

**Double-action**

- 1103-092 straight 5 3/4" (14.5 cm)
- 1103-093 angled 5 3/4" (14.5 cm)
- 1103-094 straight 7 1/4" (18.5 cm)
- 1103-095 angled 7 1/4" (18.5 cm)



1103-094

**Councilman Bone Cutter**

**15" (38 cm)**

- 315-762



315-762

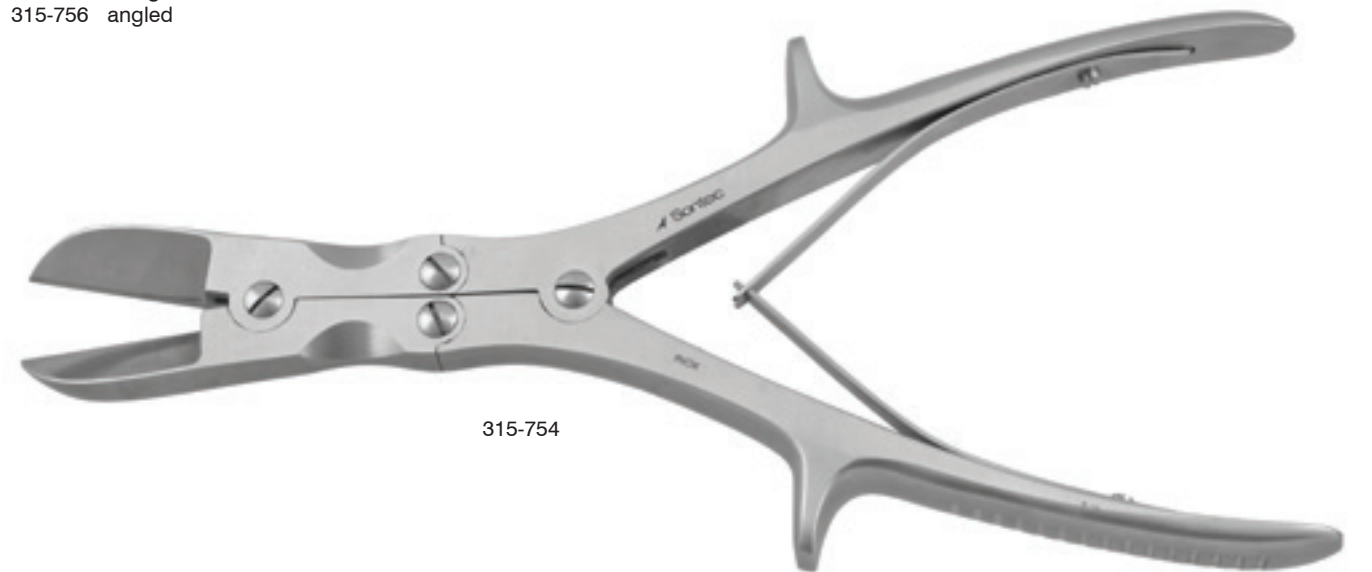
**Stille-Liston Bone Cutting Forceps**

**Double-action / 9" (23 cm)**

- 315-752 angled up

**Double-action / 10 1/2" (26 cm)**

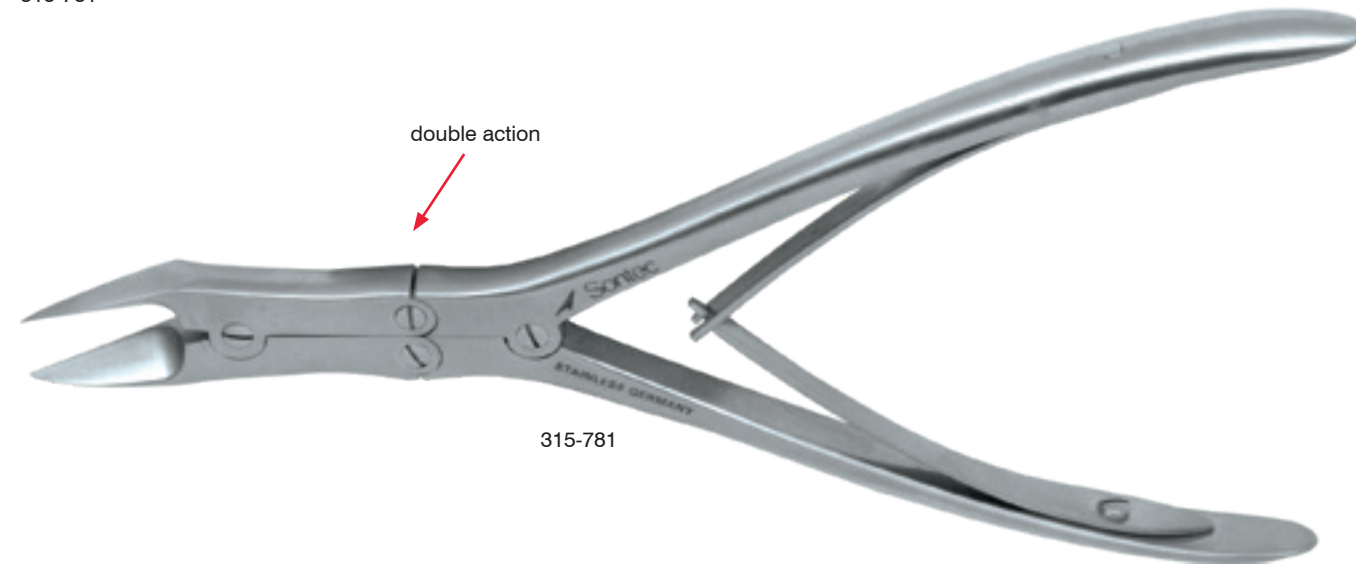
- 315-754 straight
- 315-756 angled



315-754

**McIndoe Bone Cutting Forceps**

Double-action / angled / 7 1/4" (18.5 cm)  
315-781



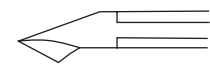
315-781

**Tissue Nipper**

- 199-220 6 mm 4" (10 cm)
- 199-221 9 mm 4" (10 cm)
- 199-222 11 mm 4 1/2" (11.5 cm)
- 199-223 14 mm 5" (13 cm)



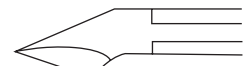
199-220



199-220



199-221



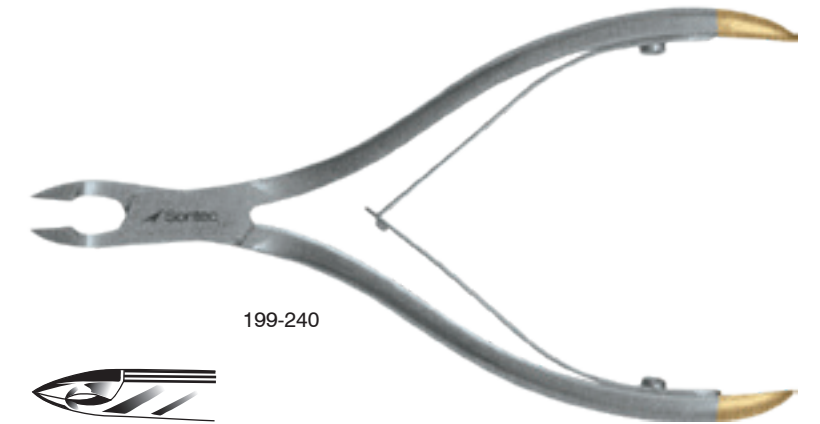
199-222



199-223

**Tissue and Cuticle Nipper**

Convex jaw / 4" (10 cm)  
199-240



199-240

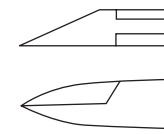


**Nail Splitter Forcep**

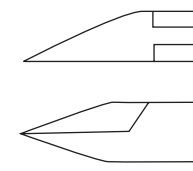
- Straight / tapered**
- 199-276 4" (10 cm)
  - 199-277 4 1/2" (11.5 cm)
  - 199-278 5" (13 cm)
  - 199-279 6" (15 cm)
  - 199-280 4 1/2" (11.5 cm) delicate



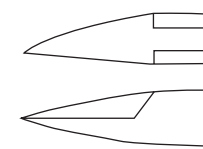
199-276



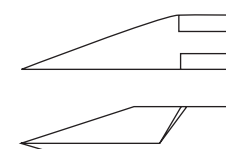
199-276



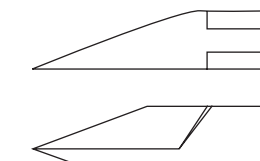
199-277



199-280



199-278



199-279

**Stille-Horsley Bone Cutter**

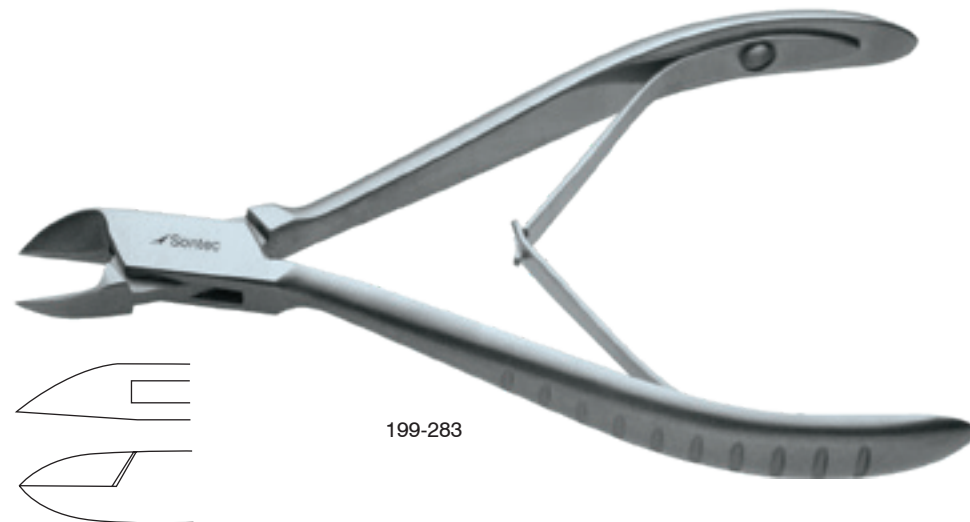
S-shaped / up-angle jaw / 10 1/2" (26.7 cm)  
315-760



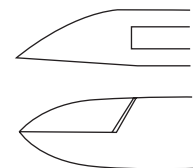
315-760

**Short Jaw Nail Splitter**

199-283 5" (13 cm)  
199-284 6" (15 cm)

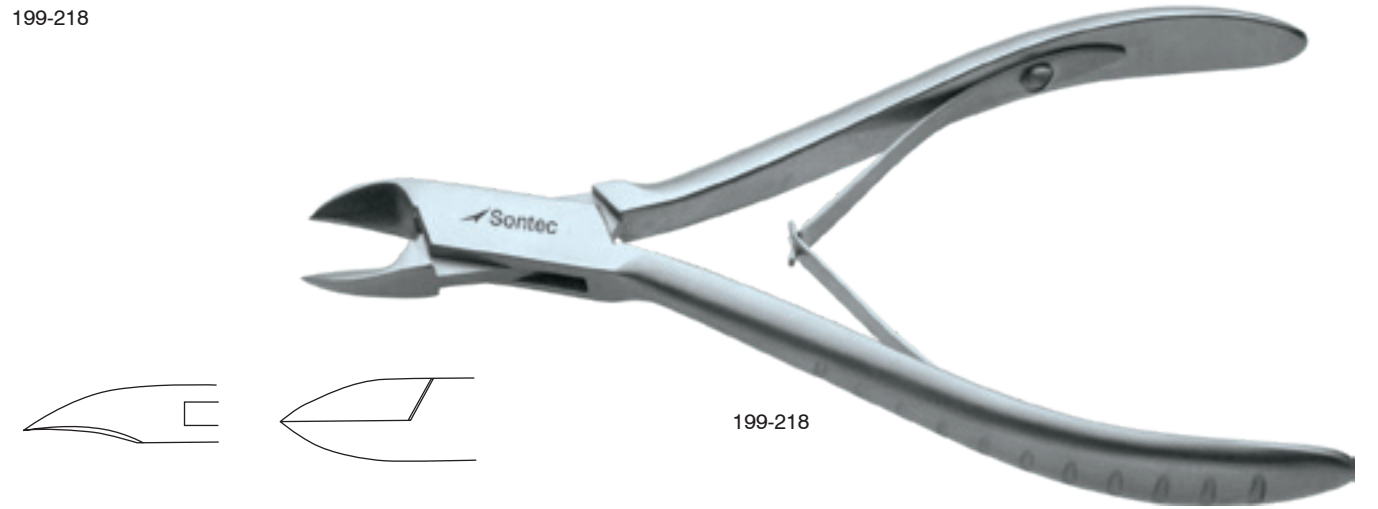


199-283



**Nail Nipper**

Concave / narrow / 5" (13 cm)  
199-218

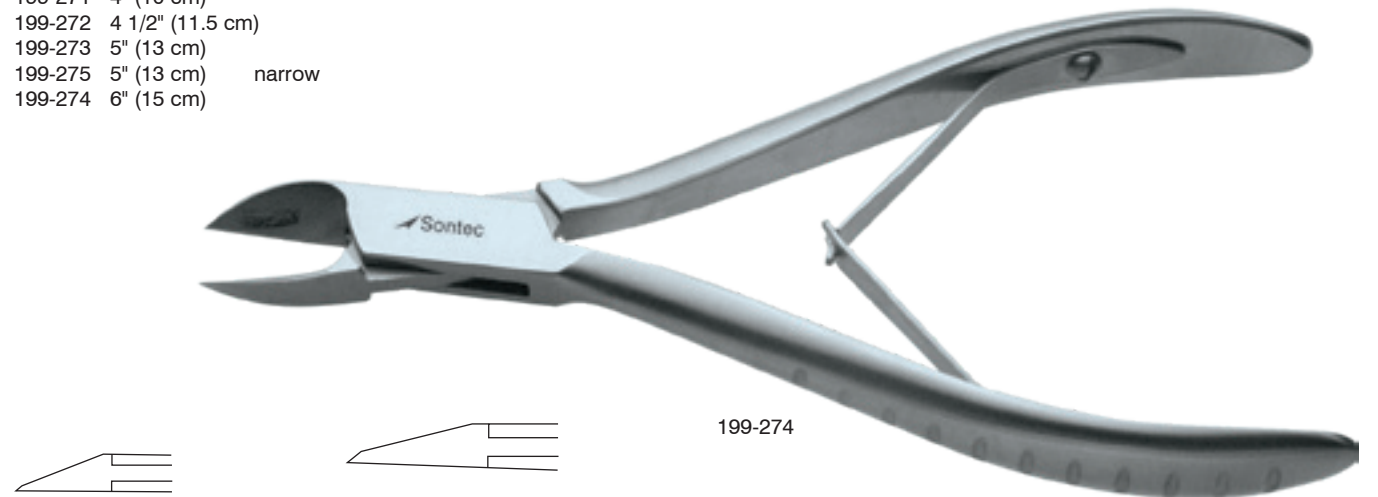


199-218

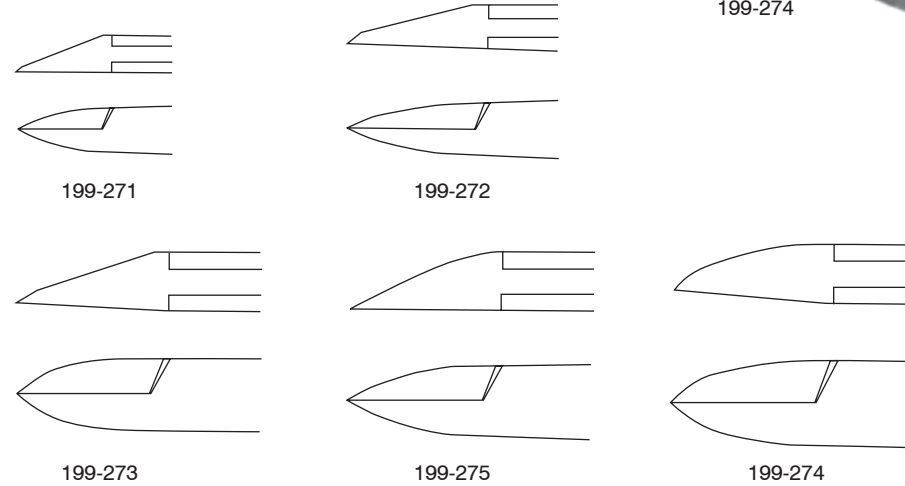


**Nail Splitter**

199-271 4" (10 cm)  
199-272 4 1/2" (11.5 cm)  
199-273 5" (13 cm)  
199-275 5" (13 cm) narrow  
199-274 6" (15 cm)

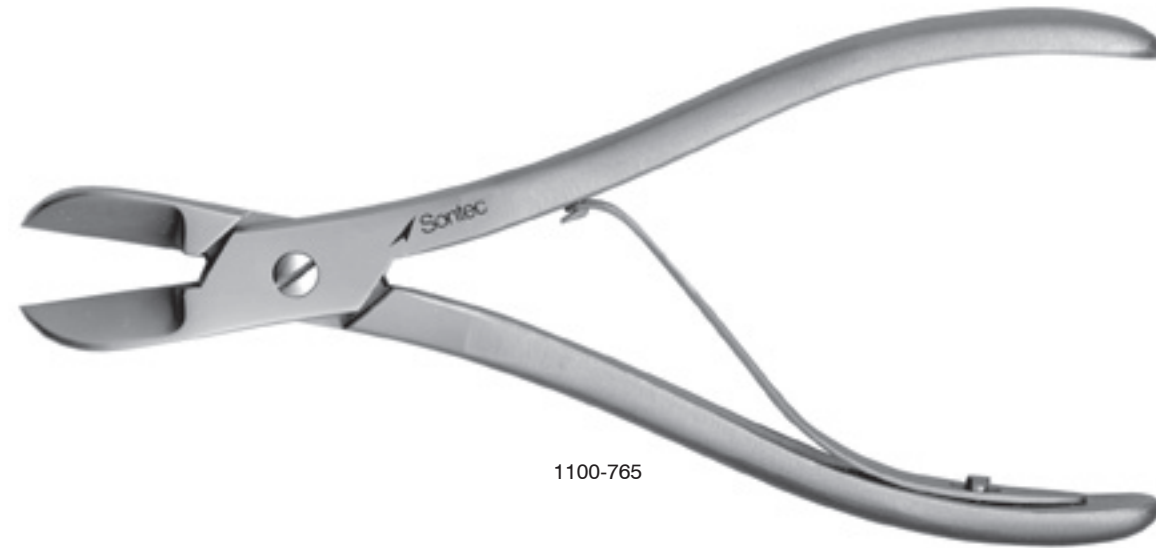


199-274



**Pigtooth Nipper**

5 1/2" (14 cm)  
1100-765



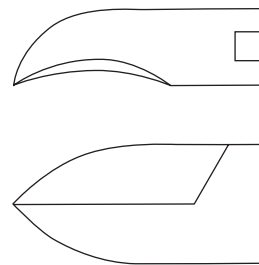
1100-765

**Heavy Nail Nipper**

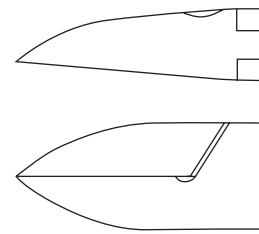
199-212 5 1/2" (14 cm) concave  
199-216 5 1/2" (14 cm) straight  
199-214 6 1/2" (16.5 cm) concave



199-214



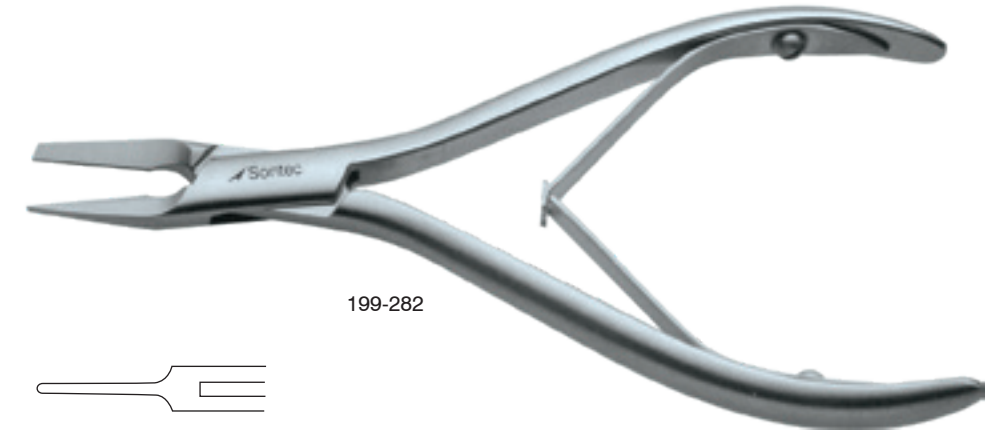
199-212  
199-214



199-216

**Ingrown Nail Forcep**

Straight / anvil pattern / narrow  
blade / 5" (13 cm)  
199-282



199-282

**Bone Cutter / Nail Nipper**

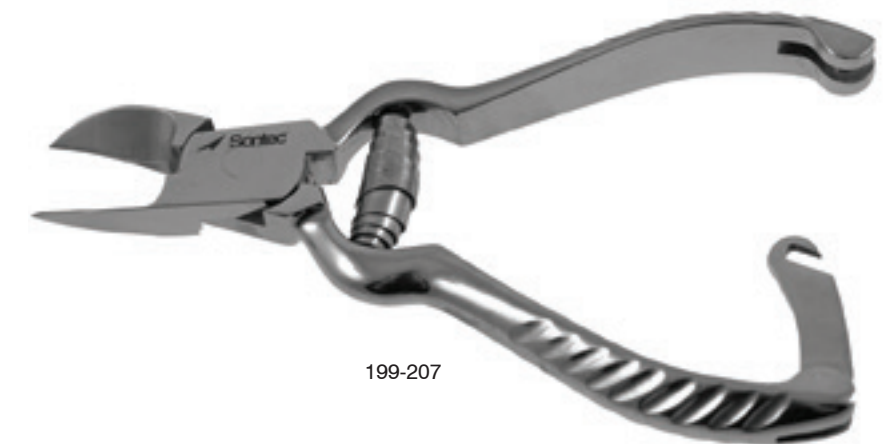
Double-action / 6" (15 cm)  
1103-090



1103-090

**Concave Nail Nipper**

Barrel spring / chrome / 4 1/2" (11.4 cm)  
199-207



199-207

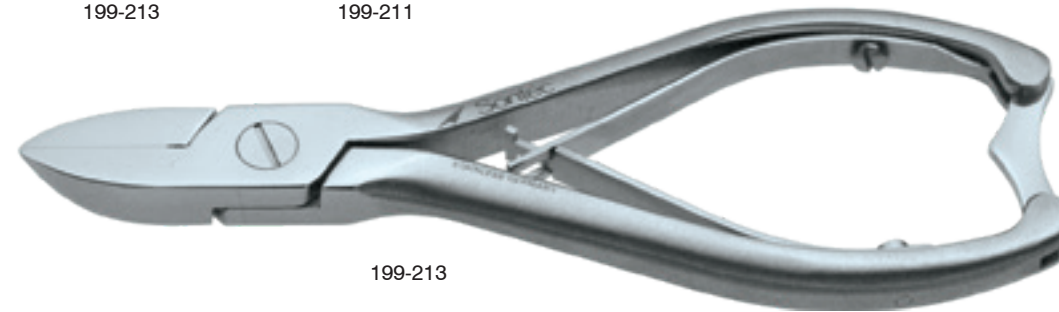
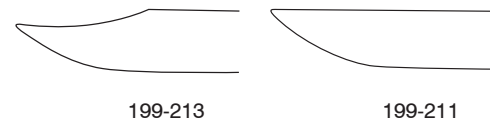
**Ingrown Nail Splitting Scissors**

