



Sontec Instruments®

A TRADITION OF FINE SURGICAL INSTRUMENTS

CARDIOVASCULAR CATALOG

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 Cardiovascular catalog.

Sincerely,



Dennis Russell Scanlan III

Table of Contents

Important Information 4

Clamps 15

Forceps 59

Needle Holders 147

Retractors 207

Scissors. 235

Misc. & Suction 317

M.I.S. 355

V.A.T.S. 389

Thoracoscopic 421

Index 424

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

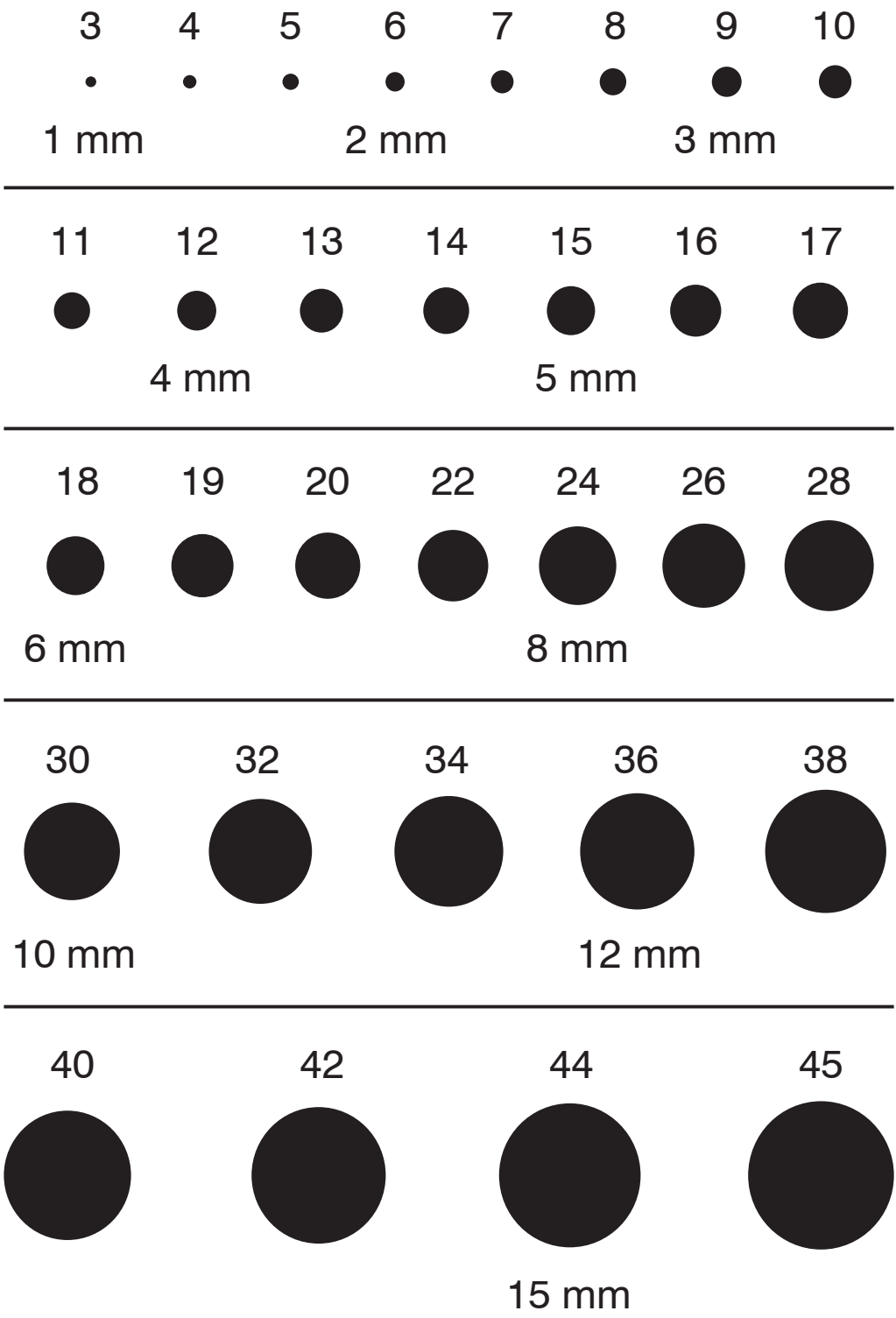
Contact Info

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

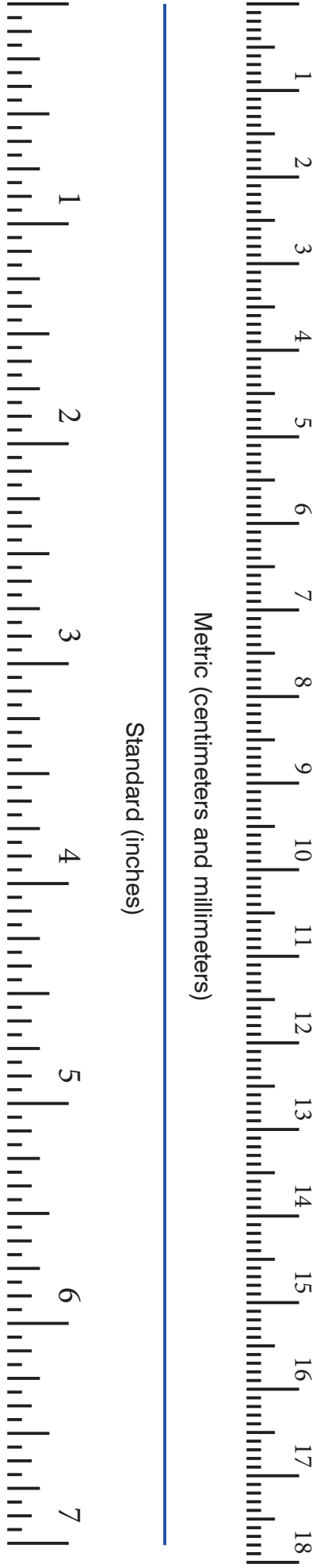
Problem	Cause	Solution
Rust	Worn chrome plating on brass instruments	Be aware of plating condition and remove from service when wear is visible.
	Cross-corrosion from carbon instruments to stainless steel	Keep carbon steel and stainless steel instruments separated during cleaning and sterilization.
	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		



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

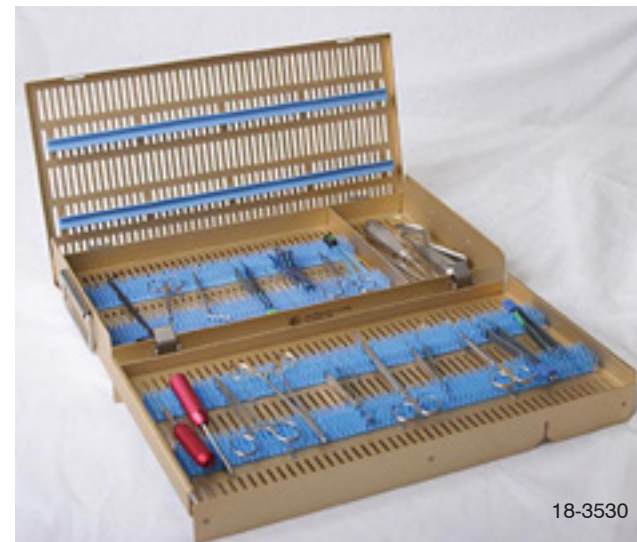
* Instruments not included



18-3520



18-3525



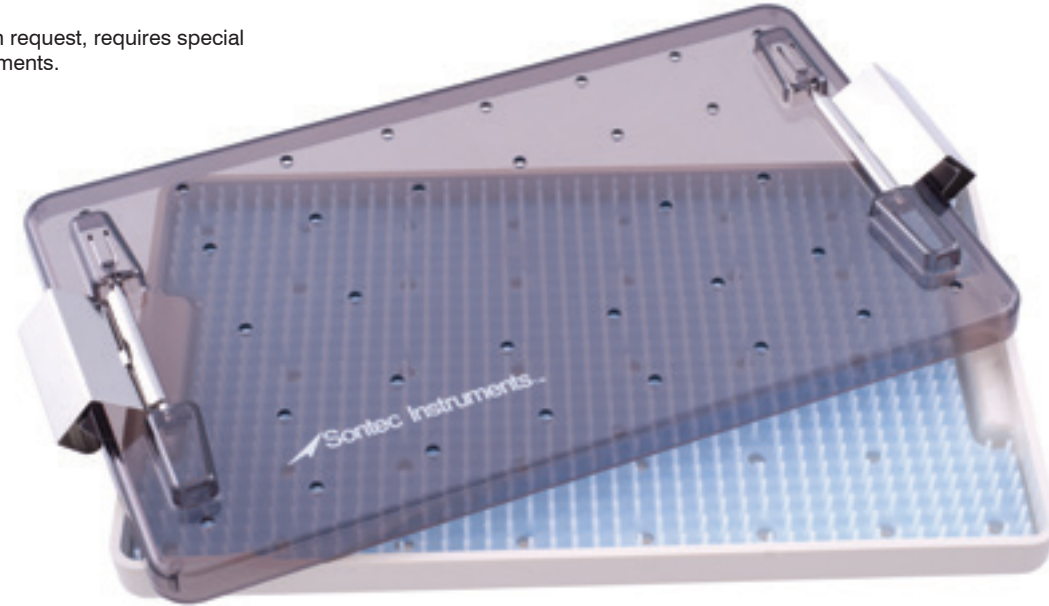
18-3530

Thermoplastic Instrument Trays

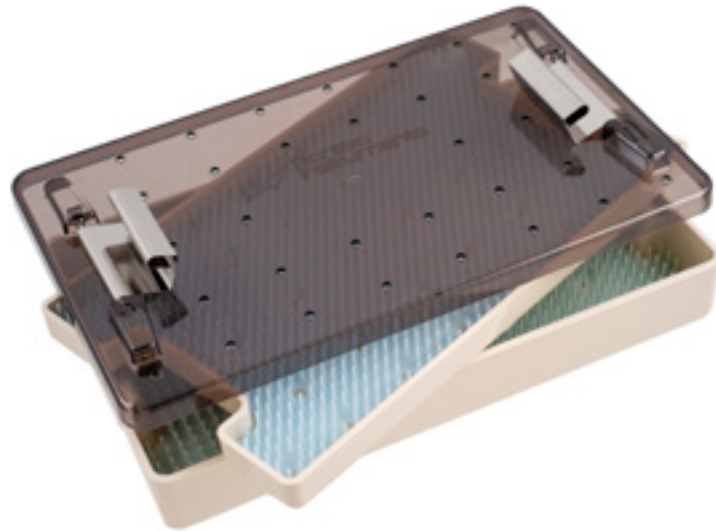
With silicone mat and metal clasps / autoclavable

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"

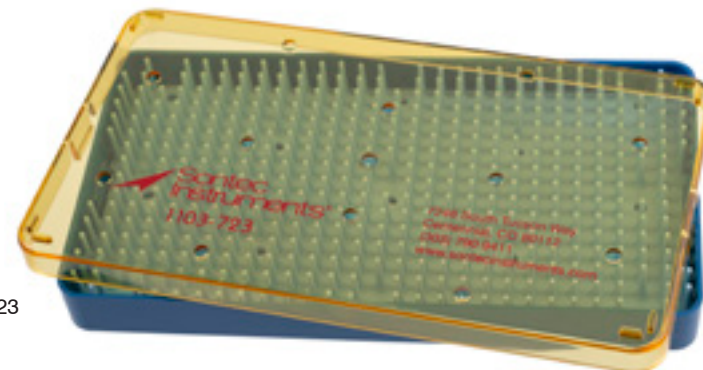
* Other sizes available upon request, requires special order. Check your measurements.



1103-712



1103-717



1103-723

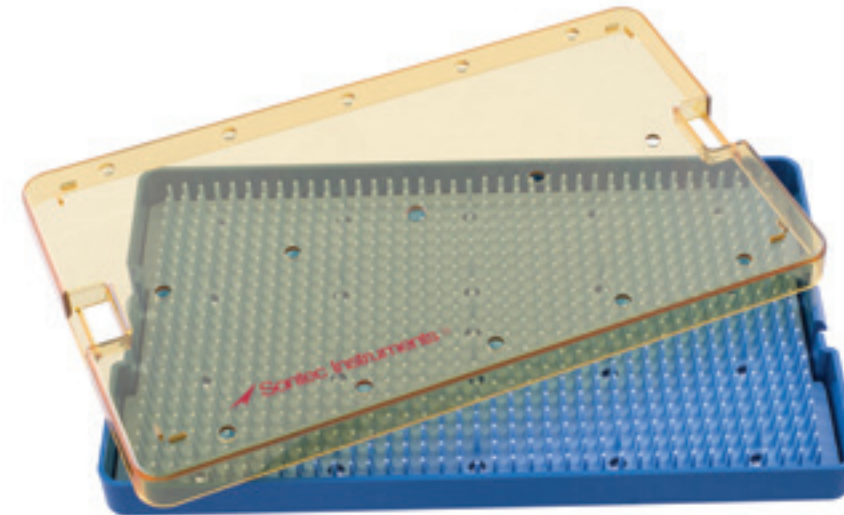
Thermoplastic Instrument Tray

With silicone mat / autoclavable

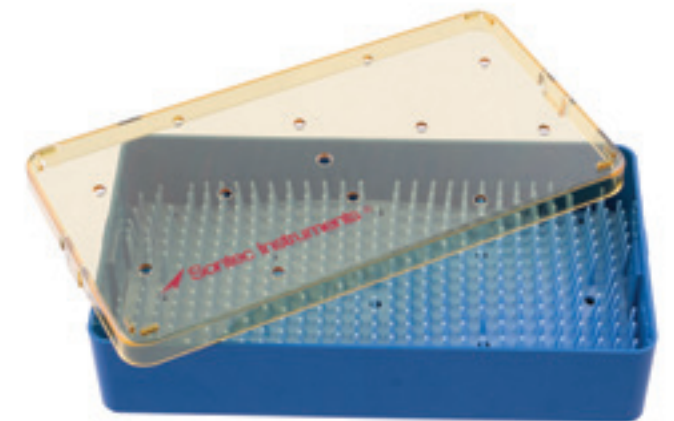
1103-702	single	6" x 2 1/2" x 3/4"
1103-703	single	1.5" x 2.7" x .75" mini tray
1103-705	single	6" x 4" x 3/4"
1103-723	single	7 1/2" x 4" x 3/4"
1103-710	single	10" x 6" x 3/4"
1103-702D	single	6" x 2 1/2" x 1 1/4" deep
1103-724	single	7 1/2" x 4" x 1 1/2" deep
1103-716	single	10" x 6" x 1 1/2" deep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



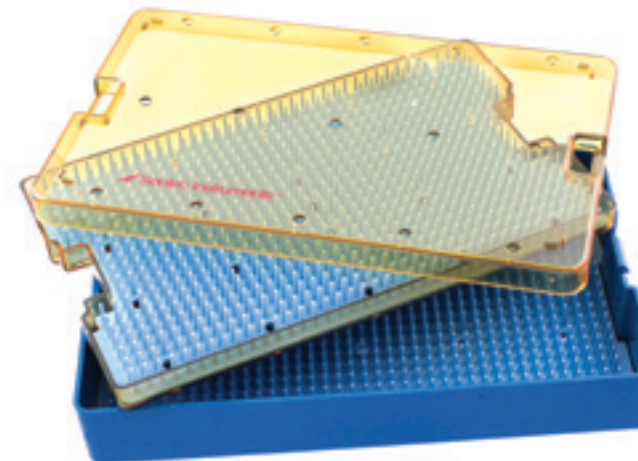
1103-703



1103-710



1103-724

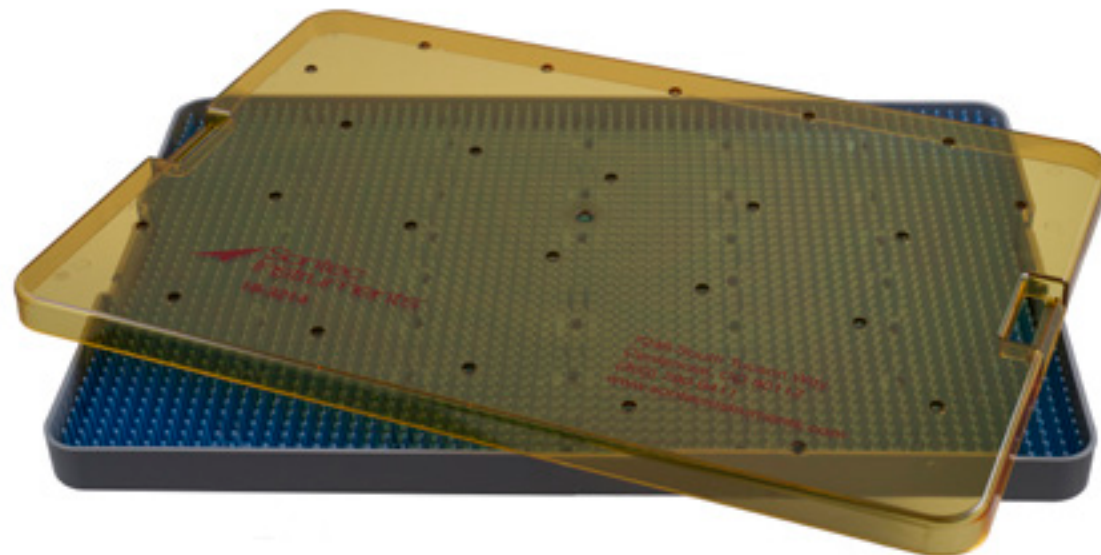


1103-715

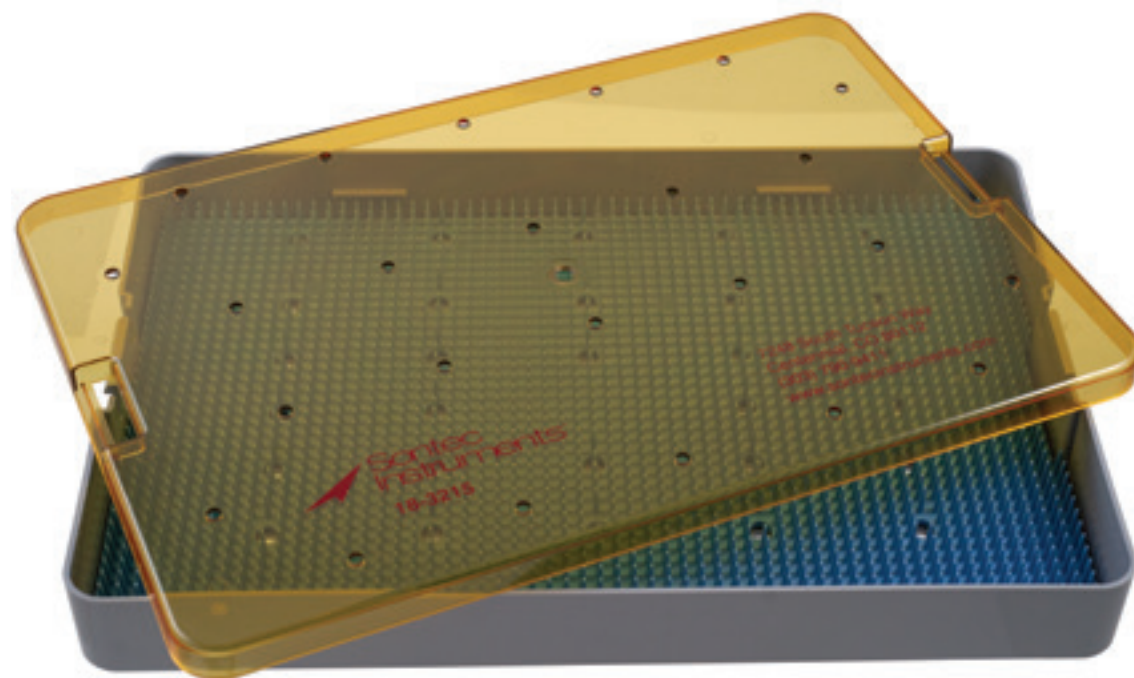
Thermoplastic Instrument Tray

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

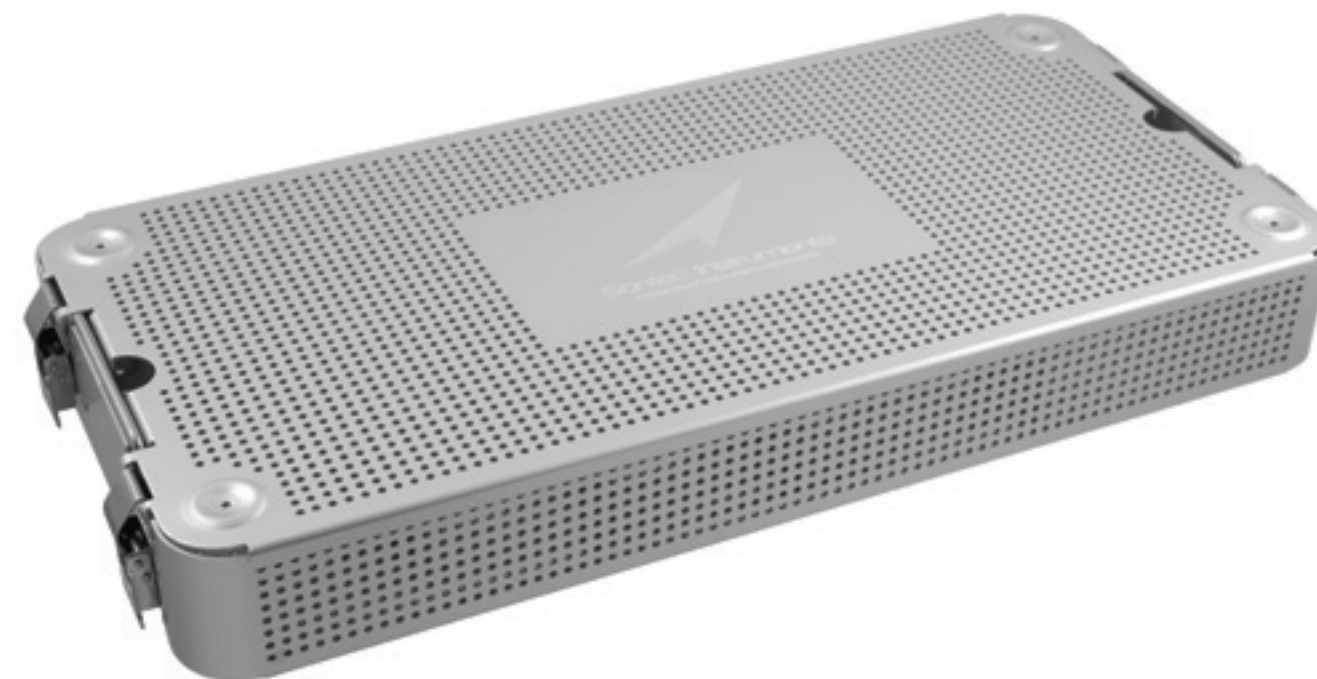


18-3215

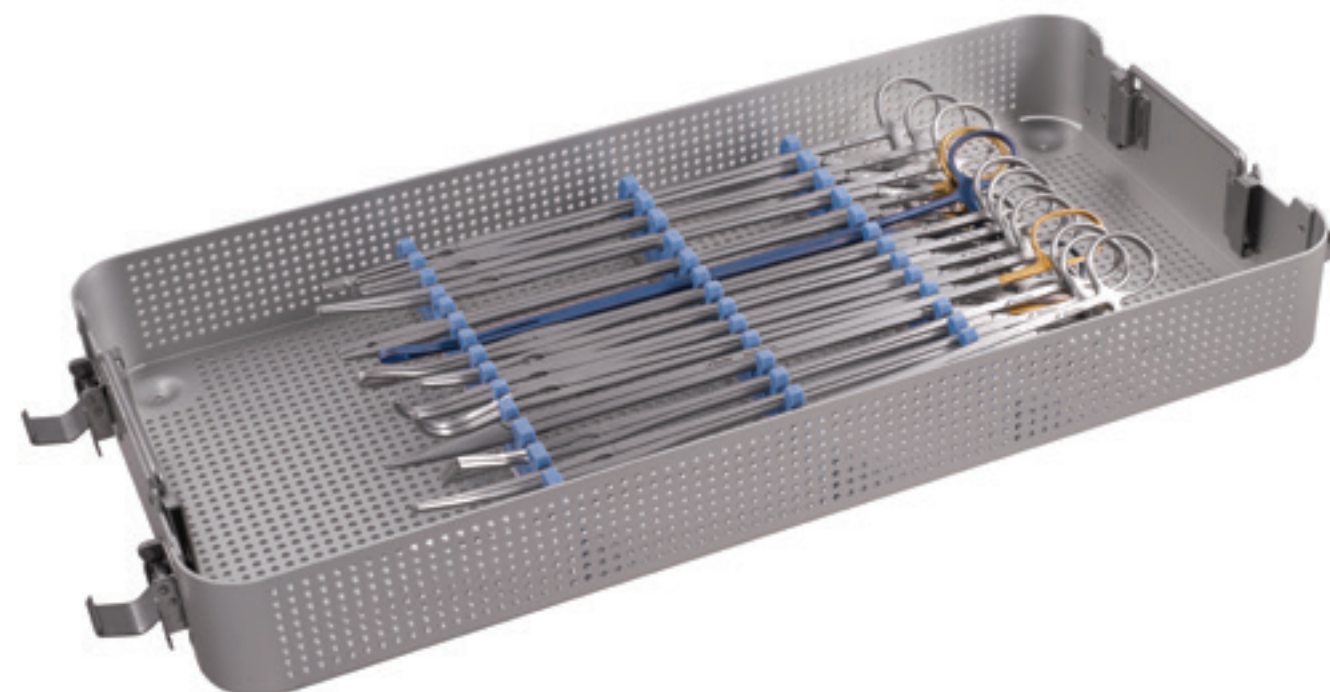
Universal Surgery Tray

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

18-3560



18-3560





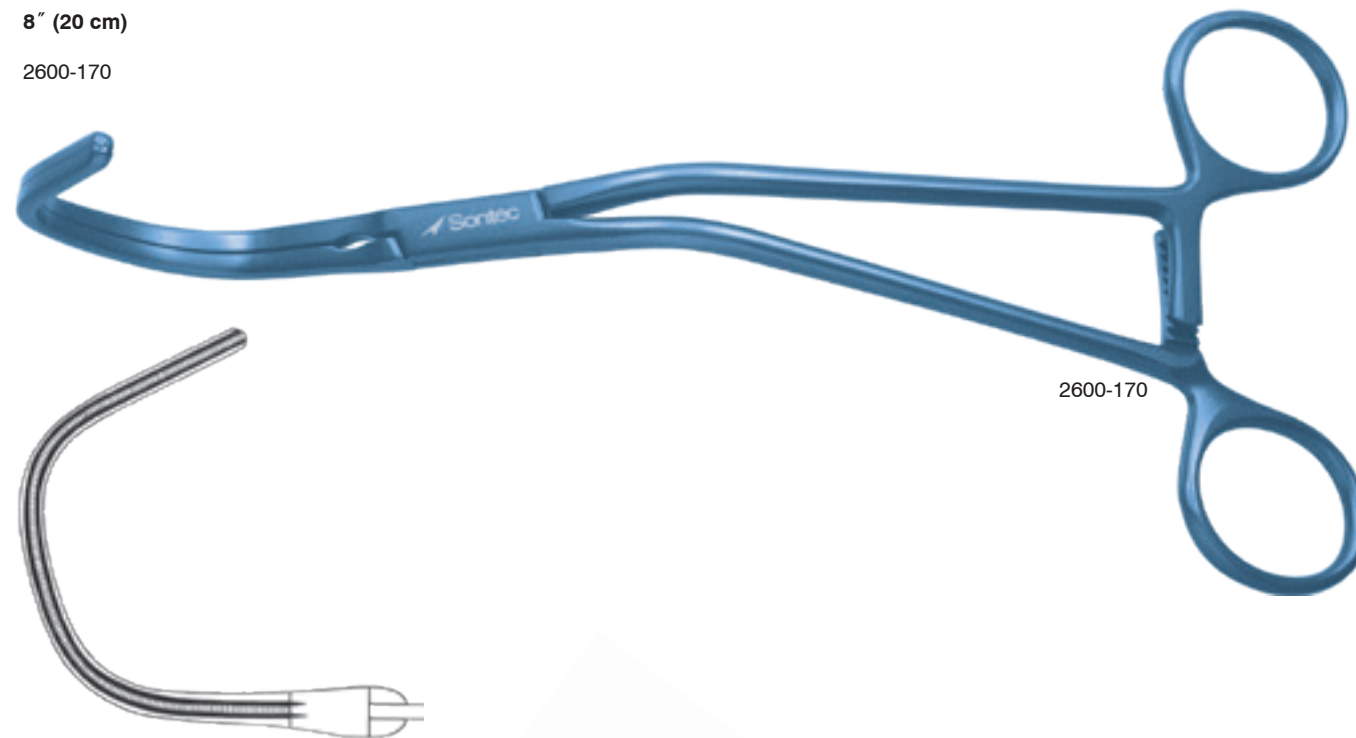
 Sontec Instruments®

Clamps

Lambert Aortic Clamp Titanium

8" (20 cm)

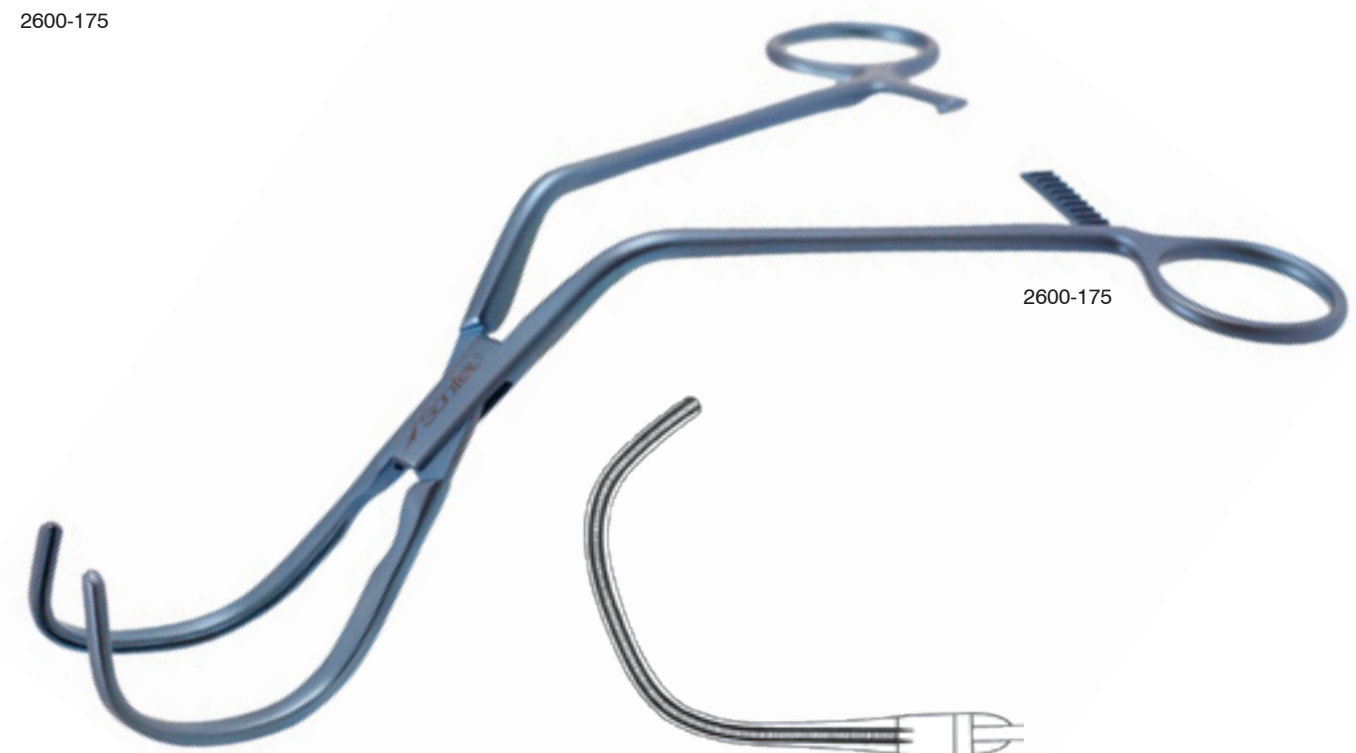
2600-170



Lambert-Kay Aortic Clamp Titanium

8" (20 cm)

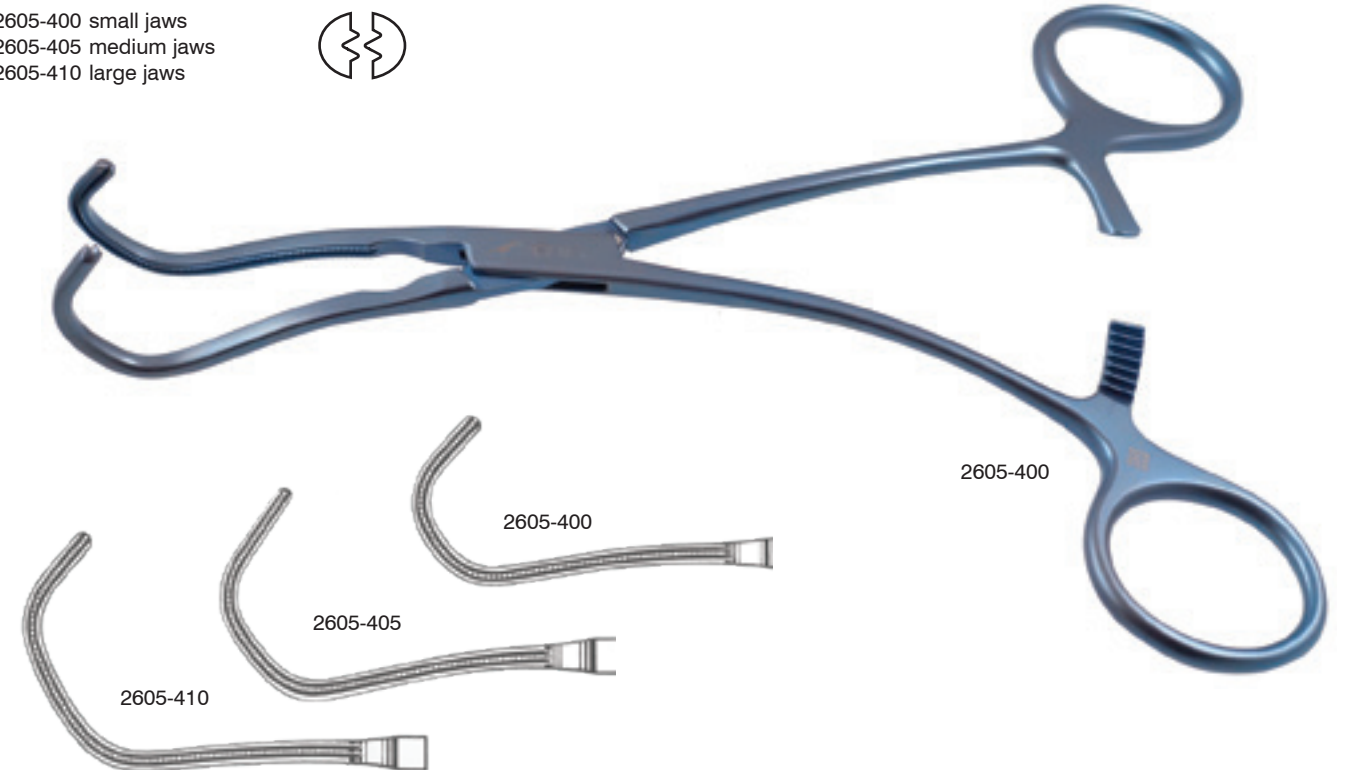
2600-175



Debakey-Derra Clamp Titanium

6 3/4" (17 cm)

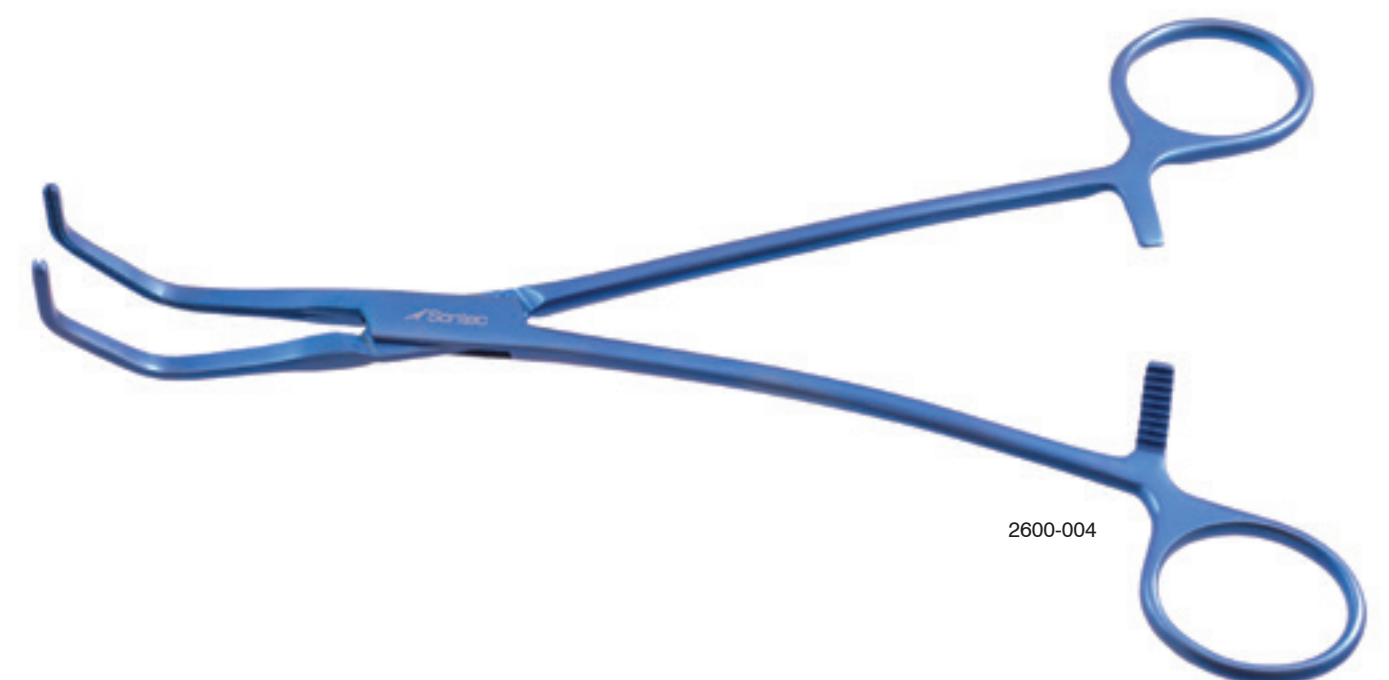
2605-400 small jaws
2605-405 medium jaws
2605-410 large jaws



Satinsky Cooley Occlusion Clamp Titanium

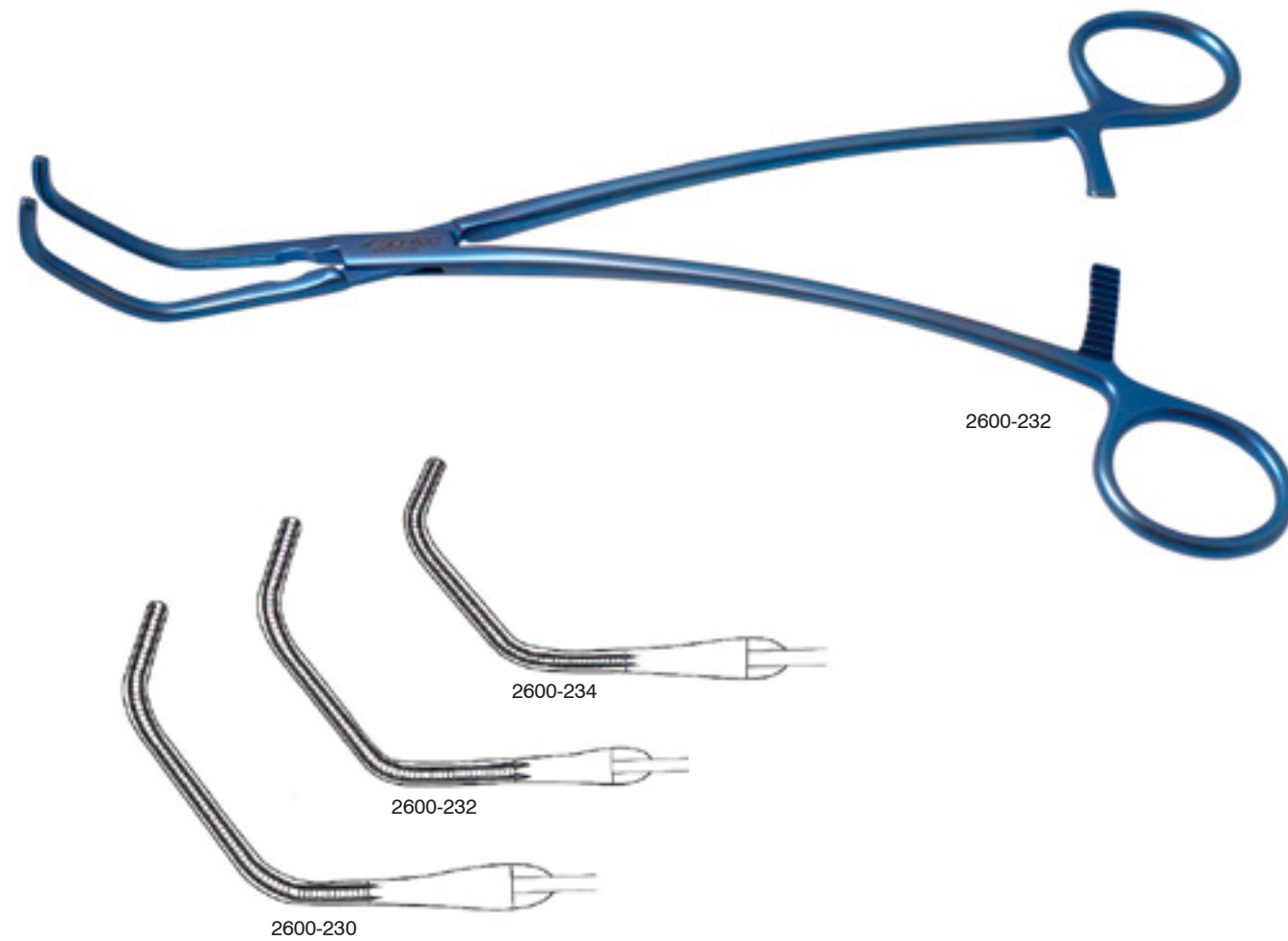
Double angled / atraumatic jaws / 52 mm x 12 mm / 8" (20.3 cm)

2600-004



Satinsky Vena Cava Clamp Titanium

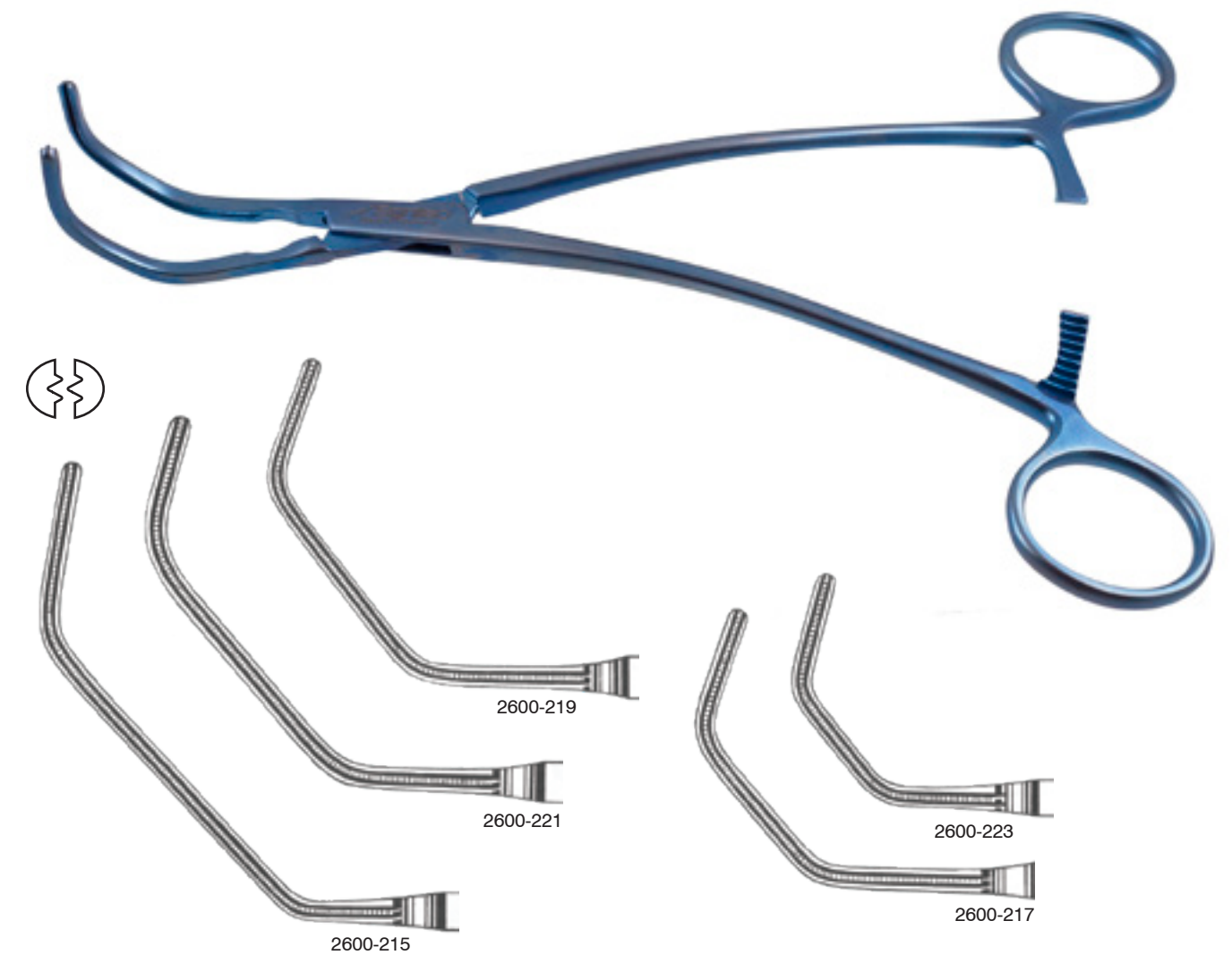
10" (25.5 cm)
2600-230 large
2600-232 medium
2600-234 small



Tangential DeBakey Clamp Titanium

Tangential occlusion clamp / double angle jaws

2600-223 7 3/4" (18.5 cm)
2600-217 9" (23 cm)
2600-219 10" (25 cm)
2600-221 10 1/4" (25.5 cm)
2600-215 10 3/4" (26.5 cm)

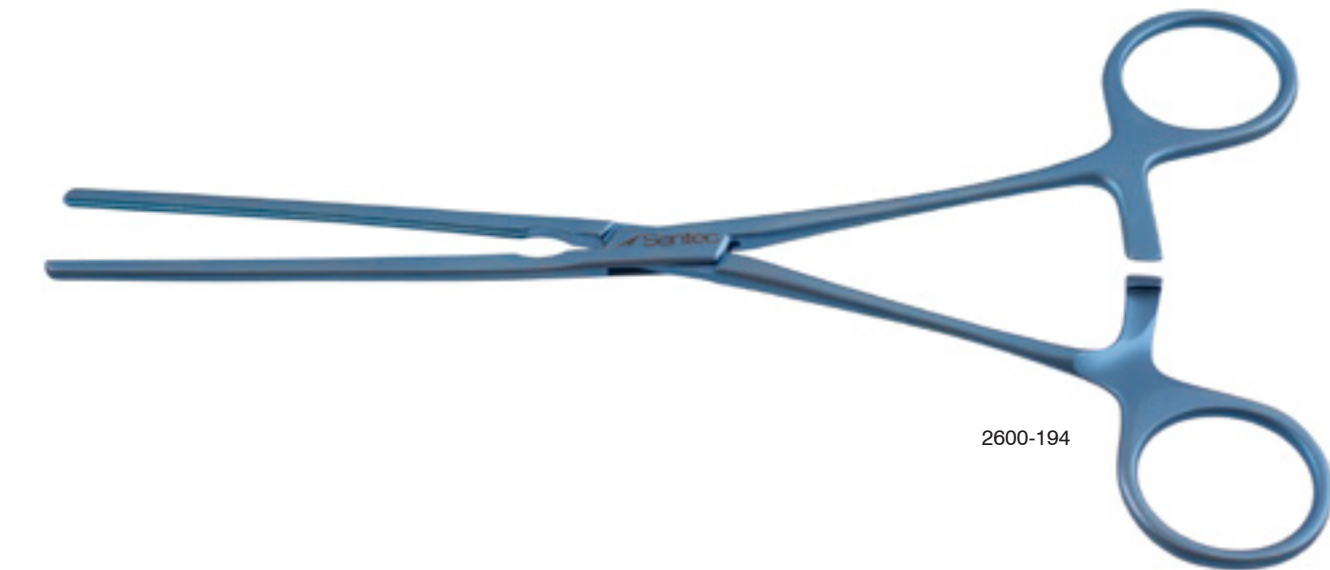


Leland Jones Debakey Vascular Clamp Titanium

2600-192	angled	8" (20 cm)
2600-194	straight	8 1/4" (21 cm)



2600-192



2600-194

Castaneda Clamp Titanium

Cooley Jaws / autraumatic

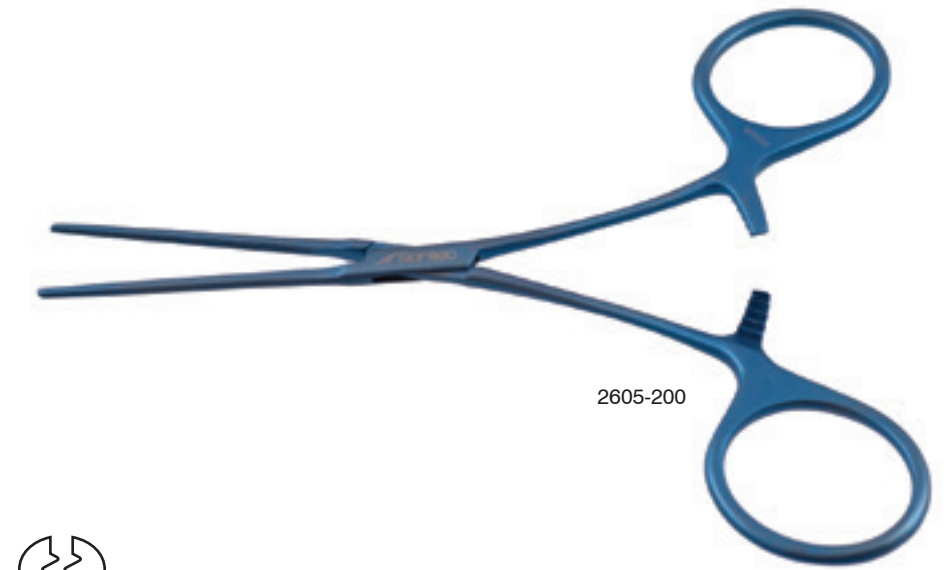
2605-200	str	5" (12.5 cm)
2605-205	30° angle	5" (12.5 cm)
2605-210	50° angle	5" (12.5 cm)
2605-215	70° angle	5" (12.5 cm)
2605-220	90° angle	5" (12.5 cm)
2605-230	semi-circle	5" (12.5 cm)
2605-235	cvd	5" (12.5 cm)
2605-250	strong curve	6" (15 cm)
2605-255	full curve	6" (15 cm)



DeBakey Jaws / autraumatic

2605-260	str	5" (12.5 cm)
2605-265	30° angle	5" (12.5 cm)
2605-270	50° angle	5" (12.5 cm)
2605-275	70° angle	5" (12.5 cm)
2605-280	90° angle	5" (12.5 cm)
2605-285	semi-circle	5" (12.5 cm)
2605-290	cvd	5" (12.5 cm)
2605-295	strong curve	6" (15 cm)
2605-300	full curve	6" (15 cm)

* special order, minimum quantities required



2605-200



Tip angles shown with Cooley tip.



straight



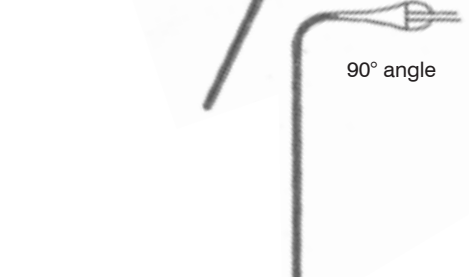
30° angle



50° angle



70° angle



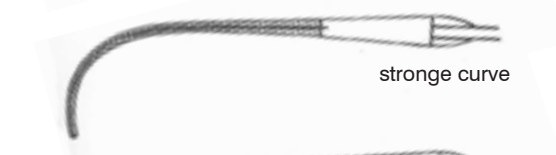
90° angle



semi-circle



curved



stronge curve

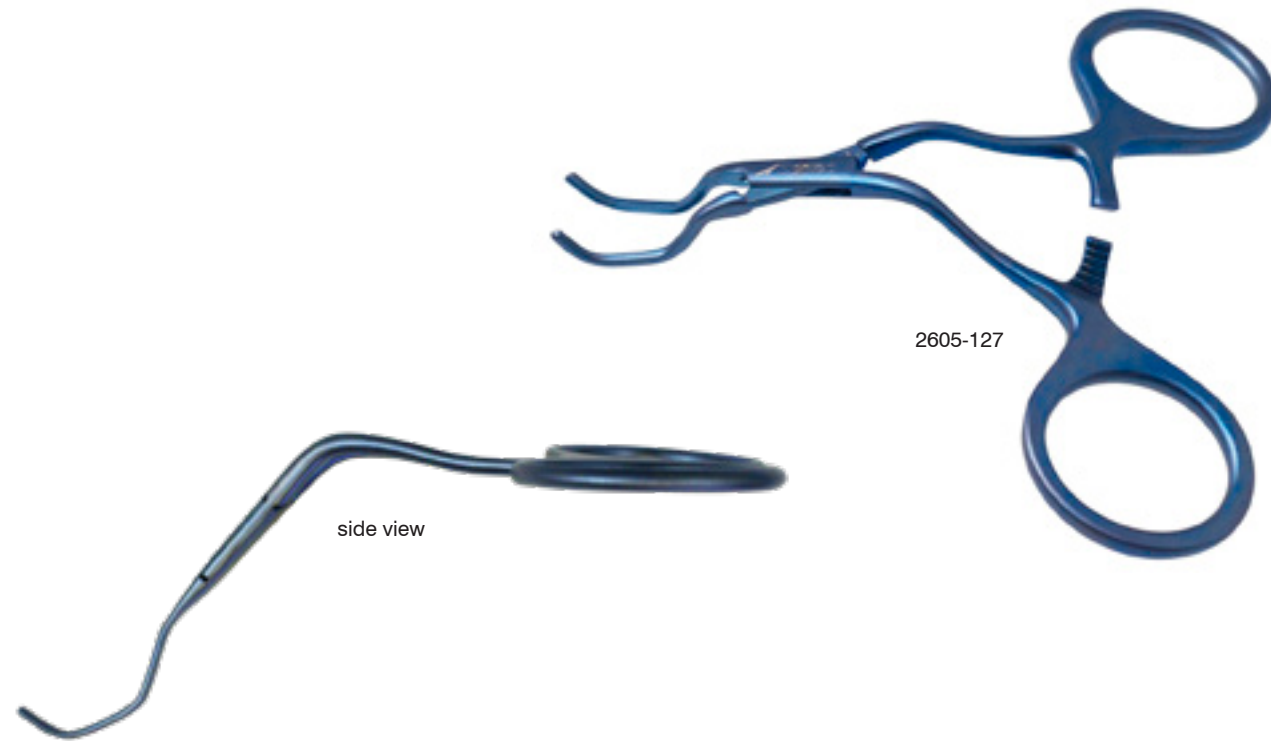


full curve

Mitchell Profunda Clamp Titanium

Serrated Castenada jaws / super fine / neonatal
size / 4" (10 cm)

2605-127



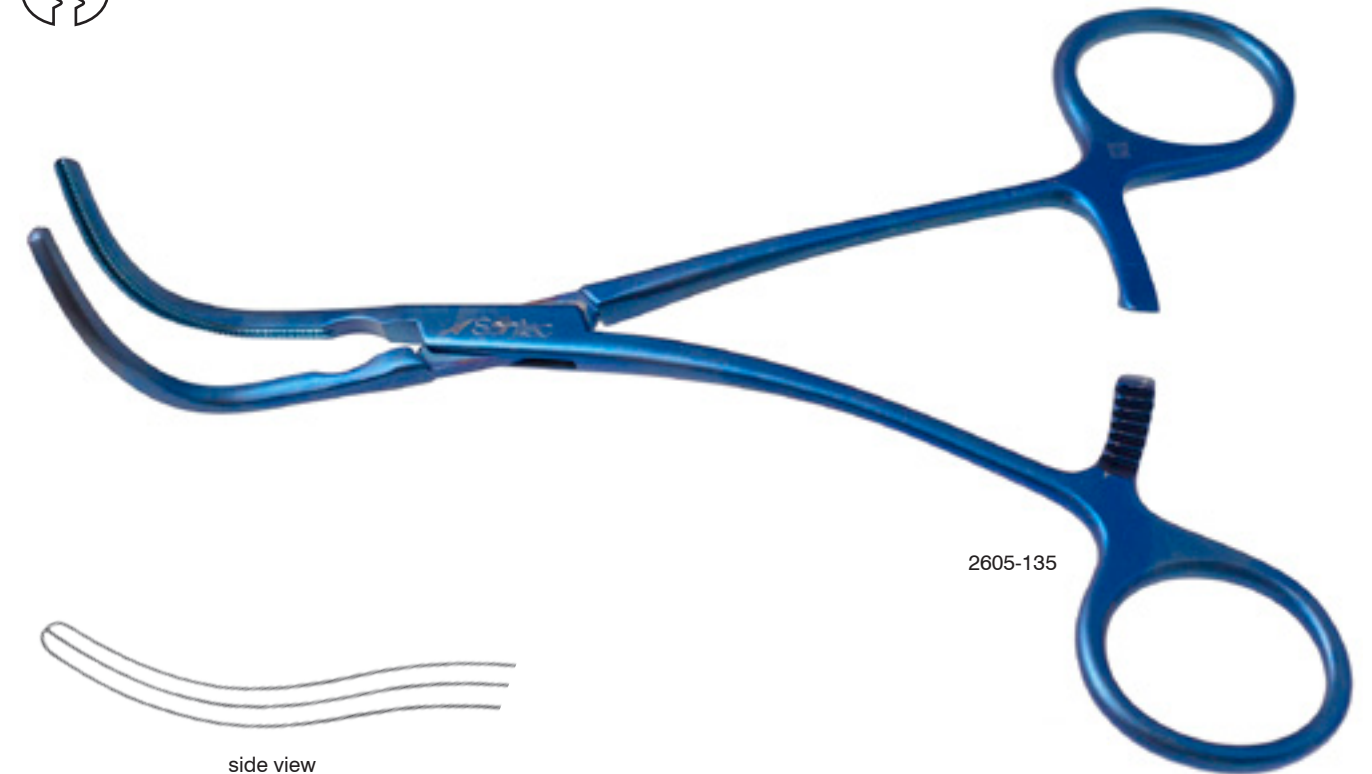
2605-127

side view

DeBakey Subramanian Sidewinder Clamp Titanium

Sidewinder Clamp / autraumatic

2605-135	pediatric	6 1/4" (16 cm)
2600-010	adult	10 1/2" (27 cm)



2605-135

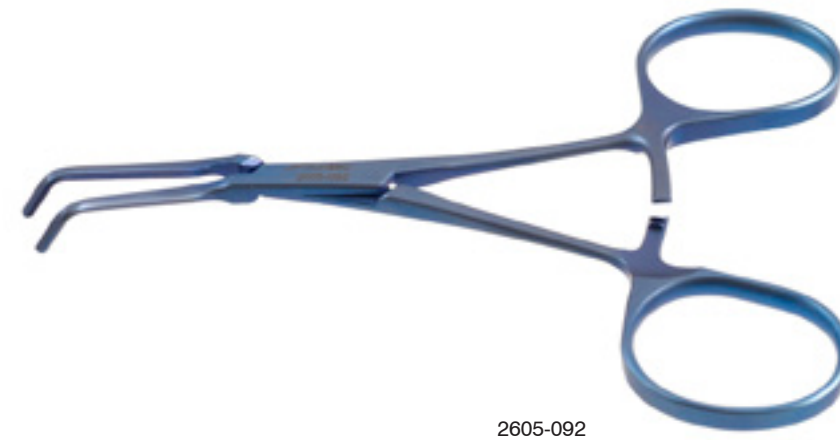
side view



Kitzmiller Clamp Titanium

4 1/2" (11.5 cm)

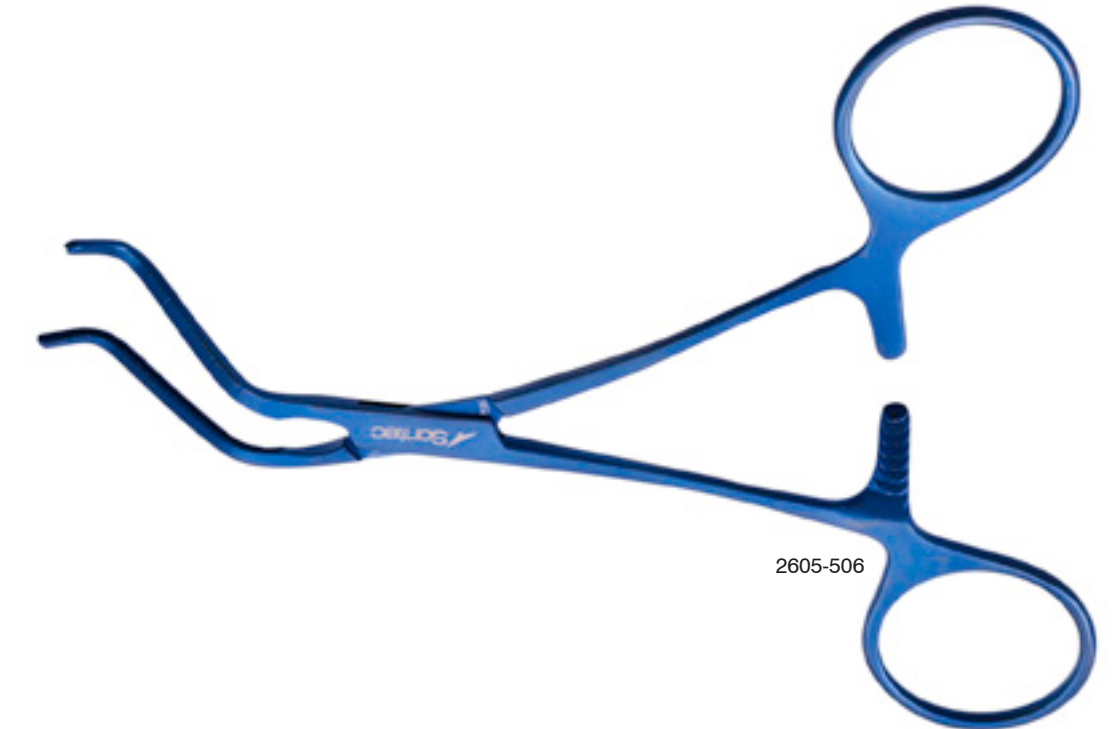
2605-090 angled left
2605-092 angled right



Kitzmiller Clamp Titanium

Carotid artery / Cooley clamp / 5 1/2" (14 cm)

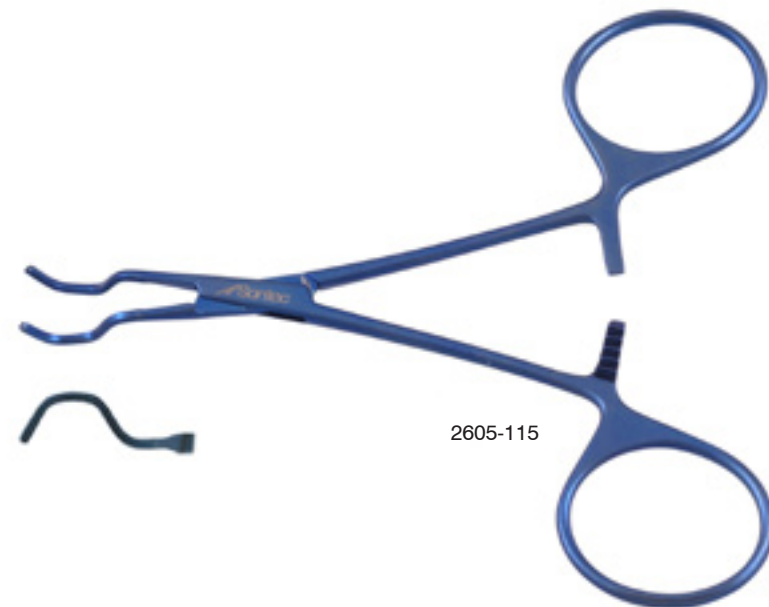
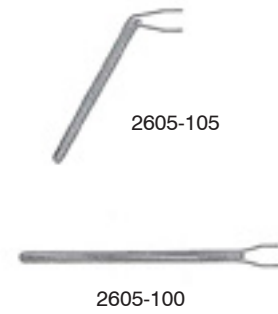
2605-507 angled left
2605-506 angled right



Debakey Neonatal Micro Vascular Clamp Titanium

Atraumatic Jaws / 4 1/8" (10 cm)

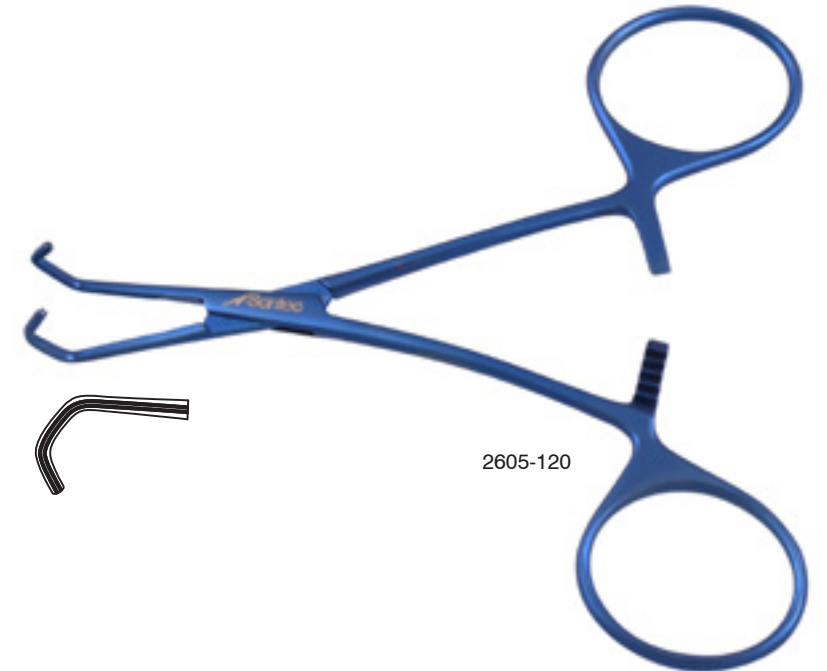
2605-100	str jaw	angle shank	
2605-105	angle jaw	standard	
2605-110	double angled jaw	slightly angle shank	14 mm jaw
2605-111	double angled jaw	slightly angle shank	22 mm jaw
2605-115	spoon jaw	standard	14 mm jaw
2605-116	spoon jaw	standard	26 mm jaw



Debakey Neonatal Micro Vascular Clamp Titanium

Atraumatic Jaws / 4 1/8" (10 cm)

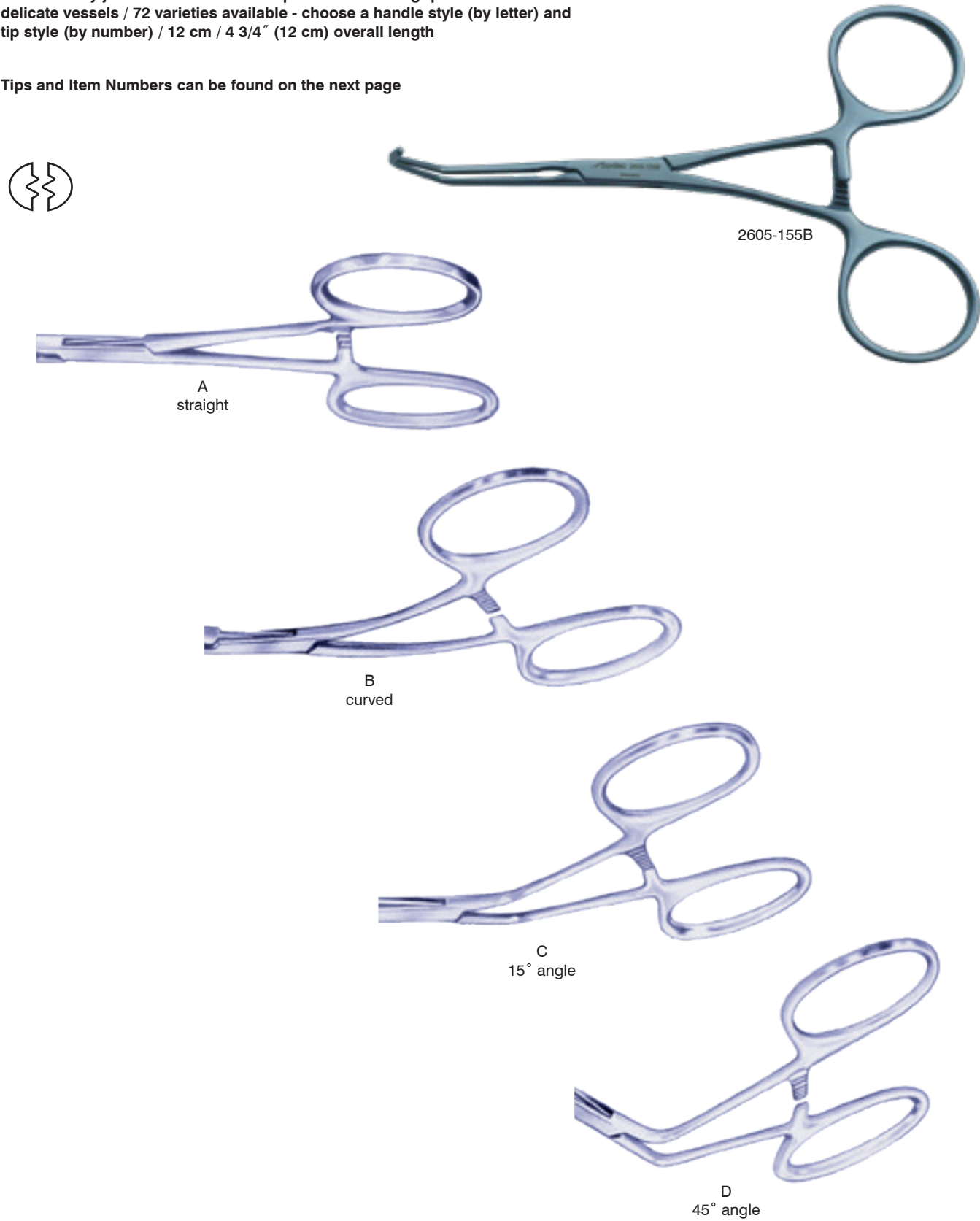
2605-120	double angled jaw	slightly angle shank	16 mm jaw
2605-121	double angled jaw	slightly angle shank	20 mm jaw
2605-125	40° jaw	standard	



DeBakey Neonatal Cardiovascular Clamp Titanium

Especially developed for delicate cardiovascular and neonatal surgery/ Ultra fine DeBakey jaws are atraumatic and provide a secure grip to even the most delicate vessels / 72 varieties available - choose a handle style (by letter) and tip style (by number) / 12 cm / 4 3/4" (12 cm) overall length

Tips and Item Numbers can be found on the next page



DeBakey Neonatal Cardiovascular Clamp Titanium

4 3/4" (12 cm) overall length

Handle Style	Straight	30 degree	45 degree	60 degree	90 degree
A	2605-150A	2605-151A	2605-152A	2605-153A	2605-154A
B	2605-150B	2605-151B	2605-152B	2605-153B	2605-154B
C	2605-150C	2605-151C	2605-152C	2605-153C	2605-154C
D	2605-150D	2605-151D	2605-152D	2605-153D	2605-154D

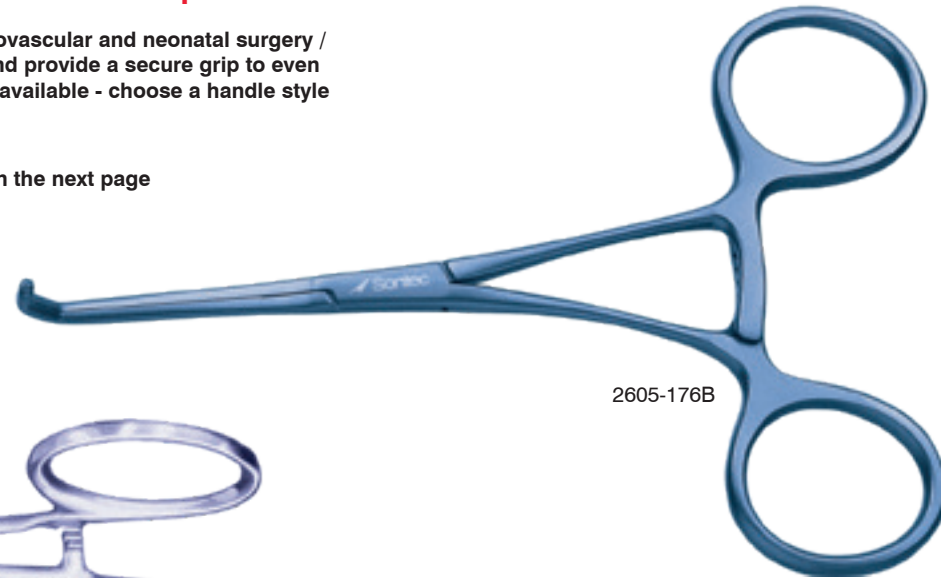
Handle Style	45D double angle	65D small double angle	65D long double angle	Reverse double angle	90D small double angle	90D long double angle
A	2605-155A	2605-156A	2605-157A	2605-158A	2605-159A	2605-160A
B	2605-155B	2605-156B	2605-157B	2605-158B	2605-159B	2605-160B
C	2605-155C	2605-156C	2605-157C	2605-158C	2605-159C	2605-160C
D	2605-155D	2605-156D	2605-157D	2605-158D	2605-159D	2605-160D

Handle Style	45D reverse angle	50D reverse angle	Medium full curve	Small full curve	Large full curve	Curved angle	Spoon
A	2605-161A	2605-162A	2605-163A	2605-164A	2605-165A	2605-166A	2605-167A
B	2605-161B	2605-162B	2605-163B	2605-164B	2605-165B	2605-166B	2605-167B
C	2605-161C	2605-162C	2605-163C	2605-164C	2605-165C	2605-166C	2605-167C
D	2605-161D	2605-162D	2605-163D	2605-164D	2605-165D	2605-166D	2605-167D

Cooley Neonatal Cardiovascular Clamp Titanium

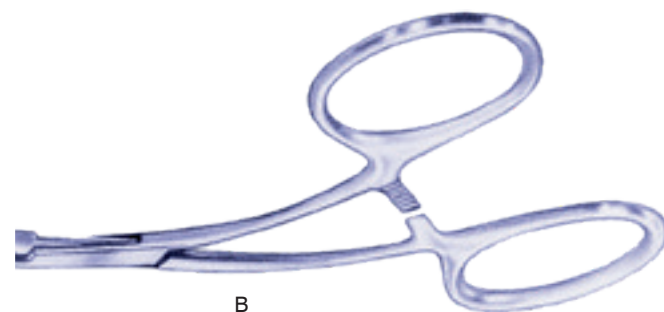
Especially developed for delicate cardiovascular and neonatal surgery / Ultra fine Cooley jaws are atraumatic and provide a secure grip to even the most delicate vessels / 72 varieties available - choose a handle style (by letter) and tip style (by number)

Tips and Item Numbers can be found on the next page



2605-176B

A
straight



B
curved



C
15° angle



D
45° angle

Cooley Neonatal Cardiovascular Clamp Titanium

4 3/4" (12 cm) overall length

Handle Style	Straight	30 degree	45 degree	60 degree	90 degree
A	2605-170A	2605-171A	2605-172A	2605-173A	2605-174A
B	2605-170B	2605-171B	2605-172B	2605-173B	2605-174B
C	2605-170C	2605-171C	2605-172C	2605-173C	2605-174C
D	2605-170D	2605-171D	2605-172D	2605-173D	2605-174D

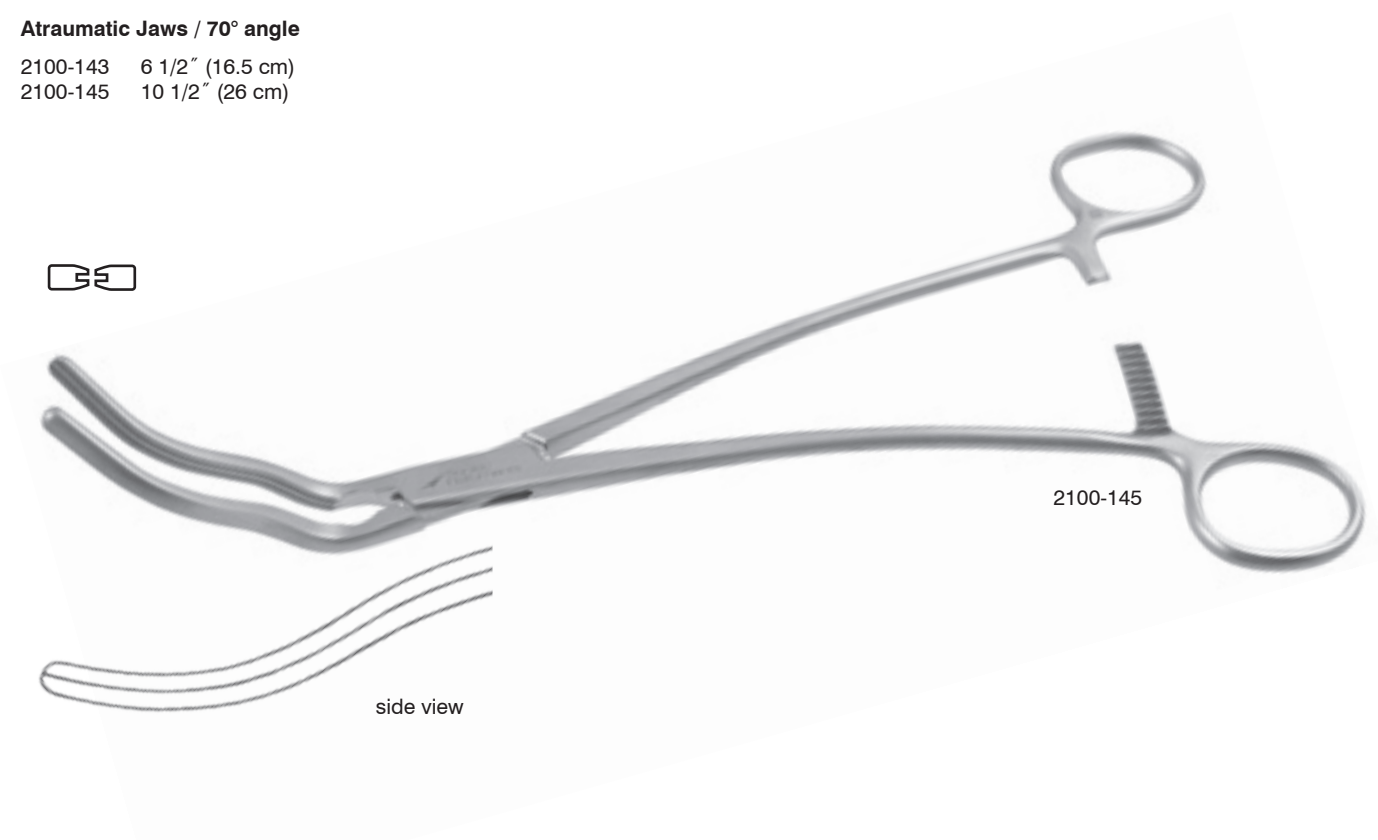
Handle Style	45D double angle	65D small double angle	65D long double angle	Reverse double angle	90D small double angle	90D long double angle
	2605-175A	2605-176A	2605-177A	2605-178A	2605-179A	2605-180A
	2605-175B	2605-176B	2605-177B	2605-178B	2605-179B	2605-180B
	2605-175C	2605-176C	2605-177C	2605-178C	2605-179C	2605-180C
	2605-175D	2605-176D	2605-177D	2605-178D	2605-179D	2605-180D

Handle Style	45D reverse angle	50D reverse angle	Medium full curve	Small full curve	Large full curve	Curved angle	Spoon
A	2605-181A	2605-182A	2605-183A	2605-184A	2605-185A	2605-186A	2605-187A
B	2605-181B	2605-182B	2605-183B	2605-184B	2605-185B	2605-186B	2605-187B
C	2605-181C	2605-182C	2605-183C	2605-184C	2605-185C	2605-186C	2605-187C
D	2605-181D	2605-182D	2605-183D	2605-184D	2605-185D	2605-186D	2605-187D

Cooley Subramanian Sidewinder Aortic Clamp

Atraumatic Jaws / 70° angle

2100-143	6 1/2" (16.5 cm)
2100-145	10 1/2" (26 cm)



Satinsky Cooley Occlusion Clamp

Double angled / atraumatic jaws / 8" (20 cm)

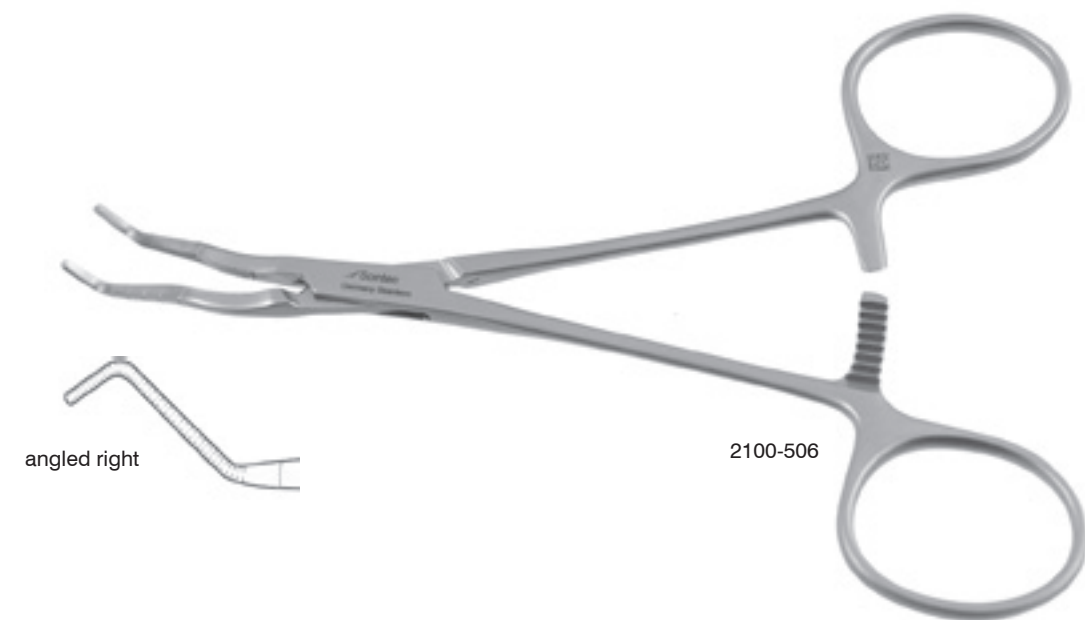
2100-268	52 mm x 12 mm
2100-270	60 mm x 12 mm
2100-272	73 mm x 12 mm



Cooley-Kitzmiller Carotid Artery Clamp

Cup-shaped Jaws / 5 1/2" (14 cm)

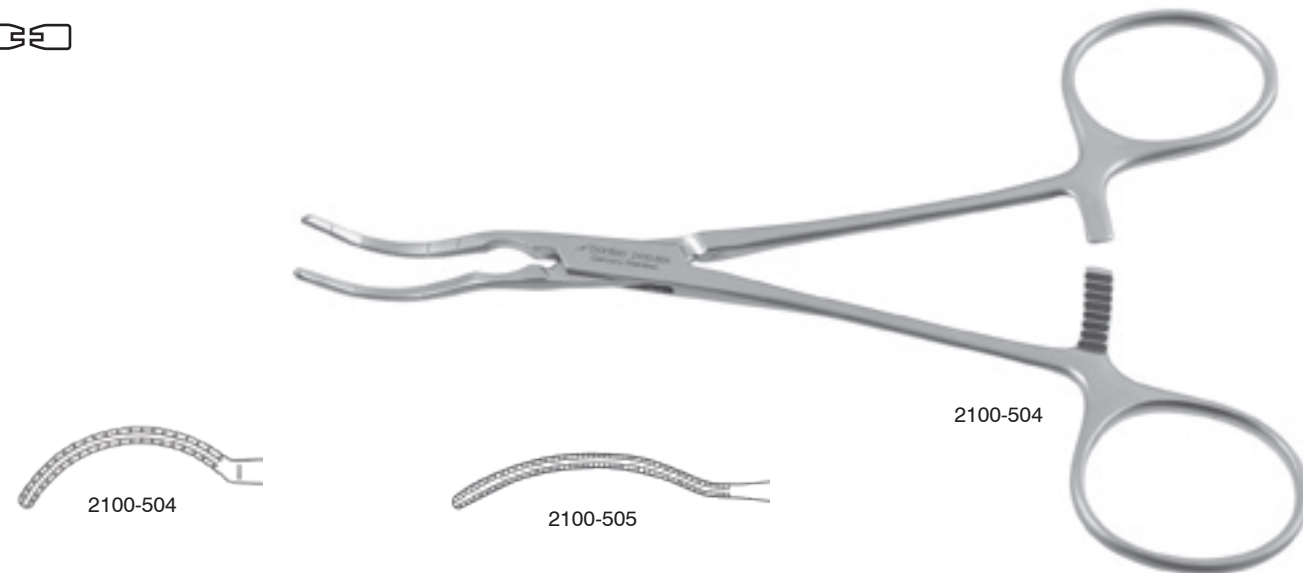
2100-506	angled right
2100-507	angled left



Cooley Spoon Clamp

Spoon Jaws / 5 1/2" (14 cm)

2100-504 full spoon
2100-505 slight spoon



Cooley Pediatric Vascular Clamp

Very delicate atraumatic jaws / 90° angle

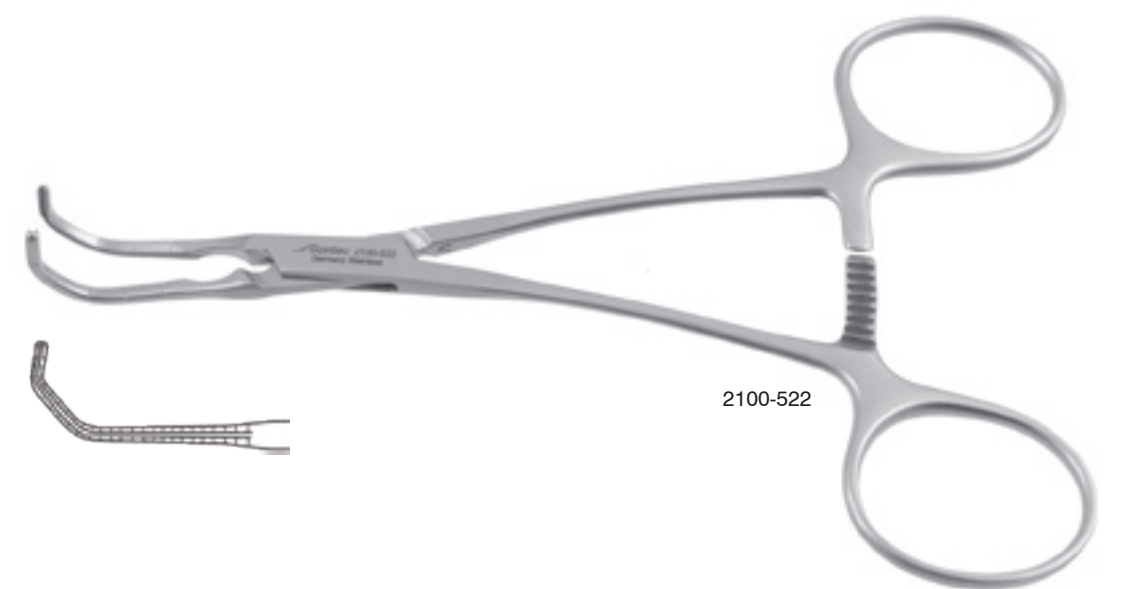
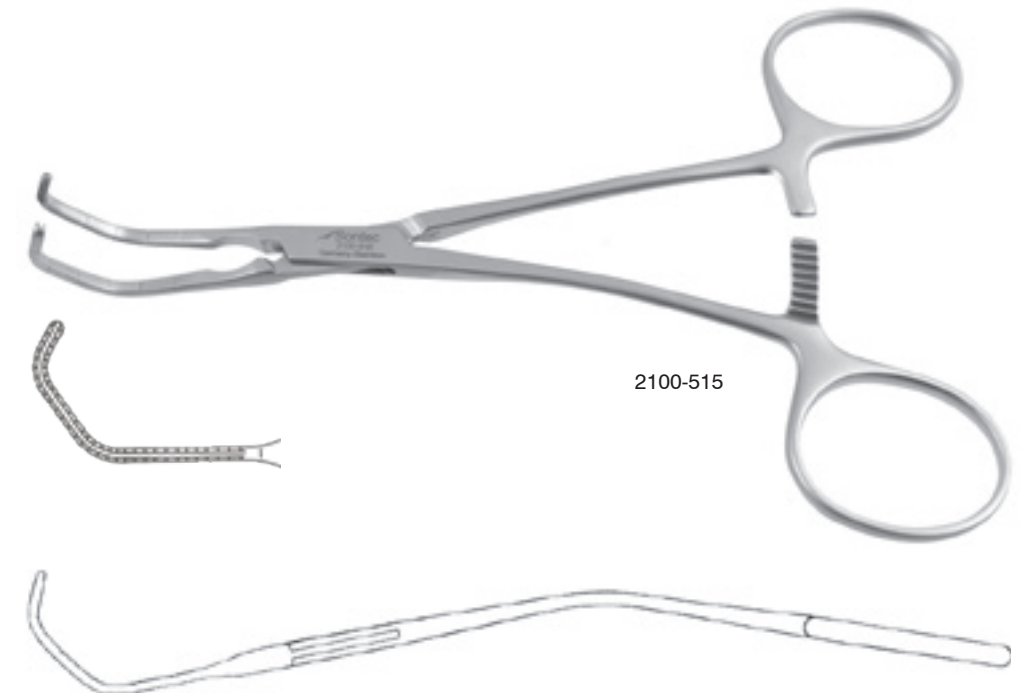
2100-512 4 1/2" (11.5 cm)
2100-514 4 3/4" (12 cm)
2100-516 5" (12.5 cm)



Cooley Pediatric Vascular Clamp

Very delicate / double angled / atraumatic jaws / 5 1/2" (14 cm)

2100-515
2100-522 x-small

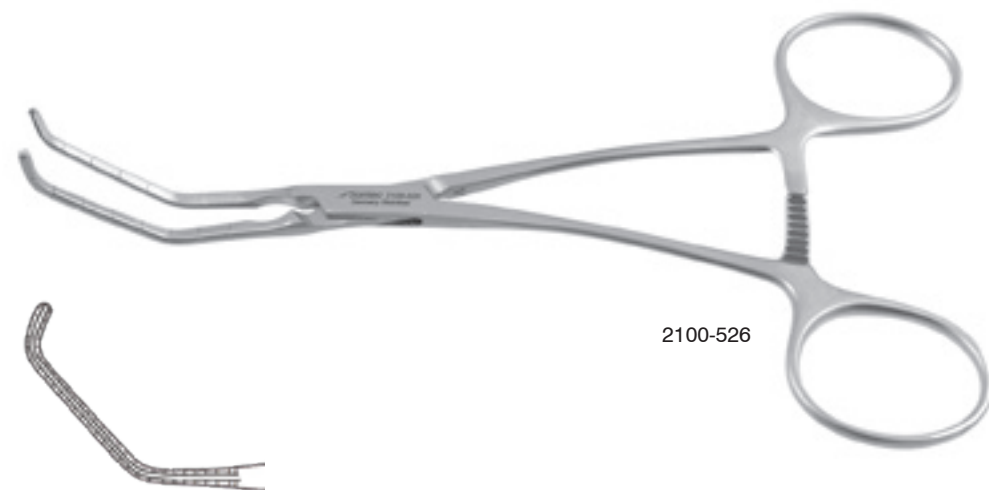
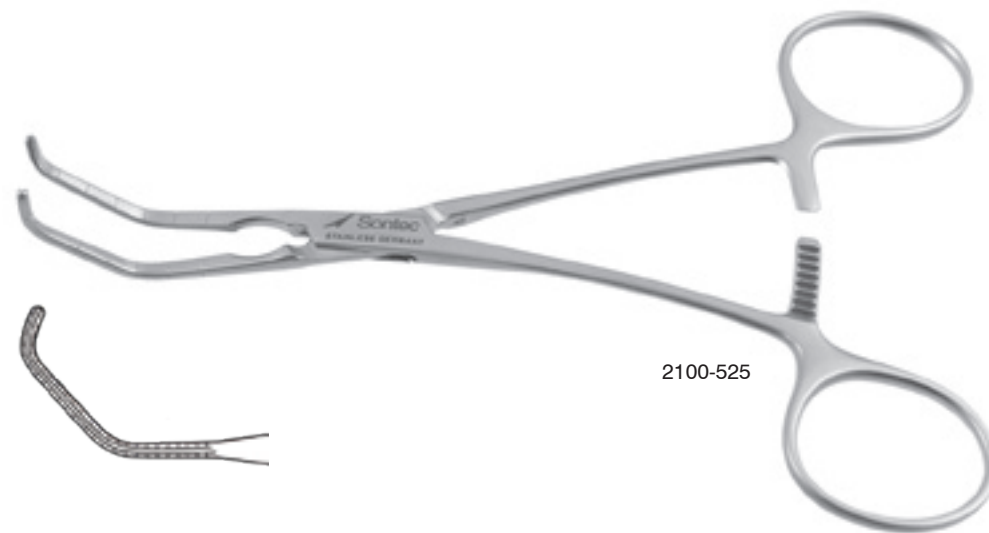


Cooley Pediatric Vascular Clamp

Very delicate / double angled / atraumatic jaws / 5 1/4" (13.3 cm)

2100-525 16 mm
2100-526 20 mm

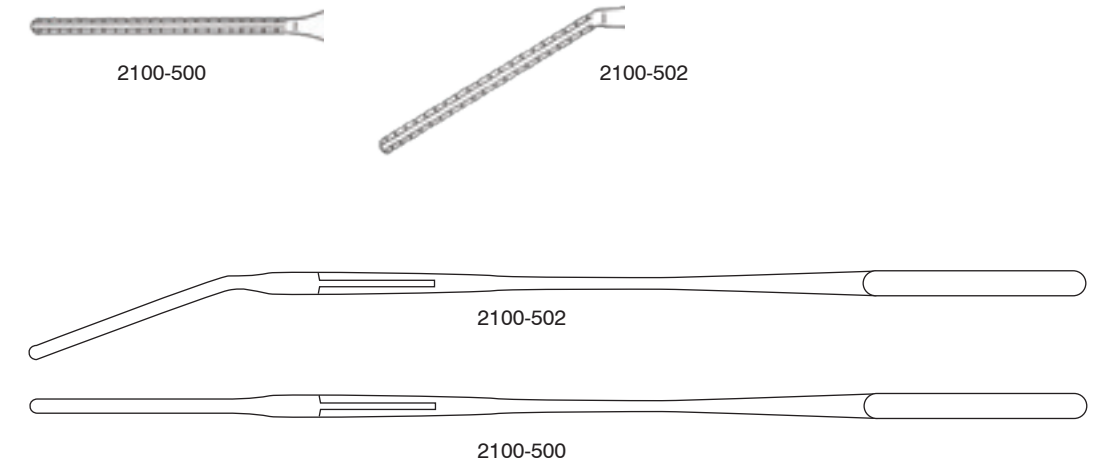
* Available as a nesting set of four- contact Sontec for more information



Cooley Pediatric Vascular Clamp

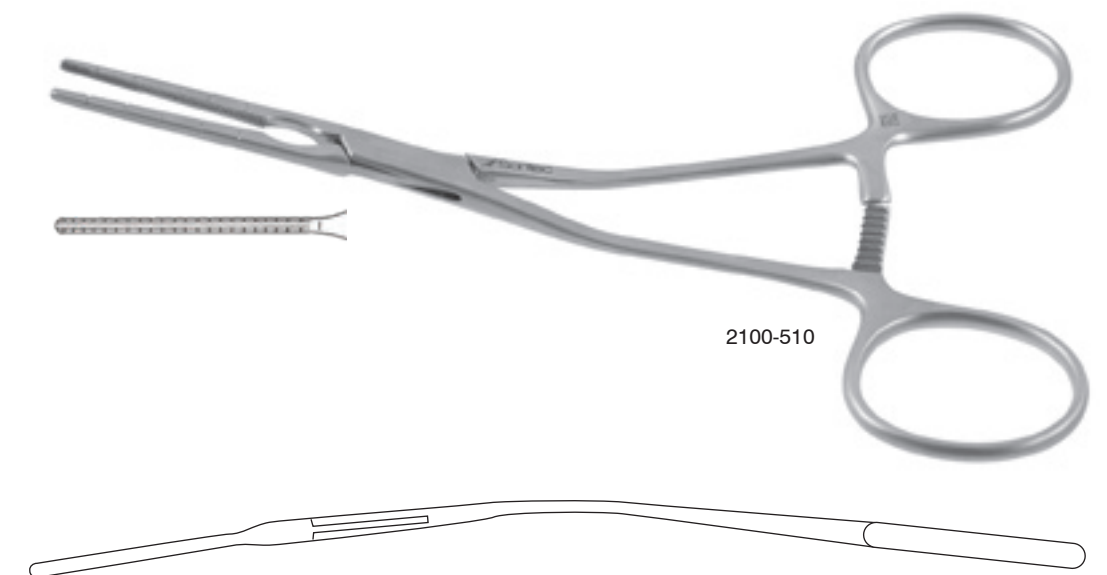
Very delicate atraumatic jaws / 5 mm Calibration on Outer Sides of Jaws / 5 1/2" (14 cm)

2100-500 str jaws
2100-502 angled jaws



Very Delicate / atraumatic jaws / angled shank / 5 1/2" (14 cm)

2100-510



Glover-Cooley Bulldog Clamp

Atraumatic Jaws / straight / spring loaded

2100-400	3 1/8" (8 cm)
2100-405	3 1/2" (9 cm)
2100-410	4 1/4" (10.75 cm)
2100-415	4 3/4" (12 cm)



2100-400



2100-405



2100-410



2100-415



2100-405

Atraumatic Jaws / curved / spring loaded

2100-402	3" (7.5 cm)
2100-407	3 1/8" (8 cm)
2100-412	3 3/4" (9.5 cm)
2100-417	4 1/2" (11.5 cm)



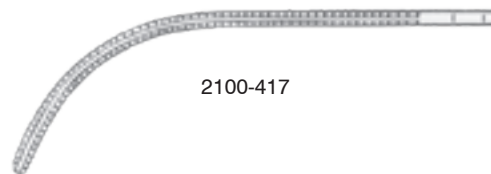
2100-402



2100-407



2100-412



2100-417



2100-412

Mini Glover (Weldon) Bulldog Clamp

* Also known as Jacobson / serrated jaws / 1 1/8" (3 cm) / spring loaded

2100-450	straight jaw
2100-452	curved jaw
2100-453	angled jaw
2100-454	125° reverse jaw