Straight / 1 blade serrated / 6 3/4" (17.1 cm)  
1103-613



**Nail Nipper**

5 1/2" (14 cm)  
199-211 str  
199-213 cvd



**White Toe Nail Scissor**

4 1/2" (11.5 cm)  
1100-766



**Feline Nail Cutter**

Smaller / 3" (7.5 cm)  
1100-759



**Avian Nail Trimmer**

Blue ring handle / 3 3/4" (9.5 cm)  
1103-615





 Sontec Instruments®

Kerrison RONGEURS

**Universal Klick Kerrison Rongeur Set with Tray**

- 404-608-SET Set  
 Classic Standard Set includes:  
 404-6081 1 mm 40° 8" shaft  
 404-6082 2 mm 40° 8" shaft  
 404-6083 3 mm 40° 8" shaft  
 404-6084 4 mm 40° 8" shaft  
 404-6085 5 mm 40° 8" shaft  
 404-6086 2 universal handles

18-3564 tray only

To configure you own personalized set, refer to "Kerrison Section" > "Kerrison Universal Rotating 360° Rongeur" for all possible options

\*different size shafts available up request



**Kerrison Universal Rotating 360° Rongeur**

**Special**

404-606B handle \*special order

**Bayonet shaft / black ceramic / 12 1/2" (31.8 cm)**

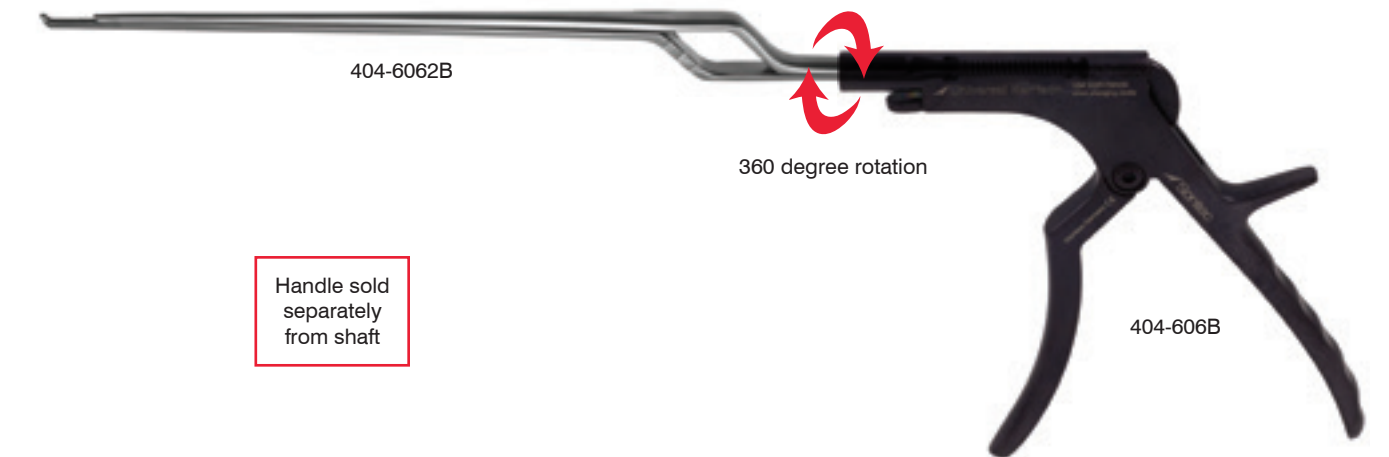
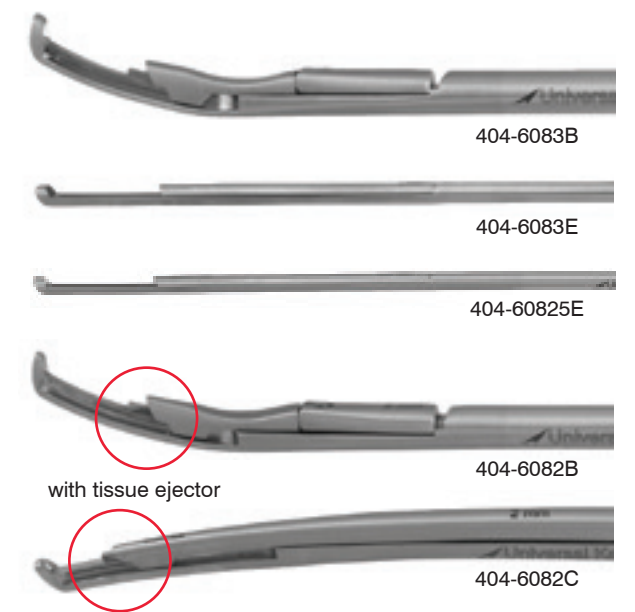
- 404-6061B 1 mm bite 40°  
 404-6062B 2 mm bite 40°  
 404-6063B 3 mm bite 40°

**Endoscopic / black ceramic / 16" (40.6 cm)**

404-6063EB 3 mm bite 40°

**Quick trigger release / shaft locks in 8 positions through a 360° rotation / 8" (20cm) shaft**

- 404-6082B 2 mm bite 40° up curved with tissue ejector  
 404-6082C 2 mm bite 40° down curved with tissue ejector  
 404-60825E 2.5 mm bit 40°  
 404-6083B 3 mm bite 40° up curved with tissue ejector  
 404-6083E 3 mm bite 40° endoscopic



Handle sold separately from shaft

**Kerrison Universal Rotating 360° Rongeur**

Quick trigger release / with tissue ejector / shaft locks in 8 positions through a 360° rotation / 8" (20cm) shaft / 40°

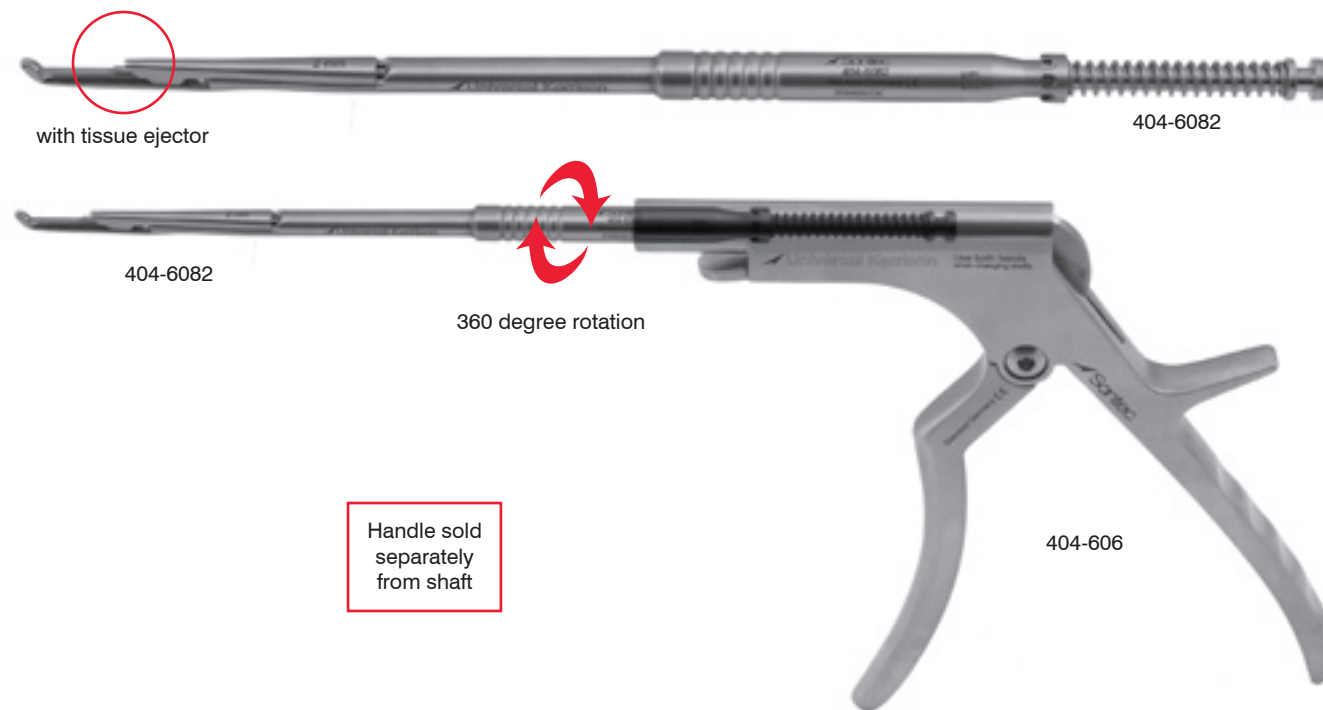
- 404-606 handle
- 404-605 full set includes: handle all 40° sizes 8", all 90° sizes 8"
- 404-6081 1 mm bite
- 404-6082 2 mm bite
- 404-6083 3 mm bite
- 404-6084 4 mm bite
- 404-6085 5 mm bite

With tissue ejector / 10" (25.5cm) shaft

- 404-606 handle
- 404-607 full set- includes: handle all 40° sizes 10", all 90° sizes 10"
- 404-6086 1 mm bite
- 404-6087 2 mm bite
- 404-6088 3 mm bite
- 404-6089 4 mm bite
- 404-6090 5 mm bite

7" (17.5cm) shaft

- 404-6091 0.8 mm bite
- 404-6093 1.5 mm bite



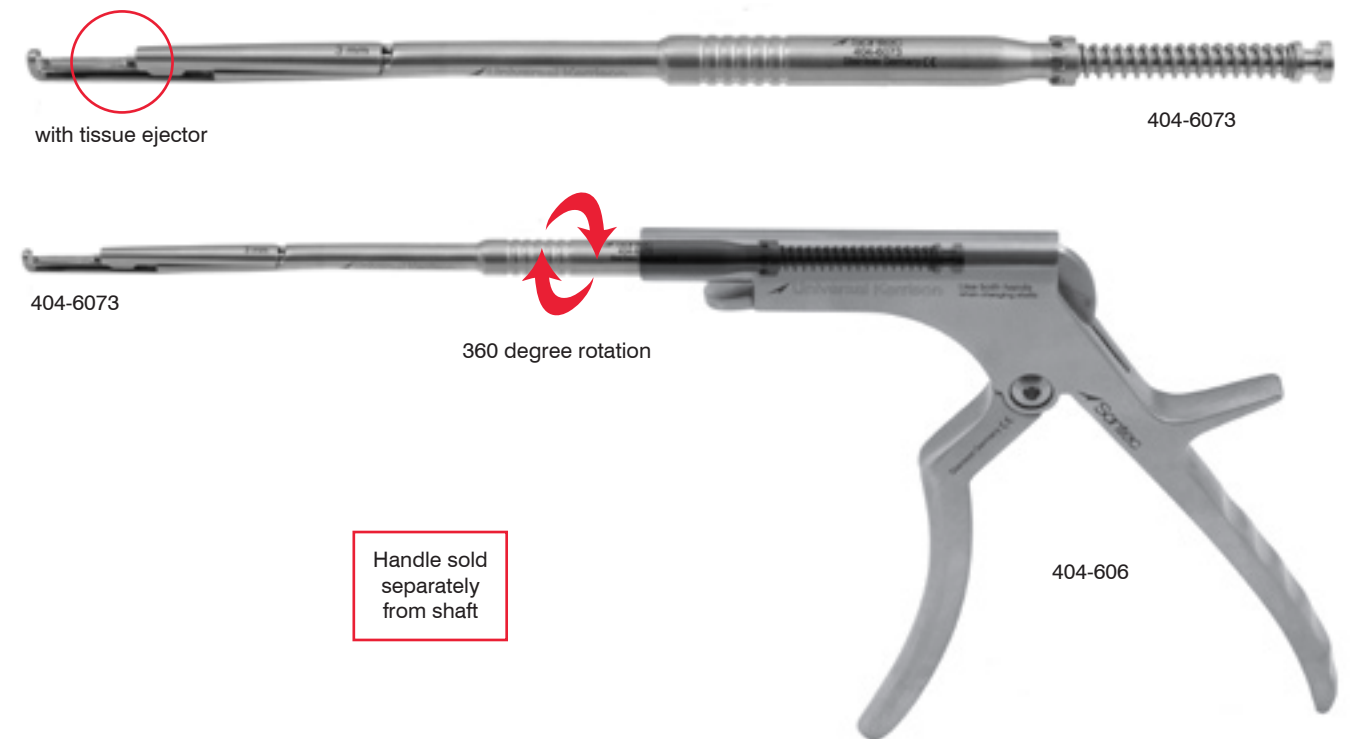
**Kerrison Universal Rotating 360° Rongeur**

Quick trigger release / with tissue ejector / shaft locks in 8 positions through a 360° rotation / 8" (20cm) shaft / 90°

- 404-606 handle
- 404-605 full set includes: handle all 40° sizes 8", all 90° sizes 8"
- 404-6071 1 mm bite 90°
- 404-6072 2 mm bite 90°
- 404-6073 3 mm bite 90°
- 404-6074 4 mm bite 90°
- 404-6075 5 mm bite 90°

With tissue ejector / 10" (25.5cm) shaft

- 404-606 handle
- 404-607 full set- includes: handle all 40° sizes 10", all 90° sizes 10"
- 404-6076 1 mm bite 90°
- 404-6077 2 mm bite 90°
- 404-6078 3 mm bite 90°
- 404-6079 4 mm bite 90°
- 404-6080 5 mm bite 90°



**Kerrison Universal Rotating 360° Rongeur Handle**

- 404-606 stainless steel
- 404-606B black ceramic
- 404-606SB black ceramic silicone handle



404-606



404-606SB



404-606B

**Sontec Beatty Foraminotomy Rongeur**

**7 3/4" (19.5 cm) shaft / curved up**

- 404-461 2 mm bite
- 404-462 3 mm bite
- 404-463 4 mm bite

**7 3/4" (19.5 cm) shaft / curved down**

- 404-450 2 mm bite
- 404-451 3 mm bite
- 404-452 4 mm bite

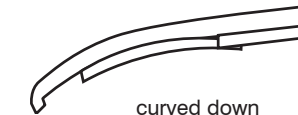
\* Also available with rounded footplate



slightly curved up



curved up



curved down



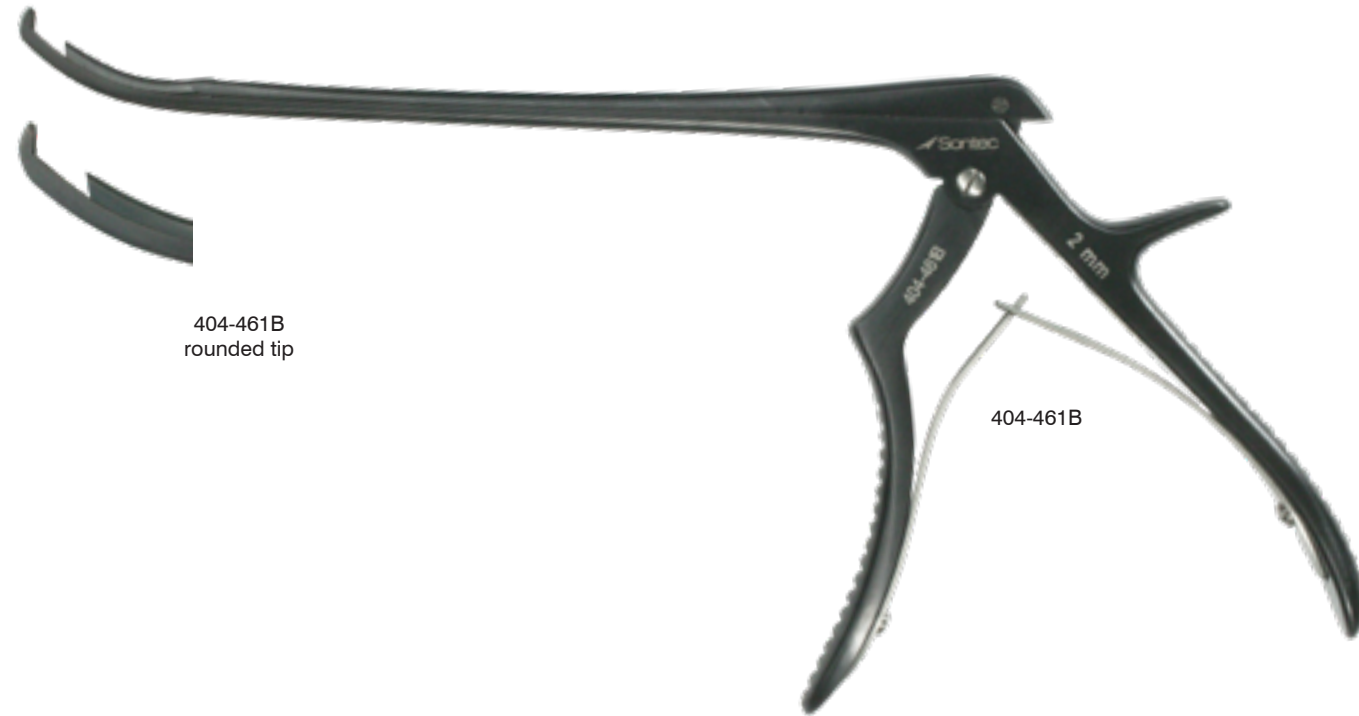
404-462

**Beatty Foraminotomy Rongeur**

Black ceramic coating / 8" (20.3 cm) shaft / slightly curved up

- 404-461B 2 mm bite
- 404-462B 3 mm bite
- 404-463B 4 mm bite

\* Also available with rounded footplate



**Kerrison 40° Rongeur**

Black ceramic coated / thin footplate punch / 10 mm opening

	Bite Width	Length of Shaft		
		6" / 15 cm	7" / 18 cm	8" / 21 cm
40° Up-Angle	1 mm	404-490B	404-539B	404-400B
	1.5 mm		<b>NEW SIZE</b> 404-5391	
	2 mm	404-491B	404-540B	404-402B
	2.5 mm		<b>NEW SIZE</b> 404-5401	
	3 mm	404-492B	404-541B	404-404B
	4 mm	404-493B	404-542B	404-406B
	5 mm	404-494B	404-543B	404-408B
	6 mm	404-495B	404-544B	404-410B



**Kerrison 90° Rongeur**

Black ceramic coated / 10 mm opening

	Bite Width	Length of Shaft		
		6" / 15 cm	7" / 18 cm	8" / 21 cm
Up-Bite	1 mm	404-470B	404-519B	404-412B
	2 mm	404-471B	404-520B	404-414B
	3 mm	404-472B	404-521B	404-416B
	4 mm	404-473B	404-522B	404-418B
	5 mm	404-474B	404-523B	404-420B
	6 mm	404-475B	404-524B	404-422B



404-520B

**Kerrison 90° Rongeur**

Thin footplate-punch / ceramic coating

	Bite Width	Length of Shaft		
		6" / 15 cm	7" / 18 cm	8" / 21 cm
90° Down-Bite	1 mm	404-480B	404-530B	404-424B
	2 mm	404-481B	404-525B	404-426B
	3 mm	404-482B	404-526B	404-428B
	4 mm	404-483B	404-527B	404-430B
	5 mm	404-484B	404-528B	404-432B
	6 mm	404-485B	404-529B	404-434B



404-526B

**Kerrison 40° Laminectomy/Lumbar Rongeur**

Black ceramic coating / 8" (20 cm) shaft / wide mouth 15 mm jaw opening / with & without ejection pin

	Bite Width	w/Ejector Pin	wo/Ejector Pin	wo/Ejector Pin Stainless Steel
40° Up-Angle	1 mm		404-337B	404-332
	2 mm	404-332B	404-338B	404-333
	3 mm	404-333B	404-339B	404-334
	4 mm	404-334B	404-340B	404-335
	5 mm	404-335B	404-341B	



**Kerrison 40° Rongeur**

Thin footplate-punch / 10 mm opening

	Bite Width	Length of Shaft		
		6" / 15 cm	7" / 18 cm	8" / 21 cm
40° Up-Angle	1 mm	404-490	404-539	404-400
	2 mm	404-491	404-540	404-402
	3 mm	404-492	404-541	404-404
	4 mm	404-493	404-542	404-406
	5 mm	404-494	404-543	404-408
	6 mm	404-495	404-544	404-410



**Kerrison 90° Rongeur**

Thin footplate punch / 10 mm opening / up

	Bite Width	Length of Shaft		
		6" / 15 cm	7" / 18 cm	8" / 21 cm
Up-Bite	1 mm	404-470	404-519	404-412
	2 mm	404-471	404-520	404-414
	3 mm	404-472	404-521	404-416
	4 mm	404-473	404-522	404-418
	5 mm	404-474	404-523	404-420
	6 mm	404-475	404-524	404-422



404-520

**Sontec Kerrison Rongeur 90° Down Bite Rongeur**

Thin footplate / 10mm opening down

	Bite Width	Length of Shaft		
		6" / 15 cm	7" / 18 cm	8" / 21 cm
90° Down Bite	1 mm	404-480	404-530	404-424
	2 mm	404-481	404-525	404-426
	3 mm	404-482	404-526	404-428
	4 mm	404-483	404-527	404-430
	5 mm	404-484	404-528	404-432
	6 mm	404-485	404-529	404-434



404-524

**Sontec Kerrison 40° Rongeur**

Thin footplate / 10 mm opening / down

	Bite Width	Length of Shaft	
		7" / 18 cm	8" / 21 cm
	1 mm	404-5301	404-553
	2 mm	404-5302	404-554
	3 mm	404-5303	404-556
	4 mm	404-5304	404-557
	5 mm	404-5305	404-558
	6 mm	404-5306	404-559



**Kerrison 40° Rongeur**

Black and gold ceramic coating / thin footplate-punch / up / 8" (20.3 cm)

	Bite Width	Metal
		Black/Gold
	1 mm	404-400BG
	2 mm	404-402BG
	3 mm	404-403BG
	4 mm	404-404BG
	5 mm	404-405BG



**Kerrison Bayonet 40° Rongeur**

Thin footplate / 10 mm opening / 8" (20 cm) shaft / with & without ejection pin

	Bite Width	With Pin	Without Pin
40° Up-Angle	1 mm	NA	404-401
	2 mm	404-4052	404-409
	3 mm	404-405	404-4033
	4 mm	404-4054	404-407
	5 mm	404-4055	404-403



**Kerrison Bayonet 40° Rongeur**

Black ceramic coating / thin footplate / 10 mm opening / 8" (20 cm) shaft / with & without ejection pin

	Bite Width	With Pin	Without Pin
40° Up-Angle	1 mm	NA	404-401B
	2 mm	404-4052B	404-409B
	3 mm	404-405B	404-4033B
	4 mm	404-4054B	404-407B
	5 mm	404-4055B	404-403B



**Kerrison Bayonet Foraminotomy Rongeur**

Curved up / 10" (25.4 cm) shaft







- 404-468 2 mm jaw with thin footplate
- 404-4683 3 mm jaw with thin footplate
- 404-4684 4 mm jaw with thin footplate

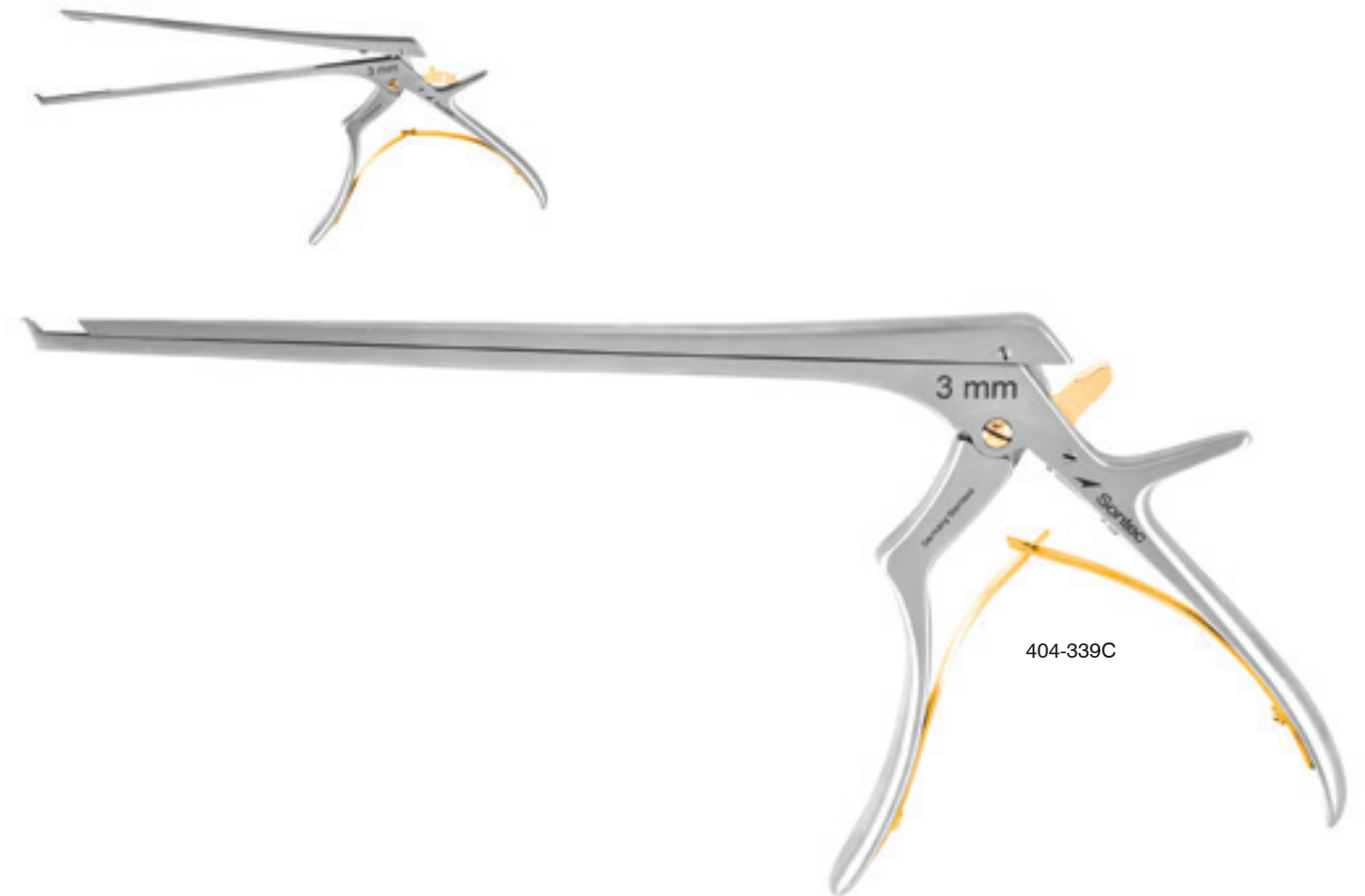


**Kerrison Convertible 40° Rongeur**

8" (20.3 cm) shaft / 10 mm opening / without  
ejection pin / ejector pin for 3 mm sizes and  
longer only

- \* Other tip sizes & lengths available upon request.
- \* Swing system for easy cleaning
- \* Sizes available 4-6 mm with pin

		Bite Width		
40° Up-Angle		1 mm	404-337C	without pin
		2 mm	404-338C	without pin
		3 mm	404-339C	with pin
		4 mm	404-340C	with pin
		5 mm	404-341C	with pin
		6 mm	404-342C	with pin



**Kerrison 40° Rongeur Titanium**

7" (18 cm)  
2603-541 3 mm



2603-541

**Sontec Kerrison 40° Rongeur**

10 mm opening / up / with ejection pin

	Bite Width	Length of Shaft	
		7" / 18 cm	8" / 21 cm
40° Up-Angle	2 mm	404-540EJ	404-402EJ
	3 mm	404-541EJ	404-404EJ
	4 mm	404-542EJ	404-406EJ
	5 mm	404-543EJ	404-408EJ



404-542EJ

ejector pin

**Kerrison Punch (Occular-plasti) 90° Rongeur**

**4" (10 cm) shaft**

16-2100	1.0 mm	wide up
16-2101	1.5 mm	wide up
16-2102	2.0 mm	wide up
16-2106	2.5 mm	wide up
16-2103	3.0 mm	wide up
16-2104	3.0 mm	wide down
16-2105	4.0 mm	wide down
16-2107	4.0 mm	wide up

**Black ceramic coating / 4" (10 cm) shaft**

16-2101B	1.5 mm	wide up
16-2102B	2 mm	wide up



16-2101



16-2103



16-2105



16-2107



16-2102



16-2104



16-2106



**Kerrison Punch (Occular-plasti) 40° Rongeur**

**4" (10 cm) shaft**

16-2096	1.0 mm wide
16-2097	1.5 mm wide
16-2098	2.0 mm wide
16-2099	3.0 mm wide

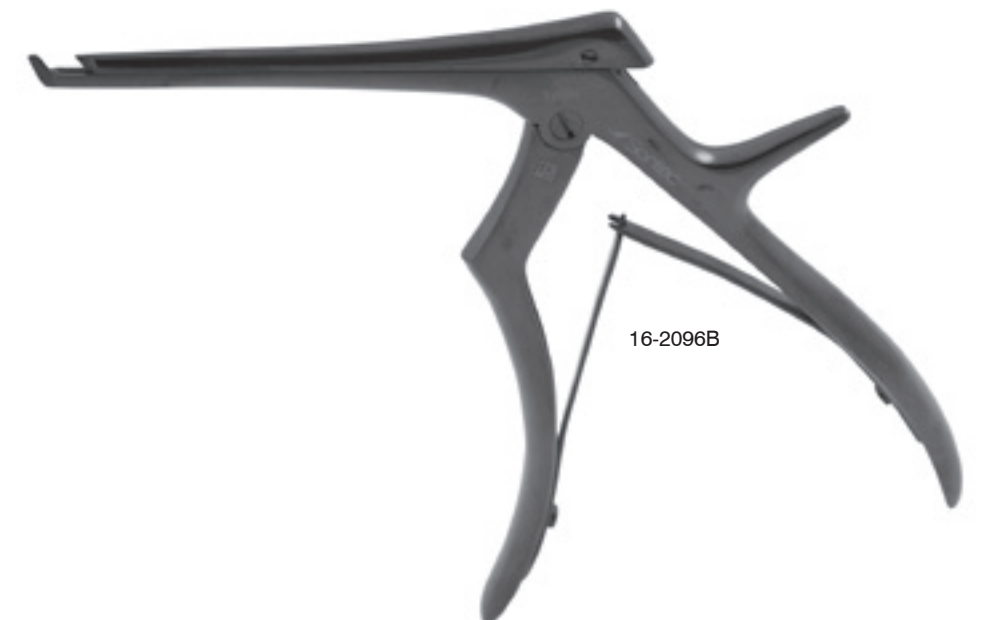
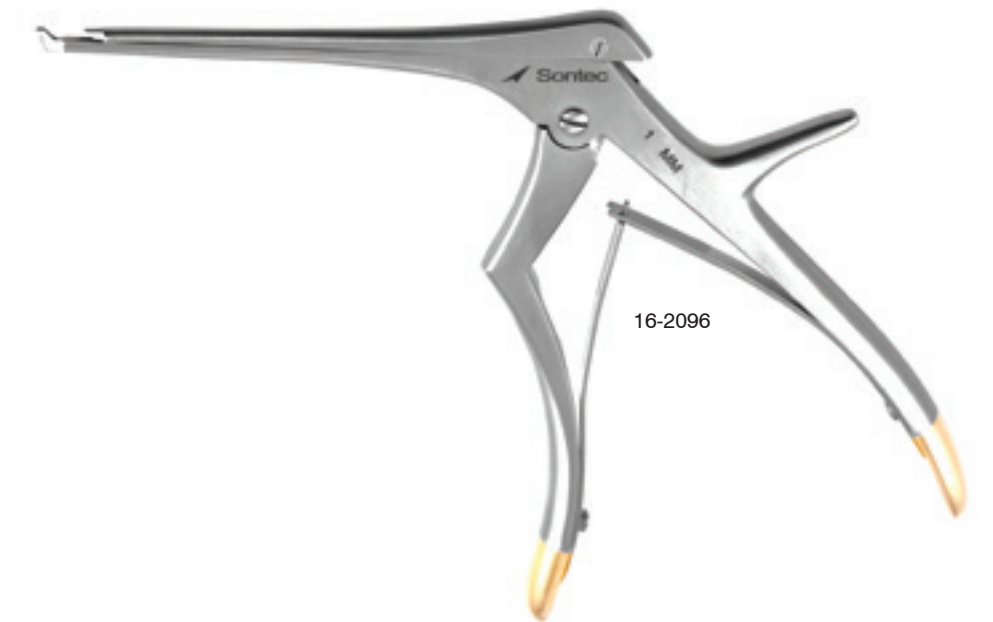
**Black ceramic coating / 4" (10 cm) shaft**

16-2096B	1.0 mm wide
16-2097B	1.5 mm wide
16-2098B	2.0 mm wide

		Bite Width	
40° Up-Angle		1 mm	16-2096
		1.5 mm	16-2097
		2 mm	16-2098
		3 mm	16-2099



16-2098



**Sontec Kerrison Rongeur**

40° / easy clean / 8" (20.3 cm)

- 404-400E 1 mm
- 404-402E 2 mm with ejector pin
- 404-404E 3 mm with ejector pin
- 404-406E 4 mm with ejector pin
- 404-408E 5 mm with ejector pin

	Bite Width	With Pin	Without Pin
40° Up-Angle 	1 mm	NA	404-400E
	2 mm	404-402E	NA
	3 mm	404-404E	NA
	4 mm	404-406E	NA
	5 mm	404-408E	NA



**Rongeurs Tray**

Anodized aluminum tray / 9" x 13" x 6"

18-3562

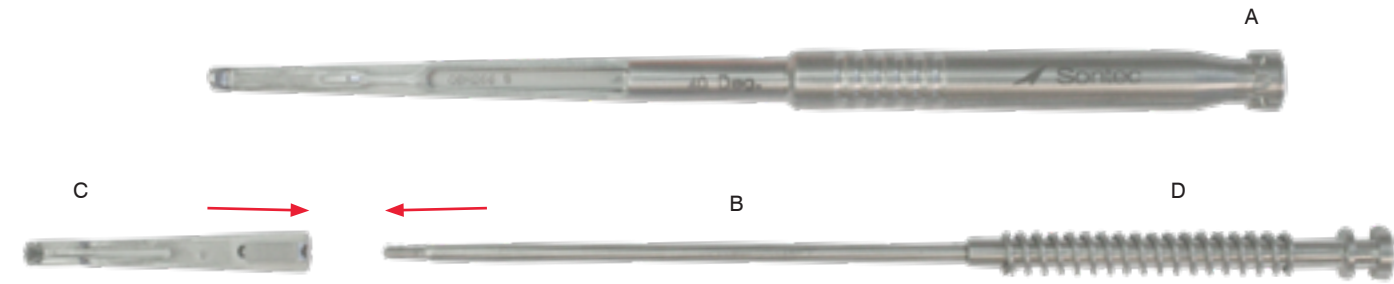


18-3562



## Care and Maintenance for the Universal Rotating 360° Kerrison Rongeur Shafts & Handles

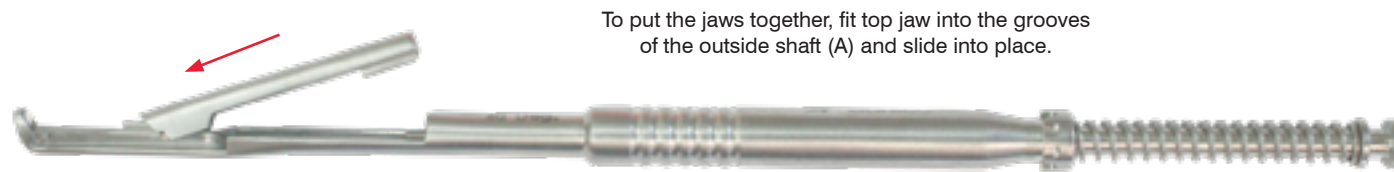
The Universal Rotating 360° Kerrison Rongeur shafts are comprised of four parts:  
 A: outside shaft with frontal jaw blade  
 B: Inner shaft with threading at the tip  
 C: Back side blade/ jaw with screw port at the end  
 D: spring



Slide inner shaft (B) through outer shaft (A).  
 Then screw jaw (C) into inner shaft (B).



Screw inner shaft (B) and jaw (C) completely together (only after Inner shaft (B) and outer shaft (A) are together.)



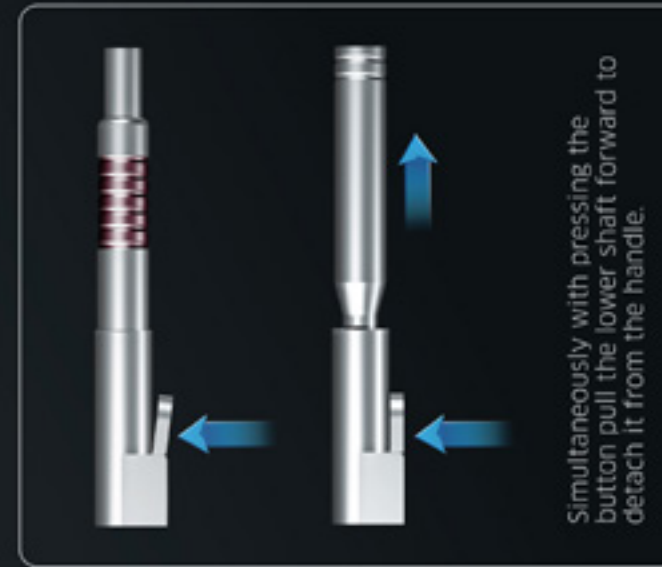
To put the jaws together, fit top jaw into the grooves of the outside shaft (A) and slide into place.

Use the grooves on the outside shaft (A) and the back side jaw/ blade (C) to fit the two parts into position.



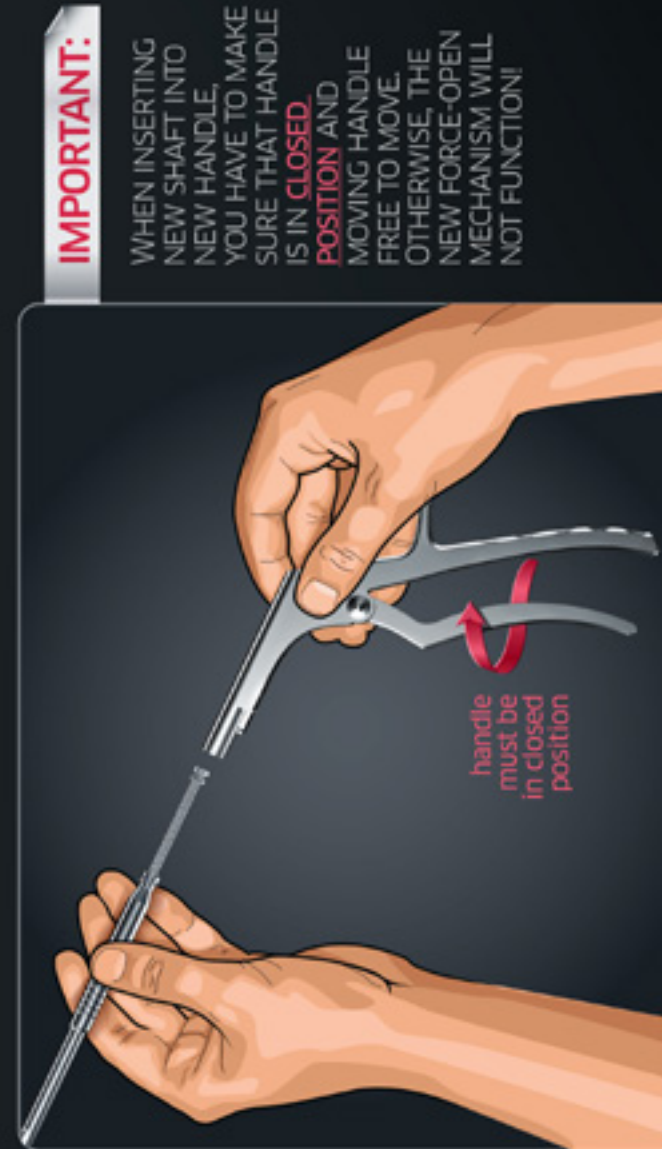
This is the point where the jaw/ blade (C) and inner shaft (B) are screwed together. You must make sure the two parts are fully screwed together for the Rongeur to work properly.

### RELEASING SHAFT



Simultaneously with pressing the button pull the lower shaft forward to detach it from the handle.

### INSERTING SHAFT



**IMPORTANT:**

WHEN INSERTING NEW SHAFT INTO NEW HANDLE, YOU HAVE TO MAKE SURE THAT HANDLE IS IN **CLOSED POSITION** AND MOVING HANDLE FREE TO MOVE. OTHERWISE, THE NEW FORCE-OPEN MECHANISM WILL NOT FUNCTION!

handle must be in closed position

low and the positive results are almost immediately visible.

For detailed information regarding training and available additional instruction see the contacts on the back cover of this brochure.

This new kind of Kerrison's approach, besides significant financial savings simplifies the entire working process. Your productivity will not be affected by a very short training period. The costs of migration to this new product are very

Click Kerrison punches are suitable for all kinds of shafts: Straight, Bayonet, Curved up and down. You do not need to keep a large stock of Kerrisons, only the shafts are necessary.