2100-450



2100-452



2100-453



2100-454



2100-450



2100-452

Micro Sontec® Vena Clava Satinsky-Glover Bulldog Clamp

Atraumatic Jaws / double angle / 2 1/2" (6.5 cm) / spring loaded

2100-464



2100-464

Glover-Debakey Bulldog Clamp

Atraumatic Jaws / straight / spring loaded

2100-460	2" (5 cm)
2100-459	2 3/4" (7 cm)
2100-457	3 3/8" (8 cm)
2100-455	5" (12.5 cm)



2100-460



2100-459



2100-457



2100-455



2100-460



2100-459

Atraumatic jaws / curved / spring loaded

2100-462	2" (5 cm)
2100-461	2 3/4" (7 cm)
2100-458	3 1/8" (8 cm)
2100-456	4 5/8" (11 cm)



2100-462



2100-461



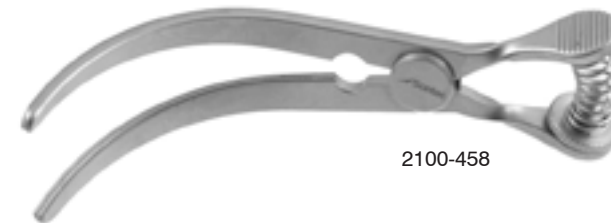
2100-458



2100-456



2100-461



2100-458

Micro Sontec® Yasargil-Glover Carotid Artery Bulldog Clamp

Atraumatic jaws / reverse 65° angle / 3" (7.5 cm) / spring loaded

2100-466



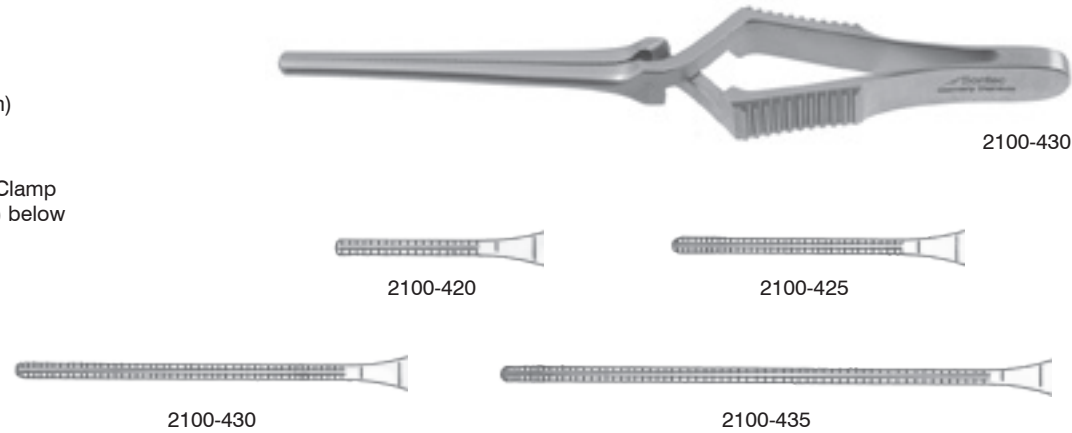
2100-466

Cooley Bulldog Clamp

Atraumatic jaws / straight / cross-action

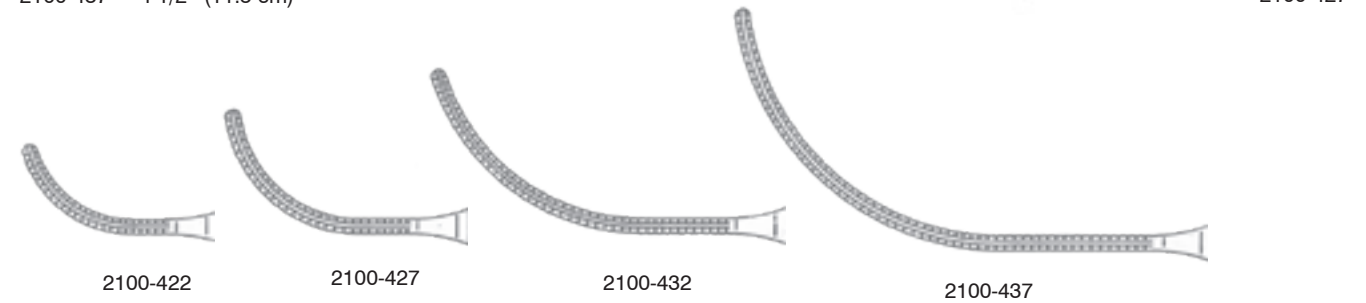
2100-420	3 1/8" (8 cm)
2100-425	3 1/2" (9 cm)
2100-430	4 1/4" (10.75 cm)
2100-435	5" (12.5 cm)

* Can be used with Bulldog Clamp Applying Forceps (2100-399) below

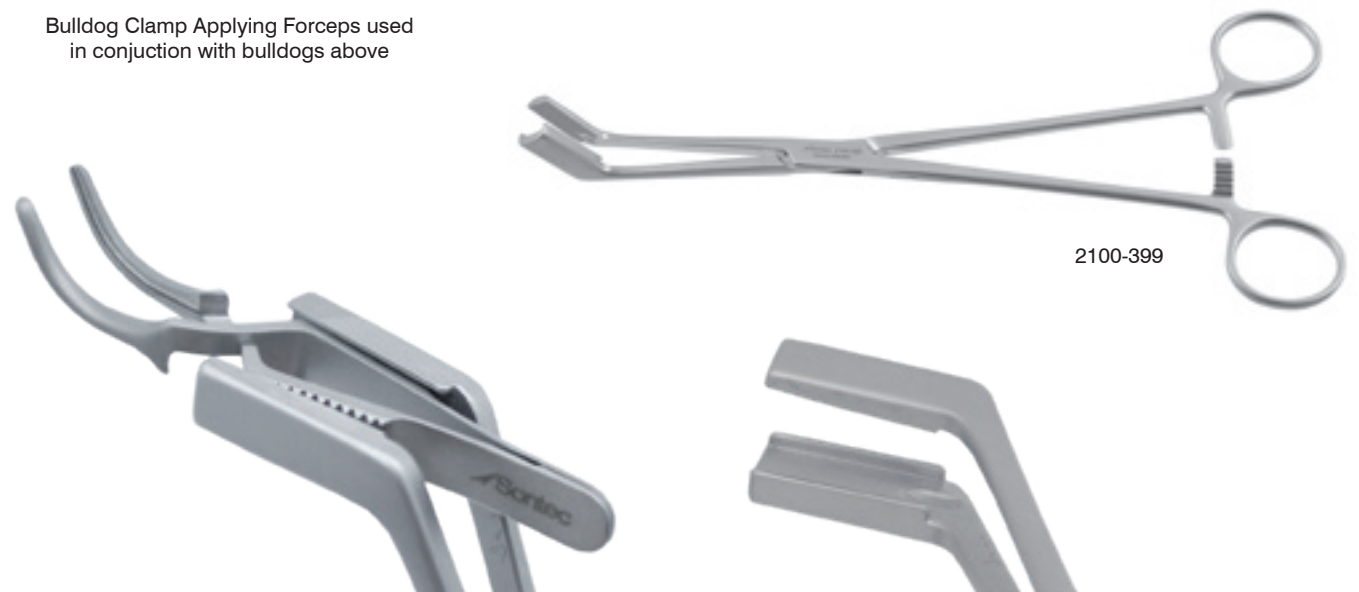


Atraumatic jaws / curved / cross-action

2100-422	3" (7.5 cm)
2100-427	3 3/8" (8 cm)
2100-432	3 3/4" (9.5 cm)
2100-437	4 1/2" (11.5 cm)



Bulldog Clamp Applying Forceps used in conjunction with bulldogs above

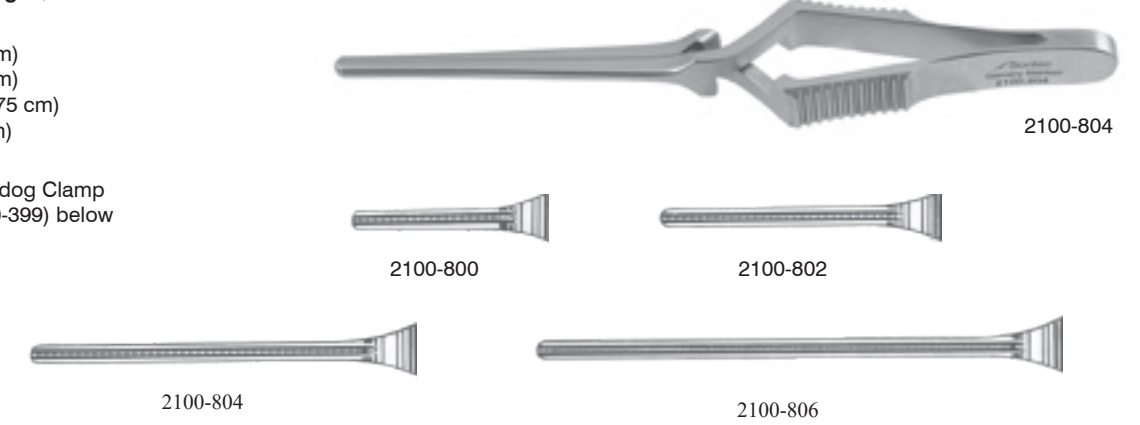


DeBakey Bulldog Clamp

Atraumatic Jaws / straight / cross-action

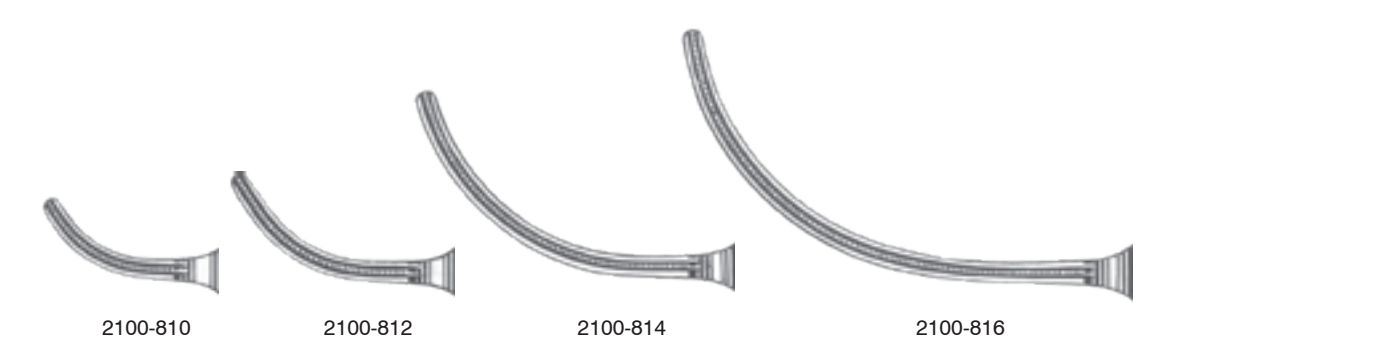
2100-800	3 1/8" (8 cm)
2100-802	3 1/2" (9 cm)
2100-804	4 1/4" (10.75 cm)
2100-806	5" (12.5 cm)

* Can be used with Bulldog Clamp Applying Forceps (2100-399) below

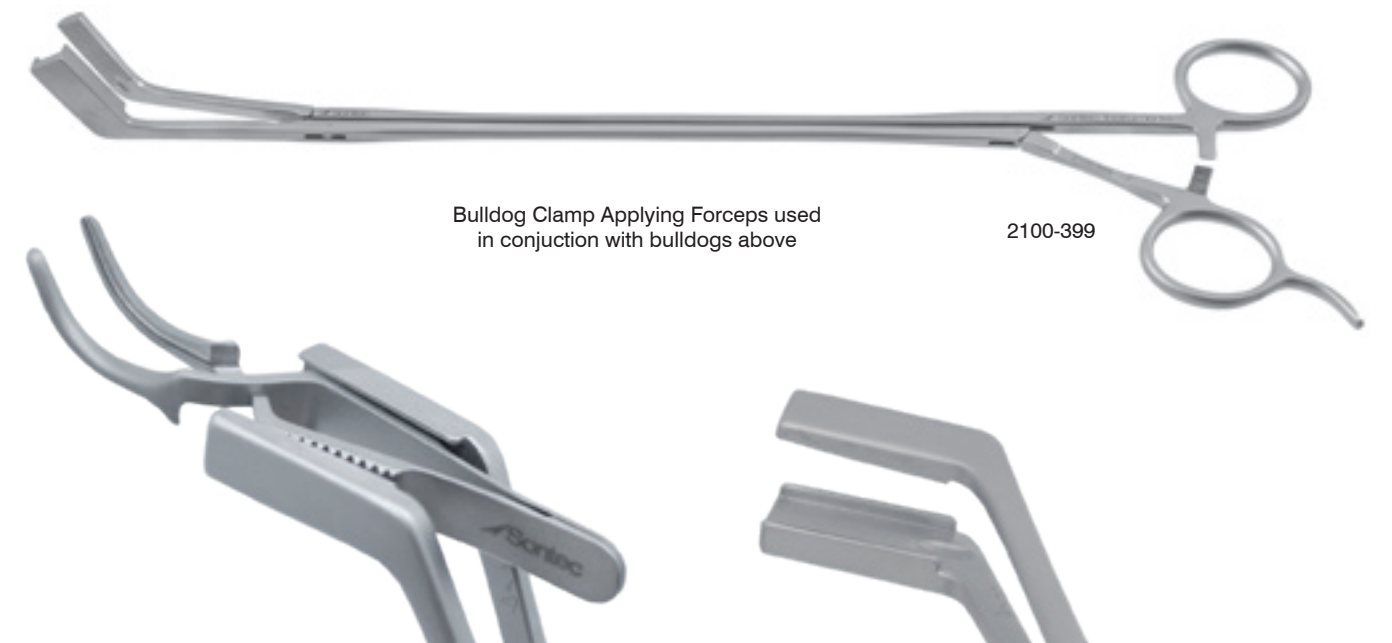


Atraumatic Jaws / curved / cross-action

2100-810	3" (7.5 cm)
2100-812	3 1/8" (8 cm)
2100-814	3 3/4" (9.5 cm)
2100-816	4 1/2" (11.5 cm)



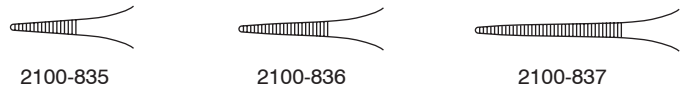
Bulldog Clamp Applying Forceps used in conjunction with bulldogs above



Dietrich Micro Bulldog Clamp

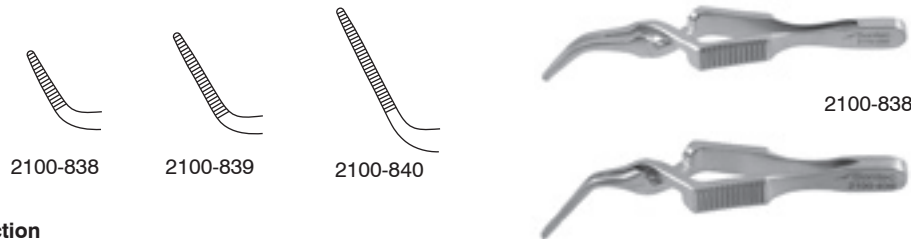
Serrated jaw / straight / 2" (5 cm) / cross-action

- 2100-835 8 mm jaw length
- 2100-836 12 mm jaw length
- 2100-837 20 mm jaw length



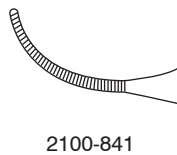
Serrated jaw / angled / 2" (5 cm) / cross-action

- 2100-838 8 mm jaw length
- 2100-839 12 mm jaw length
- 2100-840 20 mm jaw length



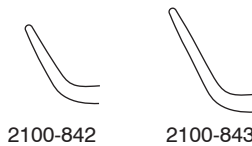
Serrated jaw / curved / 2" (5 cm) / cross-action

- 2100-841 20 mm jaw length



Smooth jaw / angled / 2" (5 cm) / cross-action

- 2100-842 13 mm jaw length
- 2100-843 18 mm jaw length



Universal Microvascular Clamp

For ordering:use order numbers listed below
/ also available in black / choose either A for Artery or V for Vein

	Clamp #1	Clamp #2	Clamp #3	Clamp #4	Clamp #5
Length	8 mm	11 mm	16 mm	24 mm	35 mm
Pair of Clamps					
Vessel	0.3-1.0 mm	0.6-1.5 mm	1.0-2.5 mm	1.5-3.3 mm	2.0-5.0 mm
Designation	B-1	B-2	B-3	HD-S	RD-S
Order Number	2100-B-1A 2100-B-1V	2100-B-2A 2100-B-2V	2100-B-3A 2100-B-3V	2100-HD-SA 2100-HD-SV	2100-RD-SA 2100-RD-SV

Microvascular Clamp

For ordering:use order numbers listed below / also
available in black / choose either A for Artery or V for Vein

	Clamp #1	Clamp #2	Clamp #3	Clamp #4	Clamp #5
Length	8 mm	11 mm	16 mm	24 mm	35 mm
Microvascular clamp pair on approximator bar					
Vessel	0.3-1.0 mm	0.6-1.4 mm	1.0-2.25 mm	1.5-3.5 mm	2.0-5.0 mm
Designation	ABB-11	ABB-22	ABB-33	HD-D	RD-D
Order Number	2100-ABB-11A 2100-ABB-11v	2100-ABB-22A 2100-ABB-22V	2100-ABB-33A 2100-ABB-33V	2100-HD-DA 2100-HD-DV	2100-RD-DA 2100-RD-DV
Microvascular clamp pair on approximator bar in frame				All Microvascular Clamps are available in black. To order black clamps, please add a "B" after the order number	
Vessel	0.4-1.0 mm	0.6-1.4mm	1.0-2.2 mm		
Designation	ABB-1	ABB-2	ABB-3		
Order Number	2100-ABB-1A 2100-ABB-1V	2100-ABB-2A 2100-ABB-2V	2100-ABB-3A 2100-ABB-3V		
Microvascular clamp pair in wire frame					
Vessel	0.3-1.0 mm	0.6-1.4 mm	1.0-2.2 mm		
Designation	DC-1	DC-2	DC-3		
Order Number	2100-DC-1A 2100-DC-1V	2100-DC-2A 2100-DC-2V	2100-DC-3A 2100-DC-3V		
Microvascular clamp pair DC Angle					
Vessel	0.3-1.0 mm	0.6-1.4 mm	1.0-2.2 mm		
Designation	DC-1	DC-2	DC-3		
Order Number	2100-DC-1A 2100-DC-1V	2100-DC-2A 2100-DC-2V	2100-DC-3A 2100-DC-3V		

Micro Aneurysm Clamp Applier Forceps

5 1/2" (14 cm)

2100-875



2100-875

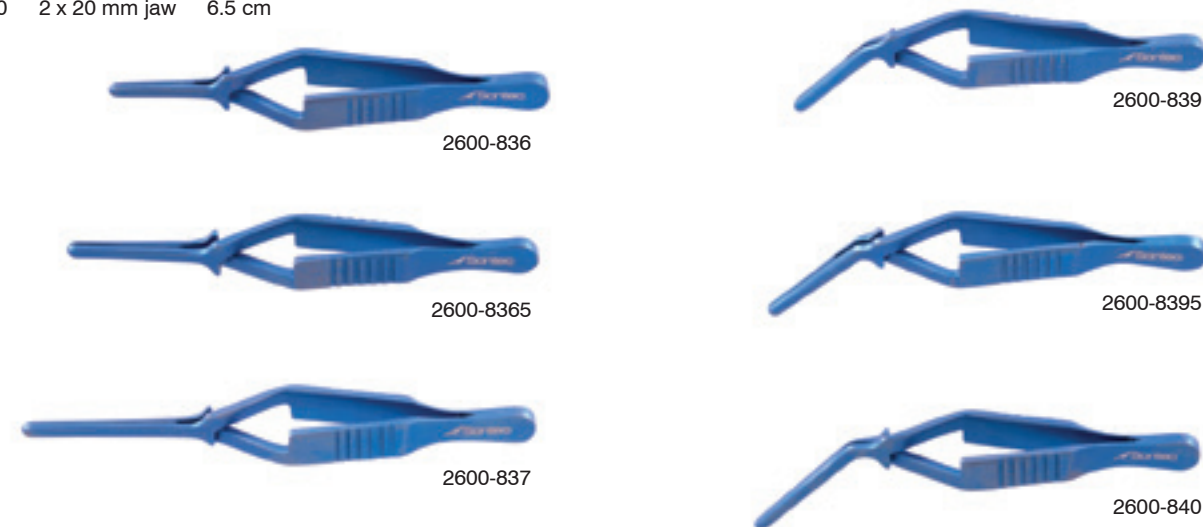
Dietrich Bulldog Clamp Titanium

Serrated tip / cross-action / straight

2600-836	2 x 11 mm jaw	5.5 cm
2600-8365	2 x 15 mm jaw	6.1 cm
2600-837	2 x 20 mm jaw	6.9 cm

Serrated tip / cross-action / angled

2600-839	2 x 11 mm jaw	5.5 cm
2600-8395	2 x 15 mm jaw	5.7 cm
2600-840	2 x 20 mm jaw	6.5 cm



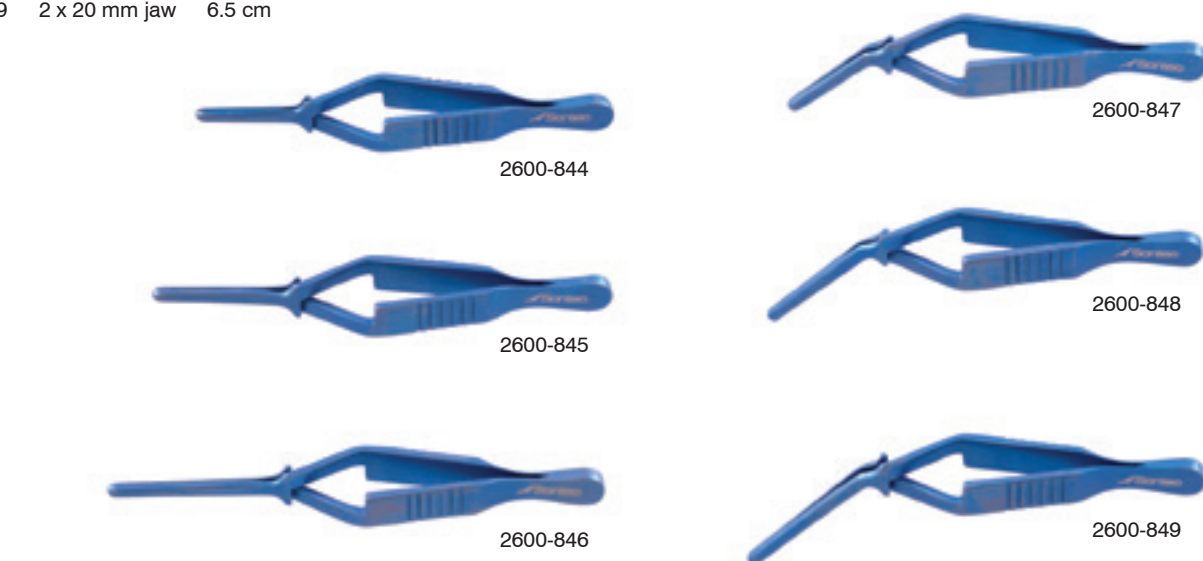
DeBakey-Dietrich Bulldog Clamp Titanium

Atraumatic tip / cross-action / straight

2600-844	2 x 11 mm jaw	5.5 cm
2600-845	2 x 15 mm jaw	6.1 cm
2600-846	2 x 20 mm jaw	6.9 cm

Atraumatic tip / cross-action / angled

2600-847	2 x 11 mm jaw	5.5 cm
2600-848	2 x 15 mm jaw	5.7 cm
2600-849	2 x 20 mm jaw	6.5 cm



Serrefine Bulldog Clamp

1 1/2" (4 cm) / cross-action

14-9935	straight
14-9940	curved

2 1/2" (6.4 cm) / cross-action

115-585	straight
115-586	curved



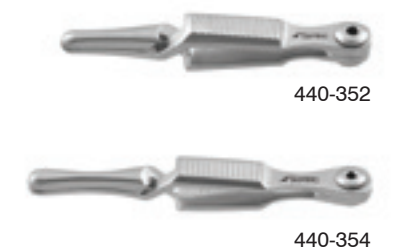
John Hopkins Bulldog Clamp

Straight / cross-action

440-352	1 1/2"
440-354	2"
440-356	2 1/4"
440-358	2 1/2"
440-360	2 3/4"
440-362	3"
440-364	3 1/2"

Curved / cross-action

440-370	1 1/2"
440-372	2"
440-374	2 1/4"
440-376	2 1/2"
440-378	2 3/4"
440-380	3"
440-382	3 1/2"



Bulldog Clamp Applying Forceps

Holds Bulldog Clamp / 10 1/4" (25.5 cm)

2100-399

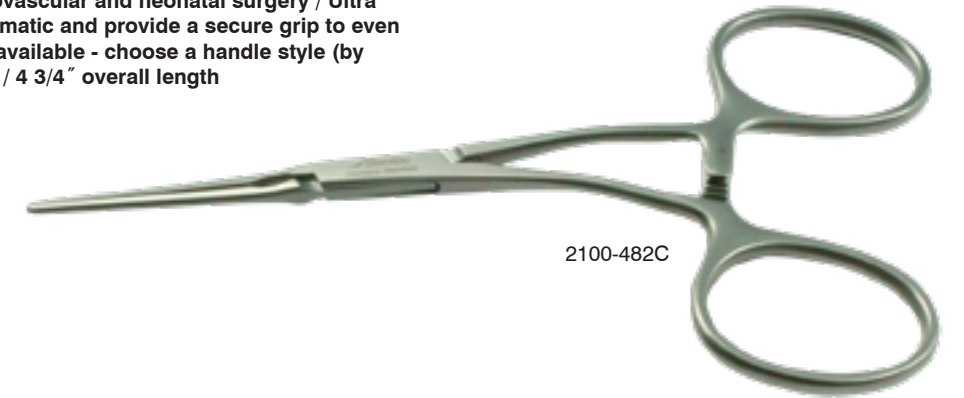


2100-399

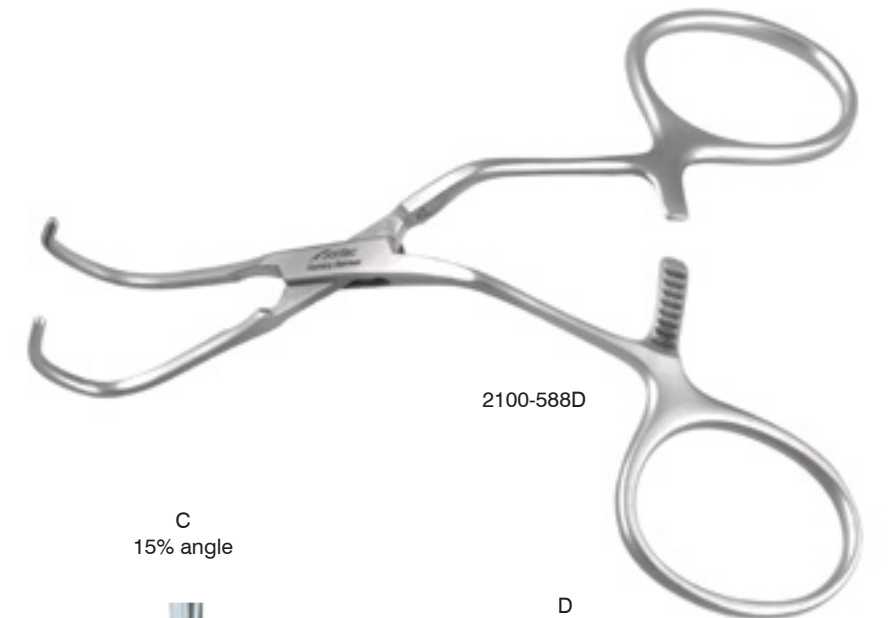


Cooley and Debakey Neonatal Cardiovascular Clamp

Especially developed for delicate cardiovascular and neonatal surgery / Ultra fine Cooley and Debakey jaws are atraumatic and provide a secure grip to even the most delicate vessels / 72 varieties available - choose a handle style (by letter) and tip style (by number) / 12 cm / 4 3/4" overall length



2100-482C



2100-588D

A
straight

B
curved

C
15% angle

D
45% angle



Cooley Neonatal Cardiovascular Clamp

Atraumatic jaws / 4 3/4" (12 cm)



Handle Style	Straight	30 degree	45 degree	60 degree	90 degree
A	2100-482A	2100-483A	2100-484A	2100-485A	2100-486A
B	2100-482B	2100-483B	2100-484B	2100-485B	2100-486B
C	2100-482C	2100-483C	2100-484C	2100-485C	2100-486C
D	2100-482D	2100-483D	2100-484D	2100-485D	2100-486D

Handle Style	45D double angle	65D small double angle	65D long double angle	Reverse double angle	90D small double angle	90D long double angle
A	2100-487A	2100-488A	2100-489A	2100-490A	2100-491A	2100-492A
B	2100-487B	2100-488B	2100-489B	2100-490B	2100-491B	2100-492B
C	2100-487C	2100-488C	2100-489C	2100-490C	2100-491C	2100-492C
D	2100-487D	2100-488D	2100-489D	2100-490D	2100-491D	2100-492D

Handle Style	45D reverse angle	50D reverse angle	Medium full curve	Small full curve	Large full curve	Curved angle	Spoon
A	2100-493A	2100-494A	2100-495A	2100-496A	2100-497A	2100-498A	2100-499A
B	2100-493B	2100-494B	2100-495B	2100-496B	2100-497B	2100-498B	2100-499B
C	2100-493C	2100-494C	2100-495C	2100-496C	2100-497C	2100-498C	2100-499C
D	2100-493D	2100-494D	2100-495D	2100-496D	2100-497D	2100-498D	2100-499D

Debakey Neonatal Cardiovascular Clamp

Atraumatic jaws / 4 3/4" (12 cm)



Handle Style	Straight	30 degree	45 degree	60 degree	90 degree
A	2100-575A	2100-576A	2100-577A	2100-578A	2100-579A
B	2100-575B	2100-576B	2100-577B	2100-578B	2100-579B
C	2100-575C	2100-576C	2100-577C	2100-578C	2100-579C
D	2100-575D	2100-576D	2100-577D	2100-578D	2100-579D

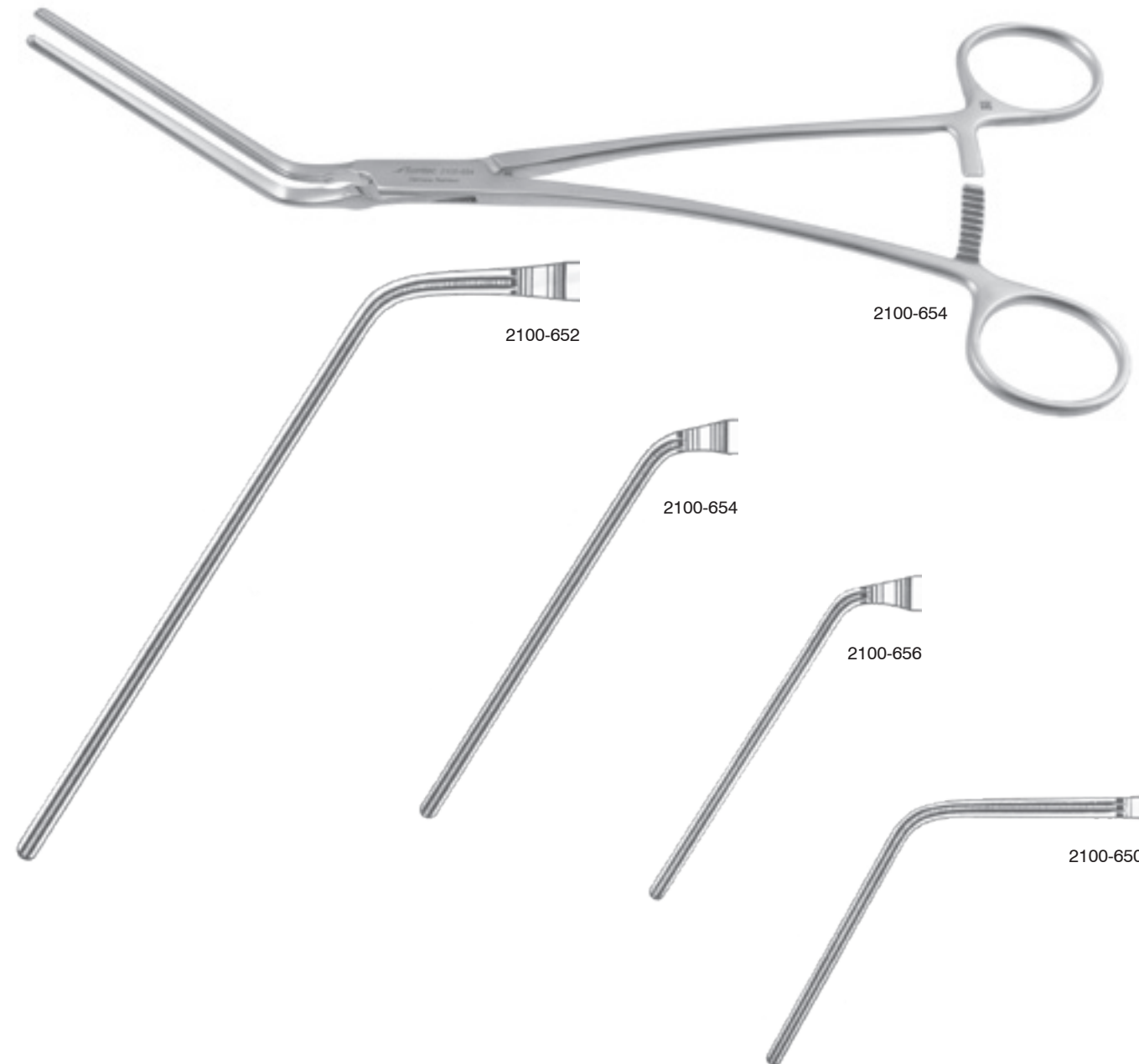
Handle Style	45D double angle	65D small double angle	65D long double angle	Reverse double angle	90D small double angle	90D long double angle
A	2100-580A	2100-581A	2100-582A	2100-583A	2100-584A	2100-585A
B	2100-580B	2100-581B	2100-582B	2100-583B	2100-584B	2100-585B
C	2100-580C	2100-581C	2100-582C	2100-583C	2100-584C	2100-585C
D	2100-580D	2100-581D	2100-582D	2100-583D	2100-584D	2100-585D

Handle Style	45D reverse angle	50D reverse angle	Medium full curve	Small full curve	Large full curve	Curved angle	Spoon
A	2100-586A	2100-587A	2100-588A	2100-589A	2100-590A	2100-591A	2100-592A
B	2100-586B	2100-587B	2100-588B	2100-589B	2100-590B	2100-591B	2100-592B
C	2100-586C	2100-587C	2100-588C	2100-589C	2100-590C	2100-591C	2100-592C
D	2100-586D	2100-587D	2100-588D	2100-589D	2100-590D	2100-591D	2100-592D

DeBakey Multi-Purpose Clamp

Atraumatic jaws / 60° angle

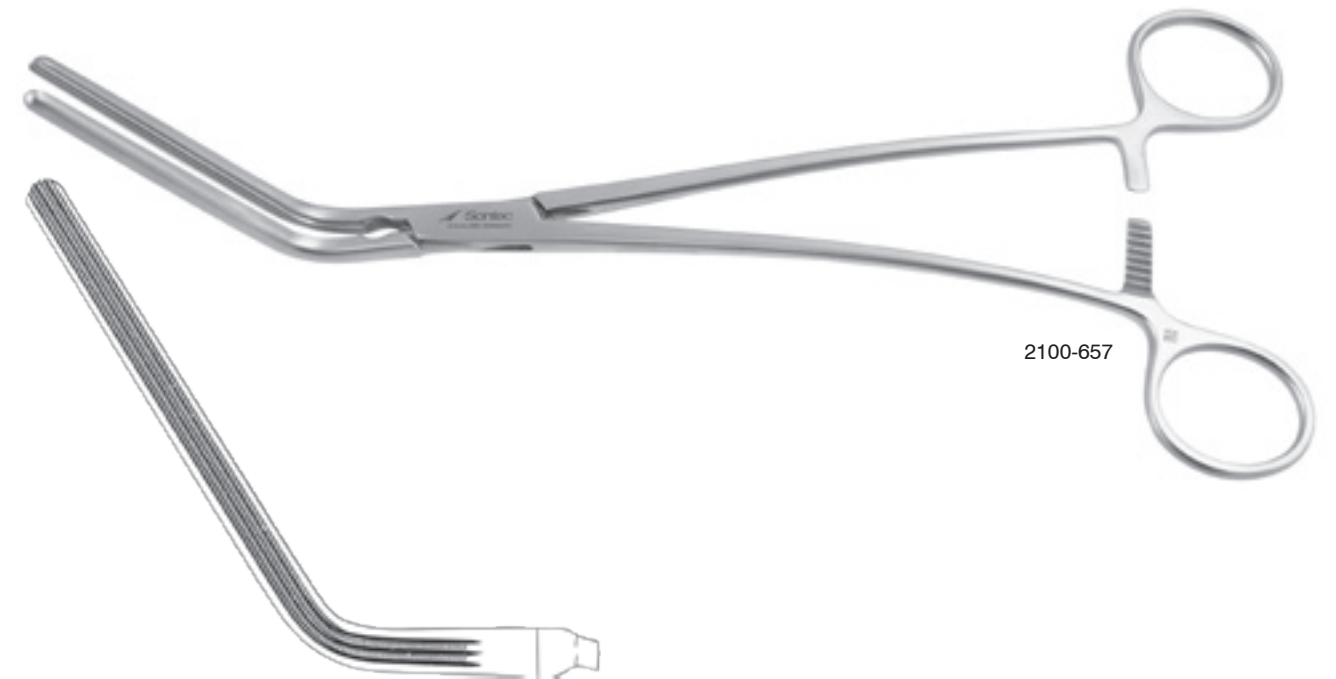
2100-650	9 3/4" (24 cm)
2100-656	8" (20 cm)
2100-654	9 1/4" (23.5 cm)
2100-652	12 1/4" (31 cm)



DeBakey Morris Vascular Clamp

Atraumatic jaws / curved shank / 60° angle / 2 x 3 jaw

2100-658	9 1/2" (24 cm)
2100-657	11" (28 cm)
2100-659	13" (33 cm)



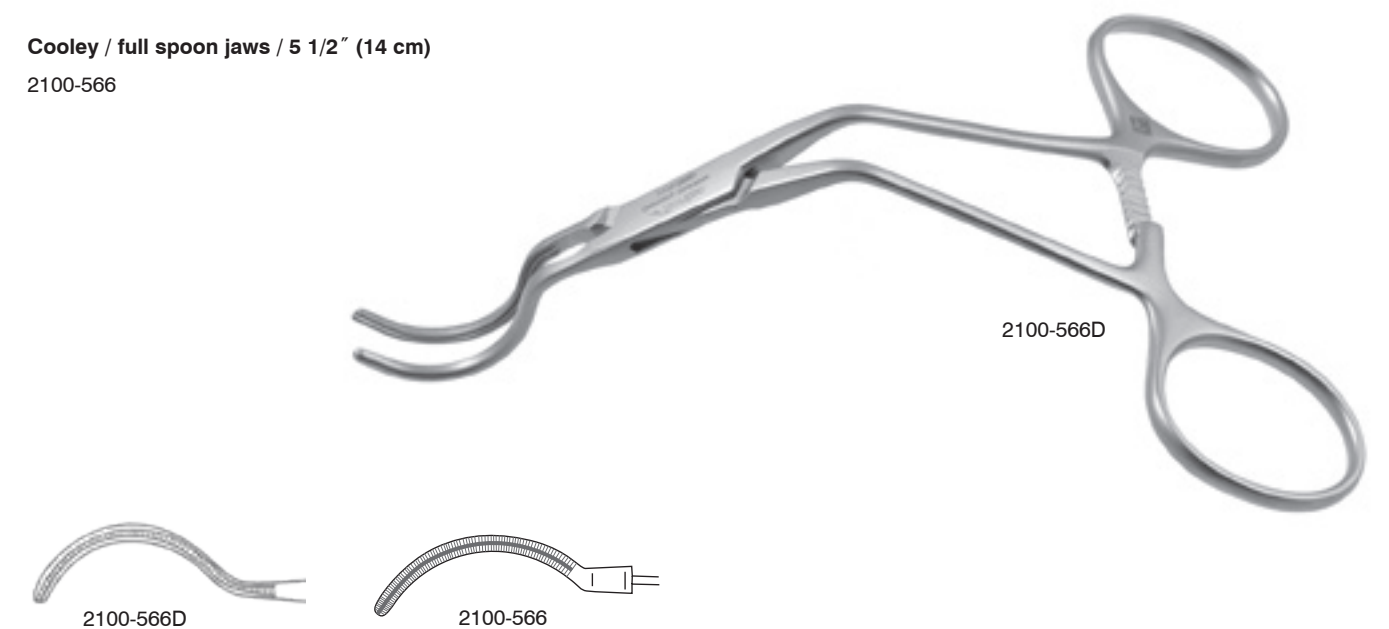
Profunda Clamp

DeBakey / atraumatic jaws / full spoon jaw / 5 1/2" (14 cm)

2100-566D

Cooley / full spoon jaws / 5 1/2" (14 cm)

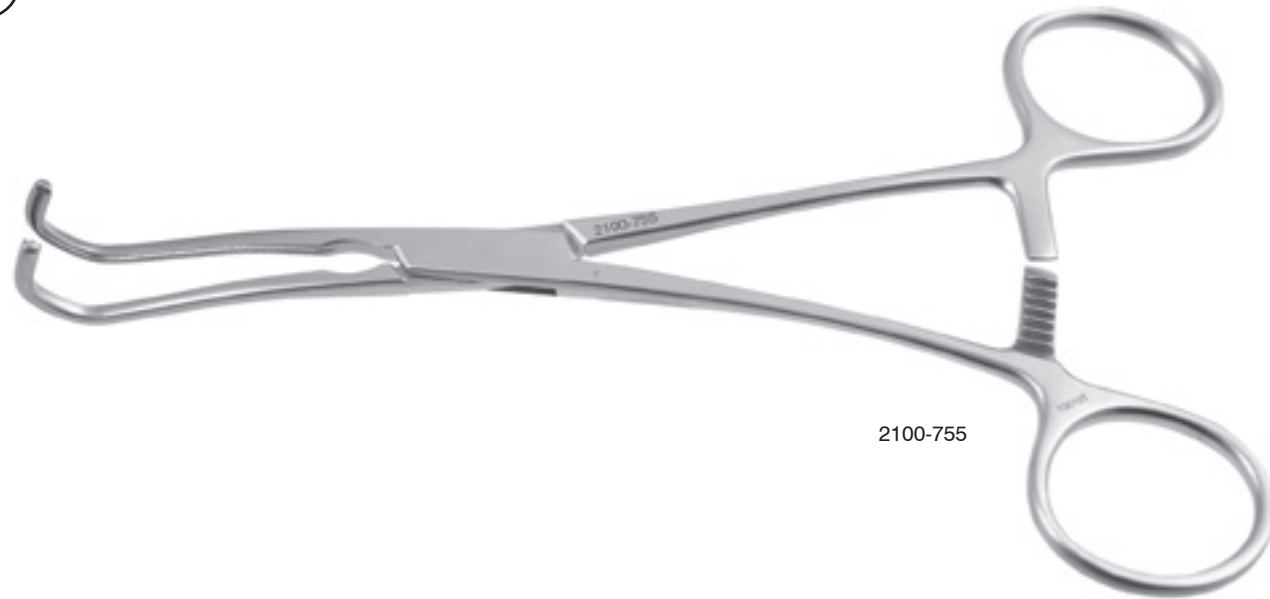
2100-566



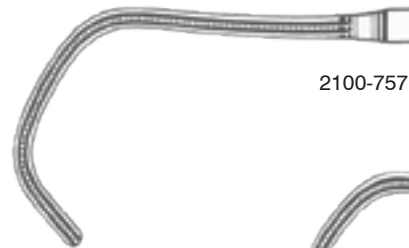
DeBakey-Derra Anastomosis Clamp

Atraumatic jaws

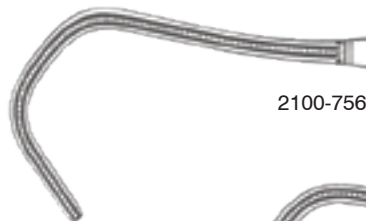
2100-755	small jaws	6 3/4" (17 cm)
2100-756	medium jaws	6 3/4" (17 cm)
2100-757	large jaws	7" (18 cm)



2100-755



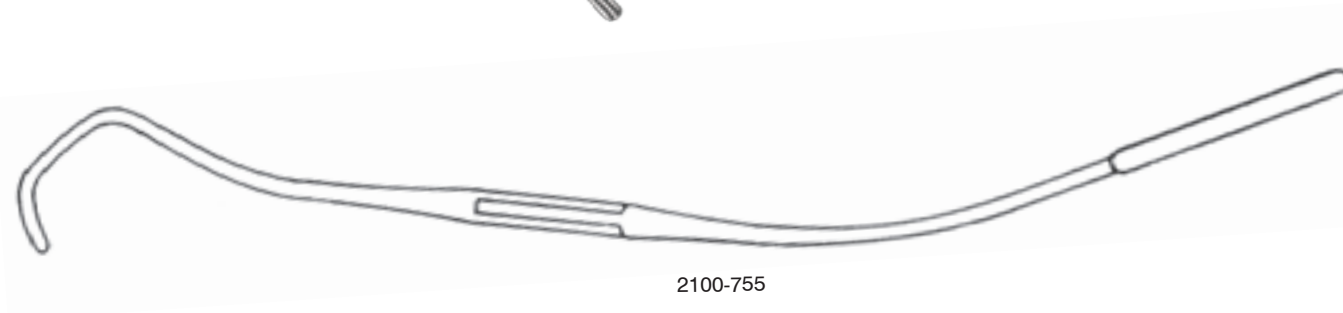
2100-757



2100-756



2100-755



2100-755

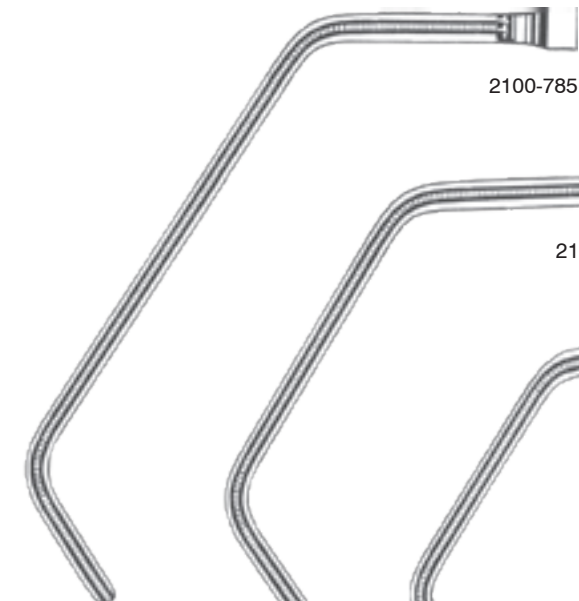
DeBakey-Satinsky Clamp

Atraumatic jaws / double angled / with curved shanks

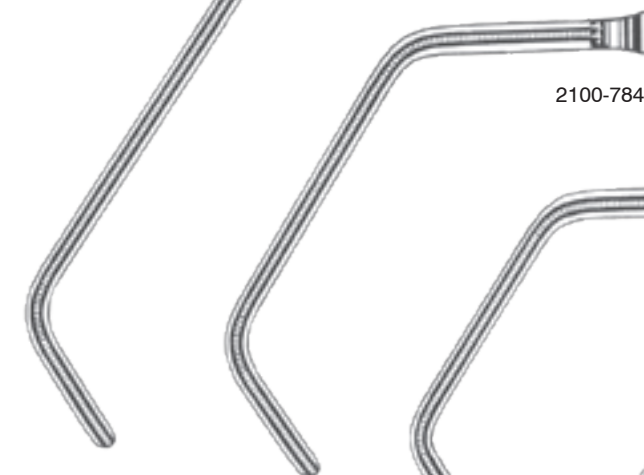
2100-781	9 1/4" (23.5 cm)
2100-782	9 1/2" (24cm)
2100-783	9 3/4" (24.5 cm)
2100-784	10" (25 cm)
2100-785	11 1/4" (28.5)



2100-781



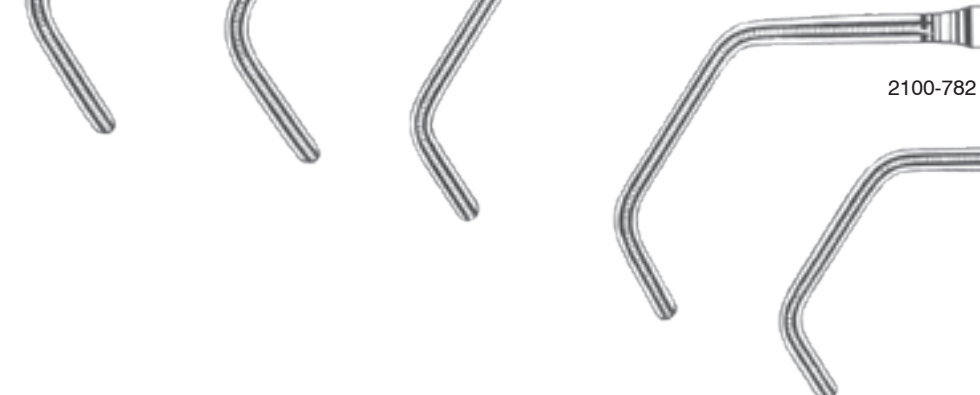
2100-785



2100-784



2100-783



2100-782

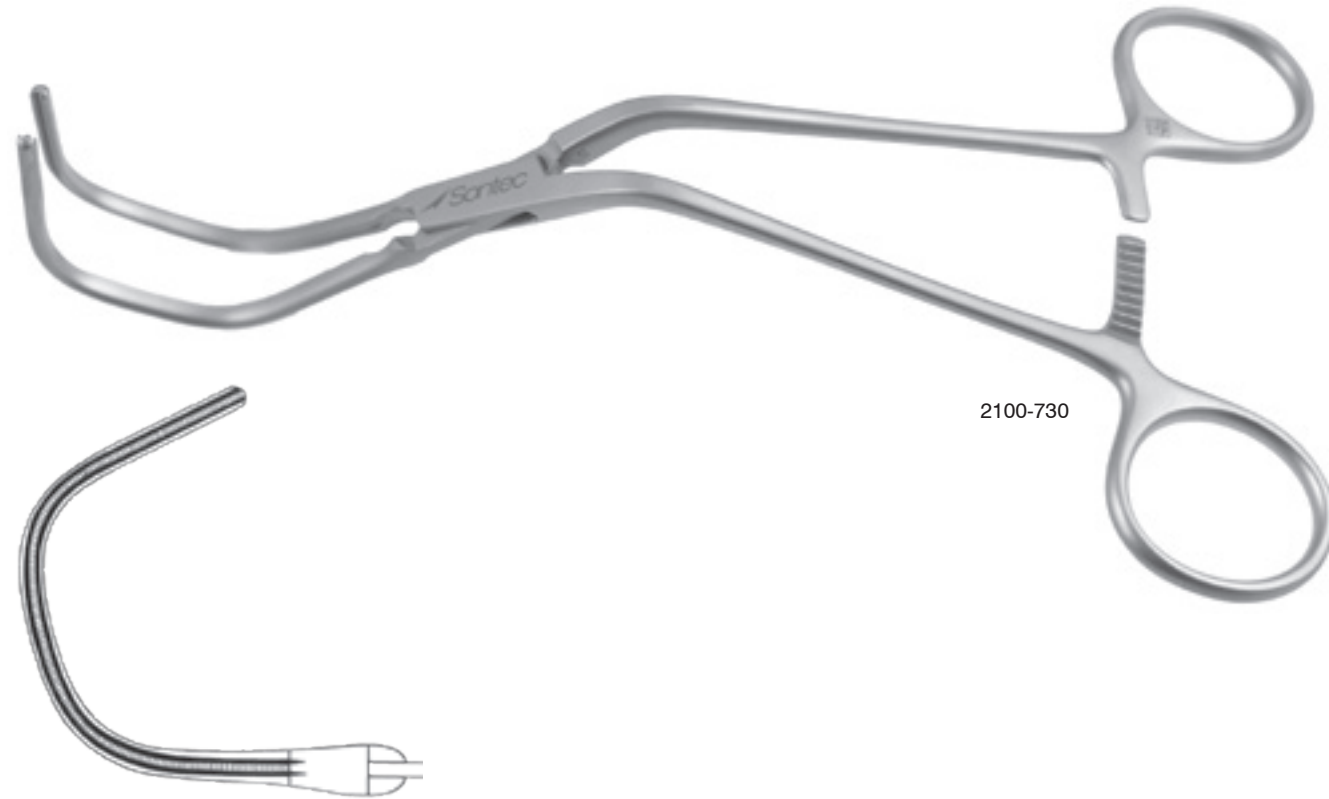


2100-781

Lambert DeBakey Aortic Clamp

Double-curved / atraumatic jaws / 8" (20 cm)

2100-730



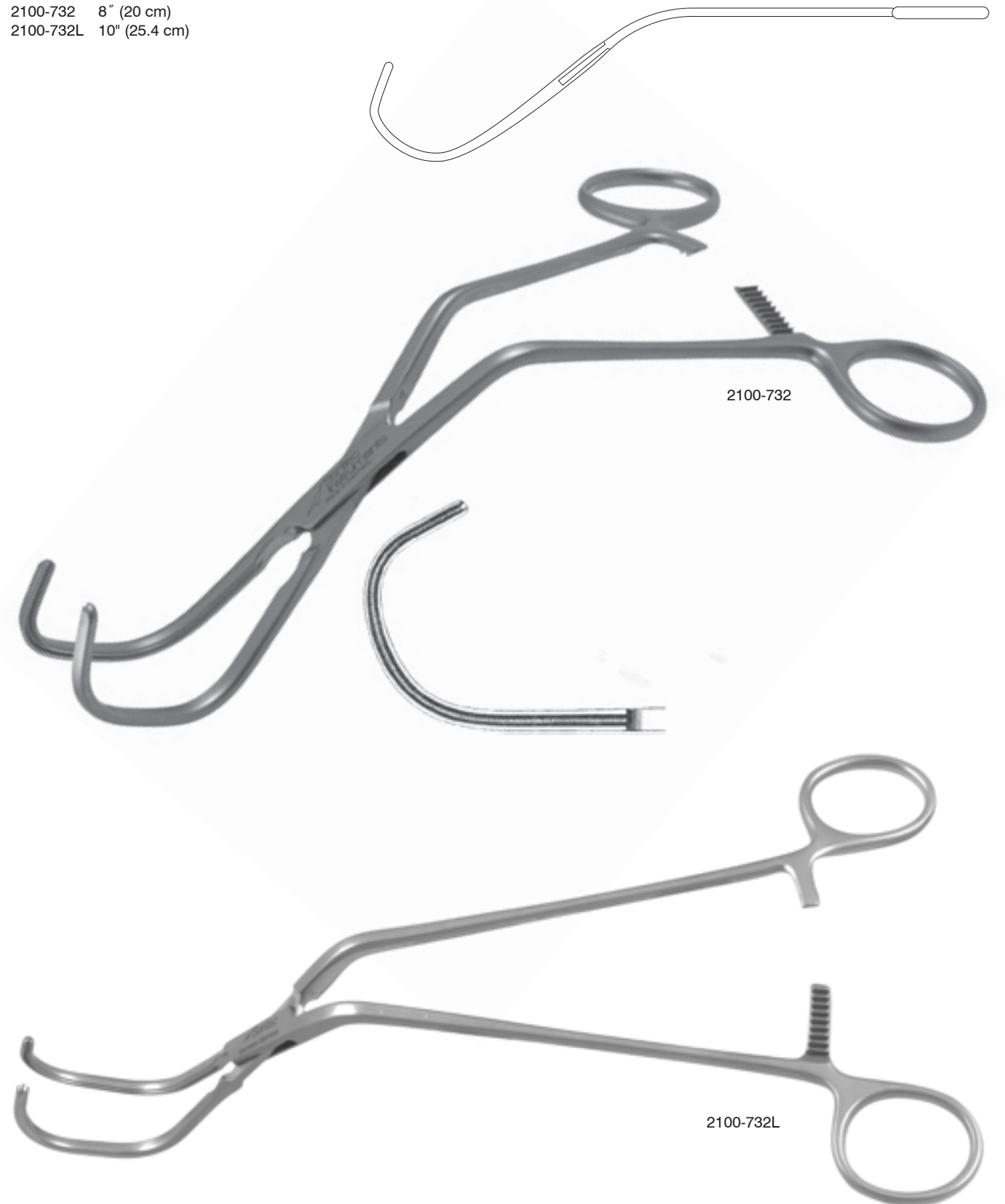
2100-730

Lambert-Kay DeBakey Aortic Clamp

Double-curved / atraumatic jaws

2100-732 8" (20 cm)

2100-732L 10" (25.4 cm)



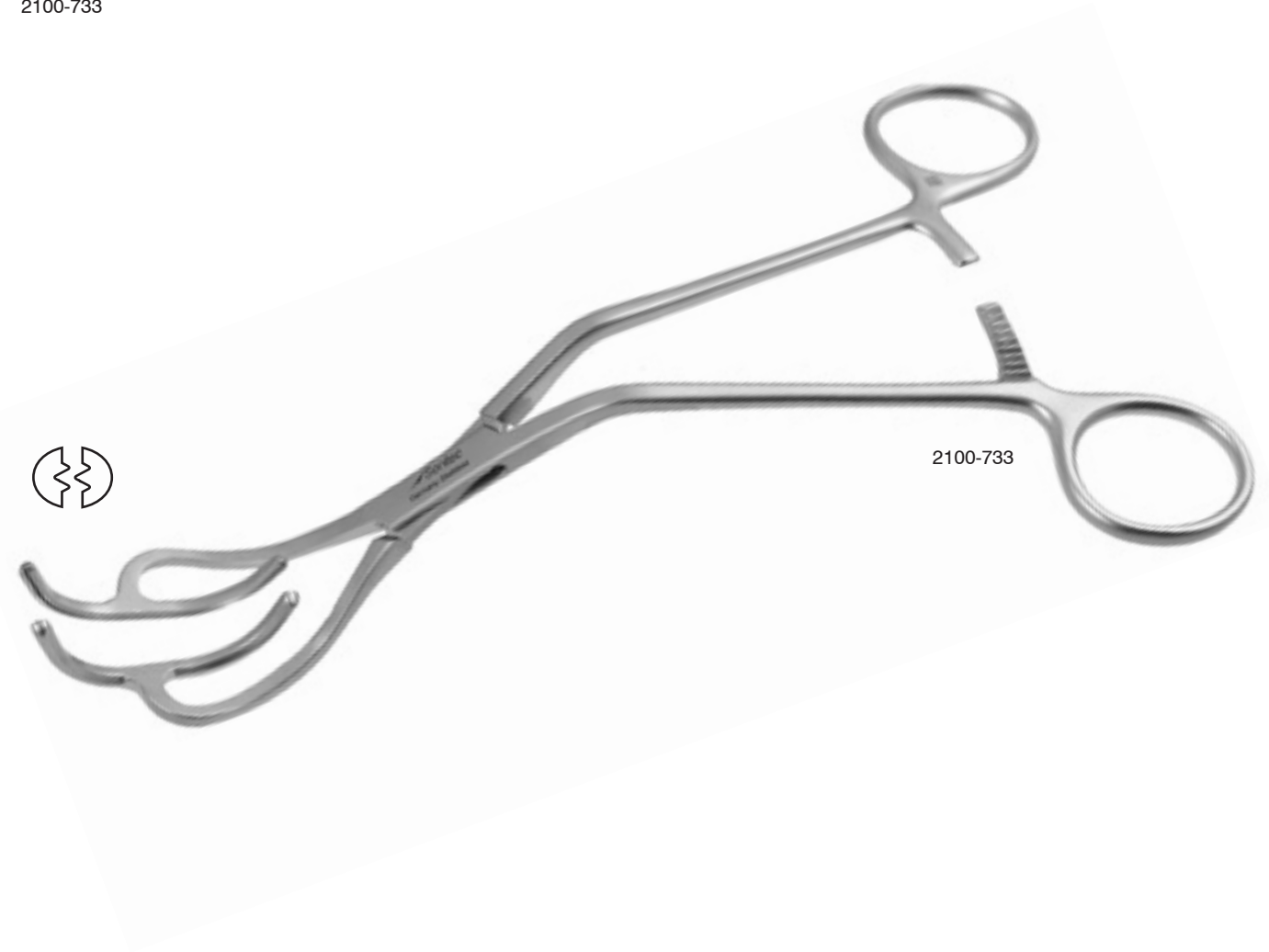
2100-732

2100-732L

Strong Aortic Clamp

With Debakey jaws / 7 1/2" (19 cm)

2100-733



2100-733

Vorse Tube Occluding Clamp

Serrated jaws

117-543 5 1/4" (13 cm)

117-546 7 1/4" (18.5 cm)

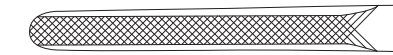
117-549 8" (20 cm) heavy

Serrated jaws / with u-shaped guard

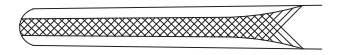
117-562 5 1/4" (13 cm)

117-565 7 1/4" (18.5 cm)

117-568 8" (20 cm) heavy



117-568



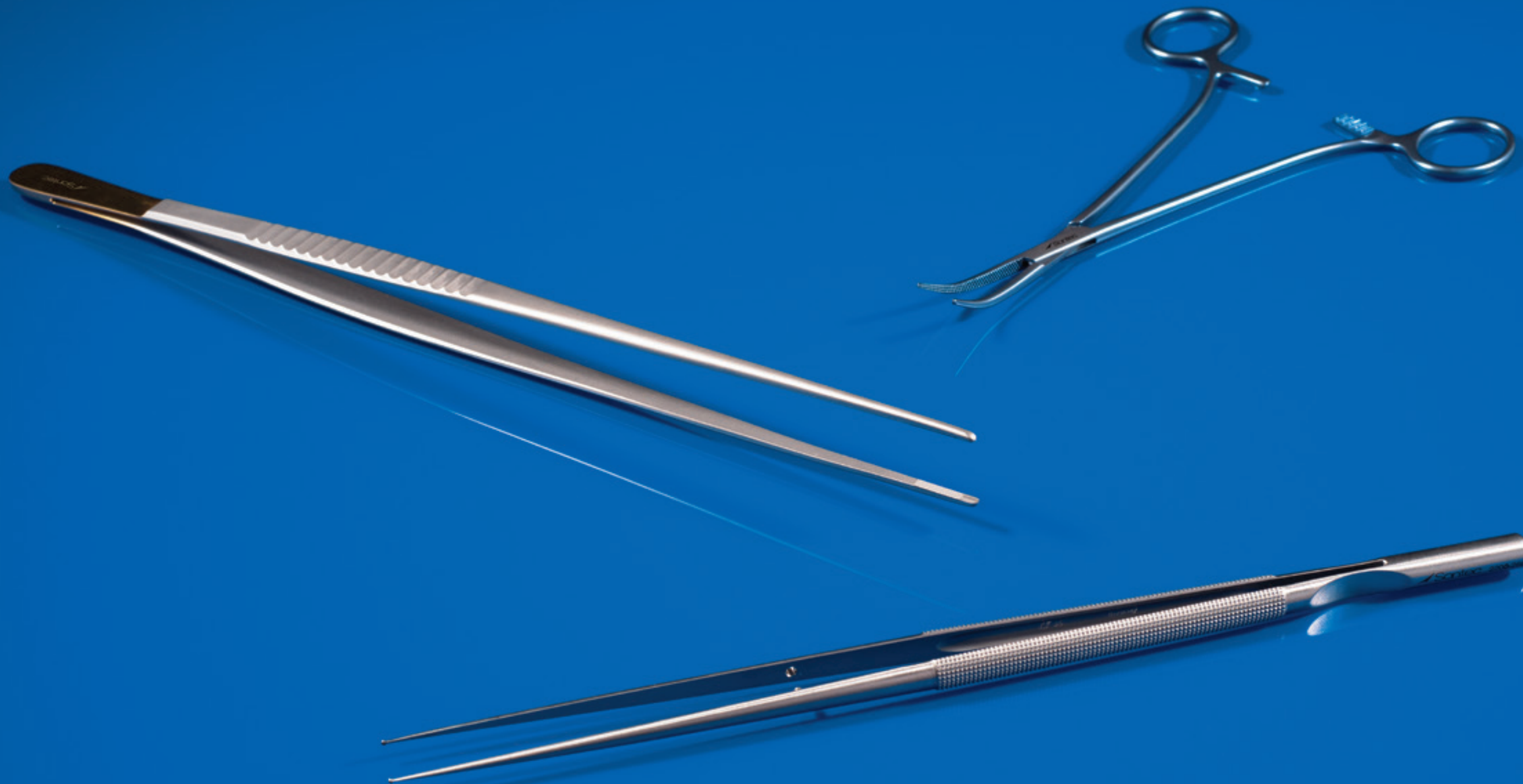
117-565



117-543



117-562



 Sontec Instruments®

Forceps

Micro Ring Tip Wide Grip Forceps Titanium

1 mm ring tip / wide 10 mm round handle / light weight / TC dust

2600-517W	7 1/8"
2600-518W	8 1/4"



1 mm



2600-517W



2600-518W

Micro Tying Wide Grip Forceps Titanium

Tying platform / wide 10 mm round handle / lightweight / TC dust

2600-508W	7 1/8"
2600-511W	8 1/4"



2600-508W



2600-511W

Micro Ring Tip 1 mm Lightweight Forceps Titanium

Round handle / lightweight / ring tip / 1 mm / TC dust

2600-515	6" (15 cm)
2600-517	7 1/8" (18.25 cm)
2600-518	8 1/4" (21 cm)



2600-515



1 mm

Micro Ring Tip 2 mm Lightweight Forceps Titanium

Round handle / lightweight / ring tip / 2 mm / TC dust

2600-519	6" (15 cm)
2600-521	7 1/8" (18.25 cm)
2600-522	8 1/4" (21 cm)



2600-521



2 mm

Micro Ring Tip Cross Serrated Lightweight Forceps Titanium

8 mm / round handle / with guide pin / fine cross serrated / straight / light weight / 7" (17.8 cm)

2600-534X	1.0 mm
2600-535X	2.0 mm



2600-534X



2600-535X

Micro Tying Lightweight Forceps Titanium

Round handle / lightweight / tying platform / striaght / TC dust

2600-500	4 3/4" (12 cm)	
2600-504	6" (15 cm)	
2600-504N	6" (15 cm)	0.4 mm
2600-508	7 1/8" (18.25 cm)	
2600-511	8 1/4" (21 cm)	

Round handle / lightweight / tying platform / curved / TC dust

2600-502	4 3/4" (12 cm)	
2600-506	6" (15 cm)	0.5 mm
2600-506N	6" (15 cm)	0.4 mm
2600-510	7 1/8" (18.25 cm)	
2600-512	8 1/4" (21 cm)	

Round handle / lightweight / straight

2600-503D	4 3/4" (12 cm)	1.5 mm	DeBakey tip
2600-503R	4 3/4" (12 cm)	1.0 mm	ring tip



Platform

Curved

Straight



2600-508



2600-506N



2600-503D



2600-503R

DeBakey 1 mm Lightweight Forceps Titanium

Round handle / lightweight / 1 mm / DeBakey tip

2600-575	6" (15 cm)
2600-580	7 1/8" (18.25 cm)
2600-585	8" (21 cm)



1 mm
DeBakey tip



2600-580

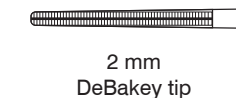


2600-585

DeBakey 2 mm Lightweight Forceps Titanium

Round handle / lightweight / 2 mm / DeBakey tip

2600-581	7 1/8" (18.25 cm)
2600-586	8 1/4" (21 cm)



2 mm
DeBakey tip



Micro 1x2 Teeth Lightweight Forceps Titanium

Round handle / suture forceps / tying platform / 1 x 2 teeth / 1 mm / TC dust / 7 1/4" (18.5 cm)

2600-596	7 1/4" (18.5 cm)
2600-592	9" (22.9 cm)



1 x 2 Teeth



2600-596



2600-592

Rhoton 1x2 Teeth Lightweight Forceps Titanium

1x2 teeth / 1mm tip / TC Dust / knurl handle

2600-482 7" (18 cm)
2600-483 8 1/2" (21.6 cm)



2600-482



2600-483

McAninch-DeBakey Lightweight Needle-Pulling Forceps Titanium

Non-magnetic / TC dust / Two-in-One Design-can be used for holding the needle and grasping tissue

2600-5821 1 mm 7 1/8" (18.25 cm)
2600-582 1.5 mm 7 1/8" (18.25 cm)
2600-5891 1 mm 8 1/4" (21 cm)
2600-589 1.5 mm 8 1/4" (21 cm)



1 mm



1.5 mm



2600-582



2600-589

Debakey Needle Pulling Lightweight Forceps Titanium

2 mm / autramatic tip / TC duct / straight / 8" (20.5 cm)

2600-5861 round handle



2 mm



2600-5861

Gerald Lightweight Forceps Titanium

Round handle / 1.3 mm tip

2600-488 7 1/4" (18.4 cm)
2600-489 8 1/4" (21 cm)



2600-488



2600-489

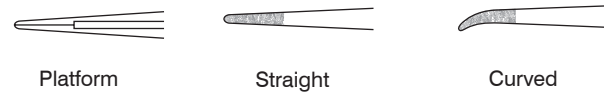
Extra-Long Tying Round Handle Lightweight Forceps Titanium

Tying Platform / straight / TC Dust

2600-512B 9" (23 cm)
2600-513 10" (25 cm)

Tying Platform / curved / TC Dust

2600-512C 9" (23 cm)
2600-514 10" (25 cm)



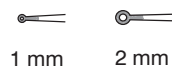
Extra-Long Ring Tip Round Handle Lightweight Forceps Titanium

Ring tip / 1 mm / TC Dust

2600-518B 9" (23 cm)
2600-518C 10" (25 cm)

Ring tip / 2 mm / TC Dust

2600-522B 9" (23 cm)
2600-522C 10" (25 cm)



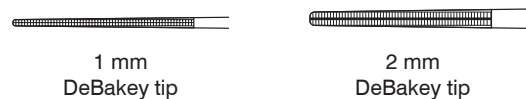
Extra-Long DeBakey Round Handle Lightweight Forceps Titanium

DeBakey Tip / 1 mm

2600-590 9" (23 cm)
2600-594 10" (25 cm)

DeBakey Tip / 2 mm

2600-591 9" (23 cm)
2600-595 10" (25 cm)

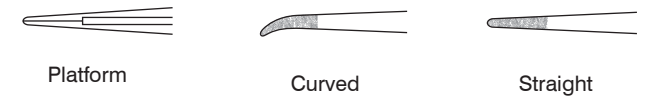


Although these forceps are longer than our regular forceps, they are extremely light, yet durable. Our extra-long forceps come in a variety of tips and many come standard with TC Dust for better grasping without scoring other instrumentation or causing trauma to delicate tissue. Stainless steel models are also available. Please call Sontec® about these and other fine instruments.

Tying Round Handle Bayonet Lightweight Forceps Titanium

TC dust / blunt / straight / titanium

2600-477 8" (20.3 cm)
2600-473 9" (23 cm)
2600-474 10" (25 cm)



TC dust / angle down shaft / straight / 1 mm tip / 9" (22.9 cm)

2600-4732



Micro 1x2 Teeth Bayonet Lightweight Forceps Titanium

TC dust / 1x2 teeth / with platform

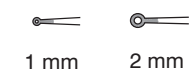
2600-478 8" (20.5 cm)
2600-479 10" (25.5 cm)



Ring Tip Round Handle Bayonet Lightweight Forceps Titanium

Ring tip / TC dust / straight

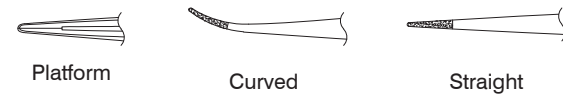
2600-476 8 1/4" (21 cm) 2 mm
2600-472 9" (22.9 cm) 1 mm
2600-471 8 1/4" (21 cm) 1 mm



Micro Tying Round Handle Counterweight Forceps Titanium

Tying forceps with platform / TC dust / 6" (15.2 cm)

2600-430	straight	0.5 mm
2600-4301	straight	0.8 mm
2600-431	curved	0.5 mm
2600-4311	curved	0.8 mm



Tying forceps with platform / TC dust / 7 1/8" (17.9 cm)

2600-530	straight	0.5 mm
2600-532	straight	0.6 mm
2600-424	straight	0.8 mm
2600-531	curved	0.5 mm
2600-533	curved	0.6 mm
2600-425	curved	0.8 mm

Tying forceps with platform / TC dust / 8 1/4" (21 cm)

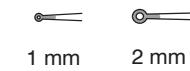
2600-4221	straight	0.5 mm
2600-534	straight	0.6 mm
2600-422	straight	0.8 mm
2600-4231	curved	0.5 mm
2600-423	curved	0.8 mm



Micro Ring Tip Counterweight Forceps Titanium

Round handle / counterweight / ring tip / 1 mm / TC dust

2600-523	6" (15 cm)	
2600-524	6" (15 cm)	curved
2600-525	7 1/8" (18.25 cm)	
2600-525C	7 1/8" (18.25 cm)	curved
2600-526	8 1/4" (21 cm)	



Round handle / counterweight / ring tip / 2 mm / TC dust

2600-527	6" (15 cm)
2600-528	7 1/8" (18.25 cm)
2600-529	8 1/4" (21 cm)



Micro 0.2 mm 1x2 Teeth Counterweight Forceps Titanium

Round Handle / counterweight / straight / TC dust / 1 x 2 teeth / 0.2 mm tip / 8" (20.3 cm)

2600-480



1 x 2 Teeth



2600-480

Micro DeBakey 1 mm Counterweight Forceps Titanium

Round Handle / counterweight / 1 mm / DeBakey tip

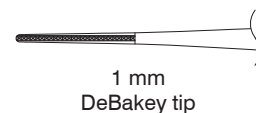
2600-565 6" (15 cm)

2600-570 7 1/8" (18.25 cm)

2600-570A 7 1/8" (18.25 cm) angled tip

2600-560 8 1/4" (21 cm)

2600-560A 8 1/4" (21 cm) angled tip



1 mm
DeBakey tip



2600-560



2600-570

Micro DeBakey 2 mm Counterweight Forceps Titanium

Round Handle / counterweight / 2 mm / deBakey tip

2600-571 7 1/8" (18.25 cm)

2600-561 8 1/4" (21 cm)



2 mm
DeBakey tip

* Special Order



2600-561

Extra-Long Micro Ring Tip Counterweight Forceps Titanium

Ring tip / 1mm / TC Dust

2600-526B 9" (23 cm)

2600-526C 10" (25 cm)



1 mm



2 mm

Ring tip / 2mm / TC Dust

2600-529B 9" (23 cm)

2600-529C 10" (25 cm)



2600-526B

Extra-Long Micro Tying Counterweight Forceps Titanium

Tying platform / straight / TC Dust

2600-426 9" (23 cm)
2600-428 10" (25 cm)

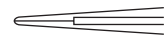
Although these forceps are longer than our regular forceps, they are extremely light, yet durable.

Tying platform / curved / TC Dust

2600-427 9" (23 cm)
2600-429 10" (25 cm)

Our extra-long forceps come in a variety of tips and many come standard with TC Dust for better grasping without scoring other instrumentation or causing trauma to delicate tissue.

Stainless steel models are also available. Please call Sontec® about these and other fine instruments.



Platform



Curved



Straight

Extra-Long DeBakey Counterweight Forceps Titanium

DeBakey tip / 1 mm

2600-562 9" (23 cm)
2600-563 10" (25 cm)

DeBakey tip / 2 mm

2600-573 9" (23 cm)
2600-574 10" (25 cm)



1 mm
DeBakey tip



2 mm
DeBakey tip



2600-573

Micro 1x2 Teeth Double Action Counterweight Forceps Titanium

1x2 teeth / 0.5 mm teeth / counter weight / 8 1/4" (21 cm)

2600-421



1 x 2 Teeth



2600-421

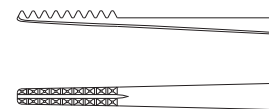
Resano Brown Double Action Counterweight Forceps Titanium

Double action / counter weight / 9x9 teeth

2600-383	8 1/4" (21 cm)	2 mm
2601-303	10" (25.4 cm)	2 mm
2601-304	10" (25.4 cm)	2.5 mm
2601-305	12" (30.5 cm)	2 mm
2601-306	12" (30.5 cm)	2.5 mm



2600-383



DeBakey Needle Pulling Double Action Counterweight Forceps Titanium

Double action / counter weight

2600-587 1 mm tip 8 1/4" (21 cm)



1 mm



2600-587

Micro Ring Tip Round Handle Lightweight Forceps

Ring tip / TC dust / 1 mm / 6" (15 cm)

2200-220 straight
2200-222 curved
2200-224 platform



Ring tip / TC dust / 2 mm / 6" (15 cm)

2200-209 straight
2200-211 curved



2200-220

Ring tip / TC dust / 1 mm / 7 1/8" (18.25 cm)

2200-200 straight
2200-202 curved
2200-216 platform

Ring tip / TC dust / 2 mm / 7 1/8" (18.25 cm)

2200-208 straight
2200-210 curved



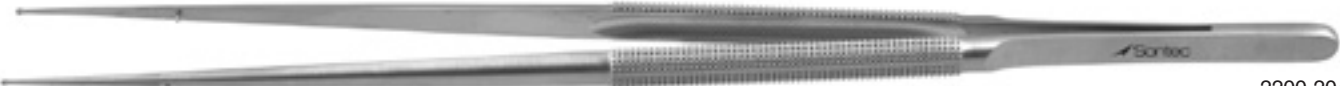
2200-200

Ring tip / TC dust / 1 mm / 8 1/4" (21 cm)

2200-204 straight
2200-206 curved
2200-218 platform

Ring tip / TC dust / 2 mm / 8 1/4" (21 cm)

2200-212 straight
2200-214 curved

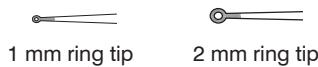


2200-204

Micro Ring Tip Cross Serrated Lightweight Forceps

8 mm / round handle / with guide pin / fine cross serrated / straight / light weight / 7" (17.8 cm)

2200-280X 1.0 mm
2200-281X 2.0 mm



2200-280X

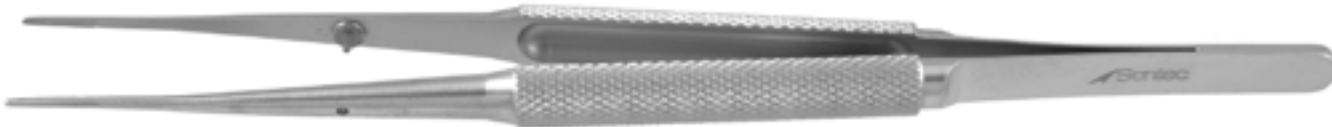


2200-281X

Hargrove Tying Wide Grip 10 mm Lightweight Forceps

X-serrated / with platform / 10 mm wide handle

2200-278W 1 mm platform 7 1/4" (18.4 cm)
2200-280W 0.8 mm platform 8 1/4" (21 cm)



2200-278W



2200-280W

Micro Tying Wide Grip 10 mm Lightweight Forceps

TC dust / with 0.8 mm platform / 10 mm wide handle / 7 1/4" (18.4 cm)

2200-279W 7 1/4" (18.4 cm)
2200-282W 8 1/4" (21 cm)

TC serrated / with 0.8 mm platform / 10 mm wide handle

2200-283W 8 1/4" (21 cm) straight
2200-284W 8 1/4" (21 cm) angled 45°
2200-285W 7 1/4" (18.4 cm) angled 45°
2200-286W 7 1/4" (18.4 cm) straight



2200-279W



2200-283W



2200-284W

Micro 1x2 Teeth Tying Round Handle Lightweight Forceps

Tying forceps with platform / TC dust / 6" (15 cm)

2200-198A straight 1 x 2 teeth

Tying forceps with platform / TC dust / 7 1/8" (18.25 cm)

2200-198 straight 1 x 2 teeth



1 x 2 Teeth



Straight



Platform

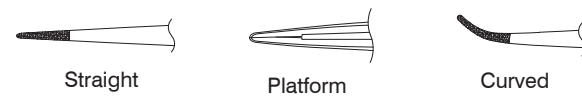


2200-198

Micro Tying Round Handle Lightweight Forceps

Tying forceps / TC dust / 5 1/2" (14 cm)

2200-024 straight
2200-026 curved



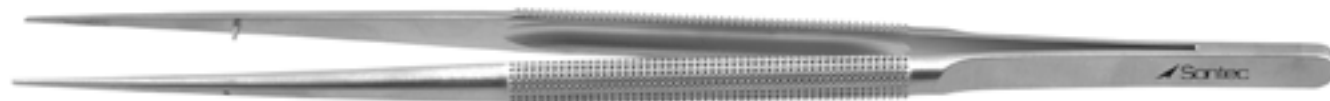
2200-026

Tying forceps / TC dust / 6" (15 cm)

2200-181 straight
2200-183 curved

Tying forceps / TC dust / 7 1/8" (18.25 cm)

2200-180 straight
2200-182 curved



2200-180

Tying forceps / TC dust / 8 1/4" (21 cm)

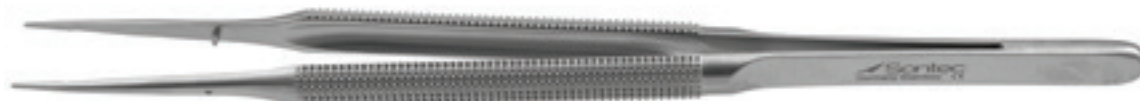
2200-184 straight
2200-186 curved



2200-184

Tying forceps with platform / TC dust / 6" (15 cm)

2200-191 straight
2200-193 curved



2200-191

Tying forceps with platform / TC dust / 7 1/8" (18.25 cm)

2200-190 straight
2200-192 curved

Tying forceps with platform / TC dust / 8 1/4" (21 cm)

2200-194 straight
2200-196 curved

Micro DeBakey 1 mm Lightweight Round Handle Tissue Forceps

DeBakey / 1 mm tip

2200-168A 6" (15 cm)
2200-168 7 1/8" (18.25 cm)
2200-172 8 1/4" (21 cm)



2200-172

DeBakey Needle-Pulling Lightweight Forceps

Round handle / lightweight / 1.2 mm tip / TC Platform

2200-163 7" (18 cm)
2200-164 8 1/4" (21 cm)
2200-164A 8 1/4" (21 cm) angled up
2200-165 9 1/2" (24 cm)



2200-163



2200-164



2200-165

Round handle / lightweight / 2 mm tip / TC Platform

2200-160 7 1/4" (18.5 cm)



2200-160



TC platform

Extra-Long Micro Tying Round Handle Lightweight Forceps

Tying Forceps With Platform / TC Dust / 9" (23 cm)

2200-197A	straight
2200-197B	curved



Tying Forceps With Platform / TC Dust / 10" (25 cm)

2200-197C	straight
2200-197D	curved



2200-197A

Although these forceps are longer than our regular forceps, they are extremely light, yet very stable.

Our extra-long forceps come in a variety of tips and many come standard with TC Dust for better grasping without scoring other instrumentation or causing trauma to delicate tissue.

Extra-Long Micro Ring Tip Round Handle Lightweight Forceps

Ring tip / TC dust / straight

2200-207	1 mm	straight	9" (23 cm)
2200-207D	1 mm	straight	10" (25 cm)
2200-215B	2 mm	straight	10" (25 cm)



Ring tip / TC dust / curved

2200-207B	1 mm	curved	9" (23 cm)
2200-207C	1 mm	curved	10" (25 cm)
2200-215	2 mm	curved	9" (23 cm)



2200-207B

Extra-Long Micro DeBakey Round Handle Lightweight Forceps

DeBakey / 9" (23 cm)

2200-171B	1 mm
2200-178B	2 mm



DeBakey / 10" (25 cm)

2200-171C	1 mm
2200-178C	2 mm



2200-171B

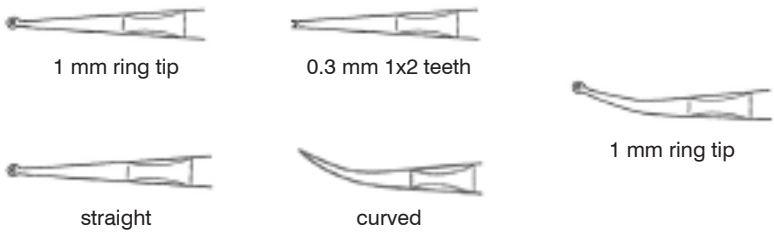
Although these forceps are longer than our regular forceps, they are extremely light, yet very stable.

Our extra-long forceps come in a variety of tips and many come standard with TC Dust for better grasping without scoring other instrumentation or causing trauma to delicate tissue.