 Sontec Instruments®

Pistol Grip RONGEURS

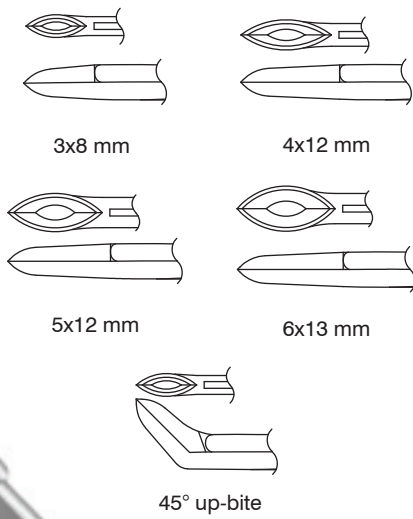
**Weil-Blakesley Rongeur**

**Pointed elliptical fenestrated jaw / 4 1/2" (11.5 cm) shaft**

- 404-767 3 x 8 mm jaw
- 404-768 4 x 12 mm jaw
- 404-769 5 x 12.5 mm jaw
- 404-770 6 x 13 mm jaw

**Pointed elliptical fenestrated jaw / 45° / 4 1/2" (11.5 cm) shaft**

- 404-766 3 x 8 mm jaw
- 404-771 4 x 12 mm jaw
- 404-772 5 x 12.5 mm jaw



404-767

**Weil Nasal Rongeur**

**5 mm bite / 4 1/4" (10.5 cm) shaft**

- 468-548 straight
- 468-550 45° angled up



468-548

468-550

468-550

**Wilde Ethmoid Rongeur**

**Rounded elliptical fenestrated jaw / 4 1/2" (11.5 cm) shaft**

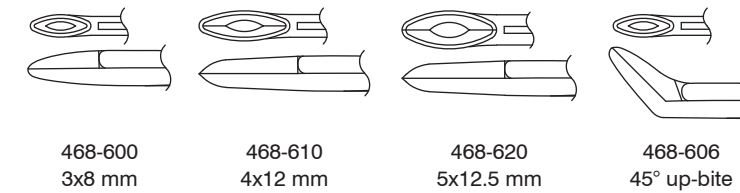
- 468-600 3x8 mm jaw
- 468-610 4x12 mm jaw
- 468-620 5x12.5 mm jaw

**Rounded elliptical fenestrated jaw / 45° up-bite / 4 1/2" (11.5 cm) shaft**

- 468-606 3x8 mm jaw
- 468-616 4x12 mm jaw
- 468-622 5x12.5 mm jaw

**Rounded elliptical fenestrated jaw / 3x8.0 mm jaw / with suction / 4 1/2" (11.5 cm) shaft**

- 468-636 straight
- 468-638P 45° up-bite



468-600  
3x8 mm

468-610  
4x12 mm

468-620  
5x12.5 mm

468-606  
45° up-bite



468-600

468-636

**Wilde Ethmoid Arthroscopic Rongeur**

Fenestrated jaw / 7" (17.8 cm) shaft / 2.5 mm

- 404-774 straight
- 404-775 up-bite
- 404-776 down-bite



**Ethmoid Pediatric Rongeur**

2.5 mm micro jaw / 3 3/4" (9.5 cm) shaft

- 468-580 straight
- 468-585 45° up-angle
- 468-590 90° up-angle



468-590



468-585

**Blakesley-Ethmoid Rongeur**

3.5 mm jaw / 4 1/4" (11 cm) shaft

- 468-680 45° up-angle
- 468-682 90° up-angle



468-682



468-680

**Blakesley Ethmoid Rongeur**

4.5 mm x 11 mm fenestrated jaw / 4 1/4" (10.8 cm)

- 468-684 40° angle
- 468-686 90° up-angle



468-686

**Williams-Sontec Rongeur**

For arthroscopy & discectomy / very sharp / 2 mm x 5 mm jaw / 1 x 2 teeth / 5 1/2" (14 cm) shaft

404-824



actual size



404-824

**Mcllwraith Basket Cutter Rongeur**

5" (12.5 cm)

1404-857 2.5 mm x 8 mm jaw

1404-858 3.5 mm x 8 mm jaw



actual size



1404-857

**Mcllwraith Arthroscopic Scissors Rongeur**

Scissor action / serrated / 1 mm x 14 mm cup / 5" (12.5 cm) shaft

1404-855



1404-855

**Mcllwraith-Peapod Rongeur**

Longer shaft available by special order



404-783

**Straight / 5 1/2" (14 cm) shaft**

404-782 2.2 mm x 6 mm jaw cup

**Up-angled / 5 1/2" (14 cm) shaft**

404-783 2.2 mm x 6 mm jaw cup small

404-784 3 mm x 6 mm jaw cup medium

404-785 4 mm x 6 mm jaw cup large

**Peapod-McIlwraith Rongeur**



**Straight / 3.2 mm x 6 mm jaw cup / 5 1/2" (14 cm)**

1404-866

**Bailey Rongeur**



**3 x 6 mm, 4 1/2" (11.4 cm)**

- 440-308 straight
- 440-309 25° down
- 440-310 70° down
- 440-311 90° down
- 440-312 45° left
- 440-313 45° right



440-309



440-310



440-311



440-312



440-313

**Peapod Extended Shaft Rongeur**

**Up-angled / 6 1/4" (16 cm) shaft**

- 404-779 2.2 mm x 6 mm jaw cup small
- 404-780 3 mm x 6 mm jaw cup medium
- 404-781 4 mm x 6 mm jaw cup large



**Selverstone Peapod Rongeur**

**Straight / 2 mm x 5 mm jaw / 6" (15.5 cm) shaft**

404-789



**Takahashi Rongeur**

**2.5 mm x 10 mm jaw cup / straight**

- 404-786 3 1/2" (9 cm) shaft
- 404-787 4 1/2" (11.5 cm) shaft
- 404-788 5 1/2" (14 cm) shaft

**3 mm x 10 mm jaw cup / 4 1/2" (11.5 cm) shaft**

- 404-788U up-angled
- 404-7871 straight

**3 mm x 8 mm oval jaw cup / straight**

- 404-7885 5 1/2" (14 cm) shaft

**3.5 mm x 10 mm jaw cup / straight**

- 404-7875 4" (10 cm) shaft



404-788U



404-7871



404-7875

**McIlwraith Cup Rongeur**

**Round cup / straight / 7" (18 cm) shaft**

- 1404-845A 2 mm cup
- 1404-845B 4 mm cup
- 1404-845D 6 mm cup

**Round cup / up-angled / 7" (18 cm) shaft**

- 1404-846A 2 mm cup
- 1404-846B 4 mm cup
- 1404-846D 6 mm cup



1404-846D



1404-845A



1404-845D

**Sheen Fragment Retriever Forceps**

**Low profile / 7" (18 cm)**

- 469-035




469-035

**Cushing Pituitary Rongeur**

**2 mm x 10 mm bite**

404-712	straight	5" (13 cm) shaft
404-714	up-angled	5" (13 cm) shaft
404-716	down-angled	5" (13 cm) shaft
404-719	straight	7" (18 cm) shaft
404-721	up-angled	7" (18 cm) shaft
404-723	down-angled	7" (18 cm) shaft
404-711	straight	12" (30.5 cm) shaft
404-711U	up	12" (30.5 cm) shaft
404-711D	down	12" (30.5 cm) shaft

bite size  
  
 2 x 10 mm



404-719



404-721



404-723

**Love-Gruenwald Pituitary Rongeur**

**3 mm x 10 mm bite**

404-727	straight	5" (13 cm) shaft
404-729	up-angled	5" (13 cm) shaft
404-731	down-angled	5" (13 cm) shaft
404-734	straight	7" (18 cm) shaft
404-736	up-angled	7" (18 cm) shaft
404-737	down-angled	7" (18 cm) shaft
404-738	straight	12" (30.5 cm) shaft
404-738U	up	12" (30.5 cm) shaft
404-738D	down	12" (30.5 cm) shaft

bite size  
  
 3 x 10 mm



404-727



404-729



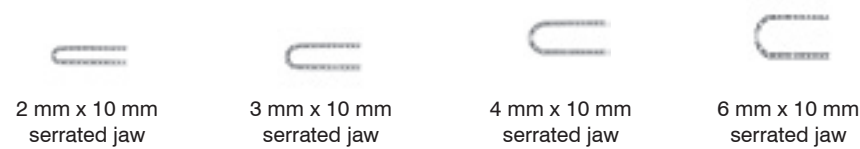
404-734

**Schlesinger (Cloward) Rongeur**

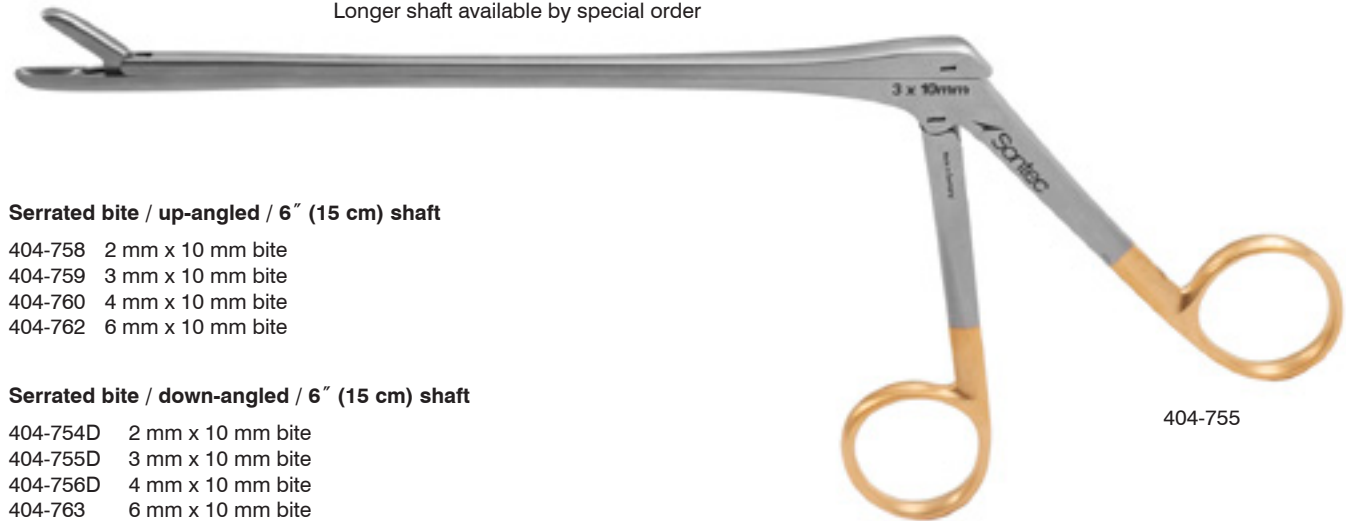
**Serrated bite / straight / 6" (15 cm) shaft**

- 404-754 2 mm x 10 mm bite
- 404-755 3 mm x 10 mm bite
- 404-755L 3 mm x 10 mm bite
- 404-756 4 mm x 10 mm bite
- 404-761 6 mm x 10 mm bite

7" shaft



Longer shaft available by special order



**Serrated bite / up-angled / 6" (15 cm) shaft**

- 404-758 2 mm x 10 mm bite
- 404-759 3 mm x 10 mm bite
- 404-760 4 mm x 10 mm bite
- 404-762 6 mm x 10 mm bite

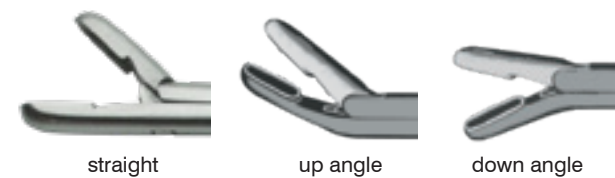
**Serrated bite / down-angled / 6" (15 cm) shaft**

- 404-754D 2 mm x 10 mm bite
- 404-755D 3 mm x 10 mm bite
- 404-756D 4 mm x 10 mm bite
- 404-763 6 mm x 10 mm bite

**Spurling Pituitary Rongeur**

**4 mm x 10 mm bite**

- 404-740 straight 5" (12.5 cm) shaft
- 404-742 up-angled 5" (12.5 cm) shaft
- 404-744 down-angled 5" (12.5 cm) shaft
- 404-747 straight 7" (18 cm) shaft
- 404-749 up-angled 7" (18 cm) shaft
- 404-751 down-angled 7" (18 cm) shaft
- 404-739 straight 12" (30.5 cm) shaft
- 404-739U up angle 12" (30.5 cm) shaft
- 404-739D down angle 12" (30.5 cm) shaft



**NEW EASY CLEAN**

**Cushing Pituitary Rongeur**

**Easy clean / straight / 2 mm x 10 mm jaw / 7" (17.8 cm)**

404-719E



**Love Gruenwald Pituitary Rongeur**

**Easy clean / straight / 3 mm x 10 mm jaw / 7" (17.8 cm)**

404-734E



**Spurling Pituitary Rongeur**

**Easy clean / straight / 4 mm x 10 mm jaw / 7" (17.8 cm)**

404-747E



**Caspar Grasping Rongeur**

**Straight / 5 1/2" (14 cm) shaft**

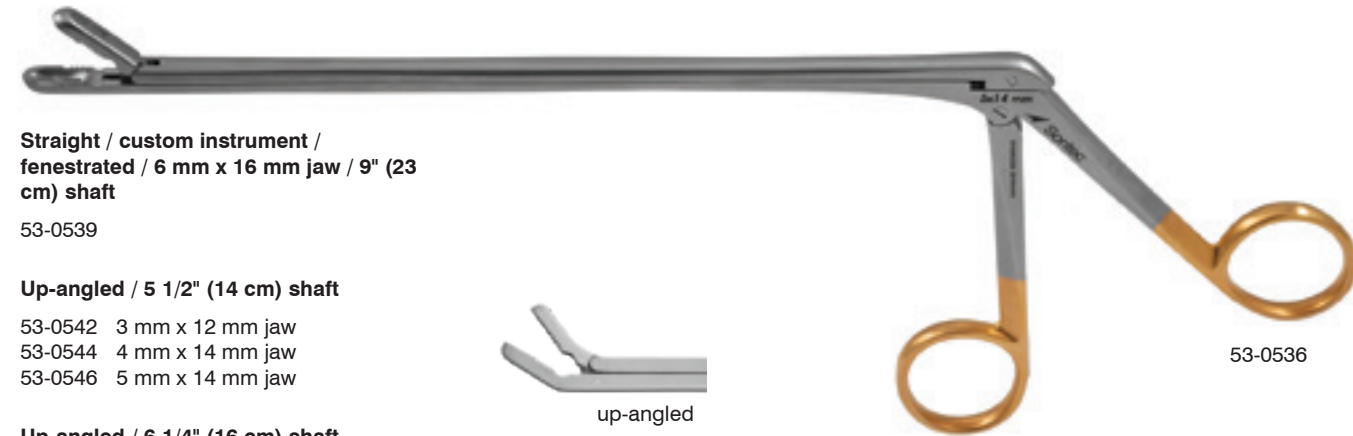
- 53-0510 2 mm x 12 mm jaw
- 53-0512 3 mm x 12 mm jaw
- 53-0514 4 mm x 14 mm jaw
- 53-0516 5 mm x 14 mm jaw
- 53-0518 6 mm x 16 mm jaw

**Straight / 6 1/4" (16 cm) shaft**

- 53-0520 2 mm x 12 mm jaw
- 53-0522 3 mm x 12 mm jaw
- 53-0524 4 mm x 14 mm jaw
- 53-0526 5 mm x 14 mm jaw
- 53-0528 6 mm x 16 mm jaw

**Straight / 7 1/4" (18.5 cm)**

- 53-0530 2 mm x 12 mm jaw
- 53-0532 3 mm x 12 mm jaw
- 53-0534 4 mm x 14 mm jaw
- 53-0536 5 mm x 14 mm jaw
- 53-0538 6 mm x 16 mm jaw



**Straight / custom instrument / fenestrated / 6 mm x 16 mm jaw / 9" (23 cm) shaft**

53-0539

**Up-angled / 5 1/2" (14 cm) shaft**

- 53-0542 3 mm x 12 mm jaw
- 53-0544 4 mm x 14 mm jaw
- 53-0546 5 mm x 14 mm jaw



up-angled  
actual size

**Up-angled / 6 1/4" (16 cm) shaft**

- 53-0552 3 mm x 12 mm jaw
- 53-0554 4 mm x 14 mm jaw
- 53-0556 5 mm x 14 mm jaw

**Up-angled / 7 1/4" (18.5 cm) shaft**

- 53-0560 2 mm x 12 mm jaw
- 53-0562 3 mm x 12 mm jaw
- 53-0564 4 mm x 14 mm jaw
- 53-0566 5 mm x 14 mm jaw

**Down-angled / 5 1/2" (14 cm) shaft**

- 53-0572 3 mm x 12 mm jaw
- 53-0574 4 mm x 14 mm jaw








down-angled  
actual size

**Down-angled / 6 1/4" (16 cm) shaft**

- 53-0582 3 mm x 12 mm jaw
- 53-0584 4 mm x 14 mm jaw

**Down-angled / 7 1/4" (18.5 cm) shaft**

- 53-0590 2 mm x 12 mm jaw
- 53-0592 3 mm x 12 mm jaw
- 53-0594 4 mm x 14 mm jaw

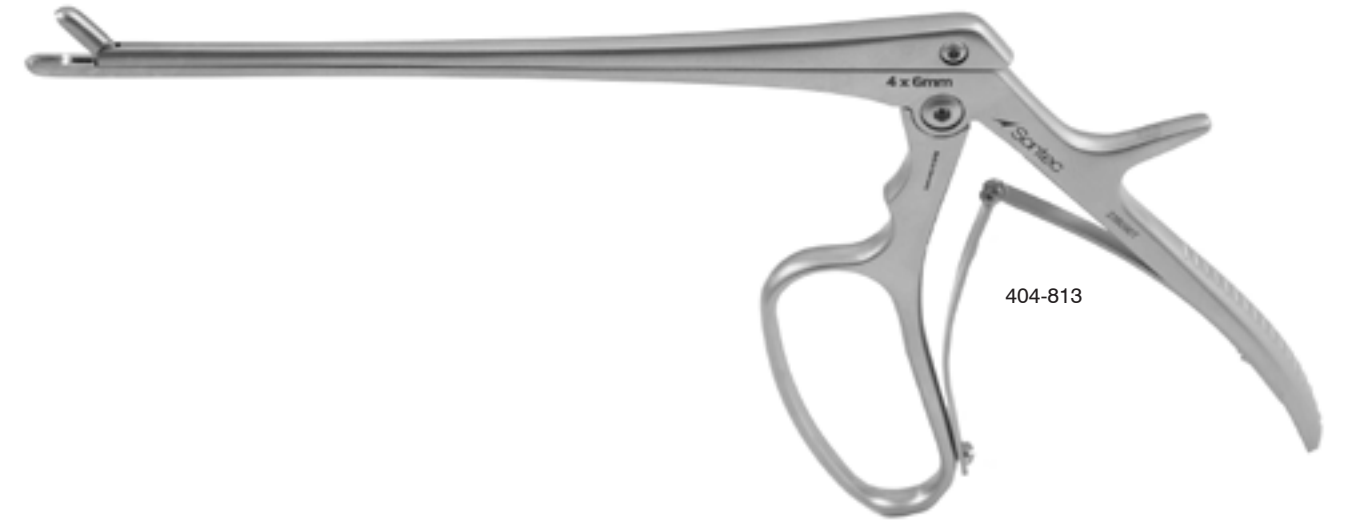
-  2 mm x 12 mm
-  3 mm x 12 mm
-  4 mm x 14 mm
-  5 mm x 14 mm
-  6 mm x 16 mm

53-0536

**Ferris-Smith Arthroscopic Rongeur**

**4 mm x 6 mm / 7" (18 cm) shaft**

- 404-813 round jaw
- 404-814 square jaw



404-813



404-814

**Ferris-Smith Arthroscopic Rongeur**

**Low profile / straight / 7" (18 cm) shaft**

404-790LP	2 mm x 10 mm bite	
404-791LP	3 mm x 10 mm bite	
404-792LP	4 mm x 10 mm bite	
404-793LP	4 mm x 8 mm bite	
404-796LP	5 mm x 10 mm bite	
404-794LP	6 mm x 10 mm bite	
404-795LP	6 mm x 12 mm bite	
404-795SLP	6 mm x 12 mm bite	serrated

**Low profile / up-angled / 7" (18 cm) shaft**

404-800LP	2 mm x 10 mm bite	
404-801LP	3 mm x 10 mm bite	
404-802LP	4 mm x 10 mm bite	
404-803LP	6 mm x 10 mm bite	

**Low profile / down-angled / 7" (18 cm) shaft**

404-810LP	2 mm x 10 mm bite	
404-811LP	3 mm x 10 mm bite	
404-812LP	4 mm x 10 mm bite	



404-792LP



404-800LP

**Ferris-Smith Arthroscopic Rongeur**

**Straight / 7" (18 cm) shaft**

404-790	2 mm x 10 mm bite	
404-791	3 mm x 10 mm bite	
404-792	4 mm x 10 mm bite	
404-792B	4 mm x 10 mm bite	Ceramitec
404-793	4 mm x 8 mm bite	
404-792S	4 mm x 10 mm bite	serrated
404-796	5 mm x 10 mm bite	
404-794	6 mm x 10 mm bite	
404-795	6 mm x 12 mm bite	

**Straight / 8" (20.5 cm) shaft / special order**

404-825	2 mm x 10 mm bite	
404-826	3 mm x 10 mm bite	
404-827	4 mm x 10 mm bite	
404-828	5 mm x 10 mm bite	
404-829	6 mm x 10 mm bite	

**Straight / 9" (23 cm) shaft**

404-7929	4 mm x 10 mm bite	
404-7929LP	4 mm x 10 mm bite	low profile
404-7959	6 mm x 12 mm bite	

**Up-angled / 7" (18 cm) shaft**

404-800	2 mm x 10 mm bite	
404-801	3 mm x 10 mm bite	
404-802	4 mm x 10 mm bite	
404-802S	4 mm x 10 mm bite	serrated
404-803	6 mm x 10 mm bite	

**Up-angled / 8" (20.5 cm) shaft / special order**

404-830	2 mm x 10 mm bite	
404-831	3 mm x 10 mm bite	
404-832	4 mm x 10 mm bite	
404-833	5 mm x 10 mm bite	
404-834	6 mm x 10 mm bite	

\*special order

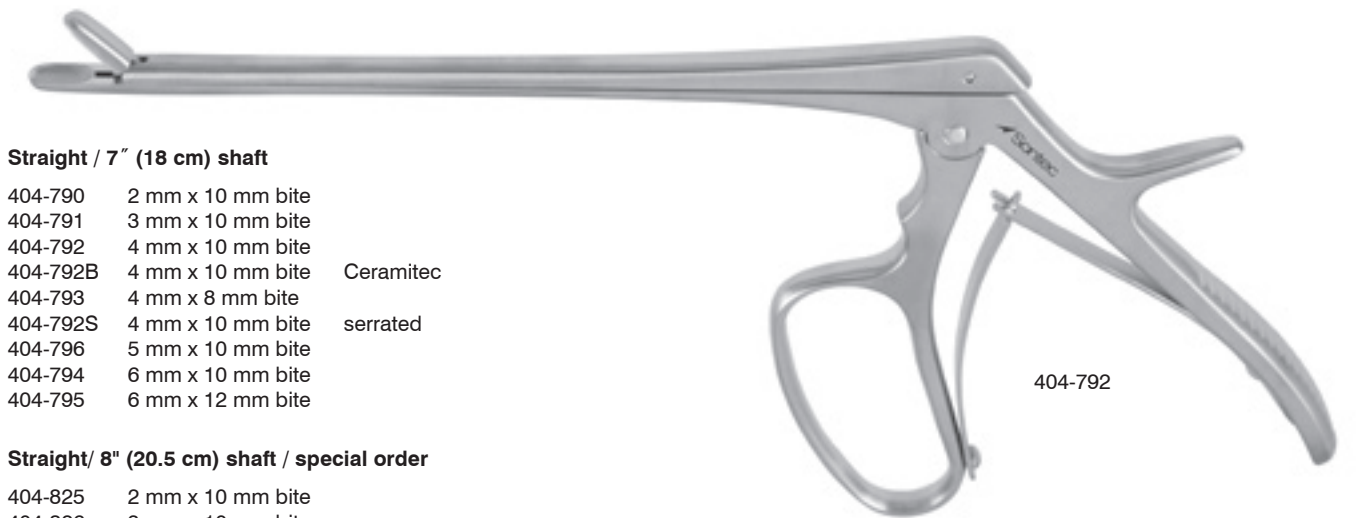
**Down-angled / 7" (18 cm) shaft**

404-810	2 mm x 10 mm bite	
404-811	3 mm x 10 mm bite	
404-812	4 mm x 10 mm bite	

**Down-angled / 8" (20.5 cm) shaft / special order**

404-835	2 mm x 10 mm bite	
404-836	3 mm x 10 mm bite	
404-837	4 mm x 10 mm bite	
404-838	5 mm x 10 mm bite	
404-839	6 mm x 10 mm bite	

\*special order



404-792



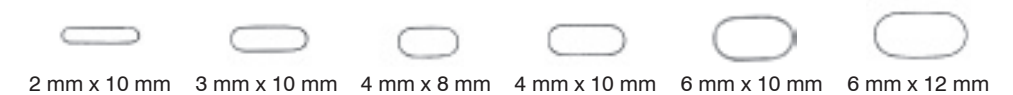
404-792B



404-792

404-802S

404-792S



2 mm x 10 mm

3 mm x 10 mm

4 mm x 8 mm

4 mm x 10 mm

6 mm x 10 mm

6 mm x 12 mm

**Ferris-Smith Rongeur**

With Kerrison handle / straight / 4 mm x 8 mm / 7" (18 cm) shaft

404-793K



**Ferris-Smith Wilde Rongeur**

Straight / powerful, low profile, tapered Wilde jaw design / 5 mm x 10 mm bite / 7" (18 cm) shaft

404-777



**Ferris-Smith Arthroscopic Ultra-Low Profile Rongeur with Enhanced Jaw Power**

5 mm x 10 mm / straight jaw

404-797 with fenestrated jaw

404-798 without fenestrated jaw

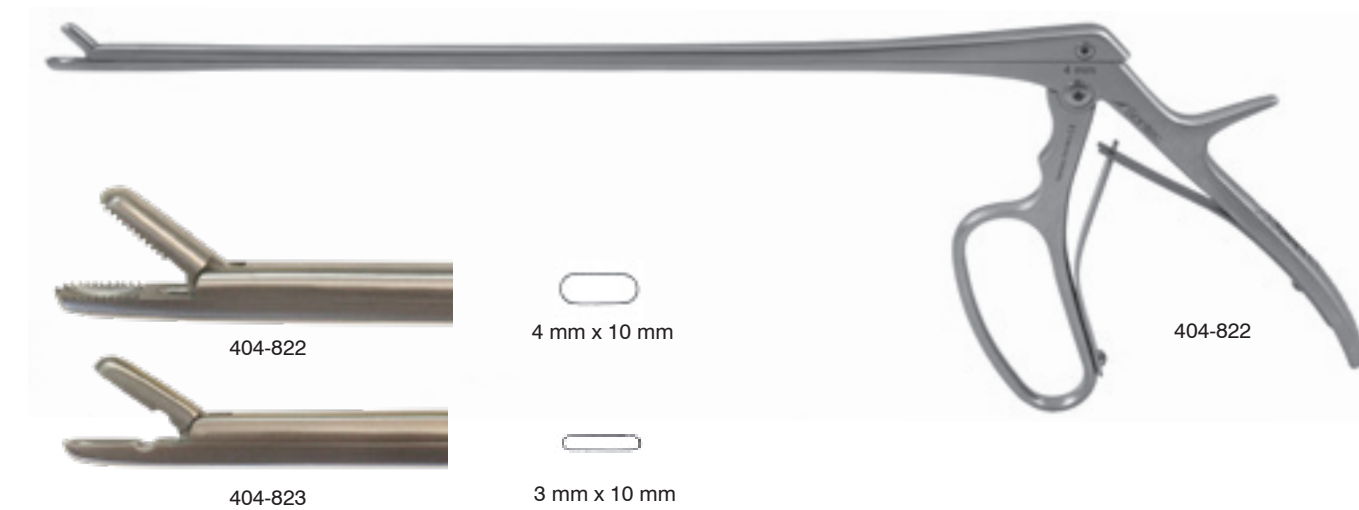


**Ferris-Smith Spinal Extended Shaft Rongeur**

Extra long shaft / straight / 12" (30.5 cm) shaft

404-822 4mm x 10mm bite serrated

404-823 3mm x 10mm bite



**Ferris-Smith Arthroscopic Rongeur Bayonet**

Straight / 4 x 10 mm / 7" working length / 10" overall length

404-469



**Hoen Grasping Forceps**

1 x 2 teeth / 5 1/2" (14 cm) shaft

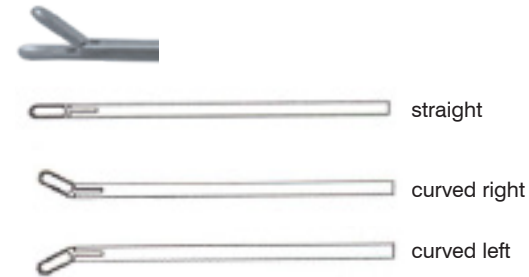
1404-862



**Decker Micro Rongeur**

2 mm x 6 mm bite

- 469-053 straight 3 1/2" (9 cm) shaft
- 469-056 straight 6" (15 cm) shaft
- 469-057 cvd right 6" (15 cm) shaft
- 469-058 cvd left 6" (15 cm) shaft
- 469-055 angled up 6" (15 cm) shaft



**McIlwraith Arthroscopic Grasping Rongeur**

Heavy duty / 1 x 2 teeth / 6 1/2" (16.5 cm) shaft

- 1404-860 4 mm x 10 mm jaw
- 1404-865 3.4 mm x 10 mm standard
- 1404-861 3 mm x 10 mm jaw delicate



1404-860



1404-861

**Micro Neuro Biopsy Rongeur**

2.6 mm tip / 10 1/4" WL

1271-089



1271-089

**McIlwraith Arthroscopic Grasping Rongeur**

Straight / 4 mm round cup / 4" (10.2 cm) shaft

1404-842



1404-842



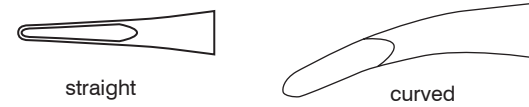
 Sontec Instruments®

Orthopedic DOUBLE ACTION RONGEURS

**Ruskin Rongeur**

**Double action / 6" (15.5 cm)**

315-585	2 mm jaw	str
315-587	2 mm jaw	cvd
315-590	3 mm jaw	str
315-588	3 mm jaw	slight curve
315-589	3 mm jaw	full curve
315-586	4 mm jaw	str
315-593	4 mm jaw	cvd

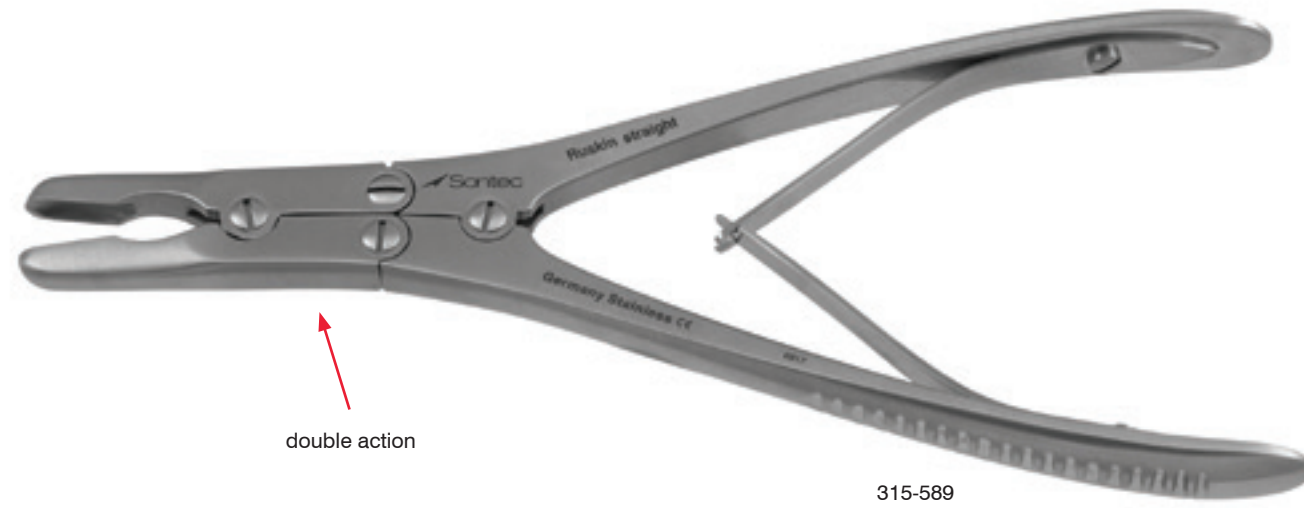
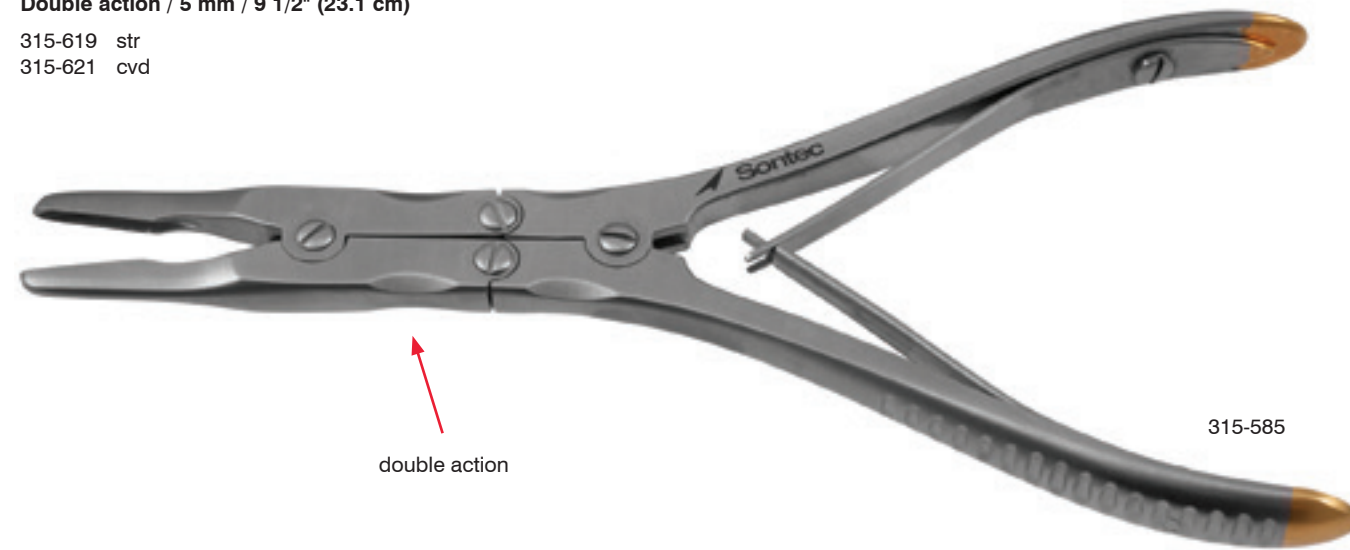


**Double action / 7 1/4" (18.5 cm)**

315-610	5 mm jaw	str
315-612	5 mm jaw	cvd
315-614	6 mm jaw	str
315-616	6 mm jaw	cvd

**Double action / 5 mm / 9 1/2" (23.1 cm)**

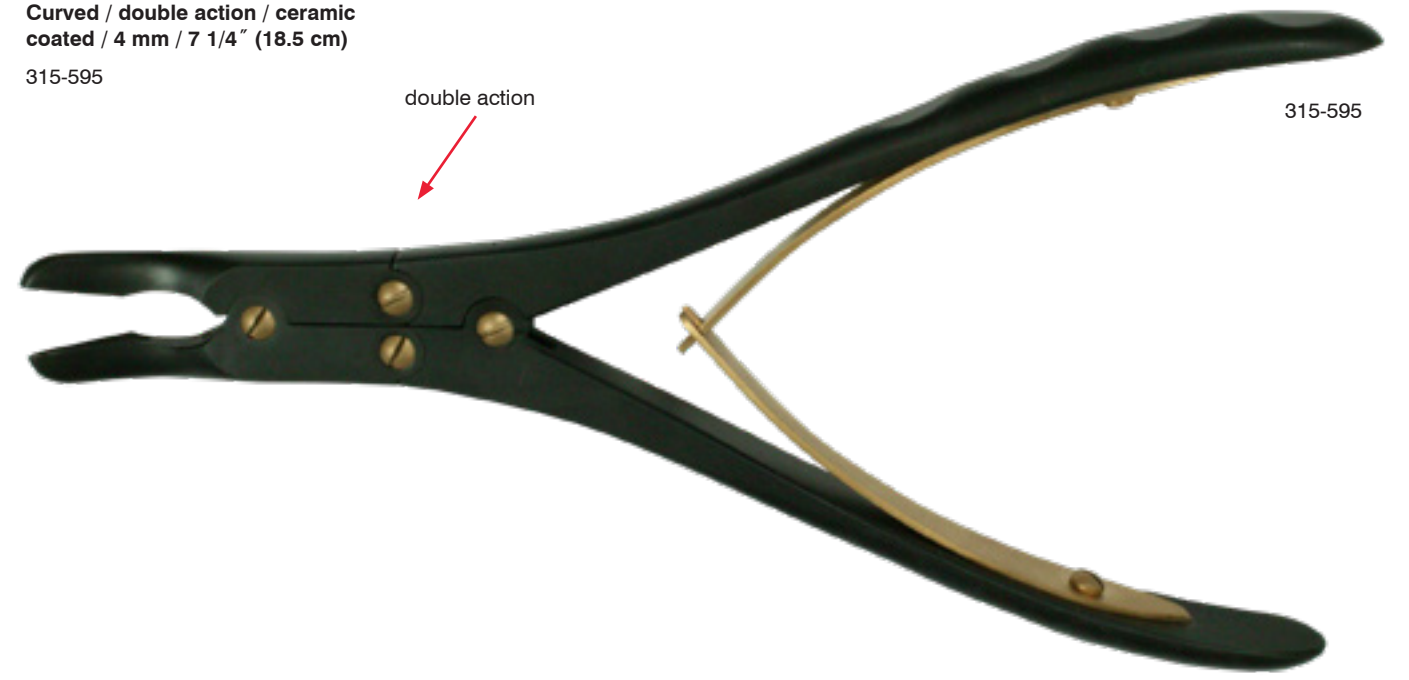
315-619	str
315-621	cvd



**Black Ruskin Rongeur**

**Curved / double action / ceramic coated / 4 mm / 7 1/4" (18.5 cm)**

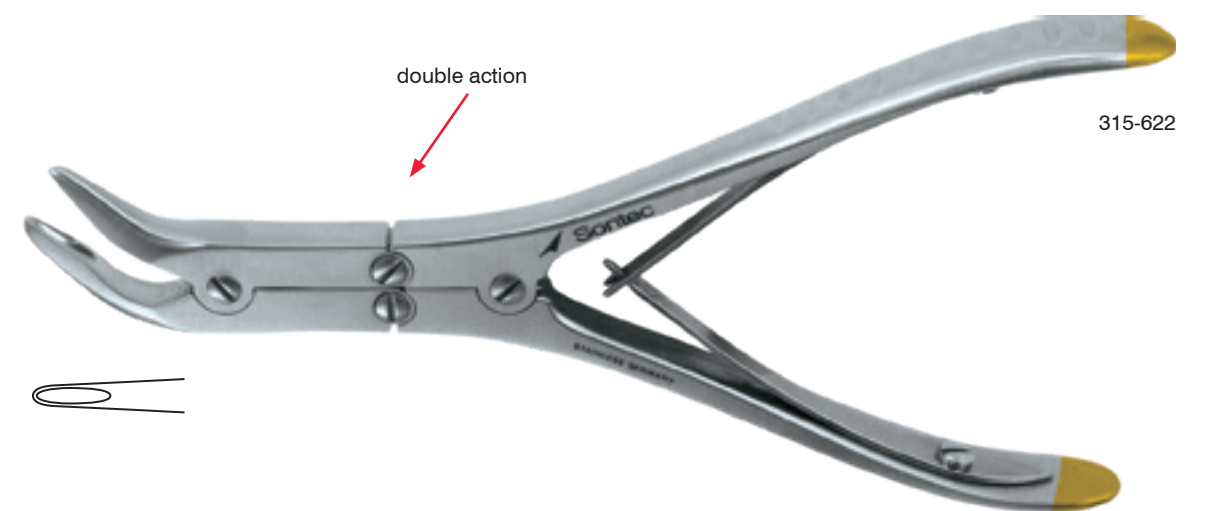
315-595



**Kleinert-Kutz Duckbill Synovectomy Rongeur**

**Double action / 2 mm x 10 mm jaw / curved to side / 6" (15.5 cm)**

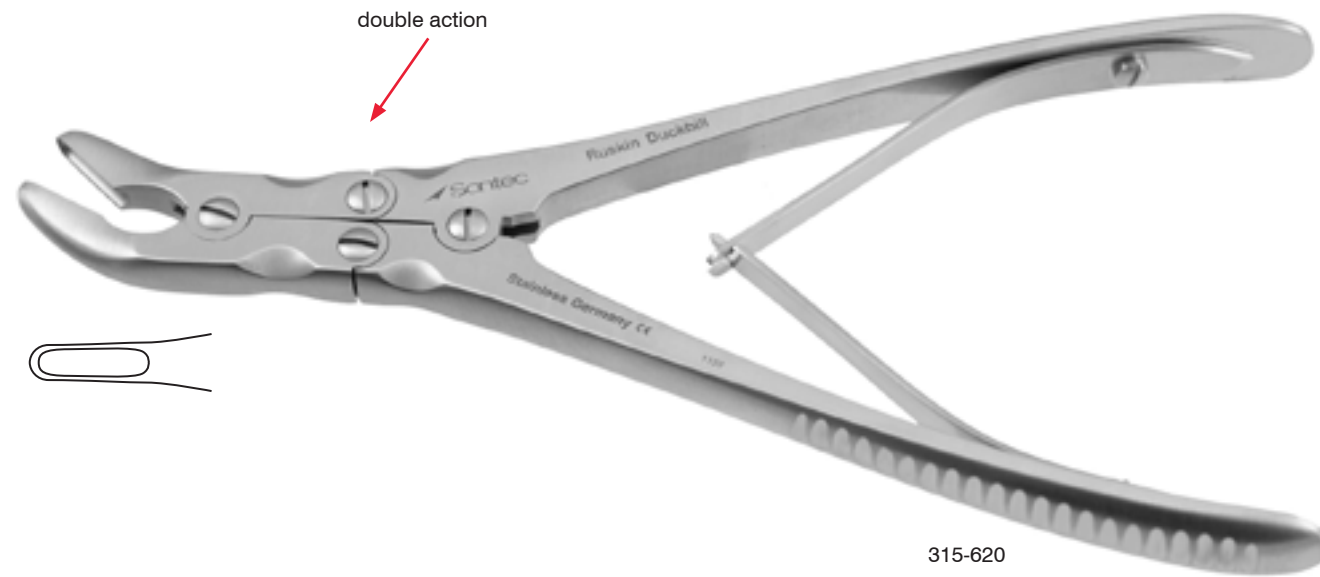
315-622



**Ruskin Duckbill Rongeur**

Double action / 5 mm jaw / curved to side / 7 1/4" (18.5 cm)

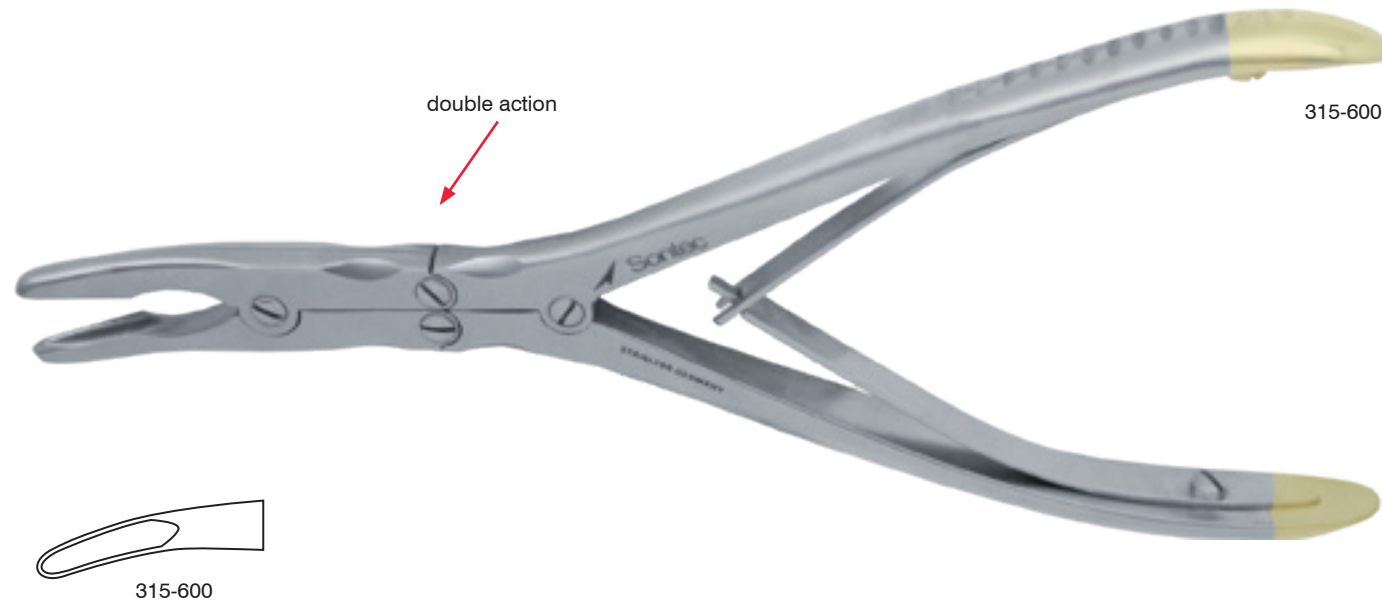
315-620



**Zaufel-Jansen Rongeur**

Double-action / 4 mm jaw / 7" (18 cm)

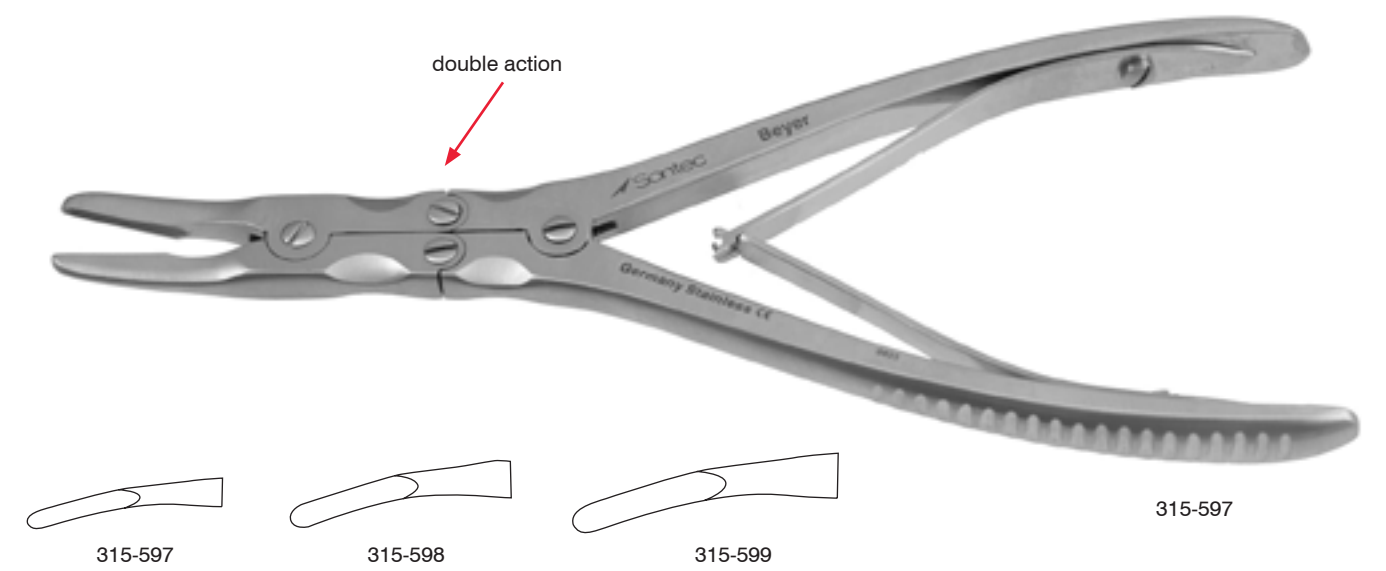
315-600



**Beyer Rongeur**

Double-action / curved / 7" (18 cm)