Finesse Guide Micro Lightweight Forceps

Round Handle / light weight / straight / 6 1/4" (16 cm)

2200-199A	0.8 mm	tying
2200-199B	0.3 mm	tying
2200-199C	0.8 mm	tying curved
2200-199D	0.3 mm	1x2 teeth
2200-199E	1.0 mm	ring tip
2200-199F	1.0 mm	ring tip curved



2200-199A



2200-199B



2200-199D

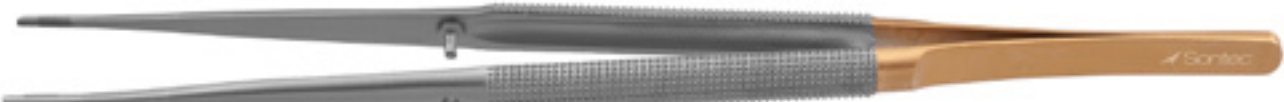


2200-199E

Cooley Tying Forceps

1.3 mm / round Handle / light weight / 7 1/8" (17.8 cm)

2200-158	
2200-159	with TC serrated tying platform



2200-159

Tying Bayonet Lightweight Forceps

TC dust / straight / round handle / lightweight / 8 1/4" (21 cm)

400-380 sharp
400-381 blunt



Platform



Curved



Straight

TC dust / angled / round handle / lightweight / 8 1/4" (21 cm)

400-382 sharp
400-383 blunt

TC dust / straight / round handle / lightweight / 9" (23 cm)

400-384 sharp
400-385 blunt

TC dust / angled / round handle / lightweight / 9" (23 cm)

400-386 sharp
400-387 blunt



400-381

Ring Tip Bayonet Lightweight Forceps

Ring tip / TC dust / 1 mm / straight / round handle / lightweight

2200-204Y 8" (20 cm)
2200-207Y 9" (23 cm)



1 mm ring tip



2 mm ring tip

Ring tip / TC dust / 2 mm / straight / round handle / lightweight

2200-212Y 8" (20 cm)
2200-215Y 9" (23 cm)



2200-204Y

Micro Tying Round Handle Counterweight Forceps

Tying forceps with platform / TC Dust / 6" (15.2 cm)

2200-230	straight	0.4 mm
2200-2301	straight	0.8 mm
2200-232	curved	0.4 mm
2200-2321	curved	0.8 mm



Straight



Curved



Platform

Tying forceps with platform / TC Dust / 7 1/8" (17.9 cm)

2200-234	straight	0.4 mm
2200-2342	straight	0.8 mm
2200-235	curved	0.4 mm
2200-2352	curved	0.8 mm

Tying forceps with platform / TC Dust / 8 1/4" (21 cm)

2200-236	straight	0.4 mm
2200-2361	straight	0.8 mm
2200-237	curved	0.4 mm
2200-2371	curved	0.8 mm



2200-230

Micro Ring Tip Counterweight Round Handle Tissue Forceps

Ring tip / TC dust / 1 mm / straight

2200-250	6" (15 cm)
2200-254	7 1/8" (18.25 cm)
2200-258	8 1/4" (21 cm)



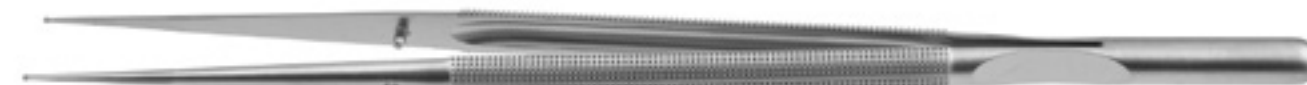
1 mm ring tip



2 mm ring tip



2.5 mm ring tip



2200-258

Ring tip / TC dust / 1 mm / curved

2200-252	6" (15 cm)
2200-256	7 1/8" (18.25 cm)
2200-260	8 1/4" (21 cm)



2200-260

Ring tip / TC dust / 2 mm / straight

2200-270	7" (18 cm)
2200-271	8 1/4" (21 cm)

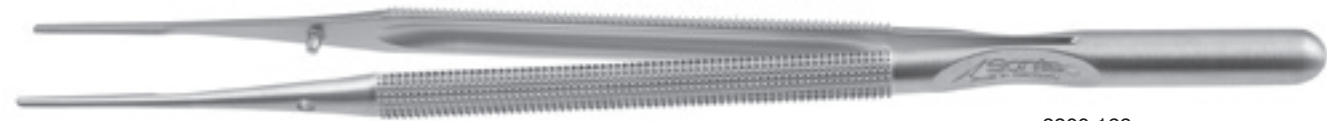
Ring tip / TC dust / 2.5 mm / straight

2200-272	2.5 mm
----------	--------

Micro DeBakey Round Handle Counterweight Forceps

DeBakey / 1 mm Tip

2200-166A	6" (15 cm)
2200-166	7 1/8" (18.25 cm)
2200-170	8 1/4" (21 cm)



2200-166



1 mm DeBakey tip

Micro DeBakey 2 mm Wide Tips Round Handle Counterweight Forceps

DeBakey / 2 mm Tip / wide tips / special order

2200-176	7 1/8" (18.25 cm)
2200-177	8 1/4" (21 cm)



2200-177



2 mm DeBakey tip

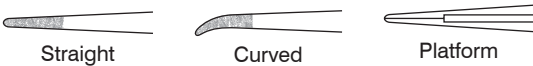
Extra-Long Micro Tying Round Handle Counterweight Forceps

Tying forceps with Platform / TC Dust / straight / special order

2200-239	9" (23 cm)
2200-238	10" (25 cm)

Tying forceps with Platform / TC Dust / curved / special order

2200-241	9" (23 cm)
2200-240	10" (25 cm)



Straight

Curved

Platform



2200-238

Extra-Long Micro Ring Tip Round Handle Counterweight Forceps

Ring tip / TC dust / 1 mm / straight / special order

2200-262	9" (23 cm)
2200-266	10" (25 cm)

Ring tip / TC dust / 1 mm / curved / special order

2200-264	9" (23 cm)
2200-268	10" (25 cm)



1 mm ring tip

2 mm ring tip

Ring tip / TC dust / 2 mm / straight / 9" (23 cm) / special order

2200-277



2200-262

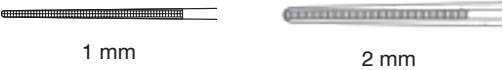
Extra-Long Micro DeBakey Round Handle Counterweight Forceps

DeBakey tip / 1 mm / special order

2200-173B	9" (23 cm)
2200-173C	10" (25 cm)

DeBakey tip / 2 mm / special order

2200-179B	9" (23 cm)
2200-179C	10" (25 cm)



1 mm

2 mm



2200-173B

DeBakey Needle Pulling Tissue Forceps Titanium

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

2600-5860 flat fenestrated handle
2600-5862 flat serrated handle



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



2600-3651



1 mm

DeBakey Forceps Titanium

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

2600-350



2600-350

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)
2600-364	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 cm)



1 mm

2 mm

Angled / 2 mm

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



2600-361



2600-370

DeBakey Knurled Handle Forceps Titanium

Flat Handle / DeBakey Tip 2x3 / 1.8 mm / 9 1/2" (15 cm)

2600-340

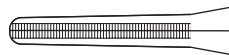


2600-340

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

1.0 mm DeBakey tip



1.5 mm DeBakey tip



2.0 mm DeBakey tip



2.5 mm DeBakey tip



2.7 mm DeBakey tip



2.8 mm DeBakey 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

3.0 mm DeBakey tip



3.5 mm DeBakey 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 Angled Tissue Forceps

Flat Handle / 40° angle

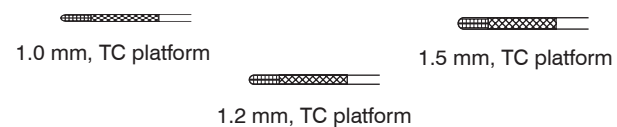
2200-106	2.0 mm	6"
2200-107C	2.0 mm	7 3/4"
2200-107A	2.7 mm	7 3/4"
2200-103A	1.5 mm	9 1/2"
2200-108A	2.0 mm	9 1/2"
2200-1132A	3.5 mm	12"



DeBakey Needle-Pulling Tissue Forceps

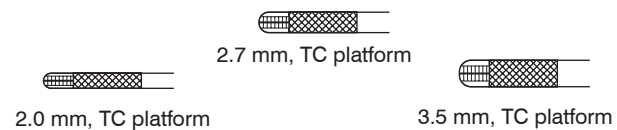
Flat handle / TC platform / 6" (15 cm)

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



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

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

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

DeBakey Thoracic Forceps

Flat handle / 2.5 mm tip

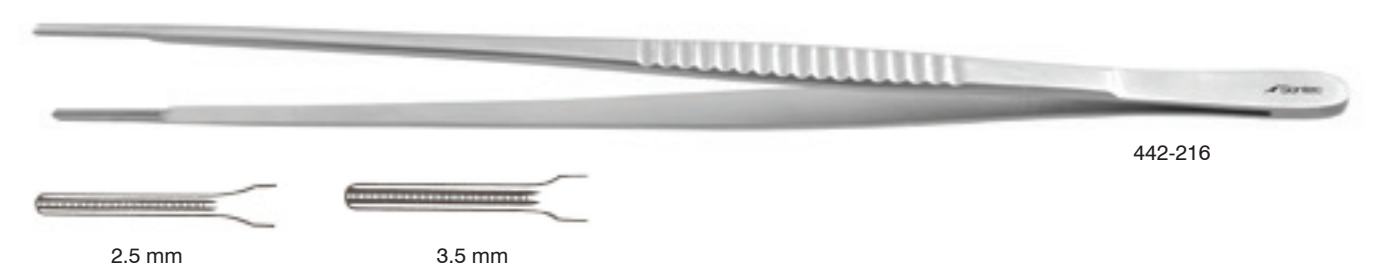
442-210	6" (15 cm)
442-212	7 3/4" (20 cm)
442-214	9 1/2" (24 cm)
442-216	12" (30.5 cm)

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 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)



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)



1.0 mm DeBakey tip



2.0 mm DeBakey tip

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

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



2.7 mm DeBakey tip



3.0 mm DeBakey tip



2200-107B

Gerald Tissue Forceps

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

2200-150



DeBakey tip

DeBakey tip / 8" (20.5 cm)

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



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

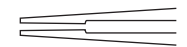
2600-494	9 1/2" (24.1 cm)
2600-494A	9 1/2" (24.1 cm) 45° angled on the flat

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)



1 mm, TC Dust



1 mm Platform



Serrated



Ring, TC Dust



Tissue, 1 x 2 Teeth



1 mm DeBakey Tip



2600-490



2600-491



2600-496



2600-497



2600-495



2600-494

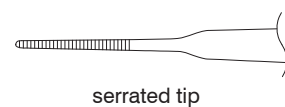


2600-494A

Gerald Tissue Forceps

Serrated / 7" (18 cm)

2200-130 straight
2200-131 curved



serrated tip



2200-130

Cross-serrated

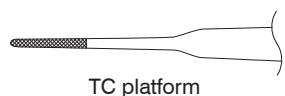
2200-132 7 3/4" (18 cm)
2200-133 8" (20.5 cm)
2200-135 9" (23 cm)
2200-134 10" (25.5 cm)



cross-serrated tip

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)



TC platform



2200-142

TC dust

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



TC Dust

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

2200-154 straight
2200-155 curved



ring tip

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

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



140-372

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

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

Selman Tissue Forceps

Round cup teeth

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



142-113

Singley 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)

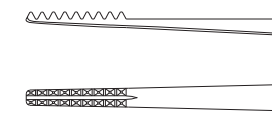
2200-382



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

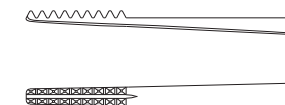


2200-378

Resano Brown Vascular Forceps 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

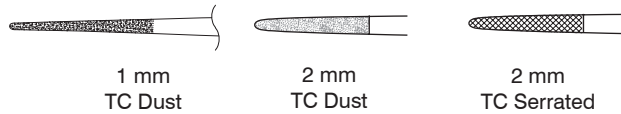


2600-381

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

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)

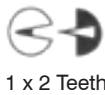


136-740

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

Electro Blue Coated Potts-Smith Tissue Forceps

Monopolar use / TC serrated platform / insulated / flat handle

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



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



Straight



Angled

TC insert platform / straight tip / serrated

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

2200-396 10" (25 cm)

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



1 x 2 Teeth



1100-733

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

Skinner Tissue Forceps

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

140-517M micro

140-517 delicate

140-517G standard



1 x 2 Teeth



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

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

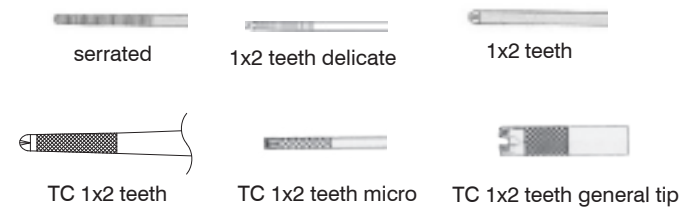
140-364

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)



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



2200-115

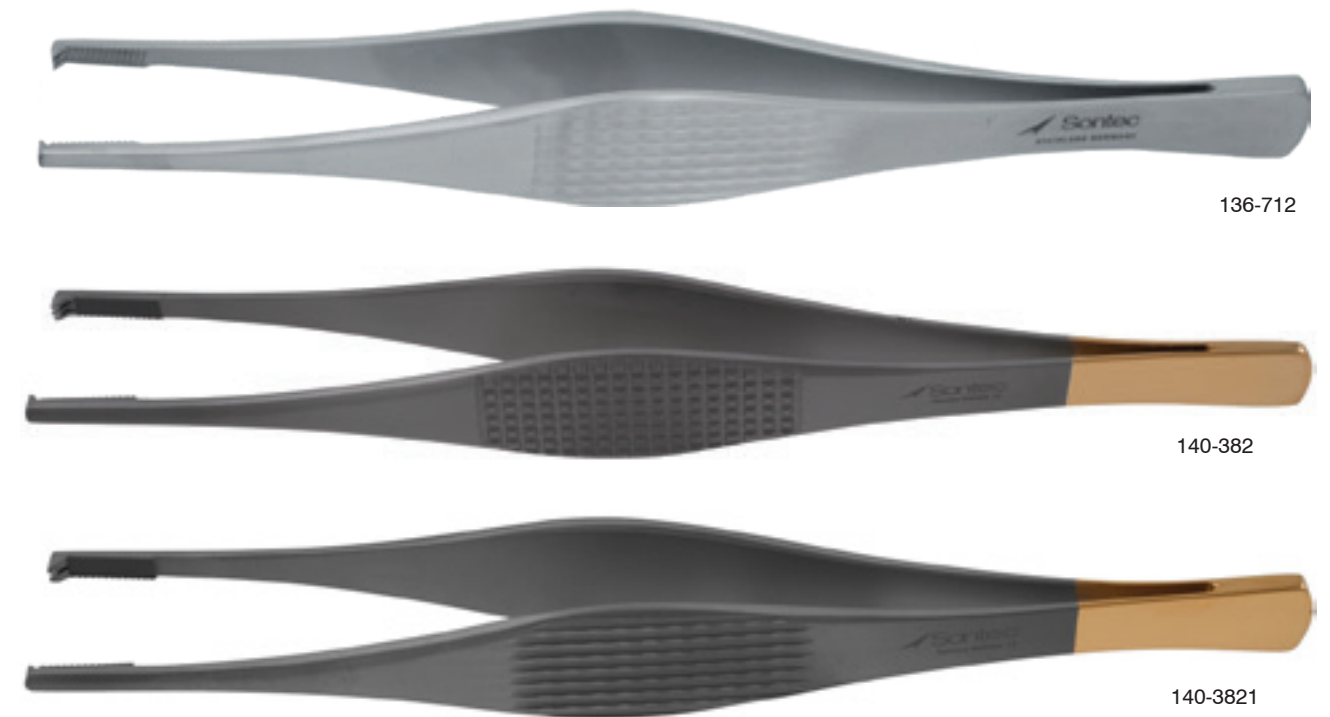
2200-117A

2200-1151

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

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



1 x 2 Teeth



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

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

140-505T



140-505T



platform



140-504B



140-504A

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

Gillies Forceps

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

2200-700

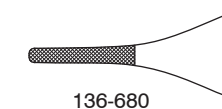


2200-700

Hudson-Ewald Forceps

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

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



136-680



136-684



136-684

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)



199-368



199-365T

Adson Tissue Forceps Titanium

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

140-298T



140-298T

Adson Tissue Forceps Titanium

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

140-304T



140-304T

Adson-Harris Ring Tip Forceps Titanium

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

1103-812T



1103-812T

Adson Tissue Forceps Titanium

1 x 2 Teeth

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



2600-311

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)

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

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



T136-688



136-688T



T136-686

Gorney-Adson Forceps

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

136-6741



136-6741

DeBakey-Adson Tissue Forceps

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

1100-185



1100-185

Beasley-Babcock Tissue Forceps

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

136-699



136-699

Adson Tissue Forceps

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

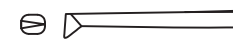
136-668	0.8 mm
136-666	1.3 mm
136-672	1.3 mm 45° angled tips



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"

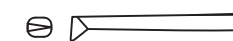
136-682P	1.3 mm
----------	--------



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

Adson Tissue Smooth Platform Forceps

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

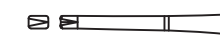
136-668A	0.8 mm
136-674D	1.0 mm
136-674	1.3 mm

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

136-679	1.3 mm
---------	--------



136-674



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

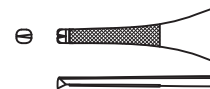


140-303F

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



140-303



140-304

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

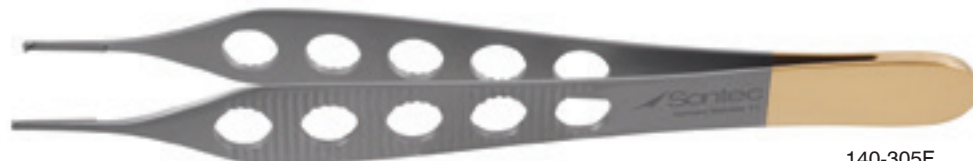
140-207	0.8 mm
140-309	1.0 mm
140-202	1.3 mm
140-203	1.8 mm



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"

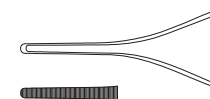
136-6621T	0.4 mm
136-6601	0.5 mm
136-662	0.8 mm
136-662T	0.8 mm
136-660	1.3 mm
136-660A	1.3 mm angled



136-660

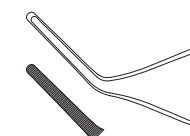
Serrated tip / fenestrated handle / 4 3/4"

136-663	0.8 mm
136-661	1.3 mm



Serrated tip / serrated handle / 6"

140-198	1.3 mm
---------	--------



136-660A



136-6621T



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



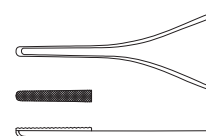
140-299

TC Serrated platform / serrated handle / 6"

140-201	1.3 mm
---------	--------



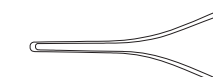
140-301



Adson Dressing TC Dust Forceps

TC Dust / serrated handle / 4 3/4"

140-298	1.3 mm
140-297	1.3 mm platform



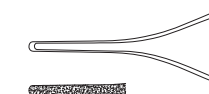
140-298

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"

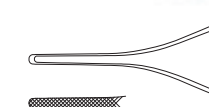
136-664D	0.8 mm
136-664	1.3 mm

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

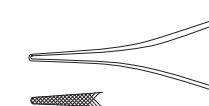
136-665	1.3 mm
---------	--------



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

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

136-688 fenestrated handle

136-688S

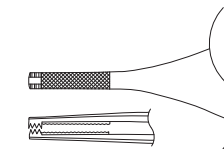


136-688

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 balck coated / 4 3/4" (12 cm)

136-6891 serrated handle

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

136-700



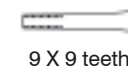
136-700

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

136-686

136-686D 1.6 mm delicate

136-698 angled



9 X 9 teeth



136-686

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

136-687

136-697 TC platform

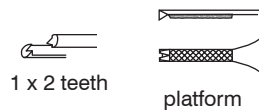


136-697

Stille-Adson Tissue Forceps

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

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

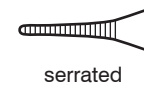


136-675

Stille-Adson Dressing Forceps

Serrated / 4 3/4" (12 cm)

136-659
136-659D delicate



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

1103-809



1103-808



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

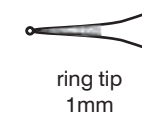


14-6560

Harris Ring Tip Forceps

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

1103-811
1103-811T titanium



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)

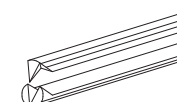
136-671C straight



136-671C

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

136-671D



136-671D

Jewelers Forceps

#1 / standard handle / extra delicate

14-6810 stainless
T14-6810 titanium



14-6810

#2 / standard handle / delicate / stair

14-6815
14-6816 TCD



14-6815

#3 / standard handle / standard

14-6830 stainless
T14-6830 titanium



14-6830

#3 / standard handle / standard / stainless / TCD

14-6831

#3C / standard handle / short

14-6820 stainless
T14-6820 titanium



T14-6820

#3C / standard handle / standard / stainless / TCD

14-6821

#4 / standard handle / standard

14-6840 stainless
T14-6840 titanium



14-6840

#5 / standard handle / extra delicate

14-6850 stainless
T14-6850 titanium



T14-6850

#7 / standard handle / curved

14-6870 stainless
T14-6860 titanium



T14-6860

Jewelers Forceps Titanium with Serrated Handle

Serrated handle / delicate / straight / 4 3/4" (12.1 cm)

2200-001T #1 tip
2200-0012T #2 tip
2200-0013T #3 tip

Serrated handle / delicate / #4 tip / straight / 4 1/4" (11 cm)

T14-6841

Serrated handle / 45 degree / sharp / #5 tip / 4 1/4" (11 cm)

2200-003T

Serrated handle / curved / sharp / #7 tip / 4 1/2" (11.4 cm)

T14-6875

Serrated handle / delicate / straight / #5 / 4 1/4" (10.8 cm)

T14-6855
T14-6855P with platform



T14-6841



2200-003T



T14-6875



T14-6855P



2200-001T



2200-0012T



2200-0013T

Jewelers Precision Forceps

Serrated handle

- 2200-001 #1
- 2200-0012 #2
- 2200-0013 #3
- 2200-0014 #4
- 2200-007 #PP
- 2200-003 #5 angled 45°
- 2200-0003 #5 angled 90°
- 2200-013 #5
- 2200-014 #5A
- 2200-0006 #6 angled 80°
- 2200-002 #7 curved



2200-007



2200-001



2200-0012



2200-0013



2200-0014



2200-003



2200-002



2200-013



2200-014



2200-0006



2200-0003

#00 Jewelers aka Cilia & Suture Removal Forceps

Fine Tip / TC Dust / 4 1/2" (11.5cm)

- 14-6805 stainless steel
- T14-6805 titanium



14-6805



T14-6805

Jewelers Forceps Titanium

Extra Long / Fine tip / serrated handle / TC Dust / 6 1/4" (16cm)

2200-007T



2200-007T

Mixer Streamline Right Angle Forceps

Right angle / 90° / 7 1/2" (19 cm)

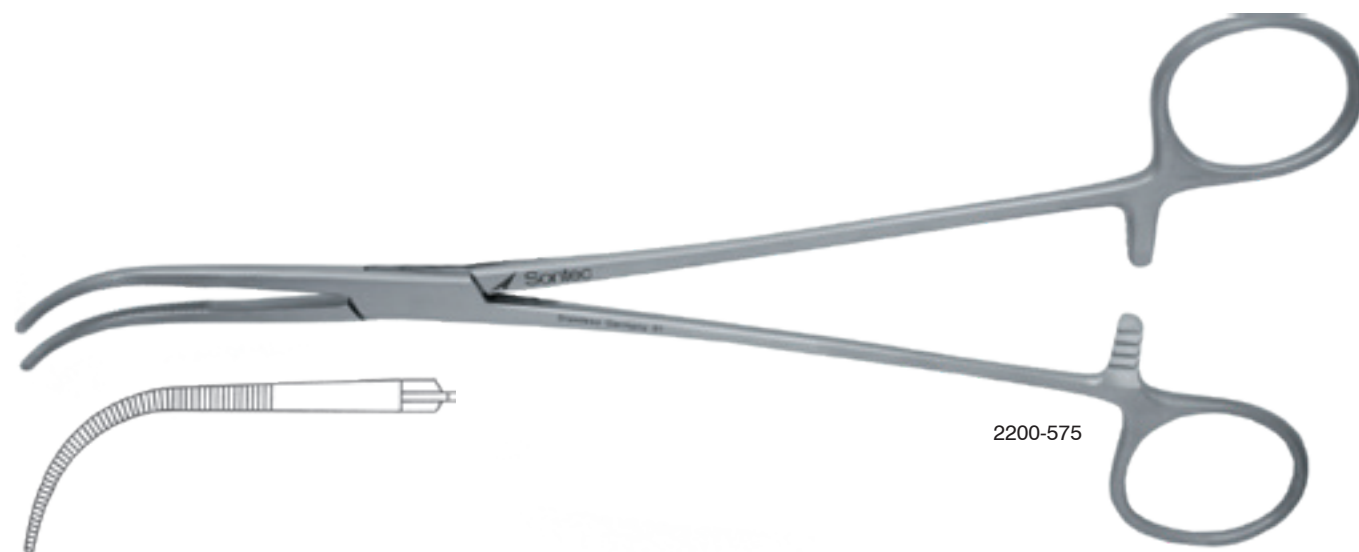
2200-553



Green Cystic Duct Right Angle Forceps

Right angle / 8 3/4" (22 cm)

2200-575



Baby Mixer Right Angle Forceps

Right angle / serrated

2200-520 5 1/4" (13.5 cm)

2200-522 7" (18 cm)

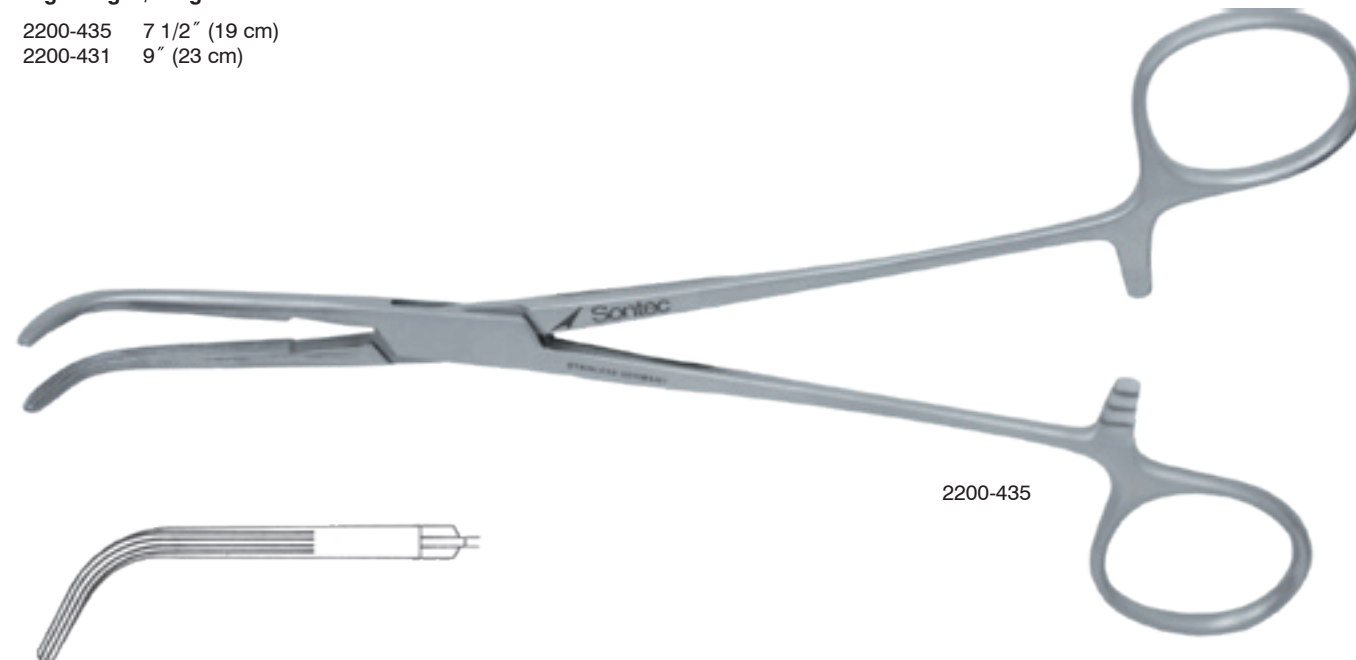


Lahey-Sweet Hemostatic Right Angle Forceps

Right angle / longitudinal serrations

2200-435 7 1/2" (19 cm)

2200-431 9" (23 cm)



Jacobson-Gemini Mixer Right Angle Forceps

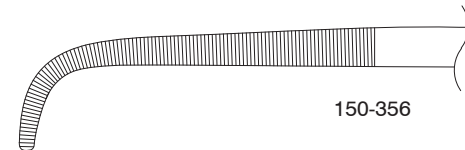
Full curve

150-348	5" (12.7 cm)
150-349	5 1/2" (14 cm)
150-350	6 1/4" (16 cm)
150-351	7 1/8" (18.25 cm)
150-353	8" (20 cm)
150-355	9" (23 cm)
150-356	10" (25.5 cm)
150-357	11" (28 cm)
150-361	12" (30.5 cm)
150-358	14" (35.5 cm)
150-359	16" (40.5 cm)

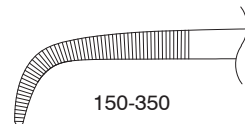


150-348

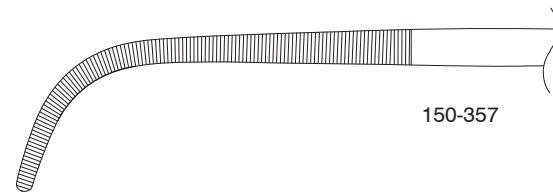
150-348



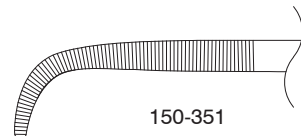
150-356



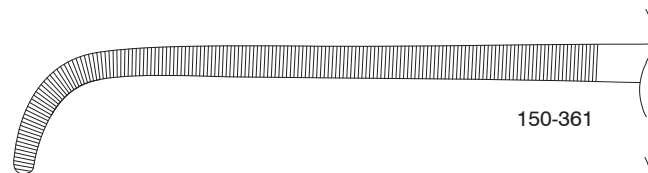
150-350



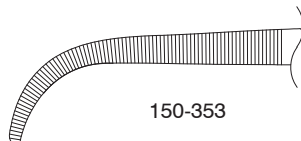
150-357



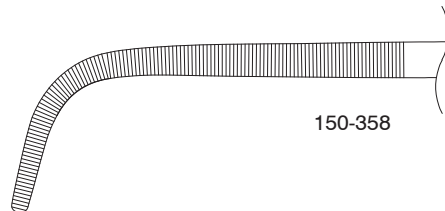
150-351



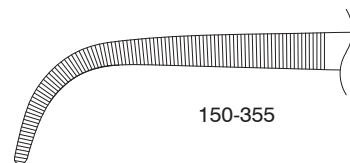
150-361



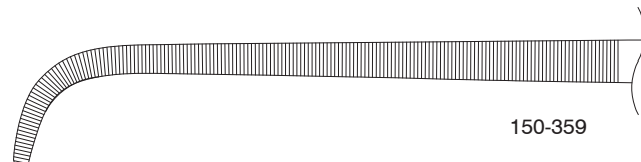
150-353



150-358



150-355

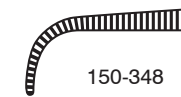


150-359

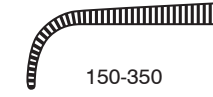
Jacobson-Gemini Mixer Right Angle Forceps

Full curve

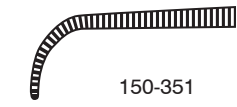
150-348	5" (12.7 cm)
150-349	5 1/2" (14 cm)
150-350	6 1/4" (16 cm)
150-351	7 1/8" (18.25 cm)
150-353	8" (20 cm)
150-355	9" (23 cm)



150-348



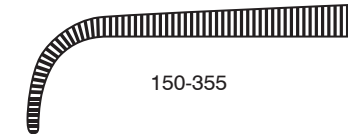
150-350



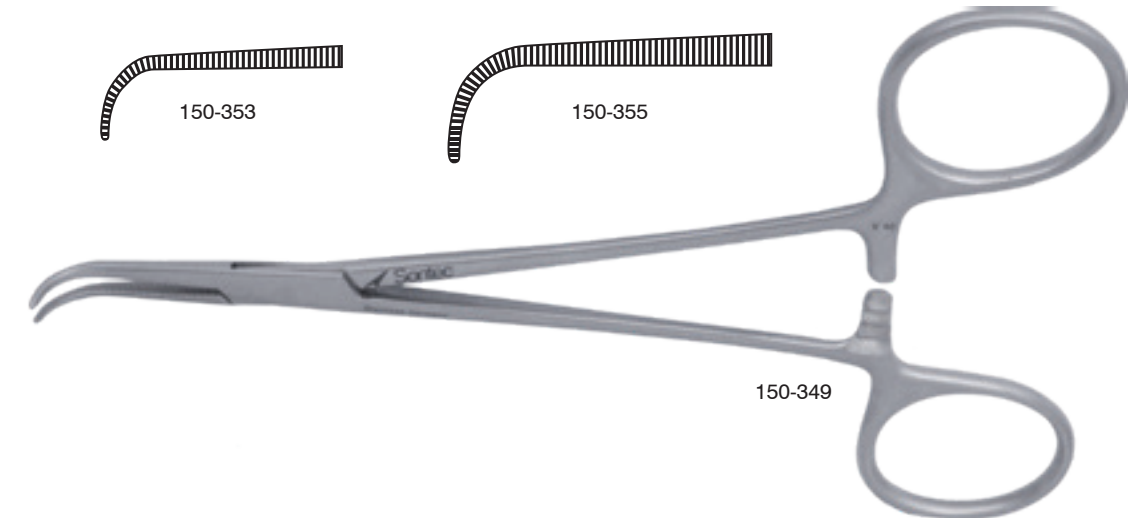
150-351



150-353



150-355



150-349

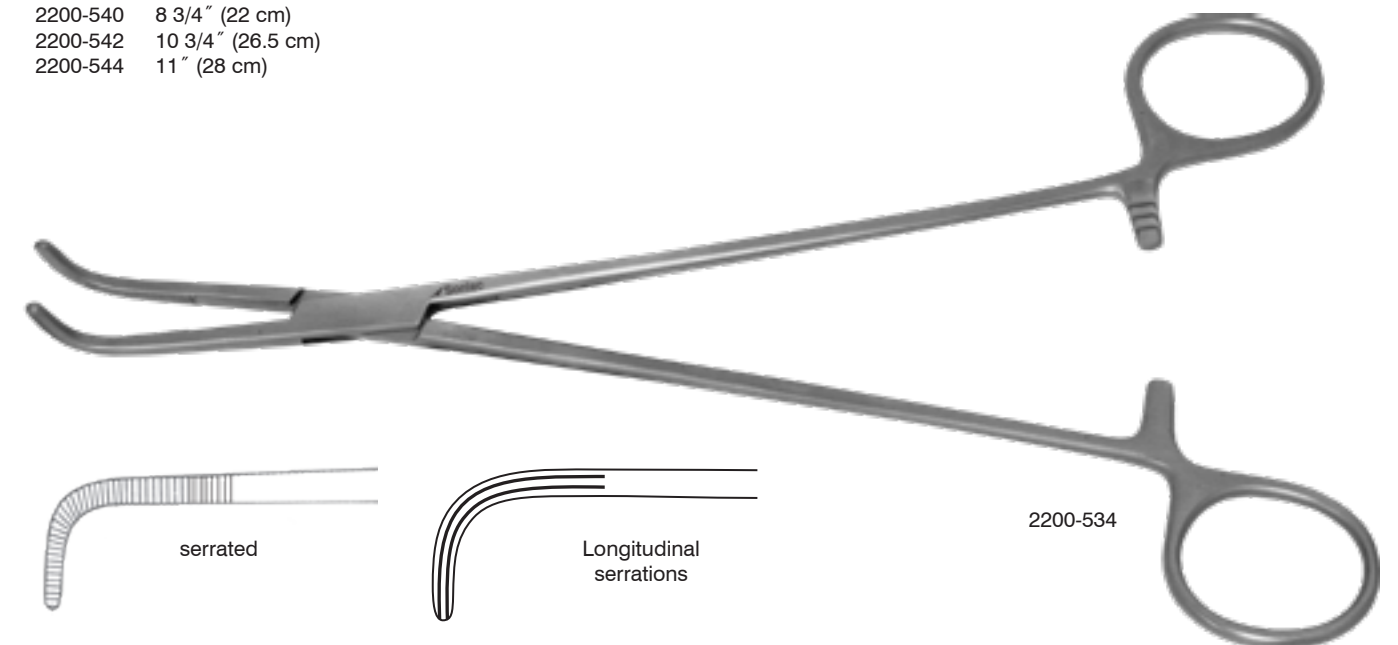
Mixer Right Angle Forceps

Right angle / serrated

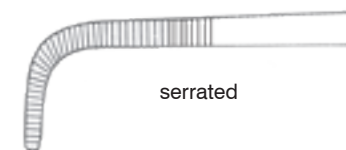
2200-530	6 1/4" (15 cm)
2200-532	7" (18 cm)
2200-534	9" (23 cm)
2200-536	10 3/4" (26.5 cm)

Right angle / longitudinal serrations

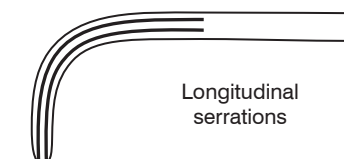
2200-540	8 3/4" (22 cm)
2200-542	10 3/4" (26.5 cm)
2200-544	11" (28 cm)



2200-534



serrated



Longitudinal
serrations

Mixer-Paul Right Angle Forceps

Right angle / serrated / 8" (20 cm)

2200-550



Micro Tip Mixer Right Angle Forceps

Partial serrated / 90° angle / 5 1/4" (13 cm)

2200-521

Serrated / 90° angle / 7 1/4" (18.5 cm)

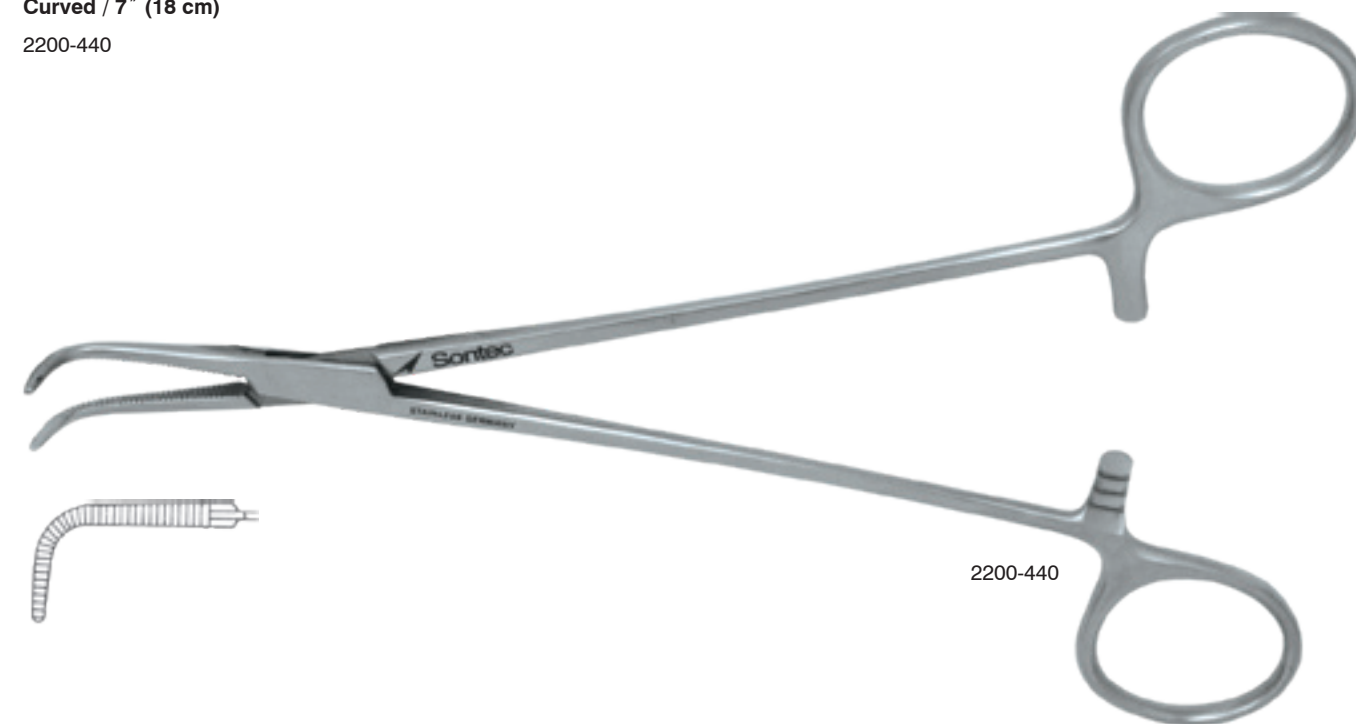
2200-523A



Meeker Hemostatic Right Angle Forceps

Curved / 7" (18 cm)

2200-440

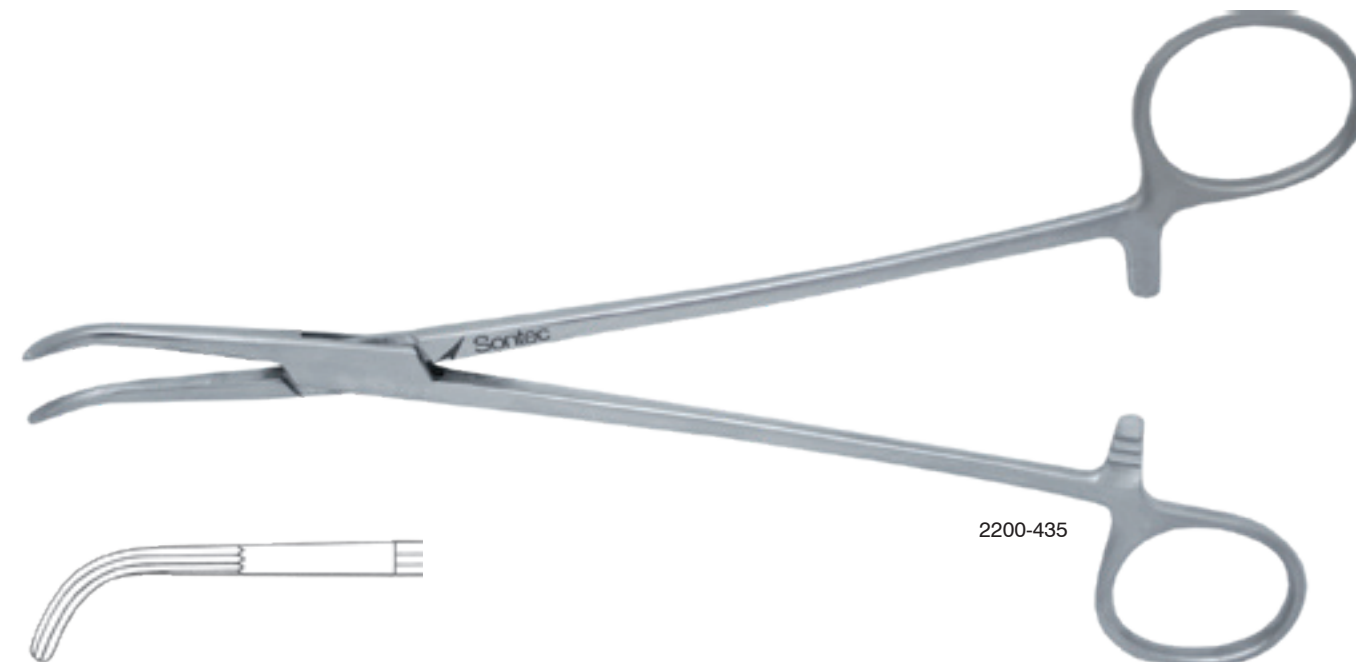


Lahey Right Angle Forceps

Longitudinal Serrations

2200-435 7 1/2" (19 cm)

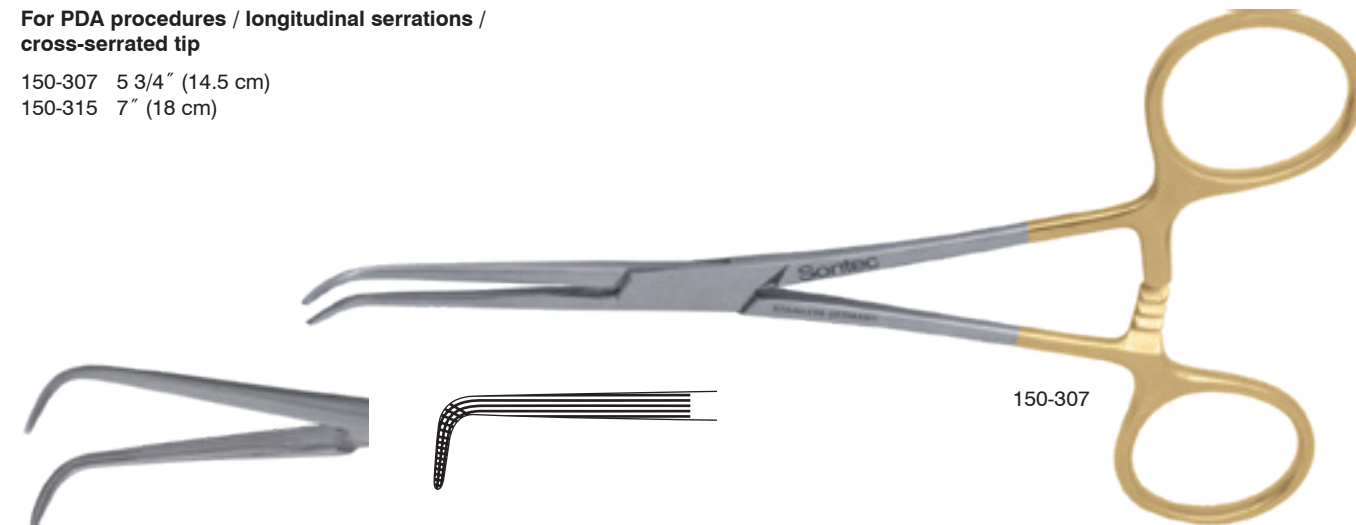
2200-430 9" (23 cm)



Olsen-Lahey Right Angle Forceps

For PDA procedures / longitudinal serrations / cross-serrated tip

150-307 5 3/4" (14.5 cm)
150-315 7" (18 cm)



Bailey Hemostatic Acute Angle Forceps

Extra-fine tapered jaws / 30° angle

2200-526 5 1/4" (13 cm)
2200-524 7" (18 cm)
2200-537 9" (23 cm)



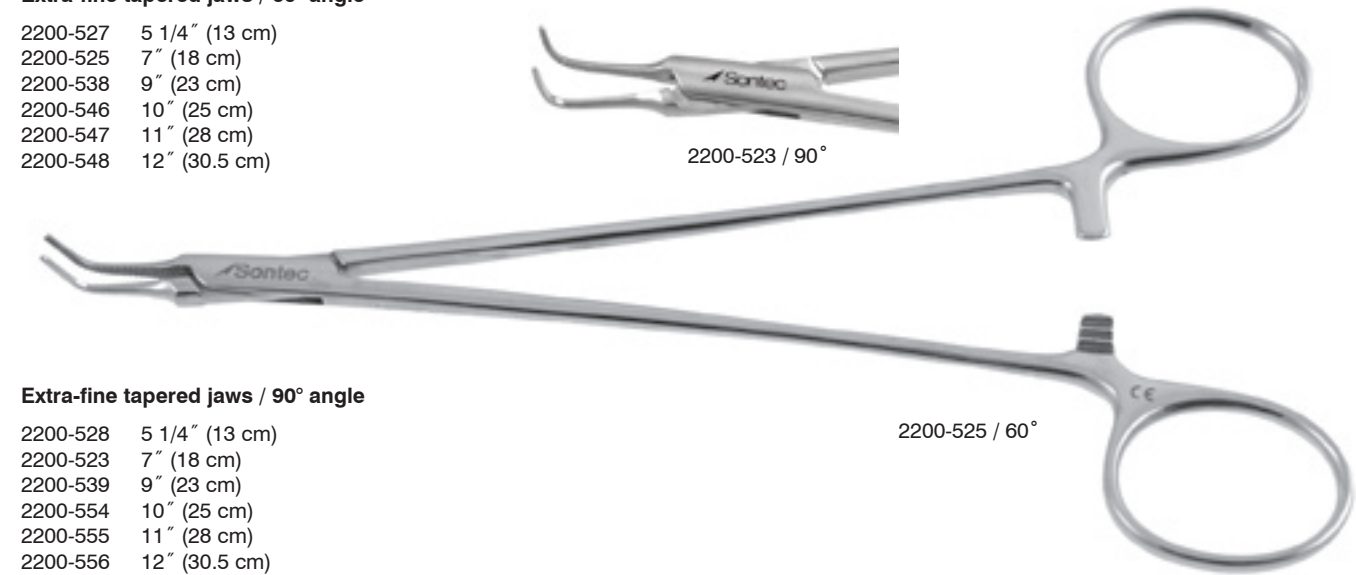
Extra-fine tapered jaws / 60° angle

2200-527 5 1/4" (13 cm)
2200-525 7" (18 cm)
2200-538 9" (23 cm)
2200-546 10" (25 cm)
2200-547 11" (28 cm)
2200-548 12" (30.5 cm)



Extra-fine tapered jaws / 90° angle

2200-528 5 1/4" (13 cm)
2200-523 7" (18 cm)
2200-539 9" (23 cm)
2200-554 10" (25 cm)
2200-555 11" (28 cm)
2200-556 12" (30.5 cm)



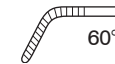
Ochsner Acute Angle Forceps

Extra-fine tapered jaws / 4 3/4" (12 cm)

2200-518 60°
2200-519 90°

5 1/2" (14 cm)

2200-516 60°
2200-517 90°



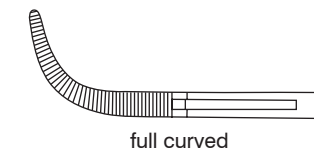
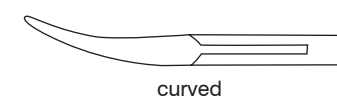
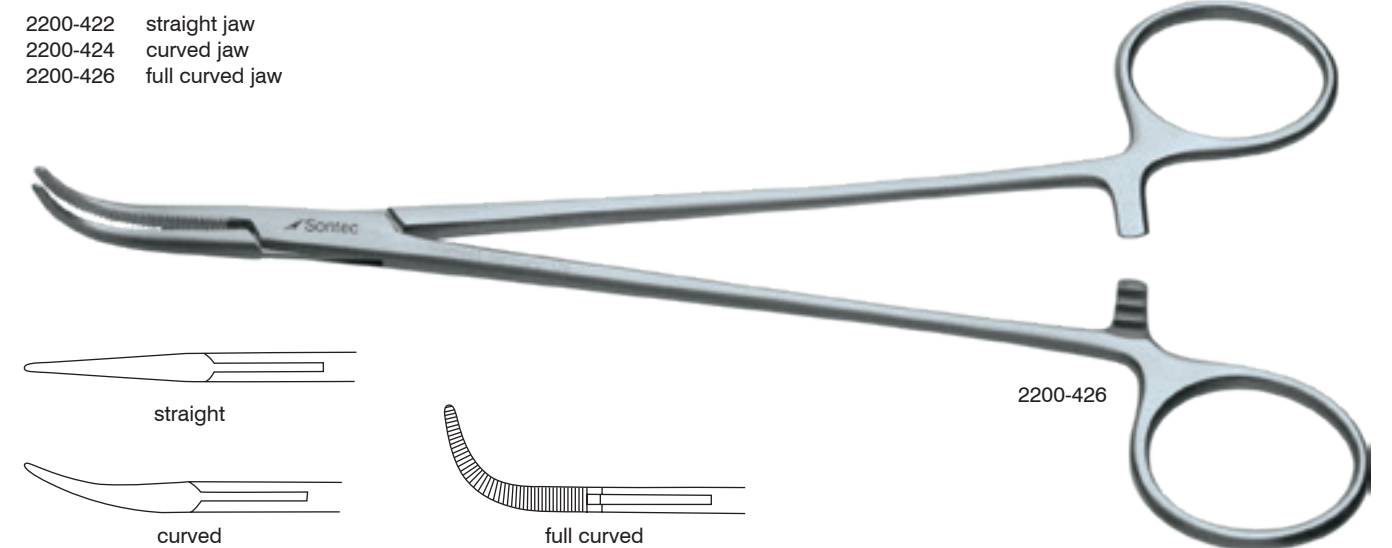
Adson Forceps

5 1/4" (13.3 cm)

2200-420 curved

7 1/2" (19 cm)

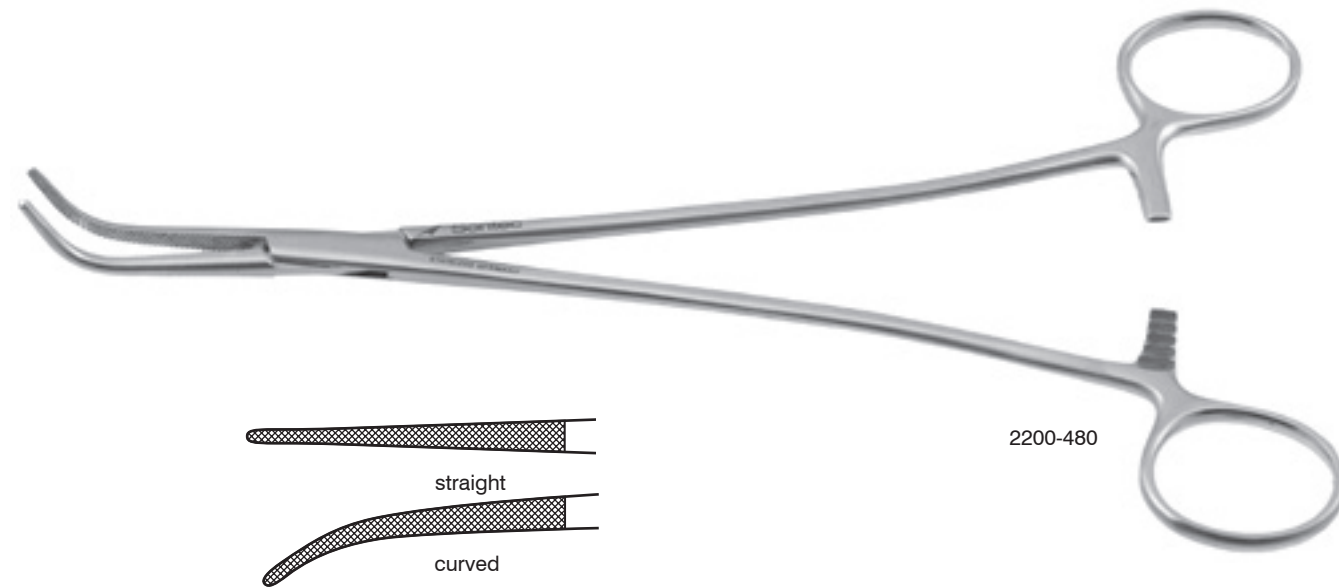
2200-422 straight jaw
2200-424 curved jaw
2200-426 full curved jaw



Bengolea Hemostatic Forceps

Cross-serrated

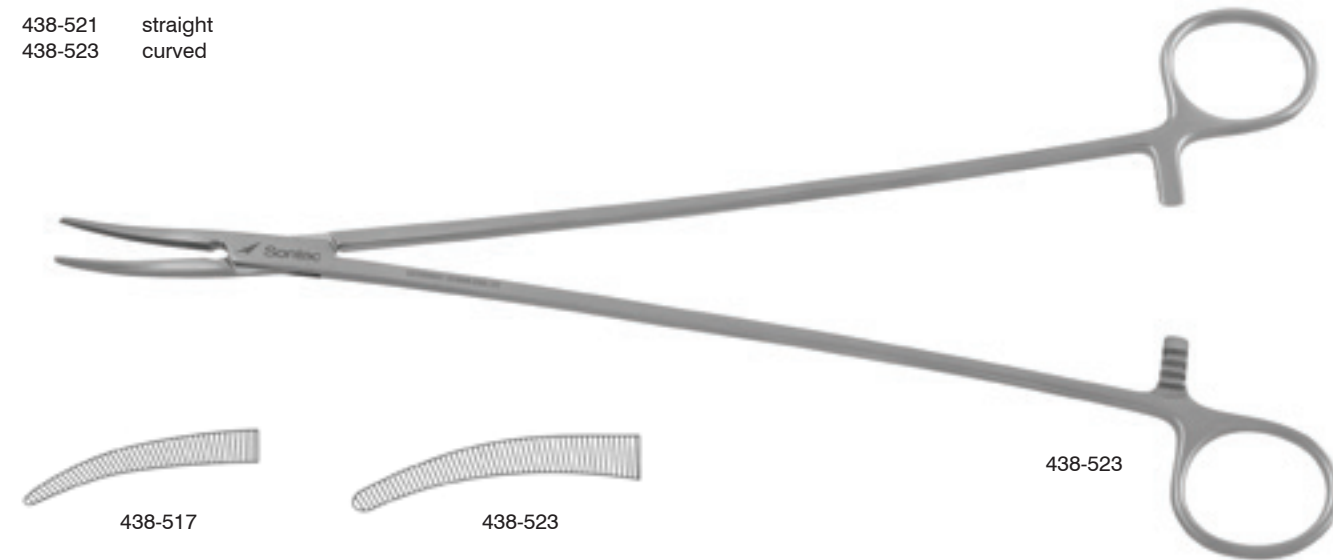
2200-480	right angle	8 1/4" (21 cm)
2200-490	straight	8 3/4" (22.2 cm)
2200-492	curved	8 3/4" (22.2 cm)
2200-482	right angle	9" (22.9 cm)
2200-496	curved	9 1/2" (24.1 cm)



Bridge Forceps

11" (28 cm)

438-521	straight
438-523	curved



Jacobson Hemostatic Forceps

Delicate / 6" (15 cm)

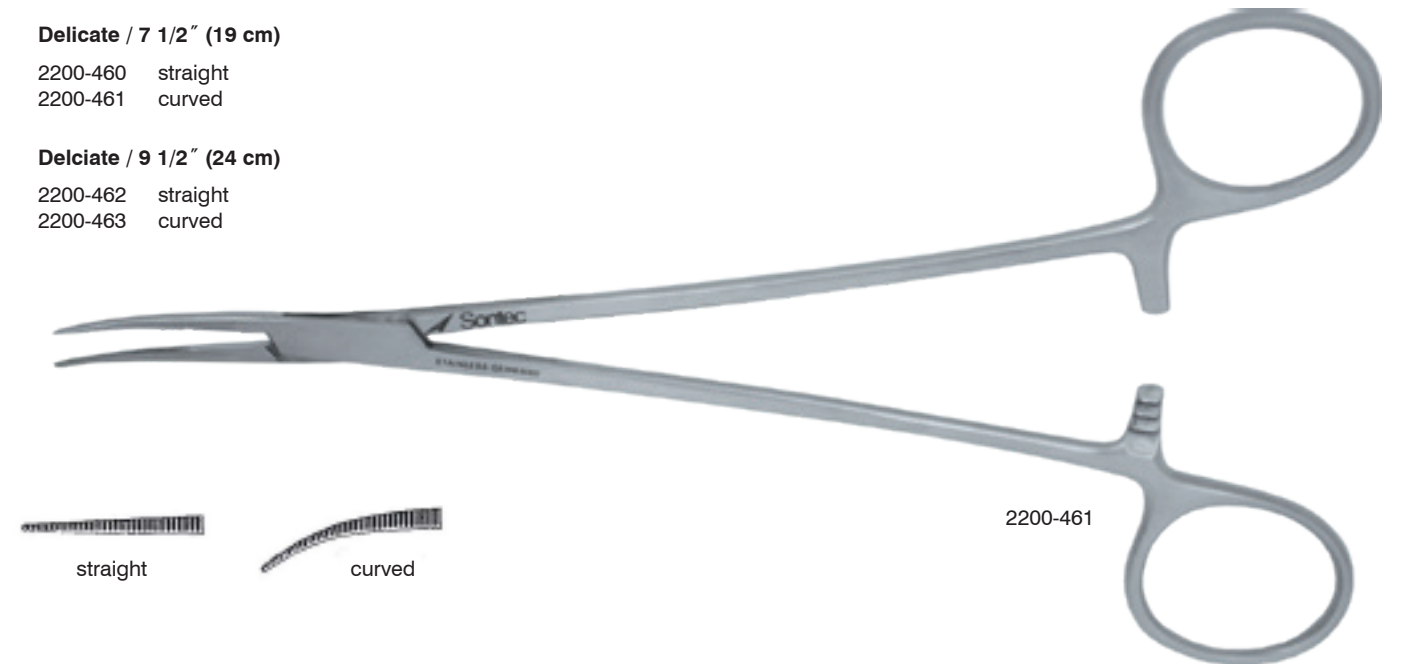
2200-464	straight
2200-465	curved

Delicate / 7 1/2" (19 cm)

2200-460	straight
2200-461	curved

Delciate / 9 1/2" (24 cm)

2200-462	straight
2200-463	curved



Julian Thoracic Artery Forceps

Curved / 9 1/4" (23.5 cm)

2200-529



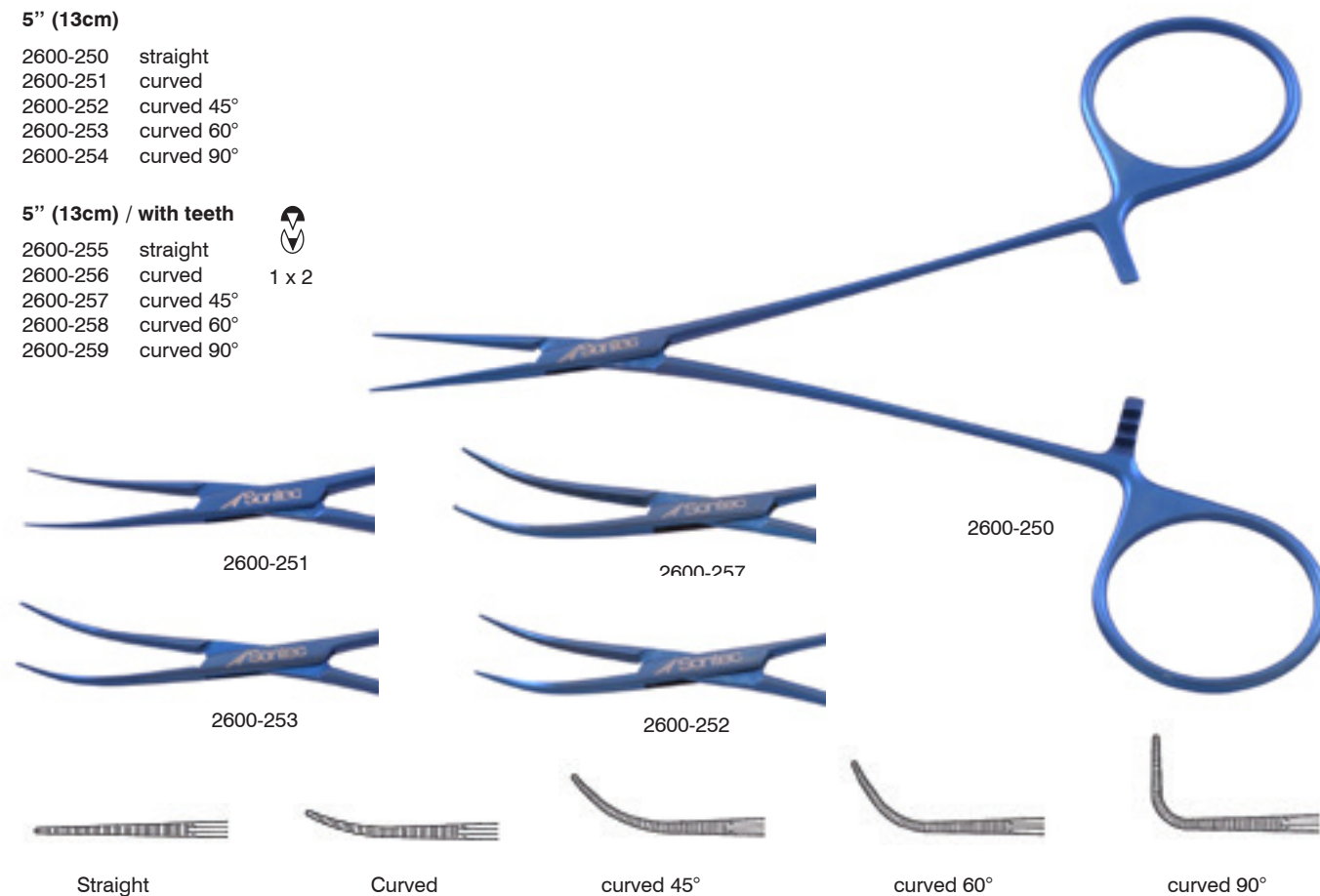
Extra Delicate Mosquito Forceps Titanium

5" (13cm)

2600-250	straight
2600-251	curved
2600-252	curved 45°
2600-253	curved 60°
2600-254	curved 90°

5" (13cm) / with teeth

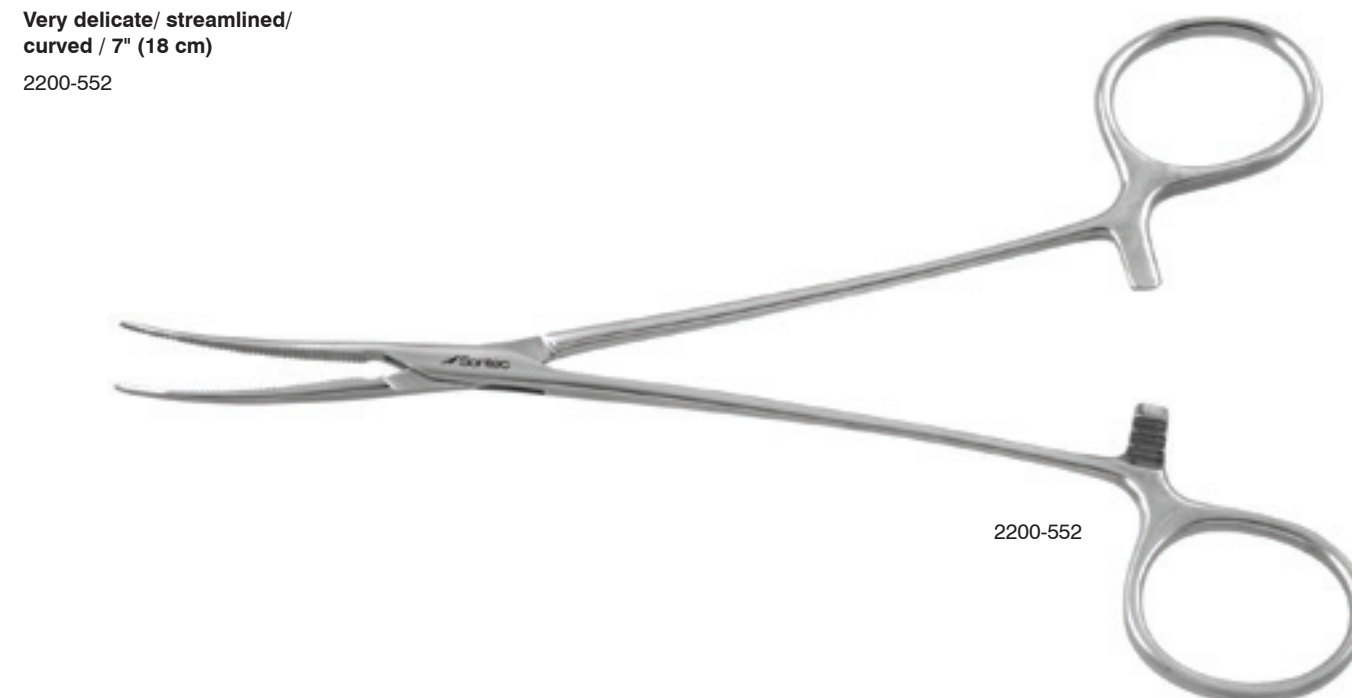
2600-255	straight	 1 x 2
2600-256	curved	
2600-257	curved 45°	
2600-258	curved 60°	
2600-259	curved 90°	



Nihlen Forceps

Very delicate/ streamlined/
curved / 7" (18 cm)

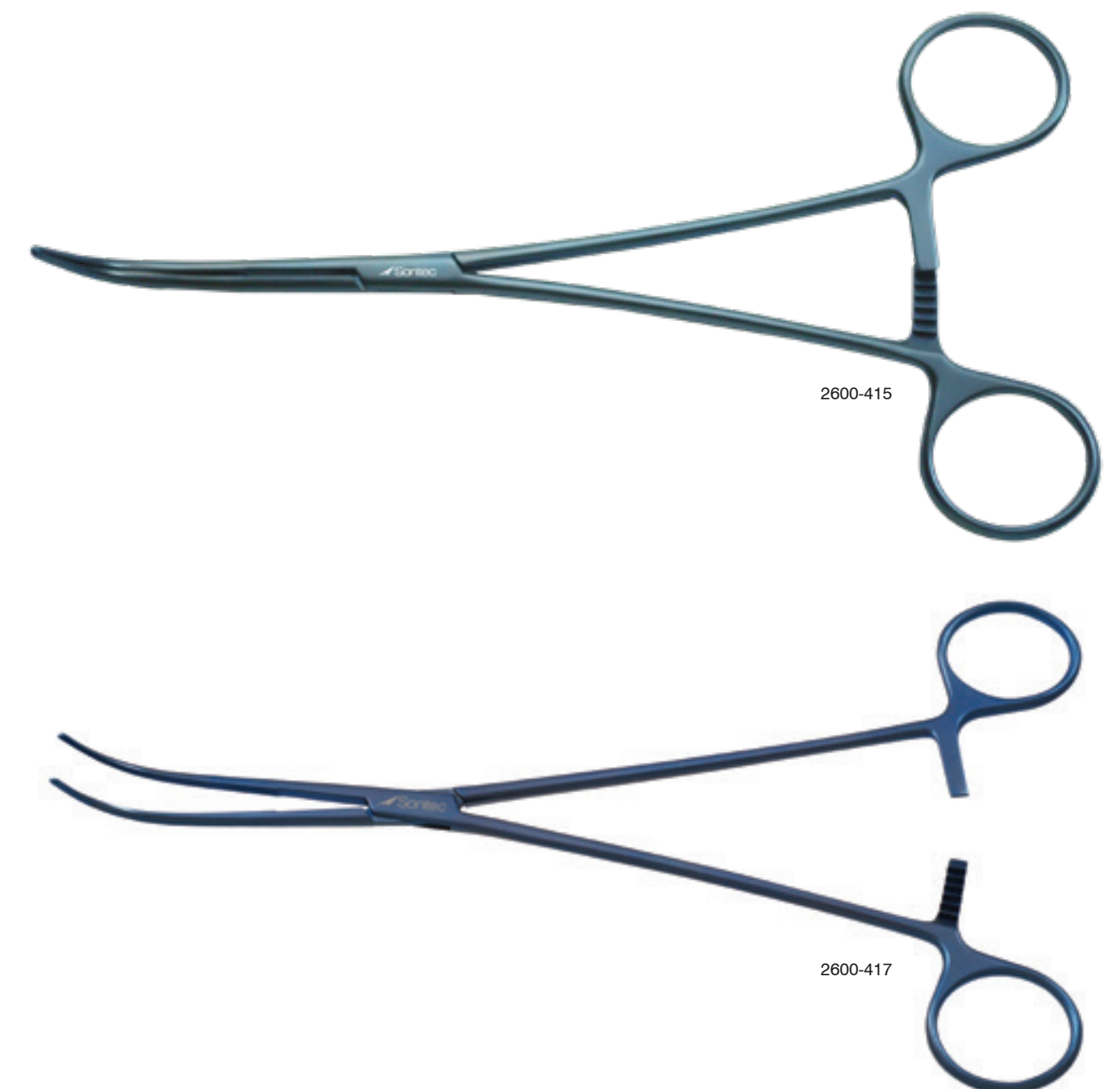
2200-552



O'Shaughnessy Forceps Titanium

Curved / multi-rachet

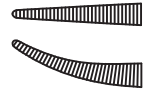
2600-415	7 1/2" (19 cm)
2600-417	8 3/4" (22.2 cm)



Hartman Mosquito Forceps

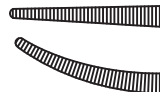
Delicate / 3 1/2" (9 cm)

115-426D straight
115-428D curved



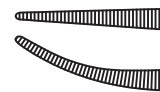
Standard / 3 1/2" (9 cm)

115-426 straight
115-428 curved



Micro tip / 3 3/4" (9.5 cm)

115-310 straight
115-312 curved



Shank angled on flat / straight/ 3 1/2" (9cm)

115-429



straight

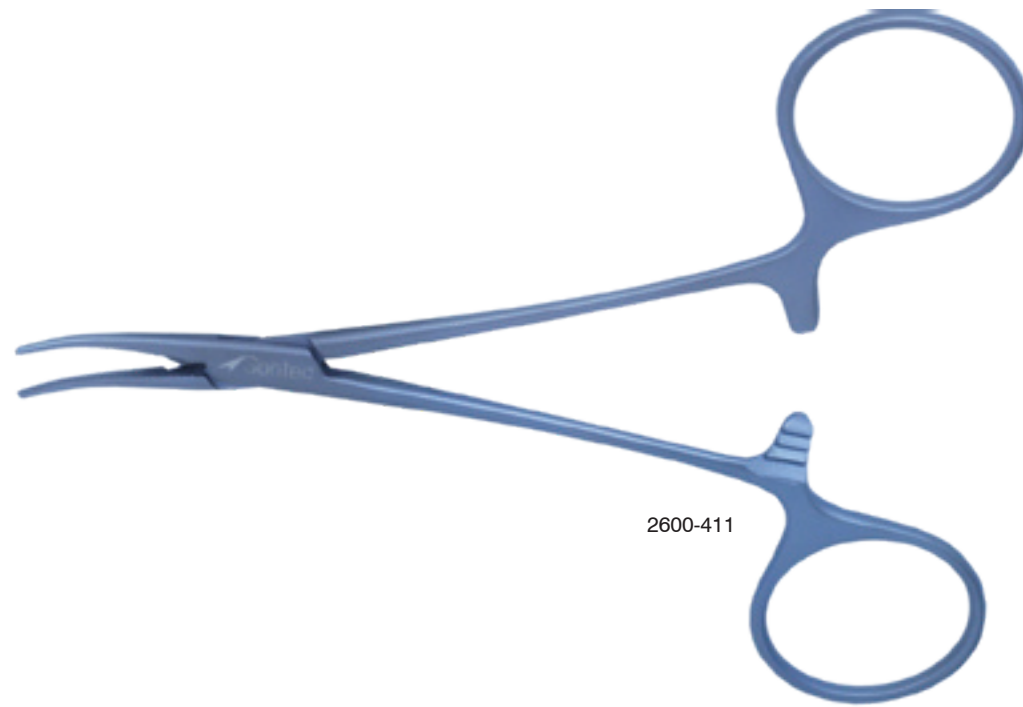


115-426

Halstead Mosquito Forceps Titanium

5" (12.5 CM)

2600-409 straight
2600-411 curved



2600-411

Halstead Mosquito Forceps

5" (13 cm)

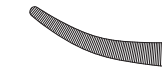
115-410 straight standard
115-410D straight delicate
115-412 curved standard
115-412D curved delicate
1100-140L curved standard left

Blue coated / standard / 5" (13 cm)

115-4121 curved

Curved/ streamlined/ 5" (13 cm)

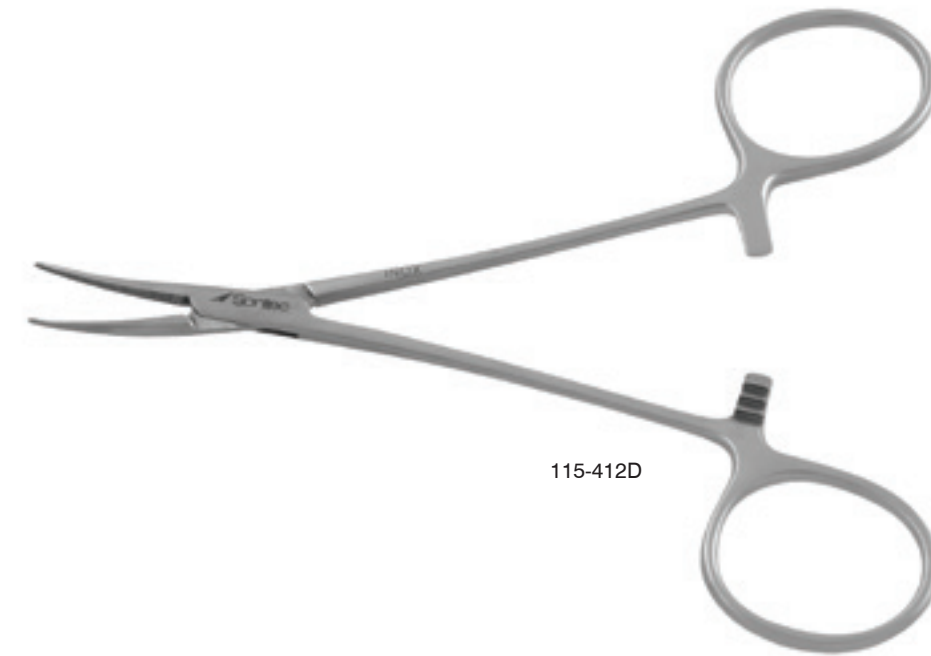
115-412S



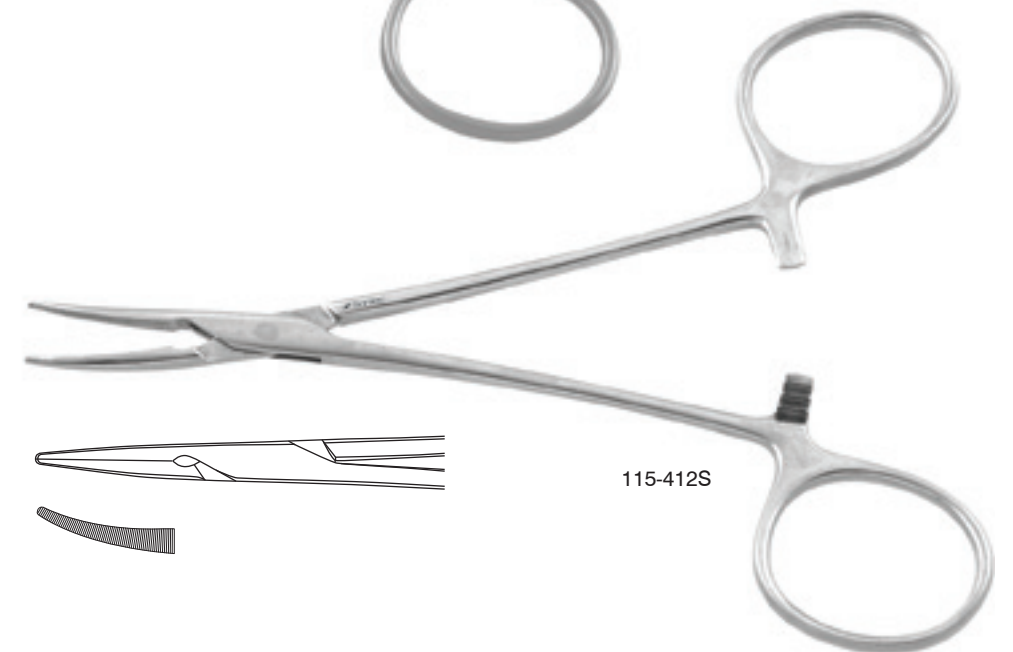
115-412



115-410



115-412D



115-412S

Halstead Mosquito Forceps

Standard / 1 x 2 teeth / 5" (13 cm)

115-422 straight
115-424 curved

Specially tapered jaws / straight / 1 x 2 micro teeth / 5" (13 cm)

115-422M



1 x 2 teeth
straight



1 x 2 teeth
curved



115-422M

Hartmann Mosquito Forceps Titanium

3 7/8" (10.2 cm)

2600-410 straight
2600-412 curved



Halstead Mosquito Forceps

Standard / 6 1/4" (15.5 cm)

115-408 curved



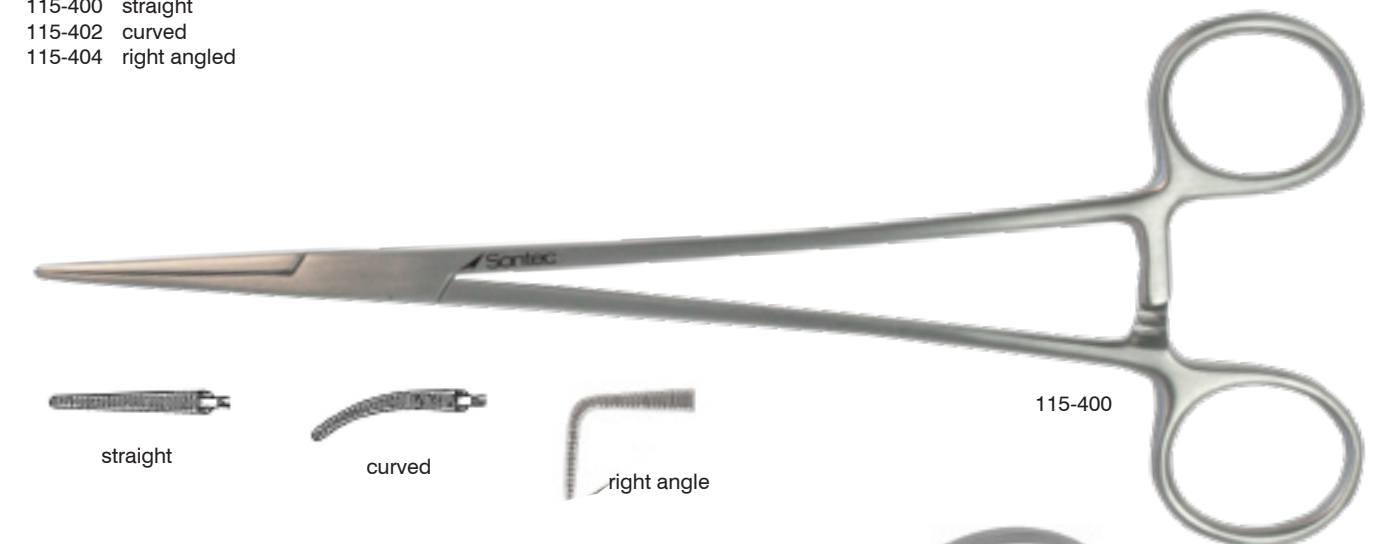
115-408



curved

Standard / 8 1/4" (21 cm)

115-400 straight
115-402 curved
115-404 right angled



115-400



straight



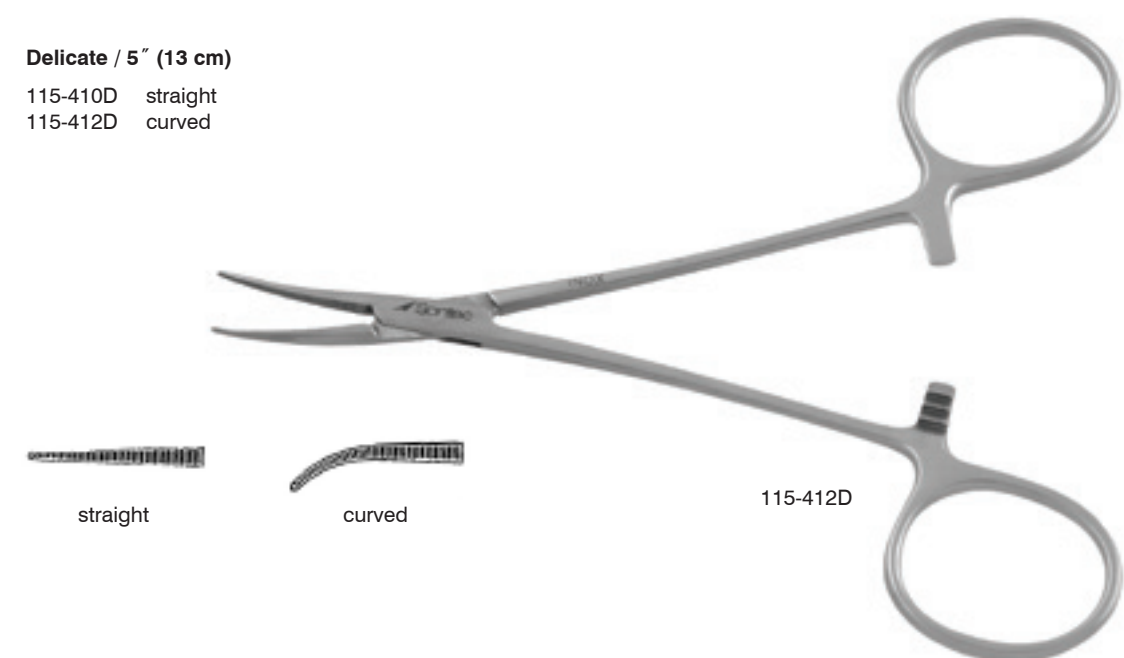
curved



right angle

Delicate / 5" (13 cm)

115-410D straight
115-412D curved



115-412D



straight



curved

Hartman Micro Tip Mosquito Forceps

3 1/2" (8.9 cm)

115-310 straight
115-312 curved

4 3/4" (12cm)

115-316 straight
115-318 curved

6" (15 cm)

115-320 straight
115-322 curved
115-407 curved petite point

6 1/4" (15.5 cm)

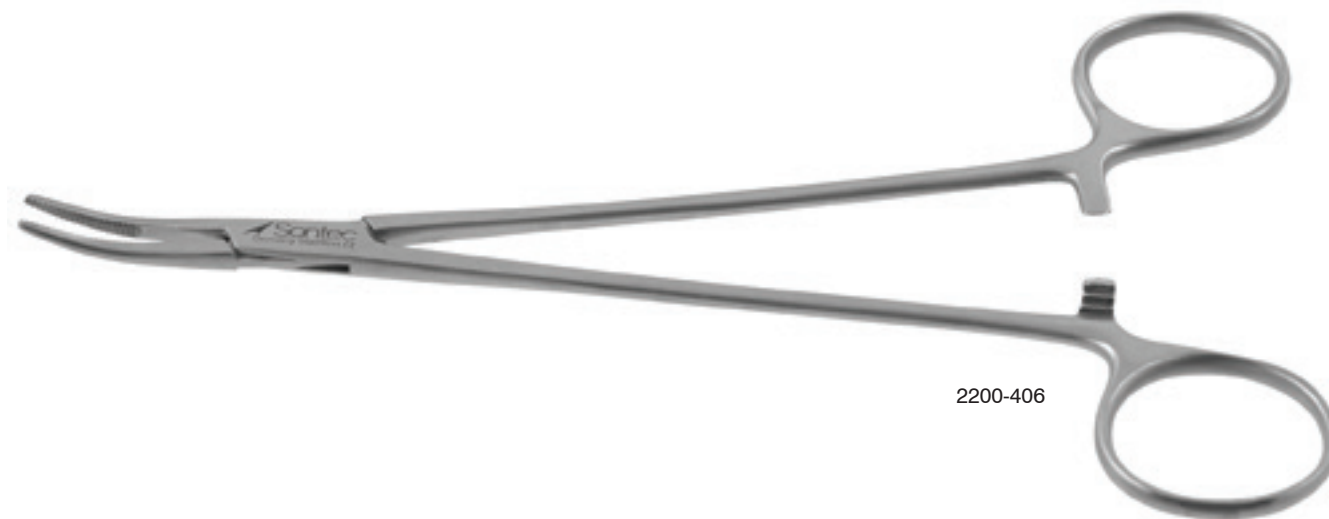
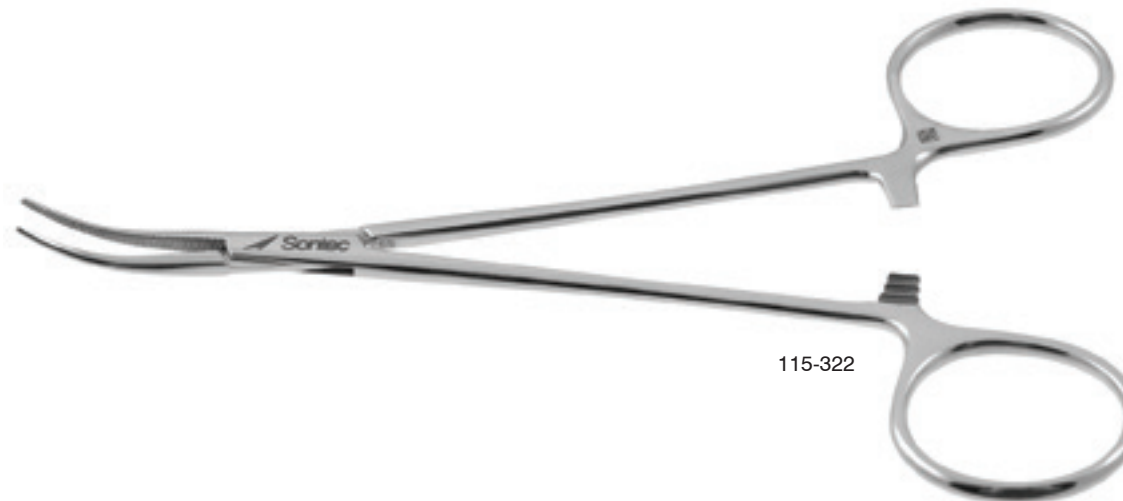
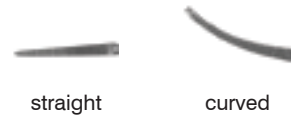
115-408 curved

7 1/8" (18 cm)

412-319 straight
412-321 curved

7 1/2" (19 cm)

2200-404 straight
2200-406 curved



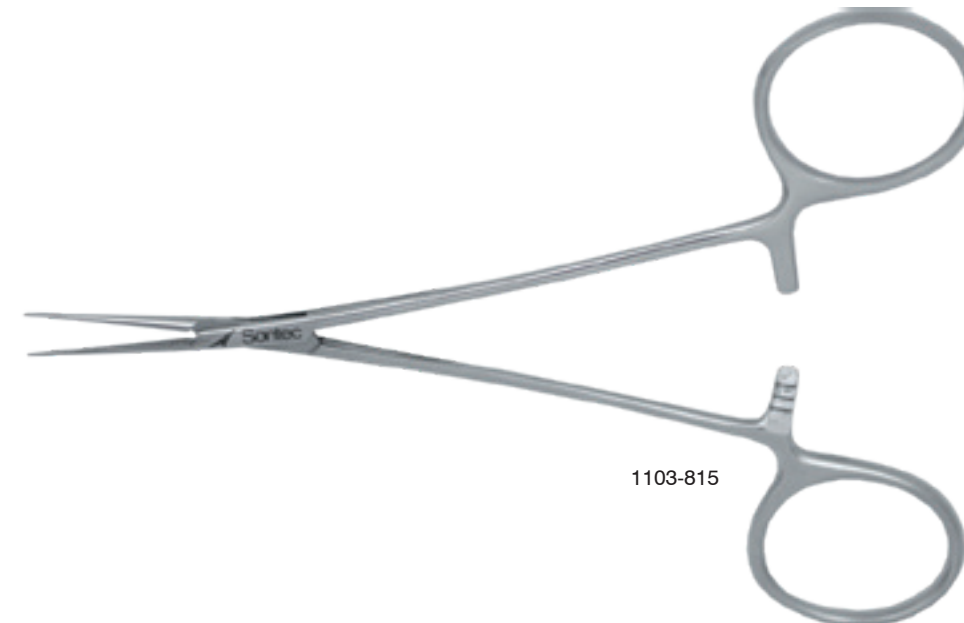
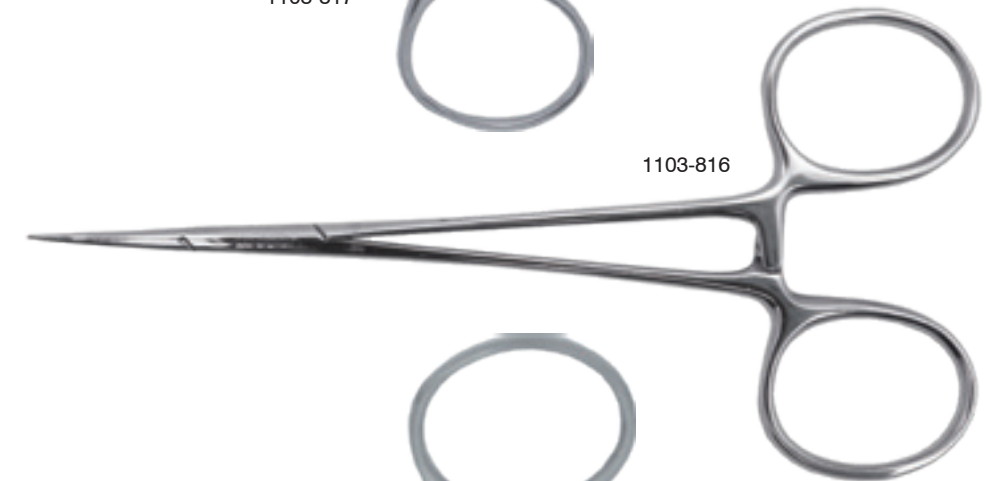
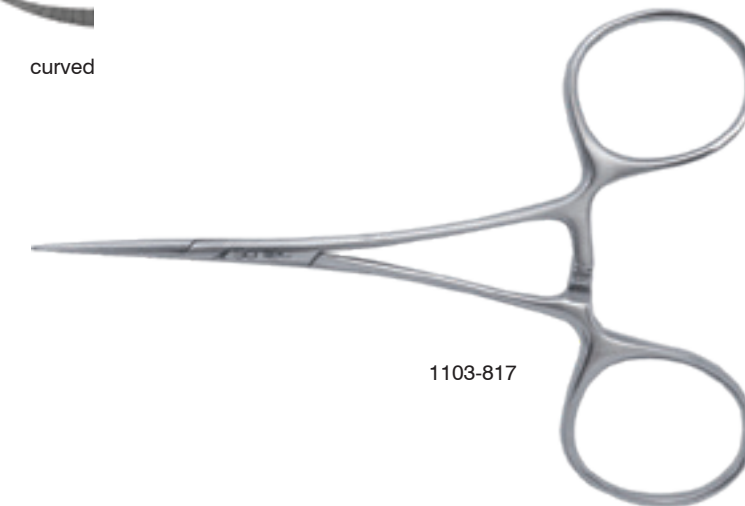
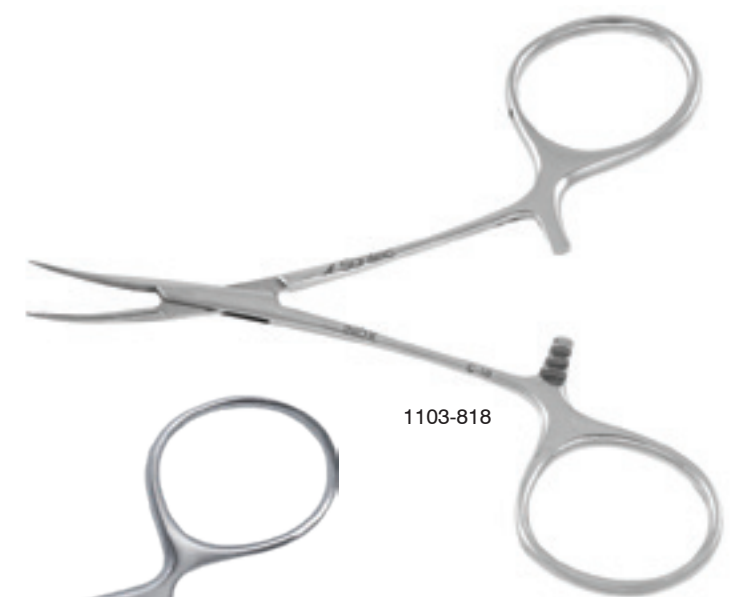
Sontec Mosquito Forceps

Extreme micro / overall extremely delicate design / 1 mm tip / 3 3/4" (9.5 cm)

1103-817 straight
1103-818 curved

Extreme micro / overall extremely delicate design / 1 mm tip / 5" (13 cm)

1103-815 straight
1103-816 curved



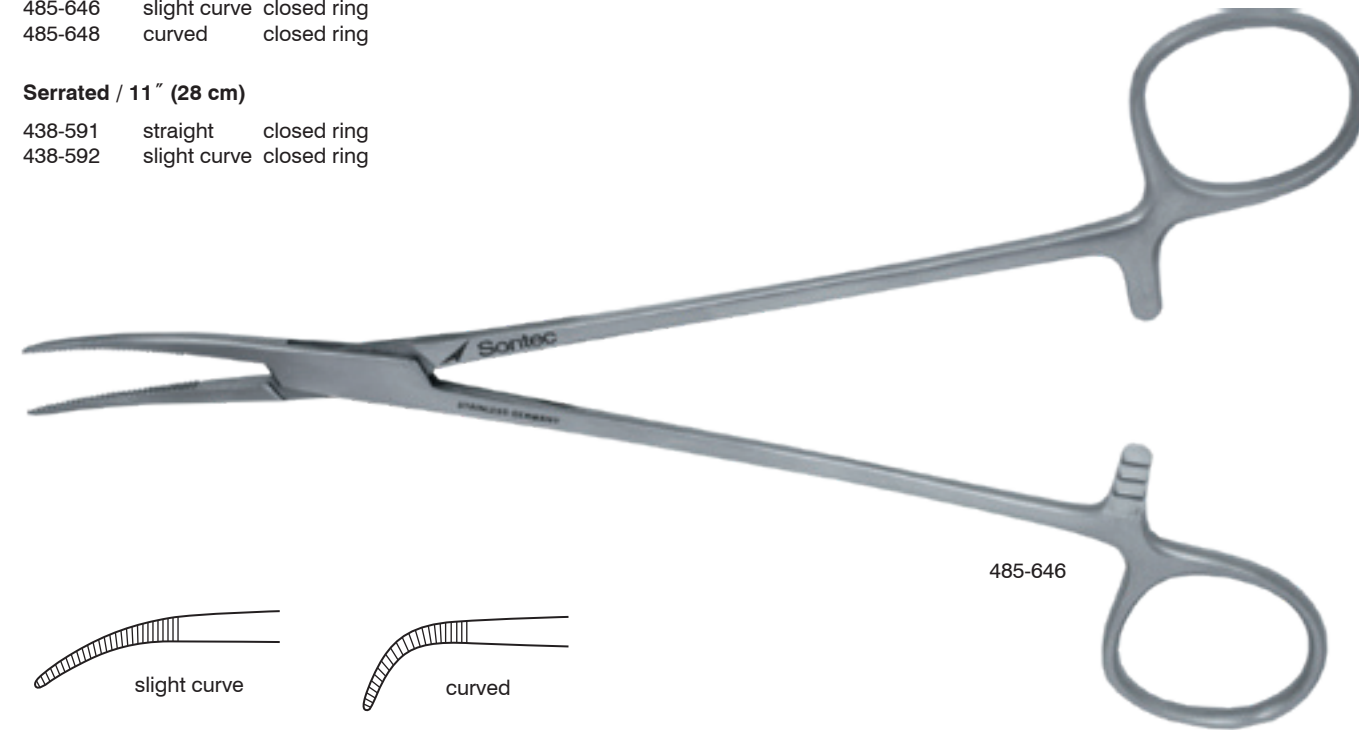
Schmidt Hemostatic Forceps

Serrated / 7 1/2" (19cm)

485-634	slight curve	
485-636	curved	
485-646	slight curve	closed ring
485-648	curved	closed ring

Serrated / 11" (28 cm)

438-591	straight	closed ring
438-592	slight curve	closed ring



Halstead Mosquito Forceps

Petit Point / curved

115-407	6" (14 cm)
---------	------------



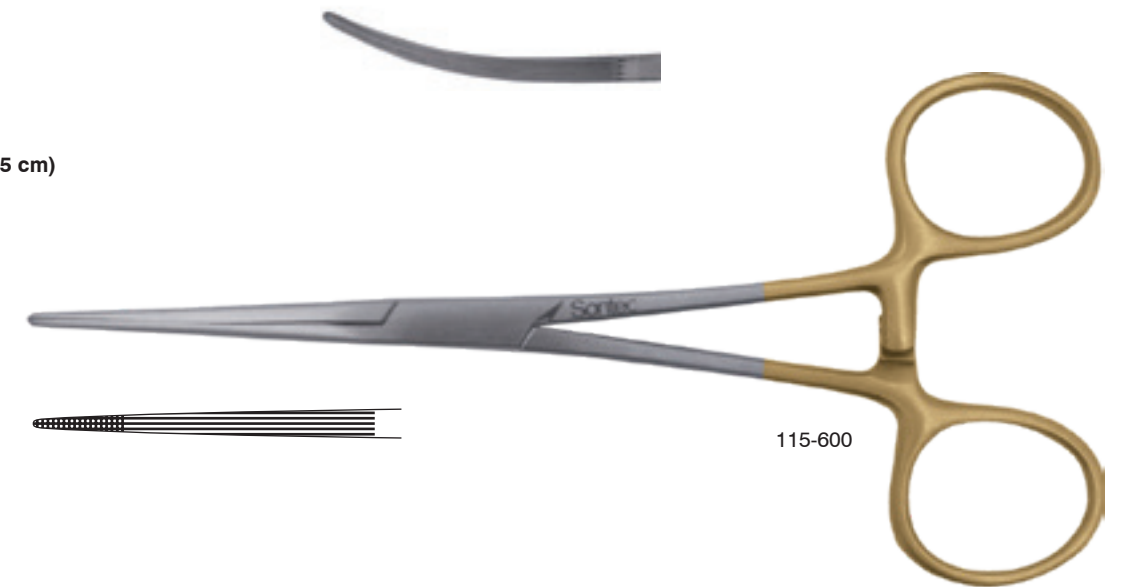
Bainbridge Forceps

Delicate / Longitudinal serrations with cross-serrated tip / 6" (15 cm)

115-600	straight
115-602	curved

Delicate / Longitudinal serrations with cross-serrated tip / 7 1/4" (18.5 cm)

115-604	straight
115-606	curved



Stay Suture Clamp Forceps

4 3/4" (12.1 cm)

130-515	straight
---------	----------



Crile Forceps

5 1/2" (14 cm)

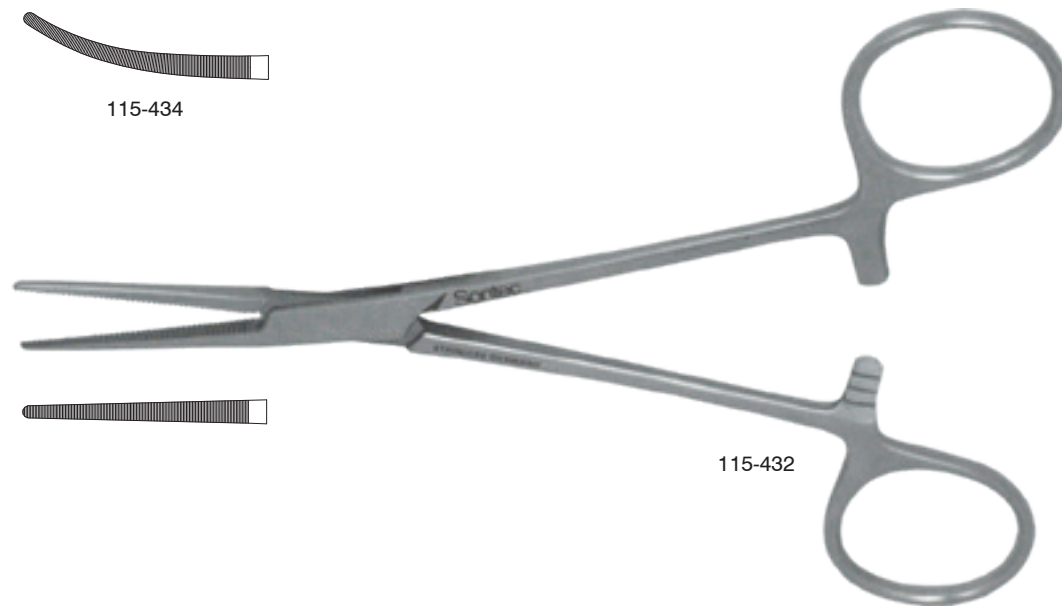
115-432 straight
115-434 curved

6 1/4" (16 cm)

115-450 straight
115-452 curved



115-434



115-432

Titanium / 6 1/4" (16 cm)

T115-452 curved
T115-450 straight



T115-452

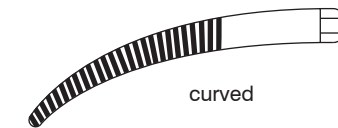
Rankin-Kelly Forceps

6 1/4" (16 cm)

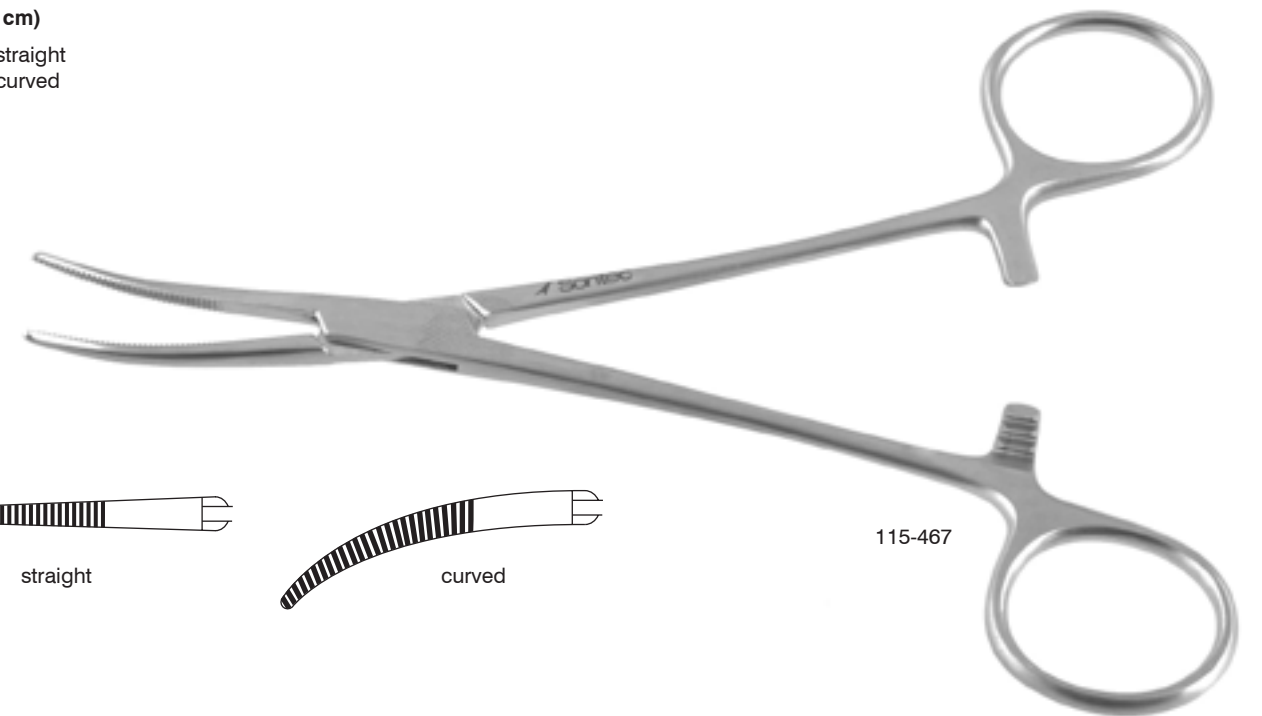
115-465 straight
115-467 curved



straight



curved



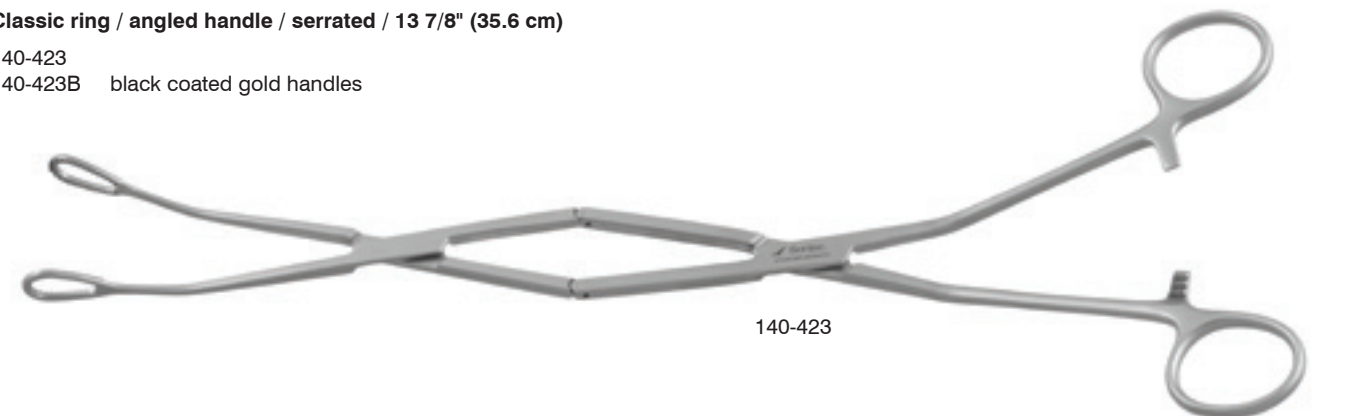
115-467

Entopic Double Articulating Clamp

Classic ring / angled handle / serrated / 13 7/8" (35.6 cm)

140-423

140-423B black coated gold handles



140-423

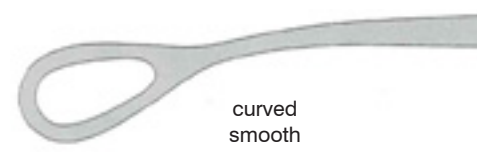
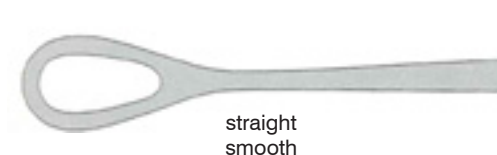


140-423B

Foerster Sponge Forceps

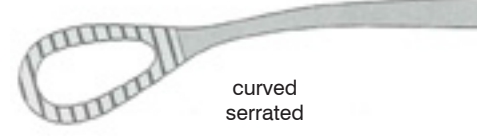
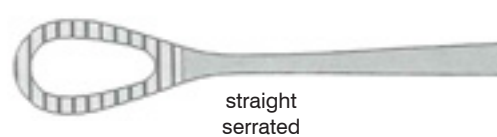
Straight / serrated

123-601 7" (18 cm)
123-603 8" (20.5 cm)
123-606 9 1/2" (24 cm))



Straight / smooth

123-600 7" (18 cm)
123-605 9 1/2" (24 cm)



Curved / serrated

123-611 7" (18 cm)
123-608 8" (20.5 cm)
123-616 9 1/2" (24 cm)

Curved / smooth

123-610 7" (18 cm)
123-615 9 1/2" (24 cm)



Foerster Sponge Forceps

Serrated / straight

123-618 13" (33 cm)
123-617 14" (35.5 cm)
123-619 16" (40.5 cm)



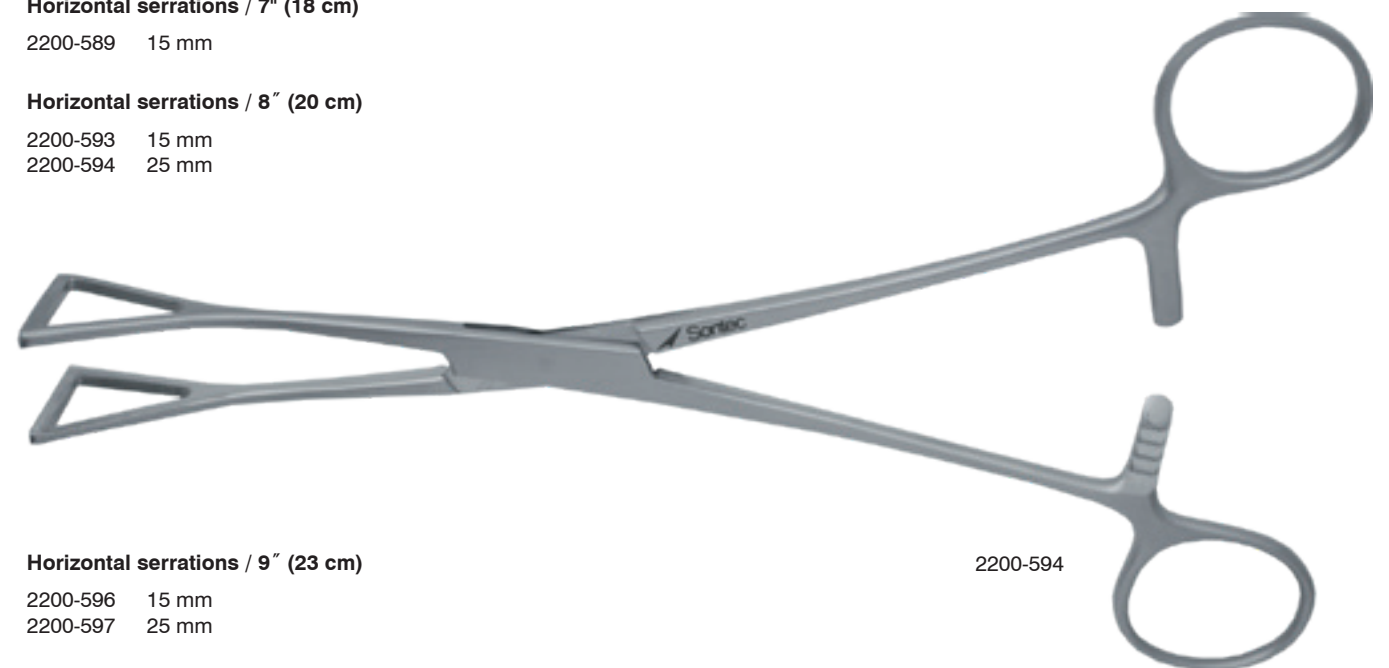
Duval-Collin Forceps

Horizontal serrations / 7" (18 cm)

2200-589 15 mm

Horizontal serrations / 8" (20 cm)

2200-593 15 mm
2200-594 25 mm



Horizontal serrations / 9" (23 cm)

2200-596 15 mm
2200-597 25 mm

Debakey / 9" (23 cm)

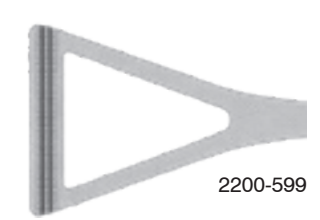
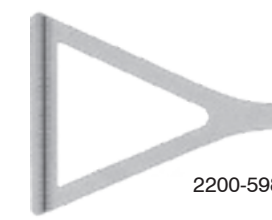
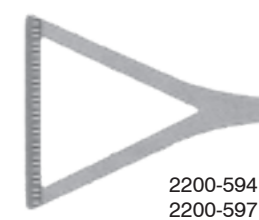
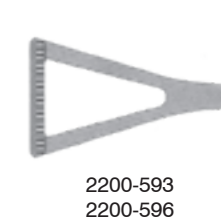
2200-598 25 mm

Double debakey / 9" (23 cm)

2200-599 25 x 5mm

Serrated / 11" (30 cm)

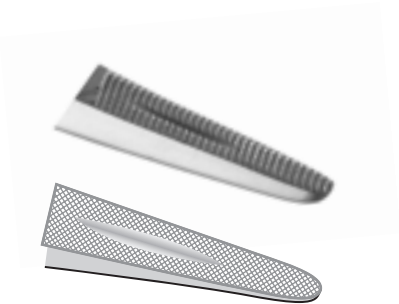
2200-600 25 x 5mm





Sontec® offers variety of needle holder styles to choose from

Classic Serrated Jaws
(no inserts)

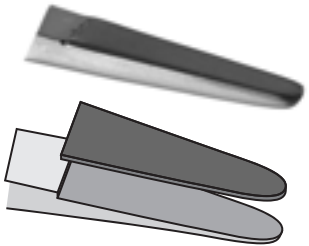


Classic Jaws

- stainless
- most often a serrated pattern
- featuring satin rings

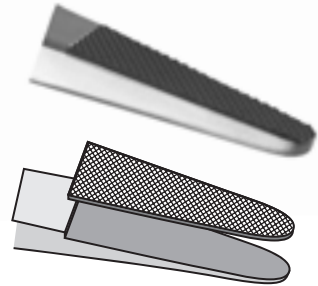
TC Smooth Inserts

- a rigid, clean & flat surface
- for delicate use
- eliminates needle scoring for a smooth pass each time



TC Serrated Inserts

- a diamond serrated teeth-like pattern
- 2,600 & 4,200 teeth per square inch for medium to heavier needles
- 7,000 & 10,000 teeth per square inch for small to micro needles



Jaws with TC Inserts

- diamond ground tungsten carbide
- incredibly hard & durable
- for a more secure grasp of the needle, preventing rotation & slippage
- featuring gold rings

TC Dust (no inserts)

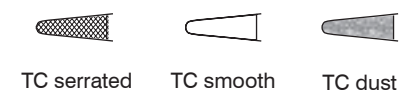
- a very thin coating applied
- an almost smooth yet remarkably gritty surface
- eliminates needle scoring for a smooth pass each time



Halsey Needle Holder

5" (12.5 cm)

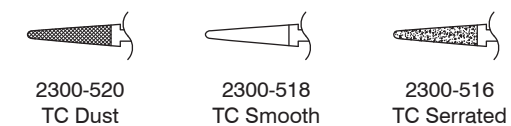
130-517	serrated without TC/standard
130-518	smooth without TC/standard
132-372	TC serrated
132-374	TC smooth
132-373	TC Dust



Webster Needle Holder

4 3/4" (12 cm)

1100-392	serrated w/out TC
2300-516	TC serrated
2300-518	TC smooth
2300-520	TC dust
2300-521	6" TC dust



Mayo-Hegar Needle Holder

Serrated jaws without TC

130-527	6 1/4" (15 cm)
130-529	7 1/4" (18 cm)
130-531	8" (20 cm)



130-527



130-529



130-531

Tungsten carbide serrated jaws

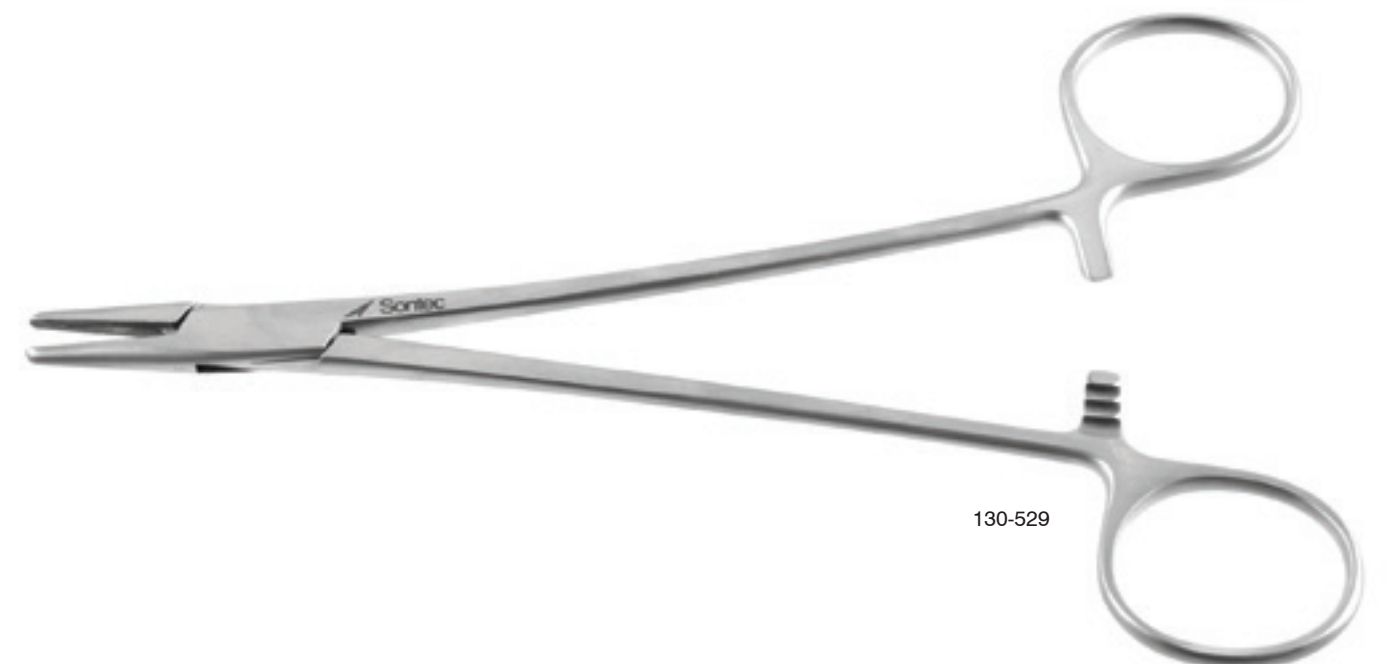
2300-328	5 3/4" (14.6 cm)
132-115	6 1/4" (15 cm)
1100-114L	7 1/4" (18 cm)
132-118	7 1/4" (18 cm)
132-120	8" (20 cm)
132-122	9" (23 cm)
132-123	10" (25 cm)
132-125	12" (30 cm)
1100-853	14" (35 cm)
1100-851	16" (40 cm)
1100-854	18" (45 cm)



132-115



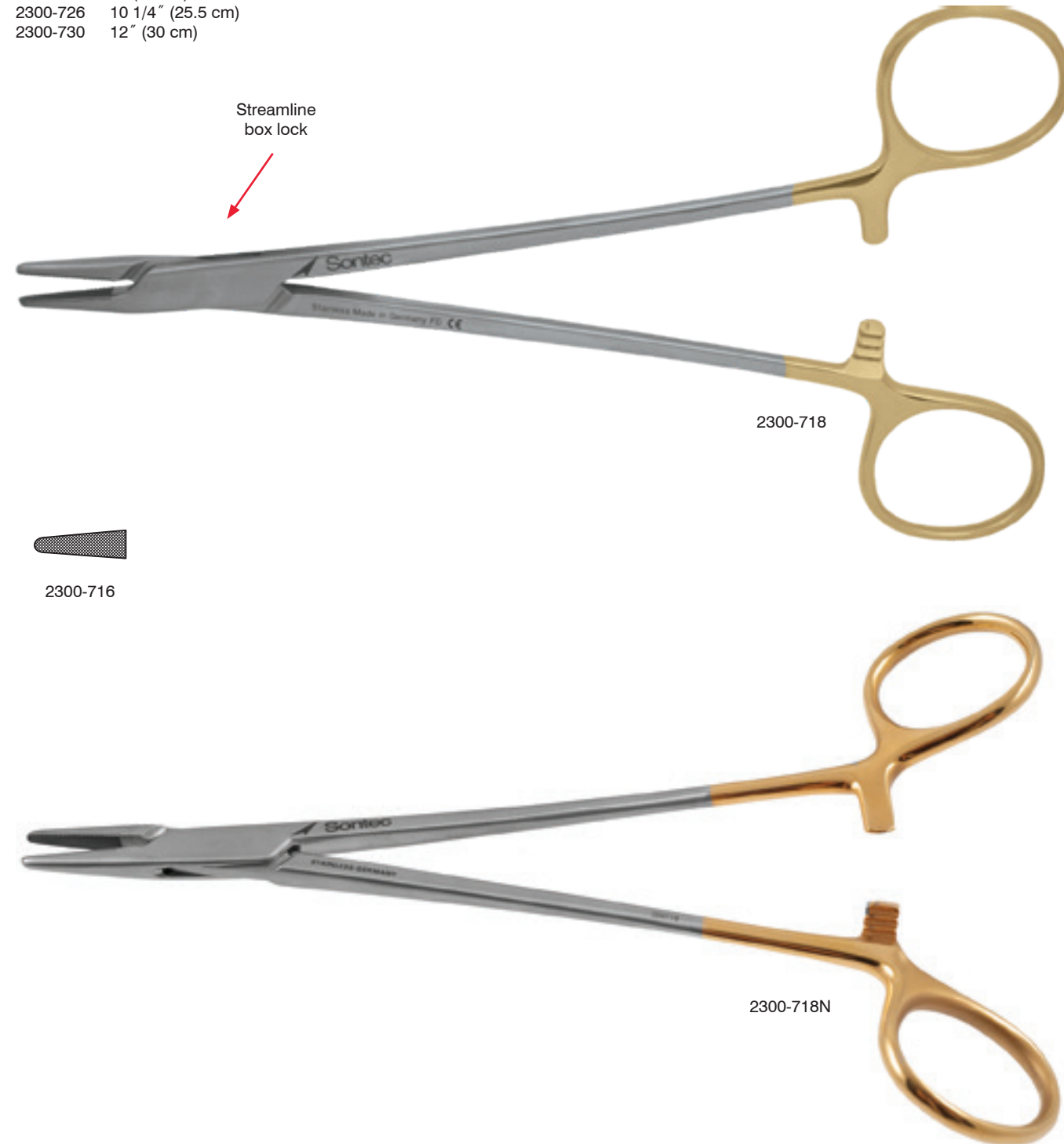
132-118



Mayo-Hegar Streamlined Needle Holder

Tungsten carbide serrated jaws / streamlined box lock

2300-714	5 3/4" (14.5 cm)	
2300-716	6 1/4" (16 cm)	
2300-718	7" (18 cm)	
2300-718N	7" (18 cm)	Neivert offset rings
2300-720	8" (20 cm)	
2300-723	9" (23 cm)	
2300-726	10 1/4" (25.5 cm)	
2300-730	12" (30 cm)	



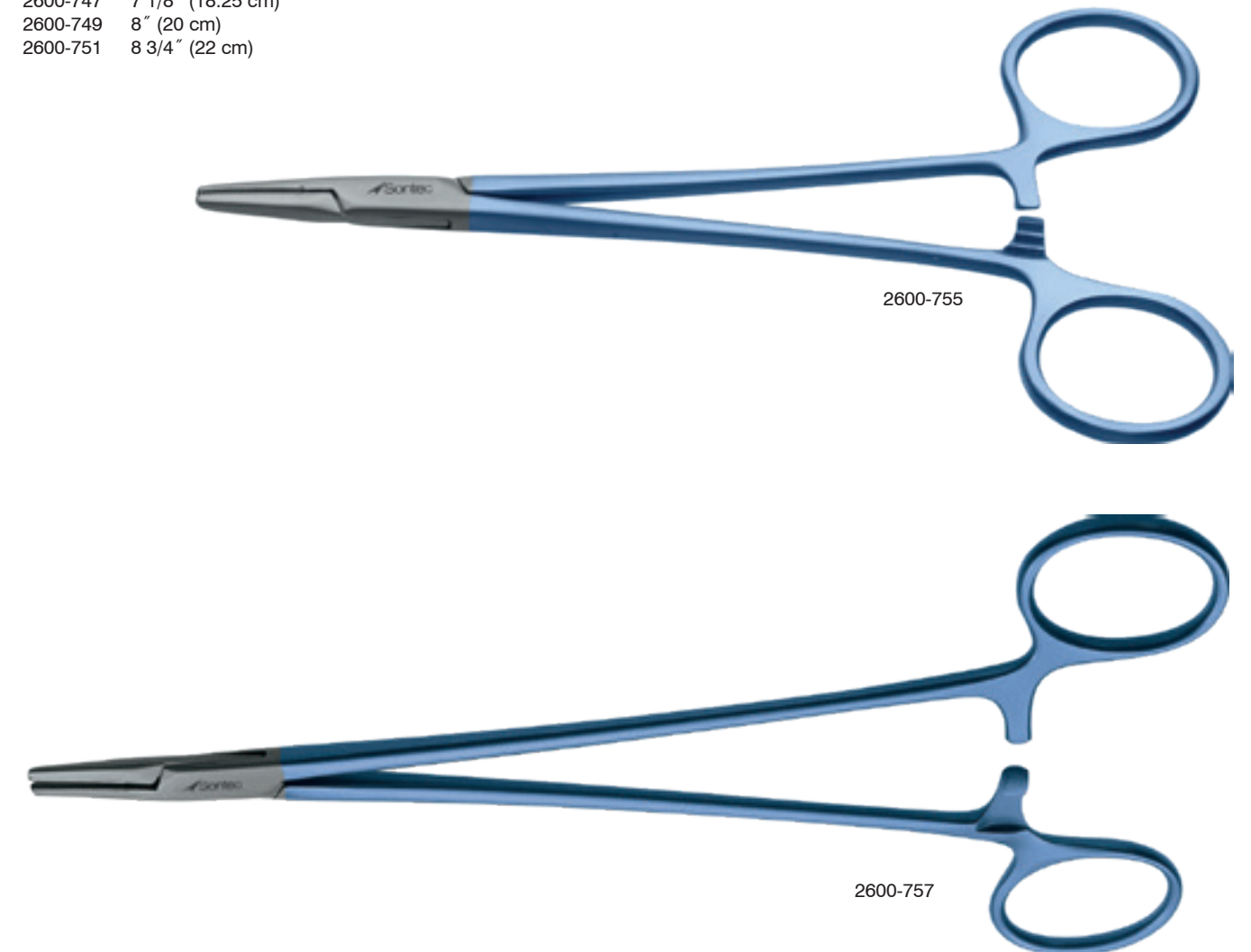
Mayo-Hegar Needle Holder Titanium

Standard box lock / TC serrated

2600-755	6 1/4" (16 cm)
2600-757	7 1/8" (18.25 cm)
2600-759	8" (20 cm)
2600-761	8 3/4" (22 cm)

Standard box lock / TC dust

2600-745	6 1/4" (16 cm)
2600-747	7 1/8" (18.25 cm)
2600-749	8" (20 cm)
2600-751	8 3/4" (22 cm)



Crile-Wood Needle Holder

Serrated without TC

130-521	6" (15 cm)
130-523	7" (18 cm)
130-525	8" (20 cm)
130-526	9" (23 cm)

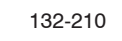


130-521



TC Serrated

132-388	str	6" (15 cm)
132-210	str	7" (18 cm)
132-223	cvd	7" (18 cm)
132-212	str	8" (20 cm)
132-225	cvd	8" (20 cm)
132-214	str	9" (23 cm)
132-224	cvd	9" (23 cm)
132-216	str	10" (25 cm)
132-218	str	12" (30 cm)



132-210



132-214



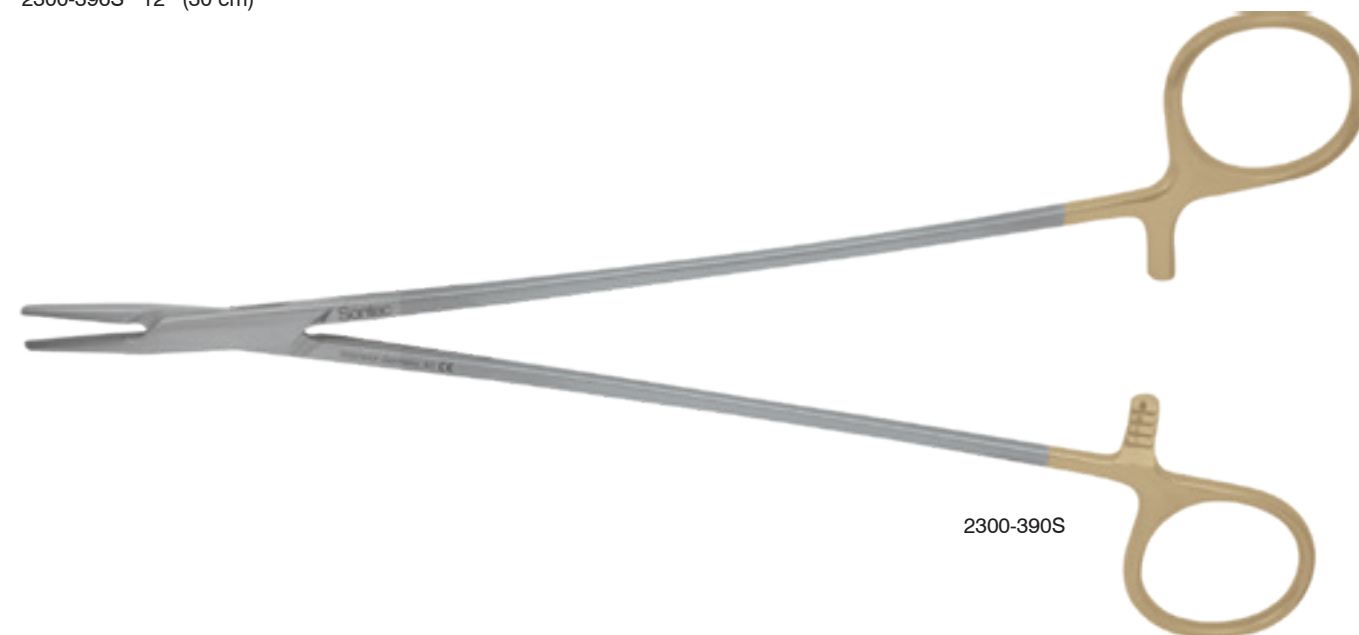
132-218



132-388

Streamlined box lock / TC serrated

2300-378	6" (15 cm)
2300-384S	7" (18 cm)
2300-388S	8" (20 cm)
2300-390S	9" (23 cm)
2300-394S	10" (25 cm)
2300-396S	12" (30 cm)



2300-390S

DeBakey Offset Ring Needle Holder

TC serrated / offset rings / suggested suture size 4-0 and smaller

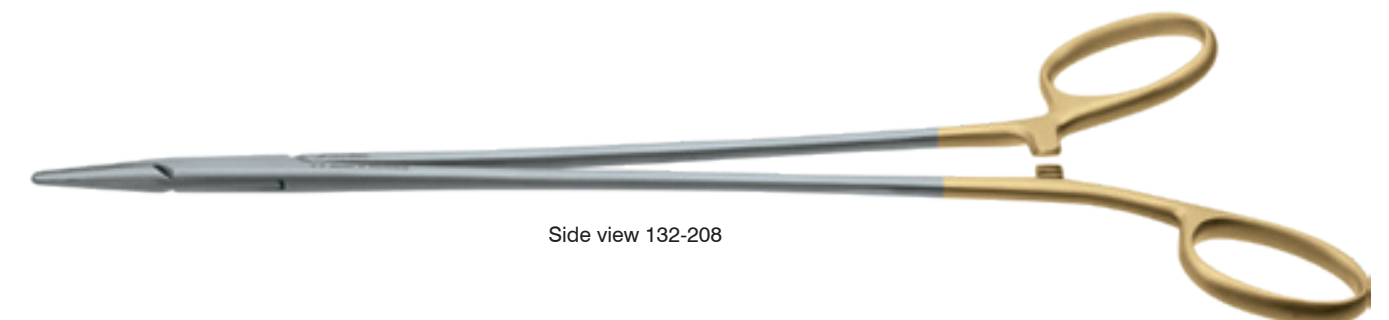
132-207	5 1/4" (13 cm)
132-208	8 3/4" (22 cm)
132-208A	9 3/4" (25 cm)



TC Serrated



132-208



Side view 132-208



132-207

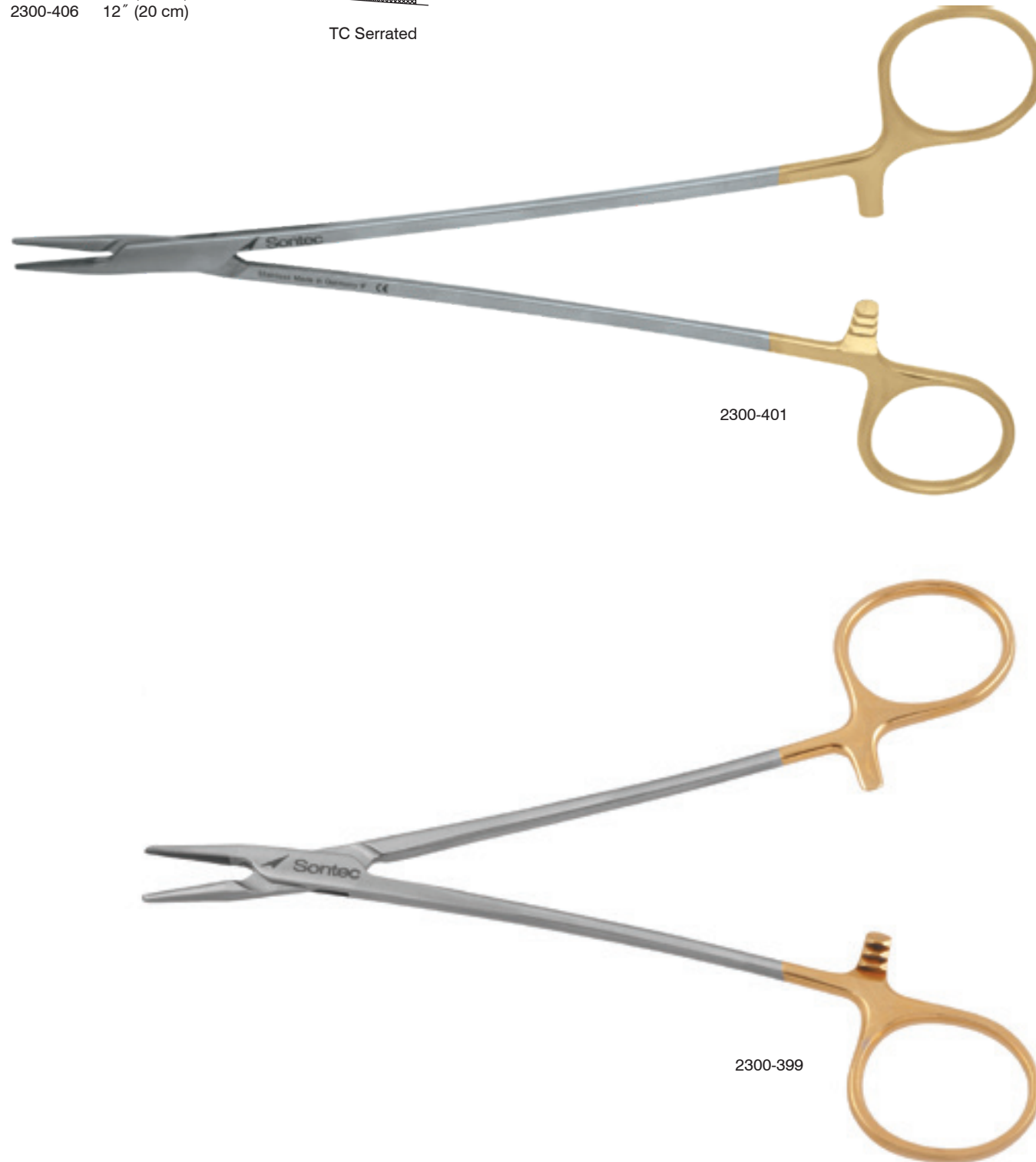
DeBakey Streamlined Needle Holder

TC serrated / streamlined / delicate / suggested suture size 3-0 and smaller

2300-399	6" (15 cm)
2300-400	7" (18 cm)
2300-401	8" (20 cm)
2300-402	9" (23 cm)
2300-404	10" (25 cm)
2300-406	12" (20 cm)



TC Serrated



2300-401

2300-399

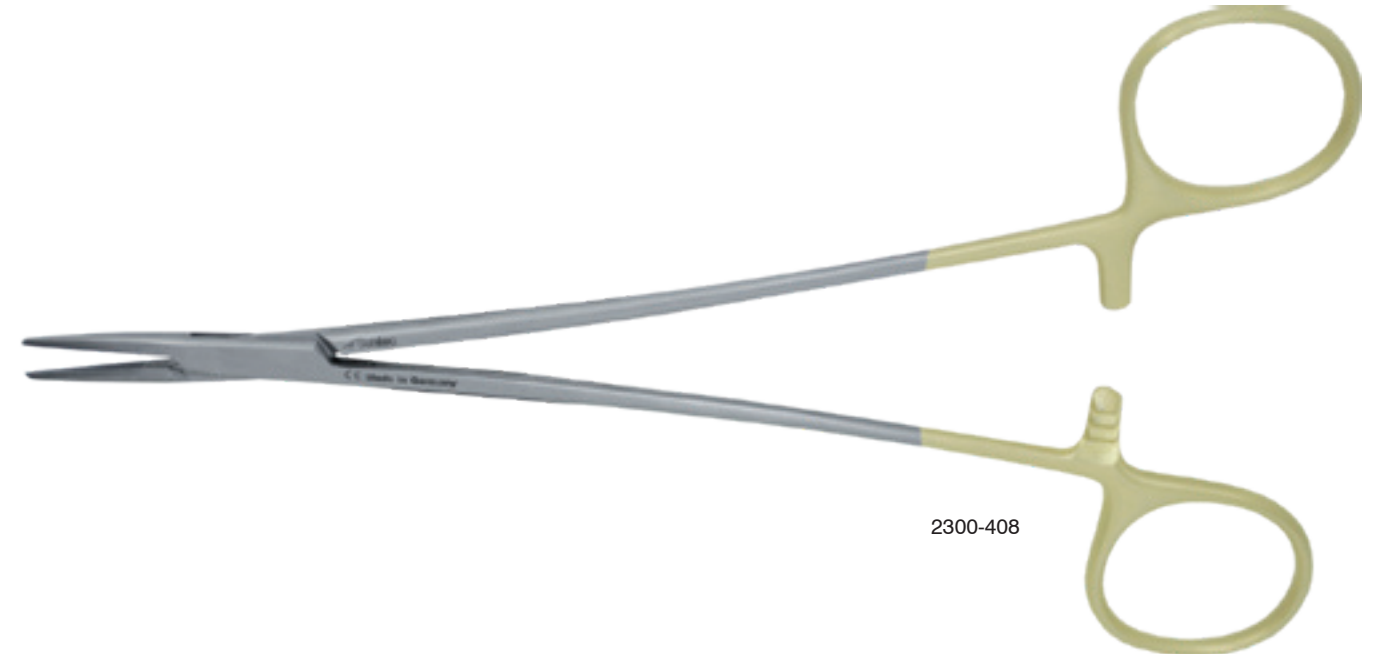
DeBakey Lightweight Needle Holder

TC serrated / lightweight / suggested suture size 4-0 and smaller

2300-408	7 1/4" (18 cm)
2300-410	8" (20 cm)
2300-412	9" (23 cm)



TC Serrated



2300-408

DeBakey Needle Holder Titanium

Standard box lock / TC serrated / medium

2600-693	6 1/4" (16 cm)
2600-695	7 1/8" (18.25 cm)
2600-697	8" (20 cm)
2600-699	8 5/8" (21.75 cm)
2600-701	10" (25 cm)



Standard box lock / TC dust

2600-685	7 1/8" (18.25 cm)
2600-687	8" (20 cm)
2600-689	8 5/8" (21.75 cm)
2600-691	10" (25 cm)



2600-697

Microvascular Needle Holder Titanium

Streamlined box lock / TC dust / suggested suture size 7-0 and smaller

2600-762	str	5" (12.5 cm)
2600-762C	cvd	5" (12.5 cm)
2600-7621	str	5 1/2" (14 cm)
2600-763	str	5 3/4" (14.5 cm)
2600-763C	cvd	5 3/4" (14.5 cm)
2600-765	str	7 1/4" (18.5 cm)
2600-765C	cvd	7 1/4" (18.5 cm)
2600-766	str	8" (20 cm)
2600-766C	cvd	8" (20 cm)
2600-767	str	8 3/4" (22 cm)
2600-767C	cvd	8 3/4" (22 cm)

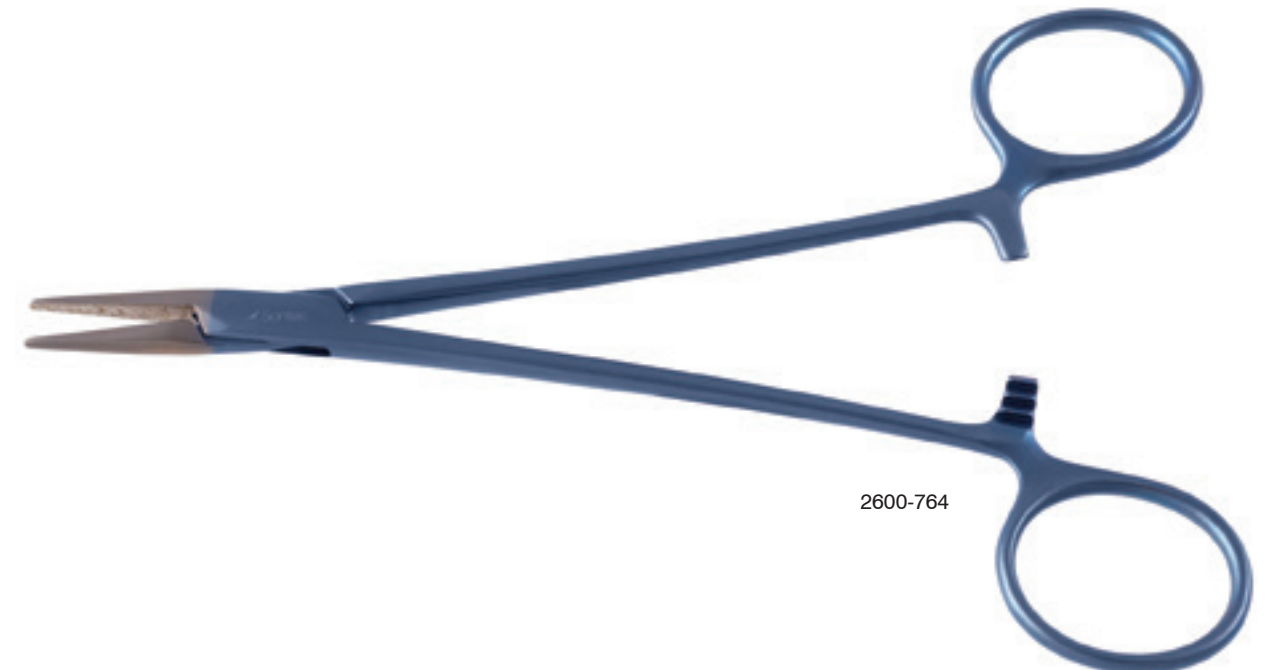


Standard box lock / TC dust / suggested suture size 7-0 and smaller

2600-764	str	6 1/2" (16.5 cm)
2600-764C	cvd	6 1/2" (16.5 cm)



2600-7621



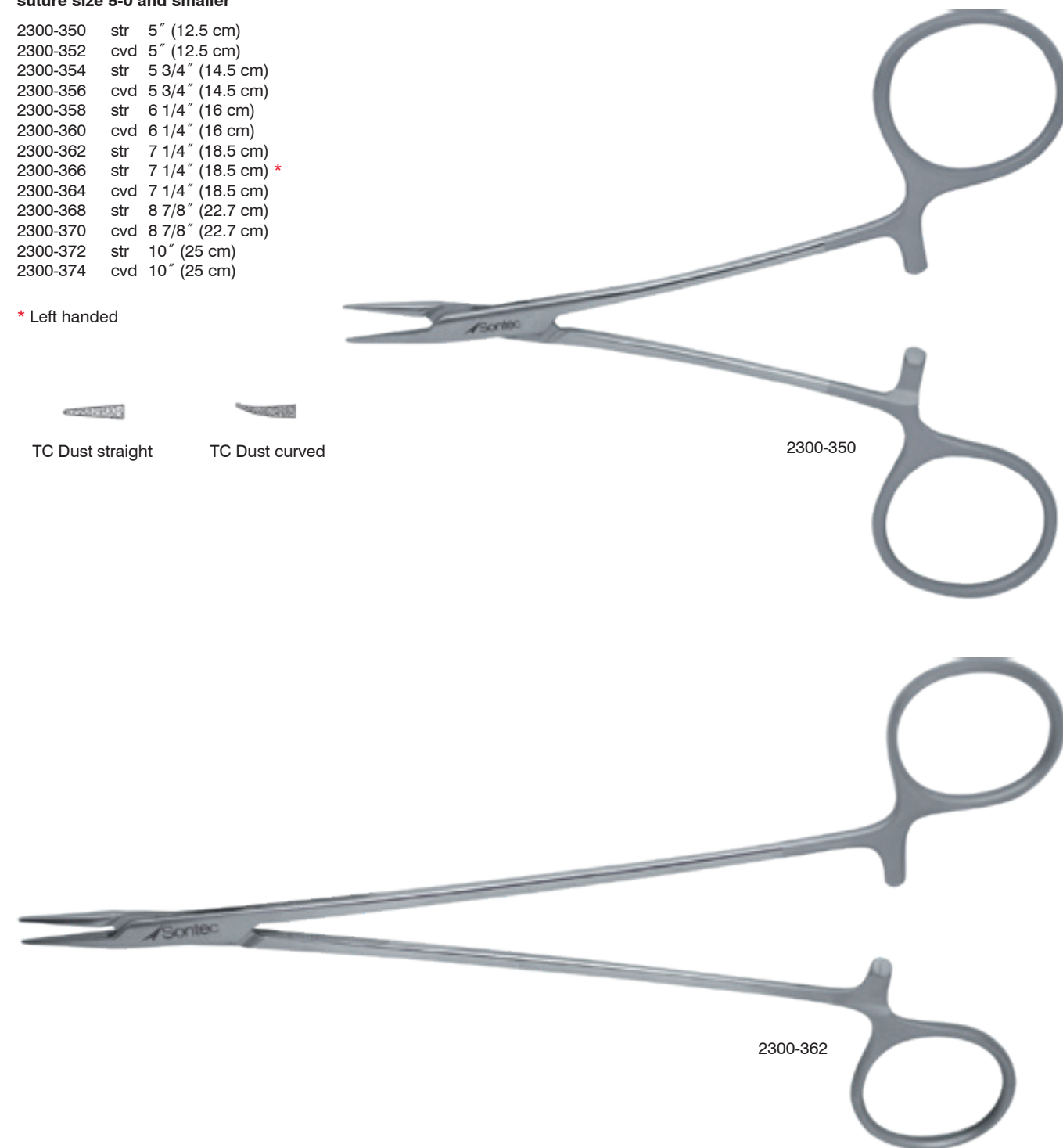
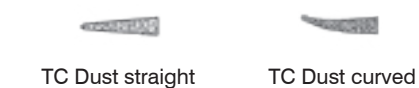
2600-764

Microvascular Needle Holder

TC dust / streamlined box lock / suggested suture size 5-0 and smaller

2300-350	str	5" (12.5 cm)
2300-352	cvd	5" (12.5 cm)
2300-354	str	5 3/4" (14.5 cm)
2300-356	cvd	5 3/4" (14.5 cm)
2300-358	str	6 1/4" (16 cm)
2300-360	cvd	6 1/4" (16 cm)
2300-362	str	7 1/4" (18.5 cm)
2300-366	str	7 1/4" (18.5 cm) *
2300-364	cvd	7 1/4" (18.5 cm)
2300-368	str	8 7/8" (22.7 cm)
2300-370	cvd	8 7/8" (22.7 cm)
2300-372	str	10" (25 cm)
2300-374	cvd	10" (25 cm)

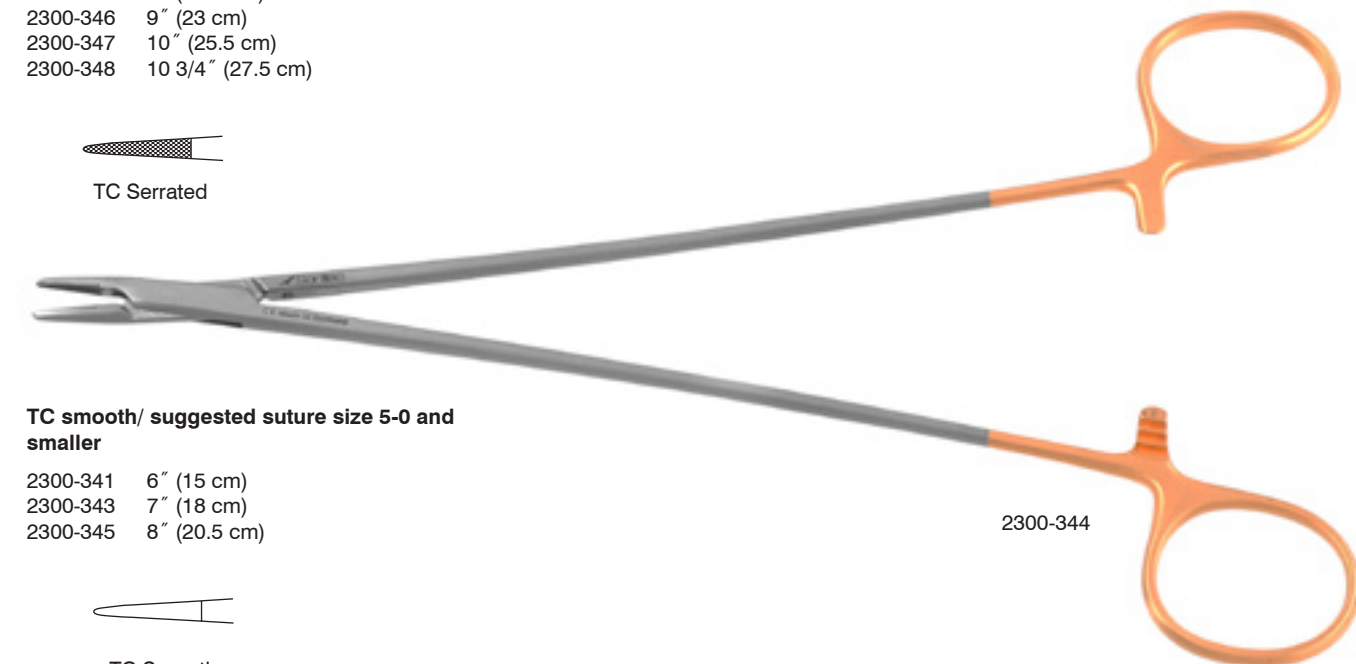
* Left handed



Microvascular Needle Holder

TC serrated/ suggested suture size 5-0 and smaller

2300-340	6" (15 cm)
2300-342	7" (18 cm)
2300-344	8" (20.5 cm)
2300-346	9" (23 cm)
2300-347	10" (25.5 cm)
2300-348	10 3/4" (27.5 cm)



TC smooth/ suggested suture size 5-0 and smaller

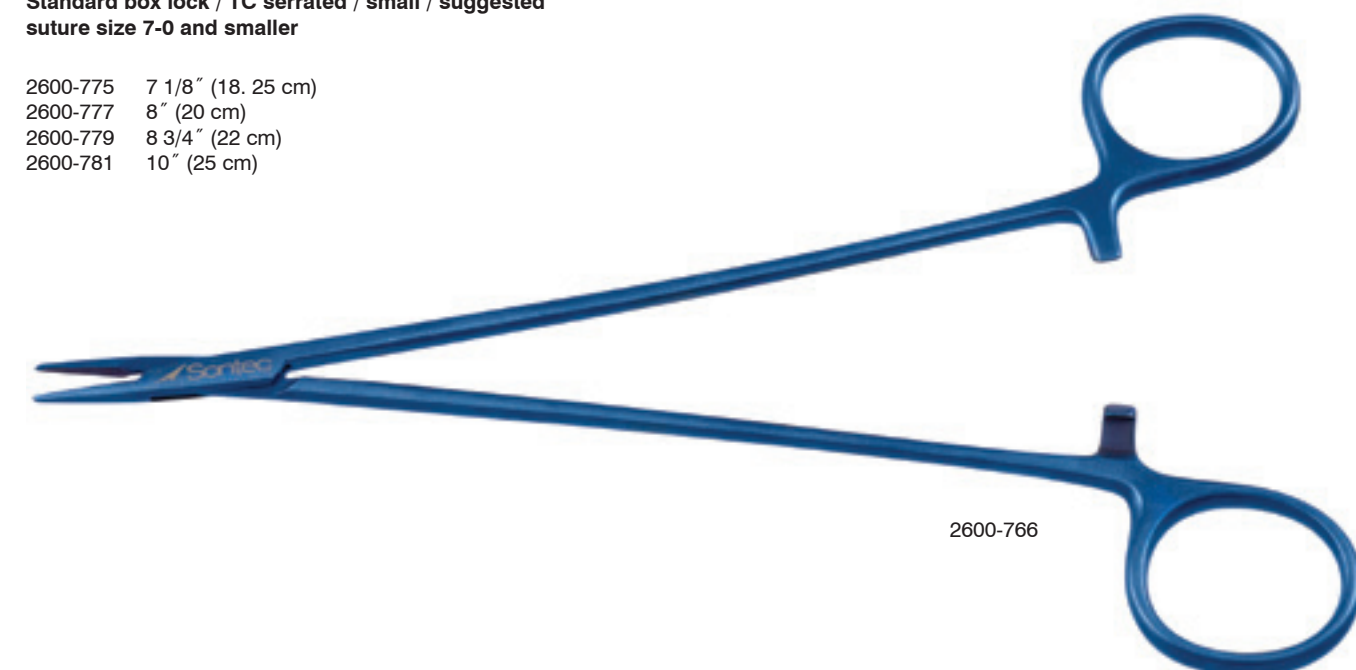
2300-341	6" (15 cm)
2300-343	7" (18 cm)
2300-345	8" (20.5 cm)



Microvascular Needle Holder Titanium

Standard box lock / TC serrated / small / suggested suture size 7-0 and smaller

2600-775	7 1/8" (18.25 cm)
2600-777	8" (20 cm)
2600-779	8 3/4" (22 cm)
2600-781	10" (25 cm)



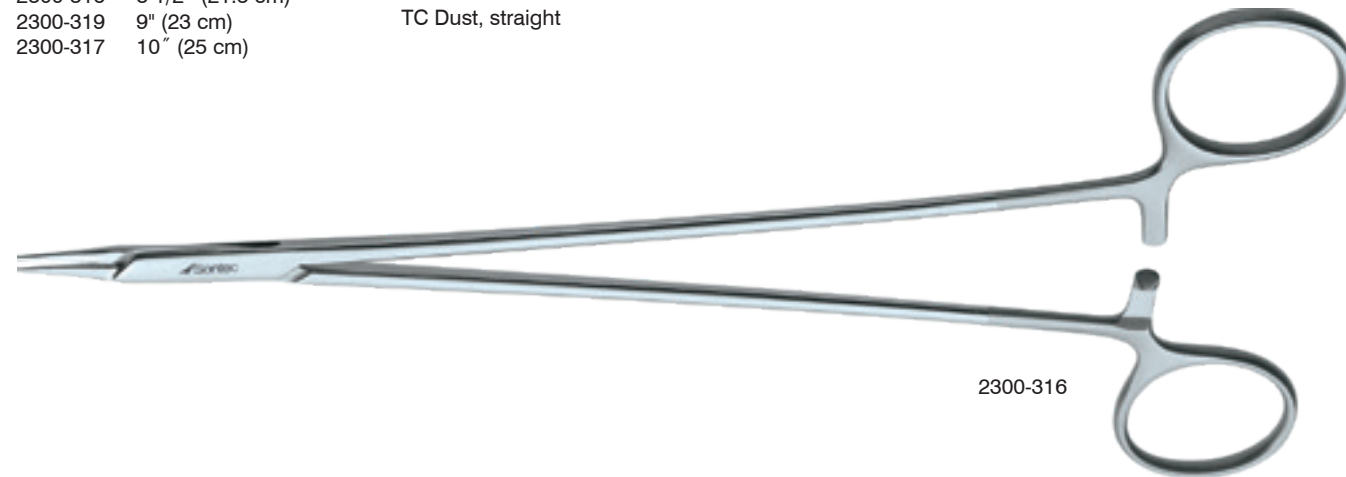
Microvascular Ryder Needle Holder

TC dust / streamlined box lock / suggested suture size 7-0 and smaller

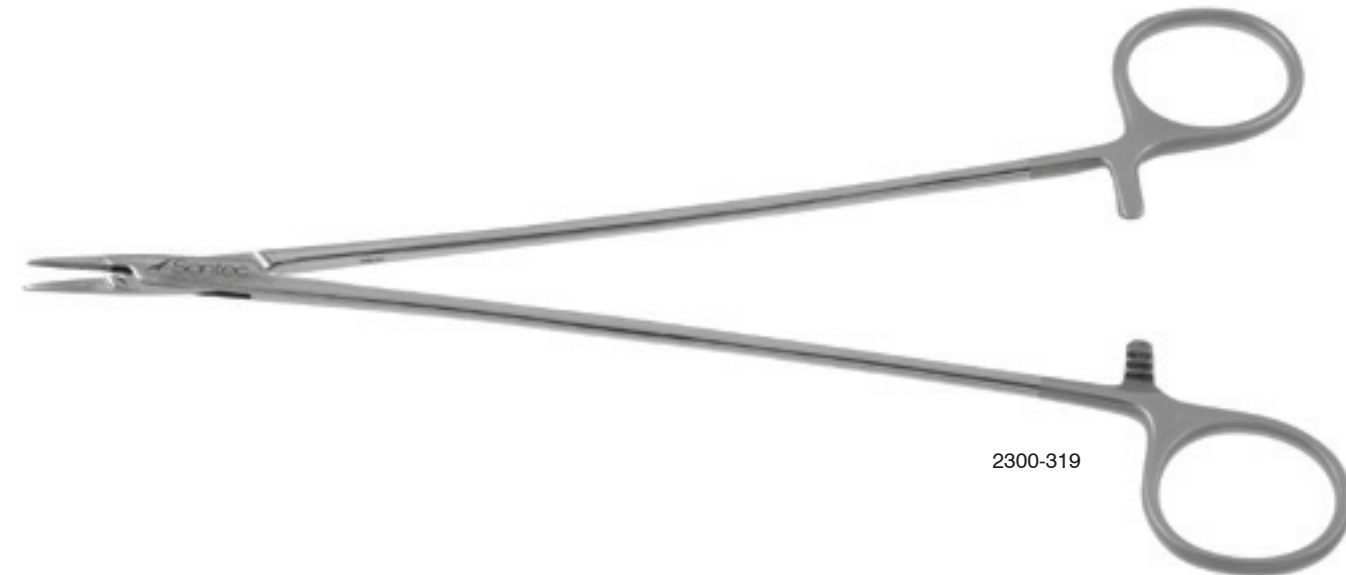
2300-321	6 1/4" (16 cm)
2300-322	7 1/4" (18.5 cm)
2300-323	8" (20.3 cm)
2300-316	8 1/2" (21.5 cm)
2300-319	9" (23 cm)
2300-317	10" (25 cm)



TC Dust, straight



2300-316



2300-319

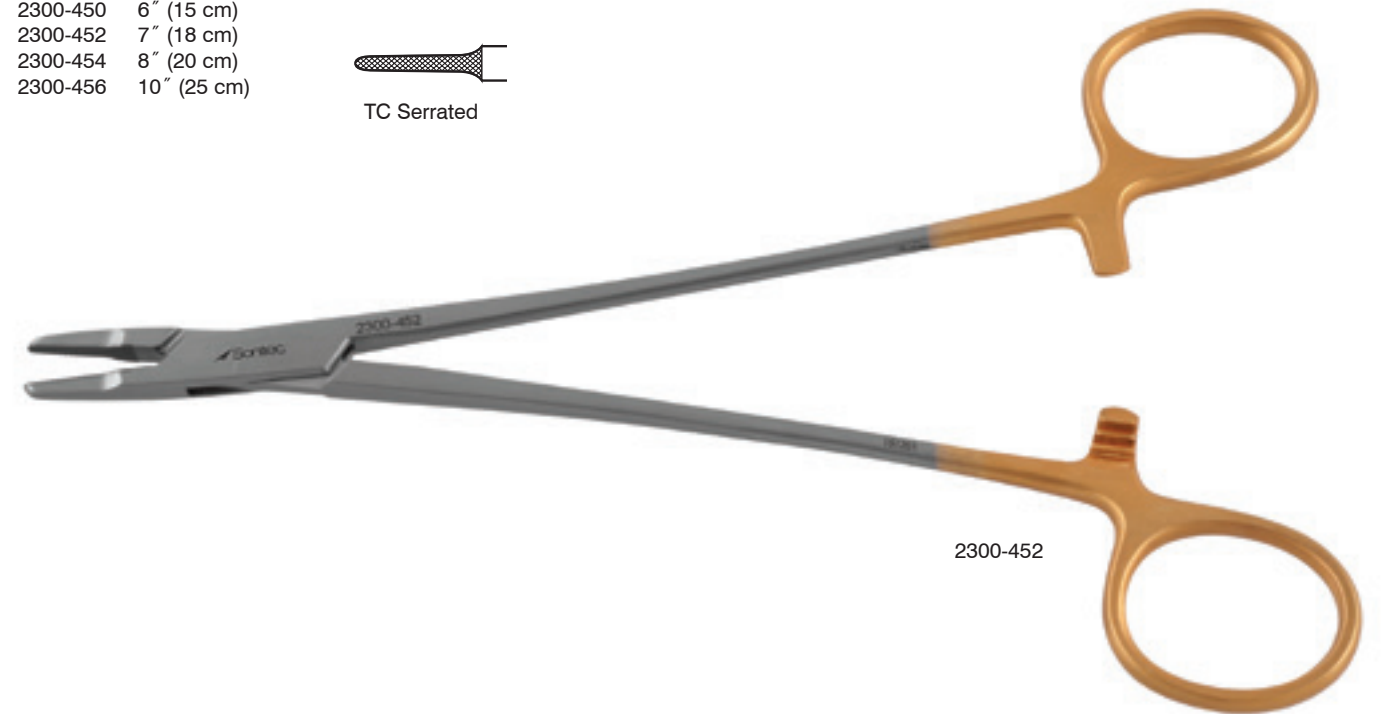
French Eye Needle Holder

TC serrated / suggested suture size 7-0 and smaller

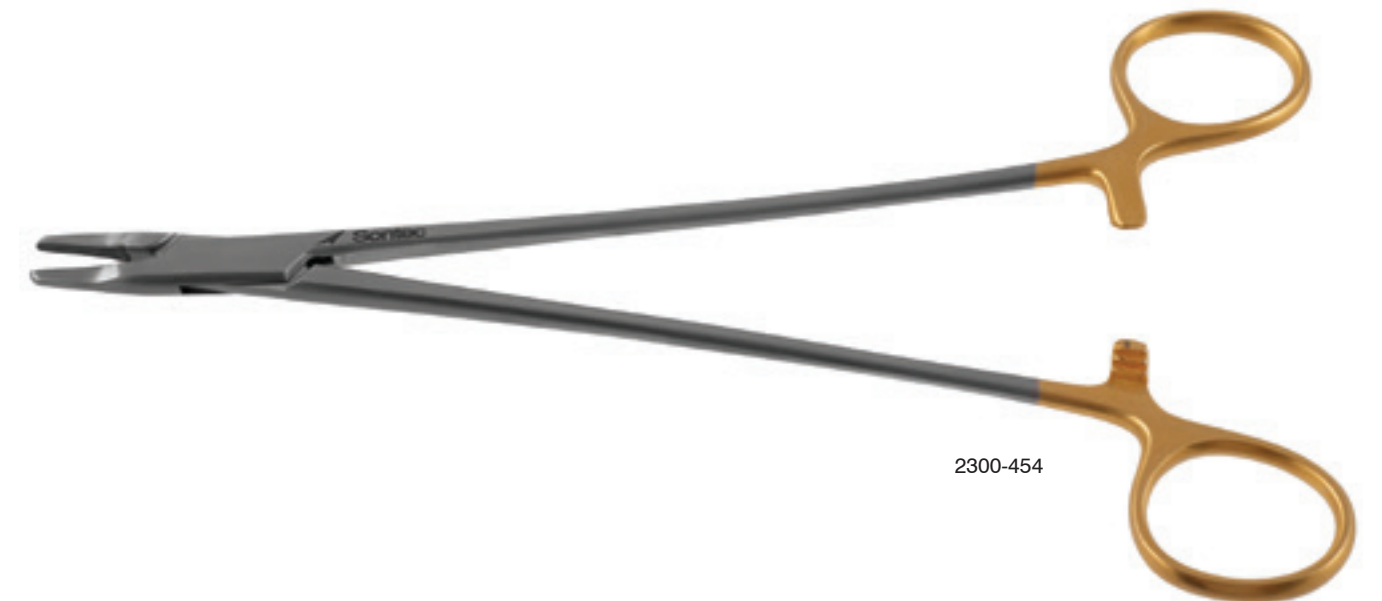
2300-450	6" (15 cm)
2300-452	7" (18 cm)
2300-454	8" (20 cm)
2300-456	10" (25 cm)



TC Serrated



2300-452



2300-454

Ryder Needle Holder Titanium

Standard box lock / TC dust / suggested suture size 5-0 and smaller

2600-791	6" (15 cm)
2600-792	6 3/4" (17 cm)
2600-793	7 1/2" (19 cm)



Microvascular / standard box lock / TC Dust

2600-790	6" (15 cm)
----------	------------

TC serrated

2600-794	6" (15 cm)
2600-795	6 3/4" (17 cm)
2600-796	7 1/2" (19 cm)

TC Dust / straight / 7" (18 cm)

2600-797

2600-791

2600-792

2600-793

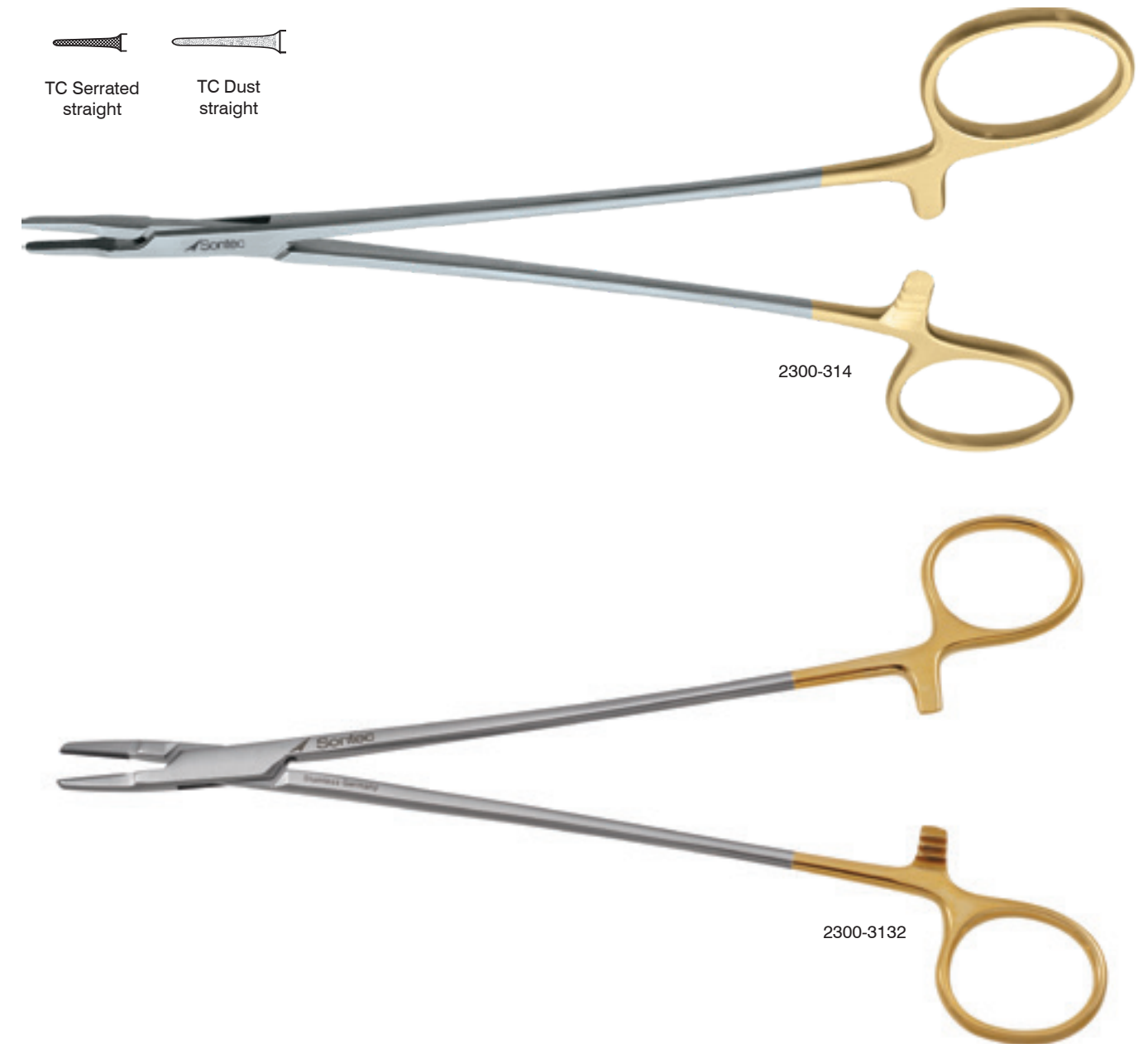
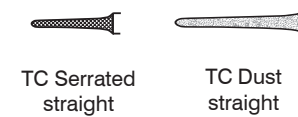
Ryder Standard Size Needle Holder

1.5 mm jaw / streamlined box lock / TC / serrated

2300-307	5" (13 cm)
2300-309	6" (15 cm)
2300-310L	6" (15 cm) left
2300-310	6 1/2" (15.5 cm)
2300-311	7" (18 cm)
2300-313	8" (20 cm)
2300-315	9" (23 cm)

2 mm jaw / streamlined box lock / TC

2300-3132	8" (20 cm)
-----------	------------



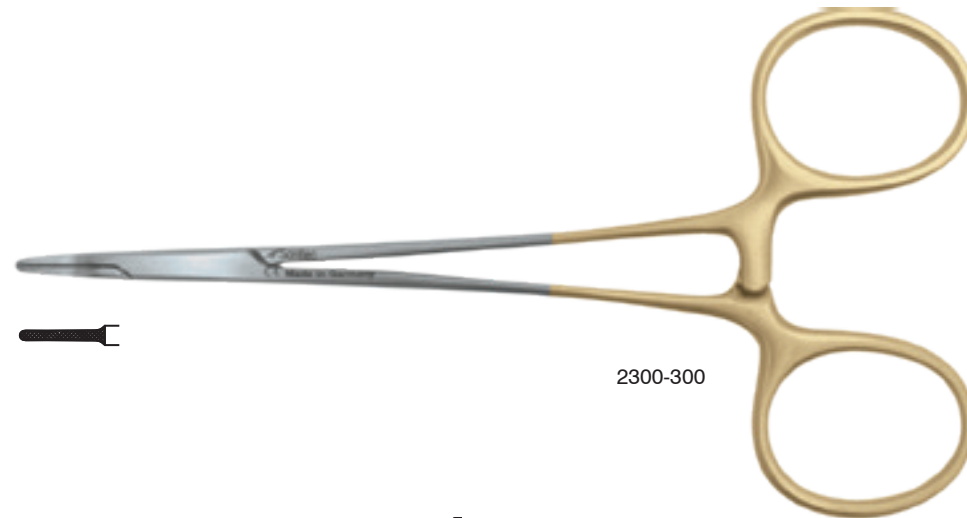
Ryder Delicate Needle Holder

1 mm jaw / TC serrated

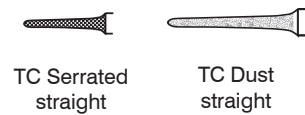
2300-298	4 3/4" (12 cm)	
2300-300	5" (12.5 cm)	
2300-301	5" (12.5 cm)	1.5 mm jaw
1100-122	5" (12.5 cm)	2 mm jaw
2300-302	6" (15 cm)	
2300-304	7" (18 cm)	
2300-306	8" (20 cm)	
2300-308	9" (23 cm)	

1 mm jaw / TC smooth

2300-298S	4 3/4" (12 cm)
2300-300S	5" (12.5 cm)
2300-302S	6" (15 cm)
2300-304S	7" (18 cm)
2300-306S	8" (20 cm)
2300-308S	9" (23 cm)

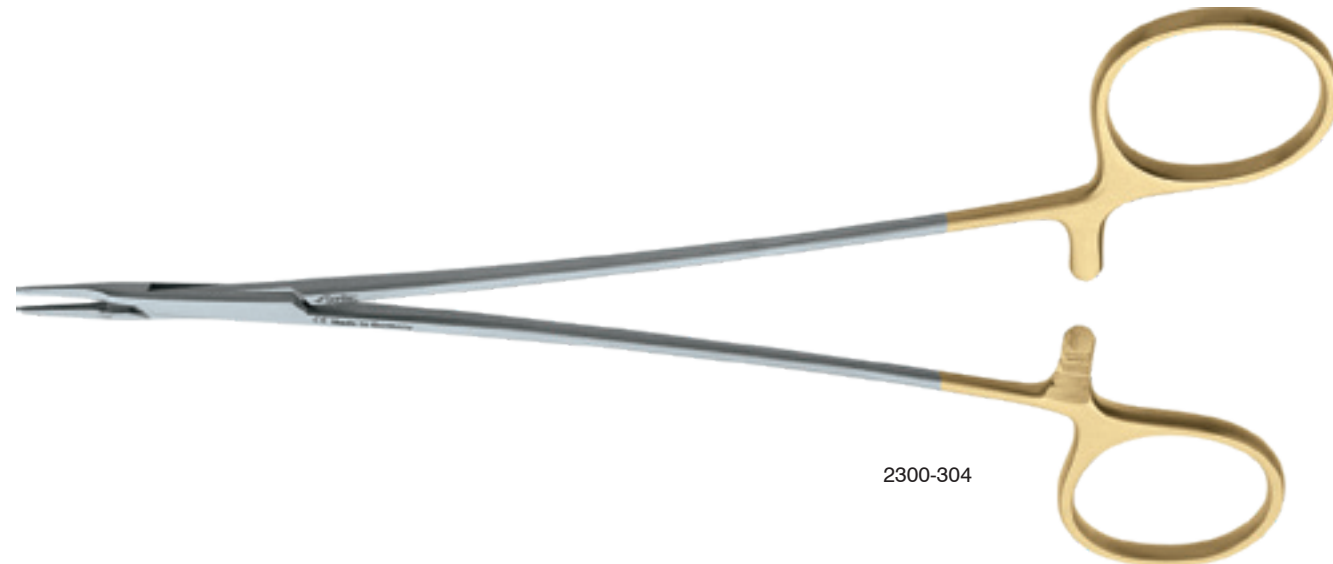


2300-300



TC Serrated
straight

TC Dust
straight



2300-304

Sontec Ryder Needle Holder

TC serrated / 5 3/4" (14.6 cm)

132-298

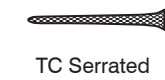


132-298

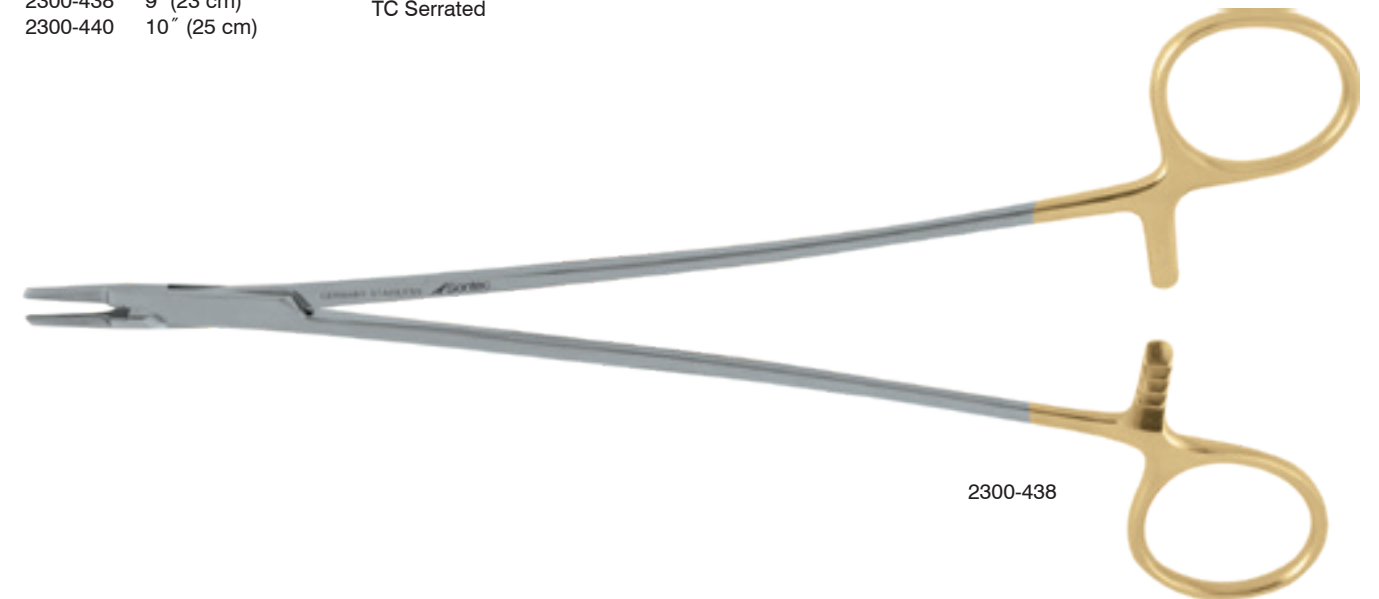
Intracardiac Needle Holder

TC serrated

2300-434	7" (18 cm)
2300-436	8" (20 cm)
2300-438	9" (23 cm)
2300-440	10" (25 cm)



TC Serrated

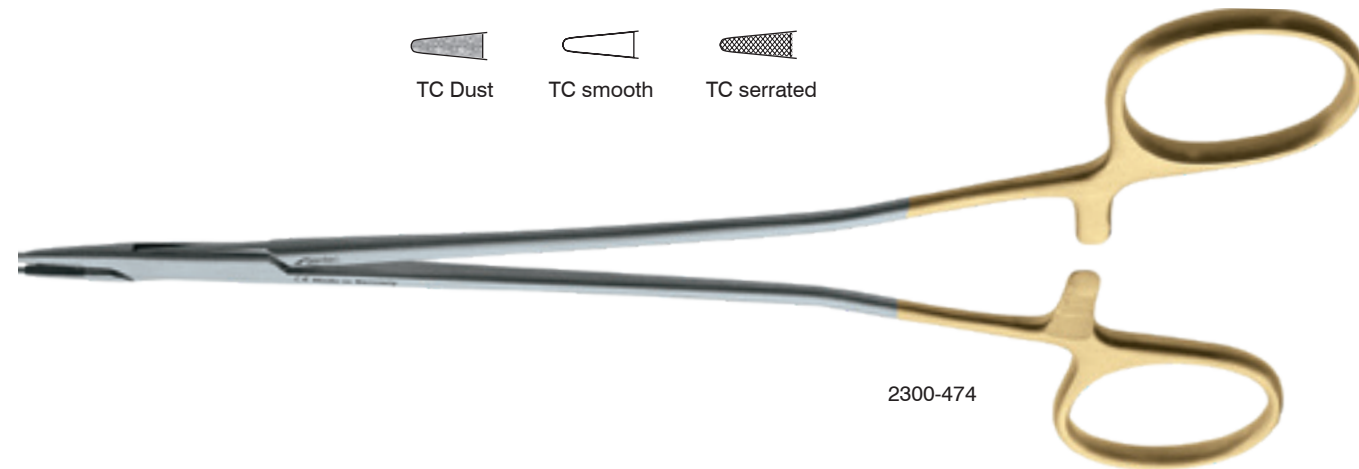
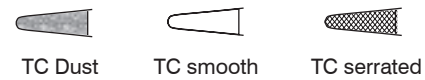


2300-438

Sarot Needle Holder

TC serrated / suggested suture size 5-0 and smaller

2300-474 7" (18 cm)
2300-476 10" (25 cm)



Ferlit Euphrate-Pasque Needle Holder

TC smooth / 6" (15 cm) / suggested suture size 7-0 and smaller

2300-660F



Euphrate-Pasque Needle Holder

TC dust / delicate / suggested suture size 5-0 and smaller

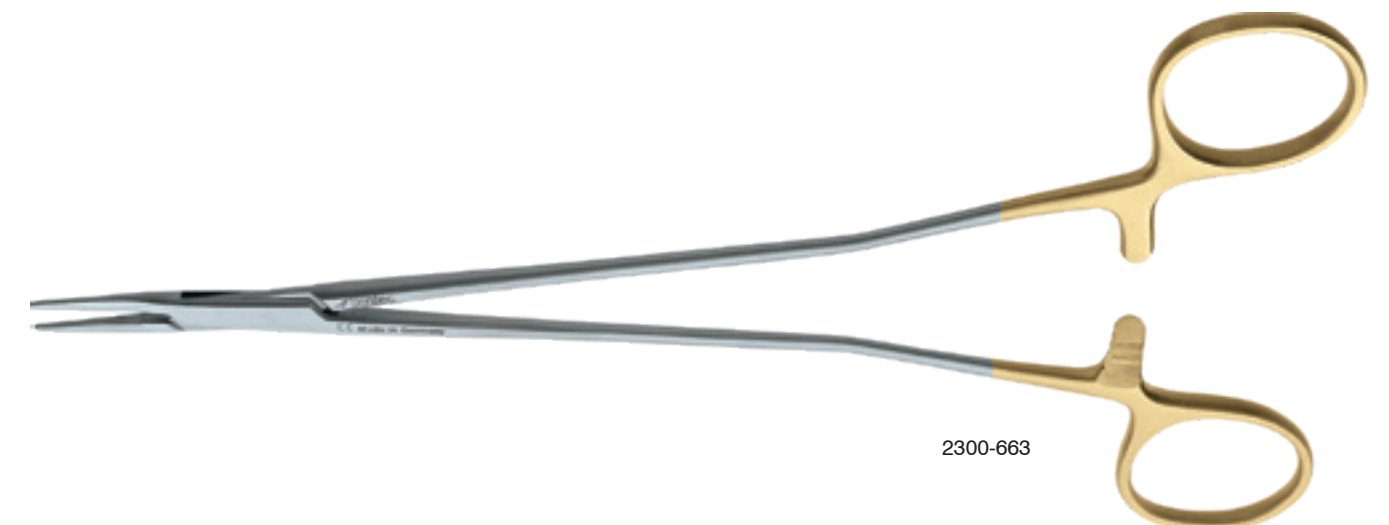
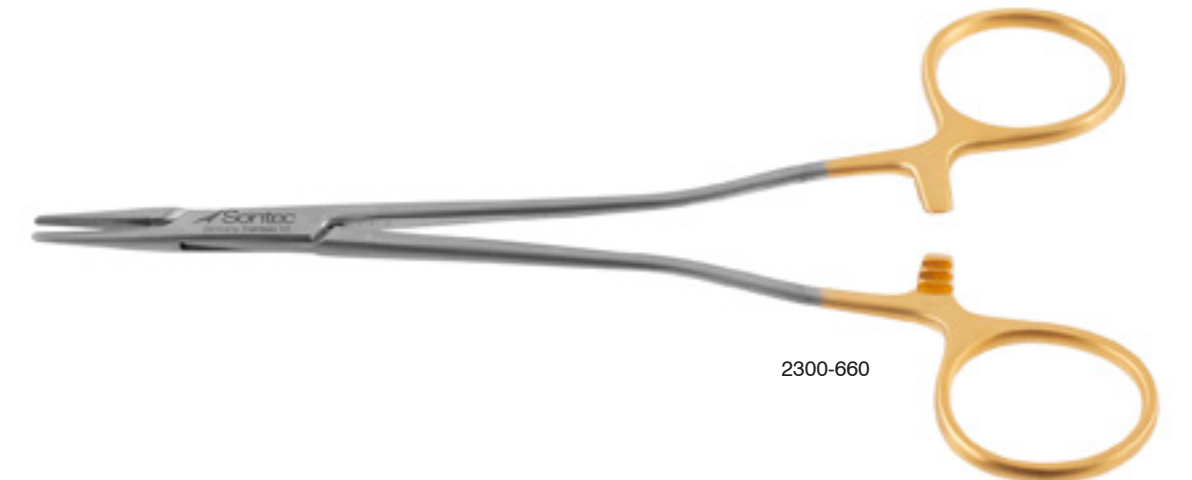
2300-650 6" (15 cm)
2300-652 7" (18 cm)
2300-654 8" (20 cm)
2300-656 9" (23 cm)

TC serrated / suggested suture size 5-0 and smaller

2300-659 6" (15 cm)
2300-662 7" (18 cm)
2300-664 8" (20 cm)
2300-666 9" (23 cm)

TC smooth / suggested suture size 5-0 and smaller

2300-660 6" (15 cm)
2300-661 7" (18 cm)
2300-663 8" (20 cm)
2300-665 9" (23 cm)



Swedish Style Needle Holder

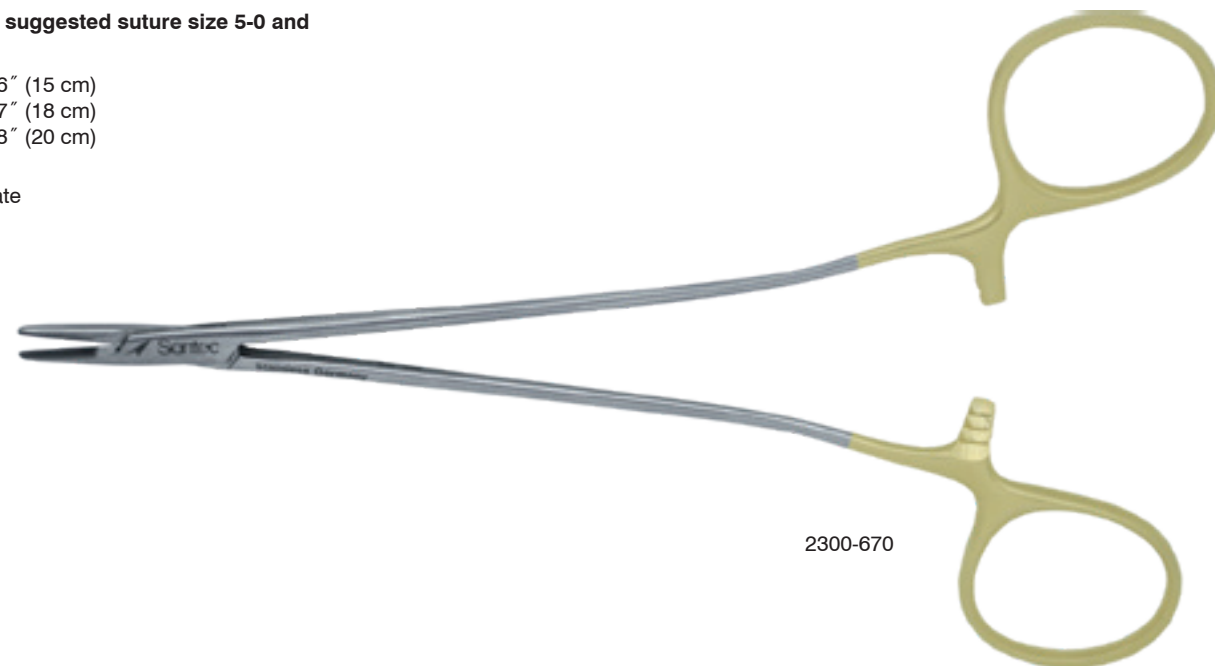
TC serrated / suggested suture size 5-0 and smaller

2300-670	6" (15 cm)
2300-679	6" (15 cm) *
2300-672	7" (18 cm)
2300-674	8" (20 cm)

TC smooth / suggested suture size 5-0 and smaller

2300-671	6" (15 cm)
2300-673	7" (18 cm)
2300-675	8" (20 cm)

* Extra delicate



2300-670



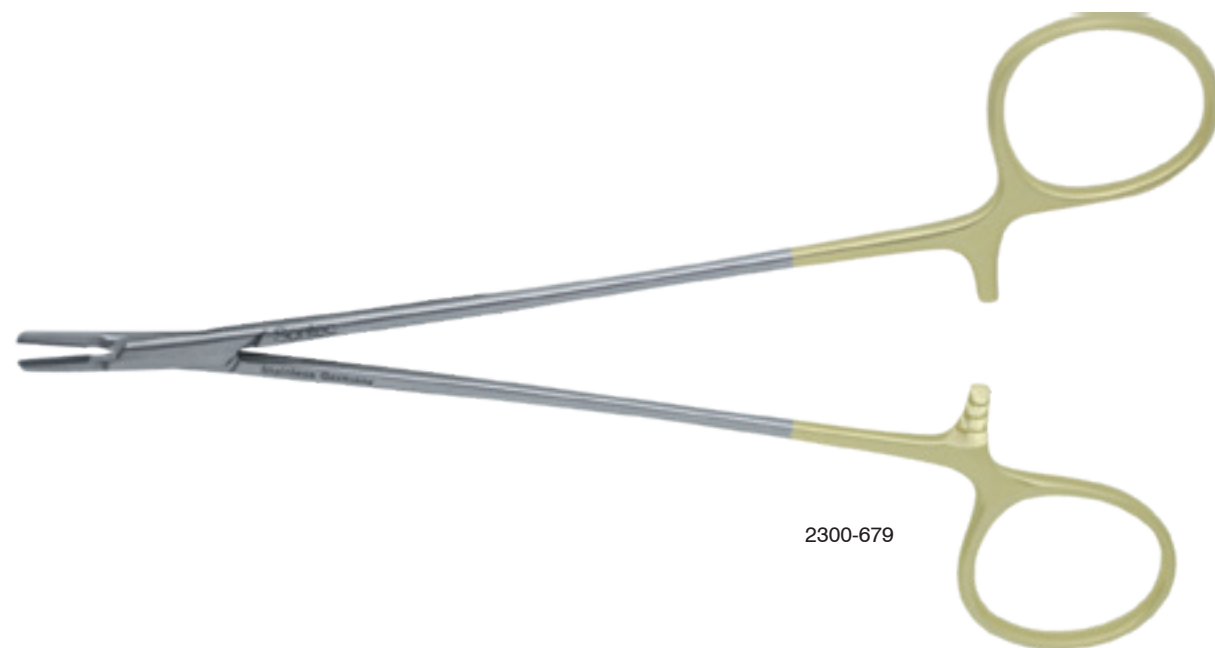
TC Serrated



TC Serrated, extra delicate



TC Smooth

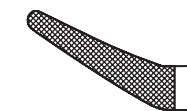


2300-679

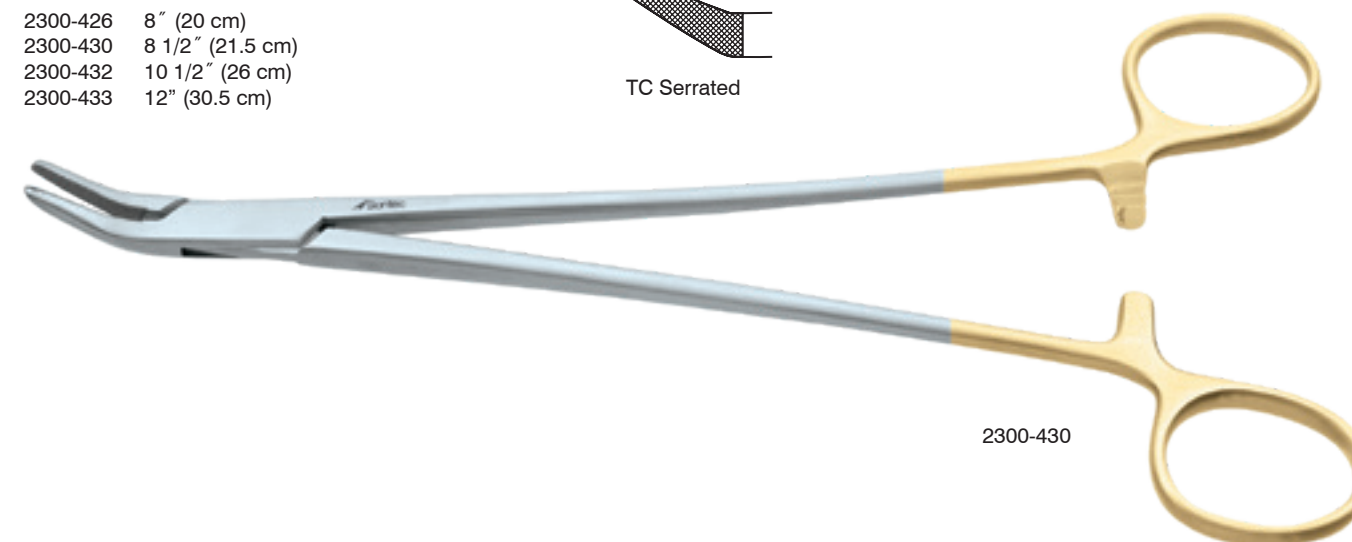
Finochietto Needle Holder

TC serrated / angled / suggested suture size 4-0 and smaller

2300-426	8" (20 cm)
2300-430	8 1/2" (21.5 cm)
2300-432	10 1/2" (26 cm)
2300-433	12" (30.5 cm)



TC Serrated

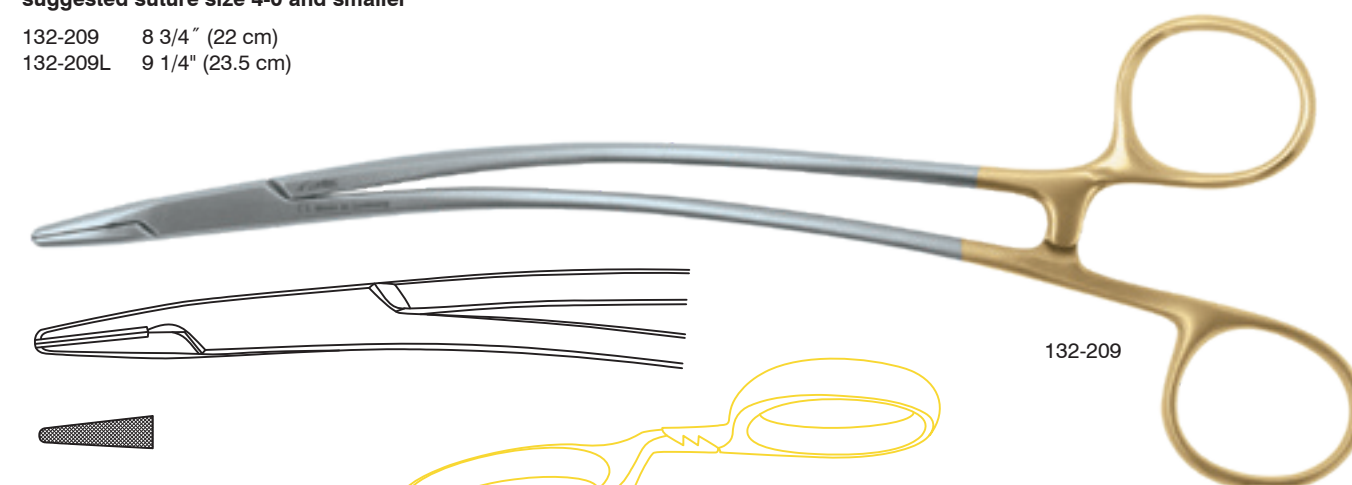


2300-430

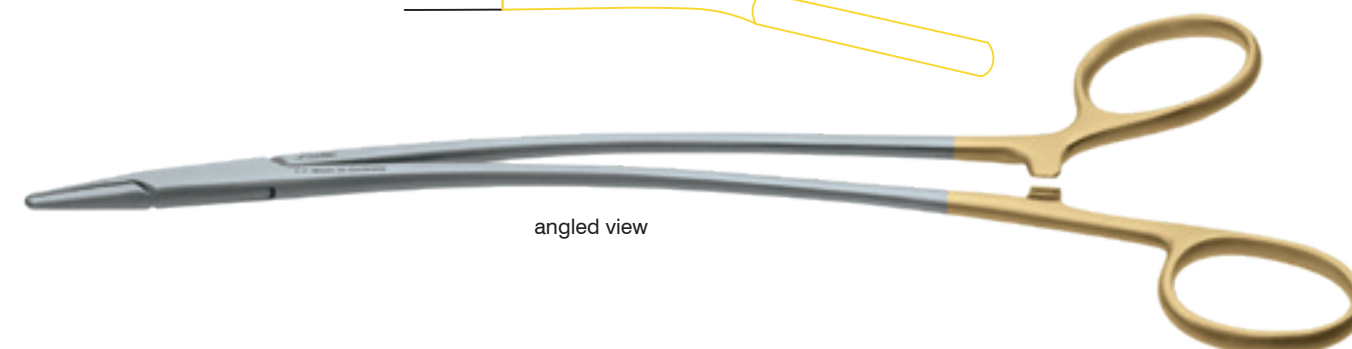
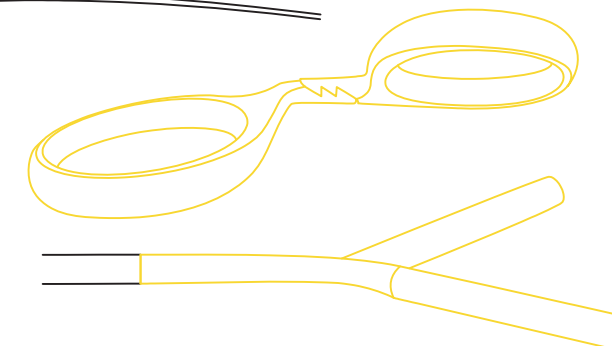
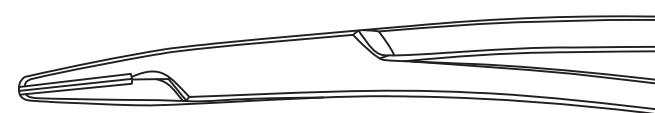
Turner-Warwick Needle Holder

TC serrated / offset rings / curved shanks / suggested suture size 4-0 and smaller

132-209	8 3/4" (22 cm)
132-209L	9 1/4" (23.5 cm)



132-209

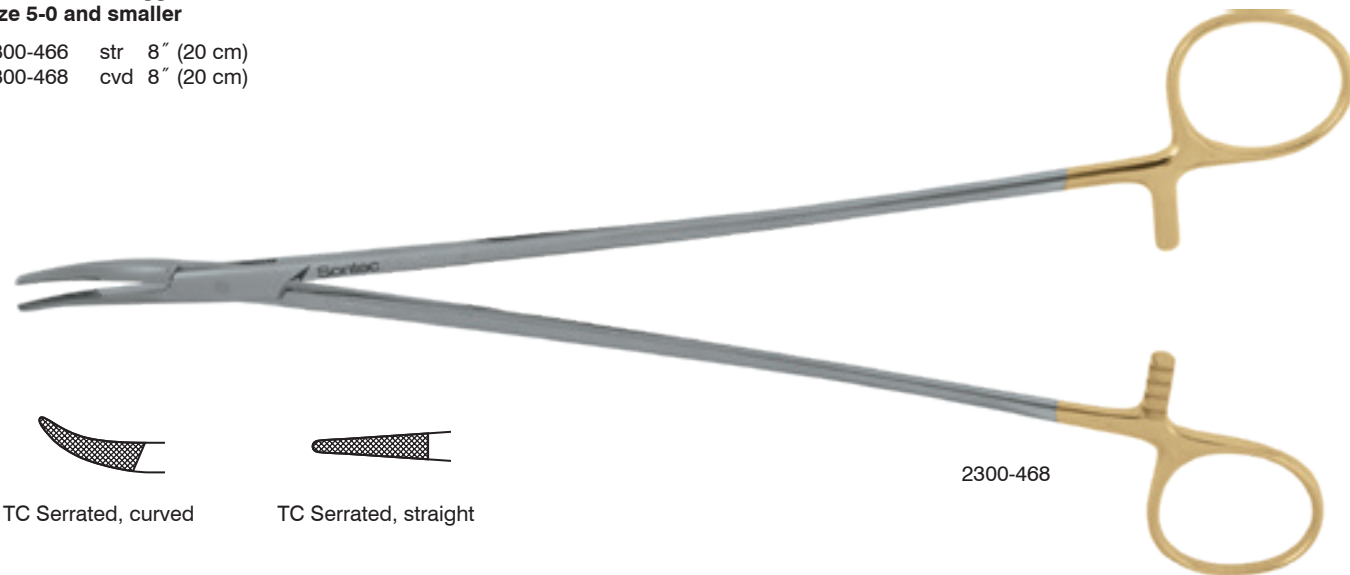


angled view

Julian Needle Holder

TC serrated / suggested suture size 5-0 and smaller

2300-466 str 8" (20 cm)
2300-468 cvd 8" (20 cm)



TC Serrated, curved



TC Serrated, straight

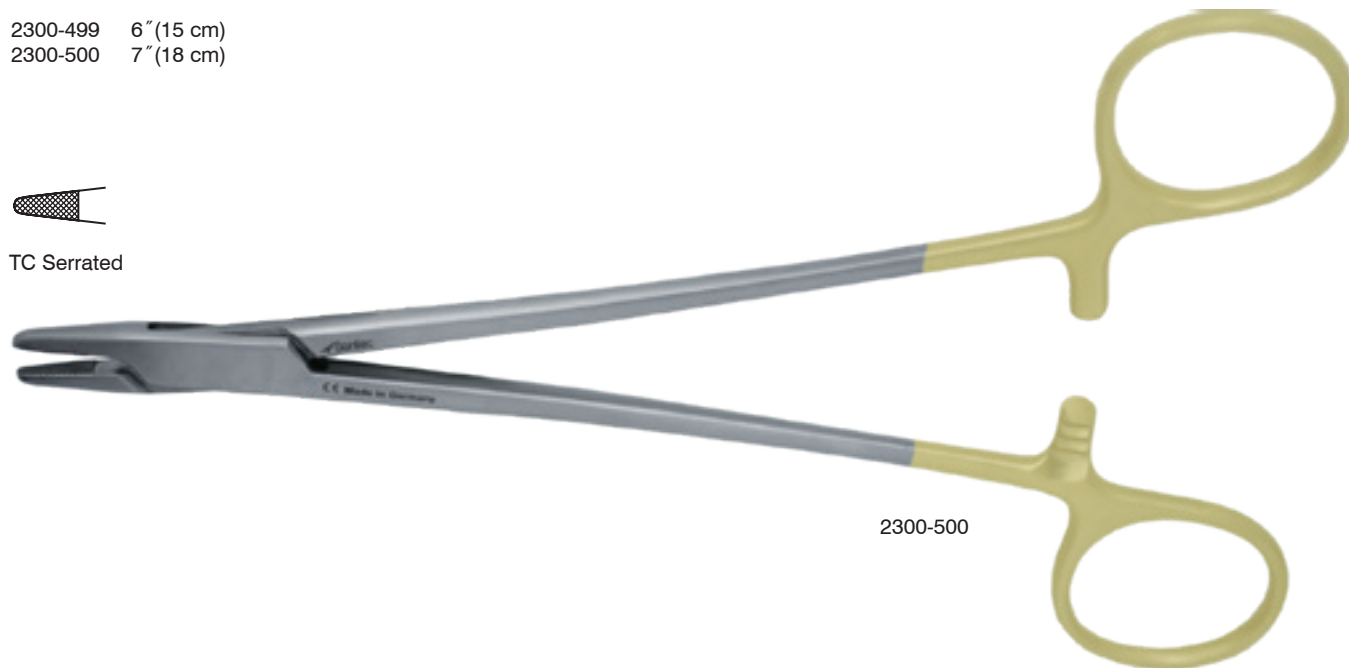
New Orleans Needle Holder

TC serrated / suggested suture size 3-0 and smaller

2300-499 6" (15 cm)
2300-500 7" (18 cm)



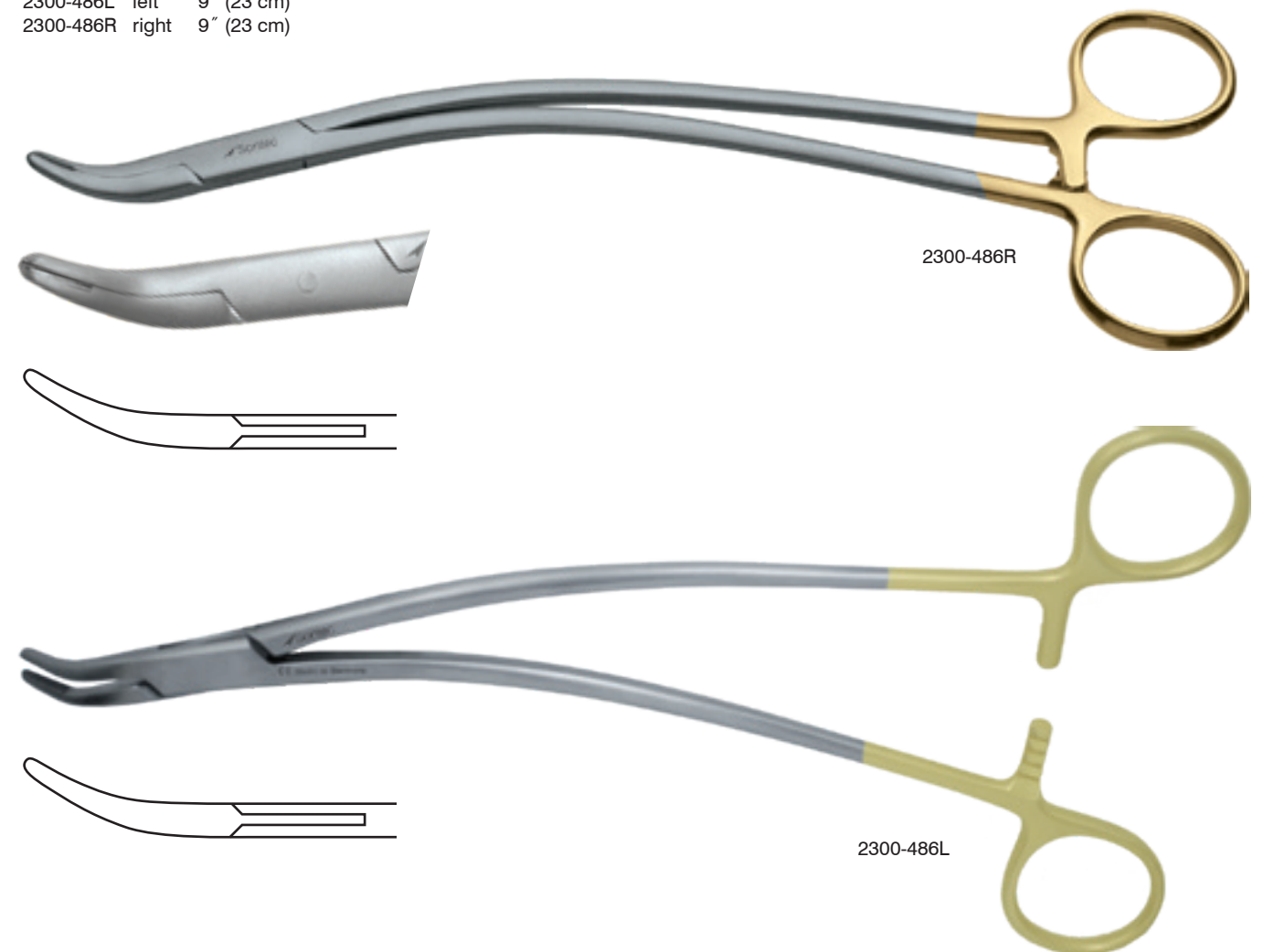
TC Serrated



Stratte Needle Holder

TC searrated / light weight / suggested suture size 4-0 and smaller

2300-486L left 9" (23 cm)
2300-486R right 9" (23 cm)



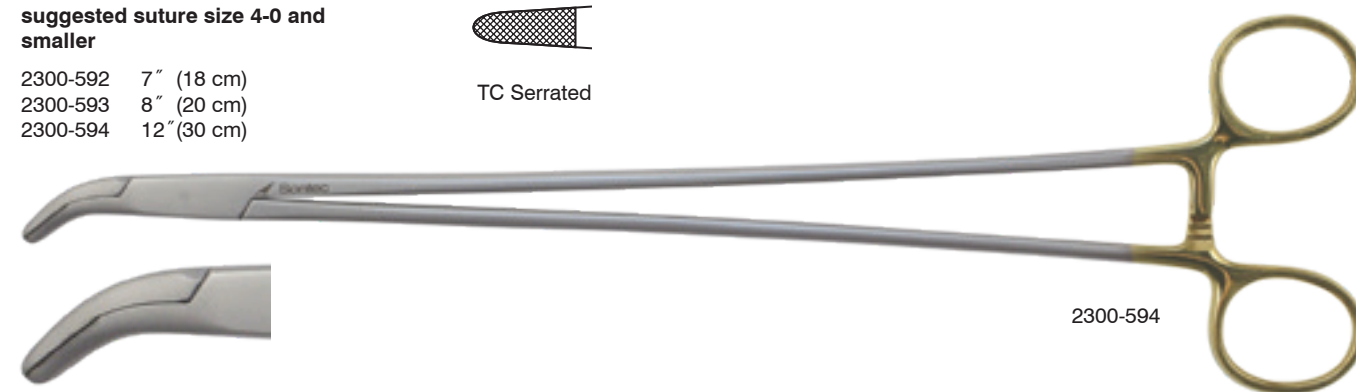
Pittman Needle Holder

TC serrated / curved to side /
suggested suture size 4-0 and
smaller

2300-592	7" (18 cm)
2300-593	8" (20 cm)
2300-594	12" (30 cm)