- 315-597 2.3 mm jaw
- 315-598 3.0 mm jaw
- 315-599 4.0 mm jaw



**Smith-Peterson Sontec Streamlined Laminectomy Rongeur**

Unique delicate shape / modified model / double action / curved / 3 mm jaw / 7 1/2" (19 cm)

315-691



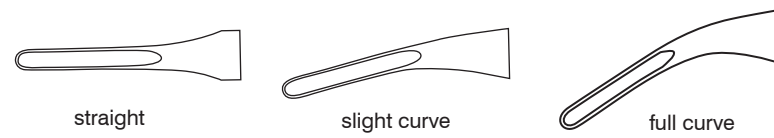
**Smith-Peterson Laminectomy Rongeur**

**Stout model / 3 mm jaw / 7 1/2" (19 cm)**

- 315-685 straight
- 315-689 slight curve
- 315-687 full curve

**Standard / 3 mm jaw / 9 1/2" (24 cm)**

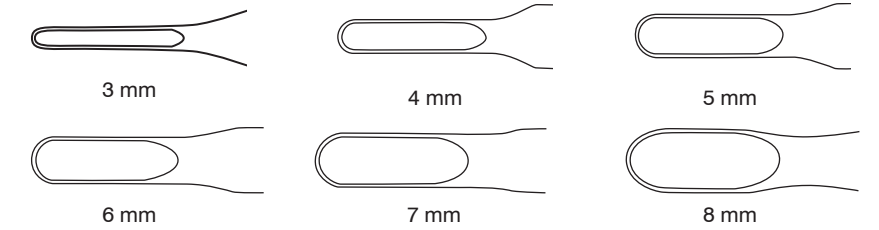
- 315-686 straight
- 315-688 slight curve
- 315-690 full curve



**Leksell Duckbill Rongeur**

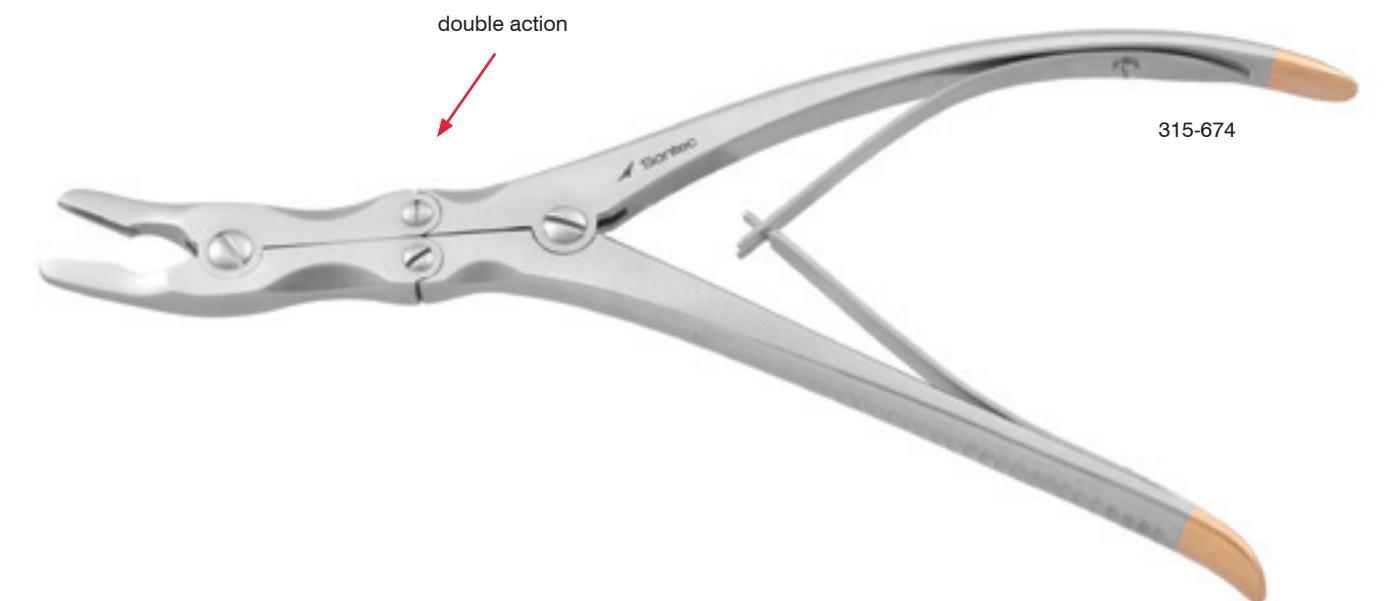
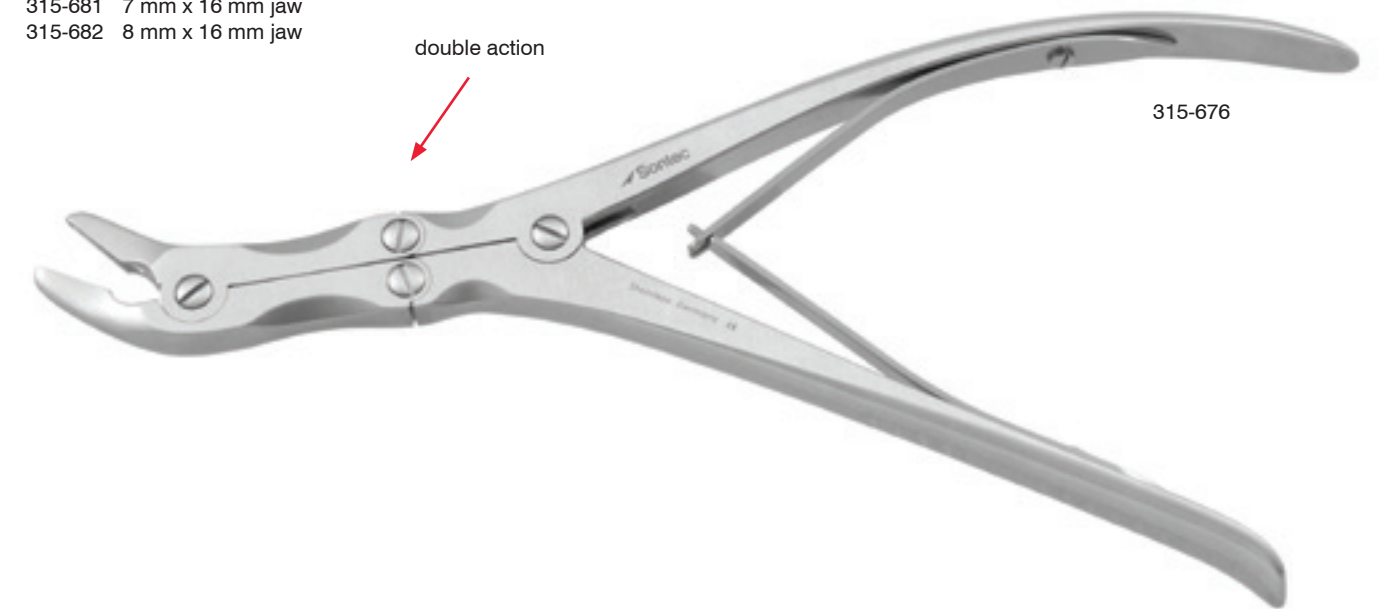
**Double action / curved to side / 9" (23 cm)**

- 315-674 3 mm x 16 mm jaw
- 315-671 4 mm x 16 mm jaw
- 315-673 5 mm x 16 mm jaw
- 315-677 6 mm x 16 mm jaw
- 315-679 7 mm x 16 mm jaw
- 315-680 8 mm x 16 mm jaw



**Double action / curved to side / full curve / 9" (23 cm)**

- 315-676 3 mm x 16 mm jaw
- 315-672 4 mm x 16 mm jaw
- 315-675 5 mm x 13 mm jaw
- 315-678 6 mm x 16 mm jaw
- 315-681 7 mm x 16 mm jaw
- 315-682 8 mm x 16 mm jaw



**Marquardt Neuro Rongeur**

Unique delicate shape / curved / double action / 2 mm jaw / 7 3/4" (19.7 cm)

315-697



315-697

**Leksell Bayonet Rongeur**

4 mm jaw / 8 3/4" (22 cm)

315-669 left  
315-670 right

4 mm jaw / ceramic coated / 8 3/4" (22 cm)

315-669B left  
315-670B right

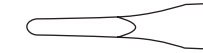


315-670B

**Echlin Duckbill Rongeur**

Double action / curved to side / 9" (23 cm)

315-657 2 x 12mm bite  
315-659 3 x 12mm bite  
315-661 4 x 12mm bite



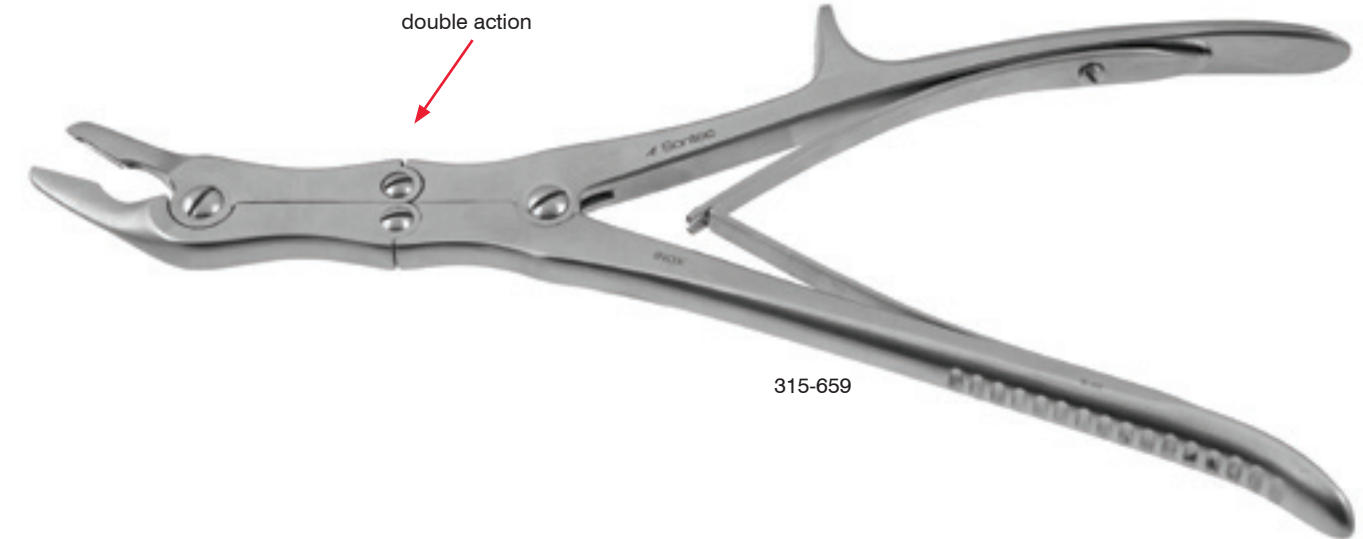
315-657



315-659



315-661



315-659



315-661

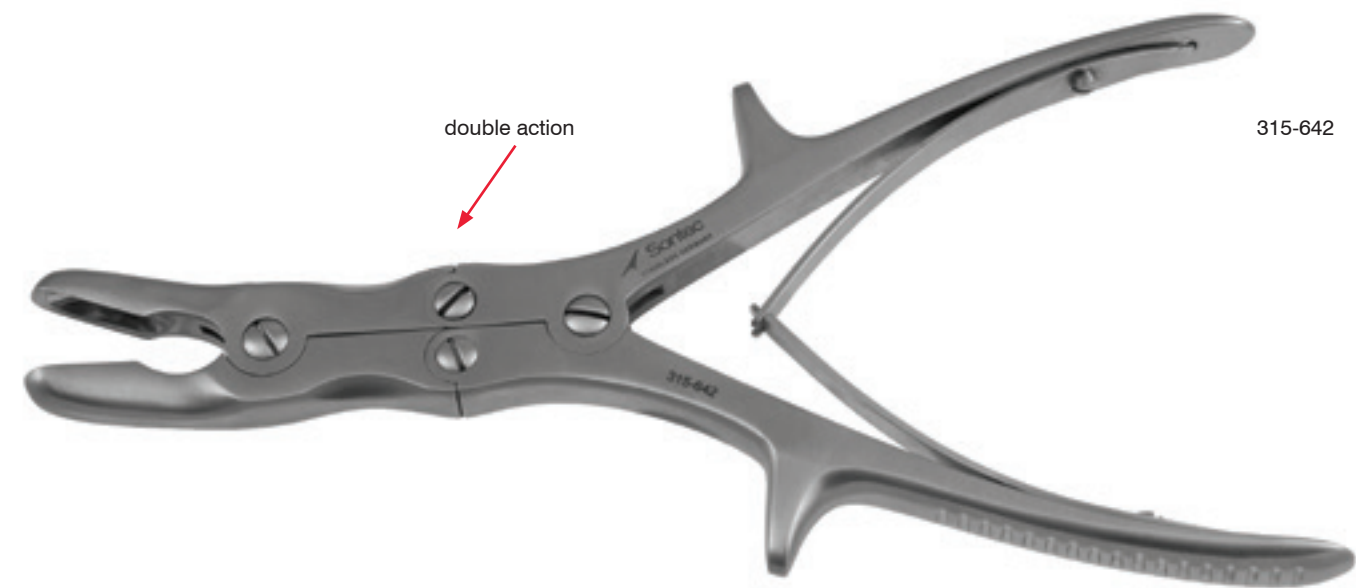
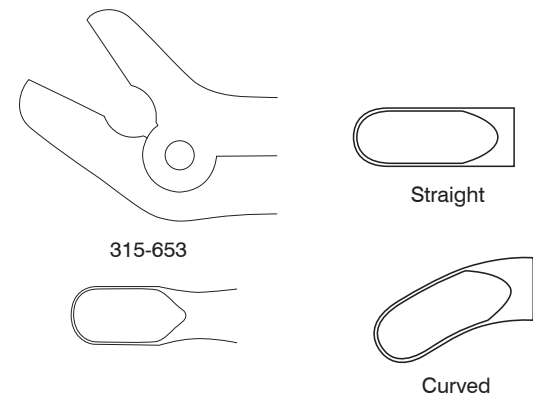
**Stille-Luer Rongeur**

**Double-action / 10 mm x 22 mm jaw**

- 315-640 str 8 3/4" (22.2 cm)
- 315-642 cvd 8 3/4" (22.2 cm)
- 315-646 str 10 1/2" (26 cm)
- 315-648 cvd 10 1/2" (26 cm)

**Double-action / 10 mm x 16 mm jaw  
/ curved to the side**

- 315-653 8 3/4" (22.2 cm)



**Stille-Luer Rongeur**

**Double-action / 17 mm x 22 mm jaw  
/ 8 1/2" (21.6 cm)**

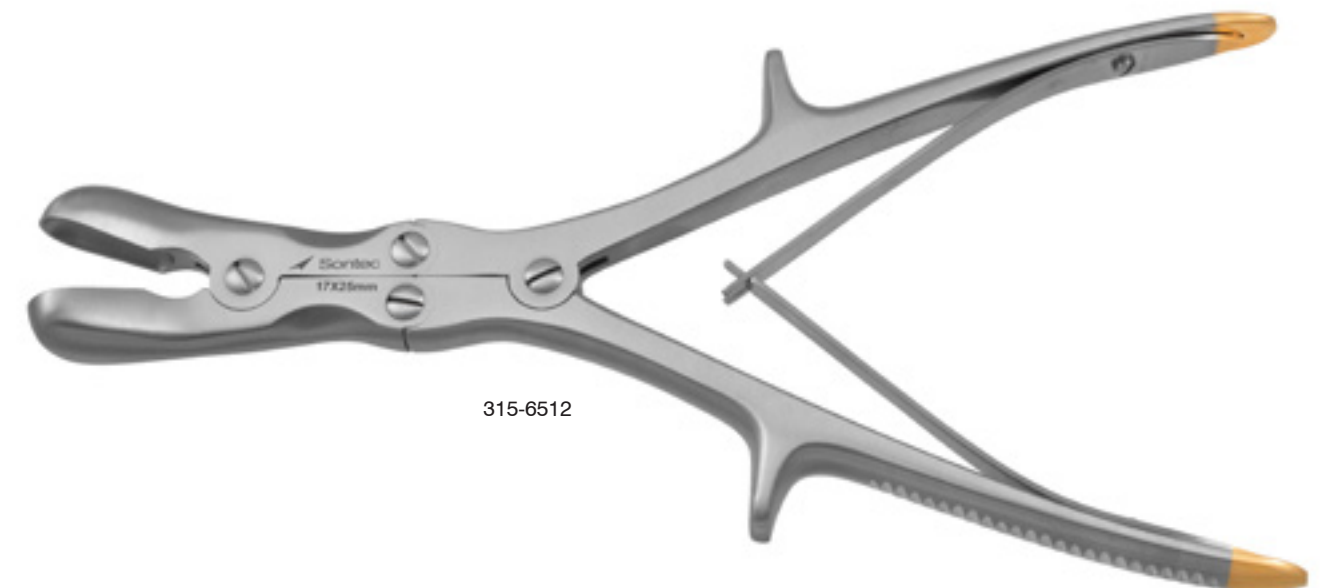
- 315-649 str
- 315-650 cvd

**Double-action / 17 mm x 25 mm jaw  
/ 10 1/2" (26.7 cm)**

- 315-651 str
- 315-6512 cvd



315-649

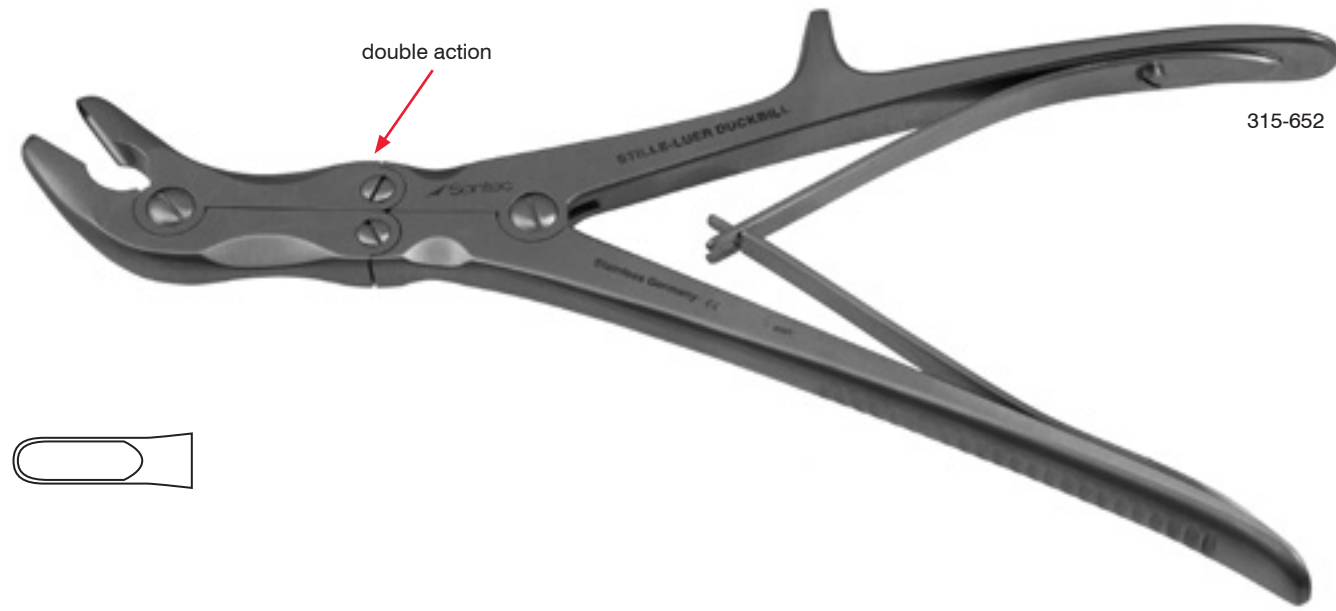


315-6512

**Stille-Luer Duckbill Rongeur**

Double-action / curved to side / 6 x 16 mm bite / 9" (22.9 cm)

315-652 standard  
315-652B black coated



315-652

**Semb Bone Rongeur**

17 mm x 14 mm bite / 9" (22.9 cm)