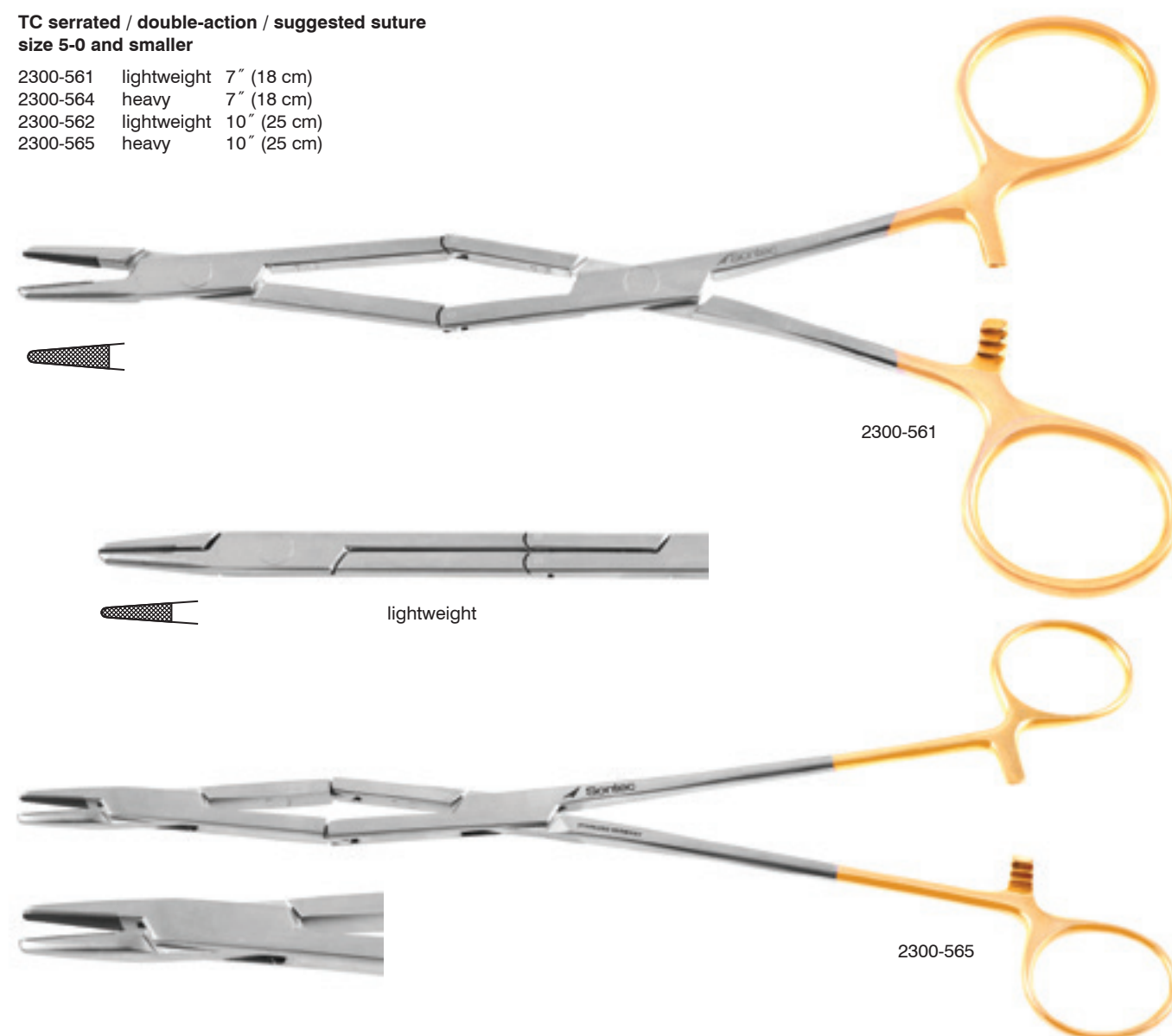
TC Serrated



Naughton-Morgan Needle Holder

TC serrated / double-action / suggested suture
size 5-0 and smaller

2300-561	lightweight	7" (18 cm)
2300-564	heavy	7" (18 cm)
2300-562	lightweight	10" (25 cm)
2300-565	heavy	10" (25 cm)



2300-561



lightweight



2300-565

Olsen-Hegar Deluxe Needle Holder

Tungsten carbide

1100-105A	5" (12.5 cm)	
1100-106D	5 3/4" (14.5 cm)	
1100-106DL	5 3/4" (14.5 cm)	left-handed



1100-124D



1100-126D



1100-128D

TC Dust jaws

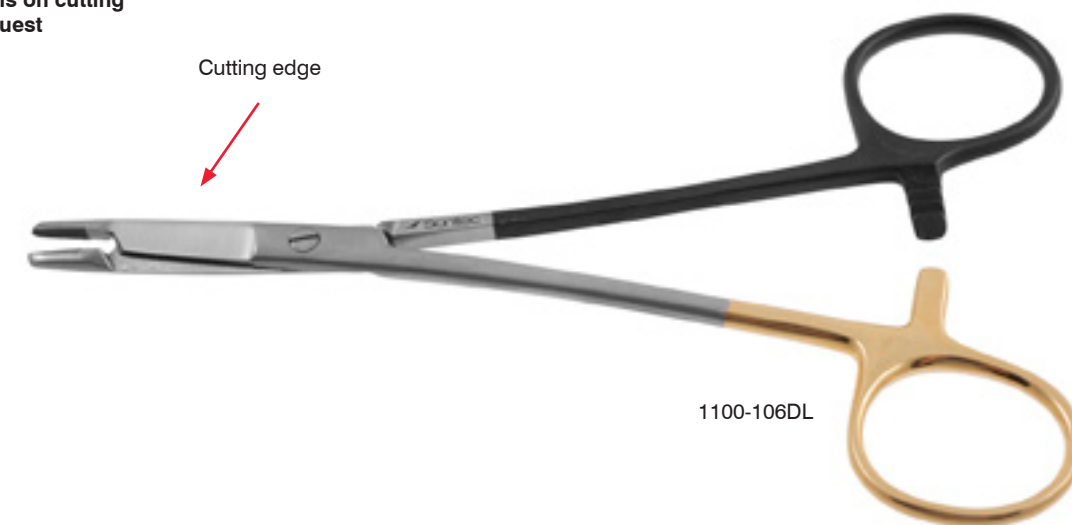
1100-105D	5 3/4" (14.5 cm)
-----------	------------------

Serrated without TC/standard

1100-124D	5 3/4" (14 .5 cm)
1100-126D	6 3/4" (17 cm)
1100-128D	7 3/4" (19.5 cm)

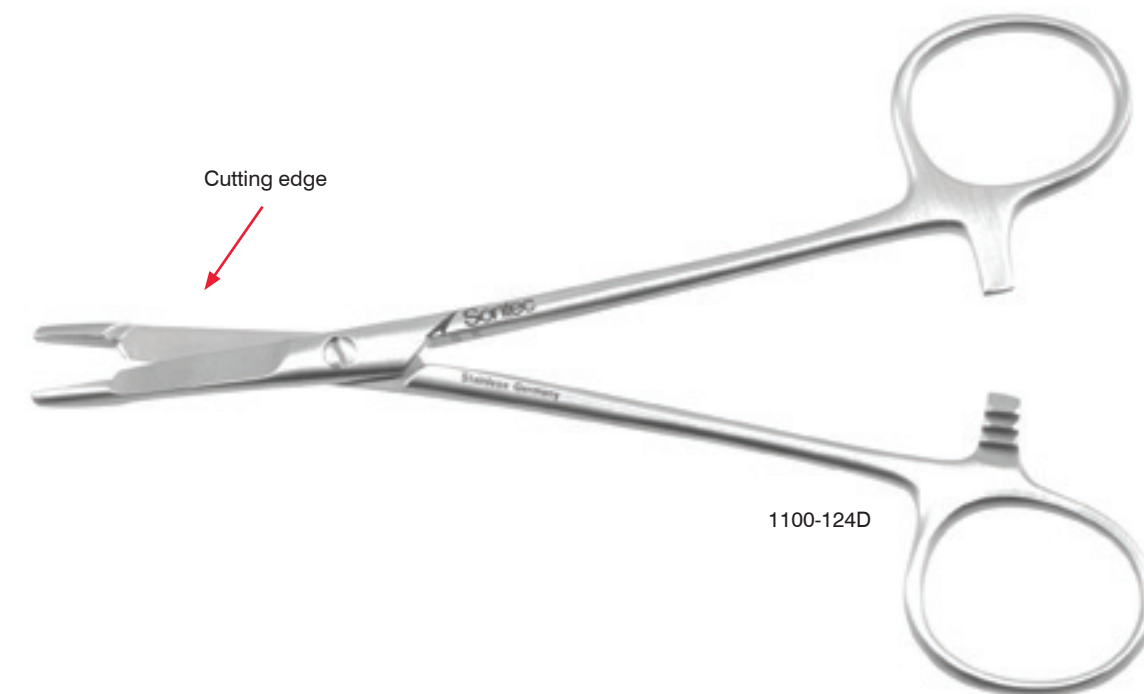
* Custom micro serrations on cutting
blade available upon request

Cutting edge



1100-106DL

Cutting edge

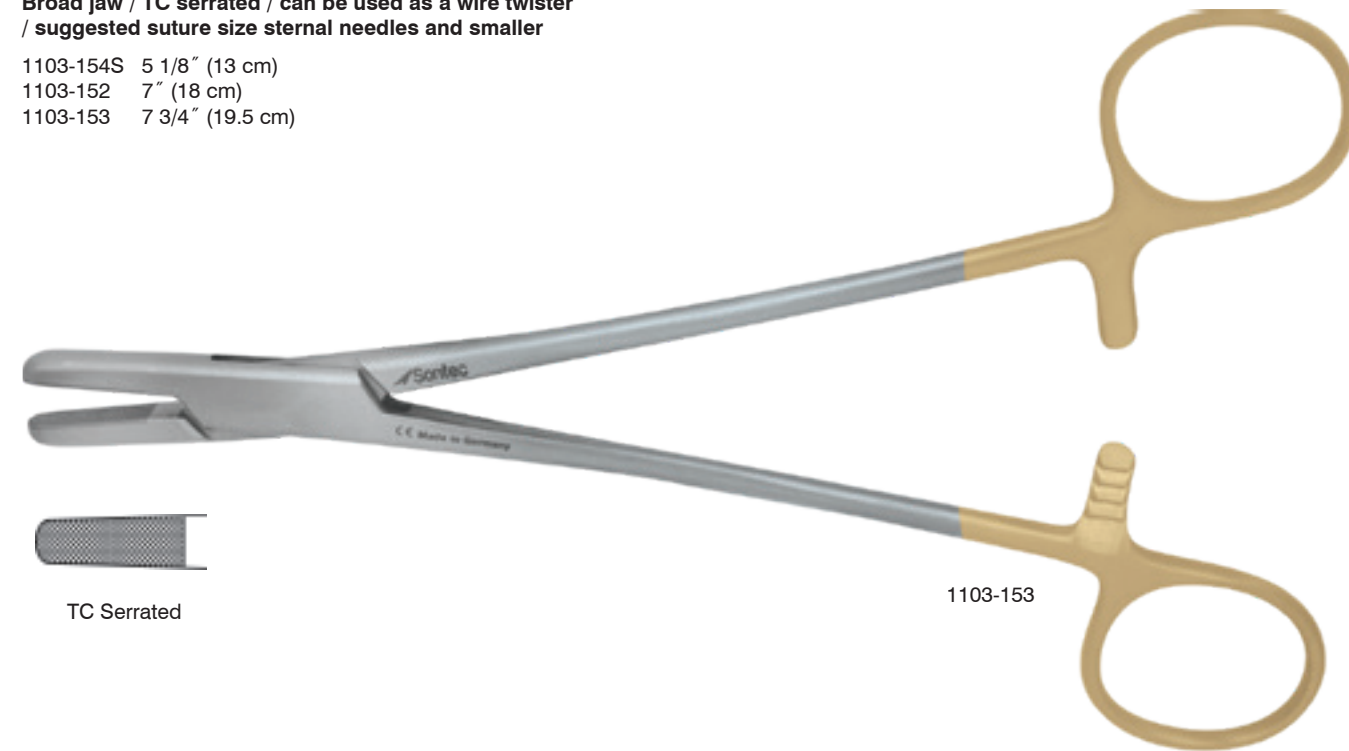


1100-124D

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)

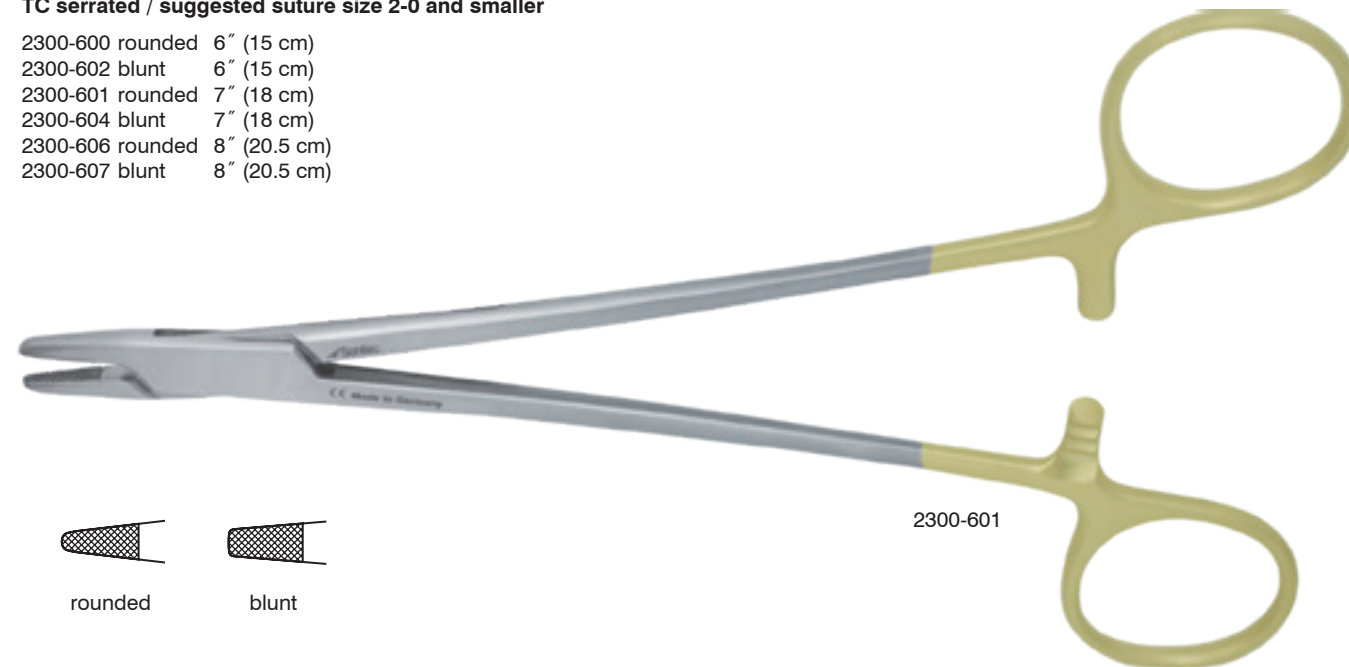


TC Serrated

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

Ryder-Castroviejo Needle Holder

Flat handle / TC serrated / delicate / with lock /
suggested suture size 7-0 and smaller

2300-194	5 3/4" (14.5 cm)
2300-195	7" (18 cm)
2300-196	8 1/2" (21.5 cm)



Castroviejo Needle Holder

Flat handle / TC dust / 5 3/4" (14.5 cm)
/ suggested suture size 7-0 and smaller

15-1916	str	w/o lock	
15-1917	cvd	w/o lock	
15-1912	str	w/lock	
15-1913	cvd	w/lock	
15-1914	str	w/lock	delicate
15-1915	cvd	w/lock	delicate

Flat handle / TC dust / 5 3/4" (14.5 cm)
/ suggested suture size 7-0 and smaller
/ titanium

T15-1916	str	w/o lock	
T15-1917	cvd	w/o lock	
T15-1912	str	w/lock	
T15-1913	cvd	w/lock	
T15-1914	str	w/lock	delicate
T15-1915	cvd	w/lock	delicate

Flat handle / TC insert / 5 3/4" (14.5 cm)
/ suggested suture size 7-0 and smaller

15-1900	str	w/ lock	
15-1910	cvd	w/ lock	
15-1901	str	w/o lock	
15-1911	cvd	w/o lock	



15-1912



15-1913



T15-1913



15-1900



15-1910



TC Smooth straight



TC Dust straight



TC Dust curved



TC Insert straight



TC Insert curved



TC Serrated

Castroviejo Needle Holder with Scissors

Flat handle / TC insert / 5 1/2" (14 cm) / suggested suture
size 7-0 and smaller

15-1980	str	w/ lock	
15-1982	cvd	w/ lock	



15-1980



15-1982



TC Smooth straight



TC Dust straight



TC Dust curved



TC Insert straight



TC Insert curved

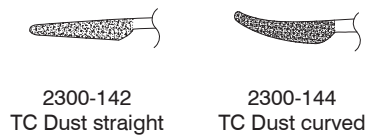


TC Serrated

Jacobson Needle Holder

Flat handle / TC dust / suggested suture size 7-0 and smaller

2300-054	str	w/o lock	6 3/4" (17 cm)
2300-056	cvd	w/o lock	6 3/4" (17 cm)
2300-062	str	w/o lock	7 1/4" (18.5 cm)
2300-064	cvd	w/o lock	7 1/4" (18.5 cm)
2300-070	str	w/o lock	8" (21 cm)
2300-072	cvd	w/o lock	8" (21 cm)
2300-078	str	w/o lock	9 1/4" (23.5 cm)
2300-080	cvd	w/o lock	9 1/4" (23.5 cm)
2300-050	str	w/ lock	6 3/4" (17 cm)
2300-052	cvd	w/ lock	6 3/4" (17 cm)
2300-058	str	w/ lock	7 1/4" (18.5 cm)
2300-060	cvd	w/ lock	7 1/4" (18.5 cm)
2300-066	str	w/ lock	8" (21 cm)
2300-068	cvd	w/ lock	8" (21 cm)
2300-074	str	w/ lock	9 1/4" (23.5 cm)
2300-076	cvd	w/ lock	9 1/4" (23.5 cm)
2300-080A	str	w/ lock	10" (25 cm)
2300-077	str	w/ lock	11" (28 cm)



2300-050



2300-058



2300-066

Jacobson Needle Holder

Flat handle / TC insert / suggested suture size 7-0 and smaller

2300-082A	str	w/o lock	6 3/4" (17 cm)
2300-082D	cvd	w/o lock	6 3/4" (17 cm)
2300-084	str	w/o lock	7 1/4" (18.5 cm)
2300-084D	cvd	w/o lock	7 1/4" (18.5 cm)
2300-087	str	w/o lock	8 3/8" (21.5 cm)
2300-087C	cvd	w/o lock	8 3/8" (21.5 cm)
2300-082	str	w/ lock	6 3/4" (17 cm)
2300-082C	cvd	w/ lock	6 3/4" (17 cm)
2300-084A	str	w/ lock	7 1/4" (18.5 cm)
2300-084C	cvd	w/ lock	7 1/4" (18.5 cm)
2300-083	str	w/ lock	8 1/4" (21 cm)
2300-086	str	w/ lock	8 3/8" (21.5 cm)
2300-085	cvd	w/ lock	8 3/8" (21.5 cm)
2300-081	str	w/ lock	10" (25 cm)
2300-081C	cvd	w/ lock	10" (25 cm)
2300-081A	str	w/ lock	11" (28 cm)



2300-082



2300-084A

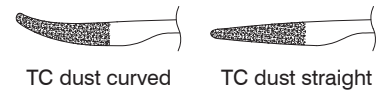


2300-086

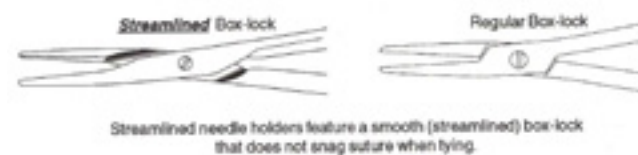
Jacobson Needle Holder Titanium

Flat-Handle / streamlined box lock / TC dust / suggested suture size 7-0 and smaller

2600-6201	str	w/ lock	6" (15 cm)
2600-6221	cvd	w/ lock	6" (15 cm)
2600-6241	str	w/ lock	7 1/8" (18.25 cm)
2600-6261	cvd	w/ lock	7 1/8" (18.25 cm)
2600-6281	str	w/ lock	8 1/4" (21 cm)
2600-6301	cvd	w/ lock	8 1/4" (21 cm)



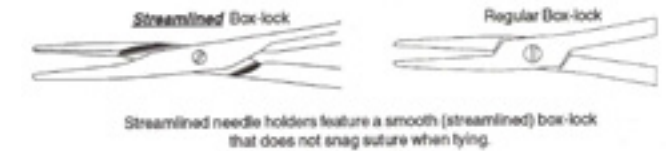
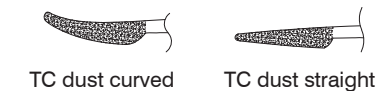
2600-6291	str	w/ lock	9 1/4" (23.5 cm)
2600-6311	cvd	w/ lock	9 1/4" (23.5 cm)
2600-6321	str	w/o lock	6" (15 cm)
2600-6341	cvd	w/o lock	6" (15 cm)
2600-6361	str	w/o lock	7 1/8" (18.25 cm)
2600-6381	cvd	w/o lock	7 1/8" (18.25 cm)
2600-6401	str	w/o lock	8 1/4" (21 cm)
2600-6421	cvd	w/o lock	8 1/4" (21 cm)
2600-6391	str	w/o lock	9 1/4" (23.5 cm)
2600-6411	cvd	w/o lock	9 1/4" (23.5 cm)
2600-6432	str	w/ lock	10" (25.5 cm)
2600-6433	cvd	w/ lock	10" (25.5 cm)
2600-6434	str	w/o lock	10" (25.5 cm)
2600-6435	cvd	w/o lock	10" (25.5 cm)
2600-6472	str	w/ lock	12" (30.5 cm)
2600-6473	cvd	w/ lock	12" (30.5 cm)
2600-6474	str	w/o lock	12" (30.5 cm)
2600-6475	cvd	w/o lock	12" (30.5 cm)



Jacobson Needle Holder Titanium

Flat-handle / standard box lock / TC dust / suggested suture size 7-0 and smaller

2600-620	str	w/ lock	6 1/4" (16 cm)
2600-622	cvd	w/ lock	6 1/4" (16 cm)
2600-624	str	w/ lock	7 1/8" (18.25 cm)
2600-626	cvd	w/ lock	7 1/8" (18.25 cm)
2600-628	str	w/ lock	8 1/4" (21 cm)
2600-630	cvd	w/ lock	8 1/4" (21 cm)
2600-629	str	w/ lock	9 1/4" (23.5 cm)
2600-631	cvd	w/ lock	9 1/4" (23.5 cm)
2600-632	str	w/o lock	6 1/4" (16 cm)
2600-634	cvd	w/o lock	6 1/4" (16 cm)
2600-636	str	w/o lock	7 1/8" (18.25 cm)
2600-638	cvd	w/o lock	7 1/8" (18.25 cm)
2600-640	str	w/o lock	8 1/4" (21 cm)
2600-642	cvd	w/o lock	8 1/4" (21 cm)
2600-639	str	w/o lock	9 1/4" (23.5 cm)
2600-641	cvd	w/o lock	9 1/4" (23.5 cm)



Jacobson Heavy Needle Holder

Flat handle / TC / with lock / suggested suture size 3-0 and smaller / straight

2300-084AH	7"
2300-086H	9"
2300-081H	10"



2300-084AH



Flat handle / straight / TC dust / with lock / suggested suture size 3-0 and smaller / 9"

2300-074H

Jacobson Super Middle Weight Needle Holder

Flat handle / TC dust / with lock / straight / suggested suture size 5-0 and smaller / 9"

2300-074M



2300-074M

Flat handle / TC serrated / with lock / straight / suggested suture size 5-0 and smaller / 9"

2300-086M



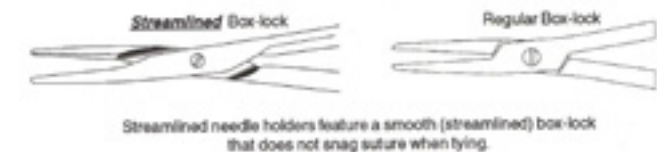
2300-086M

Jacobson Heavy Needle Holder Titanium

Flat-handle / streamlined box lock / heavy / diamond knurled handle / TC dust / suggested suture size 3-0 and smaller

2600-6463	str	w/ lock	7 1/2" (19cm)
2600-6465	str	w/ lock	9" (23cm)
2600-6471	str	w/ lock	10 1/4" (26cm)

 TC dust curved
 TC dust straight



2600-6471



2600-6463

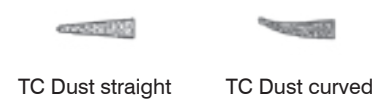


2600-6465

Jacobson Needle Holder

Flat knurled handle / TC dust / 7" (18 cm)
/ suggested suture size 7-0 and smaller

2300-093	str	w/lock
2300-093C	cvd	w/lock
2300-093D	str	w/o lock
2300-093E	cvd	w/o lock



Flat knurled handle / TC dust / 8" (20 cm)
/ suggested suture size 7-0 and smaller

2300-094	str	w/lock
2300-096	cvd	w/lock
2300-098	str	w/o lock
2300-100	cvd	w/o lock



2300-094



2300-096

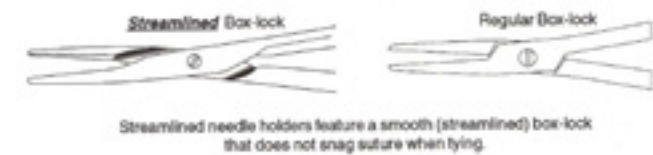
Flat knurled handle / TC dust / 9" (23 cm)
/ suggested suture size 7-0 and smaller

2300-095	str	w/lock
2300-097	cvd	w/lock
2300-099	str	w/o lock
2300-101	cvd	w/o lock

Jacobson Needle Holder Titanium

Flat, knurled handle / standard box lock / TC dust /
straight / with lock

2600-6701	7 1/4" (18.4 cm)
2600-6705	8" (20.3 cm)



2600-6701



2600-6705

Gregory Needle Holder

TC dust / straight / double action /
round handle with lock / suggested
suture size 7.0 and smaller

2300-048	7" (17.8 cm)	
2300-0481	7" (17.8 cm)	TC serrated
2600-730	7" (17.8 cm)	titanium
2300-049	8 1/4" (21 cm)	



2300-048



2300-0481



2600-730



2300-049

Sontec Extra Micro Needle Holder

Round handle / TC dust / extra delicate jaws /
specially serrated grip on shanks / 6" (15 cm) /
suggested suture size 8-0 and smaller

400-254	str	w/lock
400-256	cvd	w/lock
400-250	str	w/o lock
400-252	cvd	w/o lock

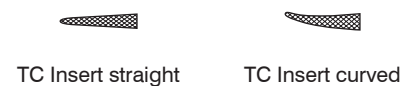


400-254

Castroviejo Needle Holder

Round handle / TC dust / with lock / suggested suture size 7-0 and smaller

2300-020	str	4 3/4" (12 cm)
2300-024	cvd	4 3/4" (12 cm)
2300-030	str	5 3/4" (14.5 cm)
2300-034	cvd	5 3/4" (14.5 cm)
2300-038	str	6" (15 cm)



Round handle / with out lock / TC dust

2300-022	str	4 3/4" (12 cm)
2300-026	cvd	4 3/4" (12 cm)
2300-032	str	5 3/4" (14.5 cm)
2300-036	cvd	5 3/4" (14.5 cm)

Round handle / TC insert / with lock

2300-040	str	6" (15 cm)
2300-042	cvd	6" (15 cm)

Round handle / streamlined / TC serrated / with lock

2300-040S	str	6" (15 cm)
2300-042S	cvd	6" (15 cm)



2300-030



2300-042



2300-040S



2300-042S

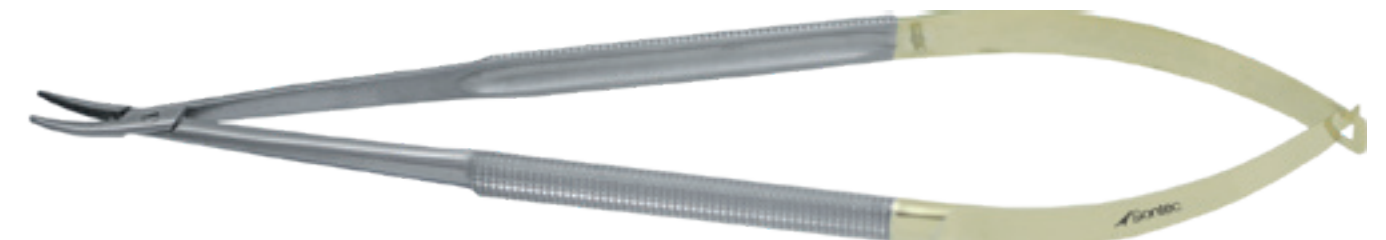
Jacobson Needle Holder

Round handle / TC insert / suggested suture size 7-0 and smaller

2300-139	str	w/o lock	7" (18.5 cm)
2300-141	cvd	w/o lock	7" (18.5 cm)
2300-147	str	w/o lock	8" (21 cm)
2300-149	cvd	w/o lock	8" (21 cm)
2300-155	str	w/o lock	9 1/8" (23.5 cm)
2300-157	cvd	w/o lock	9 1/8" (23.5 cm)
2300-135	str	w/ lock	7" (18.5 cm)
2300-137	cvd	w/ lock	7" (18.5 cm)
2300-143	str	w/ lock	8" (21 cm)
2300-145	cvd	w/ lock	8" (21 cm)
2300-151	str	w/ lock	9 1/8" (23.5 cm)
2300-153	cvd	w/ lock	9 1/8" (23.5 cm)



2300-143

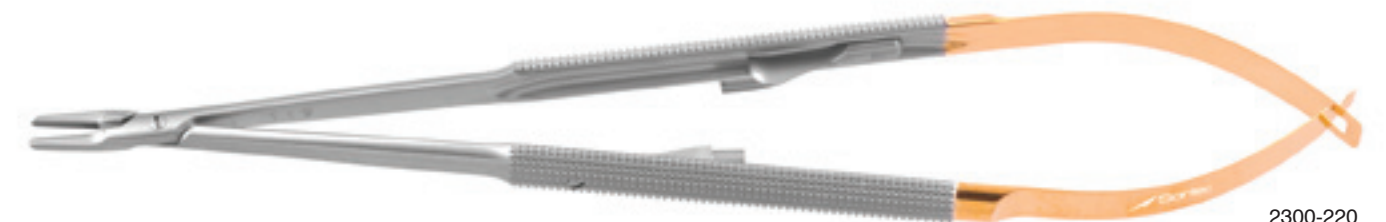


2300-141

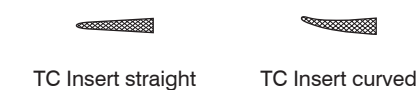
Ryder-Castroviejo Needle Holder

Round-Handle / delicate / with lock / suggested suture size 7-0 and smaller

2300-219	TC serrated	6" (15 cm)
2300-220	TC serrated	7 1/4" (18.5 cm)
2300-221	TC serrated	8 1/4" (21 cm)



2300-220



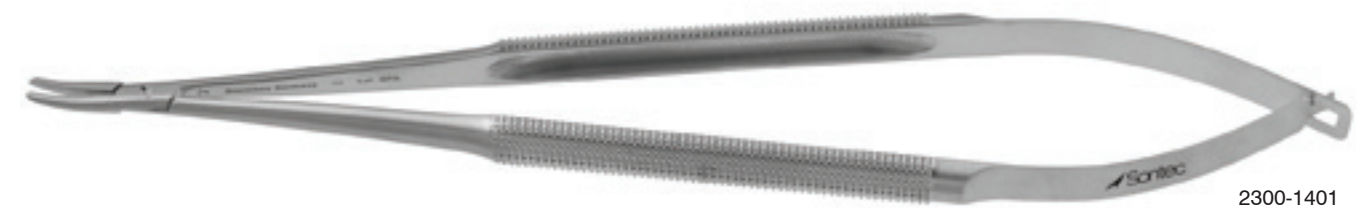
Jacobson Needle Holder

Round handle / TC dust / suggested suture size 7-0 and smaller

2300-130	str	w/o lock	6 1/4" (16 cm)
2300-132	cvd	w/o lock	6 1/4" (16cm)
2300-138	str	w/o lock	7" (18.5 cm)
2300-140	cvd	w/o lock	7" (18.5 cm)
2300-1401	cvd	w/o lock	7" (18.5 cm)
2300-146	str	w/o lock	8" (21 cm)
2300-148	cvd	w/o lock	8" (21 cm)

2300-154	str	w/o lock	9 1/8" (23.5 cm)
2300-154U	str	w/universal lock	9 1/8" (23.5 cm)
2300-156	cvd	w/o lock	9 1/8" (23.5 cm)
2300-1540	str	w/o lock	10" (25 cm)
2300-1560	cvd	w/o lock	10" (25 cm)
2300-1541	str	w/o lock	11" (28 cm)
2300-1561	cvd	w/o lock	11" (28 cm)

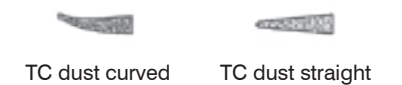
2300-126	str	w/ lock	6 1/4" (16 cm)
2300-128	cvd	w/ lock	6 1/4" (16 cm)
2300-134	str	w/ lock	7" (18.5 cm)
2300-136	cvd	w/ lock	7" (18.5 cm)
2300-142	str	w/ lock	8" (21 cm)
2300-144	cvd	w/ lock	8" (21 cm)



Jacobson Needle Holder Titanium

Round-handle / standard box lock / TC dust / suggested suture size 5-0 and smaller

2600-645	str	w/ lock	6" (15 cm)
2600-647	cvd	w/ lock	6" (15 cm)
2600-649	str	w/ lock	7 1/8" (18.25 cm)
2600-650	cvd	w/ lock	7 1/8" (18.25 cm)
2600-653	str	w/ lock	8 1/4" (21 cm)
2600-654	cvd	w/ lock	8 1/4" (21 cm)



2600-643	str	w/ lock	9 1/8" (23.5 cm)
2600-651	cvd	w/ lock	9 1/8" (23.5 cm)
2600-655	str	w/ lock	10" (25 cm)
2600-656	cvd	w/ lock	10" (25 cm)
2600-6553	str	w/ lock	10" (25 cm) *
2600-6563	cvd	w/ lock	10" (25 cm) *

* Short / knurled handle



2600-657	str	w/o lock	6" (15 cm)
2600-658	cvd	w/o lock	6" (15 cm)
2600-661	str	w/o lock	7 1/8" (18.25 cm)
2600-662	cvd	w/o lock	7 1/8" (18.25 cm)
2600-665	str	w/o lock	8 1/4" (21 cm)
2600-666	cvd	w/o lock	8 1/4" (21 cm)



Streamlined needle holders feature a smooth (streamlined) box-lock that does not snag suture when tying.

2600-652	str	w/o lock	9 1/8" (23.5 cm)
2600-669	cvd	w/o lock	9 1/8" (23.5 cm)
2600-667	str	w/o lock	10" (25 cm)
2600-668	cvd	w/o lock	10" (25 cm)
2600-6673	str	w/o lock	10" (25 cm) *
2600-6683	cvd	w/o lock	10" (25 cm) *

* Short / knurled handle

Jacobson Micro Needle Holder Titanium

TC insert / suggested suture size 7-0 and smaller

2600-6496	str	w/ lock	7" (17.8 cm)
2600-6506	cvd	w/ lock	7" (17.8 cm)
2600-6536	str	w/ lock	8 1/4" (21 cm)
2600-6546	cvd	w/ lock	8 1/4" (21 cm)



2600-6496



2600-6536

Jacobson Needle Holder Titanium

Round-handle / streamlined box lock / TC dust / suggested suture size 5-0 and smaller

2600-646	str	w/lock	6" (15 cm)
2600-648	cvd	w/ lock	6" (15 cm)
2600-6491	str	w/ lock	7 1/8" (18.25 cm)
2600-6502	cvd	w/ lock	7 1/8" (18.25 cm)
2600-6531	str	w/ lock	8" (21 cm)
2600-6542	cvd	w/ lock	8" (21 cm)



All available in a curved tip



TC dust curved



TC dust straight



2600-646



2600-6491

2600-6431	str	w/ lock	9 1/8" (23.5 cm)
2600-6512	cvd	w/ lock	9 1/8" (23.5 cm)
2600-6551	str	w/ lock	10" (25 cm)
2600-6562	cvd	w/ lock	10" (25 cm)



2600-6551

2600-6461	str	w/o lock	6" (15 cm)
2600-6481	cvd	w/o lock	6" (15 cm)
2600-6611	str	w/o lock	7 1/8" (18.25 cm)
2600-6622	cvd	w/o lock	7 1/8" (18.25 cm)
2600-6651	str	w/o lock	8" (21 cm)
2600-6662	cvd	w/o lock	8" (21 cm)



Streamlined needle holders feature a smooth (streamlined) box-lock that does not snag suture when tying.

2600-6521	str	w/o lock	9 1/8" (23.5 cm)
2600-6692	cvd	w/o lock	9 1/8" (23.5 cm)
2600-6671	str	w/o lock	10" (25 cm)
2600-6682	cvd	w/o lock	10" (25 cm)
2600-6476	str	w/lock	12" (30.5 cm)



2600-6476

Jacobson Super Middle Weight Needle Holder Titanium

Mid-weight / with lock / TC dust / 8 1/2" (21.6 cm) / suggested suture size 5-0 and smaller

2600-712	standard box lock	
2600-713	streamlined	
2600-704M	standard box lock	extended knurling



standard



streamlined

Streamlined needle holders feature a smooth (streamlined) box-lock that does not snag suture when tying.



2600-712



2600-713



2600-704M

Jacobson Heavy Needle Holder Titanium

Heavy duty / streamlined box lock / with lock / TC dust / extra heavy jaw / extra strong / extremely lightweight / also available in SS / suggested suture size 2-0 and smaller

2600-702	7 1/2" (19 cm)
2600-710	9" (23 cm)
2600-711	10" (25 cm)
2600-718	12" (30.5 cm)



TC dust



Streamlined needle holders feature a smooth (streamlined) box-lock that does not snag suture when tying.



2600-702



2600-710



2600-711

Jacobson Heavy Titanium Needle Holder

TCD / round handle / universal lock / straight / suggested suture size 2-0 and smaller

2600-706	8" (20.3 cm)
2600-709	9 1/4" (23.5 cm)



2600-706

Jacobson Super Middle Weight Needle Holder

Mid-weight / with lock / TC serrated / straight / 1.8 mm jaw / suggested suture size 5-0 and smaller

2300-135M	7 1/4
2300-143M	8 1/4
2300-151M	9 1/8

Mid-weight / with lock / TC dust / straight / suggested suture size 5-0 and smaller

2300-134M



2300-143M

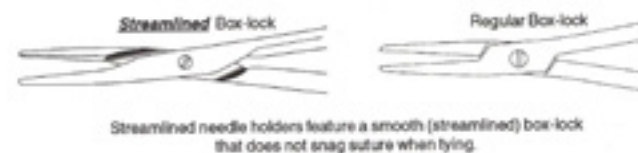


2300-134M

Jacobson Short Knurled Handle Micro Needle Holder

Short knurled round handle / TC dust / standard box lock / suggested suture size 7-0 and smaller / 9" (23 cm)

2300-158	str	w/ lock
2300-160	cvd	w/ lock
2300-162	str	w/o lock
2300-164	cvd	w/o lock



2300-158

Jacobson Needle Holder

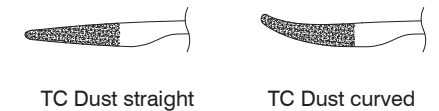
Round handle / TC dust / streamlined box lock / suggested suture size 5-0 and smaller

2300-130S	str	w/o lock	6" (15 cm)
2300-132S	cvd	w/o lock	6" (15 cm)
2300-138S	str	w/o lock	7 1/8" (18.25 cm)
2300-140S	cvd	w/o lock	7 1/8" (18.25 cm)
2300-170	str	w/o lock	8 1/4" (21 cm)
2300-172	cvd	w/o lock	8 1/4" (21 cm)

2300-154S	str	w/o lock	9 1/4" (23.5 cm)
2300-156S	cvd	w/o lock	9 1/4" (23.5 cm)

2300-126S	str	w/ lock	6" (15 cm)
2300-128S	cvd	w/ lock	6" (15 cm)
2300-134S	str	w/ lock	7 1/8" (18.25 cm)
2300-136S	cvd	w/ lock	7 1/8" (18.25 cm)
2300-166	str	w/ lock	8 1/4" (21 cm)
2300-168	cvd	w/ lock	8 1/4" (21 cm)

2300-150S	str	w/ lock	9 1/4" (23.5 cm)
2300-152S	cvd	w/ lock	9 1/4" (23.5 cm)
2300-1510S	str	w/ lock	10" (25.5 cm)
2300-1530S	cvd	w/ lock	10" (25.5 cm)



TC Dust straight

TC Dust curved



2300-126S



2300-134S

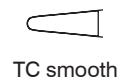


2300-166

Diethrich Needle Holder

Delicate / TC serrated / straight / suggested suture size 7-0 and smaller

2300-439	6 1/2" (16.5 cm)
2300-441	7 1/4" (18.5 cm)
2300-443	8" (20 cm)
2300-447	9" (23 cm)



Delicate / TC dust / straight / suggested suture size 7-0 and smaller

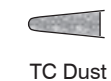
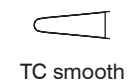
2300-439D	6 1/2" (16.5 cm)
2300-441D	7 1/4" (18.5 cm)
2300-443D	8" (20 cm)
2300-447D	9" (23 cm)



Diethrich Needle Holder

Delicate / smooth / straight / suggested suture size 7-0 and smaller

2300-439B	6 1/2" (16.5 cm)
2300-441B	7 1/4" (18.5 cm)
2300-443B	8" (20 cm)
2300-447B	9" (23 cm)



Delicate / 1 mm / TC serrated / straight / suggested suture size 7-0 and smaller

2300-442	6 1/2" (16.5 cm)
2300-444	7 1/4" (18.5 cm)
2300-446	8" (20 cm)
2300-448	9" (23 cm)

1 mm / TC dust / straight / suggested suture size 7-0 and smaller

2300-442D	6 1/2" (16.5 cm)
2300-444D	7 1/4" (18.5 cm)
2300-446D	8" (20 cm)
2300-448D	9" (23 cm)

1 mm / TC serrated / curved / suggested suture size 7-0 and smaller

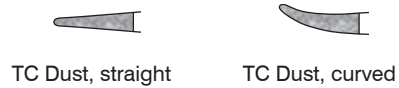
2300-445	7 1/4" (18.5 cm)
----------	------------------



Double-Action SS Needle Holder

**Stainless / TC dust / round handle / 7 1/4" (18.5 cm)
/ suggested suture size 5-0 and smaller**

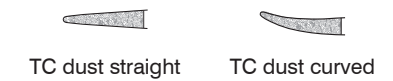
1103-888	straight	
1103-887	straight	universal lock
1103-888C	curved	
1103-887C	curved	universal lock



Double Action Needle Holder Titanium

**TC dust / with universal lock / suggested suture size 5-0
and smaller**

2600-683L	str	7 1/8" (18.25 cm)
2600-684L	cvd	7 1/8" (18.25 cm)
2600-682	str	8 1/4" (21 cm)
2600-682L	cvd	8 1/4" (21 cm)
2600-684S	str	9" (23 cm)
2600-684C	cvd	9" (23 cm)



**TC dust / without lock / suggested suture size 5-0 and
smaller**

2600-682S	str	6" (15 cm)
2600-682C	cvd	6" (15 cm)
2600-683	str	7 1/4" (18.5 cm)
2600-684	cvd	7 1/4" (18.5 cm)
2600-684DL	cvd	10" (25.5 cm)



TC dust / without lock / delicate / curved / 7 1/4" (18.4 cm)

2600-684D	0.6 mm
2600-684D5	0.5 mm



Micro Bayonet Needle Holder

3 hole / 8" (20 cm) / streamlined / suggested suture size 7-0 and smaller / TC dust / 0.9 mm tip

400-238 str
400-239 cvd
400-240 str with lock
400-241 cvd with lock

3 hole / 9" (23 cm) / streamlined / suggested suture size 7-0 and smaller / TC dust / 0.9 mm tip

400-242 str
400-243 cvd
400-244 str with lock
400-245 cvd with lock



3 hole / 9 1/2" (24 cm) / streamlined / suggested suture size 7-0 and smaller / TC dust / 0.9 mm tip

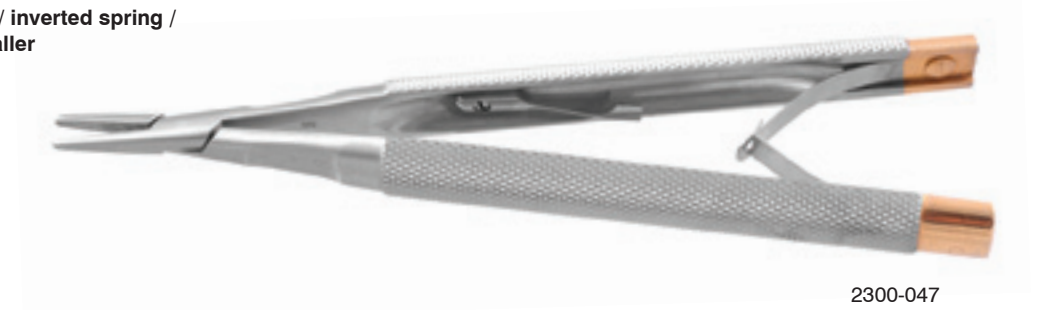
400-246 str
400-247 cvd
400-248 str with lock
400-249 cvd with lock

400-244

Barraquer Reverse Needle Holder

TC dust / round handle / with lock / inverted spring / suggested suture size 5-0 and smaller

2300-047 4 3/4" (12.1 cm)
2300-046 7" (17.8 cm)



2300-047

Glasser Micro Needle Holder

TC dust / round handle / with lock / inverted spring / suggested suture size 5-0 and smaller/ 4 7/8" (12 cm)

2300-0496 straight
2300-0497 curved



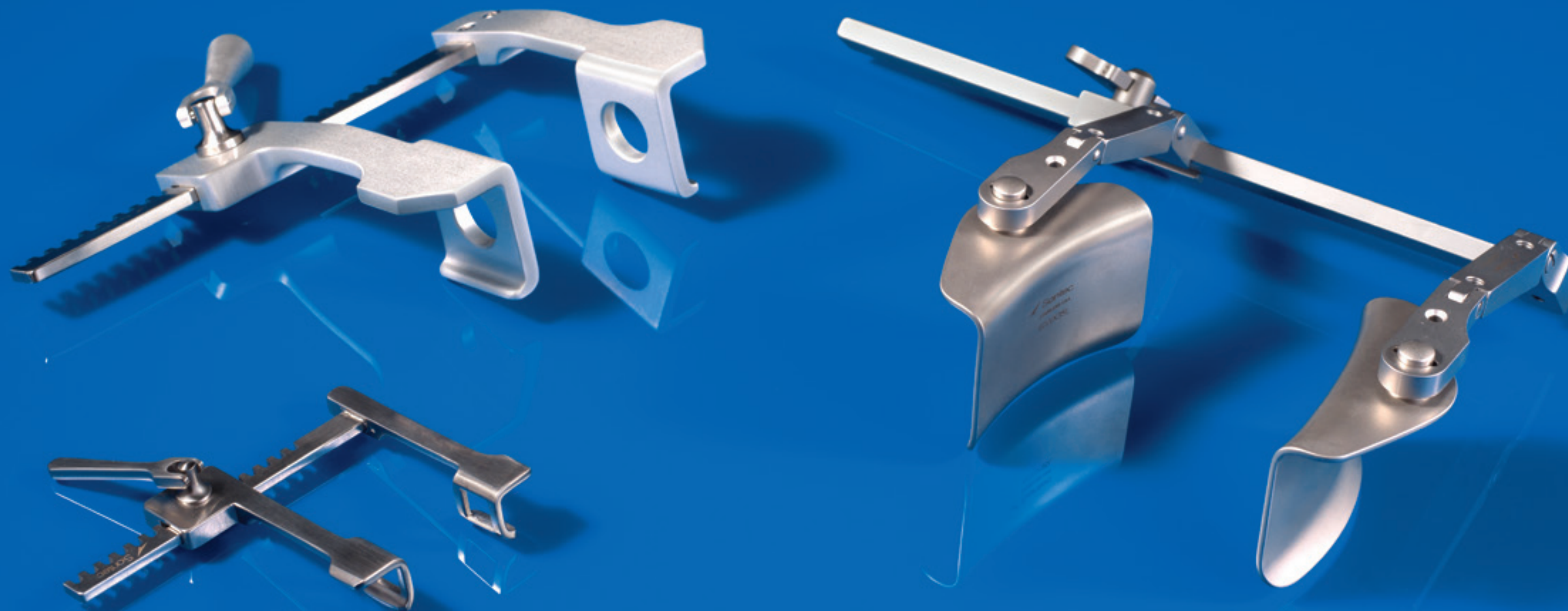
2300-0496

TC dust / round handle / with lock / inverted spring / suggested suture size 5-0 and smaller/ 7" (17.8 cm)

2300-0498 straight
2300-0499 curved



2300-0499



 Sontec Instruments®

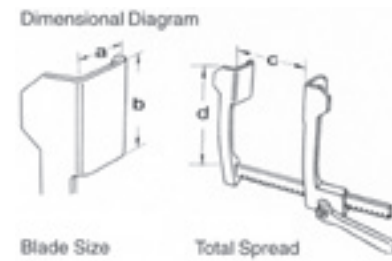
Retractors

Shanghai Neonatal Finochietto Retractor

Swivel blades

2500-206 mini neonatal size swivel blades
2500-208 neonatal size

Item	a	b	c	d
2500-206	5 mm	13 mm	25 mm	40 mm
2500-208	10 mm	30 mm	70 mm	70 mm



Shanghai Finochietto Retractor, swivel blades



2500-206



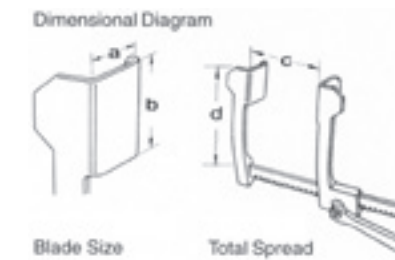
2500-208

Shanghai Infant Finochietto Retractor

Swivel blades

2500-210 infant

a	b	c	d
12 mm	40 mm	115 mm	85 mm

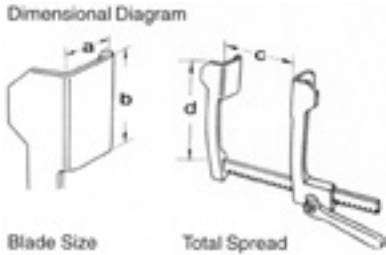


2500-210

Shanghai Small Infant Finochietto Retractor

Swivel blades
2500-213 small infant size

a	b	c	d
13 mm	32.5 mm	115 mm	74 mm

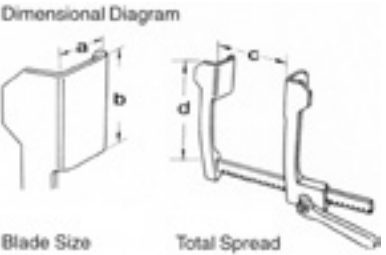


2500-213

Shanghai Adolescent Finochietto Retractor

Swivel blades
2500-215 pediatric

a	b	c	d
17 mm	50 mm	110 mm	79 mm



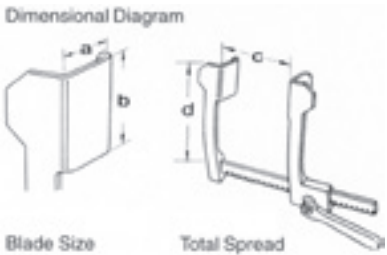
2500-215

Shanghai Adult Finochietto Retractor

Swivel blades

2500-216 adult size
2500-216L adult size

2500-216				2500-216L			
a	b	c	d	a	b	c	d
38 mm	60 mm	170 mm	125 mm	38 mm	60 mm	170 mm	180 mm



Finochietto Spreader Retractor

Stainless steel

2500-095 #1 infant

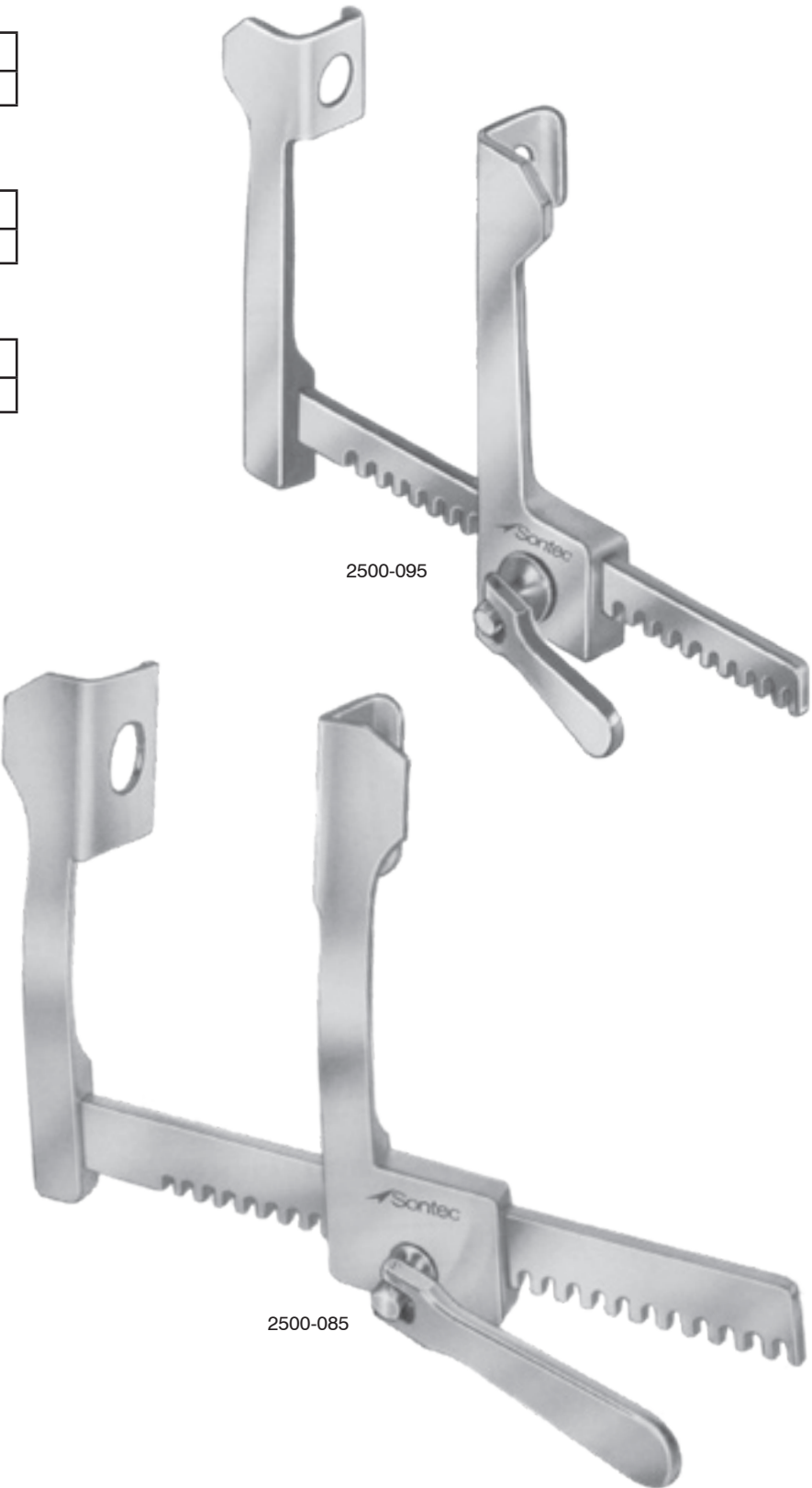
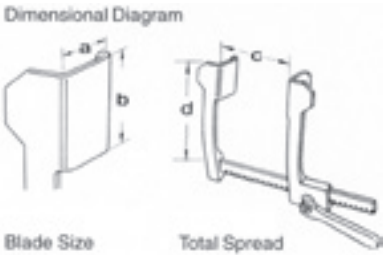
a	b	c	d
12 mm	15 mm	70 mm	55 mm

2500-095B #2 infant

a	b	c	d
12 mm	15 mm	50 mm	50 mm

2500-085 small children size

a	b	c	d
30 mm	45 mm	140 mm	110 mm



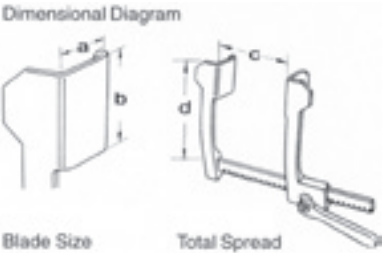
Finochietto Rib Spreader Retractor

2500-087 medium adult size stainless steel
2500-087B medium adult size aluminum

a	b	c	d
42 mm	62 mm	185 mm	140 mm

2500-089 large adult size stainless steel

a	b	c	d
73 mm	65 mm	185 mm	140 mm



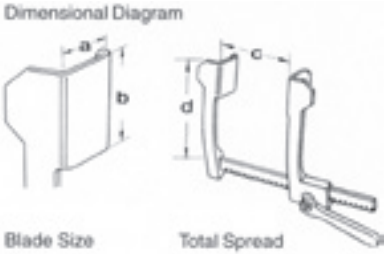
Baby Haight Rib Spreader Retractor

Stainless steel
2500-124 child size

a	b	c	d
30 mm	30 mm	85 mm	70 mm

2500-123 adult size

a	b	c	d
30 mm	30 mm	120 mm	90 mm



Harken-Nissen Rib Spreader Retractor

Stainless steel / detachable scapula blades

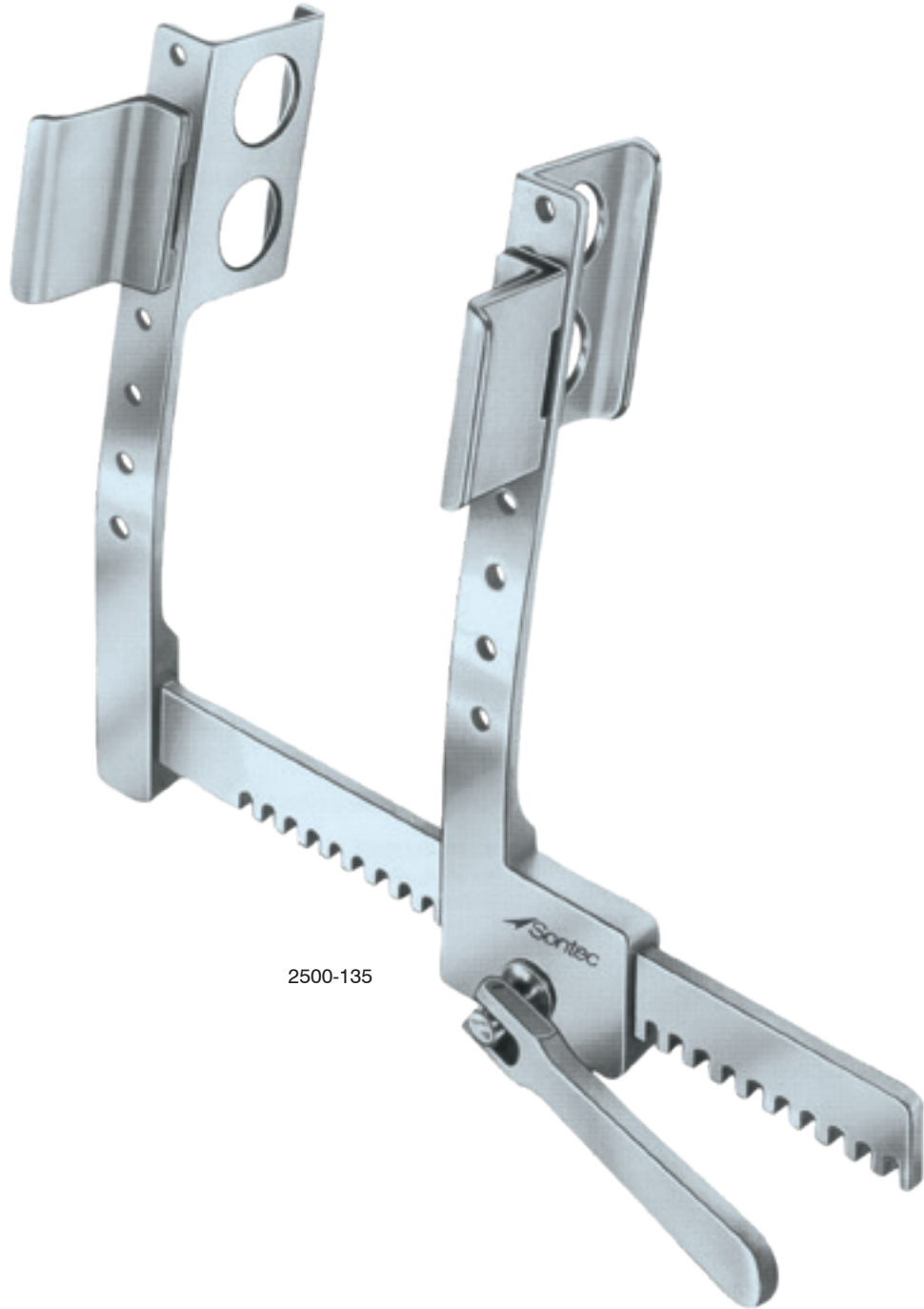
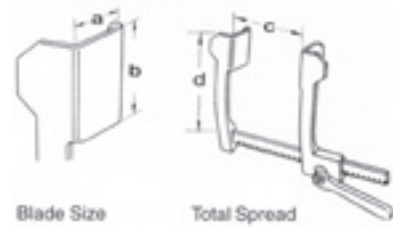
2500-135 adult size

a	b	c	d
40 mm	75 mm	185 mm	185 mm

Detachable scapula blades

2500-137 30 mm x 50 mm

Dimensional Diagram



2500-135

Mini Finochietto Retractor Titanium

With 2 sets of blades

2605-140

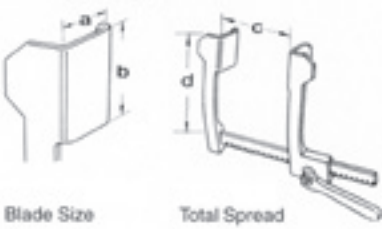
Fenestrated blade

a	b	c	d
15 mm	10 mm	52 mm	mm

Solid blade

a	b	c	d
15 mm	20 mm	52 mm	mm

Dimensional Diagram



Neonatal Finochietto Retractor

1 3/8" (3.5 cm) spread

2500-093

a	b	c	d
6 mm	7 mm	36 mm	25 mm



2500-093

Finochietto-Baby-Haight Rib Spreader Retractor

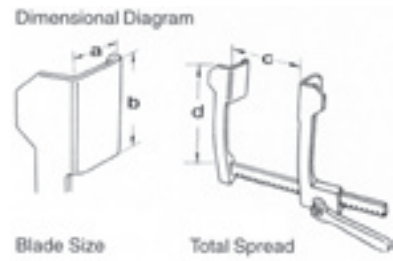
Stainless steel

2500-131 child size

a	b	c	d
28 mm	30 mm	100 mm	75 mm

2500-131L child size extended rack

a	b	c	d
28 mm	30 mm	100 mm	165 mm



2500-131

Strong Weitlaner Retractor

3 1/2" (9 cm)

2500-336 4 x 4 prongs

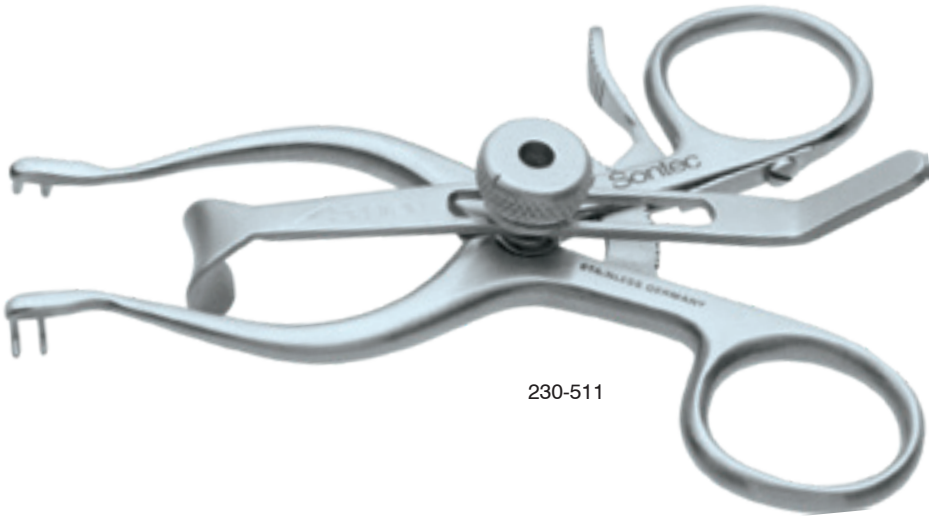


2500-336

Micro Weitlaner-Henley Retractor

4 3/4" (12 cm) / with locking third arm / #2 blade

230-511 2 x 2 prongs

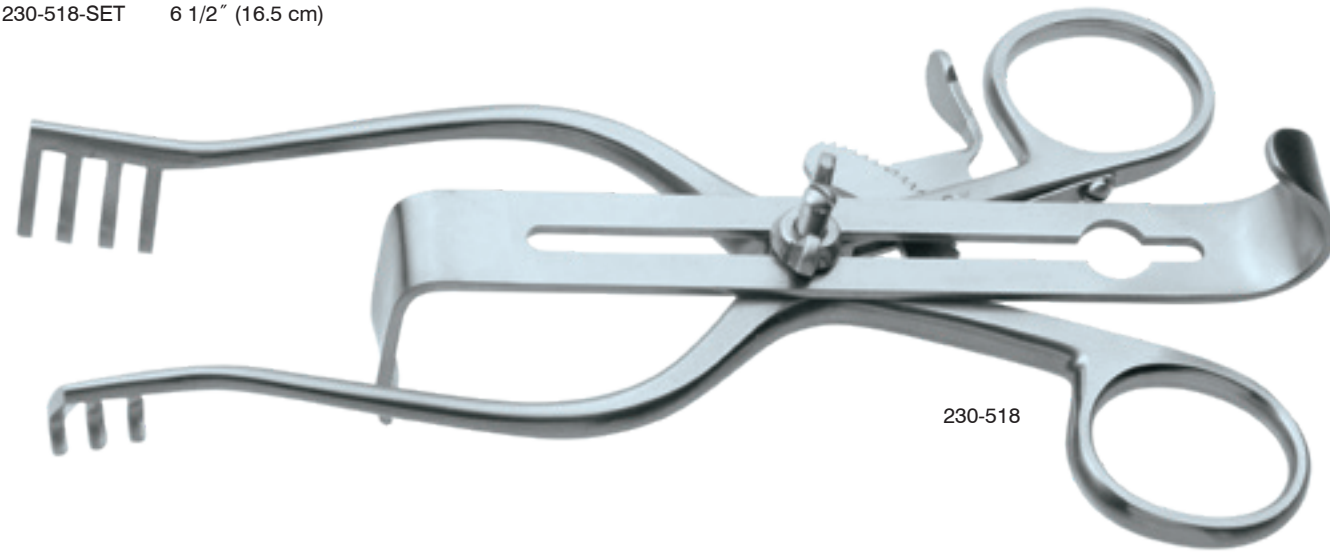


230-511

Henly Carotid Retractor

3 blades (sm, med, lg) / 3 x 4 prongs

230-518-SET 6 1/2" (16.5 cm)

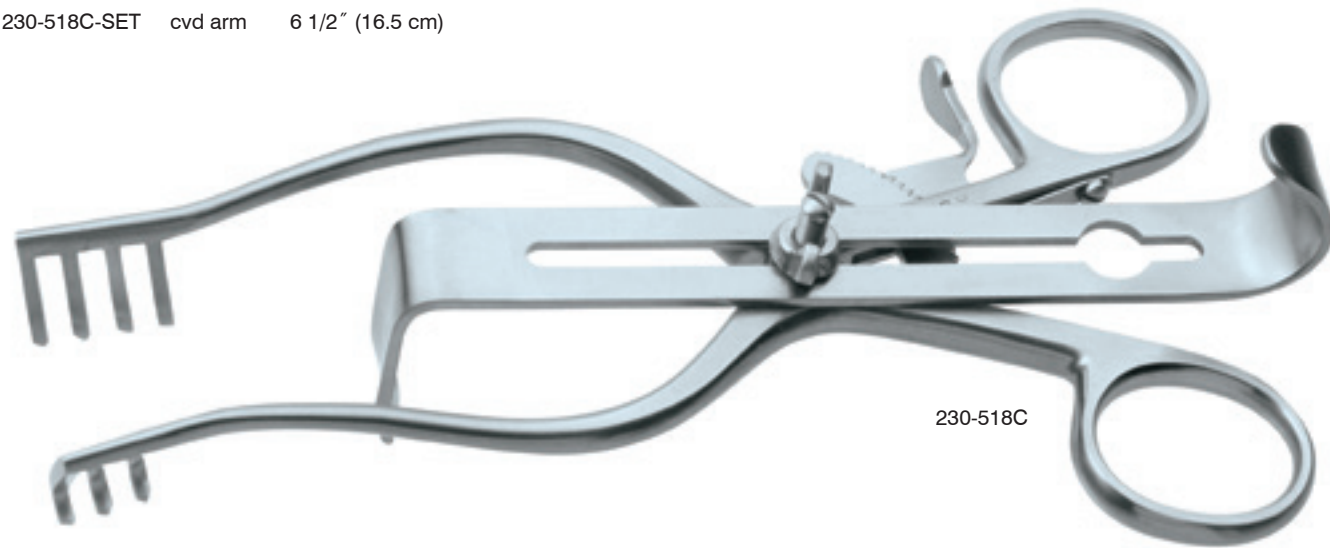


230-518

Menzoian-Henly Carotid Retractor

Original 3 blades (sm, med, lg) / 3 x 4 prongs / including both Menzoian blades

230-518C-SET cvd arm 6 1/2" (16.5 cm)



230-518C

Henly Carotid Retractor Blades

230-518-1	small blade		5/8" (15.8 mm) x 3/4" (19 mm)
230-518-2	medium blade		5/8" (15.8 mm) x 1" (25 mm)
230-518-3	long blade		5/8" (15.8 mm) x 1 1/4" (31 mm)
230-518-4	extra long	menzoian	5/8" (15.8 mm) x 1 1/2" (38.1 mm)
230-518-5	extra long	menzoian	5/8" (15.8 mm) x 1 3/4" (44.5 mm)



230-518-5

230-518-4

230-518-3

230-518-2

230-518-1

Parsonnet Epicardial Retractor

3 x 3 sharp prongs

2500-340	small
2500-345	medium
2500-349	large



2500-340



2500-345



2500-349

Titanium I.M.A. Epicardial Retractor

47 mm

2500-347T



2500-347T

Allison Lung Retractor

2500-017	child size	40 mm x 10 3/4"
2500-019	adult size	50 mm x 12 1/2"



2500-017

Ionescu Double-Ended Valve Retractor

2500-300	medium	7 1/8" (18.5 cm)
2500-305	large	9" (23 cm)



2500-305



2500-300

Ionescu Double-Ended Leaflet Valve Retractor

2500-310	small	8 1/4" (21 cm)
----------	-------	----------------



2500-310

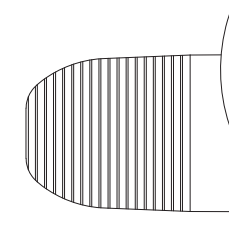
Titanium Wood Valve Retractor

Double ended / blade A: 28 mmD X 20 mm W / blade B: 40 mmX 20 mm W / 305 mm long / 12" (30.5 cm)

2500-280



2500-280



Sontec S-Curve Retractor

Sontec special model / hard/ flexible / 8" (20cm)

207-417	3/4" tapered to 1/2"	8" (20cm)
207-418	1/2"	8" (20 cm)
207-419-10	10 mm	7" (18 cm)
207-419-12	12.7 mm	7" (18 cm)



Deaver Retractor

Delicate

207-420	1/4" x 7"	
207-421	3/8" pediatric size	
207-422	3/4" x 7"	
207-422L	3/4" x 7"	illuminated
207-423	7/8" x 8 1/2"	
207-423A	5/8" x 8 1/2"	
207-423L	7/8" x 8 1/2"	illuminated
207-424	1" x 12"	
207-424L	1" x 12"	illuminated
207-425	1" x 13"	
207-426	1" x 14"	
207-427	1 1/2" x 12"	
207-428	2" x 12"	
207-429	3" x 12"	
207-431	1" x 9"	



Senn Retractor

Double-ended / 6 1/4" (16 cm)

1100-668 sharp
1100-668B blunt
1100-668T sharp titanium



1100-668



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

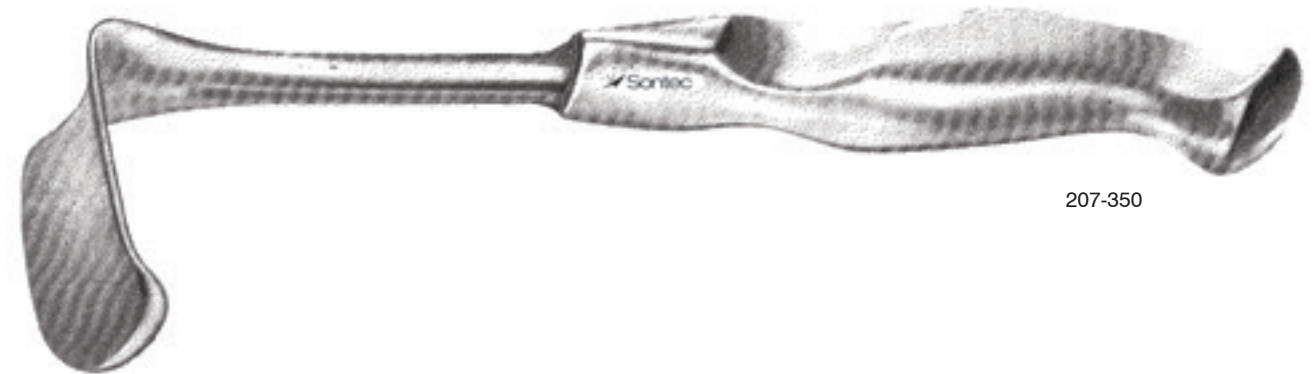


205-849B

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

Cushing Vein Retractor

10 x 10 mm Blade / 9"

207-302



207-302

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

Gans Retractor Set

5 1/2"

2500-014-SET	(small & large)
2500-012	small #1
2500-013	large #2



2500-012



2500-013

Cochran Pediatric Retractor

6 1/2"

2500-001	3/4" (2 cm)
2500-003	5/8" (1.5 cm)
2500-005	1/2" (1.25 cm)
2500-007	3/8" (1 cm)
2500-009	1/4" (.5 cm)
2500-011	set of 5



2500-009



2500-007



2500-005



2500-003



2500-001

Love Nerve Root Retractor

Classic model / flat handle

412-610 str
412-612 45°
412-614 90°



Gil-Vernet Retractor

9 3/4" (24 cm)

2500-390 9 mm
2500-394 11 mm
2500-398 13 mm
2500-392 15 mm
2500-396 18 mm



Malleable / 11" (28 cm)

2500-400 9 mm
2500-402 11 mm
2500-404 13 mm
2500-406 15 mm
2500-408 18 mm



Cushing Retractor

8" (20 cm)

2500-350 8 mm
2500-352 10 mm
2500-354 12 mm
2500-356 14 mm
2500-358 16 mm
2500-360 18 mm



9 1/2" (24 cm)

2500-370 8 mm
2500-372 10 mm
2500-374 12 mm
2500-376 14 mm
2500-378 16 mm
2500-380 18 mm



Wide handle / 10" (25 cm)

2500-384 14 x 11 mm
2500-386 18 x 13 mm
2500-388 22 x 15 mm



Desmarres Lid Retractor

Stainless steel / 5 1/2" (14 cm)

10-4192 6 mm

10-4194 8 mm

10-4196 9 mm

10-4198 10 mm

10-4200 11 mm

10-4201 11 mm

10-4206 12 mm

10-4207 12 mm

10-4210 13 mm

10-4213 13 mm

10-4216 14 mm

10-4220 15 mm

electro-blue coated

electro-blue coated

electro-blue coated



10-4200



10-4223

10-4223 15 mm

10-4226 16 mm

10-4227 16 mm

10-4230 17 mm

electro-blue coated

electro-blue coated



10-4236

10-4218 14 mm

10-4233 17 mm

10-4236 18 mm

10-4237 18 mm

10-4240 19 mm

electro-blue coated

electro-blue coated



10-4192



10-4196



10-4198



10-4206



10-4216



10-4226

Gil-Vernet Desmarres Retractor

5 3/4" (14.5 cm)

10-4211 size 1

10-4221 size 2

10-4231 size 3

10-4241 size 4



10-4211



10-4231



10-4221



10-4241



10-4241

Meyering Finger Retractor

7" (18 cm)

205-856 style 1

205-857 style 2

205-858 style 3

205-859 style 4

205-860 style 5

205-861 style 6



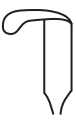
style 1



style 2



style 3



style 4



style 5



style 6



205-857



205-858



205-861

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 1 3"

207-474 1 3/4" x 13"

207-473 2 3/4" x 13"



207-466



207-460



 Sontec Instruments®

Scissors

Sontec® Scissors are simply unmatched in design, function, quality and variety. Sontec Scissors are offered in any model blade, shape or size in all of our model options listed below:

Classic Model

- Combining extremely high quality with unmatched value
- Satin or high gloss finish

Tungsten Carbide - TC inserts

Gold Rings

- diamond-ground tungsten-carbide inserts
- extremely sharp
- Blade hardness greatly increases scissor life
- available with or without serrations

Powercut blades ® - PC gold

Gold Rings with Stripes on Shanks

- sharpest cutting edge available
- serrated unless otherwise requested
- Finished in Sontec's Trademarked PC Gold design
- All the attributes of Sontec PC Black scissors

Powercut blades® - PC black

Black Rings

- All the attributes of Sontec PC Gold
- Beautifully ornamented in black chrome

Tungsten Carbide / Power Cut - TC/PC:

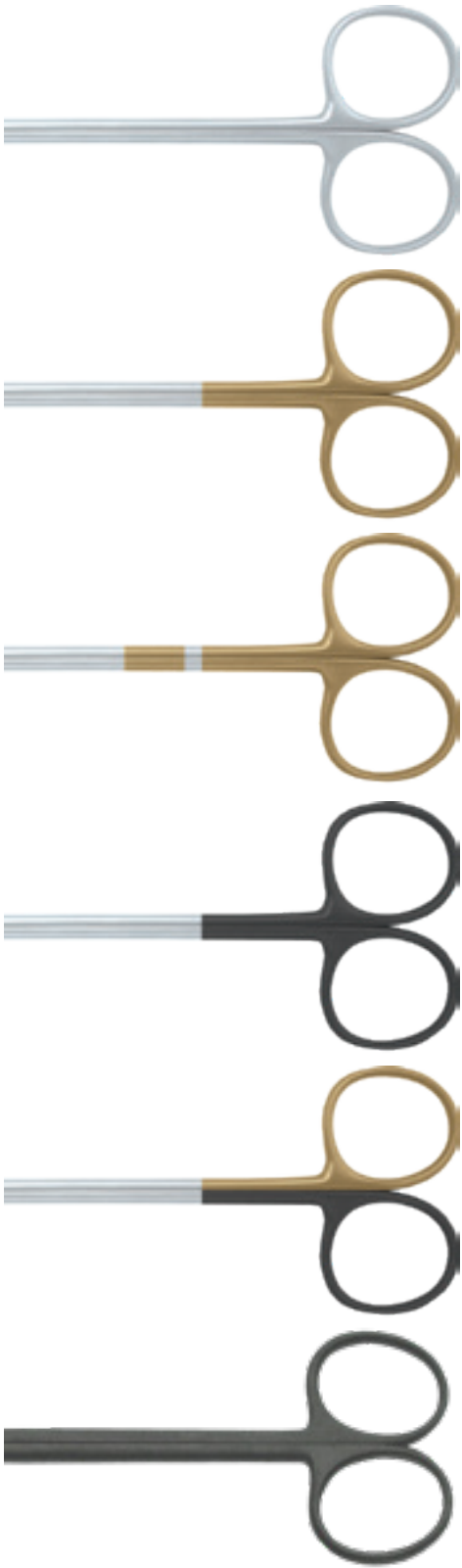
Gold Ring / Black Ring

- Serrated unless otherwise requested
- a combination of the best options
- HANDLE: one gold ring, one black ring
- This premier line encompasses TC long life, PC power, and Sontec Quality

Ceramic Coated Scissors:

Black Ring

- offered to protect your investment even further by putting the instrument into an extremely hard coating which adds more life to your Sontec Scissors
- Offered in either PC or TC/PC models



Metzenbaum Power Cut® Gold Scissors

Power Cut Gold (PC Gold) / 4 3/4" (12 cm)

1200-326 straight
1200-328 curved

Power Cut Gold (PC Gold) / 5" (12.5 cm)

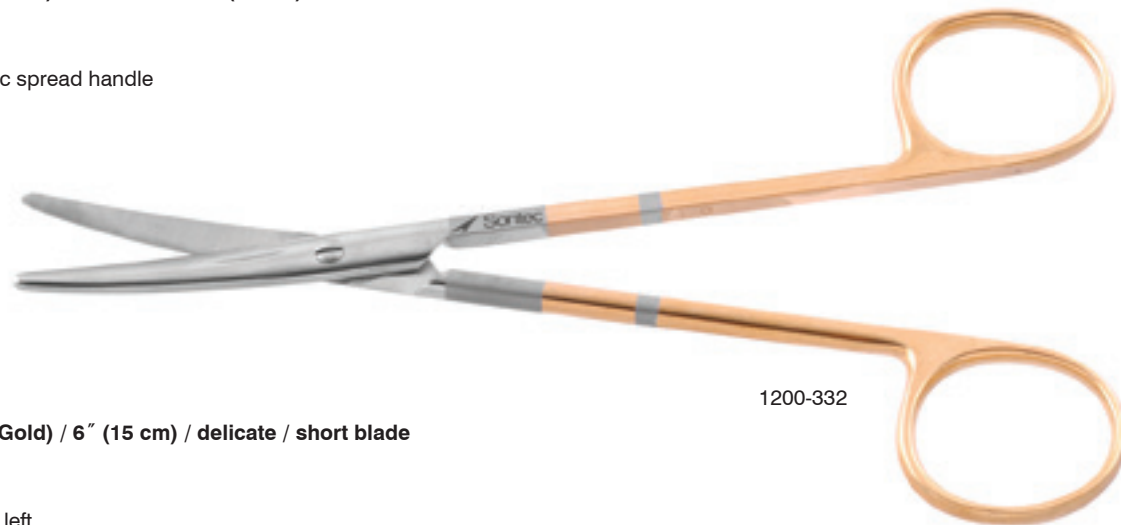
2400-286 straight
2400-287 curved

Power Cut Gold (PC Gold) / straight / 5 3/4" (15 cm)

1200-330
1200-334 delicate

Power Cut Gold (PC Gold) / curved / 5 3/4" (15 cm)

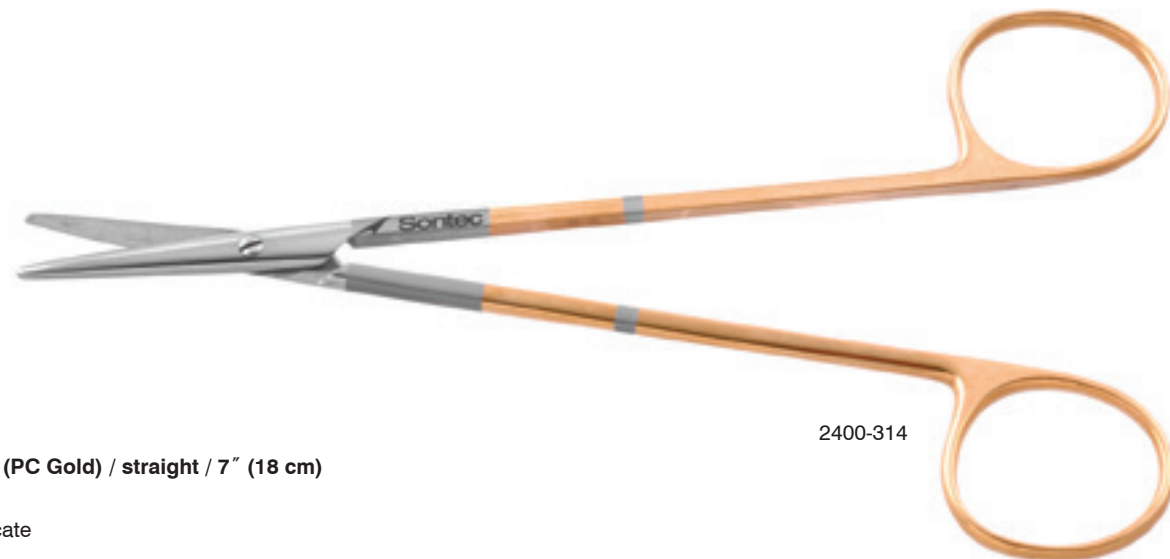
1200-332
1200-335 delicate
1200-347 ergonomic spread handle



1200-332

Power Cut Gold (PC Gold) / 6" (15 cm) / delicate / short blade

2400-314 straight
2400-315 curved
1200-330L straight left



2400-314

Power Cut Gold (PC Gold) / straight / 7" (18 cm)

1200-340
2400-316 delicate

Metzenbaum Power Cut® Gold Scissors

Power Cut Gold (PC Gold) / curved / 7" (18 cm)

1200-342
1200-342H heavy
1200-342L left handed
1200-344 ergonomic spread handle
2400-317 delicate
2400-330 2.5 mm tip

Power Cut Gold (PC Gold) / 8" (20.5 cm)

1200-360 straight
1200-362 curved
2400-318 straight delicate
2400-319 curved delicate



1200-344



1200-342

Metzenbaum Power Cut® Gold Long Model Scissors

Power Cut Gold (PC Gold) / 9" (23 cm)

2400-302	straight	
2400-304	curved	
2400-322	straight	delicate
2400-321	curved	delicate



2400-302

Power Cut Gold (PC Gold) / 10 1/4" (26 cm)

2400-306	straight	
2400-308	curved	
2400-309	straight	delicate
2400-323	curved	delicate



2400-308

Power Cut Gold (PC Gold) / curved /

2400-310	11" (28 cm)
2400-311	12" (30.5 cm)
1200-268	14" (35.5 cm)
1200-269	16" (40.5 cm)
1200-270	18" (45.5 cm)



2400-321

Metzenbaum Power Cut® Black Scissors

Power Cut Black (PC Black) / 4 1/2" (11.5 cm)

1200-775M	straight	baby
1200-776M	curved	baby

Power Cut Black (PC Black) / 5" (13 cm)

1200-780	straight	
1200-782	curved	
1200-750	straight	tenotomy tip
1200-752	curved	tenotomy tip

Power Cut Black (PC Black) / extra delicate / 5 1/4" (13.5 cm)

2400-812A	straight
2400-813A	curved

Power Cut Black (PC Black) / extra delicate / 5 5/8" (14 cm)

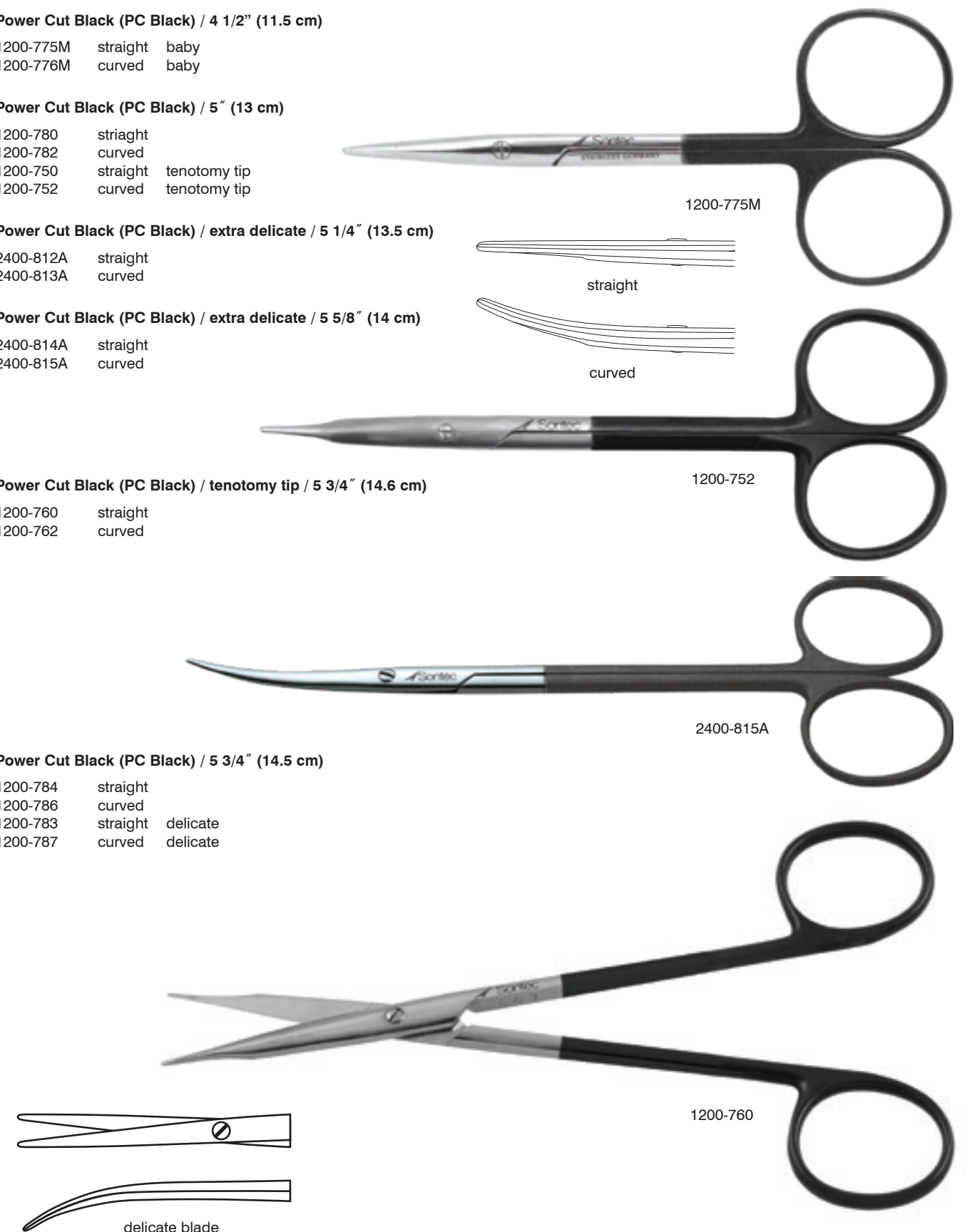
2400-814A	straight
2400-815A	curved

Power Cut Black (PC Black) / tenotomy tip / 5 3/4" (14.6 cm)

1200-760	straight
1200-762	curved

Power Cut Black (PC Black) / 5 3/4" (14.5 cm)

1200-784	straight	
1200-786	curved	
1200-783	straight	delicate
1200-787	curved	delicate



1200-775M

straight

curved

1200-752

2400-815A

1200-760

delicate blade

Metzenbaum Power Cut® Black Scissors

Power Cut Black (PC Black) / 6" (15 cm)

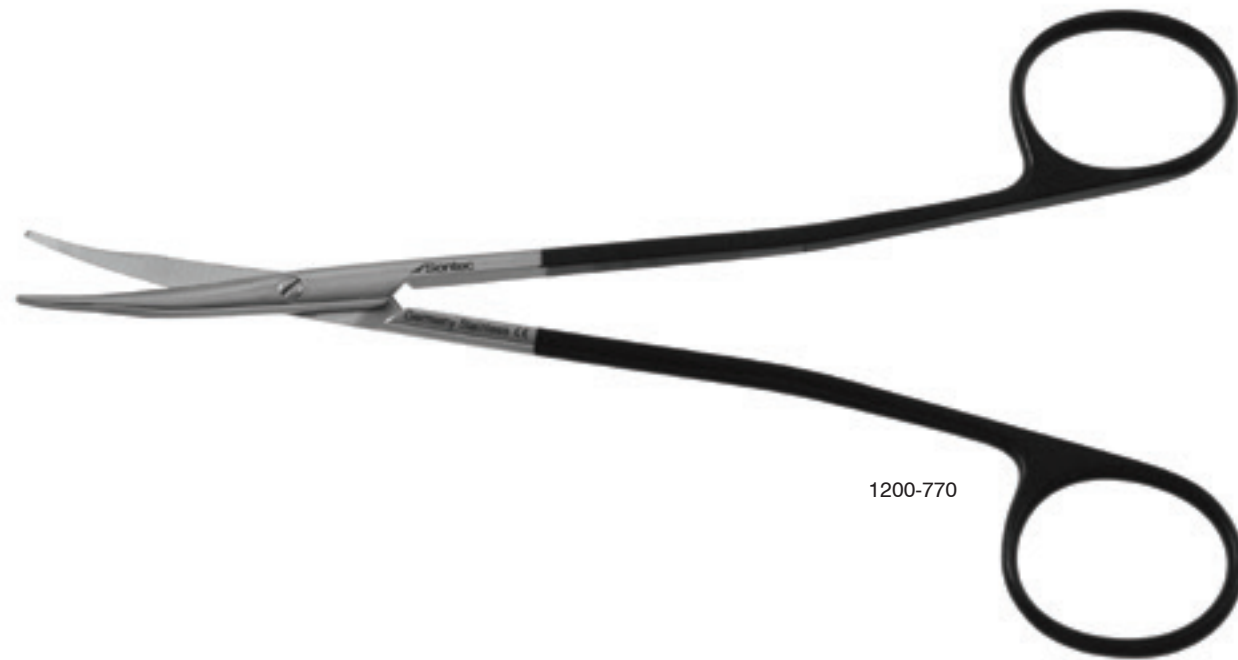
2400-790	straight	unique short blades
2400-792	curved	unique short blades
2400-816	straight	delicate
1200-770	curved	tenotomy tip ergonomic spread handle



delicate blade



2400-792



1200-770

Baby Metzenbaum Power Cut Black® Scissors

PC Black / 4 3/4" (12.1 cm)

2400-785	straight
2400-787	curved



2400-787

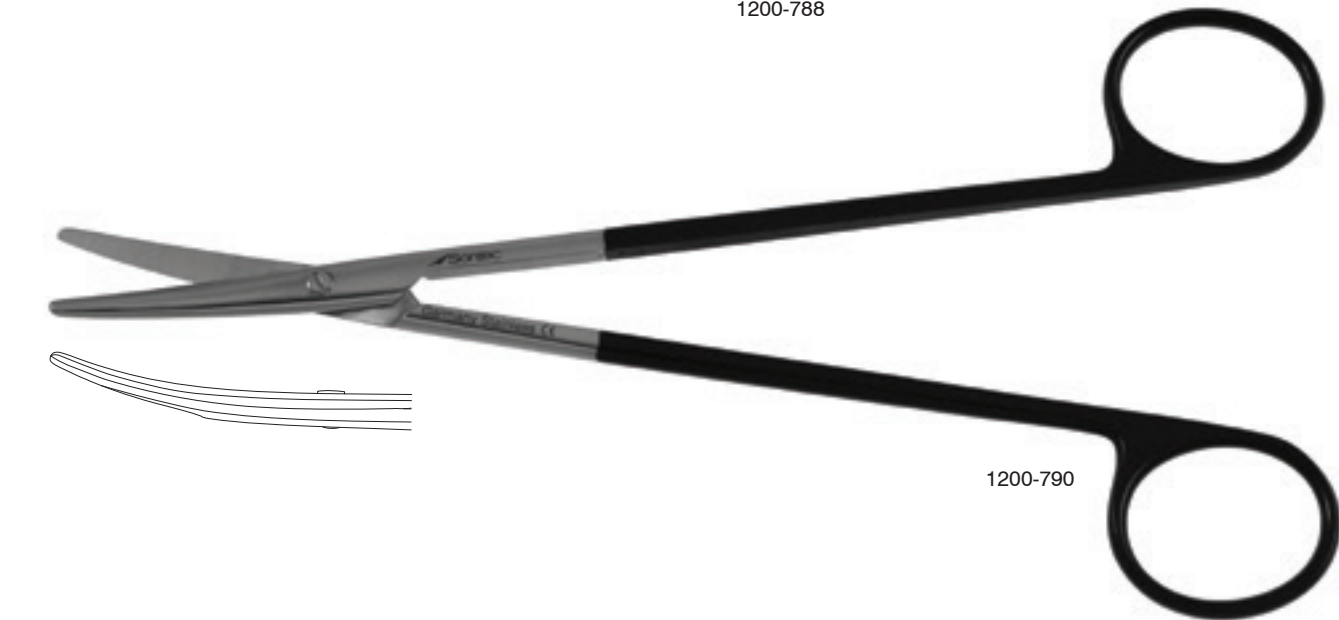
Metzenbaum Power Cut® Black Scissors

Power Cut Black (PC Black) / 7" (18 cm)

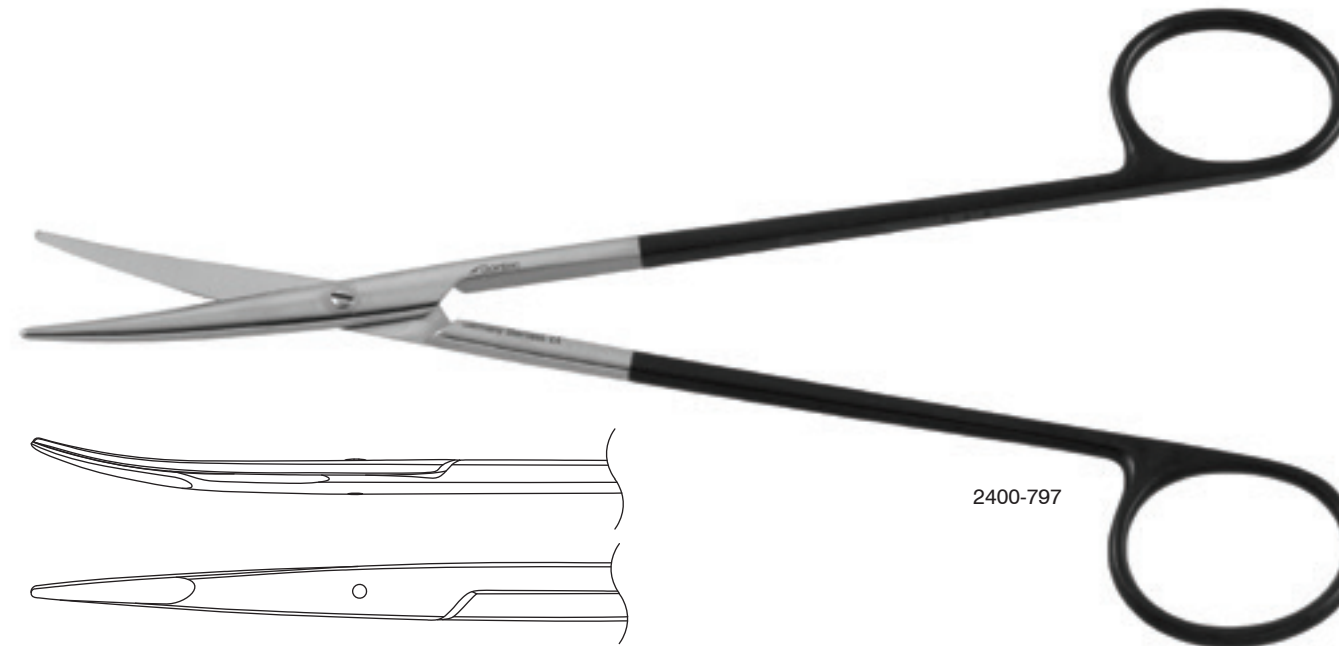
1200-788	straight	
1200-790	curved	
2400-797	curved	2.5mm tip



1200-788



1200-790

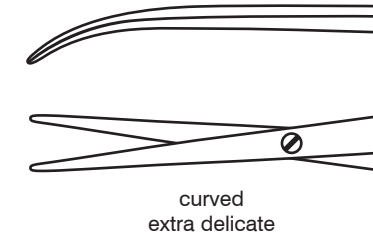


2400-797

Metzenbaum Power Cut® Black Scissors

Power Cut Black (PC Black) / 8" (20.5 cm)

2400-798	straight	
2400-800	curved	
2400-801	curved	tenotomy tip
2400-820	straight	delicate
2400-819	curved	delicate



2400-801

Power Cut Black (PC Black) / 9" (23 cm)

2400-802	straight	
2400-804	curved	
2400-822	straight	delicate
2400-821	curved	delicate