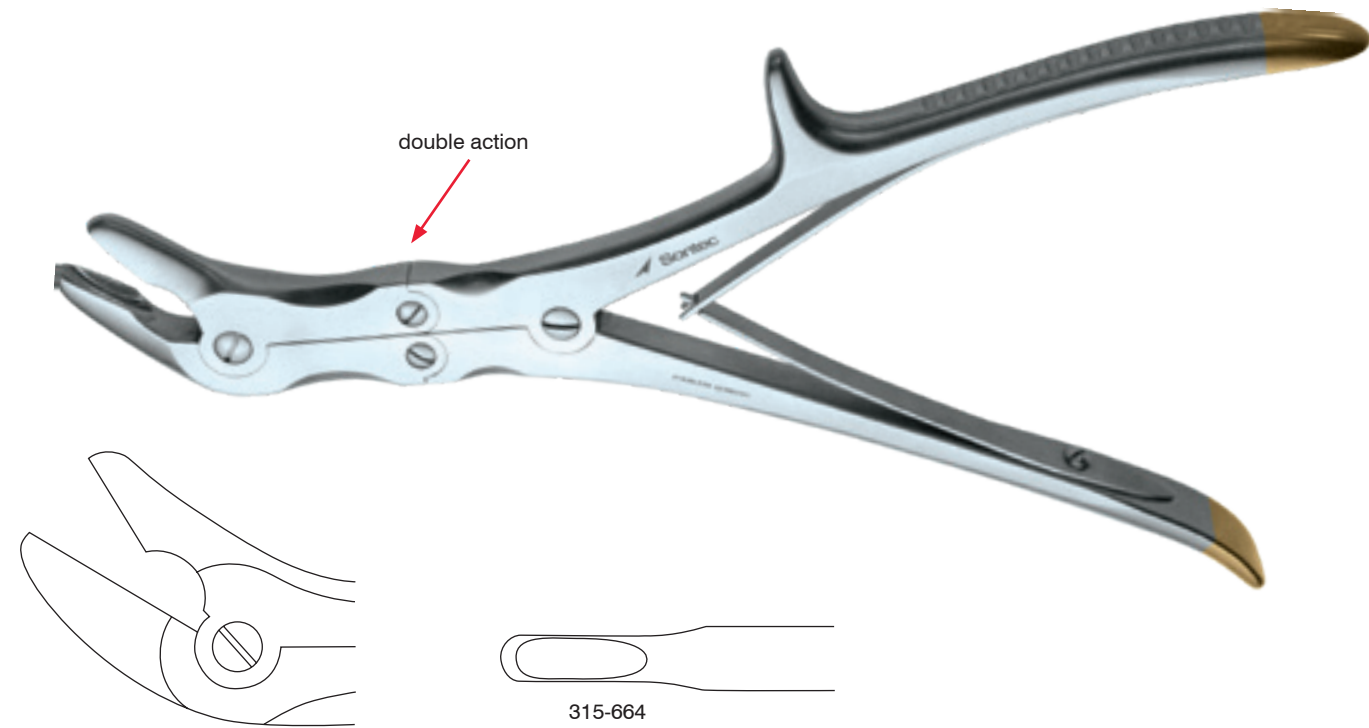
315-639



315-639

**Stille-Luer Echlin Duckbill Rongeur**

Double action / curved to side / 6 x 15mm bite / 9" (23 cm)  
315-664



**Stille-Luer Echlin Duckbill Bayonet Rongeur**

Double angle jaw / 5 mm / right / 9" (23 cm)  
315-655



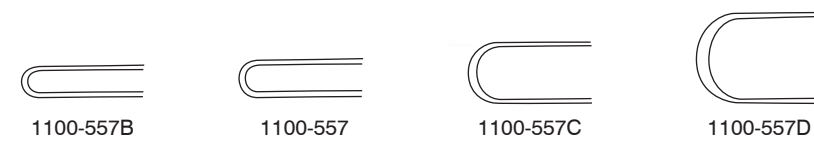
**Leksell Extended Bone Rongeur**

Light curve / 5 mm jaw / 15 3/4" (40 cm)  
1100-549



**Sypert Extended Rongeur**

Curved only / 14" (35.5 cm)  
1100-557B 4 x 16mm bite  
1100-557 5 x 16mm bite  
1100-557C 8 x 16mm bite  
1100-557D 12 x 16mm bite





 Sontec Instruments®

Orthopedic SINGLE ACTION RONGEURS

**Mini Neuro Rongeur**

5 1/2" (14 cm)

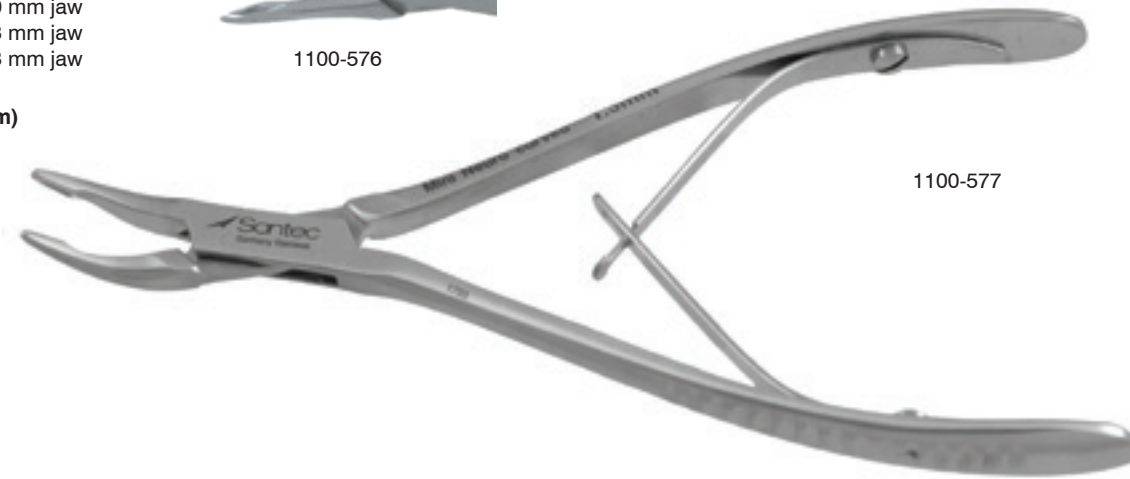
- 1106-080 str 0.75 mm jaw
- 1106-082 cvd 0.75 mm jaw
- 1106-084 str 1.0 mm jaw
- 1106-086 cvd 1.0 mm jaw
- 1100-577S str 1.3 mm jaw
- 1100-577 cvd 1.3 mm jaw



1100-576

1.4 mm jaw / 6" (15 cm)

- 1100-574 str
- 1100-576 cvd



1100-577

**Mini Neuro Premier Rongeur**

0.5 mm tip / 5 1/2" (14 cm)

- 1106-091 str
- 1106-092 cvd



1106-091



1106-092

**Micro Friedman Ring Handle Rongeur**

5 1/2" (14 cm)

- 1106-076 1.3 mm straight
- 1106-077 1.3 mm curved
- 1106-078 1.3 mm full curved
- 1106-079 2.0 mm curved
- 1106-0791 2.0 mm full curved



1106-077



1106-078



1106-079



1106-0791

**Kleinert-Kutz Rongeur**

2 mm x 6 mm jaw / 5 1/4" (13 cm)

- 315-581 slight curve
- 315-580 full curve



315-581



315-581



315-580

**Micro Friedman Rongeur**

1.5 mm x 5 mm jaw / 5 1/2" (14 cm)

- 315-505S str
- 315-505C 30° angle
- 315-505 90° angle



**Mini Friedman Rongeur**

2 mm x 8 mm jaw / 5 1/2" (14 cm)

- 1106-070 str
- 1106-075 cvd



**Shearer Chickenbill Rongeur**

Curved / 3 mm x 12 mm jaw

- 315-511 5 1/2" (14 cm)
- 315-513 6 1/2" (16.5 cm)
- 315-515 7" (18 cm)



**Hakansson Rongeur**

2.5 mm x 12 mm jaw / curved / 6 1/4" (16cm)

- 1103-230



**Stellbrink Rongeur**

2 mm x 8 mm jaw / 6 1/2" (16.5 cm)

- 315-566 slight curve
- 315-567 full curve



**Classic Lempert Rongeur**

2.5 mm x 10 mm jaw

- 315-542 straight 6 1/4" (16 cm)
- 315-544 curved 6 1/4" (16 cm)
- 315-548 straight 7 1/2" (19 cm)
- 315-550 curved 7 1/2" (19 cm)



\* Additional Rongeurs available. Please call for styles, sizes & details



**Sontec Lempert Rongeur**

2.5 mm jaw / 6 1/2" (16.6 cm)

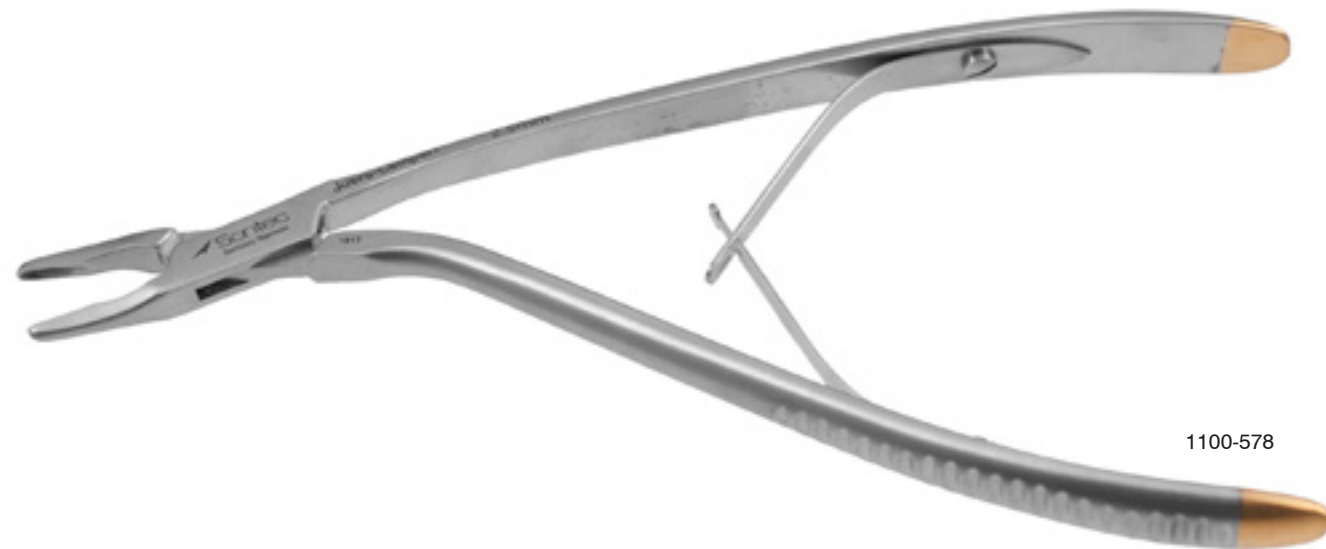
- 1100-542 straight
- 1100-544 curved



**Jeurs Lempert Neuro Rongeur**

Curved to side / 2.5 mm jaw / 7 1/2" (19 cm)

1100-578

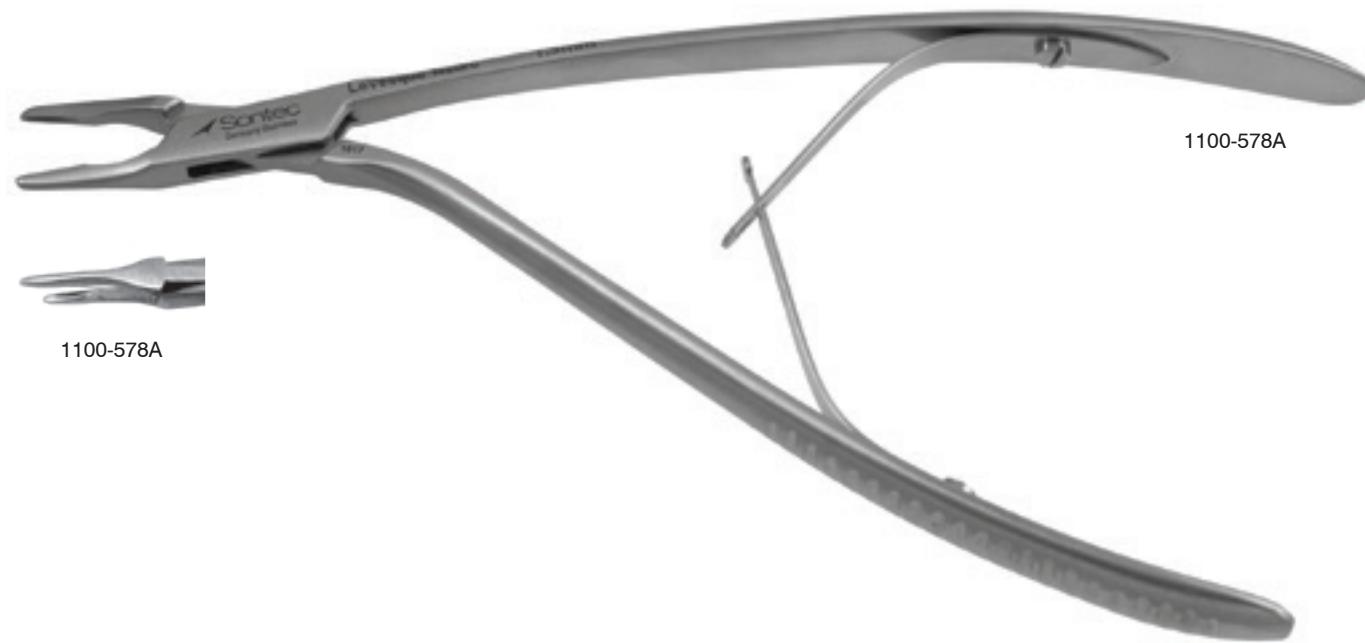


1100-578

**Levesque Neuro Rongeur**

Curved to side / low profile / extra delicate / 1.3 mm jaw / 7 1/2" (19 cm)

1100-578A



1100-578A

1100-578A

**Cicherelli Rongeur**

3 mm x 12 mm jaw / full curve / 6 1/2" (16.5 cm)

315-559



315-559

**Cleveland Rongeur**

Curved

315-526 5 1/2" (14 cm)

315-527 6 3/4" (17cm)



315-527

**Bane Single Action Rongeur**

Curved / 7" (17.8 cm)

315-538 small 4 mm bite  
315-540 large 5 mm bite



315-540

**Blumenthal Rongeur**

Tapered jaw / delicate / 4 1/2" (11.5 cm)

315-500M 30° angle  
315-501M 45° angle

Curved / 2.5 mm x 10 mm jaw / 6" (15 cm)

315-500 30° angle  
315-501 45° angle

Curved / 2.5 mm x 10 mm jaw / 7" (15 cm)

315-499 30° angle



315-501M

**Mead Rongeur**

Curved / 4 mm x 15 mm jaw  
/ 6 1/2" (16.5 cm)

315-495



315-495

**Olivecrona Rongeur**

3 mm x 18 mm jaw / curved / 8" (20.3cm)

315-630



315-630

**Defourmental Rongeur**

Straight / 7" (18 cm)

315-524



315-524

**Bacon Duckbill Rongeur**

Single-action / curved to side / 4.5 mm x 14 mm jaw / 8" (20 cm)

315-569



315-569



**Hartman Rongeur**

4.5 mm x 12 mm jaw / 5 3/4" (14.5 cm)

- 315-530 str
- 315-532 half curve
- 315-534 full curve



315-530



315-532



315-534



315-530

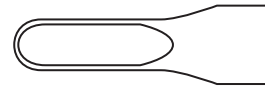


315-534

**Cushing Rongeur**

6 mm x 14 mm jaw / 8" (20.5 cm)

- 315-574 straight
- 315-576 curved



315-574



315-576

Serrated jaw / 6 mm x 14 mm jaw / 8" (20.5 cm)

- 315-572 straight
- 315-573 curved



315-574



315-572

**Adson Rongeur**

7 mm x 15 mm bite / 8" (20 cm)

- 315-564 straight
- 315-565 curved to side



315-565



315-564





 Sontec Instruments®

RASPS

**Double-Ended Rasp**

Single-sided / 7" (18 cm)

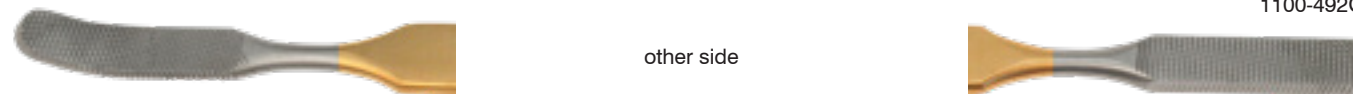
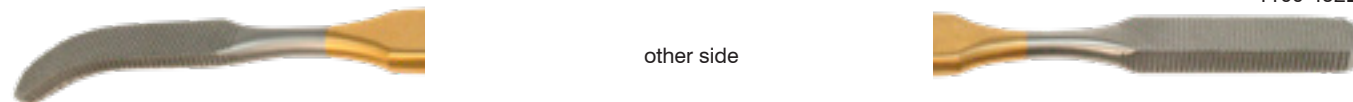
1103-224



**Sontec® Fomon Rasp**

Double-ended / four-sided / 8 1/2" (21.5 cm)

- 1100-492 straight
- 1100-492A straight fine
- 1100-492B one end concave
- 1100-492C one end convex



**Fomon Rasp**

Double ended / single-sided / 8 1/2" (21.5 cm)

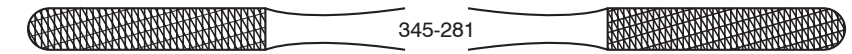
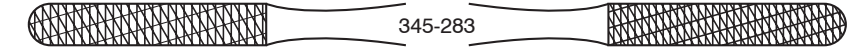
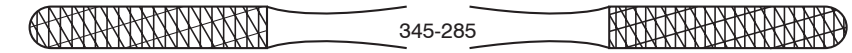
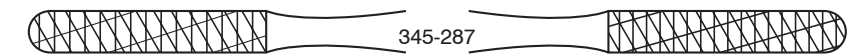
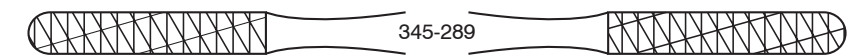
- 1100-492F straight
- 1100-492G one side concave
- 1100-492D one side convex



**Foman TC Insert Rasp**

TC / double-ended / single-sided / 8 1/2" (21.5 cm)

- 345-289 9 / 10
- 345-287 7 / 8
- 345-285 5 / 6
- 345-283 3 / 4
- 345-282 2 / 3
- 345-281 1 / 2



**Foman TC Insert Rasp Angled**

TC / double ended / single sided / angled

- 345-281A 1 / 2
- 345-283A 3 / 4
- 345-285A 5 / 6
- 345-287A 7 / 8
- 345-289A 9 / 10



345-281A



345-283A



345-285A



345-287A



345-289A

**Foman Rasp**

Serrated / double ended / single sided / 8" (20.3 cm)

- 345-290 1 / 2
- 345-291 3 / 4
- 345-292 5 / 6
- 345-293 7 / 8
- 345-294 9 / 10



345-290



345-291



345-292



345-293



345-294

**Foman Rasp**

TC serrated / single ended / 9" (22.9 cm)

- 345-2951 #1
- 345-2952 #2
- 345-2953 #3
- 345-2954 #4
- 345-2955 #5
- 345-2956 #6
- 345-2957 #7
- 345-2958 #8
- 345-2959 #9
- 345-2950 #10



345-2951



345-2951 345-2952 345-2953 345-2954 345-2955 345-2956 345-2957 345-2958

**Foman "R" Rasp**

Double ended / TC / 8  
1/4" (21 cm)  
345-279



**Polokoff Bone Rasp Double-Ended Single-Sided**

1103-241 5.5 mm / 6 mm 8"  
1103-242 3 mm / 4 mm 7 1/2"



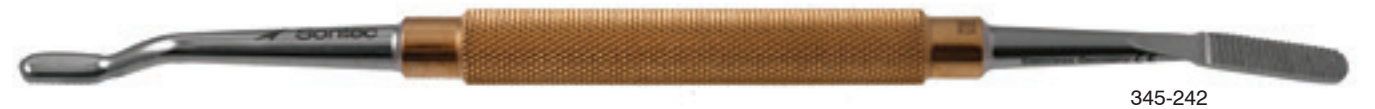
**Howard Bone Rasp Double-Ended Single-Side**

7 1/8"  
1103-223 #12  
1103-225 #12A  
1103-226 #12CA



**Miller Bone Rasp Double-Ended Single-Sided Serrated**

7"  
345-241 5 mm / 6 mm #33  
345-242 3 mm / 4 mm #64  
1103-233 6 mm / 7 mm #10



**Miller Bone Rasp Double-Ended Single-Sided**

7 1/2"  
1103-229 6 mm / 7 mm #45



**Miller Rasp**

Concave / single  
ended / TC / 8"  
(20.25 cm)  
345-305



**Sontec-Miller TC Insert Rasp**

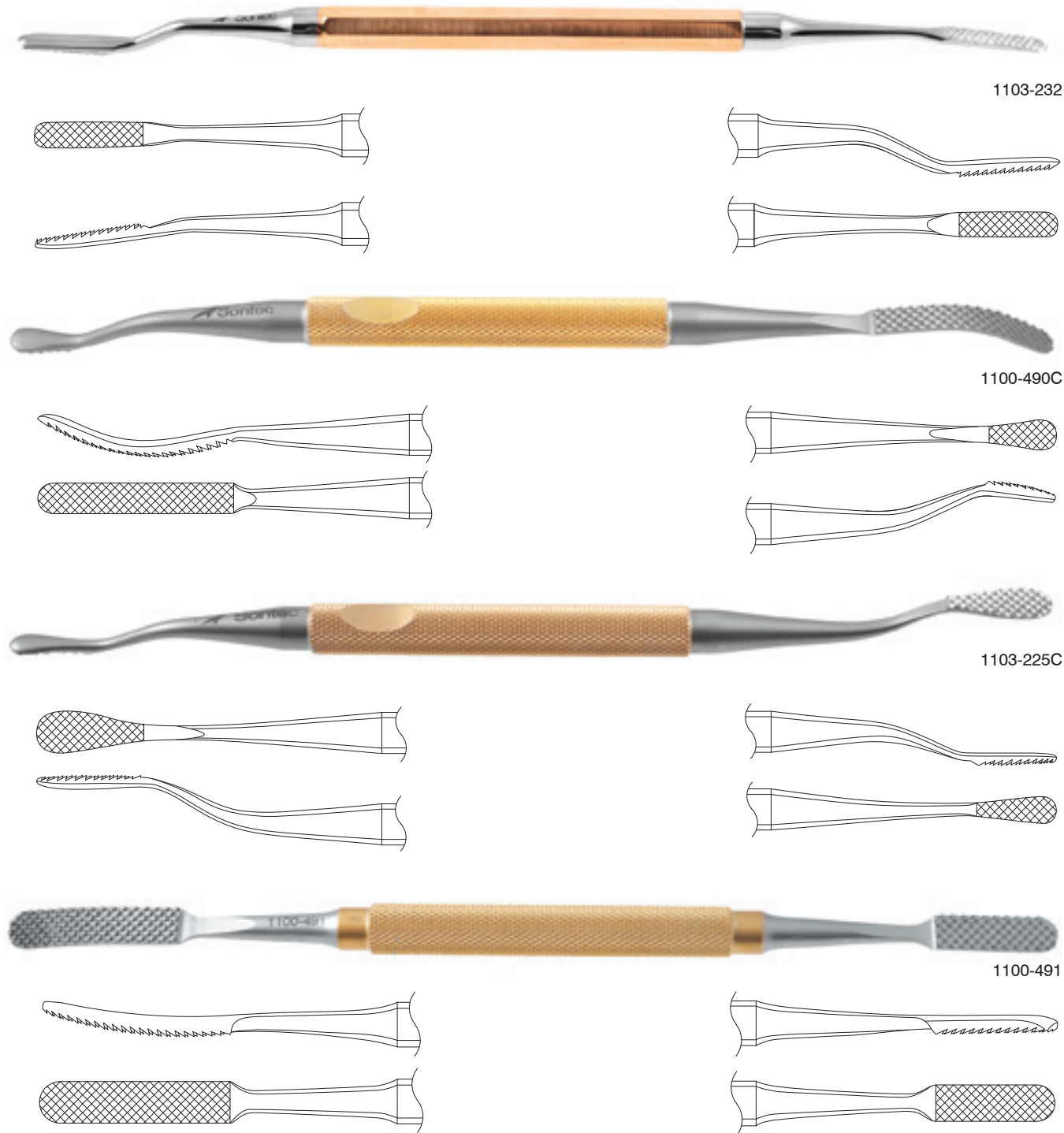
Double-ended / TC / 7 1/8" (18.25 cm)  
345-300 serrated  
345-302 cross-serrated