2400-821

Power Cut Black (PC Black) / 10 1/4" (26 cm)

2400-806	straight	
2400-808	curved	
2400-807	straight	delicate
2400-809	curved	delicate

Power Cut Black (PC Black) / 11" (28 cm)

2400-803	straight	
2400-805	curved	

Power Cut Black (PC Black) / curved / 12" (30.5 cm)

2400-811	
----------	--

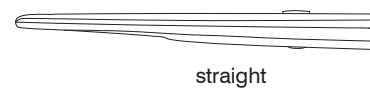


2400-808

Metzenbaum Tungsten Carbide Power Cut® Gold/Black Scissors

Strabismus / tungsten Carbide /Power Cut (TC/PC) / 4 1/2" (11.5 cm)

1200-500	straight
1200-501	curved



straight

Tungsten Carbide /Power Cut (TC/PC) / Serrated / 5 3/4" (14.5 cm)

1200-505	straight	
1200-510	curved	
1200-507	straight	delicate
1200-512	curved	delicate
1200-514	curved	ergonomic spread handle



curved



1200-505



1200-514

Tungsten Carbide /Power Cut (TC/PC) / 7" (18 cm)

1200-515	straight	
1200-520	curved	
1200-526	curved	ergonomic spread handle
1200-526S	curved	ergonomic spread handle sharp tips
2400-247	curved	delicate

Tungsten Carbide /Power Cut (TC/PC) / 8" (20.5 cm)

1200-530	straight	
1200-529	curved	
1200-531	curved	ergonomic spread handle
2400-248	curved	delicate



1200-529

Tungsten Carbide /Power Cut (TC/PC) / 9" (23 cm)

1200-535	straight	
1200-536	curved	
2400-259	curved	delicate

Tungsten Carbide /Power Cut (TC/PC) / 10" (25.5 cm)

1200-537	straight	
1200-538	curved	
2400-281	curved	delicate

Metzenbaum Ceramitec Power Cut® Scissors

Special / ceramic coated scissors / with Power Cut blades / black with gold screw / curved

1200-911		5 3/4" (15 cm)
1200-912		5 3/4" (15 cm)
1200-915		7" (18 cm)
1200-916	delicate	7" (18 cm)



1200-911

* Titanium Nitrate Coating is a very hard coating that keeps scissors sharper longer, reduces friction and adds a layer of corrosion protection



1200-915



1200-916

Metzenbaum-Toennis Power Cut® Black Scissors

PC black / extra delicate / 7" (18 cm)

2400-841 curved



Stussak Metzenbaum Power Cut® Gold Scissors

Strong curve / blunt / 7" (17.8 cm)

1100-235 classic
508-617 PC



Mayo-Lexer Fino Classic Tungsten Carbide Power Cut® Gold Scissors

Very delicate / round blades / TC / 6 1/2" (16.5 cm)

2400-222 straight
2400-223 curved

Very delicate / round blades / PC gold / 6 1/2" (16.5 cm)

2400-226 straight
2400-227 curved



Mayo-Lexer, Classic, Power Cut Gold, Power Cut Black®, TC/PC Power Cut®, Scissors

Round more delicate finer shaped blades / straight / 6 1/2" (16.5 cm)

110-280 classic
1200-543 TC/PC
1200-733 PC black
2400-227 PC gold

Round more delicate finer shaped blades / curved / 6 1/2" (16.5 cm)

110-281 classic
1200-548 TC/PC
1200-735 PC black
2400-226 PC gold

TC / curved / 8 1/4" (21 cm)

2400-225



Mayo-Carroll Scissors

Extra heavy design / TC / 9" (23 cm)

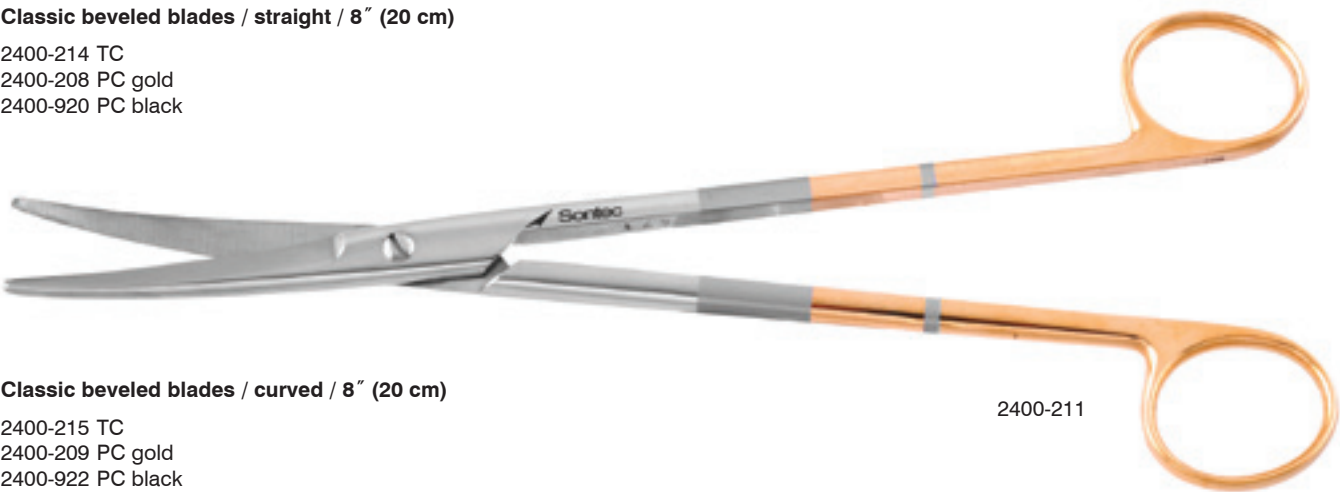
1100-276 straight
1100-282 curved



Mayo-Harrington Scissors

Classic beveled blades / straight / 8" (20 cm)

2400-214 TC
2400-208 PC gold
2400-920 PC black



2400-211

Classic beveled blades / curved / 8" (20 cm)

2400-215 TC
2400-209 PC gold
2400-922 PC black

Classic beveled blades / straight / 9" (23 cm)

2400-216 TC
2400-210 PC gold
2400-924 PC black

Classic beveled blades / curved / 9" (23 cm)

2400-217 TC
2400-211 PC gold
2400-926 PC black



2400-214

Classic beveled blades / curved / 11" (30 cm)

2400-218 TC
2400-213 PC gold
2400-928 PC black

Classic beveled blades / curved / PC Gold / 12" (30.5 cm)

1200-259

Classic beveled blades / curved / TC / 16" (40.5 cm)

2400-212

Westcott Wide Handle Tenotomy Scissors

Wide handle / curved / classic blades / 5 1/2" (14 cm)

13-3307 sharp
13-3306 blunt
13-3307S blunt serrated blades



13-3306



13-3307

Westcott Tenotomy Scissors

Blunt / 4 1/2" (11.5 cm)

13-3400 curved
13-3401 straight

Blunt / standard blade / heavier / curved / 5" (12.7 cm)

13-3402 curved



13-3400



13-3401



13-3402

Westcott Stitch Scissors

Sharp tips / classic blades / 4 1/2" (11.5 cm)

13-4400 curved
13-4402 straight



13-4400



13-4402

Titanium Westcott Tenotomy Scissors

Blunt tip / fenestrated handle / 4 1/2" (11.5 cm)

T13-3417 curved
T13-3418 straight



T13-3417

Stevens Tenotomy Classic PC Gold Scissors

Pointed sharp tips / short blades / classic / 4 1/8" (10.5 cm)

13-8805 straight
13-8815 curved

Pointed sharp tips / long blades / classic / 4 1/2" (11.5 cm)

13-8820 straight
13-8825 curved



13-8825

Pointed sharp tips / long blades / PC Gold / 4 1/2" (11.5 cm)

13-8865 straight
13-8866 curved

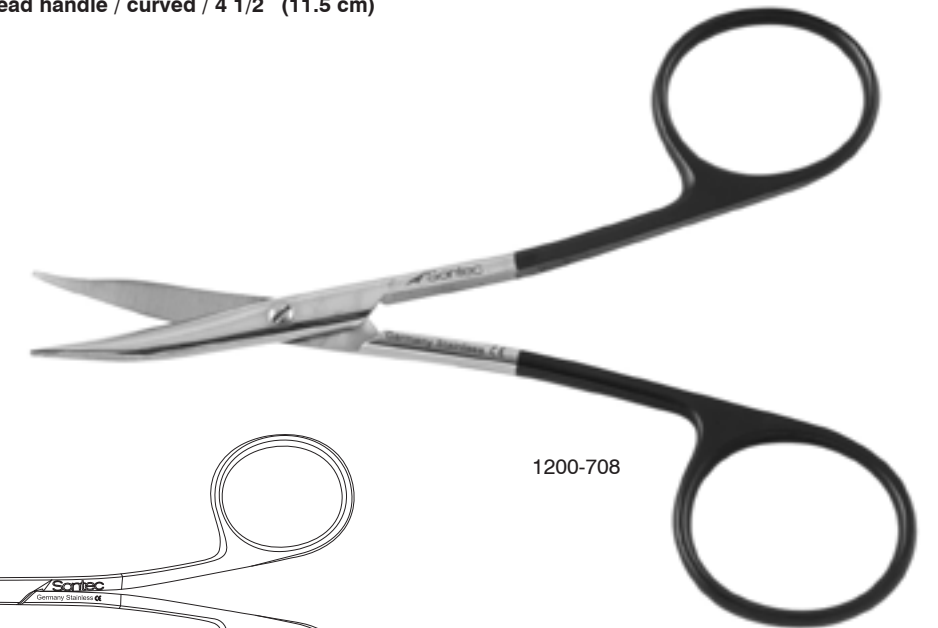
Stevens Tenotomy Ergonomic Spread Handle Power Cut Black® Scissors

Blunt / long tip / PC black / ergonomic spread handle / curved / 4 1/2" (11.5 cm)

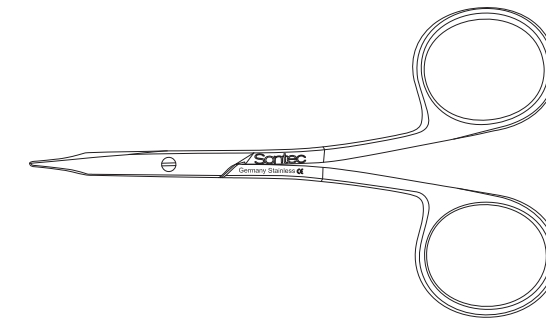
1200-708



tenotomy tip



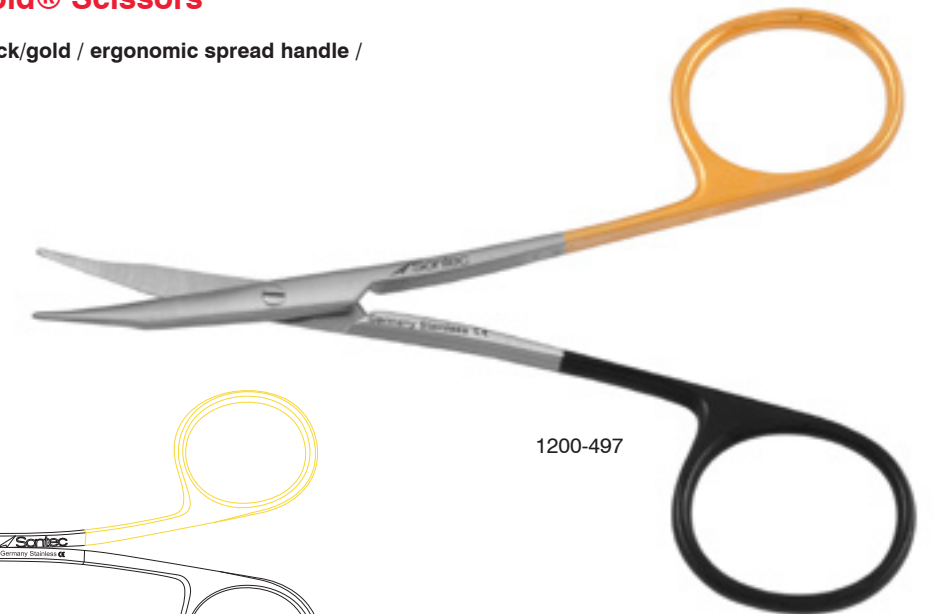
1200-708



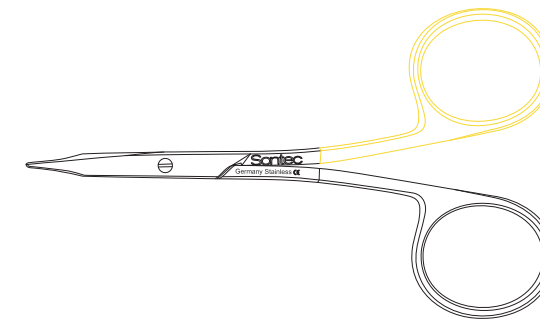
Stevens Tenotomy Ergonomic Spread Handle Tungsten Carbide Power Cut Black/Gold® Scissors

Blunt / long tip / tungsten carbide / PC black/gold / ergonomic spread handle / curved / 4 1/2" (11.5 cm)

1200-497



1200-497



Stevens Tenotomy , Tungsten Carbide, Power Cut Gold, Power Cut Black®, Ceramic Coated Scissors

Blunt / long blades / with TC/PC curved blades
/ ceramitec / with gold screw and
gold shiny rings / spread handle / 4 1/2" (11 cm)

1200-937



1200-937

Ceramitec Stevens Tenotomy Ergonomic Spread Handle Power Cut Black® Scissors

Black with gold screw / blunt / long tip / PC Black / ergonomic spread
handle / curved / 4 1/2" (11.5 cm)

1200-935



1200-935

Stevens Siegert Tenotomy Scissors Double Beveled Blades

Saberback / black ceramitec coated
/ with gold screw / blunt long blades
/ curved / 4 1/2" (11.5 cm)

1200-985 black ceramitec

1200-986

Double beveled blades / TCPC / 4 1/2" (11.5 cm)

2400-365 straight

2400-367 curved pointed tips



1200-985



1200-986



2400-367

Stevens Tenotomy Classic, Tungsten Carbide, Power Cut Gold®, Power Cut Black®, Ceramitec Scissors

Blunt / long blades / straight / 4 1/2" (11.5 cm)

13-8813	classic
1200-062	PC gold
1200-704	PC black

Blunt / long blades / curved / 4 1/2" (11.5 cm)

13-8814	classic
1200-064	PC gold
1200-706	PC black
1200-499	TCPC

Blunt / long blades / curved / ceramitec / with gold screw / 4 1/2" (11.5 cm)

1200-930	PC
----------	----

Pointed sharp blades / long blades / 4 1/2" (11.5 cm)

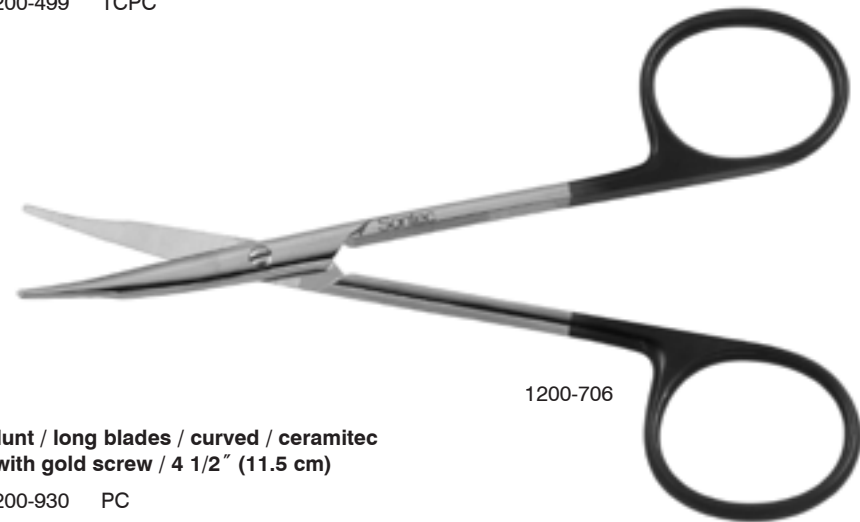
1200-490	TC/PC	straight
----------	-------	----------

Pointed sharp blades / long blades / curved / 4 1/2" (11.5 cm)

1200-491	TC/PC	curved
----------	-------	--------



1200-064



1200-706



1200-499



1200-490

1200-491

MICRO SERRATIONS ON ANY SCISSOR WITH REASONABLE SIZE, PLEASE INQUIRE

Strabismus Classic Tungsten Carbide Power Cut Gold®, Power Cut Black® Scissors

Delicate / PC gold / 4 1/4" (11 cm)

1200-021	straight
1200-023	curved

Classic / 4 1/2" (11.5 cm)

1100-344	straight
1100-346	curved

PC gold / 4 1/2" (11.5 cm)

1200-020	straight
1200-022	curved

PC black / 4 1/2" (11.5 cm)

1200-775	straight
1200-776	curved

PC black / sharp/sharp tips / curved / 4 1/2" (11.5 cm)

1200-776S

TC / 4 1/2" (11.5 cm)

2400-360	straight
2400-362	curved



1200-020

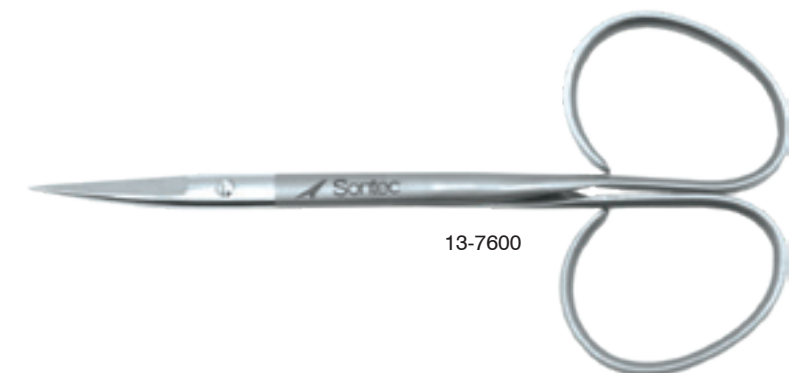


1200-776S

Ribbon-Handle Classic Iris Scissors

Classic blades / 4" (10 cm)

13-7600	straight
13-7610	curved



13-7600

**Iris Classic Tungsten Carbide Power Cut Gold®
Power Cut Black® TC/PC Scissors**

Delicate / mini model / 3 1/2" (9 cm)

13-7500 straight
13-7510 curved

**Ribbon handle / mini pattern / classic
/ 14 mm blades / 3 3/4" (9.5 cm)**

13-7720 straight
13-7730 curved

PC gold / sharp tips / 4" (10 cm)

2400-010 straight
2400-012 curved

PC gold / blunt / 4" (10 cm)

2400-015 straight
2400-017 curved

PC black / sharp tips / 4" (10 cm)

2400-710 straight
2400-712 curved

Classic / 4 1/8" (10.2 cm)

13-7528 straight
13-7530 curved

Classic / delicate / 4 1/8" (10.2 cm)

13-7524 straight
13-7526 curved

PC gold / 4 1/8" (10.2 cm)

13-7532 straight
13-7533 curved

PC gold / delicate / 4 1/8" (10.2 cm)

13-7520 straight
13-7522 curved



Iris Scissors

Classic / 4 1/2" (11.5 cm)

13-7700 straight
13-7710 curved
13-7620 curved sideways
13-7715 angled sideways

PC gold / 4 1/2" (11.5 cm)

1200-025 angled sideways
1200-026 straight
1200-028 curved

**PC black / sharp tips / 4
1/2" (11.4 cm)**

2400-711 straight
2400-713 curved

PC black / blunt / 4" (10 cm)

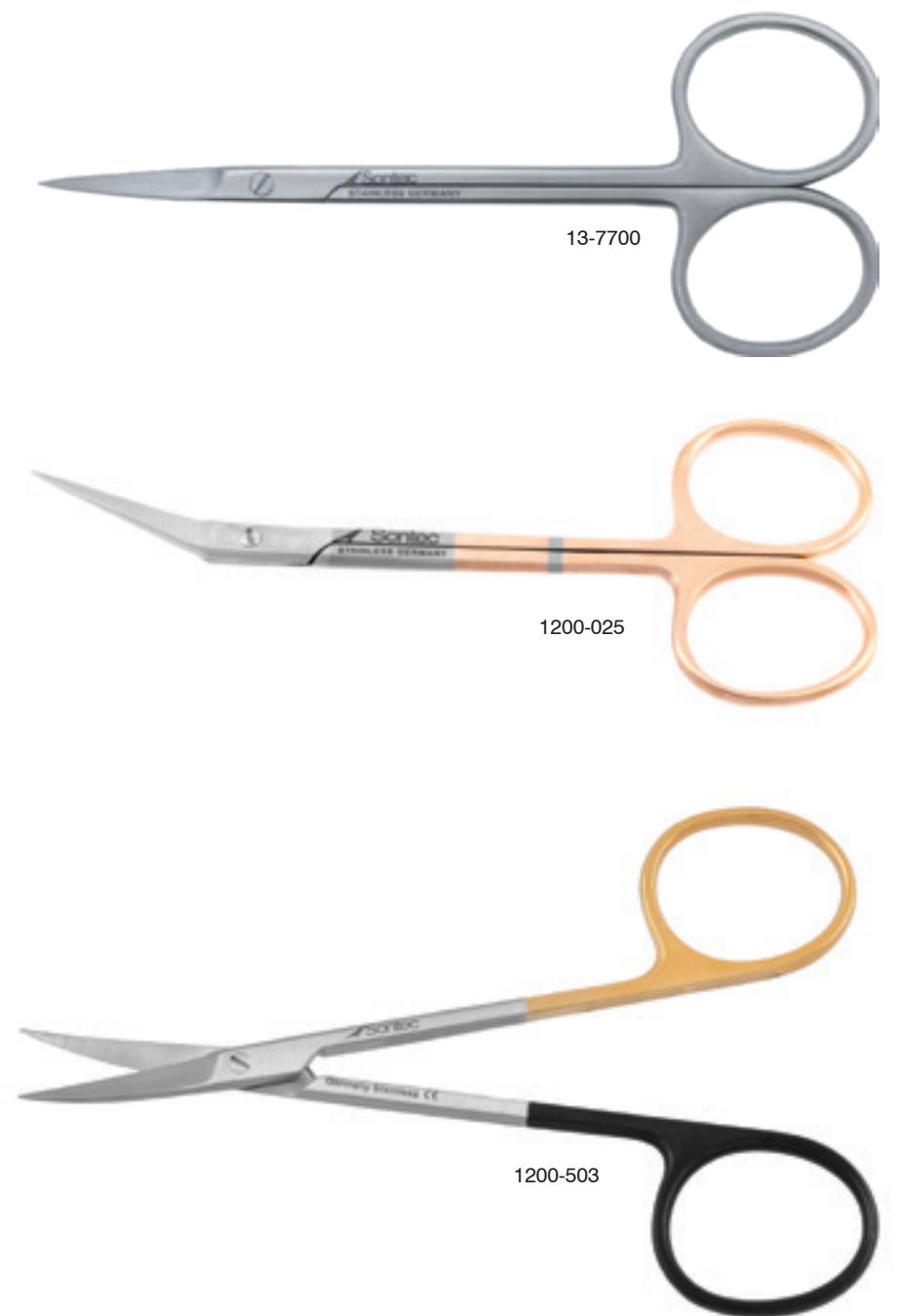
2400-715 straight
2400-717 curved

TC / 4 1/2" (11.5 cm)

112-480 straight
112-478 curved

TC/PC / 4 1/2" (11.5 cm)

1200-502 straight
1200-503 curved



Iris Stille Classic Large Cut Out Rings Scissors

Curved / 4" (10.2 cm)

13-7786



13-7786

Iris Stille Classic Large Rings Scissors

Large ring / Classic / 4" (10 cm)

13-7740 straight
13-7750 curved

Large ring / PC black / 4" (10 cm)

1200-764 straight
1200-766 curved

Large ring / PC gold / 4" (10 cm)

1200-011 straight
1200-011C curved



1200-766



1200-764

Enucleation Scissors

PC Gold / 5 1/4" (13 cm)

13-9805 light curve
13-9810 medium curve
13-9820 full curve
13-9822 full curve PC Black



13-9820



13-9822



light curve



medium curve

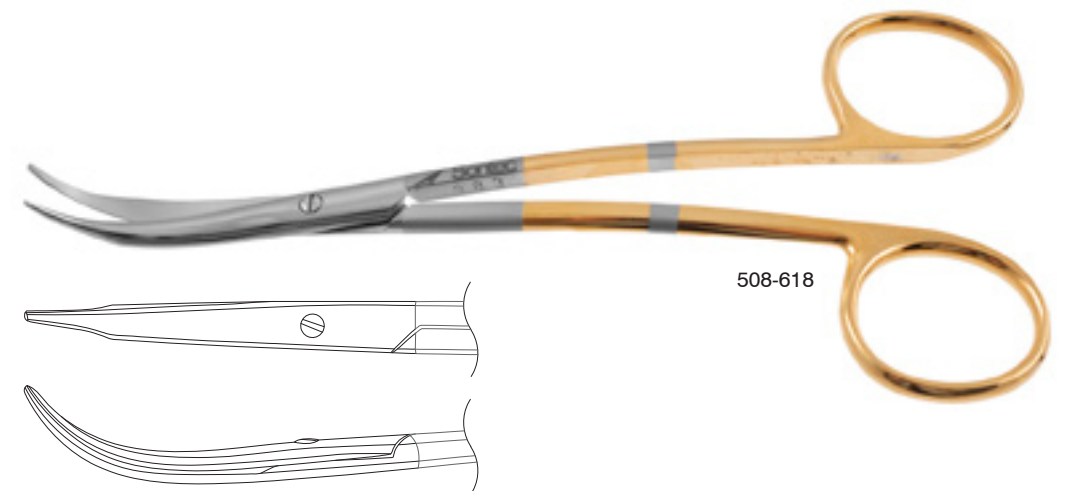


full curve

Baby Stratte Scissors

PC Gold / full s-curved / 5 1/2" (14 cm)

508-616 metzenbaum tip
508-618 tenotomy tip



508-618

Kilner Power Cut Black® Scissors

PC black / sharp/sharp / 6 1/4" (16 cm)

2400-888 straight
2400-889 curved

PC black / 6 1/4" (16 cm)

2400-890 straight
2400-891 curved



2400-888

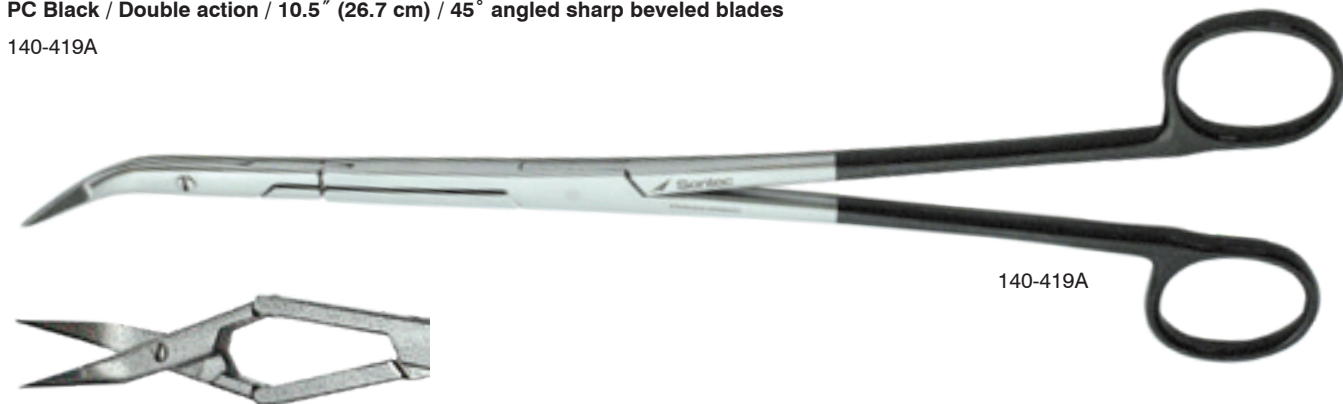


2400-891

Converse-Papillary Muscle Power Cut Black® Double Articulating Scissors

PC Black / Double action / 10.5" (26.7 cm) / 45° angled sharp beveled blades

140-419A



140-419A

Lillehei-Potts Power Cut Black® Scissors

PC black / curved / 6 3/4" (17.1 cm)

2400-870 tenotomy tips
2400-871 sharp tips
2400-872 blunt tips

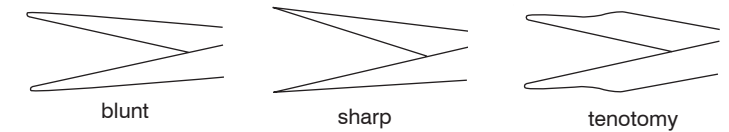


2400-870

Lillehei-Potts Extra Long Power Cut Black® Scissors

PC black / curved / 9" (23cm)

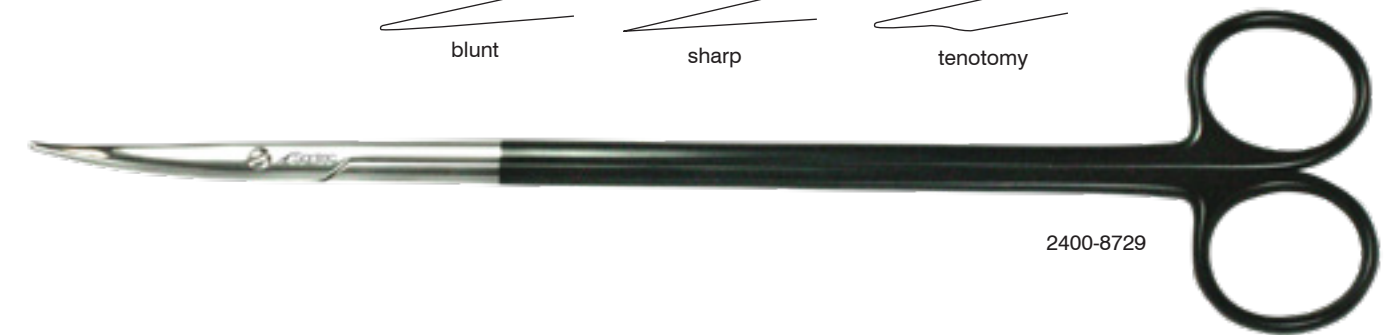
2400-8709 tenotomy tips
2400-8719 sharp tips
2400-8729 blunt tips



blunt

sharp

tenotomy



2400-8729

Favaloro Power Cut Black® Power Cut Gold® Scissors

Classic / 6 3/4" (17 cm)

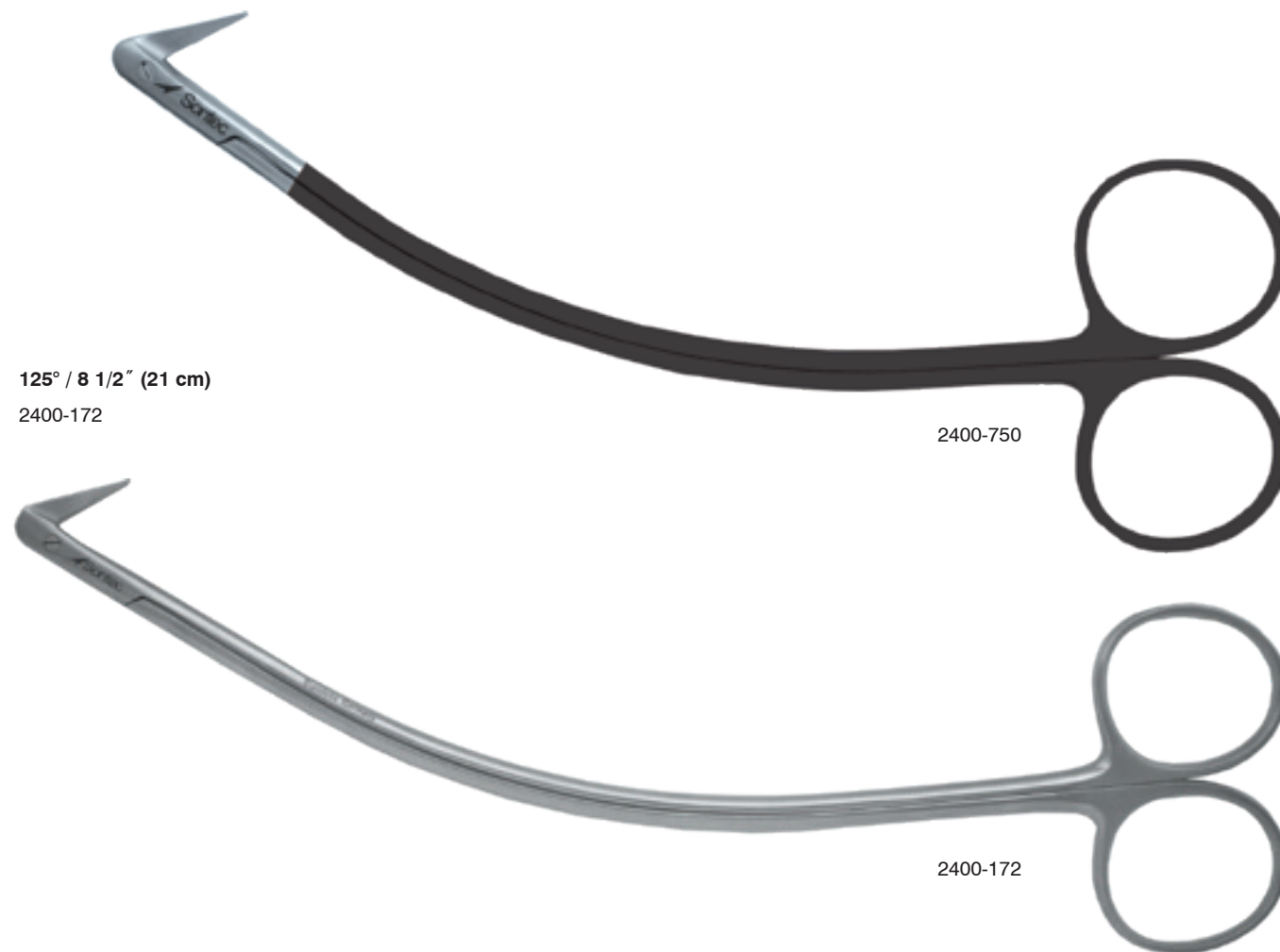
2400-157	25°
2400-159	45°
2400-161	60°
2400-163	90°
2400-155	125°

PC Gold / 125° / 6 3/4" (17 cm)

2400-165	
2400-166	fine blades

PC Black / 125° / 6 3/4" (17 cm)

2400-750	
2400-752	fine blades



125° / 8 1/2" (21 cm)

2400-172

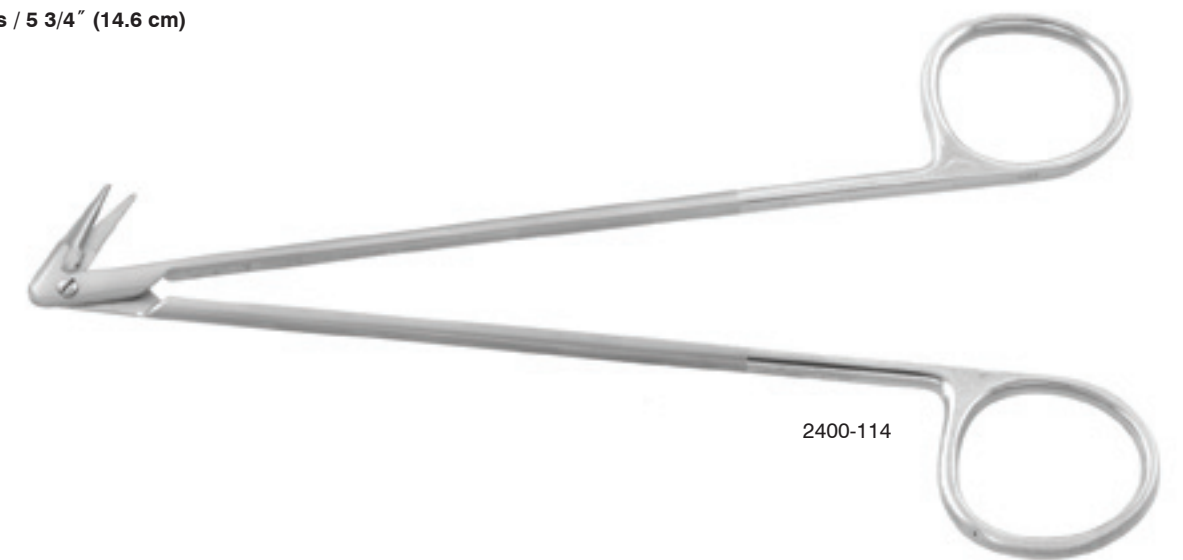
2400-750

2400-172

Howell-Potts Power Cut Silver® Scissors

125° tenotomy tips / 5 3/4" (14.6 cm)

2400-114

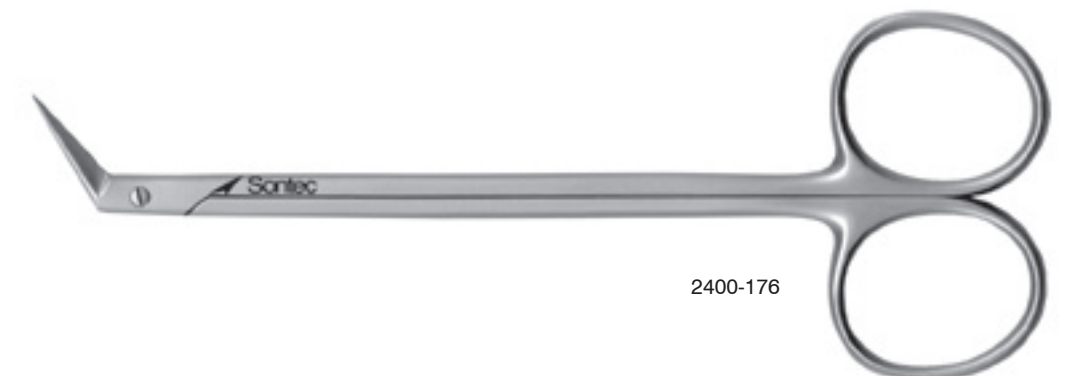


2400-114

Hegemann Classic Scissors

Classic / 5 1/2" (14 cm)

2400-175	25°
2400-176	45°
2400-177	60°
2400-178	90°



2400-176

Dietrich Classic Scissors

7 1/8" (18.25 CM)

2400-115	25°
2400-119	45°
2400-123	60°
2400-127	90°
2400-131	125°

Angled / Fine Blades / 7 1/8" (18.25 cm)

2400-117	25°
2400-121	45°
2400-125	60°
2400-129	90°
2400-135	125°



2400-121

Angled fine blades / 8 1/2" (21.5 cm)

2400-116	25°
2400-120	45°
2400-124	60°
2400-130	90°
2400-136	125°



2400-136

Dietrich Circumflex Classic Stabilizer Scissors

Micro fine blades / 125° / with stabilizer bar to keep blades aligned / 7" (18 cm)

2400-133



2400-133

Dietrich-Potts-Kurz Power Cut Black® Scissors

10 mm short micro fine blades / PC Black / 5 1/2" (14 cm)

2400-7410	straight
2400-7411	25°
2400-7412	45°
2400-7413	60°
2400-7414	90°
2400-7415	125°

Fine regular blades / PC Black / 5" (12.7 cm)

2400-7401	25°
2400-7402	45°
2400-7403	60°
2400-7404	90°
2400-7405	125°



2400-7413



straight

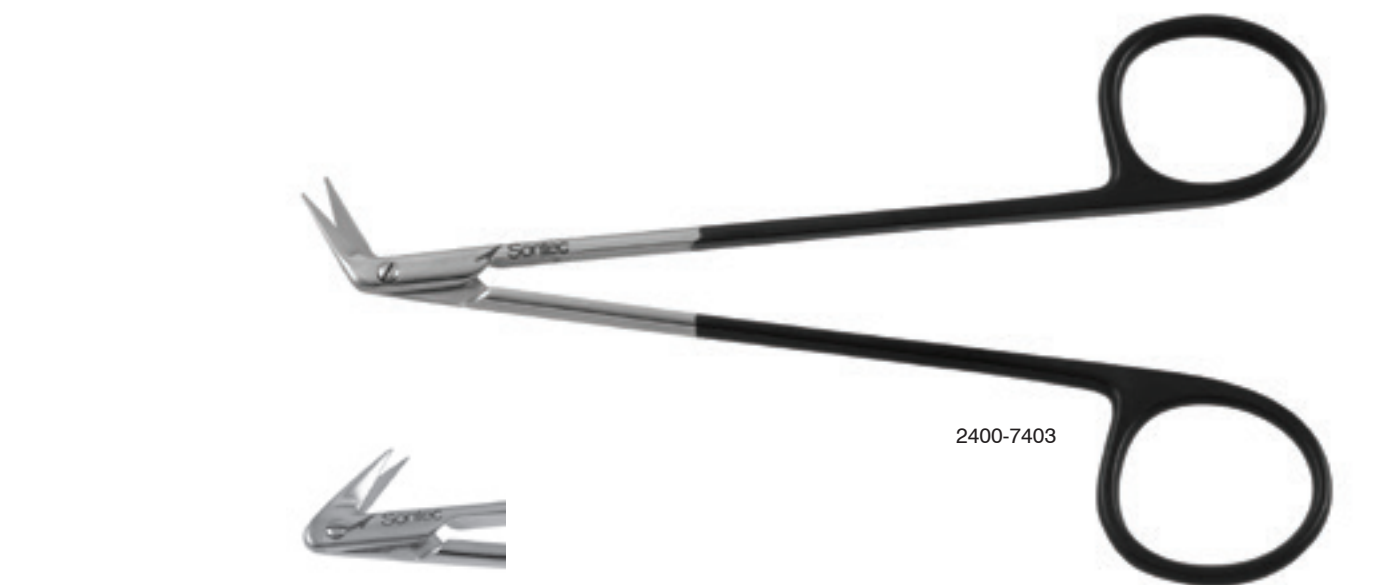
25°

45°

60°

90°

125°



2400-7403

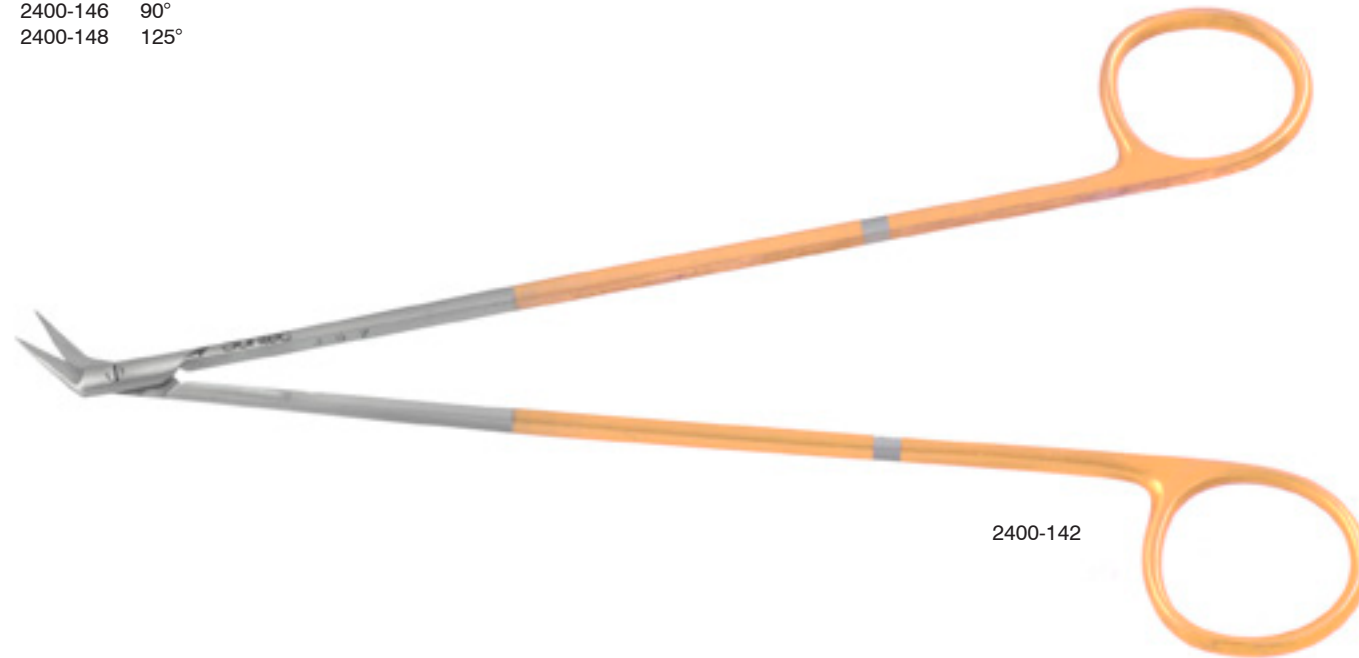


2400-7405

Dietrich Power Cut Gold® Scissors

PC Gold / micro fine blades / 7" (18 cm)

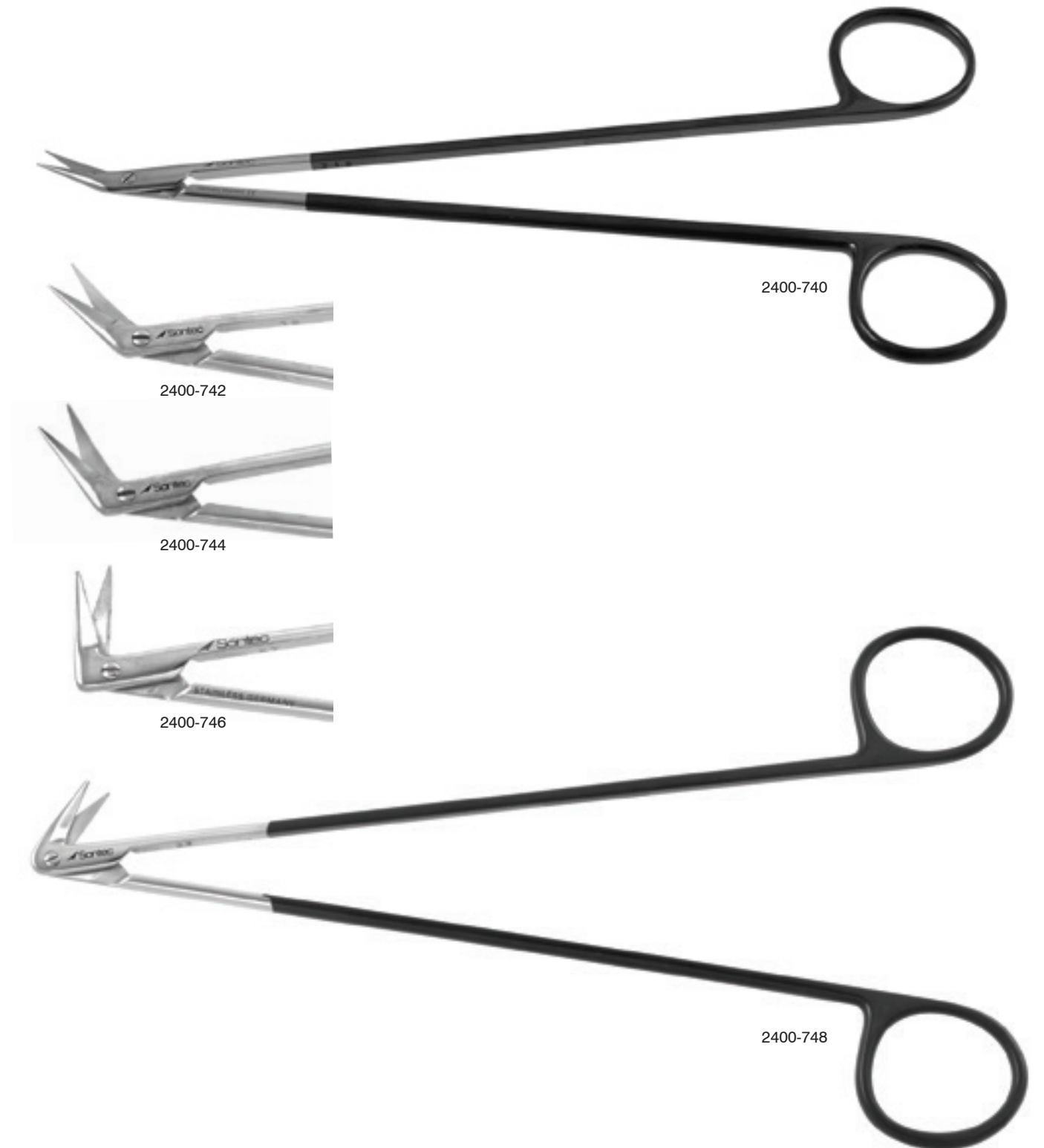
2400-140	25°
2400-142	45°
2400-144	60°
2400-146	90°
2400-148	125°



Dietrich-Potts Power Cut Black® Scissors

Fine regular blades / PC Black / 7" (18 cm)

2400-740	25°
2400-742	45°
2400-744	60°
2400-746	90°
2400-748	125°



Dietrich-Reul Power Cut Black® Scissors

Long thin micro blades / PC Black / 7" (18 cm)

2400-740A 25°
2400-742A 45°
2400-744A 60°
2400-746A 90°
2400-748A 125°



Dietrich Power Cut Black® Scissors

Short micro fine blades / PC Black / 7" (18 cm)

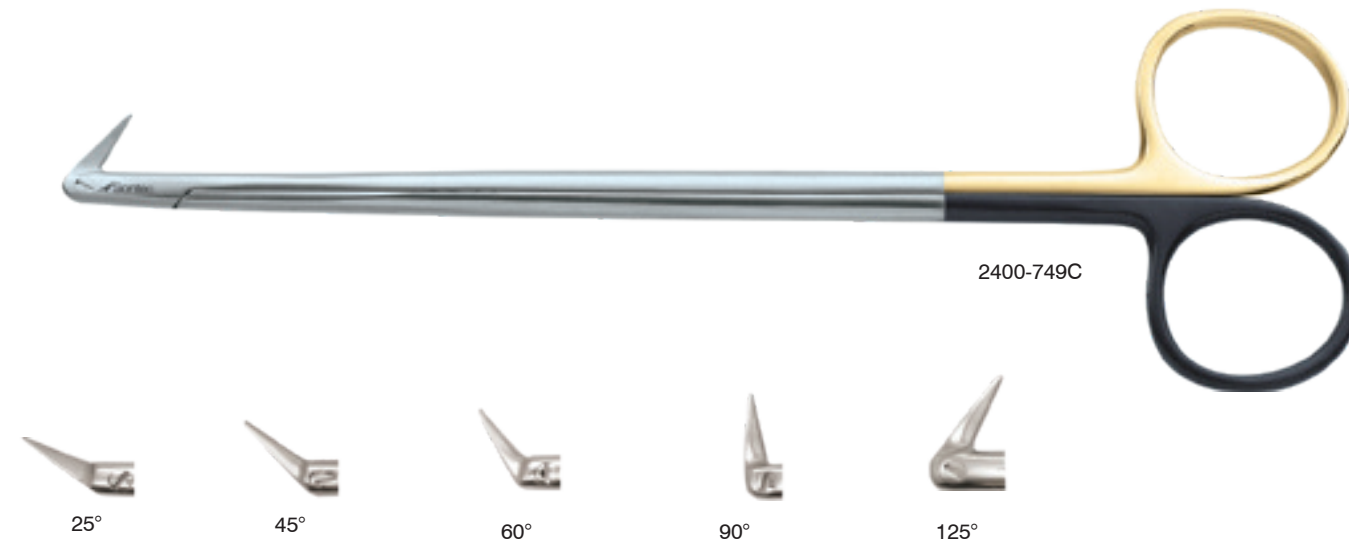
2400-740L straight
2400-741L 25°
2400-743L 45°
2400-745L 60°
2400-747L 90°
2400-749L 125°



Dietrich TC/PC Power Cut® Scissors

Short micro fine blades / TC/PC / 7" (18 cm)

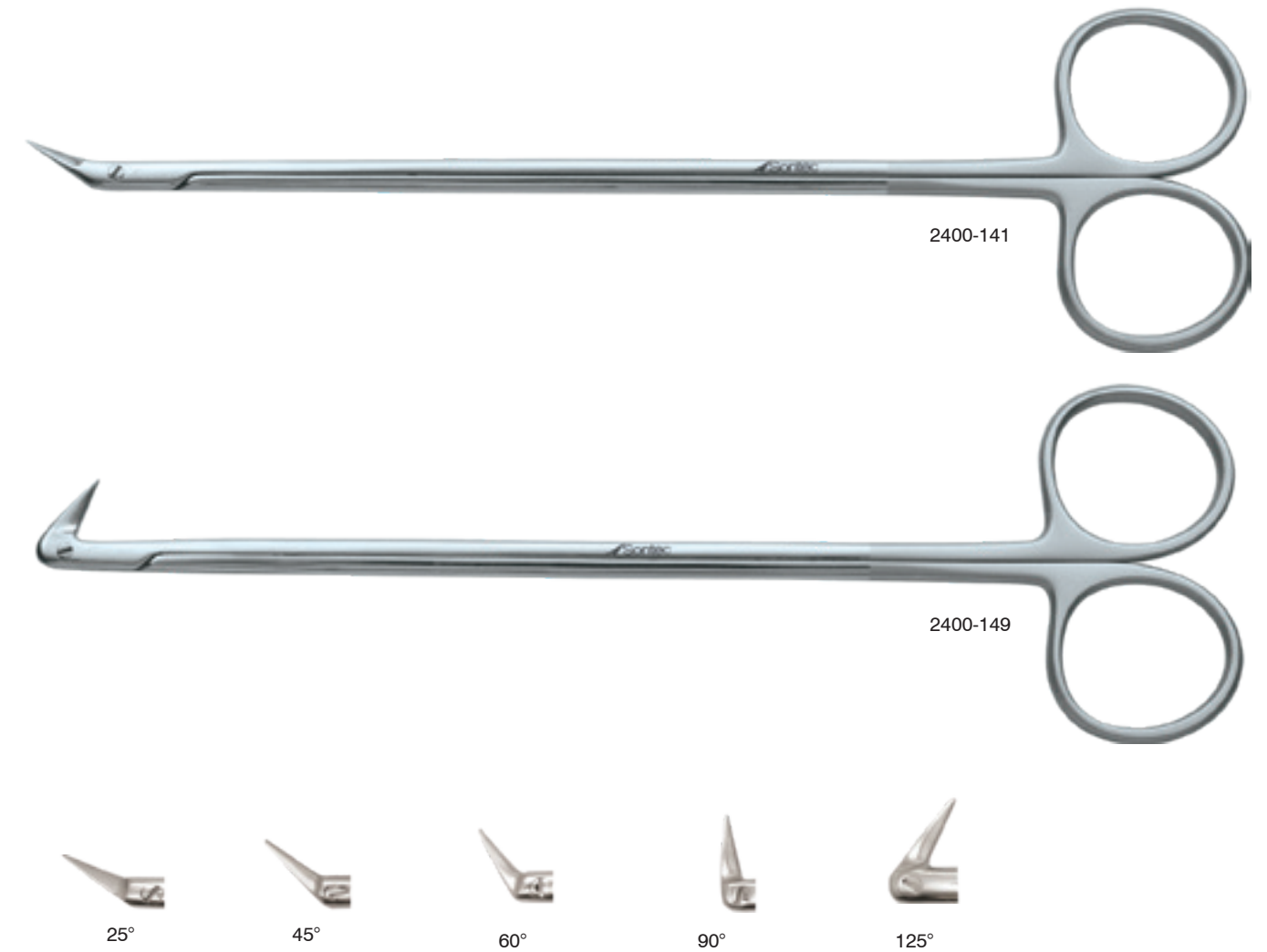
2400-741C	25°
2400-743C	45°
2400-745C	60°
2400-747C	90°
2400-749C	125°



Dietrich Power Cut Silver® Scissors

Short Fine Blades / silver model / PC / 7" (18 cm)

2400-141	25°
2400-143	45°
2400-145	60°
2400-147	90°
2400-149	125°



DeMartel Power Cut Black® Scissors

PC Black / blunt tip / 7" (18 cm)

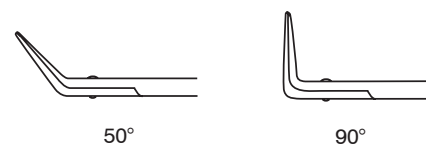
2400-765 90°
2400-761 50°

PC Black / sharp tip / 7" (18 cm)

2400-767 90°
2400-763 50°



2400-765



50°

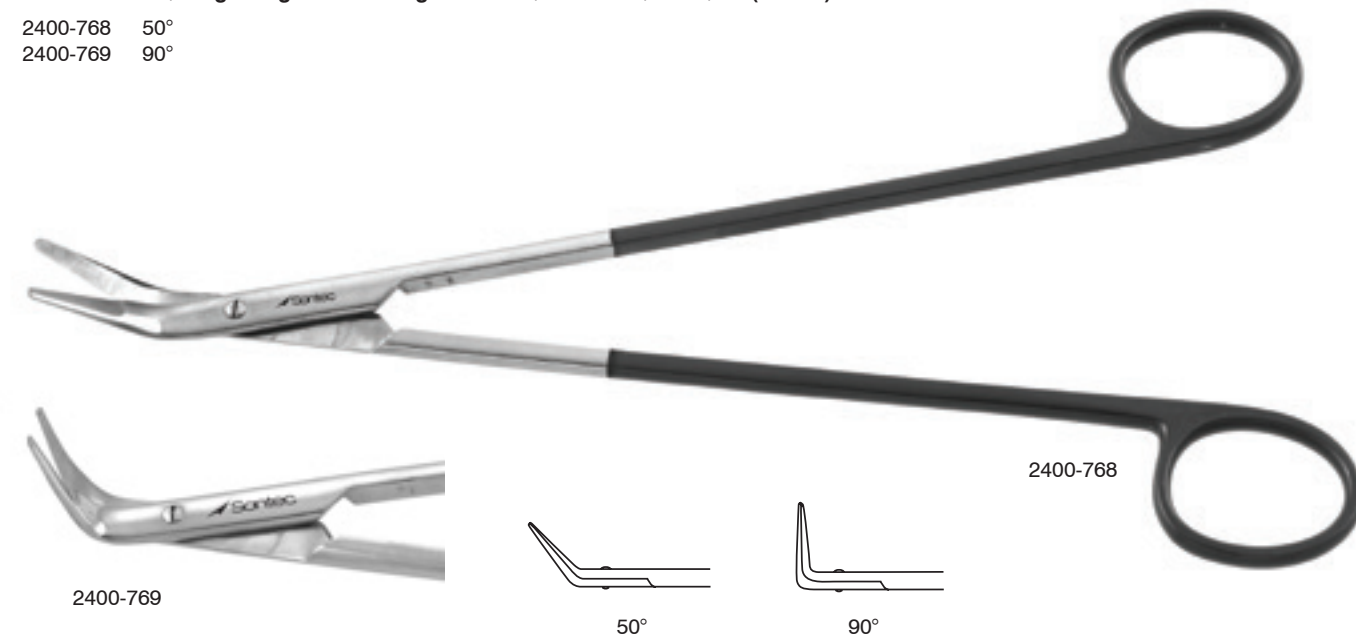
90°

2400-761

Stefan DeMartel Extra Long Shank Power Cut Black® Scissors

22 mm blades / long straight blades angled on flat / PC black / blunt/ 9" (23 cm)

2400-768 50°
2400-769 90°



2400-768



2400-769



50°

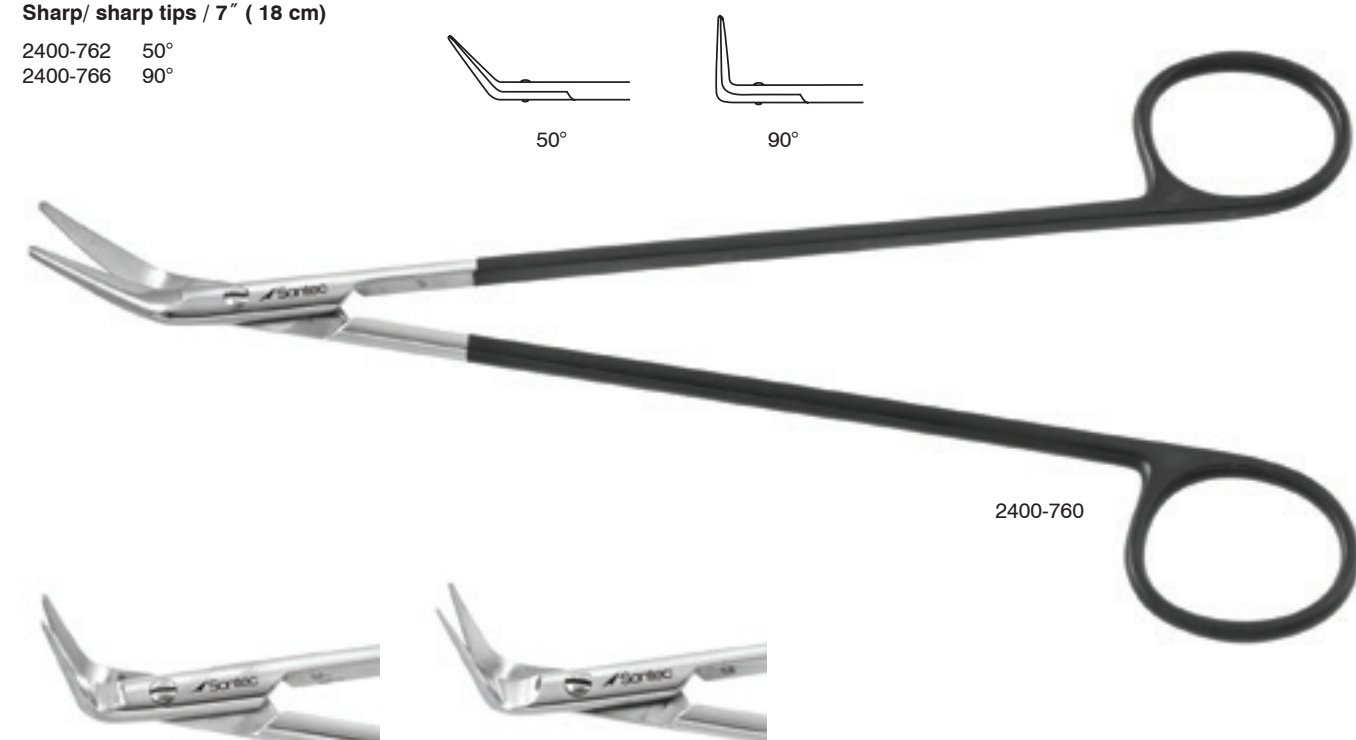
90°

22 mm blades / long straight blades angled on flat / PC black / blunt/ 7" (18 cm)

2400-760 50°
2400-764 90° blunt

Sharp/ sharp tips / 7" (18 cm)

2400-762 50°
2400-766 90°



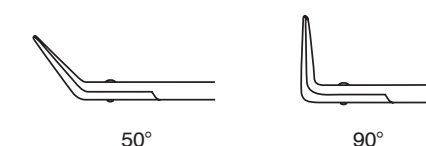
2400-760



2400-764



2400-766



50°

90°

C.V.H. Power Cut Black® Scissors

PC Black / 6" (15 cm)

2400-730	straight
2400-731	curved



2400-730

Dissecting Power Cut Silver® Scissors

Curved / 5 3/4" (14.5 cm)

2400-001	blunt tip
2400-002	sharp tip
2400-005	tenotomy tip



2400-005

Potts Artery Power Cut Black® Scissors

TC / 7 1/4" (18.5 cm)

2400-455	25°
2400-456	45°
2400-457	60°

PC black / 7 1/4" (18.5 cm)

2400-452	25°
2400-453	45°
2400-454	60°



2400-453

DeBakey Scissors

TC / 6 3/4" (17 cm)

2400-074	25°
2400-076	45°
2400-078	60°



2400-074

TC / 9" (23 cm)

2400-080	25°
2400-082	45°
2400-084	60°

TC / 11" (28 cm)

2400-086	25°
2400-088	45°
2400-090	60°

PC gold / 6 3/4" (17 cm)

2400-091	25°
2400-092	45°
2400-093	60°

DeBakey Power Cut Black® Scissors

PC black / 6 3/4" (17 cm)

2400-735	25° angle
2400-736	45° angle

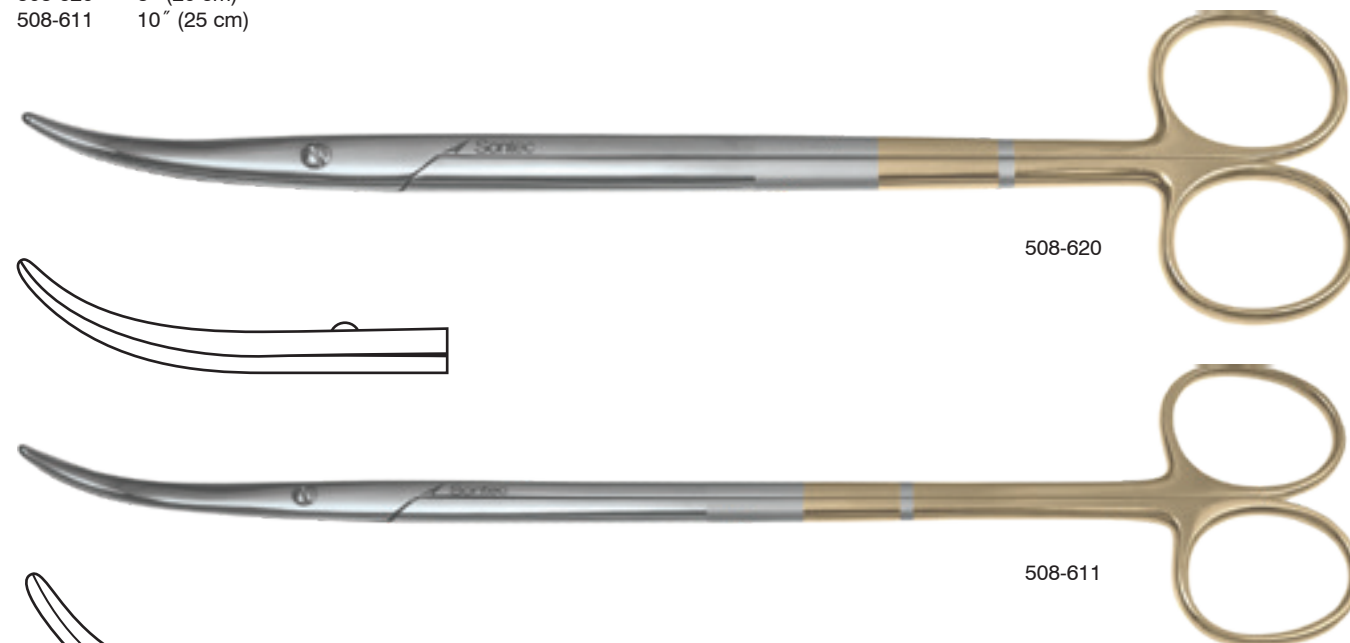


2400-735

Thorek Power Cut Gold® Scissors

PC gold / right angle

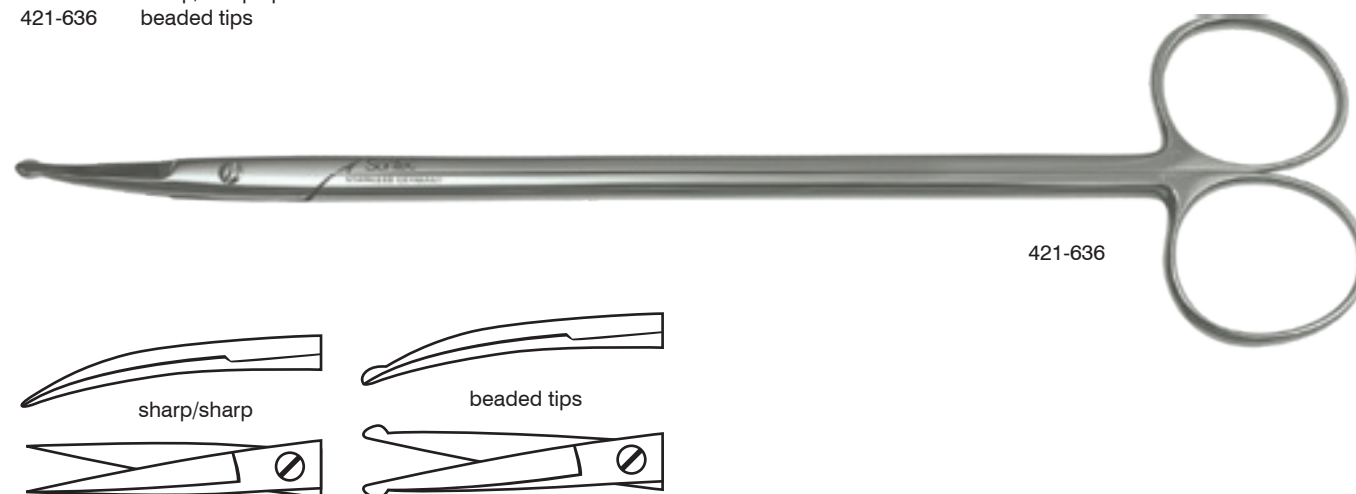
508-620	8" (20 cm)
508-611	10" (25 cm)



Strully Classic Scissors

Curved / 8" (20 cm)

421-635	sharp/sharp tips
421-636	beaded tips



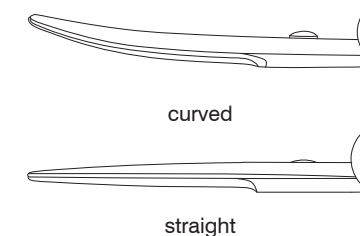
Church Power Cut Gold® Power Cut Black® Scissors

Straight / 7" (18 cm)

440-300	
440-301	PC gold
440-305	PC black

Curved / 7" (18 cm)

440-302	
440-303	PC gold
440-304	PC black



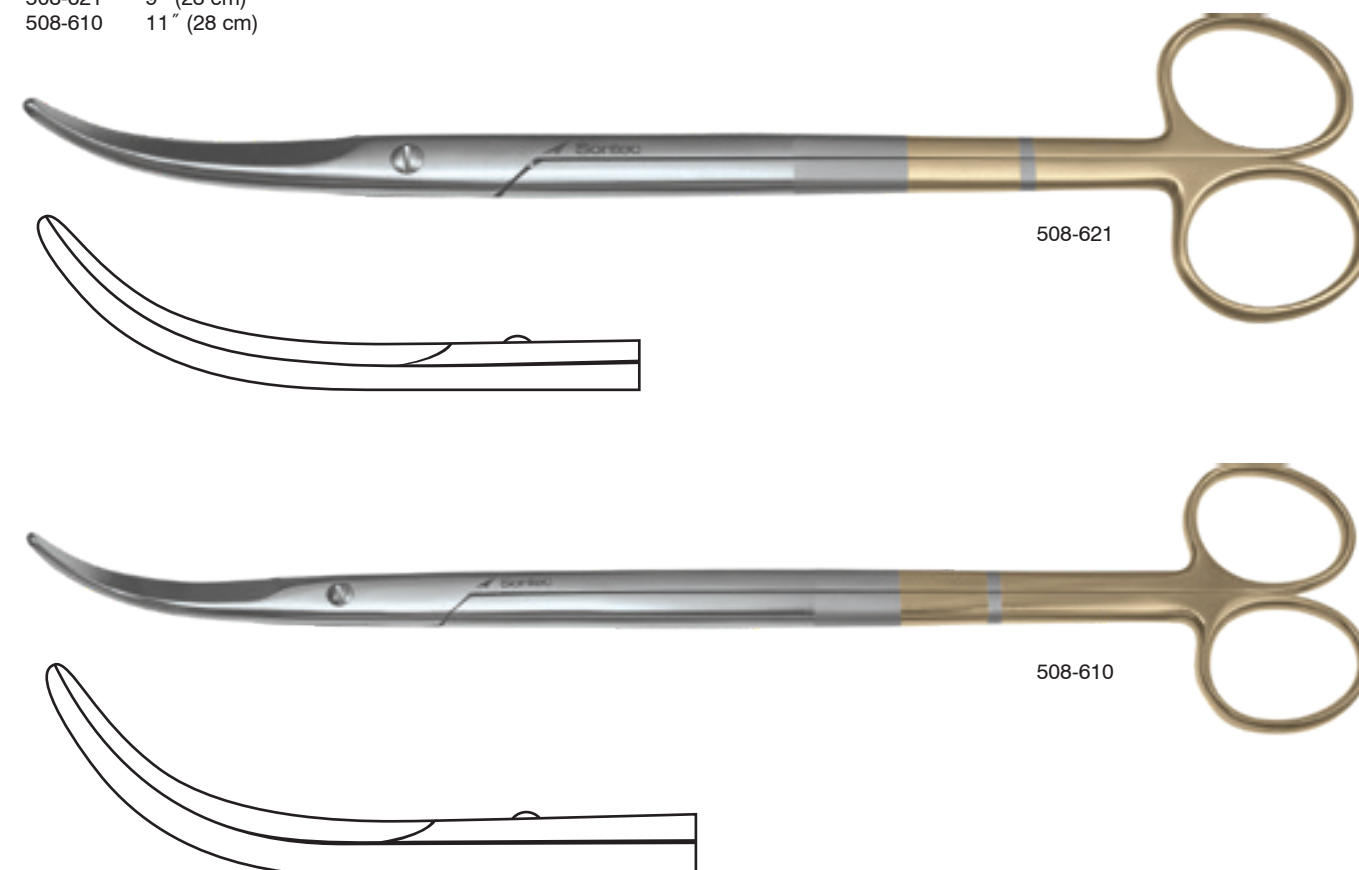
10" (25 cm)

440-286	straight
440-288	curved

Heaney-Thorek Power Cut Gold® Scissors

PC gold / right angle / beveled blades

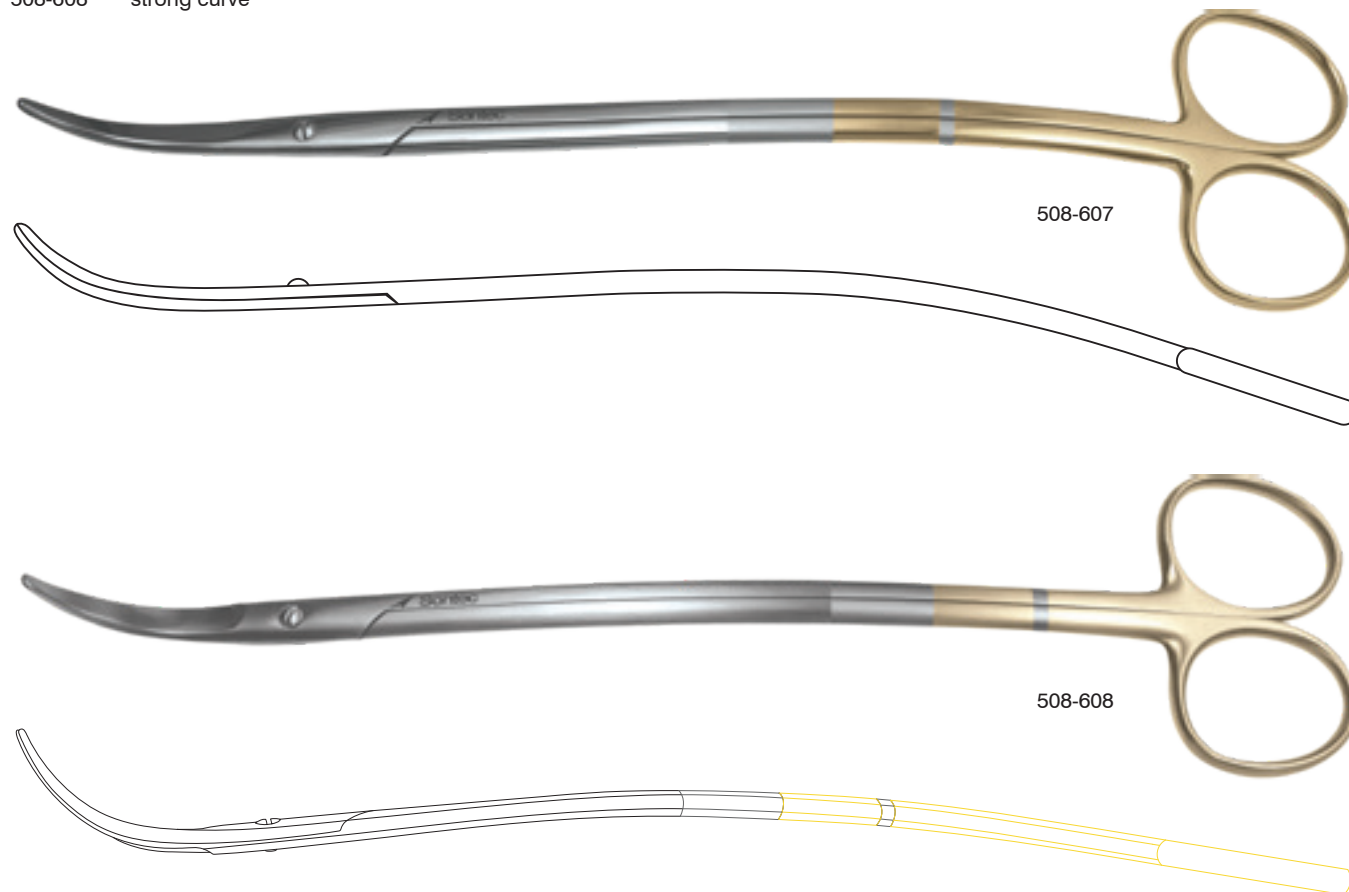
508-621	9" (23 cm)
508-610	11" (28 cm)



Stratte S-Curve Power Cut Gold® Scissors

PC gold / 10" (25 cm)

508-607 slight curve
508-608 strong curve



Thorek Scissors

PC gold / full curved / 7" (17.8 cm)

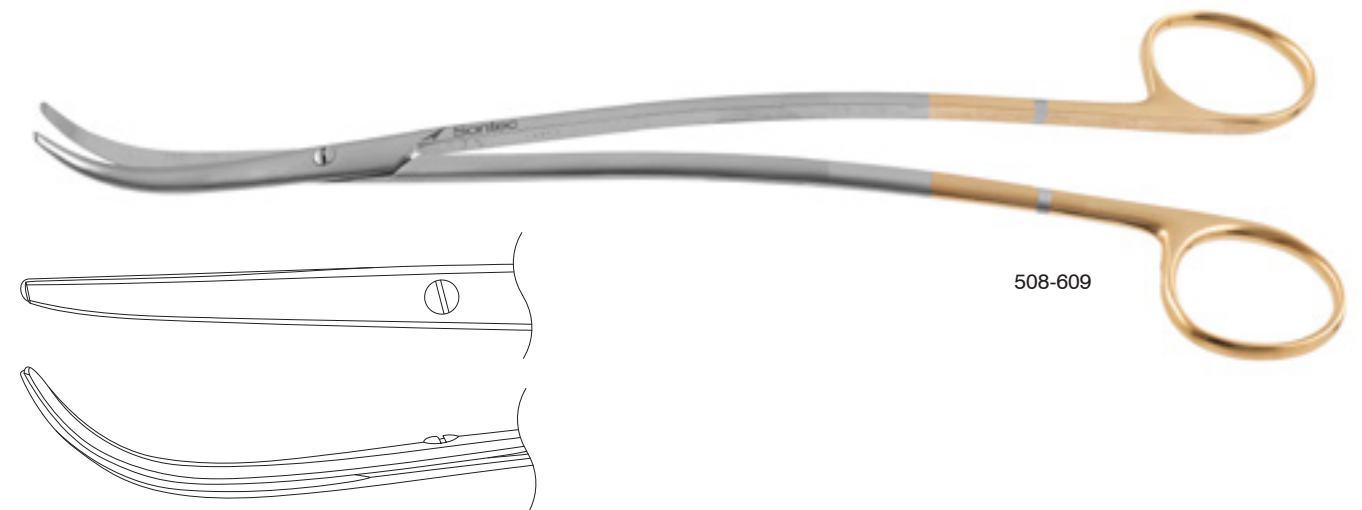
508-6207



Stratte Stille Power Cut Gold® Scissors

PC gold / full s-curved / 10" (25 cm)

508-609



Stratte Jameson Power Cut Gold® Scissors

PC gold / Strong s-curved / tenotomy tip / 10" (25 cm)

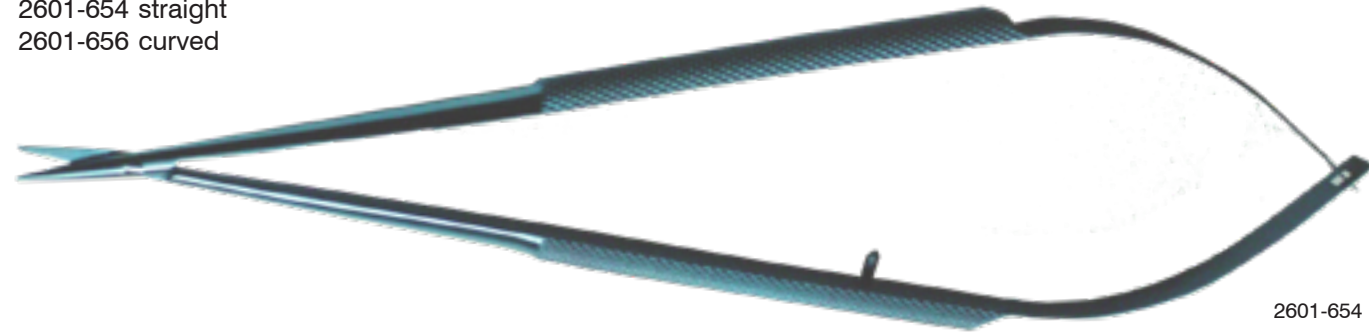
508-612



Titanium Jacobson Scissors

Round handle / 15mm blade / 7 1/4" (19 cm)

2601-654 straight
2601-656 curved



2601-654

Titanium Jacobson Scissors

Streamlined / 6 1/2" (16.5 cm)

2600-920 45°
2600-926 125°

Streamlined / ball tip / 6 1/2" (16.5 cm)

2600-920B 45°
2600-926B 125°



2600-920B



45°



125°

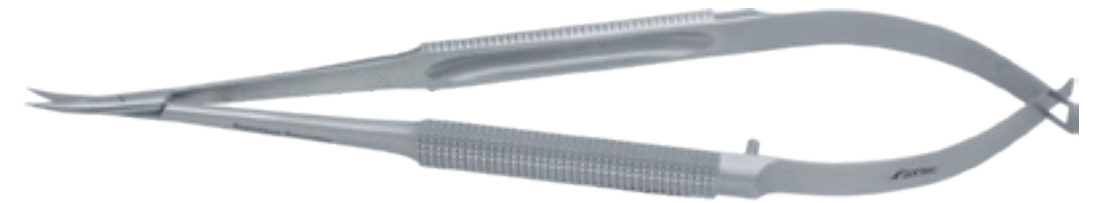


Ball tip

Jacobson Micro Scissors

Round handle / 9 mm blade / sharp /
5 1/2" (14 cm)

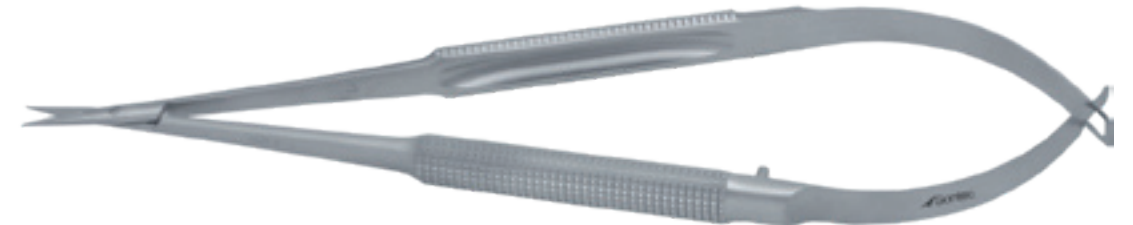
2400-510 straight
2400-514 curved



2400-514

Round handle / blunt / 5 1/2" (14 cm)

2400-512 straight
2400-516 curved



2400-512

Finesse Scissors

Round handle / curved /
w/o lock / 6" (15 cm)

2400-550

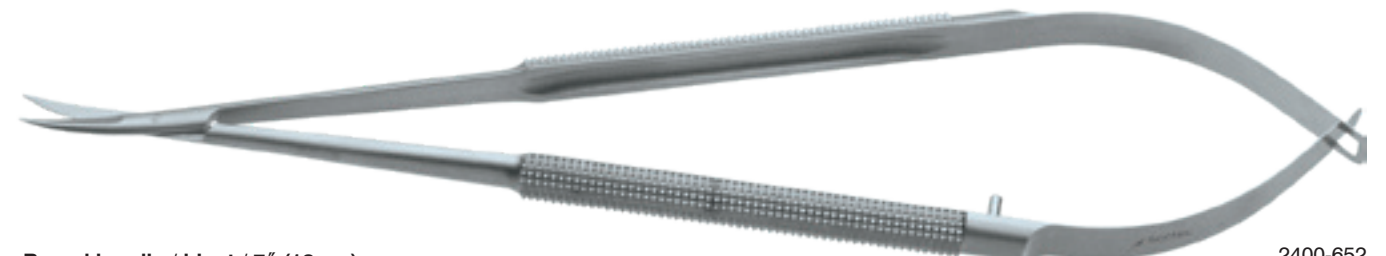


2400-550

Jacobson Scissors

Round handle / sharp / 7" (18 cm)

2400-650 straight
2400-652 curved



2400-652

Round handle / blunt / 7" (18 cm)

2400-654 straight
2400-656 curved

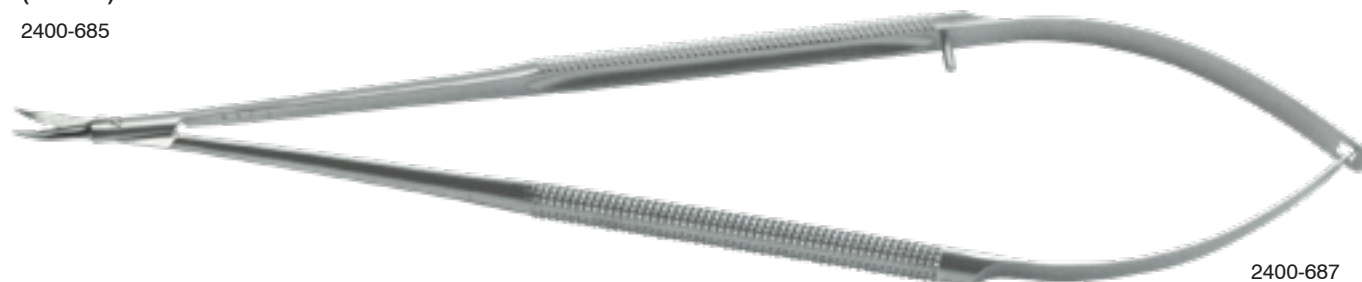
Jacobson Vannas Scissors

Strong curve / round handle / one blade
serrated / 7 1/2" (19 cm)

2400-687

45° angled on flat / flat handle / 7 1/4"
(18.4 cm)

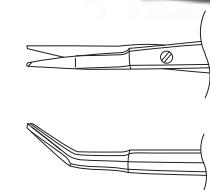
2400-685



2400-687



2400-685



Jacobson Neuro Scissors

Round handle / one blade serrated / 7
1/2" (19 cm)

2400-6571 straight
2400-6572 curved



2400-6571

Round handle / 7 1/2" (19 cm)

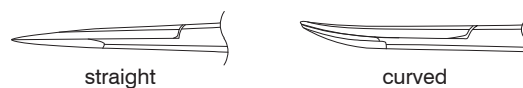
2400-6500 straight
2400-6520 curved

Round handle / 8 1/4" (21 cm)

2400-658 straight
2400-659 curved



2400-659



straight

curved

Jacobson Micro Scissors

Round handle / sharp blades / 14 mm /
4 1/4" (10.75 cm)

2400-626 25°
2400-627 45°
2400-629 60°
2400-631 90°
2400-633 125° g-neck



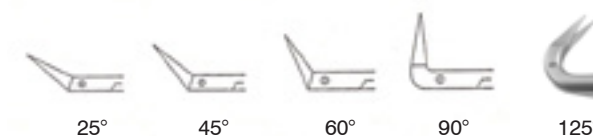
14 mm tip

Round handle / sharp blades / 11 mm /
4 1/4" (10.75 cm)

2400-6261 25°
2400-6271 45°
2400-6291 60°
2400-6311 90°
2400-6331 125° g-neck



11 mm tip



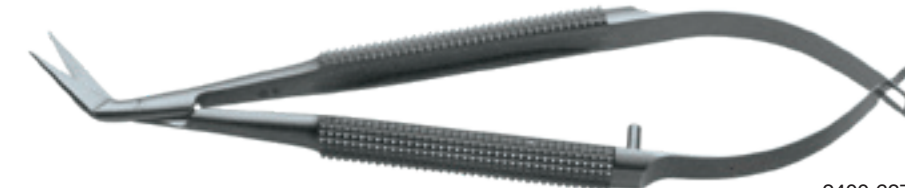
25°

45°

60°

90°

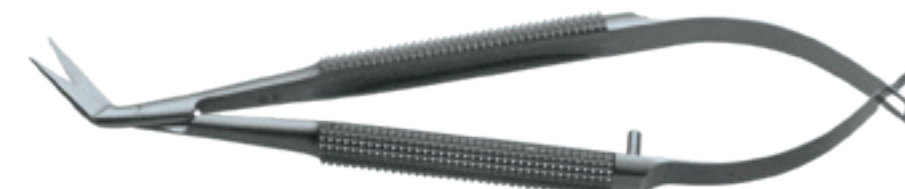
125°



2400-627



2400-6261



2400-629

Jacobson Micro Scissors

Flat handle / fine blade / 8 mm blade / 7" (18 cm)

2400-661F	25°
2400-663F	45°
2400-665F	60°
2400-667F	90°
2400-669F	125° v-neck
2400-670F	125° g-neck

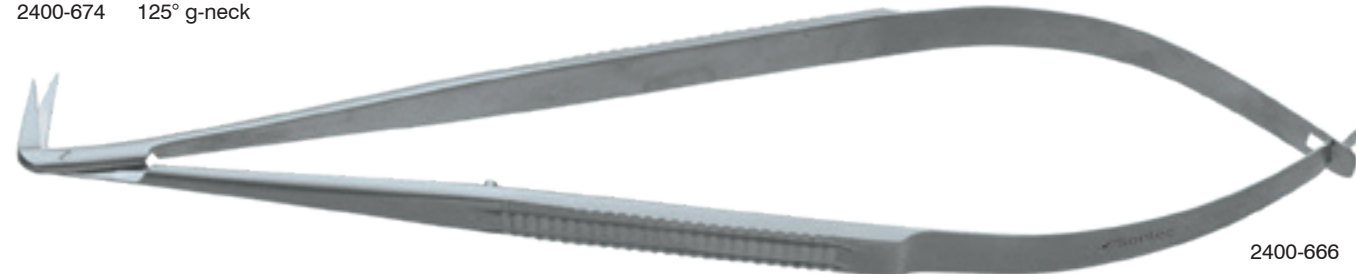


Flat handle / fine blade / 8 mm blade / 8" (20 cm)

2400-6618	25°
2400-6638	45°
2400-6658	60°
2400-6678	90°
2400-6698	125° v-neck
2400-6708	125° g-neck

Flat handle / fine blade / 11 mm blade / 7" (18 cm)

2400-660	25°
2400-662	45°
2400-664	60°
2400-666	90°
2400-673	125° v-neck
2400-674	125° g-neck



Black ceramitec coated / flat handle / 11 mm blades / 7" (18 cm)

2400-674C	125° g-neck
-----------	-------------

Black ceramitec coated / flat handle / fine blades / 14 mm blades / sharp blades / 7" (18 cm)

2400-680C	125° g-neck
-----------	-------------

Flat handle / fine blade / 14 mm blade / 7" (18 cm)

2400-675	25°
2400-676	45°
2400-677	45° blunt
2400-678	60°
2400-679	90°
2400-680	125° g-neck



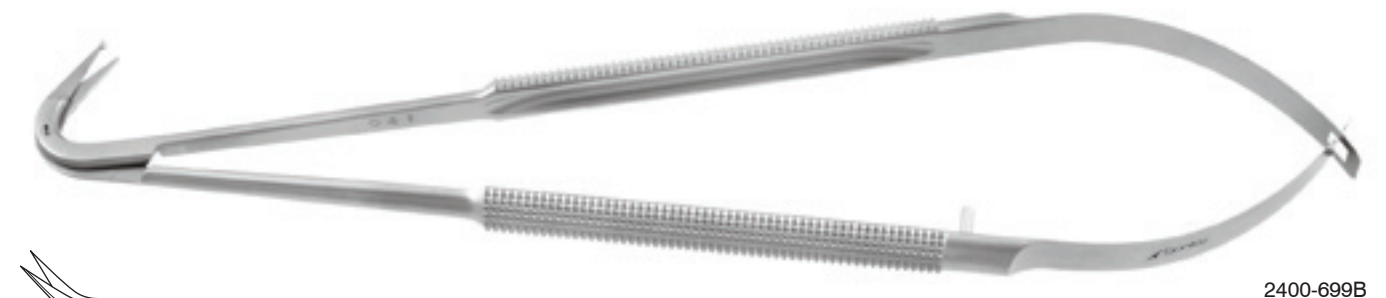
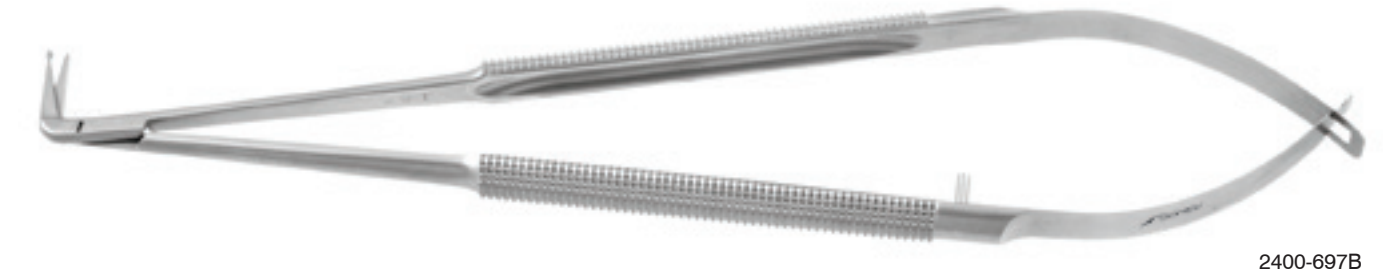
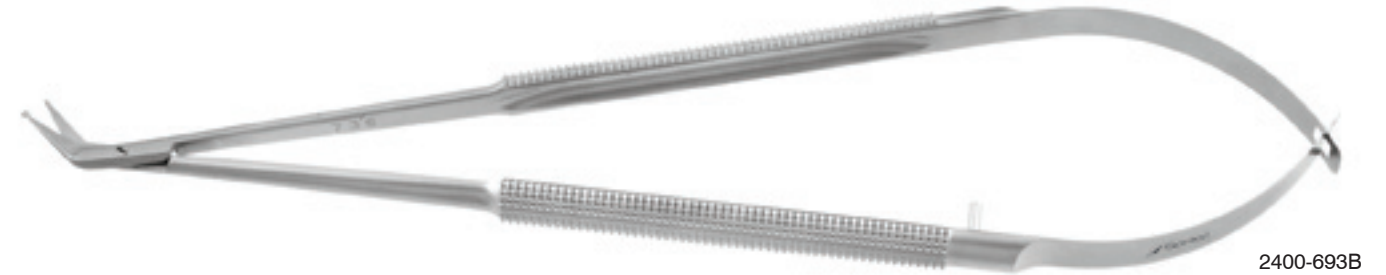
Jacobson Micro Scissors

Round Handle / bead tip for blunt dissection / 11 mm blade / 7" (17.8 cm)

2400-691B	25°
2400-693B	45°
2400-695B	60°
2400-697B	90°
2400-699B	125° g-neck

Round handle / bead tip for blunt dissection / 14 mm blade / 7" (17.8 cm)

2400-690B	25°
2400-692B	45°
2400-694B	60°
2400-696B	90°
2400-698B	125° g-neck



11 mm tip



Jacobson Extra Long Micro Scissors

Round handle / fine blades / 11 mm blade

2400-6908	8" (20.3 cm)	25°
2400-693	8 1/4" (21 cm)	45°
2400-6977	8" (20.3 cm)	125° G-neck
2400-6978	8" (20.3 cm)	125° V-neck



2400-6908



2400-693



2400-6978

Round handle / fine blades / 11 mm blade / 9" (22.9 cm)

2400-6909	25°
2400-6929	45°
2400-6979	125°v-neck

Round handle / fine blades / 11 mm blade / 10" (25.4 cm)

2400-6901	25°
2400-6921	45°
2400-6971	125°v-neck



11 mm tip



125° v-neck 45° 25°

Castroviejo Micro Scissors

Flat handle / 7 mm blade / 4" (10 cm)

2400-619A	25 °
2400-619B	45 °
2400-619C	60 °
2400-619D	90 °
2400-619E	125 ° goose-neck
2400-619F	125 ° v-neck



7 mm tip

Flat handle / 10 mm blade / 4" (10 cm)

2400-620A	25 °
2400-620B	45 °
2400-620C	60 °
2400-620D	90 °
2400-620E	125 ° goose-neck
2400-620F	125 ° v-neck



2400-620A



2400-620B



2400-620E

Flat handle / 10 mm blade / 4 1/2" (11.5 cm)

2400-621A	25 °
2400-621B	45 °
2400-621C	60 °
2400-621D	90 °
2400-621E	125 ° goose-neck
2400-621F	125 ° v-neck



10 mm tip

Flat handle / 14 mm blade / 4 1/2" (11.5 cm)

2400-622A	25 °
2400-622B	45 °
2400-622C	60 °
2400-622D	90 °
2400-622E	125 ° goose-neck



14 mm tip



125° v-neck 125° g-neck 90° 60° 45° 25°

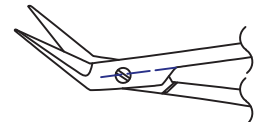
Jacobson Micro Scissors

Flat Handle / 45°

2400-635 5" (12.5 cm)
2400-6356 5 1/2" (14cm)



45°



2400-635

2400-6356

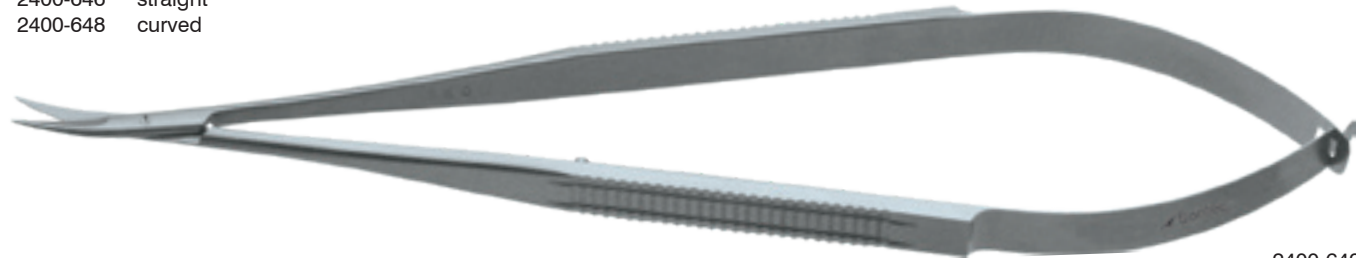
Jacobson Micro Scissors

Flat handle / sharp / 7" (18 cm)

2400-640 straight
2400-642 curved

Flat handle / blunt / 7" (18 cm)

2400-646 straight
2400-648 curved



2400-642

Jacobson Micro Scissors

Flat handle / sharp / 6" (15.2 cm)

2400-5180 straight
2400-5181 curved

Flat handle / blunt / 6" (15.2 cm)

2400-5190 straight
2400-5191 curved

Flat handle / 45° / 7" (18 cm)

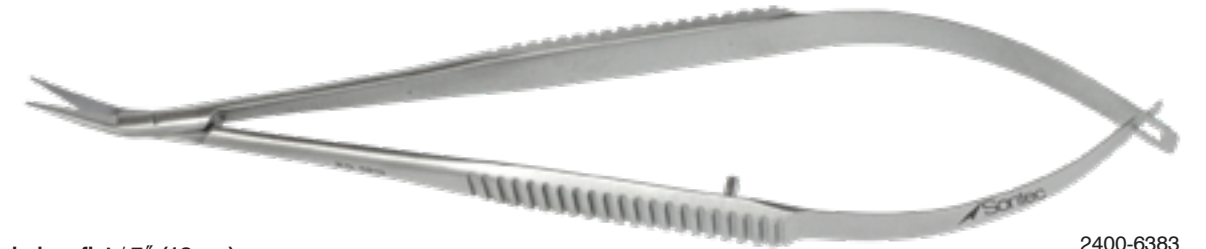
2400-671 sharp
2400-672 blunt



Jacobson Micro Scissors Angled or Flat

Flat handle / angle on flat / 6" (15 cm)

2400-6382 25°
2400-6383 40°
2400-6384 60°
2400-6385 90°



2400-6383

Flat handle / angled on flat / 7" (18 cm)

2400-6342 25°
2400-6343 45°
2400-6344 60°
2400-6345 90°



2400-6342

Short flat handle / angled on flat / 14mm blade / 9" (23 cm)

2400-6372 25°
2400-6373 45°
2400-6374 60°
2400-6375 90°

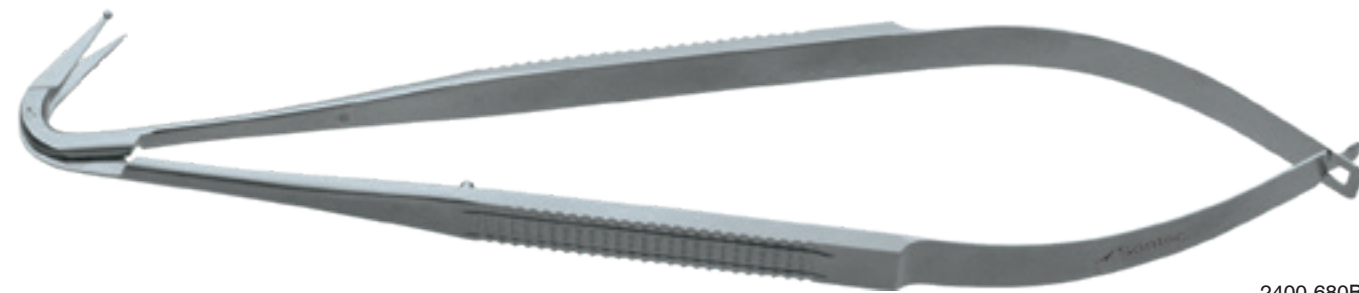


2400-6375

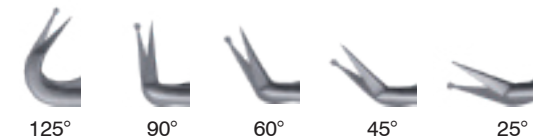
Jacobson Micro Scissors

Flat handle / bead tip for blunt dissection / 6 1/2" (cm)

2400-675B	25°
2400-676B	45°
2400-678B	60°
2400-679B	90°
2400-680B	125°



2400-680B



Jacobson Extra Long Micro Scissors

Flat handle / fine blades / 11 mm blades / 8" (20 cm)

2400-6608	25°
2400-6628	45°
2400-6648	60°
2400-6668	90°
2400-6738	125° v-neck
2400-6748	125° g-neck



2400-6738



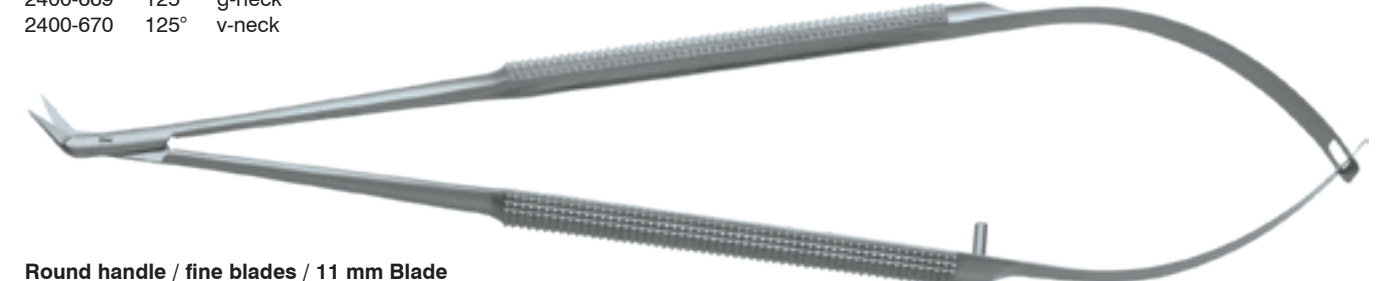
Jacobson Micro Scissors

Round handle / fine blades / 8 mm Blade / sharp blade / 7" (18 cm)

2400-661	25°
2400-663	45°
2400-665	60°
2400-667	90°
2400-669	125° g-neck
2400-670	125° v-neck



8 mm blade



2400-663

Round handle / fine blades / 11 mm Blade / sharp blade / 7" (18 cm)

2400-690	25°
2400-692	45°
2400-694	60°
2400-696	90°
2400-698	125° g-neck
2400-688	125° v-neck



11 mm blade



2400-698

Round handle / fine blades / 14 mm Blade / sharp blades / 7" (18 cm)

2400-681	25°
2400-682	45°
2400-683	60°
2400-684	90°
2400-686	125° g-neck



14 mm blade



2400-683C

Black ceramic coated / round handles / fine blades / 11 mm blades / sharp blades / 7" (18 cm)

2400-681C	25°
2400-683C	60°
2400-684C	90°
2400-689	180° g-neck

All scissors available with **carbon coating**.
Prolongs blade life and protects against corrosion.
Pictured above
Please contact Sontec for more information

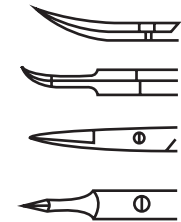
Jacobson Yasargil Bayonet Micro Scissors

Yasargil handle / sharp smooth blade / 8" (20.5 cm)

400-270	straight	14 mm
400-271	curved	14 mm
400-272	45° angle	14 mm

Yasargil handle / vannas blade / 8" (20.5 cm)

400-273	straight
400-274	curved



400-272

Yasargil handle / 8" (20.5 cm)

400-275	straight	8 mm blade
400-276	curved	8 mm blade
400-277	45° angle	8 mm blade
400-278	125° angle	8 mm blade



400-277

Bayonet Circumflex Micro Scissors

Flat handle / 125° / 5 1/2" (14 cm)

2400-535	goose neck
----------	------------

Flat handle / 125° / 7 1/8" (18.25 cm)

2400-537	goose neck	
2400-538	v neck	
2400-539	left handled	goose neck

Flat handle / 125° / beaded tip / 7 1/4" (18.4 cm)

2400-541	goose neck
----------	------------



2400-535



2400-537

Double Action Micro Scissors

Titanium/ stainless / round handle / 7 1/4" (18.5 cm)

2600-914 straight
2600-916 curved



2600-916

Sontec Double Action Micro Scissors

Double action / round handle / 7 1/4" (18.5 cm)

2400-545 straight
2400-547 curved

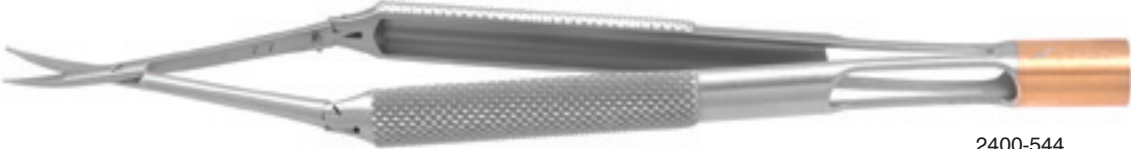


2400-545

Sontec Heifetz Micro Scissors

Double action / round handle / 6" (15 cm)

2400-542 straight
2400-544 curved



2400-544

Jameson Tenotomy Classic, Tungsten Carbide, Power Cut Gold,
Power Cut Black®, TC/PC Power Cut® Scissors

Classic / straight

2405-325 7" (18 cm)
2405-330 8" (20 cm)
2405-332 9" (23 cm)
2405-334 10 1/4" (25.5 cm)



2400-329

Classic / curved

2405-329 7" (18 cm)
2405-331 8" (20 cm)
2405-333 9" (23 cm)
2405-335 10 1/4" (25.5 cm)

PC gold / straight

2400-325 7" (18 cm)
2400-331S 8" (20 cm)
2400-332 9" (23 cm)
2400-334 10 1/4" (25.5 cm)

PC gold / curved

2400-329 7" (18 cm)
2400-331 8" (20 cm)
2400-333 9" (23 cm)
2400-335 10 1/4" (25.5 cm)



2400-829

PC black / straight

2400-825 7" (18 cm)
2400-830 8" (20 cm)
2400-832 9" (23 cm)
2400-834 10 1/4" (25.5 cm)

PC black / curved

2400-829 7" (18 cm)
2400-829H 7" (18 cm) heavy
2400-831 8" (20 cm)
2400-833 9" (23 cm)
2400-835 10 1/4" (25.5 cm)

Jameson Tenotomy Classic, Tungsten Carbide, Power Cut Gold, Power Cut Black®, TC/PC Power Cut® Scissors

TC/PC / straight

2405-825	7" (18 cm)	
2405-825E	7" (18 cm)	spread ergonomic handle
2405-830	8" (20 cm)	
2405-830E	8" (20 cm)	spread ergonomic handle
2405-832	9" (23 cm)	
2405-834	10 1/4" (25.5 cm)	

TC/PC / curved

2405-829	7" (18 cm)	
2405-829E	7" (18 cm)	spread ergonomic handle
2405-831	8" (20 cm)	
2405-831E	8" (20 cm)	spread ergonomic handle
2405-833	9" (23 cm)	
2405-835	10 1/4" (25.5 cm)	



2405-833



2405-829E

Stevens Tenotomy Power Cut Black® Scissors

Tenotomy tip / PC black / curved / 7" (17.8 cm)

2400-869	
2400-869A	fine



2400-869

Stevens Tenotomy Power Cut Black® Double Articulating Scissors

Curved / double action / PC black / 10 1/4" (26.04 cm)

140-421



140-421

Reynolds Tenotomy Classic, Power Cut Gold, Power Cut Black®, TC/PC Power Cut® Scissors

Classic / 5 3/4" (14.5 cm)

2405-324S straight
2405-324 curved

PC gold / 5 3/4" (14.5 cm)

2400-324S straight
2400-324 curved

PC black / 5 1/4" (13.3 cm)

2400-823S straight
2400-823 curved

PC black / 5 3/4" (14.5 cm)

2400-824S straight
2400-824 curved

TC/PC / 5 3/4" (14.5 cm)

2405-824S straight
2405-824 curved

Classic / 6 1/4" (16 cm)

2405-326 straight
2405-327 curved

PC gold / 6 1/4" (16 cm)

2400-326 straight
2400-327 curved
1200-348 curved spread handle

PC black / 6 1/4" (16 cm)

2400-826 straight
2400-827 curved
2400-827S curved spread handle

TC/PC / spread handle / 6 1/4" (16 cm)

2405-826 straight
2405-827 curved



2405-324S



2400-327



2400-827S

Reynolds Tenotomy Classic, Power Cut Gold®, Power Cut Black®, TC/PC Power Cut Scissors

Delicate / classic / 7" (18 cm)

2405-325D straight
2405-329D curved

Delicate / PC gold / 7" (18 cm)

2400-325D straight
2400-329D curved

Delicate / PC black / 7" (18 cm)

2400-825D straight
2400-829D curved

Delicate / TC/PC / 7" (18 cm)

2405-825D straight
2405-829D curved
2405-828D straight spread handle
2405-832D curved spread handle

Delicate / classic / 8" (20.5 cm)

2400-826D straight
2400-828D curved

Delicate / PC gold / 8" (20.5 cm)

2400-832D straight
2400-833D curved

Delicate / PC black / 8" (20.5 cm)

2400-830D straight
2400-831D curved

Delicate / TC/PC / 8" (20.5 cm)

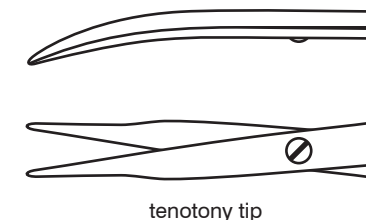
2405-830D straight
2405-831D curved

Delicate / TC/PC / curved / 9" (23 cm)

2405-8259



2400-329D



tenotomy tip



2405-832D



2400-831D

Freeman-Kaye Ergonomic Spread Handle Saberback Power Cut Gold®, Power Cut Black®, TC/PC Power Cut Scissors

Ergonomic / spread handle / double beveled blades / flat tip / curved / PC black / delicate

475-178 7 1/2" (19 cm)

Ergonomic / spread handle / double beveled blades / flat tip / straight / PC black / 7 1/2" (19 cm)

475-179

Ergonomic / spread handle / double beveled blades / flat tip / curved / PC gold / 8" (20 cm)

475-181

Ergonomic / spread handle / double beveled blades / flat tip / curved / TC/PC / black ceramic coating / 7 1/2" (20 cm)

1200-970

1200-970D delicate

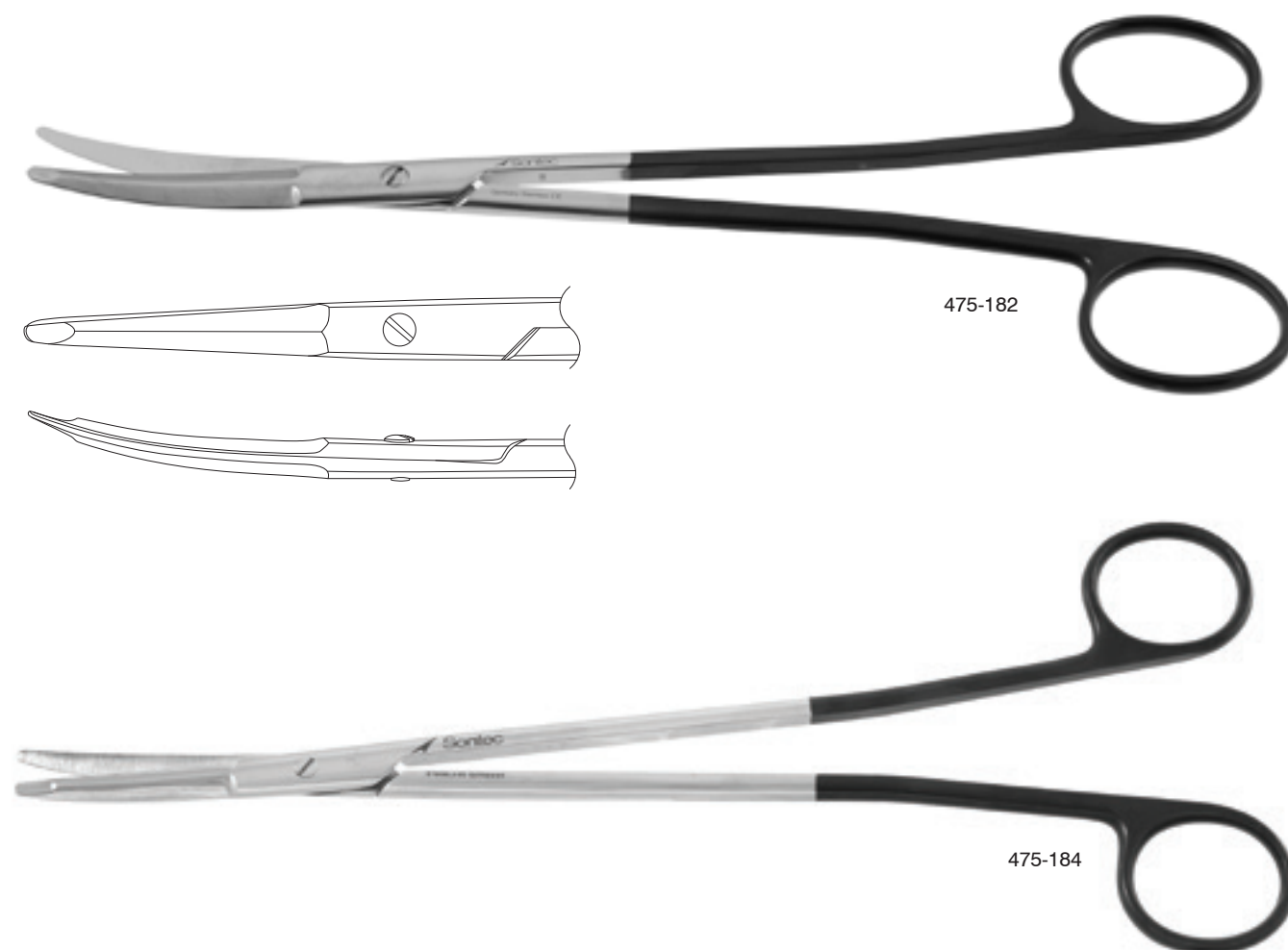


Freeman-Kaye Ergonomic Spread Handle Saberback Scissors

Ergonomic / spread handle / double beveled blades / flat tip / curved / PC black / delicate

475-182 7 3/4" (20 cm) fino

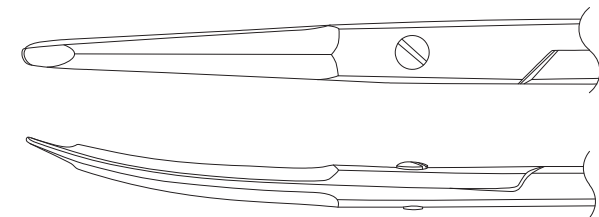
475-184 9" (23 cm)



Freeman-Kaye Ergonomic Spread Handle Saberback Scissors

Ergonomic / spread handle / double beveled blades / spatulated tip / curved / TC/PC

475-188 7 1/4" (18.5 cm)
475-187 9" (23 cm)



475-188

Ergonomic / spread handle / double beveled blades / flat tip / straight / TC/PC

475-185 7 1/4" (18.5 cm)
475-186 9" (23 cm)



475-185



Delicate Freeman-Kaye Ergonomic Spread Handle Saberback Scissors

Ergonomic / spread handle / double beveled blades / flat tip / delicate / curved / TC / 7" (18 cm)

475-183 c-shaped special order
475-183D



475-183D

Delicate Freeman-Kaye Ergonomic Spread Handle Saberback Scissors

Ergonomic / spread handle / double beveled blades / spatulated tip / delicate / curved / TC/PC / one serrated / 7" (17.8 cm)

475-188D curved
475-188DS straight



475-188D

Martin Cartilage Tenotomy Classic Power Cut Gold® Scissors

Classic / 8" (20.5 cm)

350-861 straight
350-862 curved



350-864

PC gold / 8" (20.5 cm)

350-863 straight
350-864 curved



350-861B

PC black / 8" (20.5 cm)

350-861B straight
350-862B curved

Cooley Power Cut Gold® Scissors

PC gold / 7 1/2" (19 cm)

2400-396 straight
2400-397 curved



2400-397

Joseph Sharp Sharp Classic Power Cut Gold® Power Cut Black® Scissors

PC Black / 5 1/2" (14 cm)

2400-728 straight
2400-729 curved

PC Gold / 5 1/2" (14 cm)

2400-428 straight
2400-435 curved

5 3/4" (14.5 cm)

110-312 straight
110-313 curved



2400-728



2400-435

Joseph-Peck Saberback Classic Power Cut Gold® Power Cut Black® TC/PC Power Cut Scissors

Saberback / curved / 4 1/2" (15 cm)

2400-438 PC Gold

Saberback / curved / 6" (15 cm)

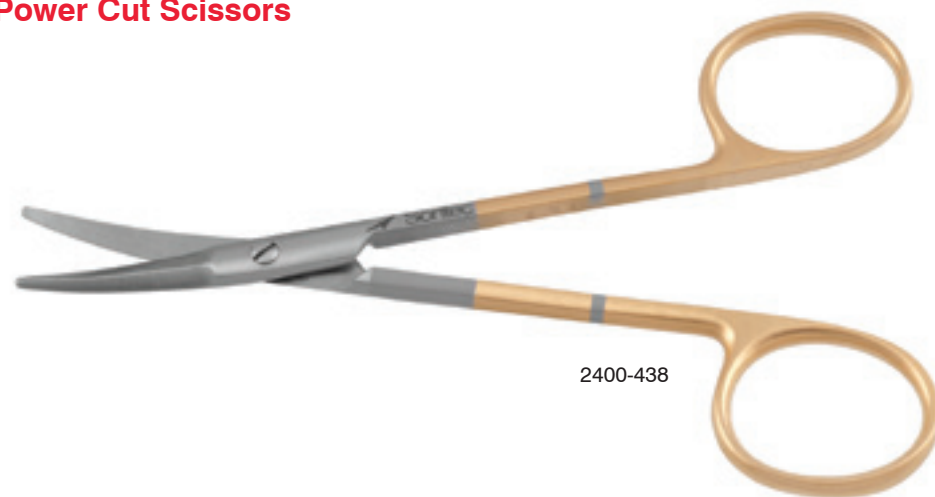
2400-440 classic
2400-439 PC Gold
2400-442 TC/PC
2400-739 PC Black curved
2400-733 PC Black straight

Straight / 6" (15 cm)

2400-433 PC Gold

**Ceramic coated / saberback /
TC/PC curved blades /
black with gold screw and
gold shiny rings / 6" (15 cm)**

1200-945



2400-438



2400-442



1200-945

Kelly Power Cut Gold® Power Cut Black® Fistula Scissors

PC Black / 6 1/4" (16 cm)

508-636 straight
508-637 curved



508-637

PC Gold / 6 1/4" (16 cm)

508-638 straight
508-639 curved



508-639

Classic / 6 1/4" (16 cm)

508-632 straight
508-633 curved

Classic / serrated / 6 1/4" (16 cm)

508-634 straight
508-635 curved



508-632

Laine-Kindal Power Cut Black® Scissors

Curved / 7 1/8" (18.25 cm)

2400-997F tenotomy tip micro fine
2400-997 tenotomy tip
2400-996 sharp tip
2400-995 blunt tip



Sontec®-Stevens-Ragnell Power Cut Black® Scissors

Uniquely beveled blades / 6 7/8" (17.5 cm)

2400-895 regular
2400-896 delicate



Ragnell Power Cut Black® Undermining Scissors

PC black / flat tip / curved

2400-875 4 3/4" (12 cm)
2400-877 6" (15 cm)



Ragnell Power Cut Black® Undermining Scissors

PC black / flat tip / curved

2400-879 7" (18cm)
2400-881 8" (20 cm)
2400-883 9" (23 cm)



Ragnell Undermining Power Cut Gold® Scissors

PC gold / spatulated tips / curved

2400-374	4 1/2" (11.5 cm)	
2400-375	5" (12.5 cm)	
2400-3751	5" (12.5 cm)	full curved
2400-376	5 1/2" (14 cm)	
2400-377	6" (15 cm)	
2400-379	7" (18 cm)	
2400-381	8" (20 cm)	
2400-383	9" (23 cm)	
2400-383S	9" (23 cm)	strong curved
2400-385	10 3/4" (26.5 cm)	



strong curved
2400-383S



2400-374



2400-375

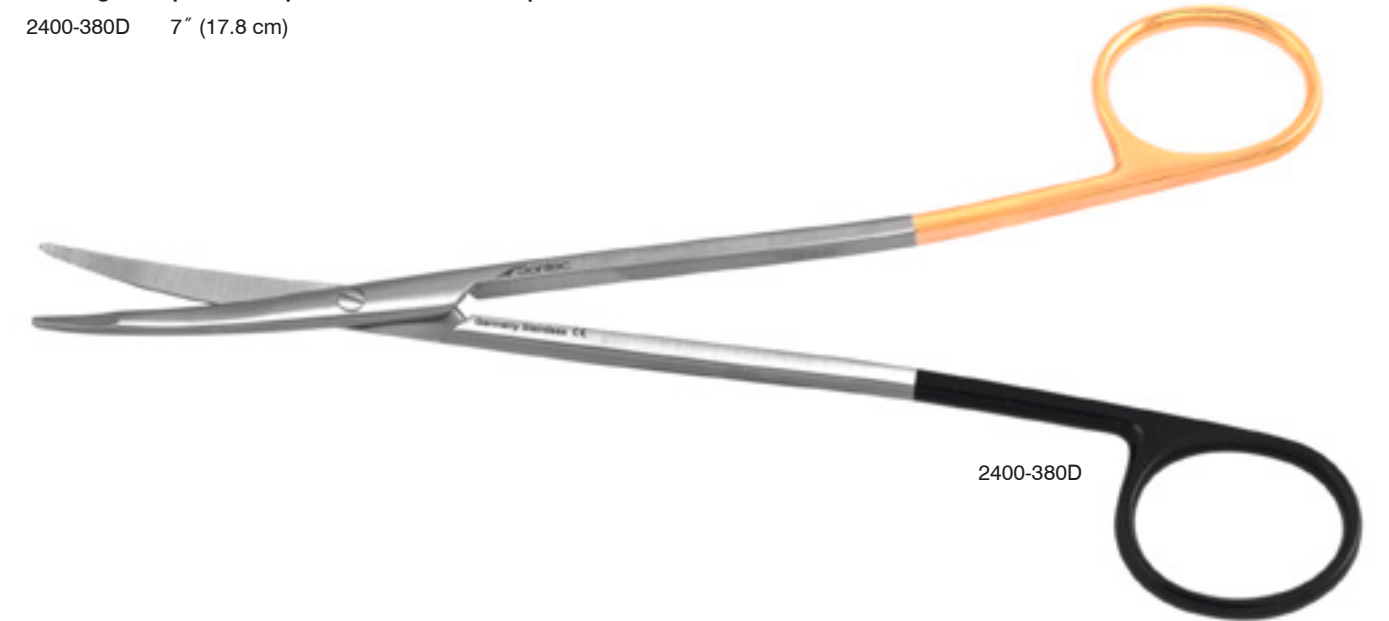


2400-377

Ragnell Tungsten Carbide Power Cut Gold® Scissors

TC PC gold / spatulated tips / curved / delicate / spread handles

2400-380D	7" (17.8 cm)
-----------	--------------



2400-380D

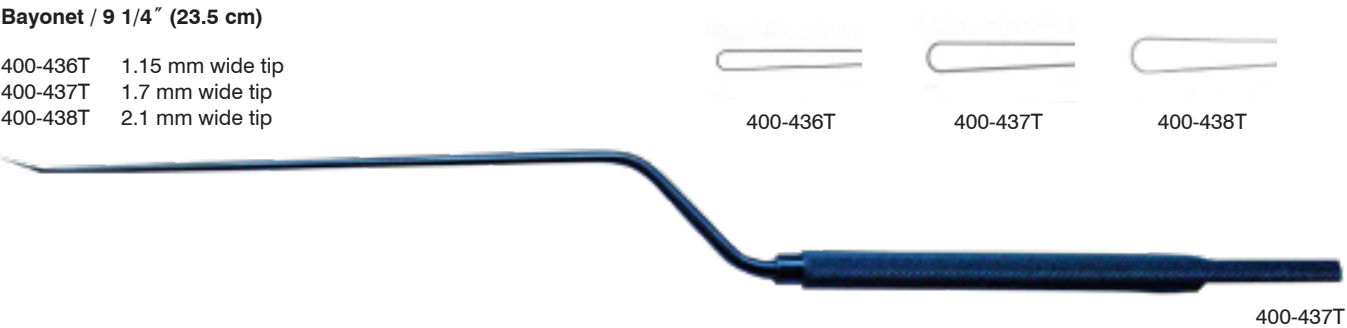


 Sontec Instruments®
Misc. & Suction

Yasargil Bayonet Raspatory Titanium



Yasargil Dissector Raspatory Titanium



Oschner Dissector



Ochsner-Sontec Straight Dissector



Oschner 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

Sarns Myocardial Dilator

8" (20.3 cm)

2700-260	5.3 mm
2700-262	6 mm
2700-264	8 mm
2700-266	9.5 mm



2700-260



2700-262



2700-264



2700-266

Myocardial Dilator Graduated

2700-250	14.5 cm	5 3/4"
2700-252	12.5 cm	5"

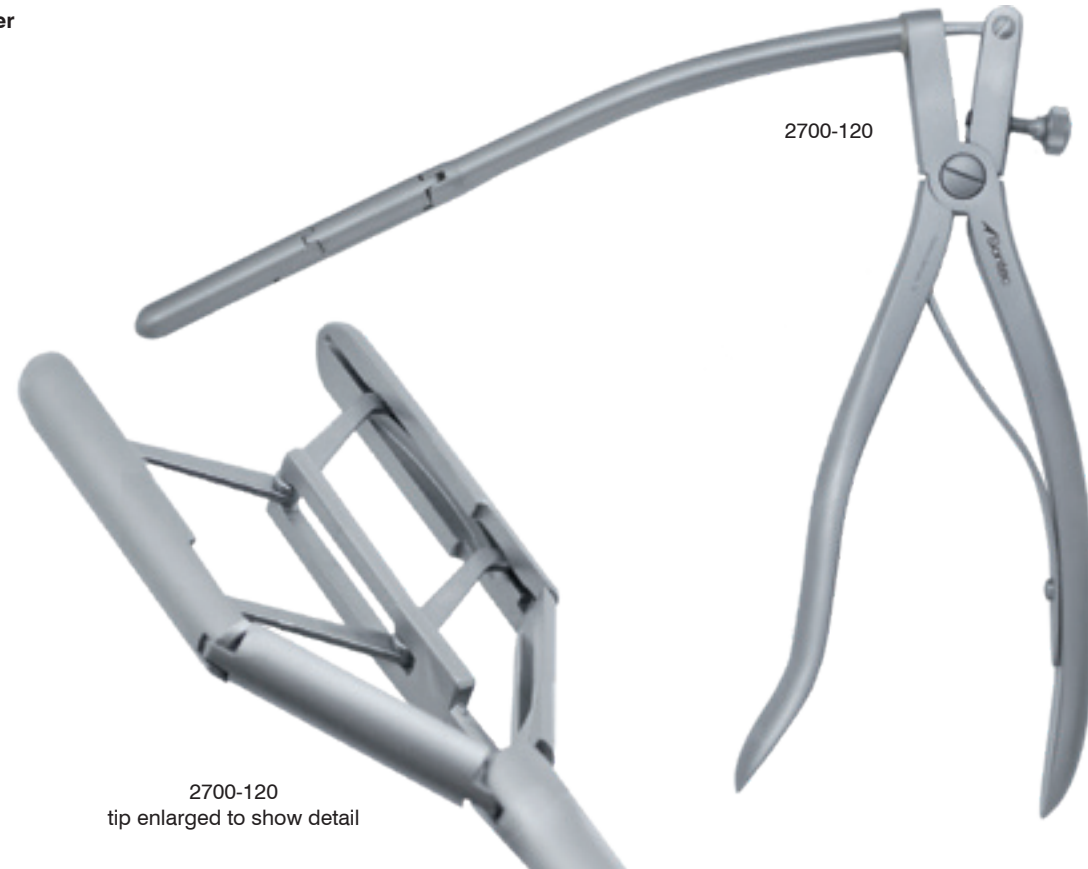


2700-250

Tubbs Mitral Valve Dilator

8 mm in Diameter

2700-120



2700-120

2700-120
tip enlarged to show detail

Garrett Vascular Dilator Cylinder Holder

For Garrett Vascular Dilators / 5 3/4" Shaft (14.5 cm)

2700-054



2700-054

Garrett Vascular Dilator

Soft / Malleable / 5 1/2" (14 cm)

2700-051	0.5 mm
2700-052	1.25 mm
2700-053	1.75 mm
2700-031	1.0 mm
2700-032	1.5 mm
2700-033	2.0 mm
2700-034	2.5 mm
2700-035	3.0 mm
2700-036	3.5 mm
2700-037	4.0 mm
2700-038	4.5 mm
2700-039	5.0 mm



2700-033



2700-036

Complete set of three,
including:0.5 mm, 1.25 mm, & 1.75
mm dilators

2700-050

Complete set of nine, including:1.0
mm - 5.0 mm dilators

2700-030

Soft / Malleable / 8 1/4" (21 cm)

2700-021	0.5 mm
2700-022	1.25 mm
2700-023	1.75 mm
2700-002	1.0 mm
2700-003	1.5 mm
2700-004	2.0 mm
2700-005	2.5 mm
2700-006	3.0 mm
2700-007	3.5 mm
2700-008	4.0 mm
2700-009	4.5 mm
2700-010	5.0 mm

complete set of three,
including:0.5 mm, 1.25 mm, & 1.75
mm dilators

2700-020

Complete set of nine, including:1.0
mm - 5.0 mm dilators

2700-001



2700-004

Arrow tip / 8 1/4" (21 cm)

2700-002P	1.0 mm
2700-003P	1.5 mm
2700-004P	2.0 mm
2700-005P	2.5 mm
2700-006P	3.0 mm
2700-007P	3.5 mm
2700-008P	4.0 mm
2700-009P	4.5 mm
2700-010P	5.0 mm



2700-007P

Chest Tube Passer

2500-141	standard	9 3/4" (24 cm)
2500-142	w/ ratchet	9 3/4" (24 cm)
2500-143	standard	14" (35.5 cm)



2500-142

I.C.U. Tube Stripper

7 1/2" (19 cm in length)

442-876



442-876

I.C.U. Mitchell Tube Spreader

90° tip / 5 1/4" (13.5 cm)

442-877



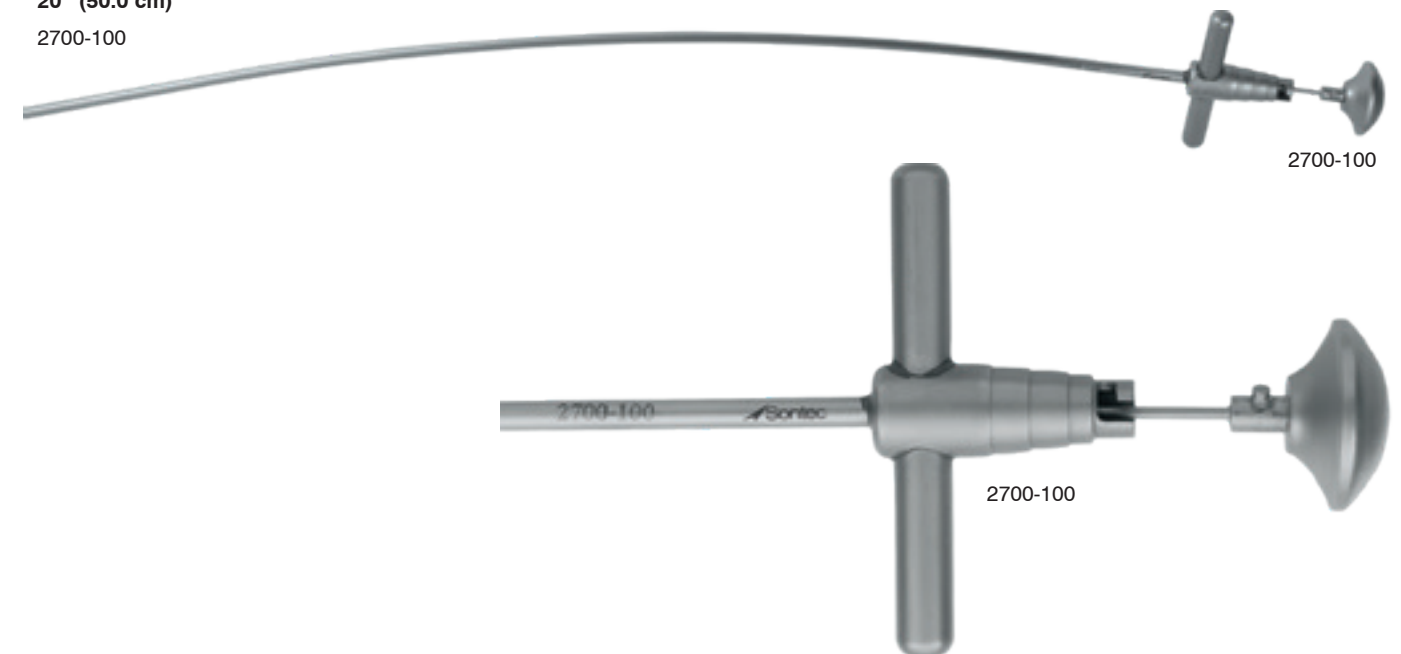
442-877

side view

Tunneler

1.5" (3.5 cm) handle /
20" (50.0 cm)

2700-100

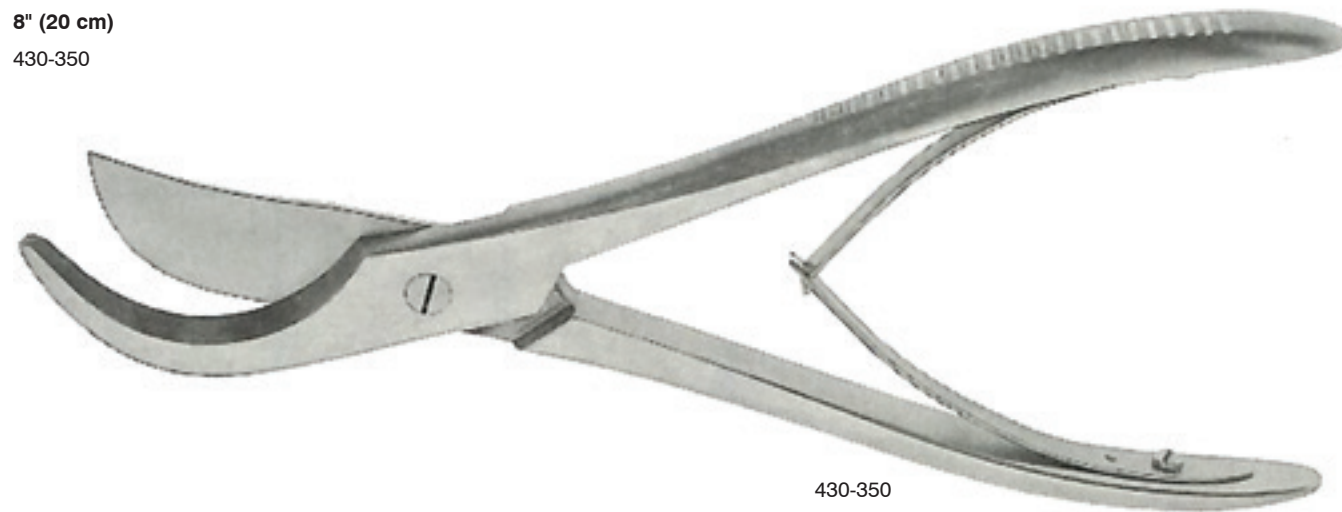


2700-100

2700-100

Plain Rib Shears

8" (20 cm)
430-350



Gluck Rib Shears

8" (20 cm)
430-352



Sauerbruch Rib Shears

10 1/2" (26.7 cm)
430-354



Stille Giertz Rib Shears

8" (20 cm)
430-356



Bethune Rib Shears

14" (35.5 cm)
430-358



Bethune-Coryllos Rib Shears

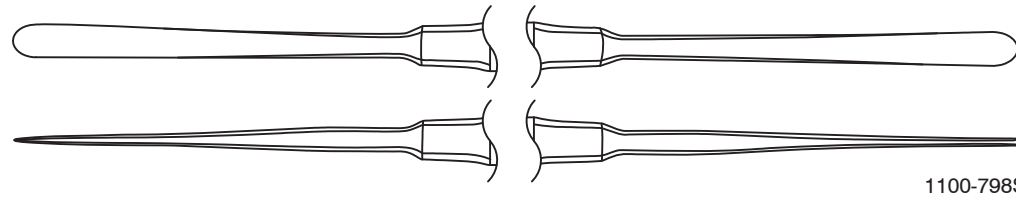
14" (35.5 cm)
430-360 left
430-362 right



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

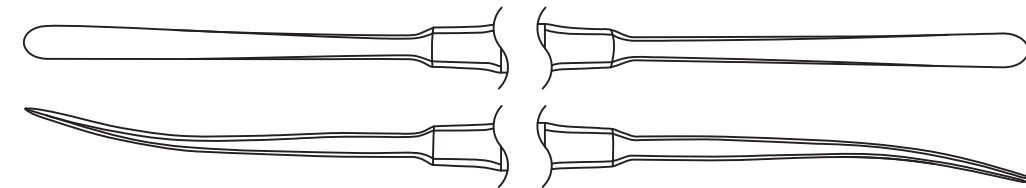
1100-798 7 3/4"

1100-798G 8 1/2"

1100-798F 8 3/4"



1100-798



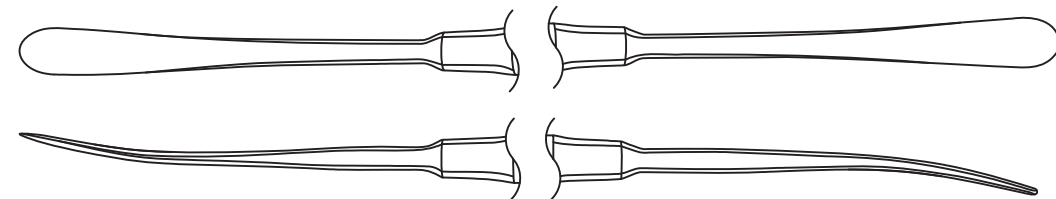
Double-ended / square handle / curved /
6.5 mm tip / sharp/blunt

1100-798A 7 3/4"

1100-798E 8 3/4"



1100-798A



Freer Periosteal Elevator

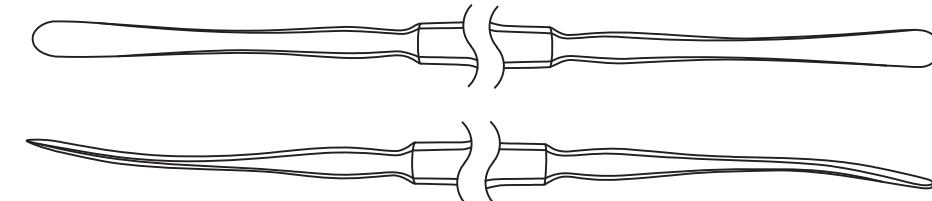
Double-ended / round handle / curved /
sharp/blunt / 7 1/2"

1100-798B 5 mm tip

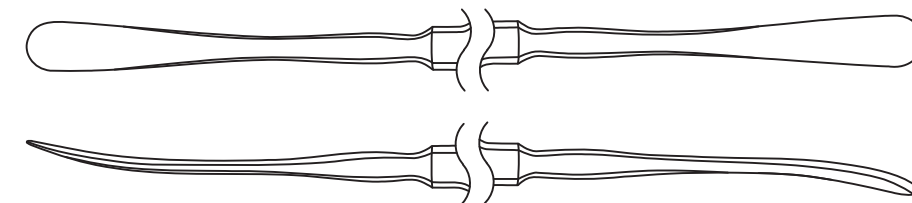
1100-798C 6.7 mm tip



1100-798B



1100-798C

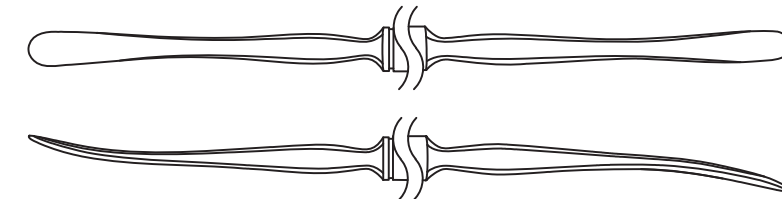


Double-ended / knurled round handle /
curved / 4.5 mm tip / sharp/blunt / 6 3/4"

1100-798D

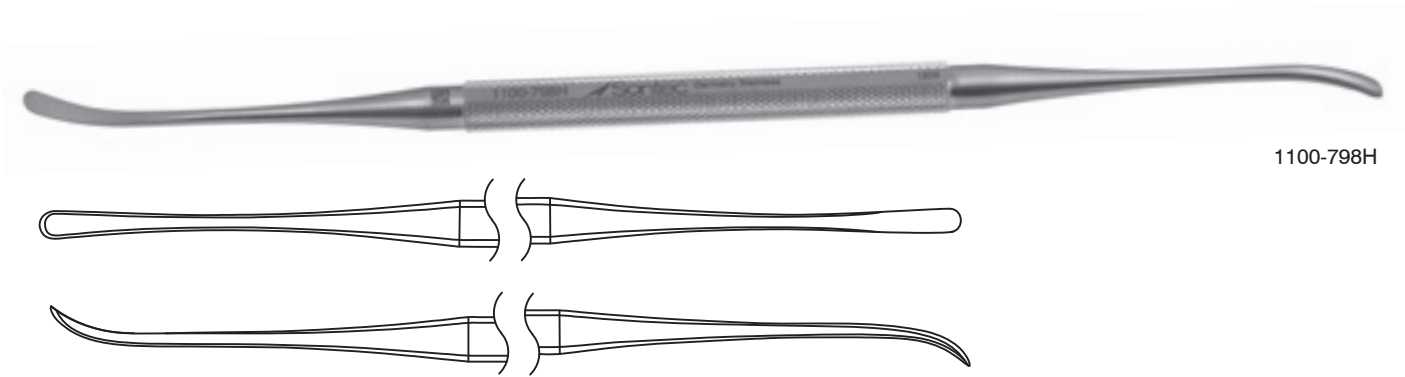


1100-798D



Freer Periosteal Elevator

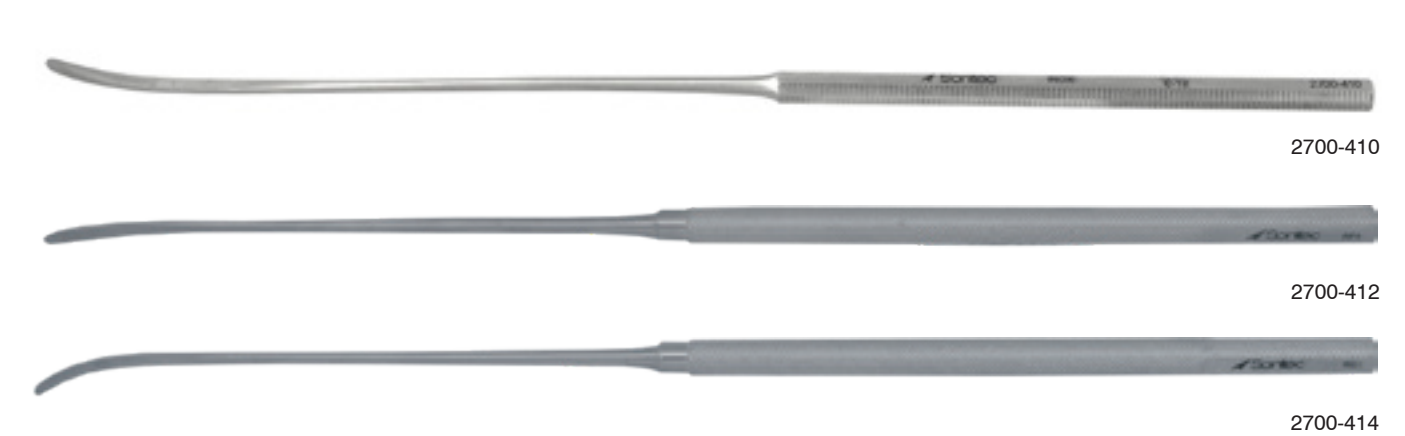
Double-ended / round handle / curved / 3.5 mm tip
/ sharp / 7 1/4"
1100-798H



Yasargil Raspatory Probe Set

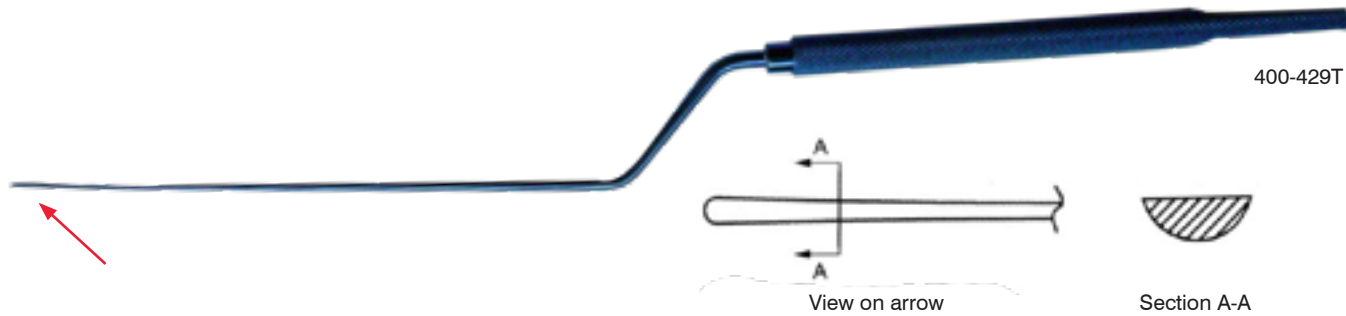
Single-ended / 7 1/4" (18.5 cm)
2700-412 slight curve
2700-414 full curve
2700-416 angled
2700-424 double angle
2700-426 dissector

Single-ended / 9" (22.9 cm)
2700-410 slight curve



Yasargil Bayonet Elevator Titanium

Straight oval tip (2.75mm wide) / 8 7/8" (22 cm)
400-429T



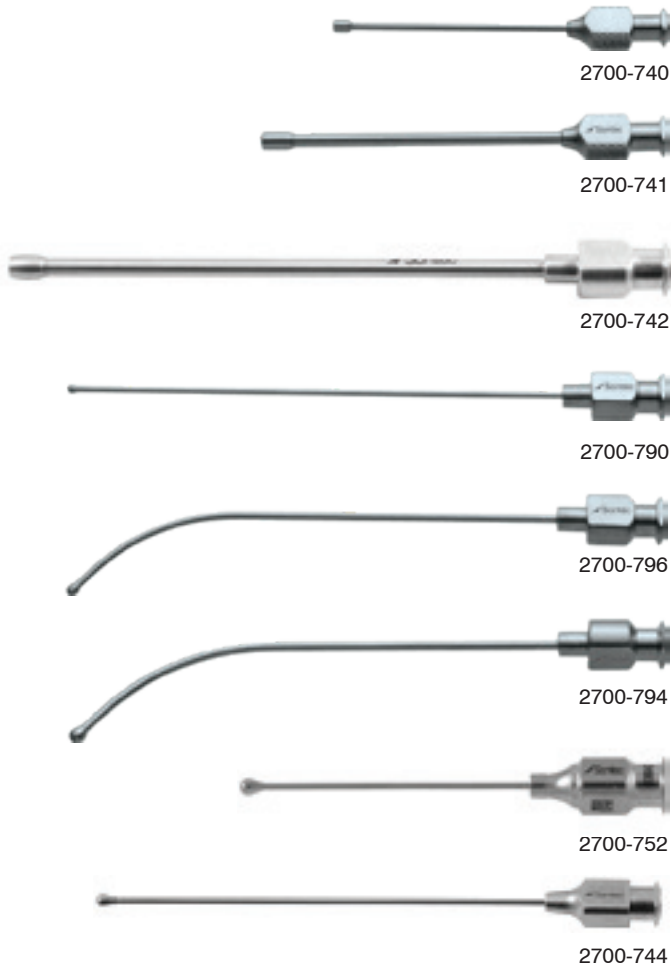
Heparin-Needle Cannula

Heparin

2700-740	3.0 mm	1 3/4"
2700-741	3.7 mm	2 1/8"
2700-742	4.0 mm	3 1/2"

Irrigation/Injection / olive tip

2700-790	straight	1.2 mm	3"
2700-792	straight	1.5 mm	3"
2700-794	curved	1.2 mm	3"
2700-796	curved	1.5 mm	3"
2700-752	straight	2.2 mm	2"
2700-744	straight	2.4 mm	2"
2700-754	straight	2.1 mm	2"
2700-755	straight	2.4 mm	3"



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)



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

1100-7411



Wide Barrel Grip Knife Handle #3

Round knurled / straight / 5" (12.7 cm)

117-577

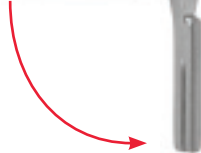
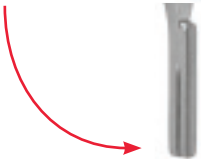


Universal Adjustable Angle Knife Handle #3

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



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



Sontec Knife Handle #3XXL

16" (40.6 cm)

1100-8681



Knife Handle #3KL

Round handle / 6" (15.2 mm)

117-564



117-564

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

117-559



117-559

Collett Chuck for Knife Handle

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



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



117-576

Round handle angled

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



117-576A

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



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 |



Sontec Nerve Hook Titanium

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 |



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



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	sharp



400-461T



400-462T



400-463T



400-464T

Carpentier Vascular Hook Titanium

9 1/2" (24 cm)

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



2700-432

Buie Fistula Probe

Sterling silver shaft / 5 3/8" (13.5 cm)

508-536	
508-538	heavy



508-536

Barr Fistula Probe

11" (28 cm)

508-542	w/ eye at tip
508-543	



508-543

Barr Double Ended Probe

Double-ended / 7" (18 cm)

508-547



508-547

Jacobson Hook Probe

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

- 413-019S stainless steel
- 413-019 titanium



Jacobson Button End Probe

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

- 413-015S stainless steel
- 413-015 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)

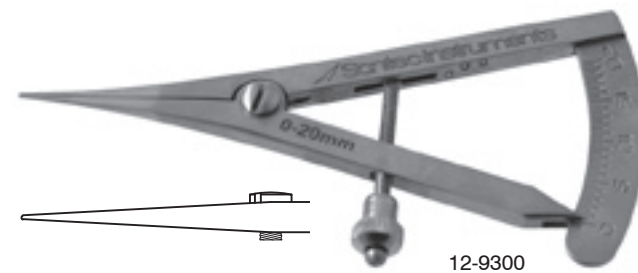
- 413-017S stainless steel
- 413-017 titanium



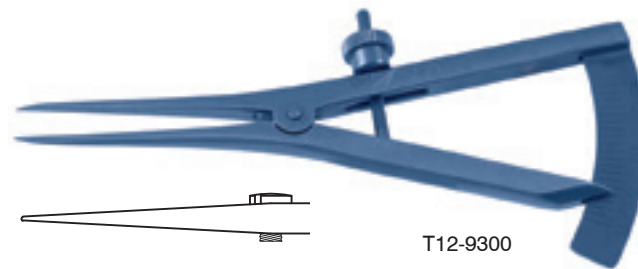
Castroviejo Caliper

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

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



12-9300



T12-9300



12-9200



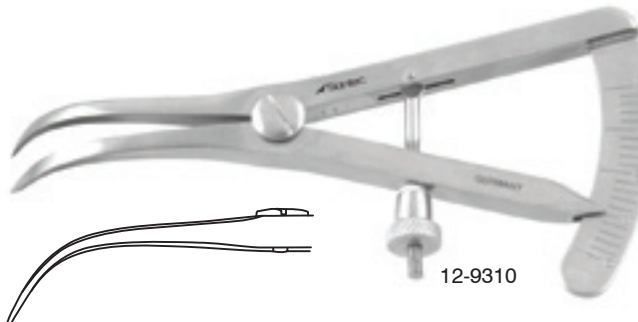
12-9300D



12-9305



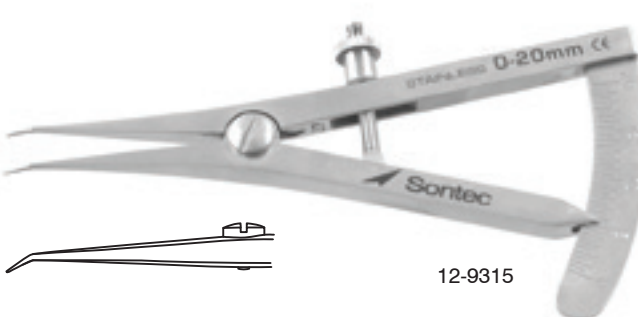
12-9310D



12-9310



12-9316

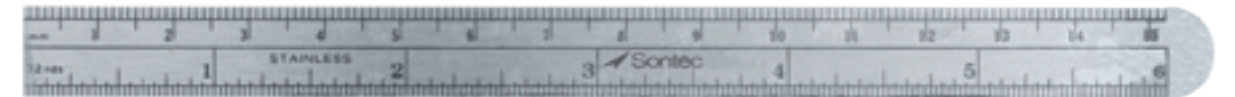


12-9315

Flexible Stainless Ruler

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

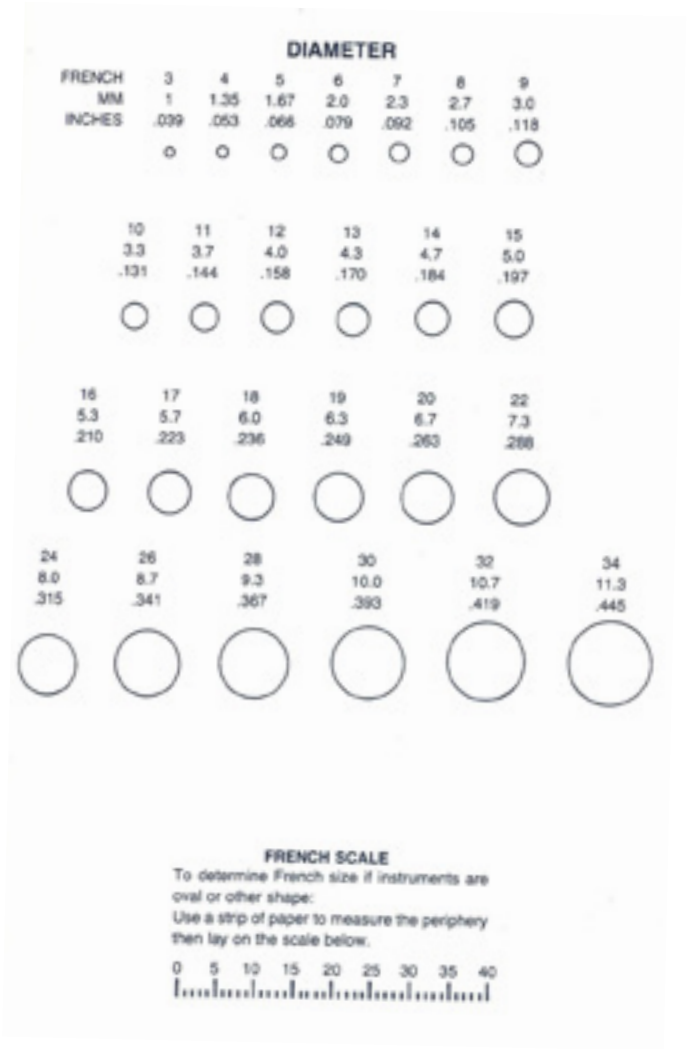
12-9500



12-9500

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

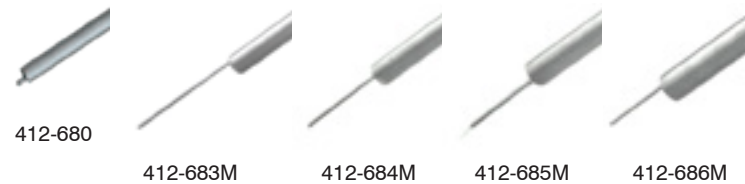
9" (23 cm)

412-705 10 french



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

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



Fukushima Suction

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

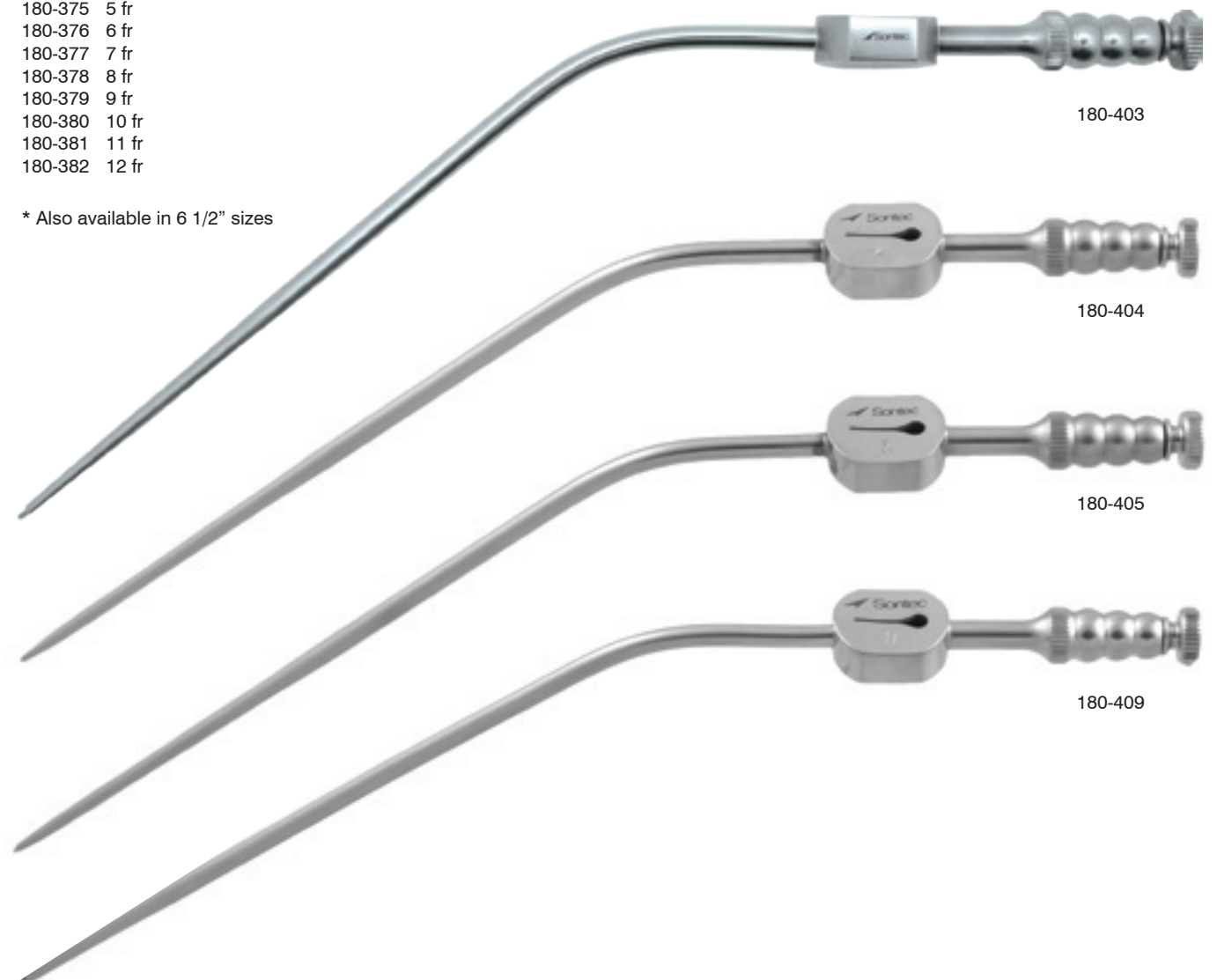
180-403 3 fr
180-404 4 fr
180-405 5 fr
180-406 6 fr
180-407 7 fr
180-408 8 fr
180-409 9 fr
180-410 10 fr
180-411 11 fr
180-412 12 fr



Tapered tube shaft / teardrop finger
control / 8" (20.5 cm) working length

180-373 3 fr
180-374 4 fr
180-375 5 fr
180-376 6 fr
180-377 7 fr
180-378 8 fr
180-379 9 fr
180-380 10 fr
180-381 11 fr
180-382 12 fr

* Also available in 6 1/2" sizes



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

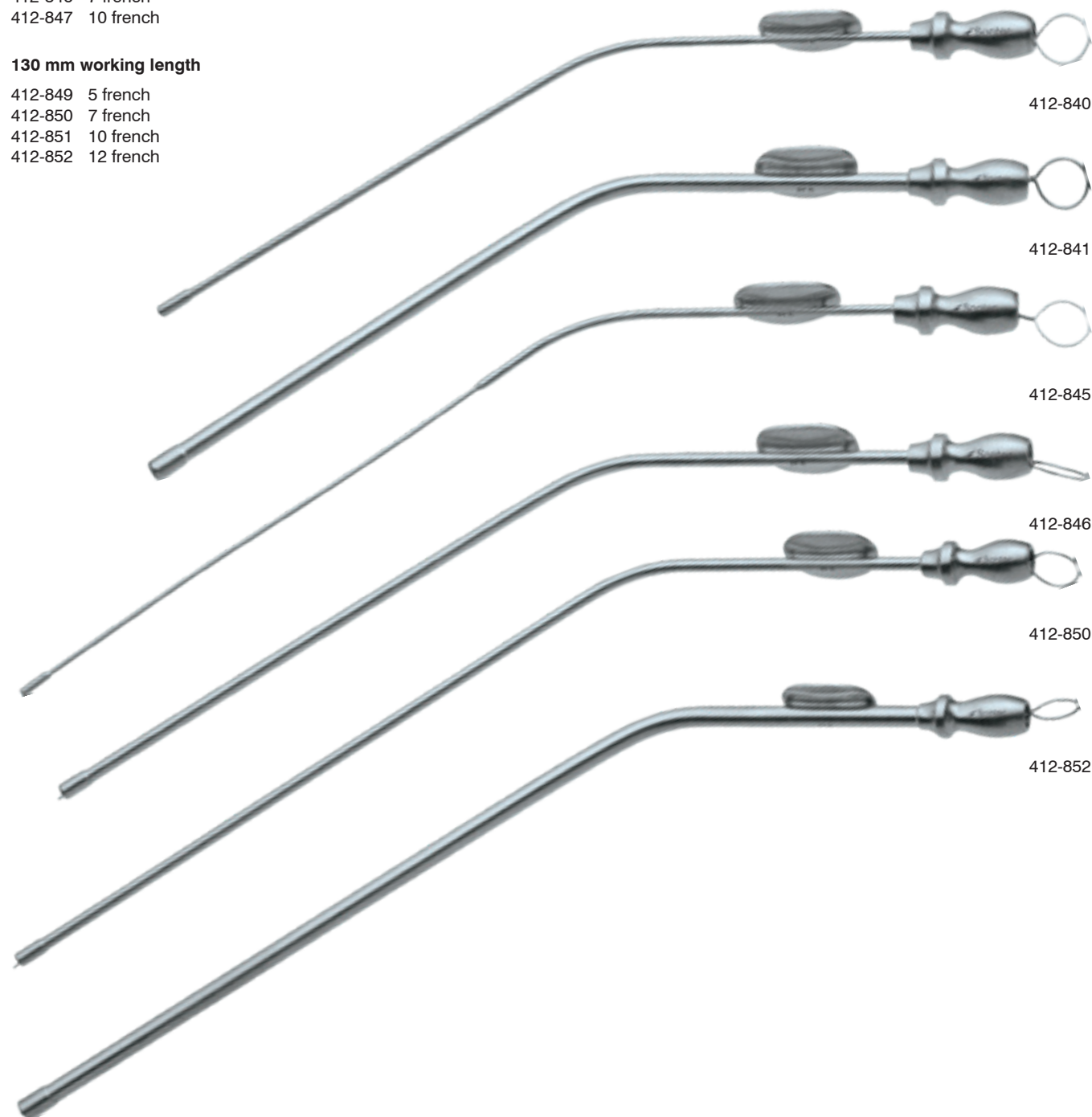
3 french 5 french 7 french 10 french 12 french

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



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



Pitanguy Elevator With Suction

Blunt / 8" (20 cm)

475-855



475-855

Haraldsson Elevator with Suction

Distal tube connection swivels / 7 1/2" (19 cm)

478-360



478-360

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

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



180-433

Papavero Cannula Suction

Angled / 7" (18 cm)

412-671 8 french



412-671

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



2700-394



2700-392



2700-390

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"



long
fluted



short
fluted



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"

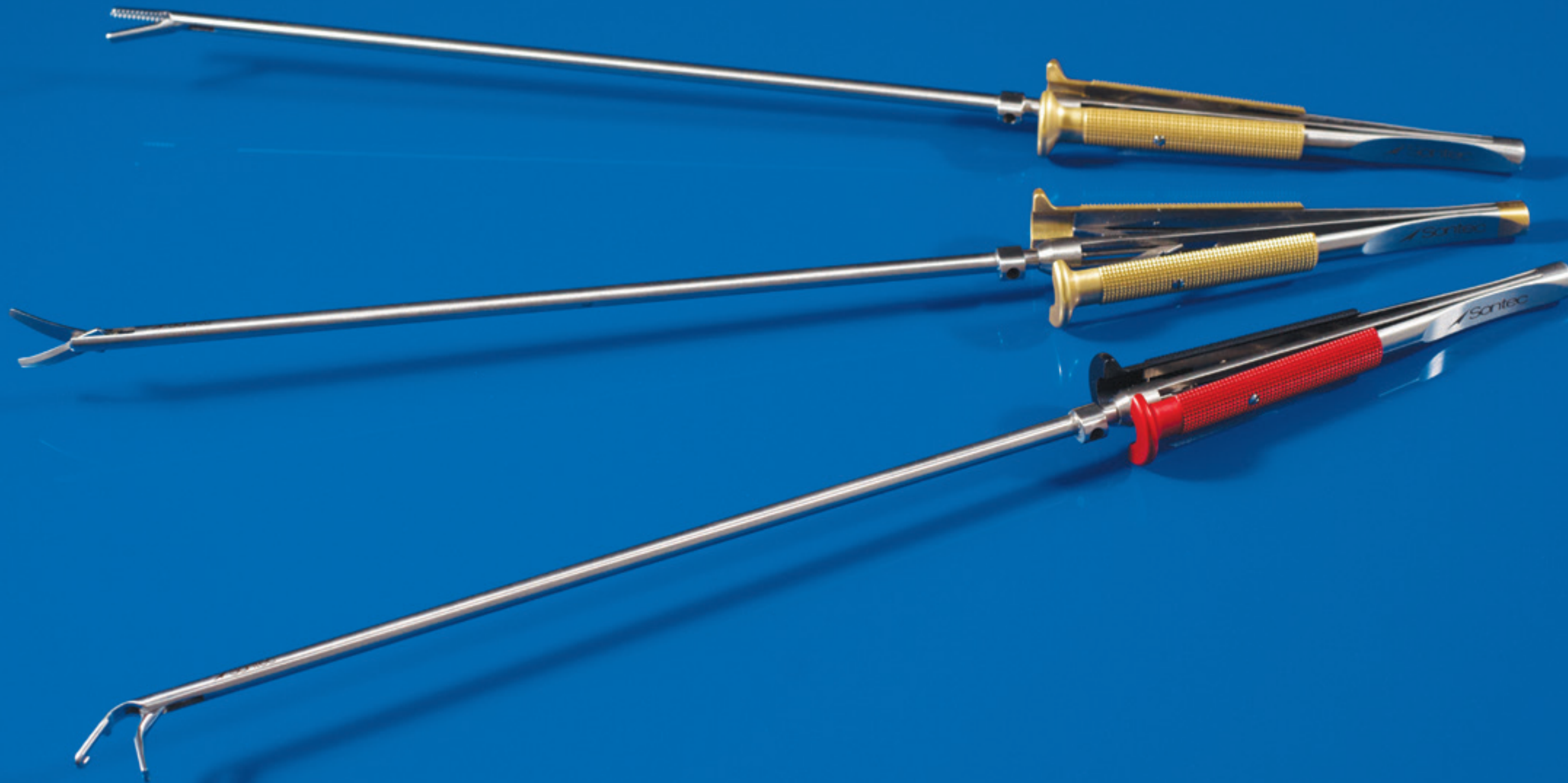


Sontec Micro Pediatric Suction

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"





 Sontec Instruments®

M.I.S.

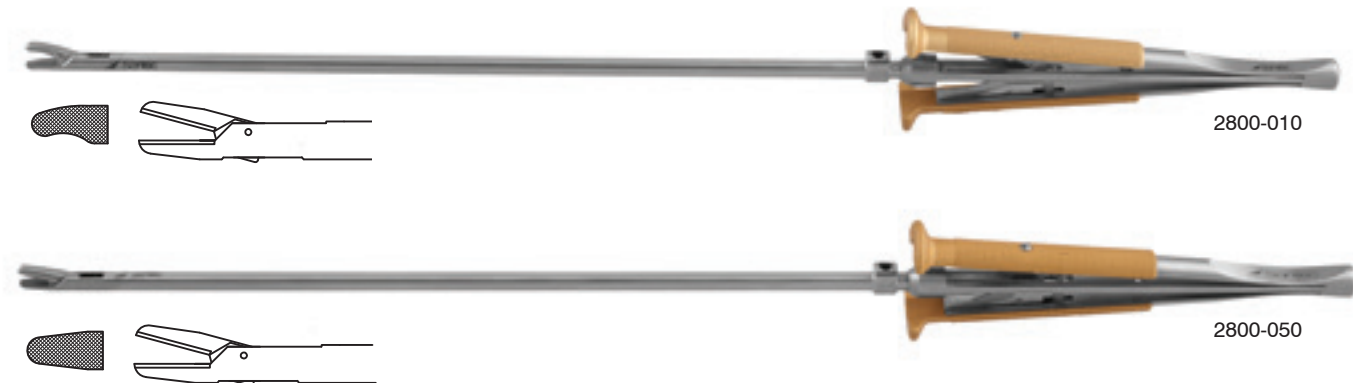
HL Crile Wood Needle Holder

TC straight / with lock / 5 mm Ø shaft

2800-050	23.5 cm	working length
2800-050S	17.8 cm	working length
2800-050L	28.7 cm	working length

TC curved / with lock / 5 mm Ø shaft

2800-010	23.5 cm	working length
2800-010S	17.8 cm	working length
2800-010L	28.7 cm	working length



HL Colvin Needle Holder

TC straight / with lock / 5 mm Ø shaft

2800-040	23.5 cm	working length
2800-040S	17.8 cm	working length
2800-040L	28.7 cm	working length

TC curved / with lock / 5 mm Ø shaft

2800-042	23.5 cm	working length
2800-042S	17.8 cm	working length
2800-042L	28.7 cm	working length



HL Ryder Needle Holder

TC Ryder jaw / with lock / 5 mm Ø shaft

2800-020	23.5 cm	working length
2800-020S	17.8 cm	working length
2800-020L	28.7 cm	working length

TC Ryder jaw / with lock / fine 3 mm Ø shaft

2800-021	22.9 cm	working length
2800-021S	17.8 cm	working length
2800-021L	28.7 cm	working length



HL Mini Needle Holder

TC curved mini jaw / with lock / fine 3.4mm Ø shaft

2800-015	23.1 cm	working length
2800-015S	17.4 cm	working length
2800-015L	28.3 cm	working length

TC straight mini jaw / with lock / fine 3.4mm Ø shaft

2800-017	23.1 cm	working length
2800-017S	17.4 cm	working length
2800-017L	28.3 cm	working length



HL Straight Needle Holder

TC dust jaws / with lock / 5 mm Ø shaft

2800-030	23.5 cm	working length
2800-030S	17.8 cm	working length
2800-030L	28.7 cm	working length



HL Curved Needle Holder

TC dust jaws / with lock / 5 mm Ø shaft
2800-035 23.5 cm working length
2800-035S 17.8 cm working length
2800-035L 28.7 cm working length



HL Curved Needle Holder

TC dust jaws / with lock / 1.2 mm x 8.5 mm tip
2800-025 18 cm working length



HL Mayo Hegar Heavy Needle Holder

TC / heavy / straight / with lock / 5 mm Ø shaft
2800-060 23.5 cm working length
2800-060S 17.8 cm working length
2800-060L 28.7 cm working length

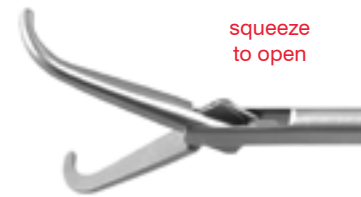
TC / heavy / curved / with lock / 5 mm Ø shaft
2800-061 23.5 cm working length
2800-061S 17.8 cm working length
2800-061L 28.7 cm working length



HL Gemini Dissection Forceps

Reverse action / spreading jaw / squeeze to open jaws / 5 mm Ø shaft

2800-7828	23.8 cm working length
2800-7828S	20.3 cm working length
2800-7828L	30.8 cm working length



2800-7828

HL Ring Tip Forceps

1 mm TC dust ring tip with tying platform / straight / 5 mm Ø shaft

2800-7829	22.7 cm working length
2800-7829S	17.2 cm working length
2800-7829L	27.7 cm working length



2800-7829



HL Mini IMA Holding Forceps

1x2 teeth / angle up / TC dust / fine 3 mm Ø shaft

2800-7830	25.3 cm working length
2800-7830S	19.8 cm working length
2800-7830L	30.3 cm working length



2800-7830



HL Resano Grasper Forceps

Strong jaws / for valves / 5 mm Ø shaft

2800-330	24.2 cm	working length
2800-330S	18.7 cm	working length
2800-330L	29.2 cm	working length



2800-330



HL Russian Grasper Forceps

5 mm Ø shaft

2800-332	24.9 cm	working length
2800-332S	19.4 cm	working length
2800-332L	29.9 cm	working length



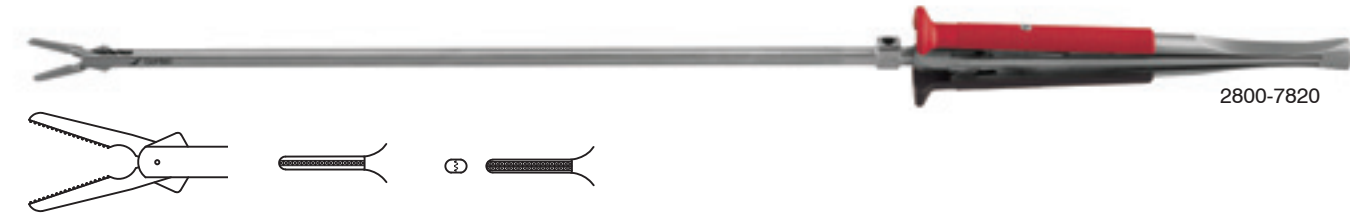
2800-332



HL Debakey Grasper

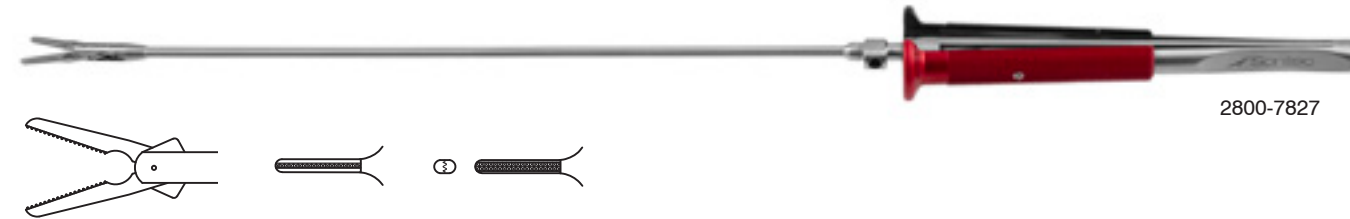
Small thin jaw / straight / 1 x 2 AG / 1.7 mm x 11 mm jaw / 5 mm Ø shaft

2800-7820	23.8 cm	working length
2800-7820S	18.3 cm	working length
2800-7820L	28.8 cm	working length



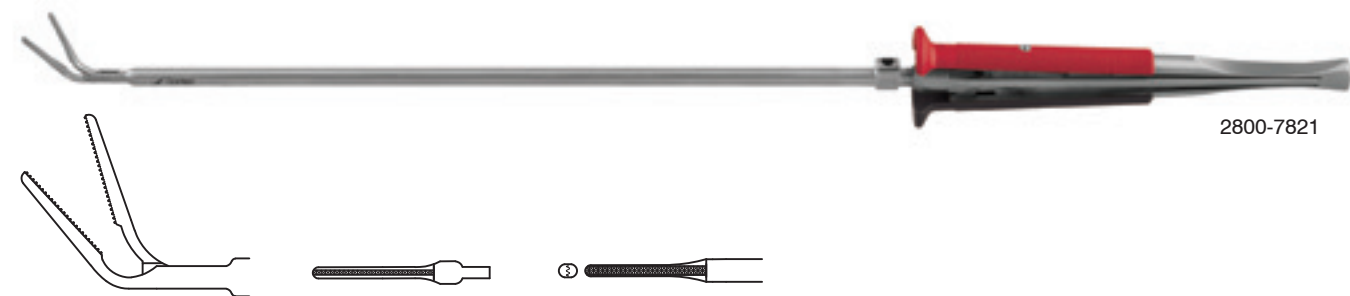
Small thin jaw / straight / 1 x 2 AG / 1.7 mm x 11 mm jaw / fine 3 mm Ø shaft

2800-7827	25.4 cm	working length
2800-7827S	19.9 cm	working length
2800-7827L	30.4 cm	working length



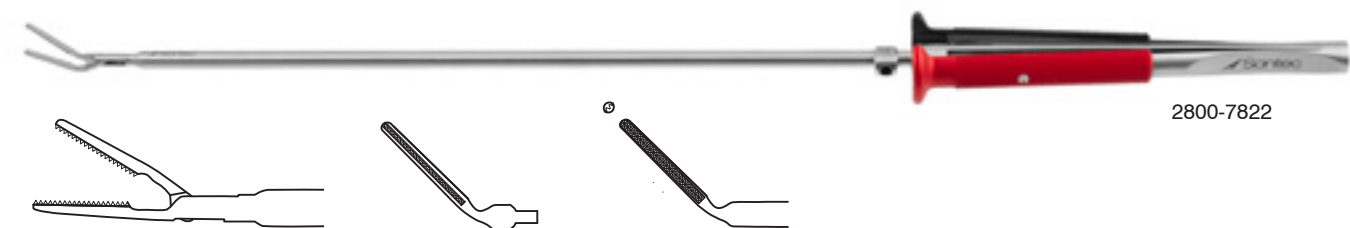
Thin jaw / curved up / 1 x 2 AG / 1.5 mm x 15 mm jaw / 5 mm Ø shaft

2800-7821	24 cm	working length
2800-7821S	18.5 cm	working length
2800-7821L	29 cm	working length



Thin jaw / curved to side / 1 x 2 AG / 1.5 mm x 15 mm jaw / 5 mm Ø shaft

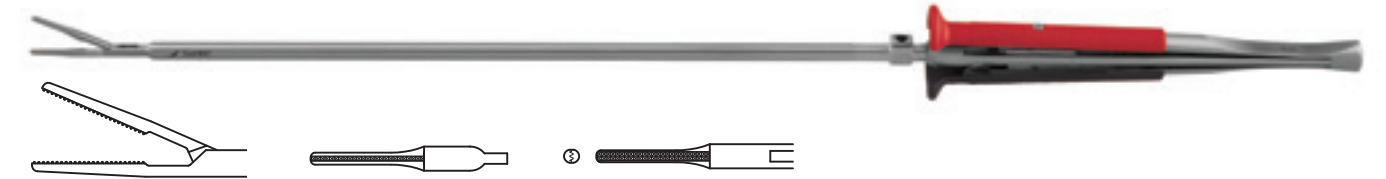
2800-7822	24 cm	working length
2800-7822S	18.5 cm	working length
2800-7822L	29 cm	working length



HL Debakey Grasper

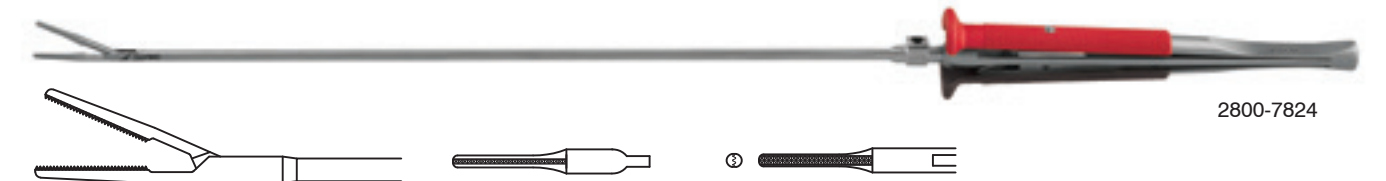
Long thin jaw / straight / 1 x 2 AG / 1.5 mm x 23 mm jaw / 5 mm Ø shaft

2800-7823	24.6 cm	working length
2800-7823S	19.1 cm	working length
2800-7823L	29.6 cm	working length



Long thin jaw / straight / 1 x 2 AG / 1.5 mm x 23 mm jaw / fine 3 mm Ø shaft

2800-7824	26.2 cm	working length
2800-7824S	20.7 cm	working length
2800-7824L	31.2 cm	working length



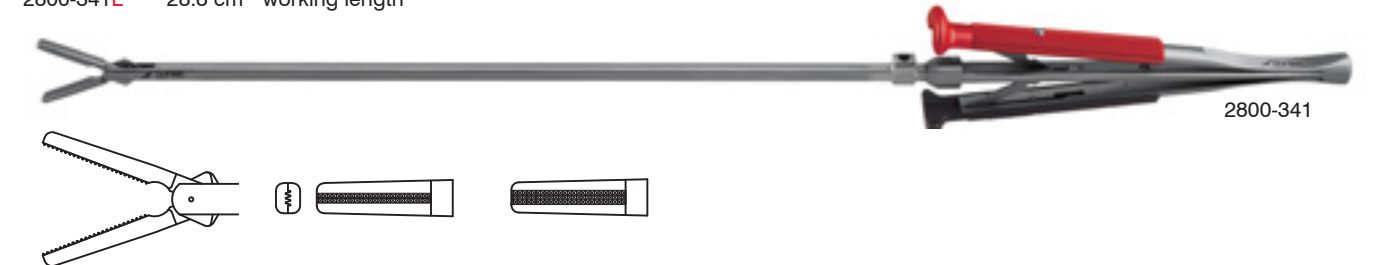
Wide jaw / straight / 1 x 2 AG / 2.8 mm x 15 mm jaw / 5 mm Ø shaft

2800-340	23.8 cm	working length
2800-340S	18.3 cm	working length
2800-340L	28.8 cm	working length



Extra wide jaw / straight / 2 x 3 AG / 4 mm x 18 mm jaw / 5 mm Ø shaft

2800-341	23.8 cm	working length
2800-341S	18.3 cm	working length
2800-341L	28.8 cm	working length



TC / dual use / tissue and suture grasping / 5 mm Ø shaft

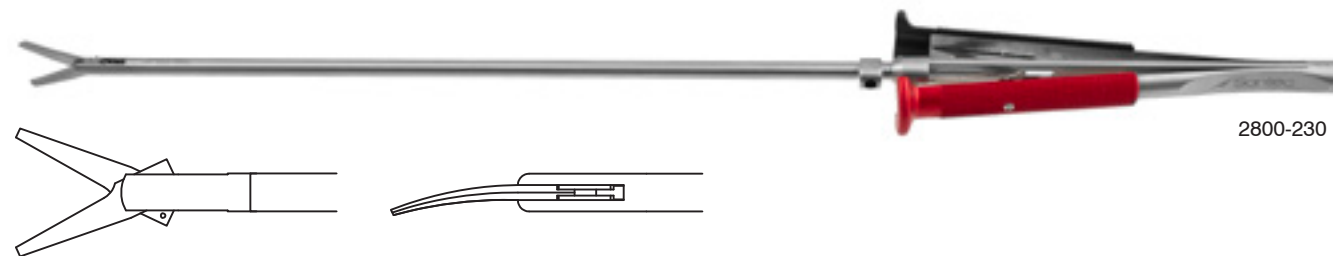
2800-7819	23.8 cm	working length
2800-7819S	18.3 cm	working length
2800-7819L	28.8 cm	working length



HL Curved Cooley Scissors 15°

15° curve / 5 mm Ø shaft

2800-230 24.3 cm working length
 2800-230S 19 cm working length
 2800-230L 29.9 cm working length



2800-230

Tungsten carbide / 15° curve / 5 mm Ø shaft

2800-248 24.3 cm working length
 2800-248S 19 cm working length
 2800-248L 29.3 cm working length



2800-248

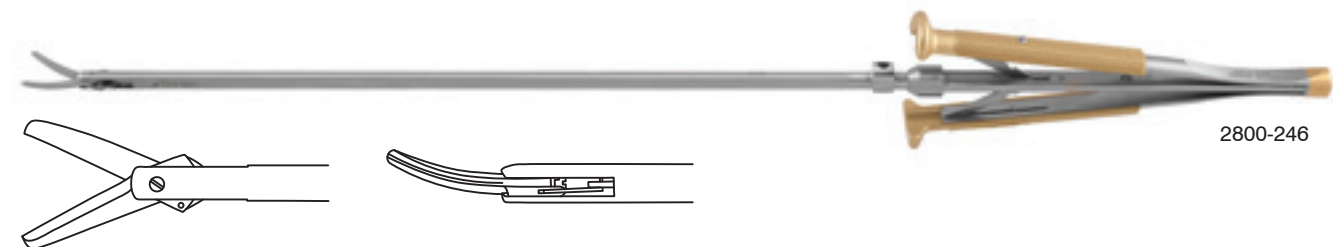


2800-248

HL Curved Cooley Scissors 30°

Tungsten carbide / 30° curve / 5 mm Ø shaft

2800-246 24.2 cm working length
 2800-246S 18.9 cm working length
 2800-246L 29.2 cm working length

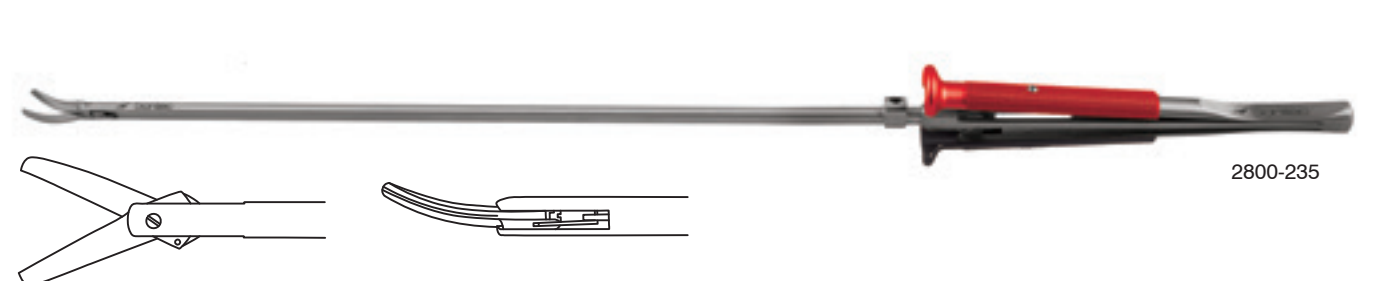


2800-246

HL Curved Cooley Scissors 30°

30° curve / 5 mm Ø shaft

2800-235 23.5 cm working length
 2800-235S 17 cm working length
 2800-235L 28 cm working length



2800-235

Mini 30° curve / blunt tip / 12 mm blade / fine 3 mm Ø shaft

2800-236 23.5 cm working length
 2800-236S 17 cm working length
 2800-236L 28 cm working length

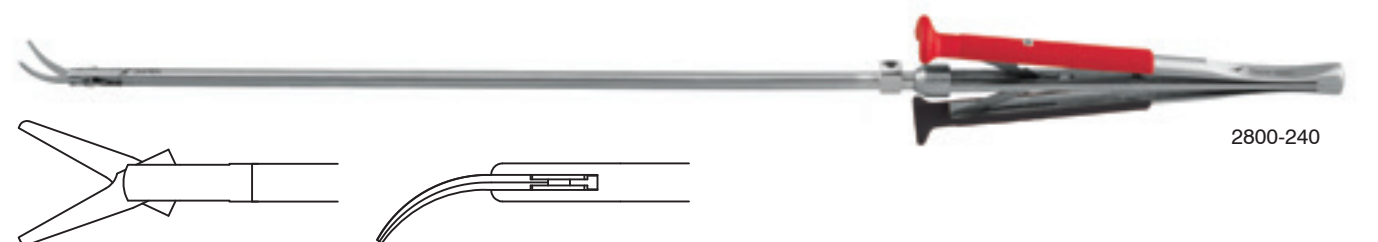


2800-236

HL Curved Cooley Scissors 70°

70° curve / 5 mm Ø shaft

2800-240 23.5 cm working length
 2800-240S 17 cm working length
 2800-240L 28 cm working length



2800-240

HL Potts Vascular Scissors

45° / 13.5 mm blade / fine 3.5 mm Ø shaft

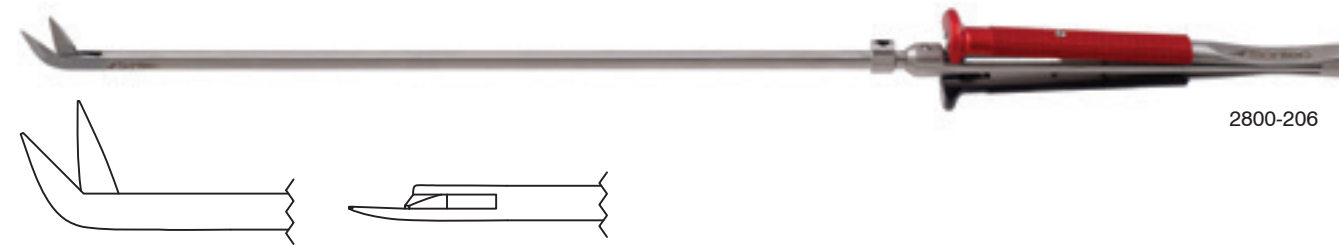
2800-205	22.5 cm	working length
2800-205S	16.7 cm	working length
2800-205L	27.5 cm	working length



2800-205

45° / 12 mm blade / 5 mm Ø shaft

2800-206	22.5 cm	working length
2800-206S	16.7 cm	working length
2800-206L	27.5 cm	working length



2800-206

90° / 11 mm blade / 5 mm Ø shaft

2800-208	21.9 cm	working length
2800-208S	16.7 cm	working length
2800-208L	26.9 cm	working length



2800-208

HL Potts Vascular Scissors

125° / 11 mm blade / fine 3.5 mm Ø shaft

2800-210	21.9 cm	working length
2800-210S	16.7 cm	working length
2800-210L	26.9 cm	working length



2800-210

Mini 125° / 8 mm blades / fine 3 mm Ø shaft

2800-211	24.3 cm	working length
2800-211S	18.8 cm	working length
2800-211L	29.3 cm	working length



2800-211

HL Jameson Tenotomy Scissors

Curved / 5 mm Ø shaft

2800-7831	24.4 cm	working length
2800-7831S	19.1 cm	working length
2800-7831L	29.4 cm	working length



2800-7831

HL Vessel Hook

Blunt / 13 3/4" (35 cm)
2800-7484



HL Nerve Hook

2800-7485 13 3/4" (35 cm)
2800-7487 16 3/4" (43 cm)



HL Ball Point Probe

13 3/4" (35 cm)
2800-7486



HL Scalpel Blade Holder

5 mm / 14 3/4" (37.5 cm)
2800-7488



HL Cardioplegia Needle

2800-7490 2 mm 12 1/5" (31.2 cm)
2800-7493 3.5 mm 12 1/2" (31.8 cm)



HL Magnetic Probe

13 3/4" (35 cm)
2800-7480



Heartline Mini Suture Catcher

13" (33 cm)
2800-7477



Heartline Suture Catcher Hook

13 3/4" (35 cm)
2800-7475



Heartline Knot Pusher Forceps

Hook & wedge / 5 mm Ø shaft

2800-405 24 cm working length
2800-405S 18.5 cm working length
2800-405L 29 cm working length



Mini Hook & wedge / fine 3 mm Ø shaft

2800-406 23.4 cm working length
2800-406S 17.9 cm working length
2800-406L 29 cm working length



Push to open / 5 mm Ø shaft

2800-404 25 cm working length



Horizontal angled opening / 5 mm Ø shaft

2800-407 23.5 cm working length



Heartline Static Knot Pusher

Composite Handle

2800-410 13" (33 cm)



HL MIS Retractor Frame Small

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

416-200 stainless steel
416-700 titanium



HL MIS Retractor Frame Small

416-200



HL MIS Retractor Frame Medium

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

416-201



HL Retractor Blade Standard

Standard / 40mm W x 30mm L / small

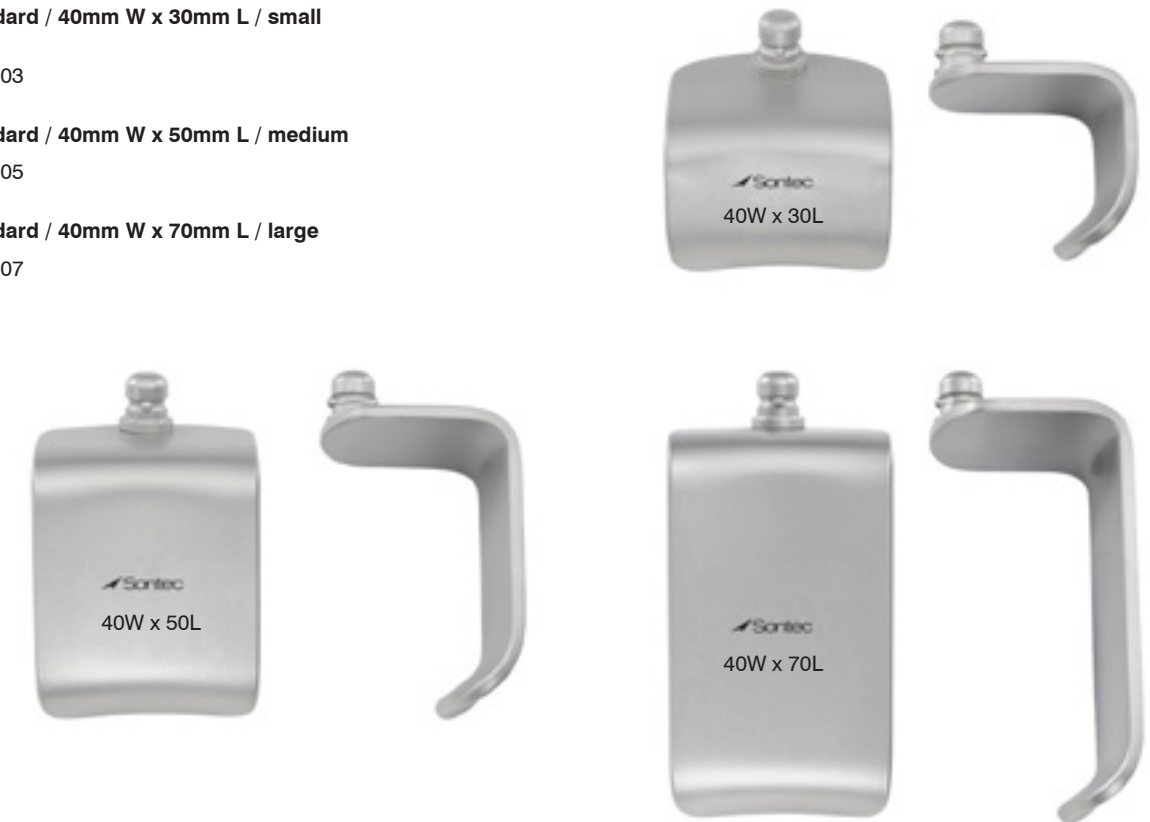
416-203

Standard / 40mm W x 50mm L / medium

416-205

Standard / 40mm W x 70mm L / large

416-207



HL Retractor Blade Robotic Slim

Robotic slim / 40mm W x 30mm L / small

416-209

Robotic slim / 40mm W x 50mm L / medium

416-211

Robotic slim / 40mm W x 70mm L / large

416-213



HL Retractor Blade Acute Angled 110°

Angled / 40mm W x 30mm L / small

416-215

Angled / 40mm W x 50mm L / medium

416-217

Angled / 40mm W x 70mm L / large

416-219



HL Retractor Blade

Angled / 60mm W x 35mm L / Large

416-221

Angled / 60mm W x 70mm L / Large

416-223

Other sizes available upon request



HL Finochietto Large Blade 416-860

a	b	c	d
35 mm	30 mm	90mm	100mm

HL Finochietto Small Blade 416-862

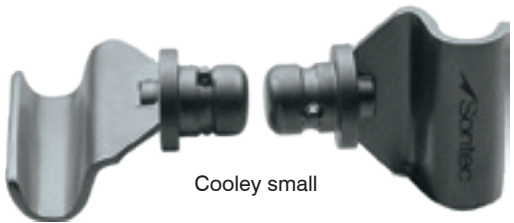
a	b	c	d
22 mm	22 mm	90 mm	100 mm

HL Cooley Small Blade 416-864

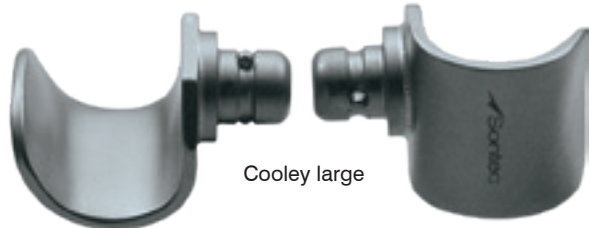
a	b	c	d
10 mm	20 mm	90mm	100mm

HL Cooley Large Blade 416-866

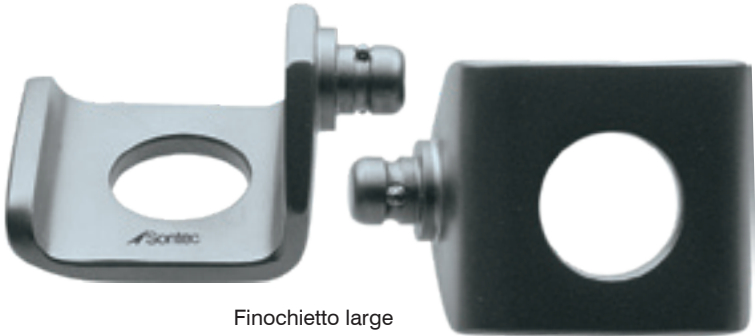
a	b	c	d
18 mm	20 mm	90 mm	100 mm



Cooley small



Cooley large

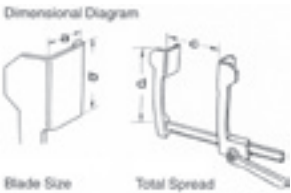


Finochietto large



Finochietto small

Accommodates any blade shape or size / double articulation / 90 mm maximum spread / 416-200 frame only