**Miller Cross Serrated Rasp**

Double-ended / cross-serrated / up & down rasping / 7 1/8" (18.25 cm)

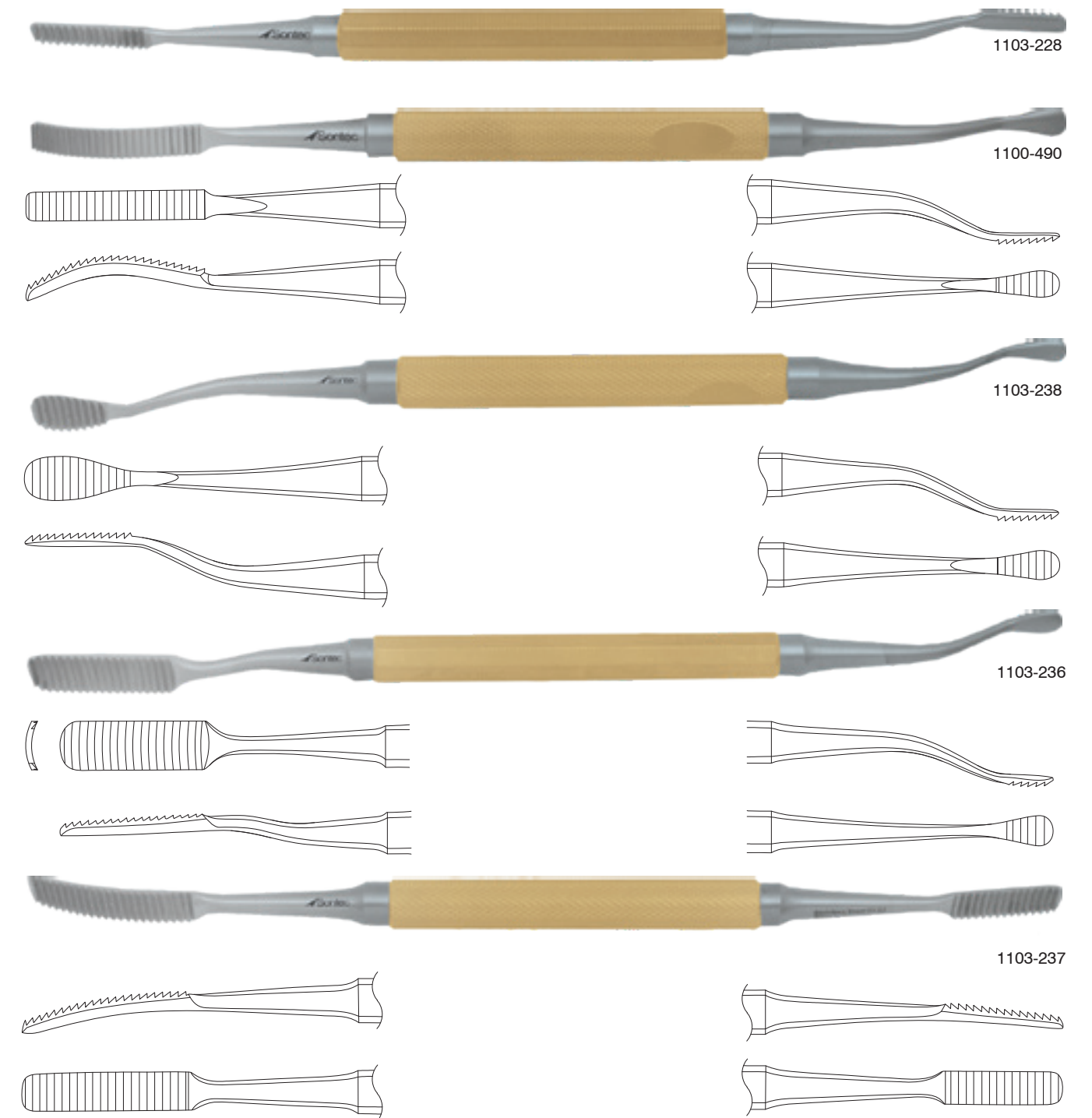
- 1103-232 4 mm & 4 mm wide
- 1100-490C 5 mm & 6 mm wide
- 1103-225C 5 mm & 7 mm wide
- 1100-491 6 mm & 7 mm wide



**Miller Parallel Serrated Rasp**

Double-ended / regular cut / down rasping / 7 1/8" (18.25 cm)

- 1103-228 4 mm & 4 mm wide
- 1100-490 5 mm & 5 mm wide
- 1103-238 5 mm & 7 mm wide
- 1103-236 5 mm & 8 mm wide
- 1103-237 6 mm & 7 mm wide



**Sontec Micro Rasp**

Single-ended / double-sided / 5 1/2" (14 cm)

- 345-265 straight 2.1 mm x 30 mm x 1 mm
- 345-264 curved 3.2 mm x 30 mm x 2.5 mm

Single-ended / single-sided / special order

- 345-266 5 1/2" (14 cm) 3 mm x 30 mm x 2.0 mm
- 345-267 7" (18 cm) 3 mm x 30 mm x 2.0 mm



345-265



345-264



345-266

**Nail Rasp**

Single-sided / 6 3/4" (17 cm)

- 345-243

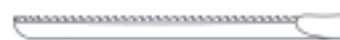


345-243

**Maltz Single-Ended Rasp**

Single-sided / 7" (18 cm)

- 345-310 reverse
- 345-311 forward cut



345-310 (reverse)



345-311 (forward cut)



345-310



345-311

**Rhinoplasty Rasp**

Straight / 7 3/4" (20 cm)

- 345-312 teeth down
- 345-314 teeth up



345-312



345-314

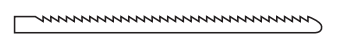
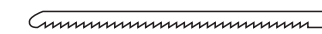
**Maltz Improved Double Ended Rasp**

Single-sided / up & down rasping / 8 1/4" (21 cm)

- 1103-235



1103-235



**McCollough Twist Fomon Raspatory**

Double-Ended-Single-Ended / TC / 8 1/2" (21.6 cm)

- 345-350 #2/3
- 345-352 #4/6



345-352

**Putti Bone Rasp**

- 345-220 leaflet / leaflet 10 1/2" (26.7 cm)
- 345-218 conical / leaflet 12" (30.5 cm)



345-218

**Putti Bone Rasp**

Round blade / T-handle / 12" (30.5 cm)

345-224



345-224

**Putti Bone Rasp**

Single-ended / phenolic handle

345-226 leaflet 9 3/4" (24.8 cm)

345-228 conical 10" (25.4 cm)



345-226



345-228

**Single Side Rasp**

8" / phenolic handle / flat

345-222 straight 0.5" x 1.5" tip



345-222

**Combination Bone Rasp**

With 3 interchangeable heads

1100-485-SET

set includes the following:

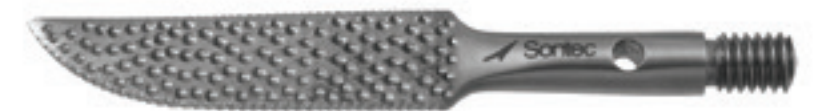
- 1100-485 combination bone rasp handle only
- 1100-4851 combination bone rasp round tip only
- 1100-4852 combination bone rasp putti leaflet only
- 1100-4853 combination bone rasp flat round tip only



1100-485



1100-4851



1100-4852

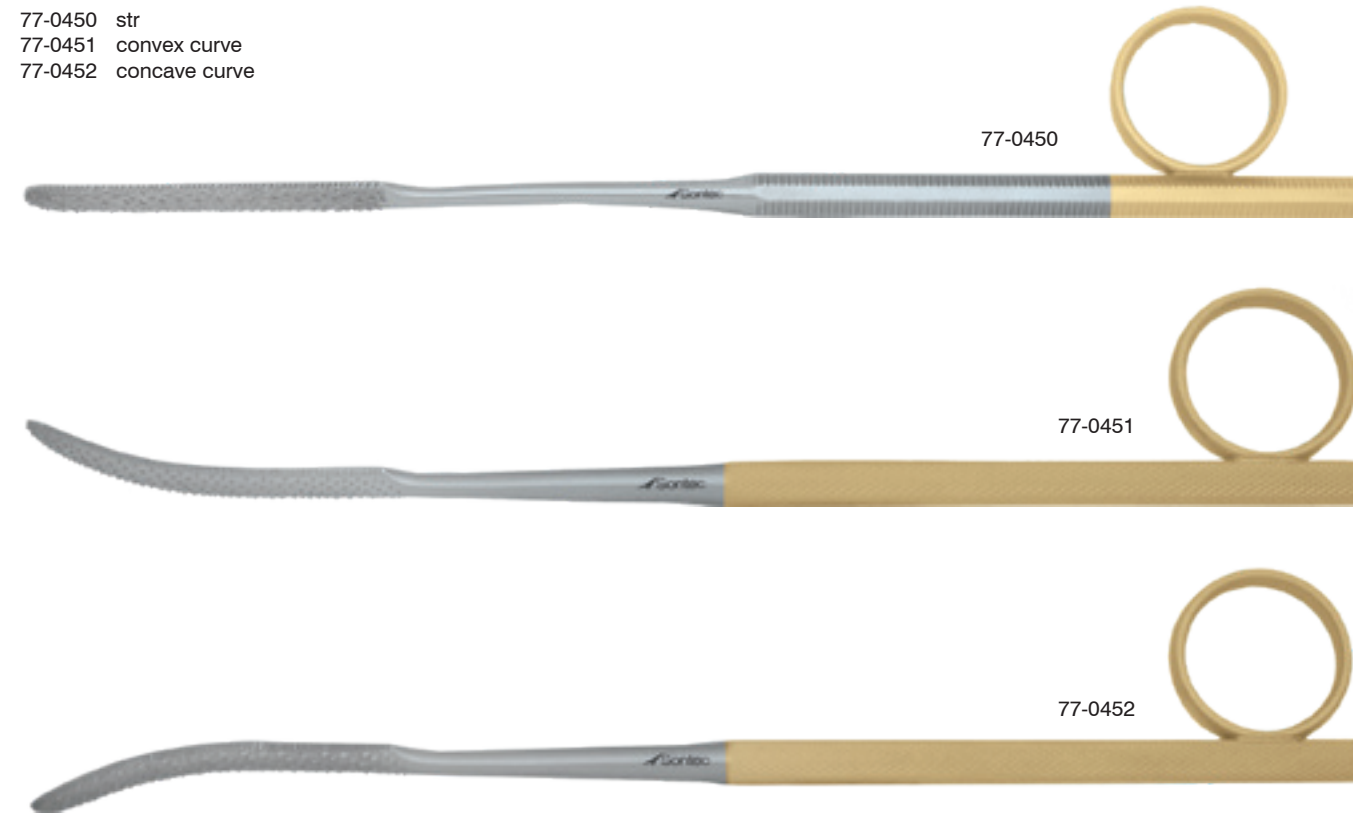


1100-4853

**Gallaher Bone Rasp Set**

7 1/8" (18.25 cm)

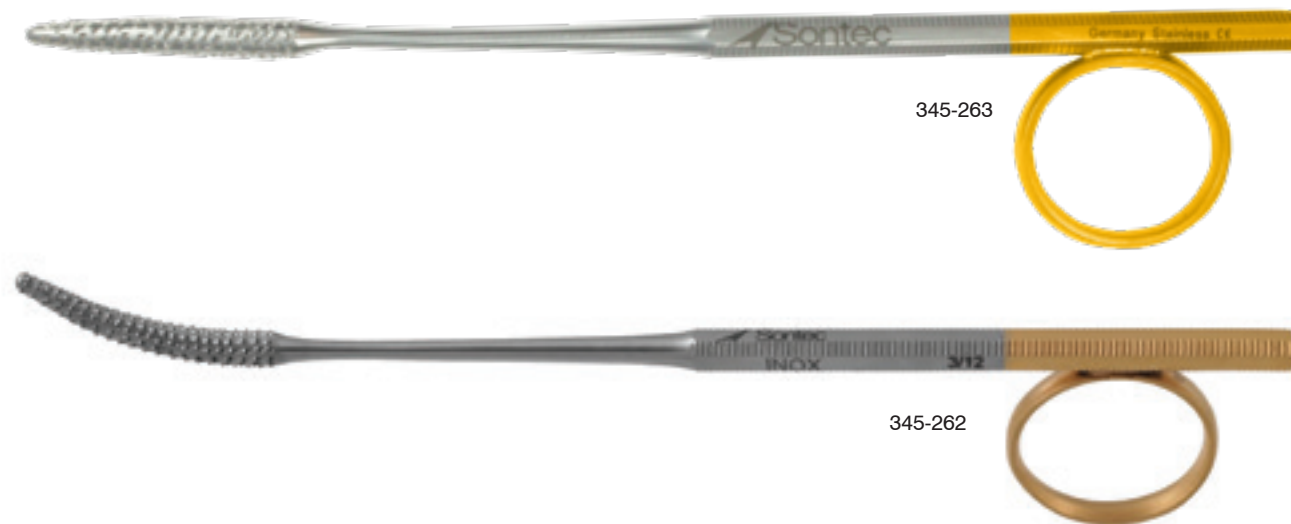
- 77-0450 str
- 77-0451 convex curve
- 77-0452 concave curve



**Good Bone Rasp**

Conical / 6 1/2" (16.5 cm)

- 345-263 straight
- 345-262 curved



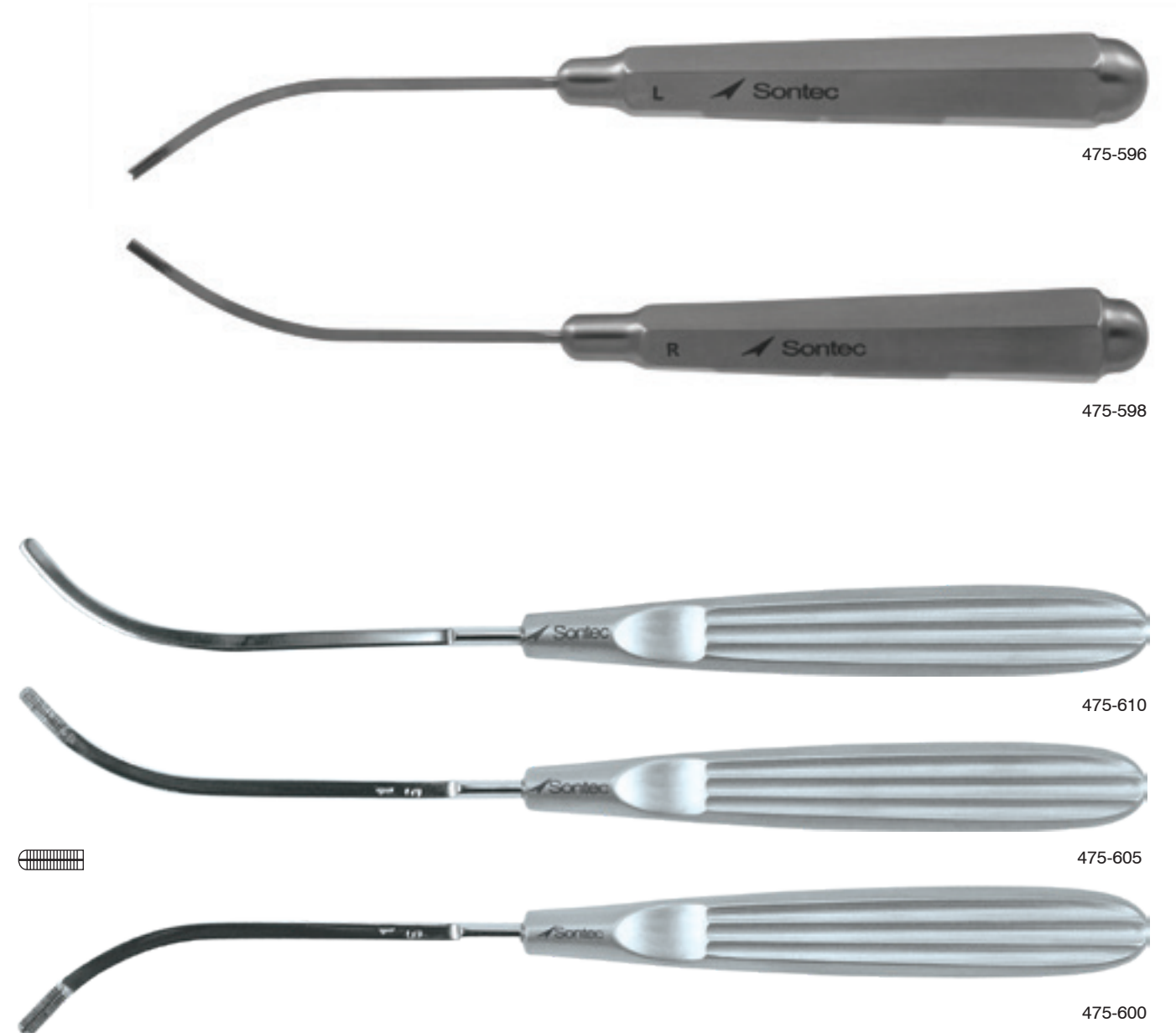
**Sontec Ear Rasp Set**

Serrated / 6" (15.2 cm)

- 475-596 curved left
- 475-598 curved right

7 1/4" (18.5 cm)

- 475-610 curved right
- 475-605 curved right serrated
- 475-600 curved left serrated
- 475-615 set of all three



**Kistler Ear Cartilage Rasp**

Curved / 6 1/2" (16.5 cm)

475-618L left  
475-618R right



475-618L



475-618R

**Glabella Masing Rasp**

TC / 7 3/4" (19.5 cm)

345-340



345-340

**Sontec Glabella Pull Push Curved Tip Rasp**

Single-ended / curved / 7 1/2" (19 cm)

345-342 teeth cut down pull  
345-344 teeth cut up push



345-342



345-344

**Sontec Patella Raspatory**

#4 / TC insert / 7 1/8" (18 cm)

345-247



345-247

**Masing Rasp**

Single ended / straight  
/ TC / 7 3/4" (19.5 cm)

345-289R course  
345-338 fine



345-289R



345-338

**Sontec Diamond Surface Rasp**

7 3/8" (18 cm)

345-345 straight  
345-346 curved



345-345



345-346

**Obwegeser Fenestrated Serrations Rasp**

Double-ended / flat, straight / infinity cut / 7 1/2" (19 cm)

345-320 fine grit  
345-322 medium grit



345-322

Double-ended / flat, curved / infinity cut / 7 1/2" (19 cm)

345-324 fine grit  
345-326 medium grit



345-326

Double-ended / concave / infinity cut / 7 1/2" (19 cm)

345-330 fine grit  
345-332 medium grit



345-332

**Sontec®-Glabella Sculpting TC Insert Rasp**

TC / 7" (18 cm)

345-246



345-246

**Webster Glabella Sculpting Rasp**

TC serrated tip / 4 mm x 8 mm / 8 1/4" (21 cm)

345-246A



345-246A

**Obwegeser Solid Fine Grit Nasal Rasp**

Double-ended / 7 1/2" (19 cm)

345-320S straight  
345-324S curved



345-320S



345-324S

**Sontec Spinal File/Rasp**

Phenolic handle / TC / 10" (25.4 cm)  
/ curved

345-270



345-270

Phenolic handle / cross-serrated /  
straight / 6.5 mm / 15" (38 cm)

345-216



345-216

Black plastic handle / 6 mm

345-216B straight 15" (38.1 cm)

345-215B angled 14 1/2" (36.8 cm)



345-216B



345-215B

**Long Handle File**

Black plastic handle /  
square file / 18" (45.7 cm)

320-591 straight

320-592 15° angle

Black plastic handle / round  
file / straight / 18" (45.7 cm)

320-593



320-591



320-593



320-592

**JPS Bone File**

8 3/4" (22.2 cm)

345-217



back



front

345-217



 Sontec Instruments®

Headlights & Cameras

**Sontec Elite Wireless LED Headlight**

Includes: 2 batteries, sterilizable lever, universal transformer with adapters, lightweight carrying case, wireless LED headlight and operator manual

100-5500 LED 5500 30,000 lux output at 16" / 40 cm distance



**Sontec Elite Wireless LED Headlight**

Includes: 2 batteries, sterilizable lever, universal transformer with adapters, lightweight carrying case, wireless LED headlight and operator manual

100-9500 LED 9500 70,000 lux output at 16" / 40 cm distance



### Sontec LED Plus+ Headlight

Up to 4.25 hours of runtime per battery / 10 - 100 mm @ 400 mm working distance of sport control / > 40,000 lux @ 30 cm of illumination / > 50,000 hours of LED Life / 3.6 hours for normal recharge time / 2 hours of quick recharge time for 3 hours of maximum intensity

Warranty  
2 years on LED Headlight  
1 year on Battery Pack  
SIL-2410



### Sontec Magnum LED Headlight

12 oz./350 grams of battery and holster weight / 10 oz./300 grams of headlamp weight / 3 intensity levels of 30k lux, 50k lux & 70k lux, all @ 12"/30 cm / 75k lux of light output @ 12" / 2 hours, for 8 hours of maximum intensity for quick recharge time / 7 hours of continuous operation at Hi intensity for operating time / headband is lightweight comfortable with washable foam inserts

Warranty  
2 years on LED Headlight  
1 year on Battery Pack  
SIL-2399



## Sontec proCam 4K Micro Camera System

4k UHD, 30 fps video resolution / 8/13 mpx resolution still / 32 x 28 x 23 mm size without lens / 23 grams body weight ONLY / 3x built-in zoom / UHD video, high resolution, documentation for strength / USB 2 connection / standard 16 mm, Hi magnification 25 mm UHD, wide angle 12 mm and 8 mm lenses / compatible with Windows, Mac and Android

SIL-2480

\*headlight sold separately



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