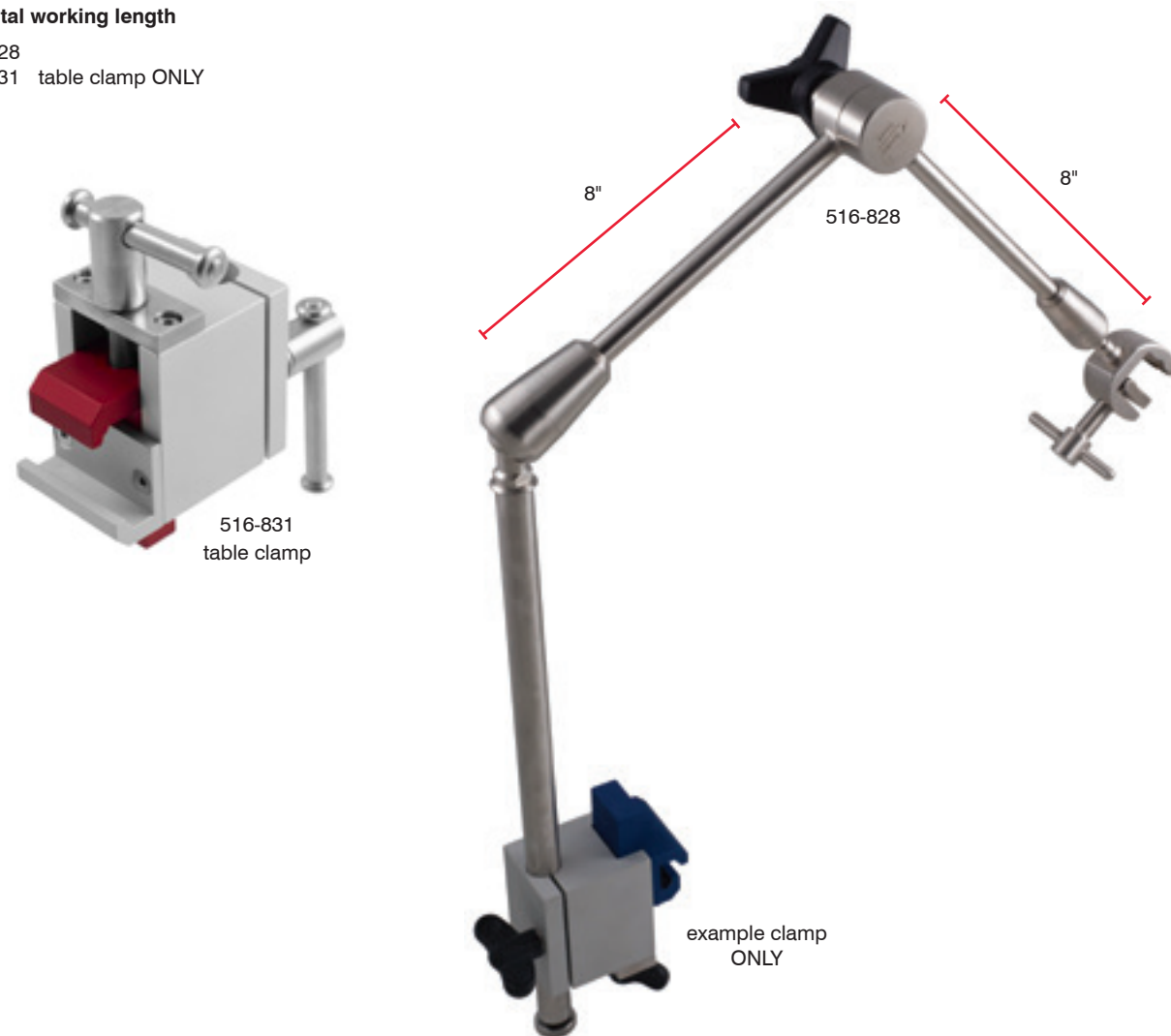


Heartline Universal Arm with Table Clamp

16" total working length

516-828

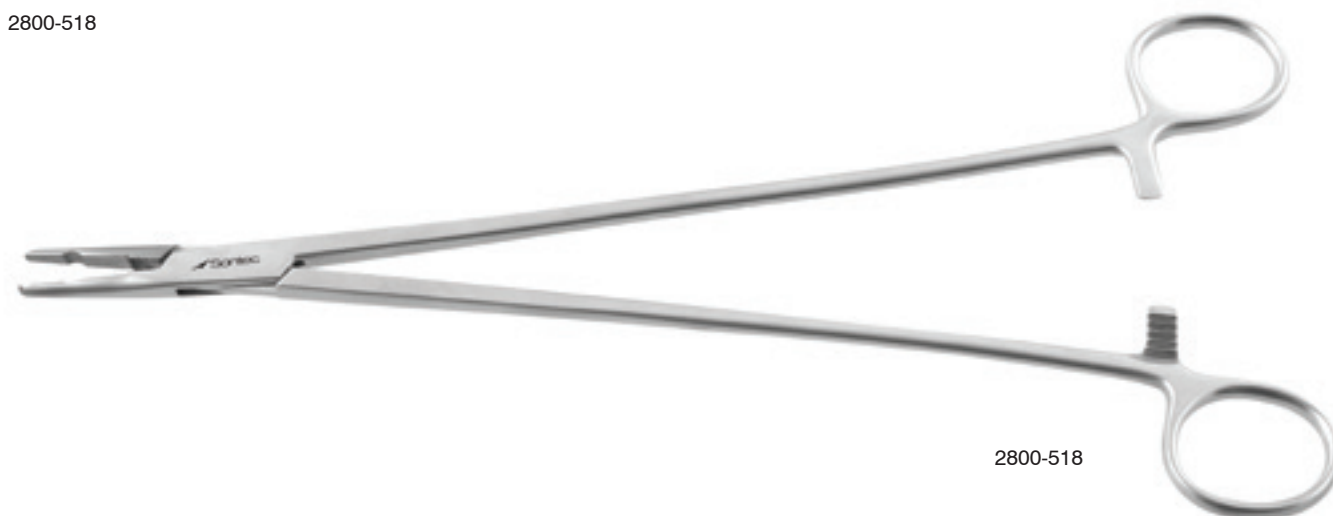
516-831 table clamp ONLY



HL Rod Holder Introducer

For atrial blade set / 10 3/4"

2800-518



HL Atrial Blade Set

2800-500 set

2800-514 Introducer shaft 6 1/4" (15.9 cm)
 2800-516 Introducer shaft 8" (20.3 cm)
 2800-518 Introducer Rod Holder (see previous page)

Blades:

2800-502 40 x 35 mm
 2800-504 50 x 35 mm
 2800-506 60 x 35 mm
 2800-508 50 x 45 mm
 2800-510 60 x 45 mm
 2800-512 70 x 45 mm



Micro Neuro Original Lightweight 5mm Ø Gauge with 9.5mm Ø Golfball Grip Bayonet Instrumentation Set

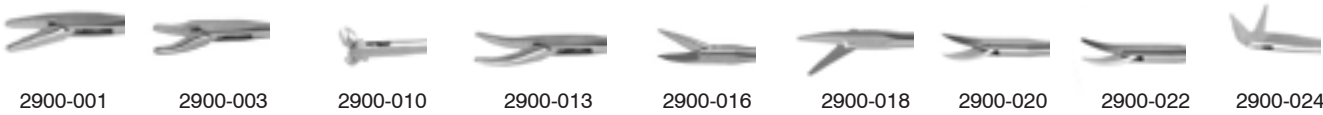
Individual items sold seperately

Tubular tapered shaft 2.7mm - 2.0mm Ø at tip / 360° rotatable shaft / squeeze handle / 10" (25.4 cm)

2900-001	needle holder	1.0 mm tip	straight
2900-003	needle holder	1.0 mm tip	curved
2900-006	biopsy forceps	2.0 mm tip	straight
2900-008	biopsy forceps	4.0 mm tip	straight
2900-010	biopsy forceps	2.0 mm tip	60°
2900-011	grasping forceps	0.5 mm tip	straight
2900-013	forceps	0.5 mm tip	curved
2900-016	scissors	pointed	straight
2900-018	scissors	blunt	straight
2900-020	scissors	pointed	curved
2900-022	scissors	blunt	curved
2900-024	scissors	blunt	45°



2900-003



2900-001 2900-003 2900-010 2900-013 2900-016 2900-018 2900-020 2900-022 2900-024

Micro Neuro 9mm Ø Large Gauge with 11.0mm Gold Knurled Grip Bayonet Instrumentation Set

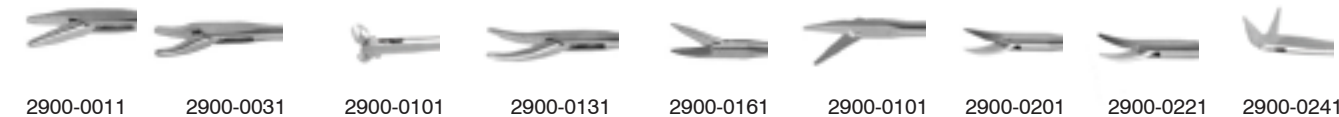
Individual items sold seperately

Tubular tapered shaft 2.7mm - 2.0mm Ø at tip / 360° rotatable shaft / squeeze handle / 10 3/4" (27.3 cm)

2900-0011	needle holder	1.0 mm tip	straight
2900-0031	needle holder	1.0 mm tip	curved
2900-0061	biopsy forceps	2.0 mm tip	straight
2900-0081	biopsy forceps	4.0 mm tip	straight
2900-0101	biopsy forceps	2.0 mm tip	60°
2900-0111	grasping forceps	0.5 mm tip	straight
2900-0131	forceps	0.5 mm tip	curved
2900-0161	scissors	pointed	straight
2900-0181	scissors	blunt	straight
2900-0201	scissors	pointed	curved
2900-0221	scissors	blunt	curved
2900-0241	scissors	blunt	45°



2900-0081



2900-0011 2900-0031 2900-0101 2900-0131 2900-0161 2900-0101 2900-0201 2900-0221 2900-0241

HL Micro Neuro Bayonet Large Gauge 9mm Ø with 11mm Ø Gold Knurled Grip Needle Holder

Shaft tapered from 2.7mm Ø to 2mm at tip with 360° rotation / squeeze handle / TC dust / 7" total working length / 13" (33 cm)

2900-002 without lock
2900-004 with lock



2900-002

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



2700-394

2700-392

2700-390

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



2700-397

2700-396

2700-395

HL Sontec Suture Ruler

14 1/4" (36.2 mm)

2800-600



2800-600

HL Sontec Suture Ruler

14 1/4" (36.2 mm)

2800-602



2800-602

HL Valve Rongeur

4.5 m shaft / 3.2 mm x 9 mm cup jaws with flush port / 12" (30.5 mm)

1271-560



1271-560

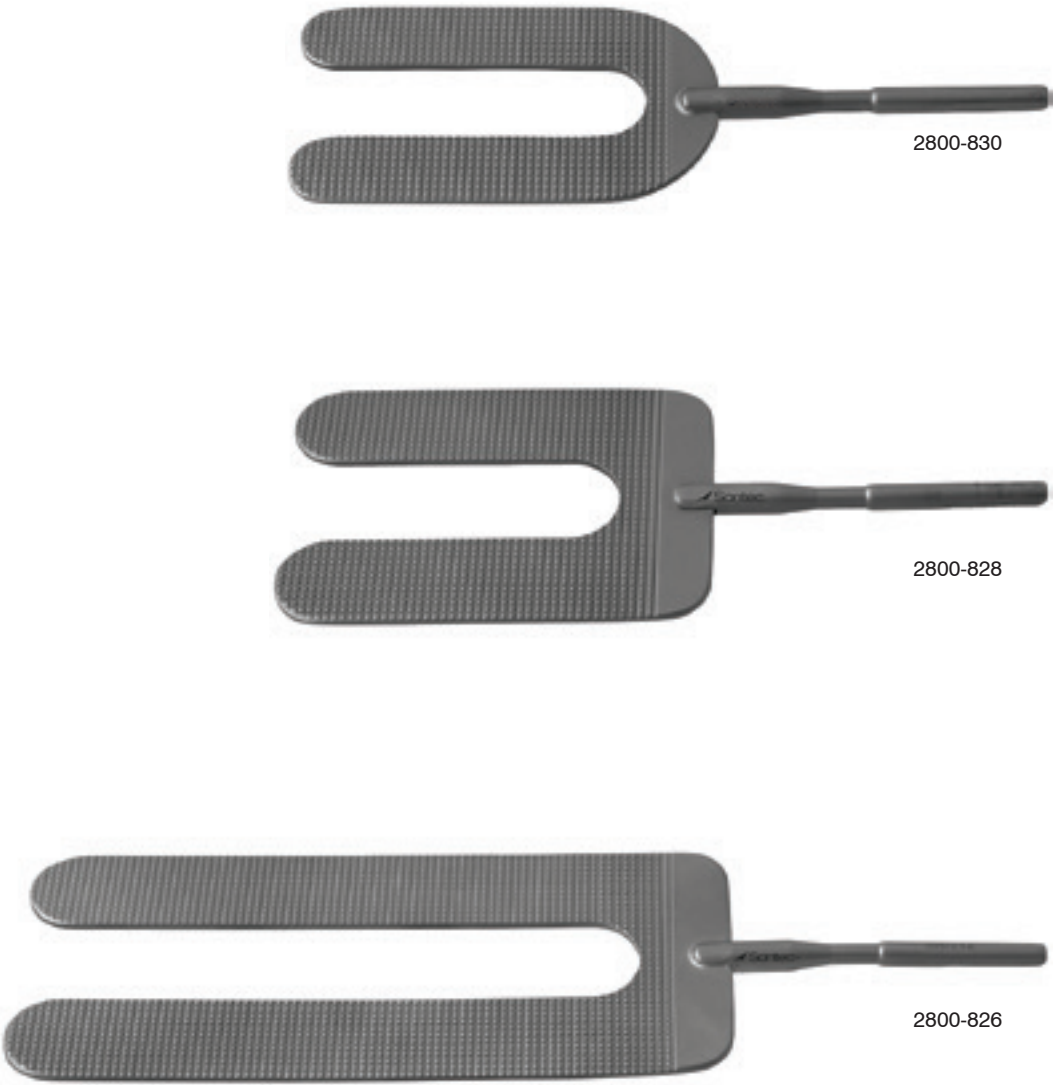
HL Retractor

With 2 inserts and 2 x Cooley Blades (30 mm deep) / 18 cm spread
2800-800-SET



HL Heart Stabilizer Finger Attachment

- 2800-826 2L two long fingers
- 2800-828 2S two short fingers
- 2800-830 2SS two short fingers



Heartline Stabilizer Arm

2800-810	170 mm working length	with titanium links
2800-810T	170 mm working length	
2800-810L	190 mm working length	



2800-810



2800-810T



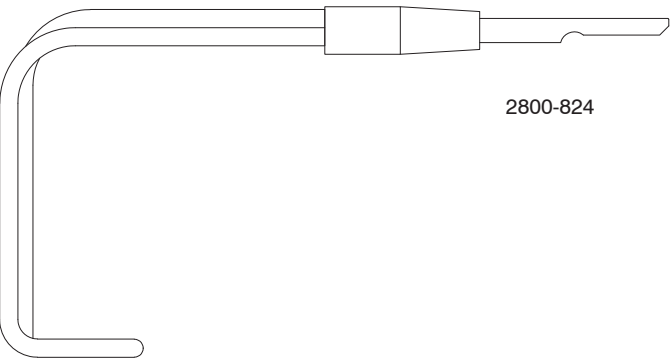
2800-810L

HL Retractor Atrial Rakes

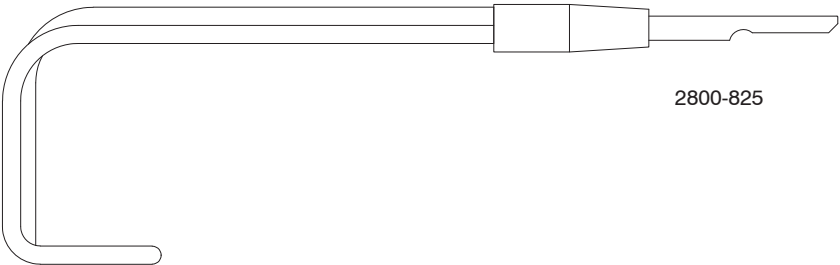
	A	B	C
2800-824	46 mm	37 mm	43 mm
2800-825	34 mm	39 mm	65 mm



2800-824



2800-825





 Sontec Instruments®

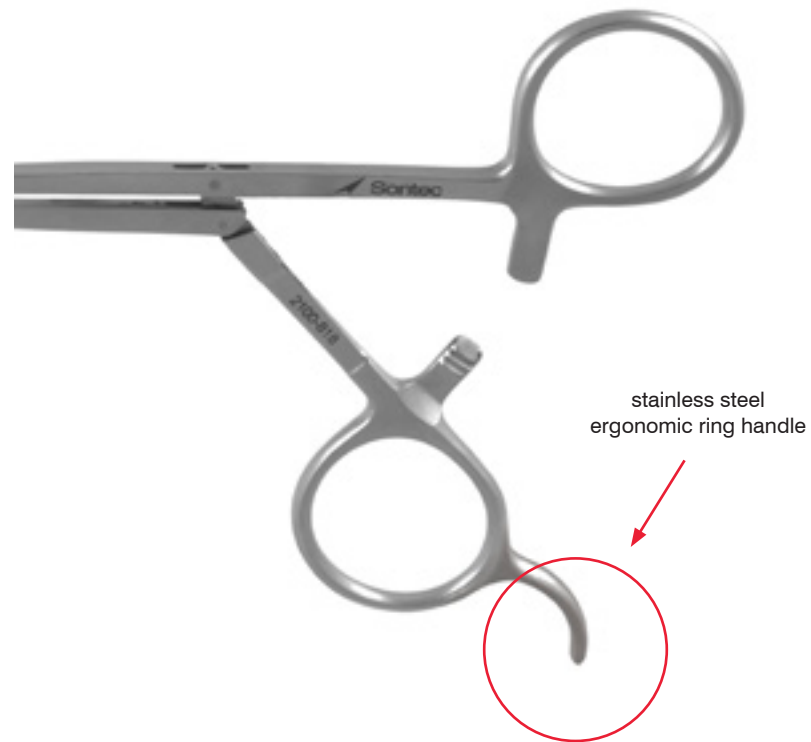
V.A.T.S.

V.A.T.S. Ring Handle Ratchet Designs

Please verify at the time of ordering which style is preferred.



Titanium Neivert offset
ergonomic ring handle



stainless steel
ergonomic ring handle

V.A.T.S. Ring Handle Designs

Please verify at the time of ordering which style is preferred.



needle holder
handle



scissors handle
"oval" rings

V.A.T.S. Classic DeBakey Clamp

Curved / 50 mm / 1 x 2 Debakey Jaw / 13" (33 cm)

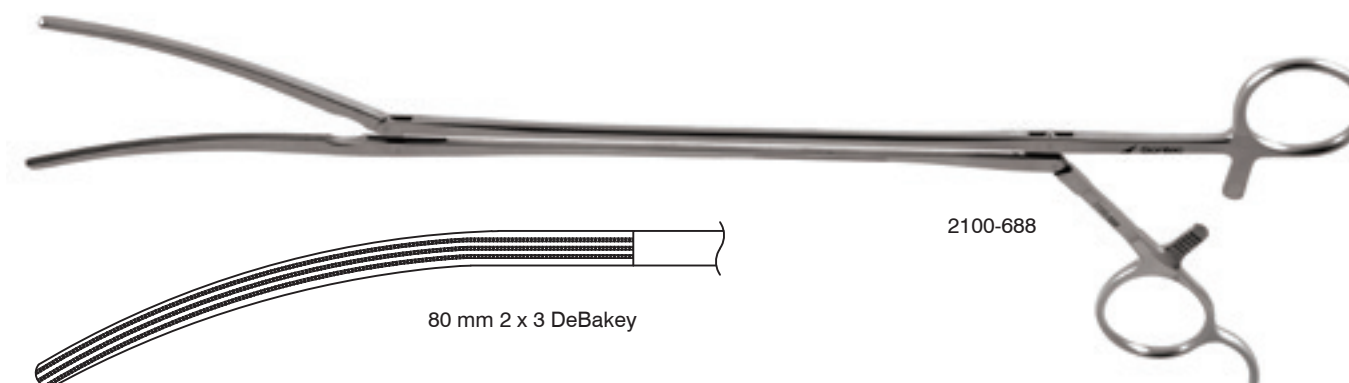
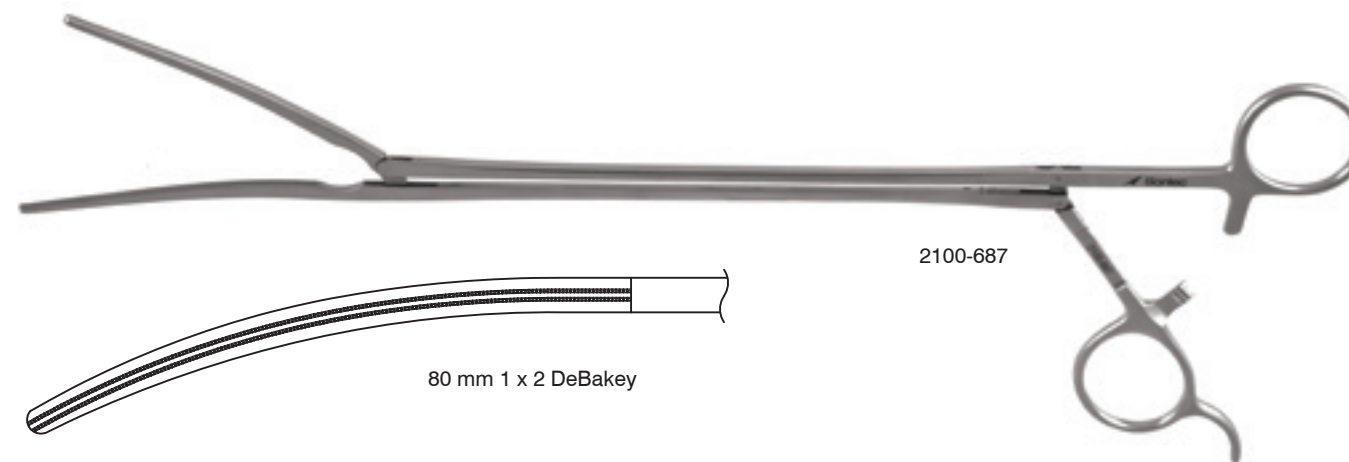
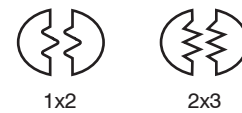
2100-685 without ratchet
2100-686 with ratchet

Curved / 80 mm / 1 x 2 Debakey Jaw / 14" (36 cm)

2100-687 with ratchet

Curved / 80 mm / 2 x 3 Debakey Jaw / 14" (36 cm)

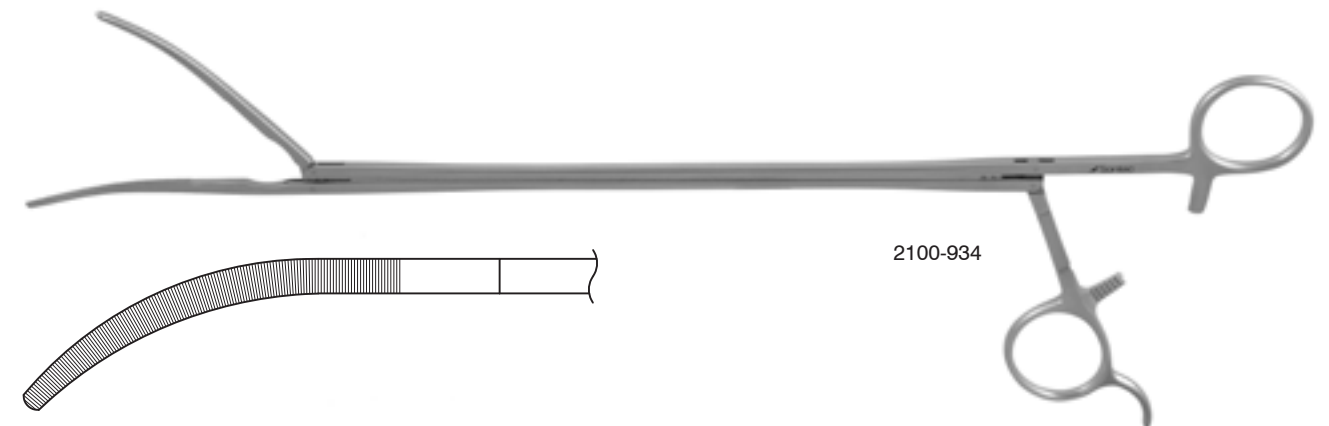
2100-688 with ratchet
2100-6881 without ratchet



V.A.T.S. Geissendorfer Dissecting Forceps

Curved / serrated jaw / delicate 3.0 mm tip / 14" (36.7 cm)

2100-933 without ratchet
2100-934 with ratchet



V.A.T.S. Dissecting Forceps

Curved / serrated jaw / heavy 4.0 mm tip / 13" (33 cm)

2100-935A without ratchet
2100-935 with ratchet



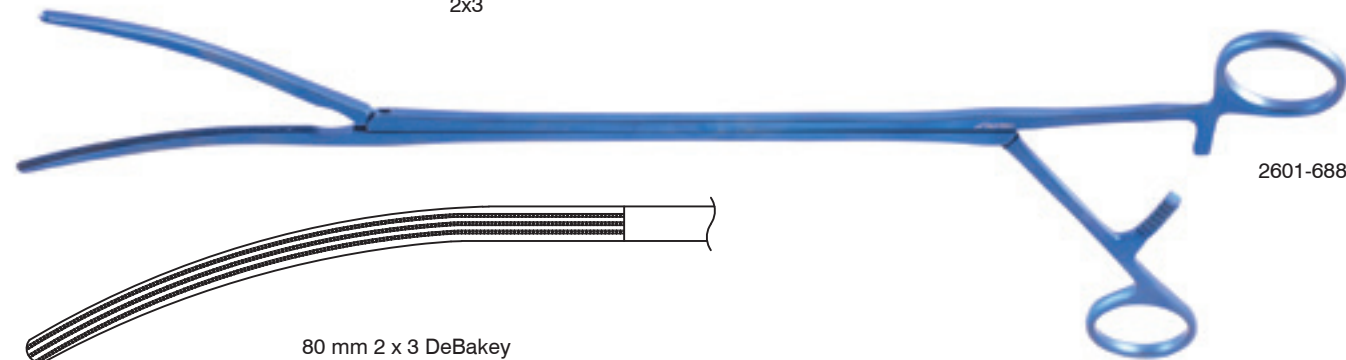
V.A.T.S. Classic DeBakey Clamp Titanium

Curved / 2x3 DeBakey jaw

2601-688 80 mm 14" (36.0 cm)



2x3



80 mm 2 x 3 DeBakey

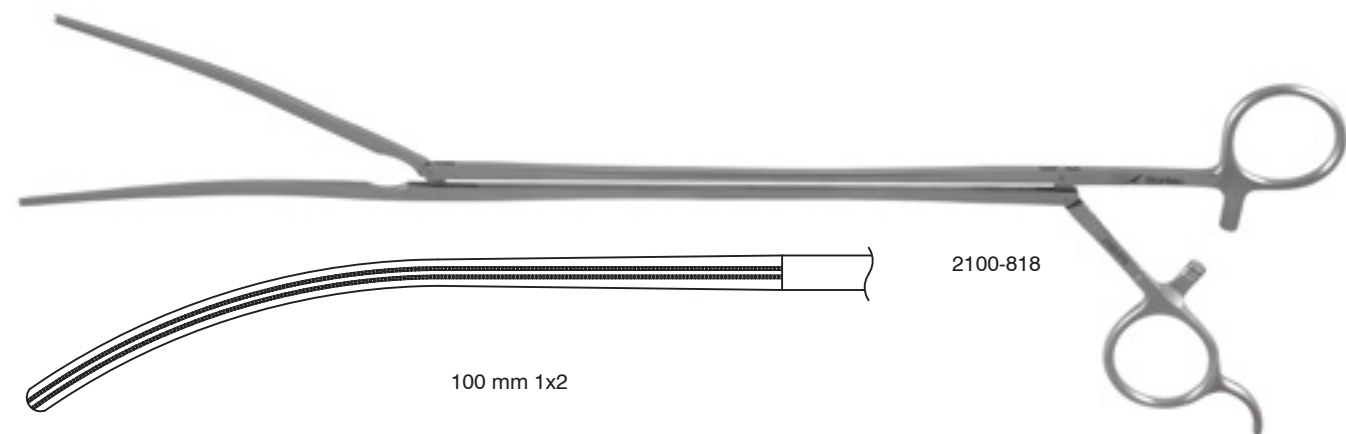
V.A.T.S. Classic Delicate DeBakey Clamp

1x2 DeBakey jaw / 100 mm / with ratchet / 15" (38 cm)

2100-818 curved
2100-819 straight

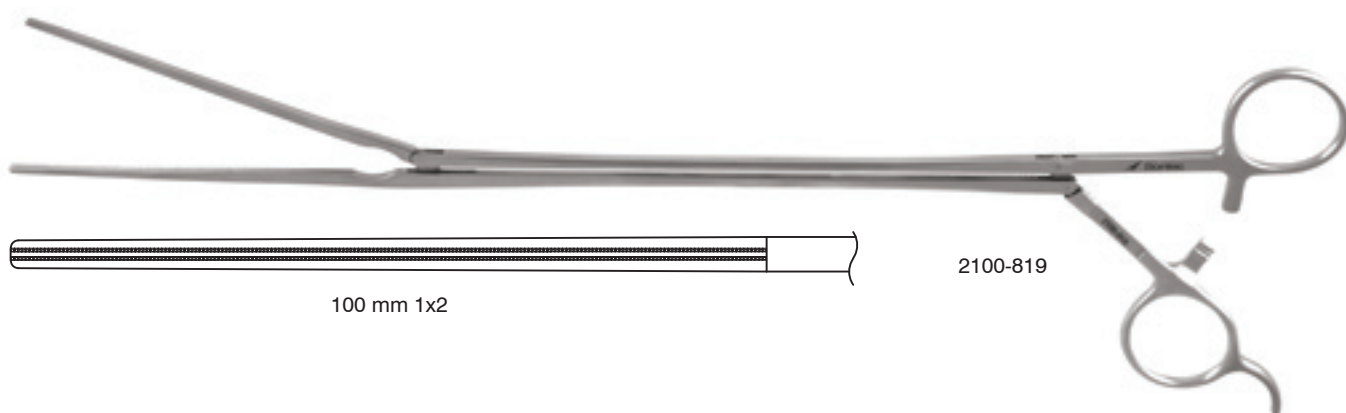


1x2



2100-818

100 mm 1x2



2100-819

100 mm 1x2

V.A.T.S. Mixer DeBakey Clamp

Right angle 90° / 1x2 DeBakey jaws / without
ratchet / 13" (33 cm)

2100-771 20 mm
2100-772 45 mm



1x2



2100-771

20 mm 1x2



2100-772

45 mm 1x2

V.A.T.S. DeBakey Slider Dissecting Clamp

Curved jaw / 5 mm shaft / 11 1/2" (29 cm)

2100-778 without ratchet 1x2 teeth

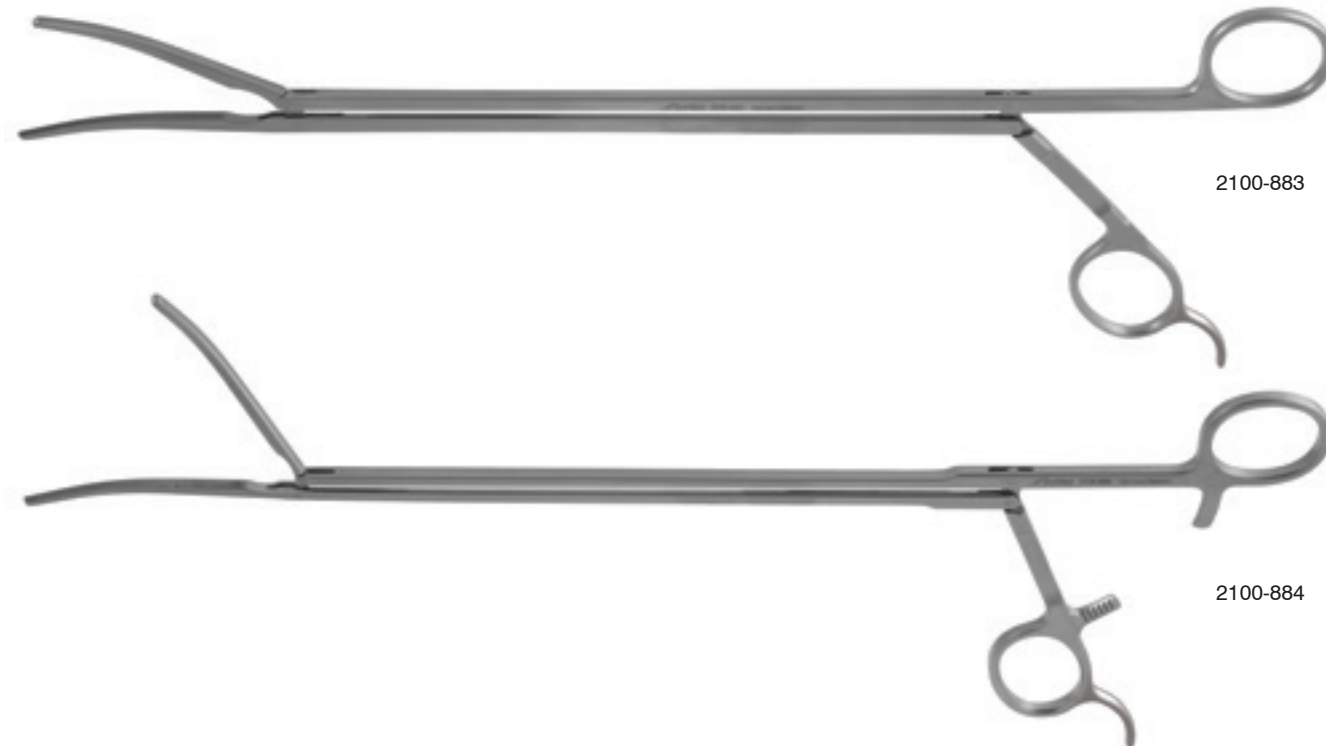


2100-778

V.A.T.S. Dissecting Clamp

Curved jaw / 13" (33 cm)

2100-883	without ratchet	110 mm jaw	10 mm shaft
2100-884	with ratchet	105 mm jaw	7 mm shaft



V.A.T.S. Slider Clamp

90° angled jaw / 10 mm shaft / 13 1/2" (34 cm)

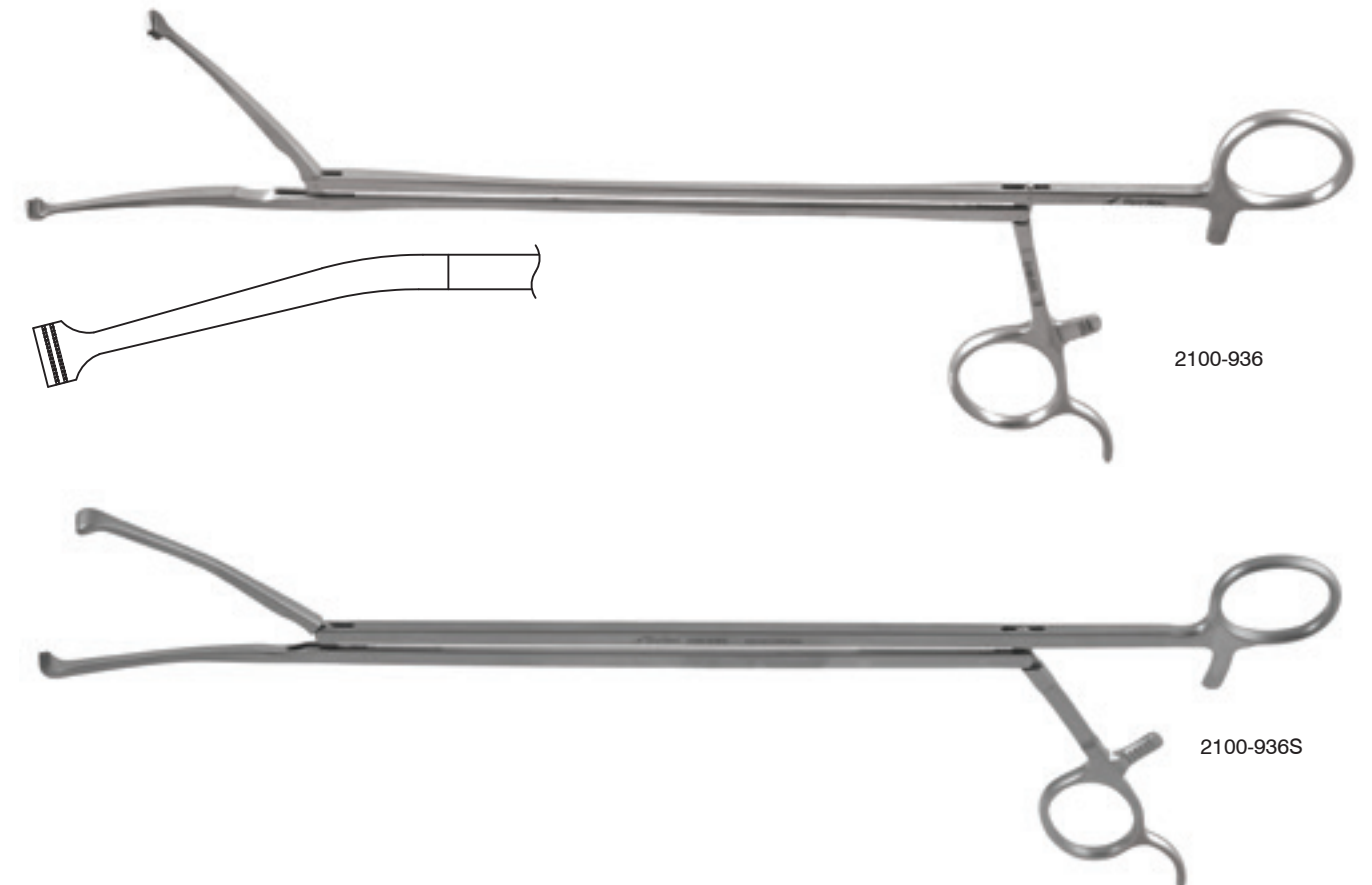
2100-774	without ratchet	longitudinal teeth
2100-774CR	with ratchet	longitudinal and serrated teeth



Sontec V.A.T.S. Allis Debakey Clamp

Atraumatic clamp / curved left / with ratchet

2100-936	67 mm jaw	8.2 mm jaw tip		13 3/8" (34 cm)
2100-936S	70 mm jaw	7.2 mm jaw tip	5x6 teeth	13" (33 cm)



Ciradur DeBakey Tissue Forceps

Y-grip / 4.5 mm

27921-05-000 12" (30.5 cm)



V.A.T.S. Harken DeBakey Clamp

Medium curve / 1 x 2 DeBakey Jaw / 10 mm jaw / 13.5" (34.5 cm)

2100-820 without ratchet
2100-820R with ratchet

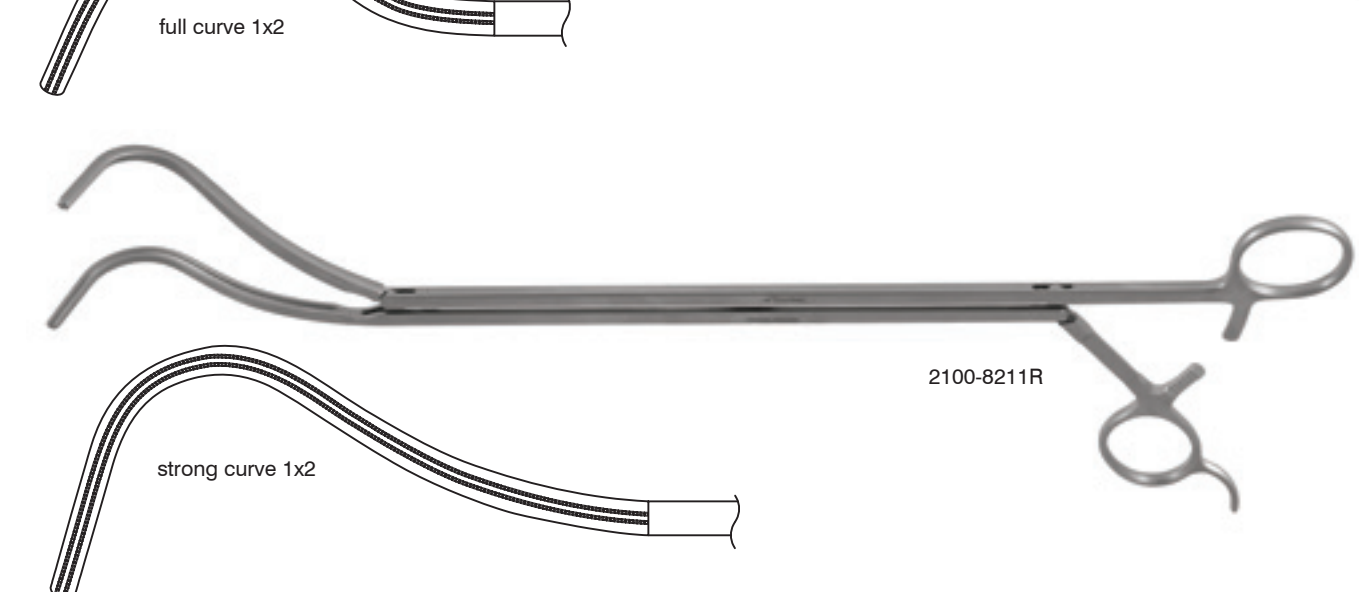
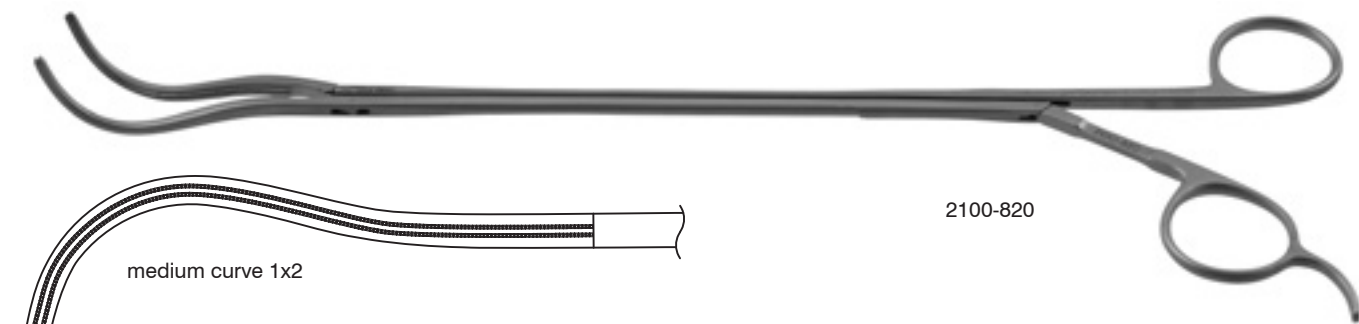


1x2 DeBakey jaw / full curve / 13.25" (34 cm)

2100-821 without ratchet
2100-821R with ratchet

Strong curve / 1x2 DeBakey jaw / 14" (35.7 cm)

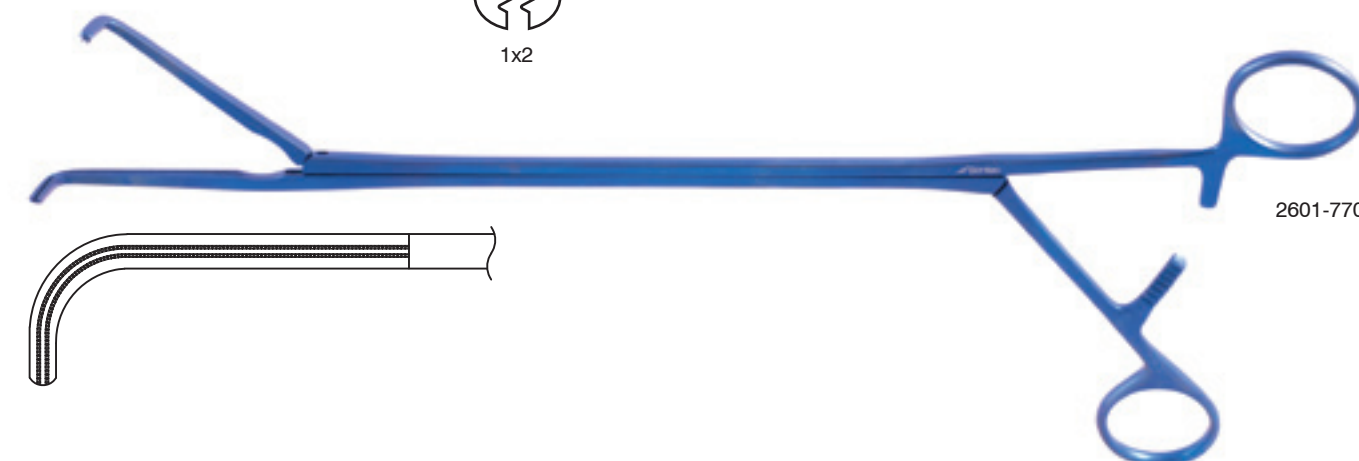
2100-8211 without ratchet
2100-8211R with ratchet



V.A.T.S. Mixer DeBakey Clamp Titanium

Right angle 90° / 1x2 DeBakey jaw / with ratchet / 13" (33 cm)

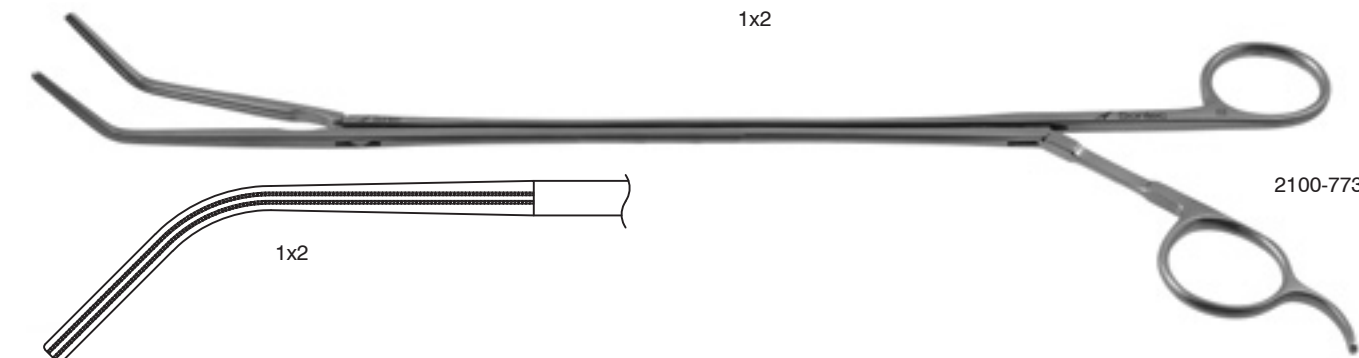
2601-770 20 mm



V.A.T.S. Mixer DeBakey Clamp

45° angle / 1x2 DeBakey / without ratchet / 13.5" (34.3 cm)

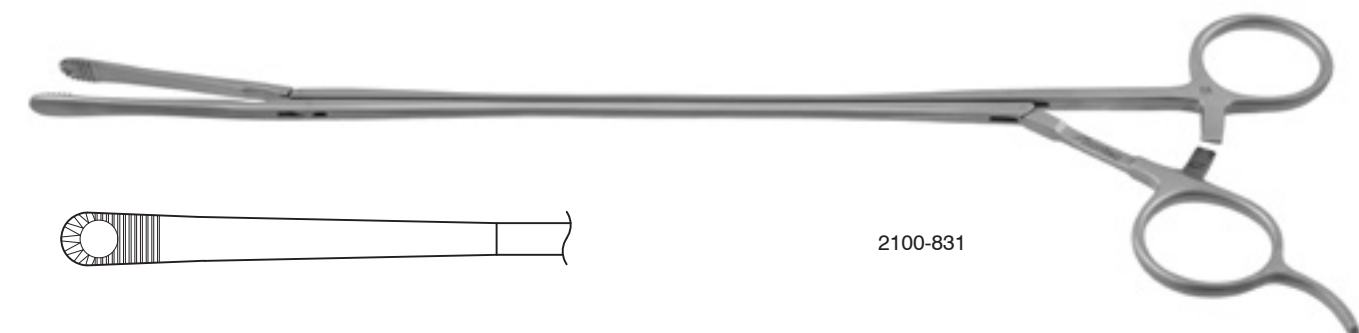
2100-773



V.A.T.S. Russian Forceps

Tapered jaw / straight / 13" (33.5 cm)

2100-831 with ratchet
2100-831A without ratchet



V.A.T.S. Foerster Clamp

Curved left / 10x19 mm oval jaw / 13" (33 cm)

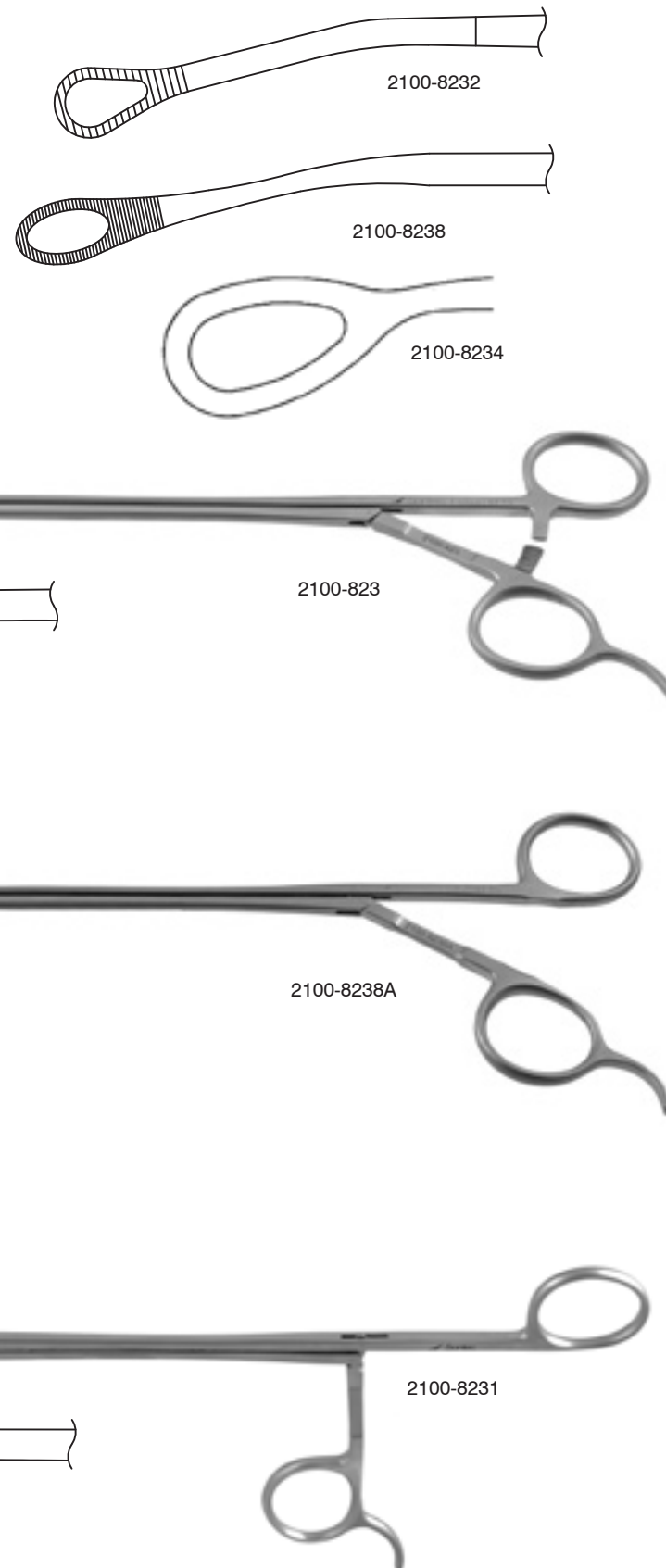
2100-8232 with ratchet

Curved left / 13.5" (34.3 cm)

2100-8238	9 x 21 mm oval jaw	with ratchet
2100-8238A	9 x 21 mm oval jaw	without ratchet
2100-8234	20 x 34 mm oval jaw	with ratchet
2100-8234A	20 x 30 mm oval jaw	without ratchet

Curved left / 12x24 mm oval jaw / 13.75" (35 cm)

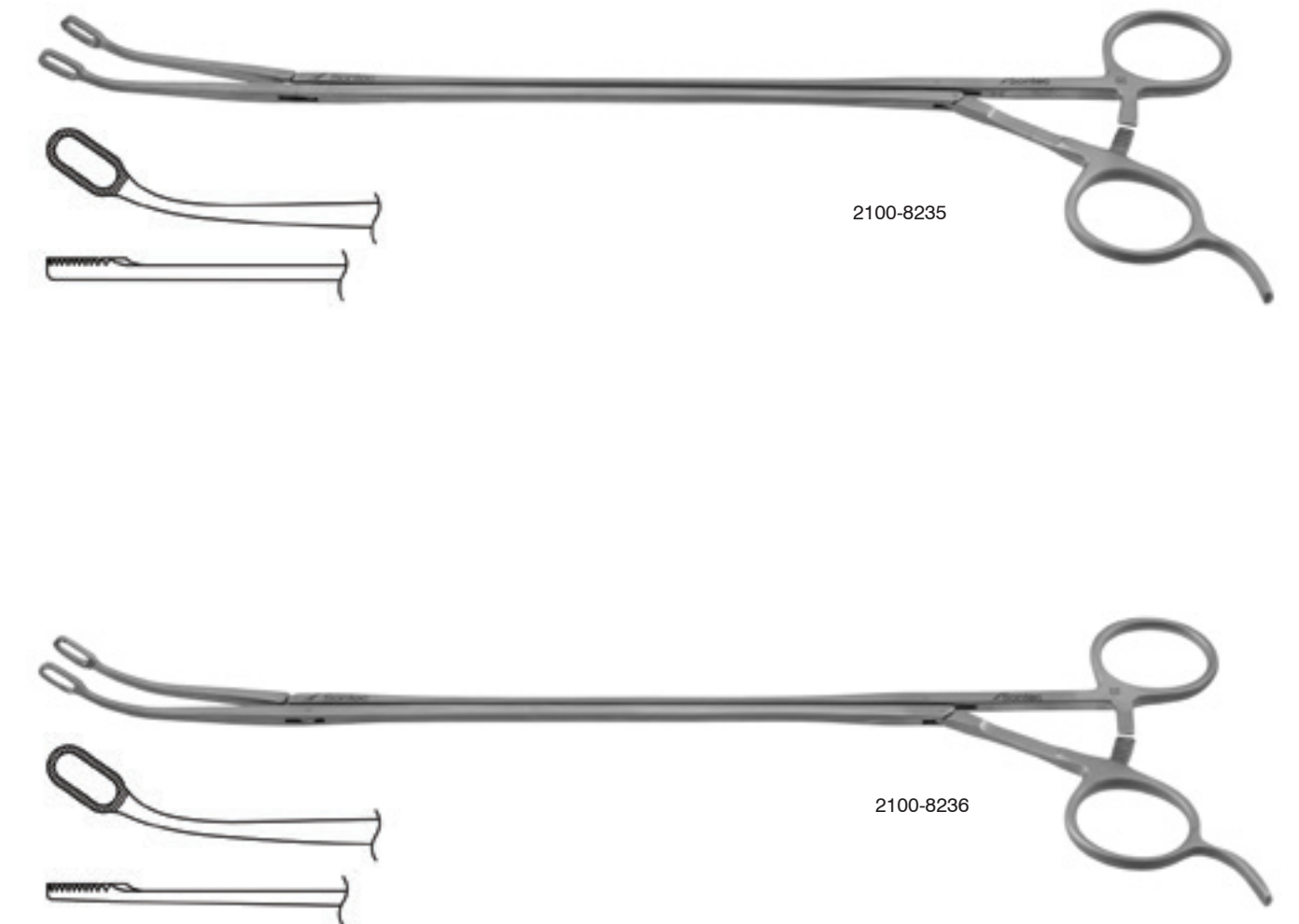
2100-823	with ratchet
2100-8231	without ratchet



V.A.T.S. Foerster Clamp

Curved left / with ratchet / 13 1/4" (33.5 cm)

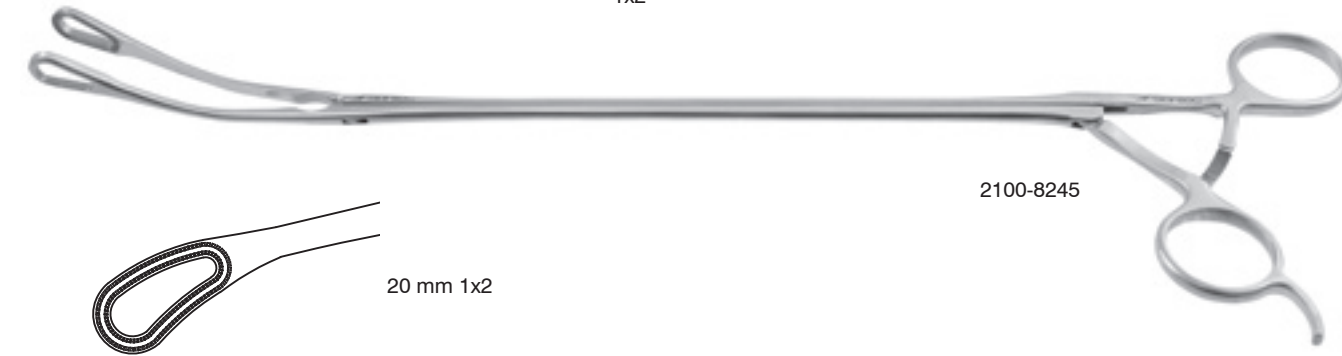
2100-8236	6x11 mm oval jaw	3 mm tip in top view
2100-8235	6x11 mm oval jaw	5 mm tip in top view



V.A.T.S. Foerster DeBakey Clamp

Curved left / 20 mm jaw / 1x2 DeBakey / with ratchet / 15" (38 cm)

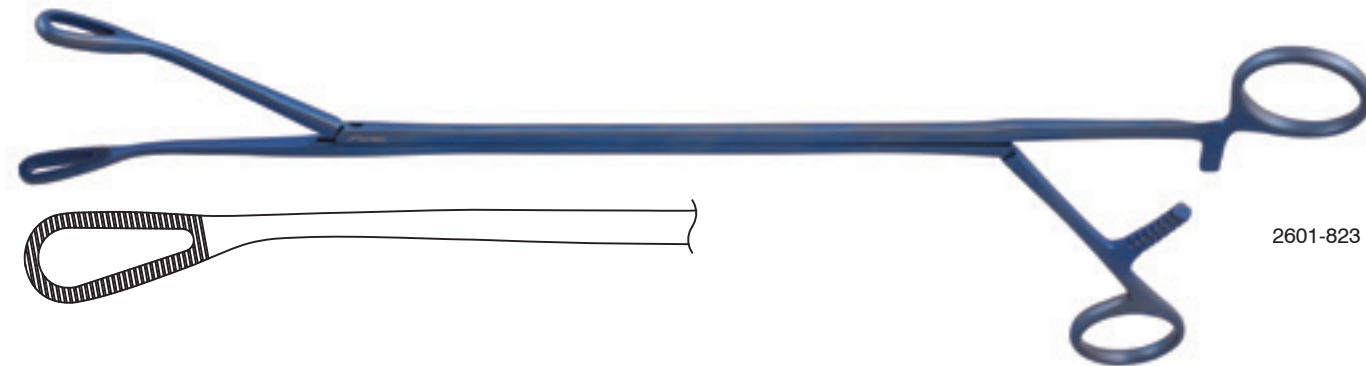
2100-8245
2601-8245 titanium



V.A.T.S. Foerster Clamp Titanium

Curved left / 12x24 mm oval jaw / 13.75" (35 cm)

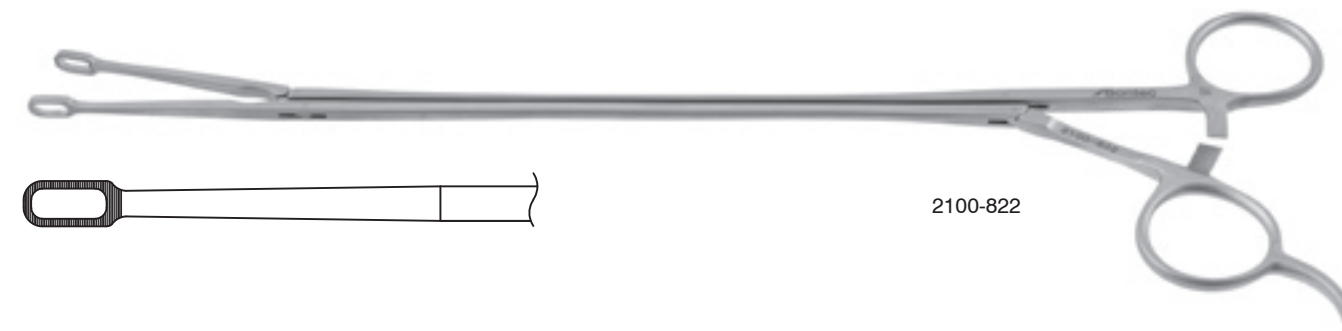
2601-823 with ratchet
2601-8231 without ratchet



V.A.T.S. Singley-Tuttle Lung Grasping Forceps

6 mm oblong jaw / 13" (33.5 cm)

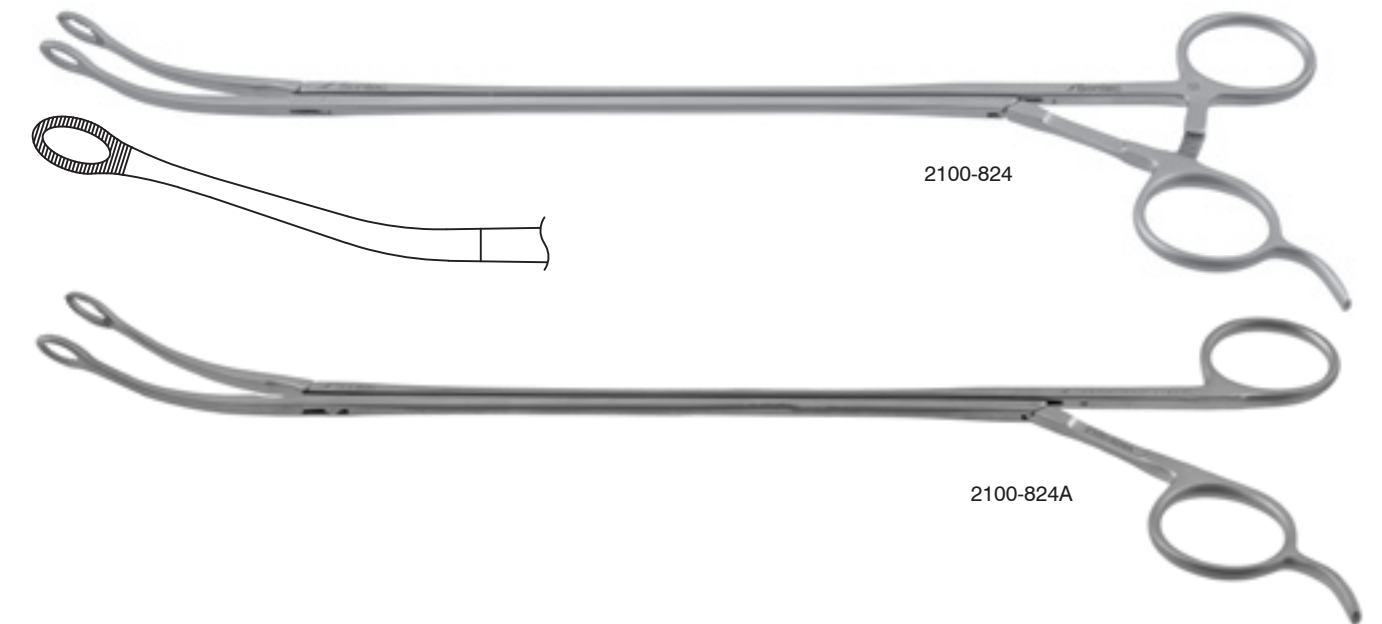
2100-822 with ratchet
2100-822A without ratchet



V.A.T.S. Foerster Clamp

Curved left / 6 mm x 12 mm oval jaw / 13.25" (33.6 cm) / mini ring

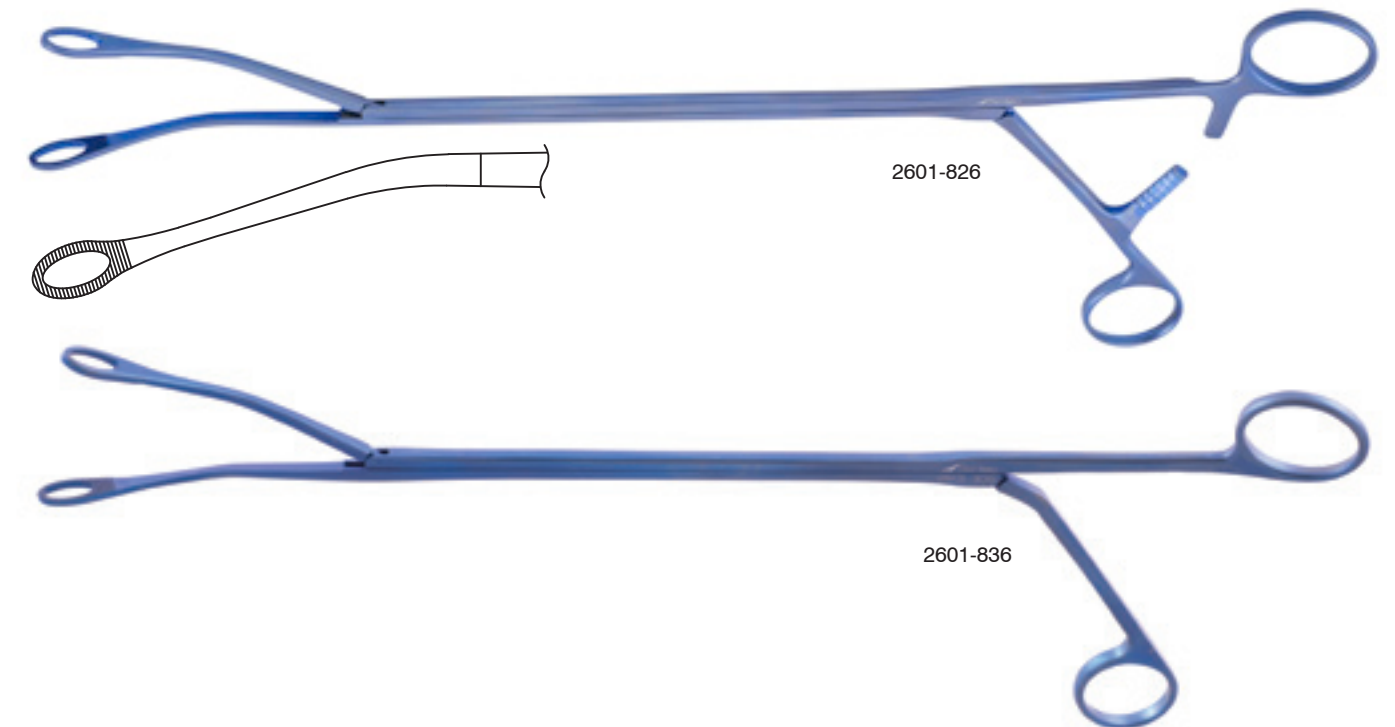
2100-824 with ratchet
2100-824A without ratchet



V.A.T.S. Foerster Clamp Titanium

Curved left / 6x12 mm oval jaw / ergonomic handle / 13.25" (33.6 cm)

2601-826 with ratchet
2601-836 without ratchet



V.A.T.S. Duval Clamp

Curved left / 1 x 2 DeBakey jaws /
with ratchet / 13" (33 cm)

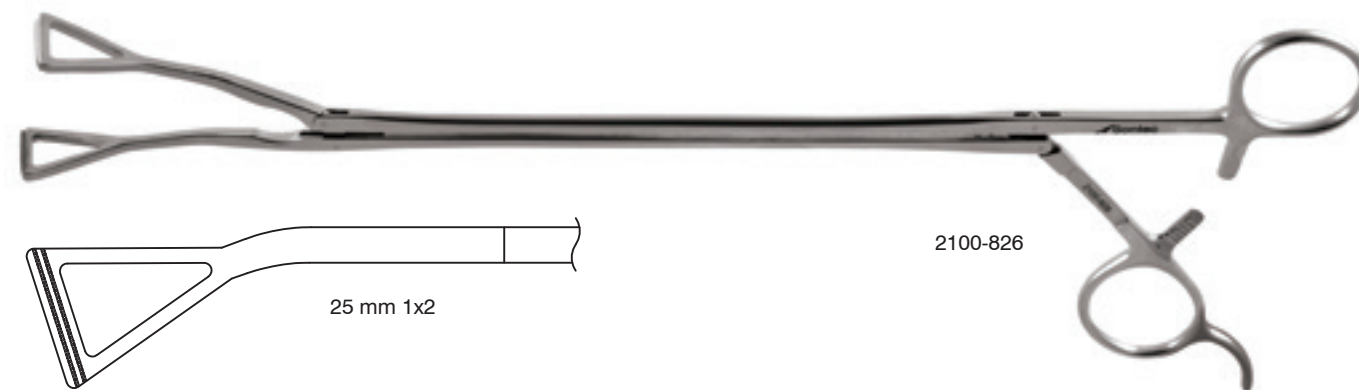
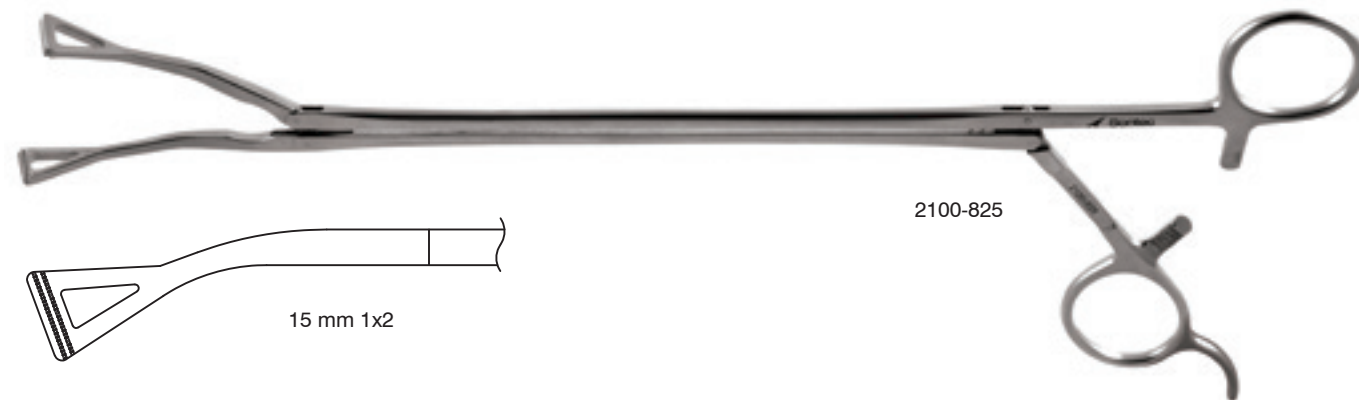
2100-825 15 mm



1x2

Curved left / 1 x 2 DeBakey jaws /
with ratchet / 13.5" (34 cm)

2100-826 25 mm



V.A.T.S. Duval Clamp Titanium

Curved left / 1 x 2 DeBakey jaws / with
ratchet / 13" (33 cm)

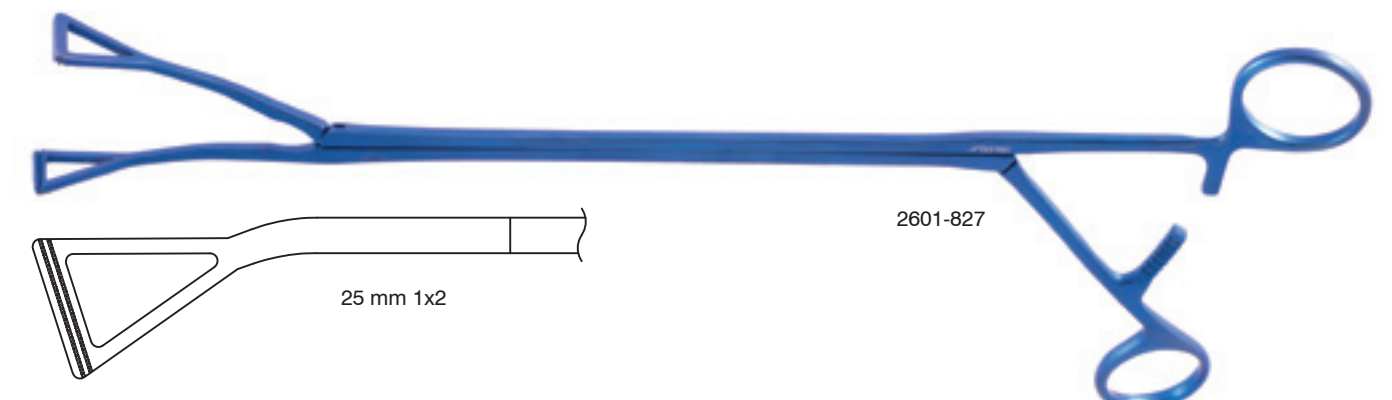
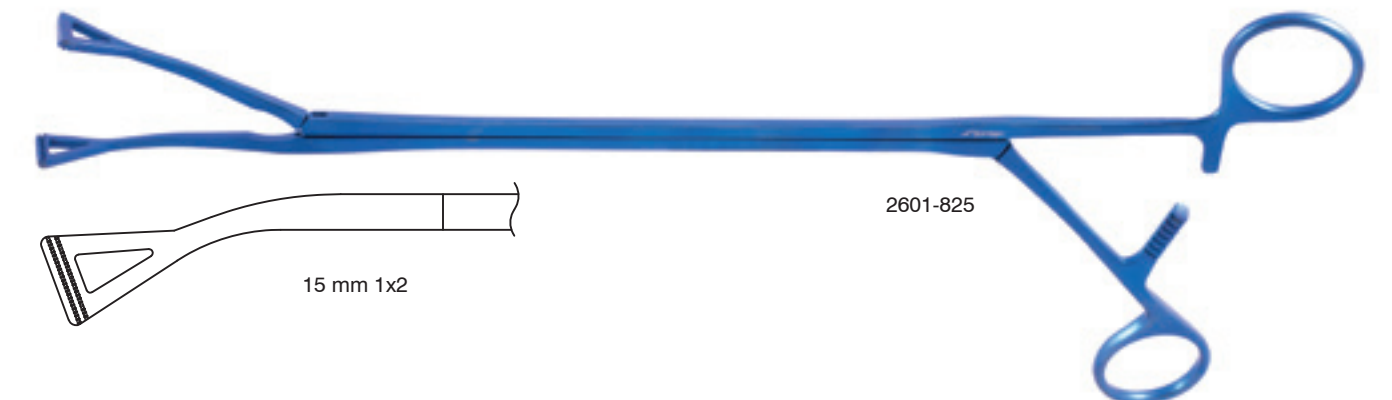
2601-825 15 mm



1x2

Curved left / 1 x 2 DeBakey jaws / with
ratchet / 13.5" (34 cm)

2601-827 25 mm



V.A.T.S. Mayo-Hegar Needle Holder

TC insert / with ratchet / 10 mm shaft / 11 1/4" (28.6 cm)

2300-900 straight
2300-902 curved



V.A.T.S. Mayo Needle Holder

Straight / TC insert / with ratchet / 10 mm shaft / 13" (33 cm)

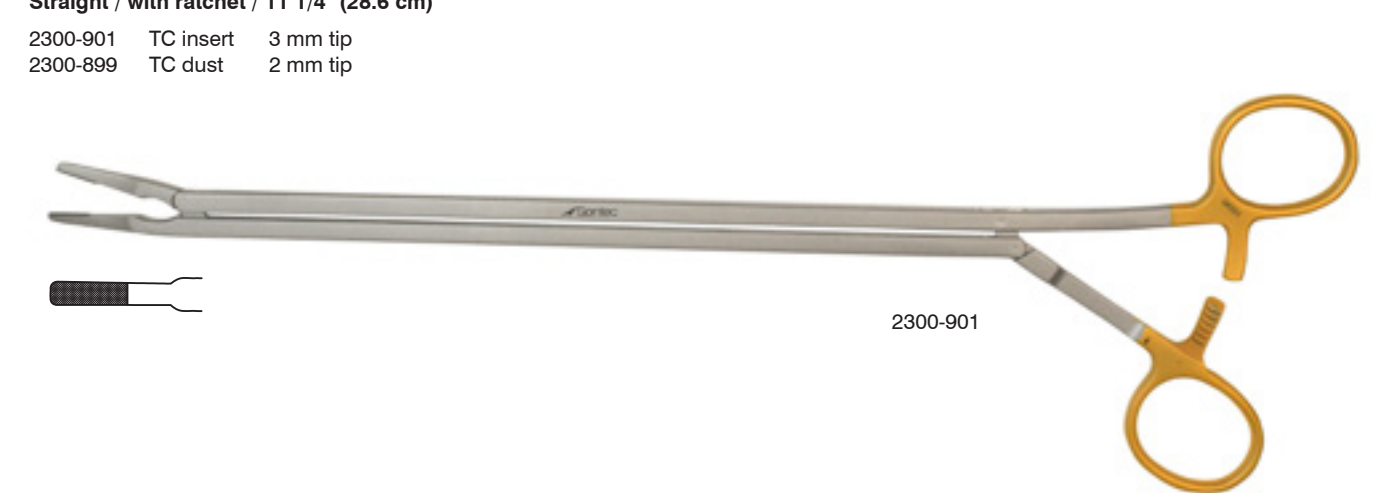
2300-904 13" (34 cm)



V.A.T.S. Ryder Fine Needle Holder

Straight / with ratchet / 11 1/4" (28.6 cm)

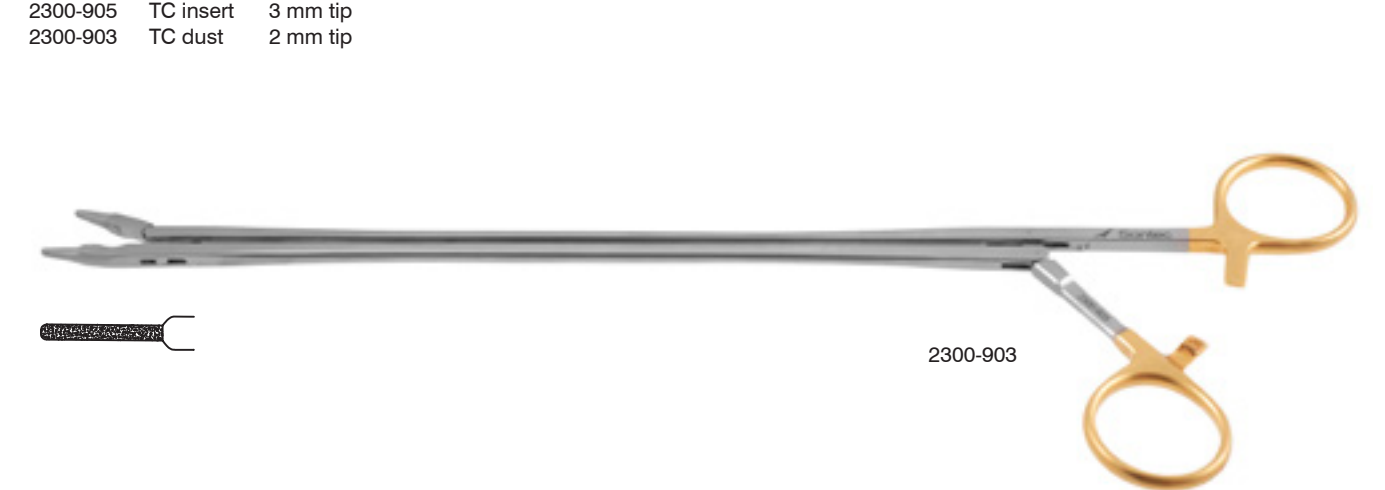
2300-901 TC insert 3 mm tip
2300-899 TC dust 2 mm tip



V.A.T.S. Ryder Fine Needle Holder

Straight / with ratchet / 13" (33 cm)

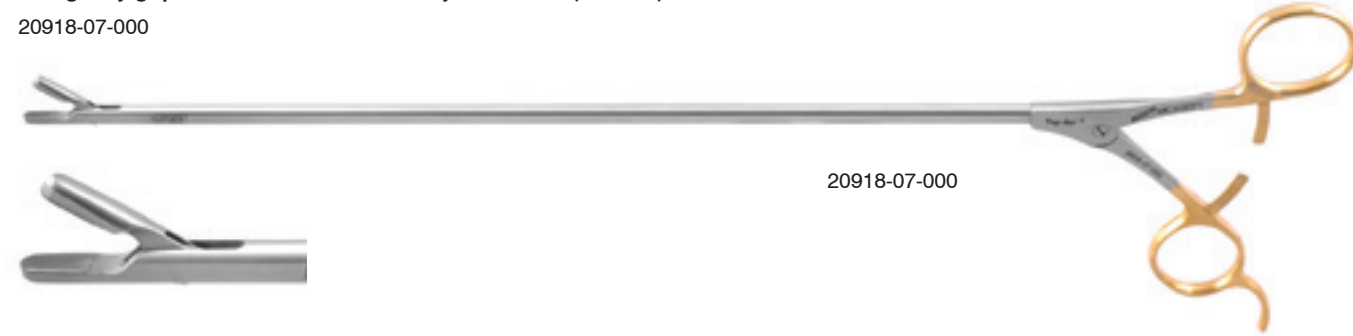
2300-905 TC insert 3 mm tip
2300-903 TC dust 2 mm tip



V.A.T.S.-MICS TOP-DUR Needle Holder

Straight / y-grip / with ratchet / short wide jaw / 15 1/2" (39.4 cm)

20918-07-000

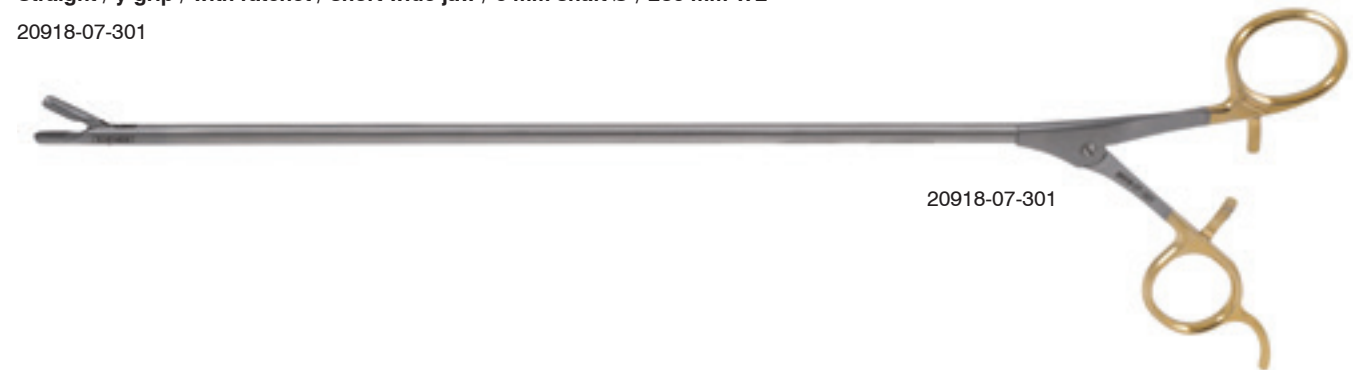


20918-07-000

TOP DUR Needle Holder

Straight / y-grip / with ratchet / short wide jaw / 6 mm shaft Ø / 280 mm WL

20918-07-301



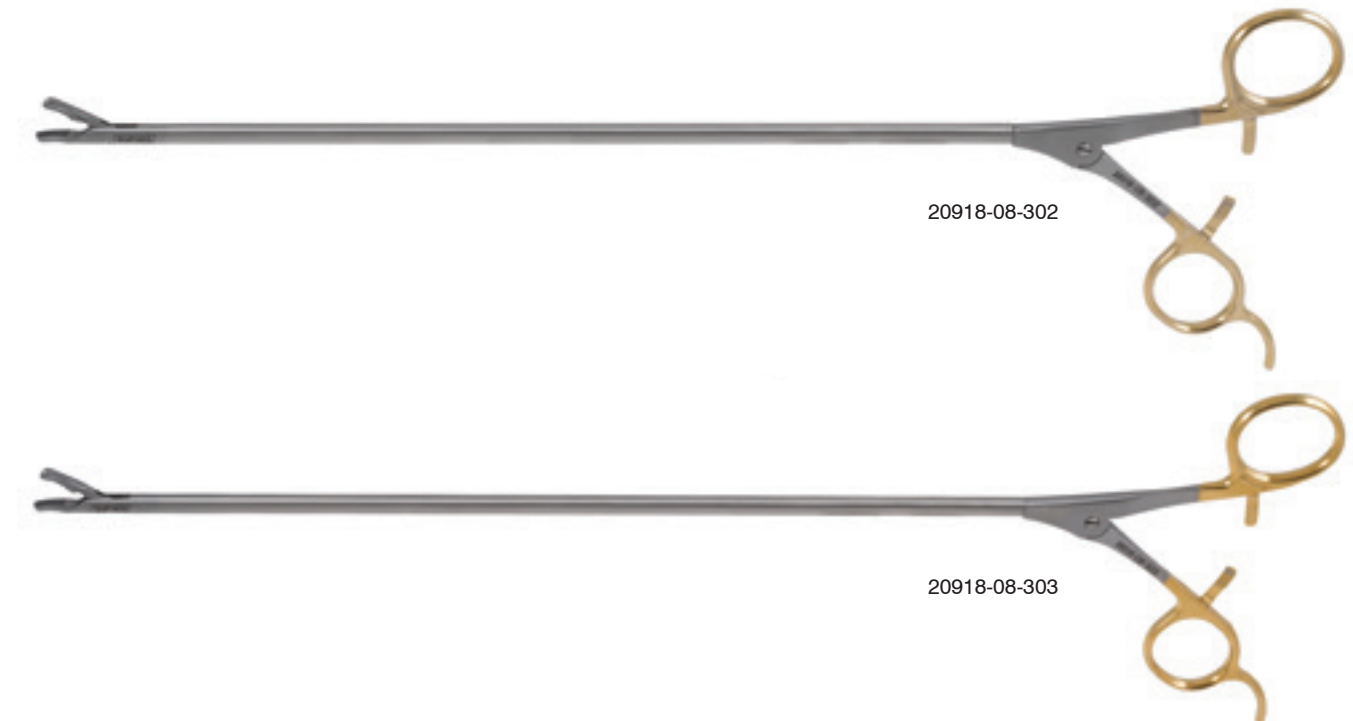
20918-07-301

TOP DUR Needle Holder

Curved / y-grip / with ratchet / wide jaw / 6 mm shaft Ø

20918-08-302 280 mm WL

20918-08-303 300 mm WL



20918-08-302

20918-08-303

V.A.T.S. Metzenbaum Power Cut Gold® Scissors

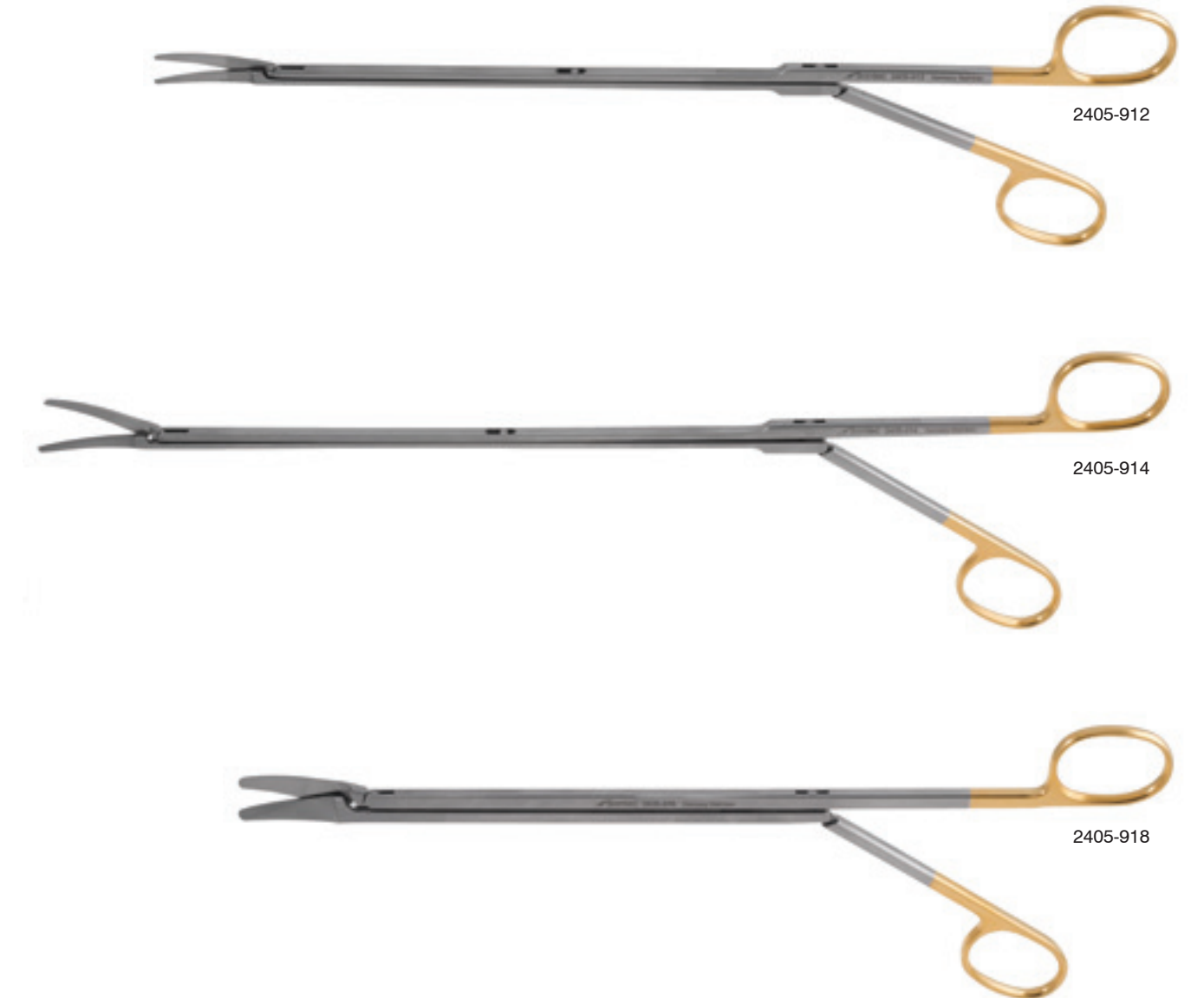
Curved short jaw / 5 mm shaft

2405-912 12 1/2" (32 cm)

2405-914 14" (35.5 cm)

Curved short jaw / 10 mm shaft

2405-918 11 1/2" (29 cm)



2405-912

2405-914

2405-918

V.A.T.S. Metzenbaum Power Cut Scissors

Power cut / curved

2405-920 14" (35.9 cm)



2405-920

V.A.T.S. Metzenbaum Power Cut Black® Scissors

Power cut / 11 1/2" (28.8 cm)

2405-923 straight
2405-926 curved



2405-923

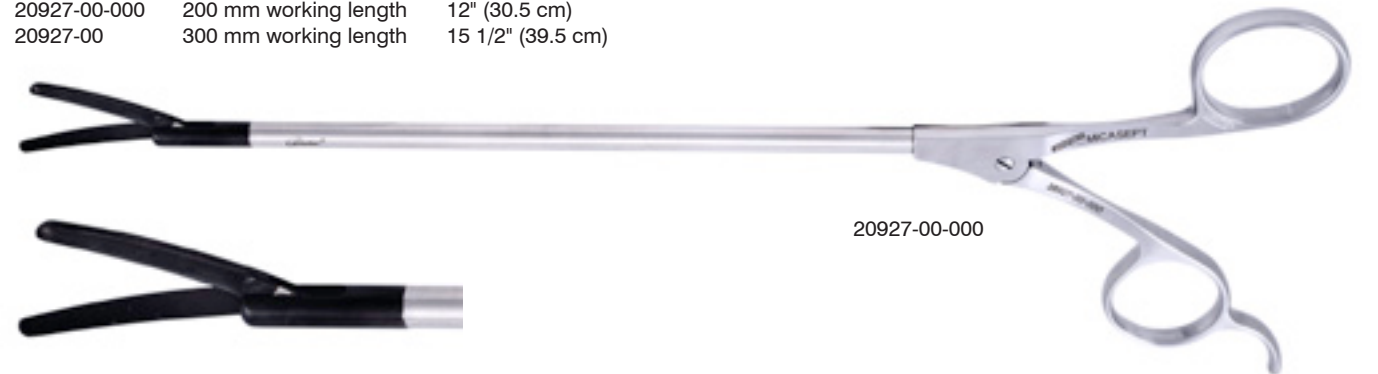


2405-926

V.A.T.S. Metzenbaum Power Cut® Ciradur Scissors

Cvd left / straight shaft / 6 mm

20927-00-000 200 mm working length 12" (30.5 cm)
20927-00 300 mm working length 15 1/2" (39.5 cm)



20927-00-000

V.A.T.S. Metzenbaum Power Cut® Ciradur Scissors

Curved left / with y-grip / 8" (20.3 cm) / 20 mm blades

27928-01-000



27928-01-000

V.A.T.S. Metzenbaum Mini Power Cut® Ciradur Scissors

Straight / y-handle / 6 1/2" (16.5 cm) / 10 mm blades

27925-01-000



27925-01-000

V.A.T.S. Black Suture Cutter

5 mm shaft

2405-945	11" (28 cm)
2405-947	13" (33 cm)
2405-949	15" (38 cm)



Kerrison Type Rib Shears

10 mm blade / 16 mm cutting width / 10 mm shaft /
11 1/2" working length / 13" overall length

430-366



V.A.T.S. Bulldog Apply Forceps

With ratchet / 60° angle / 13" (33 cm)

2100-829



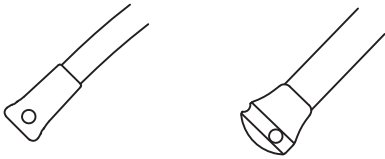
Sontec Thoracic Suction Tube

With finger tip controlled suction regulator /
3.5 mm shaft / 5.8 mm tip

- 180-441 17 cm working length
- 180-442 22 cm working length

With finger tip controlled suction regulator /
4.9 mm shaft / 8 mm tip

- 180-443 22 cm working length
- 180-444 32 cm working length



5.8 mm tip 7.9 mm tip



180-441

Thoracic Suction Tube

With Pynchon handle / 5 mm tube / 17 1/4" (43.8 cm)

- | | | |
|-----------|----------|--------------------|
| 180-429 | straight | |
| 180-4291 | straight | without thumb hole |
| 180-429C | angled | |
| 180-429B | straight | with basket tip |
| 180-429CB | angled | with basket tip |

With Pynchon handle / 10 mm tube

- | | | | |
|----------|----------|-------------------|--------------------|
| 180-431 | straight | 18 3/4" (47.6 cm) | |
| 180-4311 | straight | 18 3/4" (47.6 cm) | without thumb hole |
| 180-431C | angle | 18 1/2" (47 cm) | |



180-429

180-4291

180-429C

180-429B

180-429CB

180-431

180-4311

180-431C

Sontec Fan Organ Retractor

5 blades / 10 mm wide / 350 mm working length

26942-42



26942-42



Sontec Fan Organ Retractor

5 blades / 5 mm wide / 330 mm working length / using one hand, blades & neck articulate to achieve desired shape

26942-41



26942-41



Sontec Deluxe Fan Organ Retractor

5 blades / 10 mm wide / 380 mm working length / using one hand, blades & neck articulate to achieve desired shape

26942-43

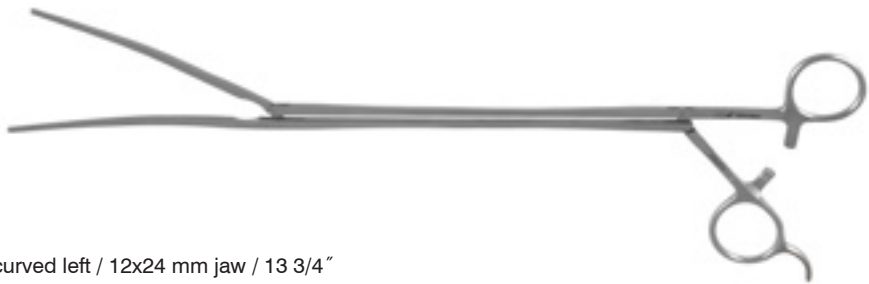


26942-43



VATS Starter Set

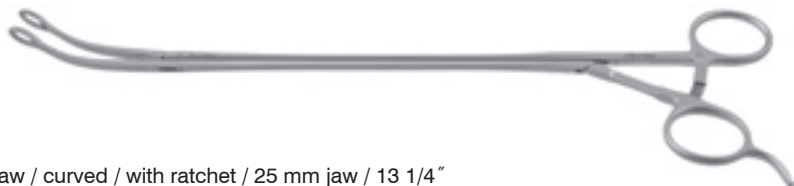
2100-818 Cardiovascular Clamp-1x2 Debakey jaw / with ratchet / curved / 15"



2100-823 VATS Foerster Clamp- with ratchet / curved left / 12x24 mm jaw / 13 3/4"



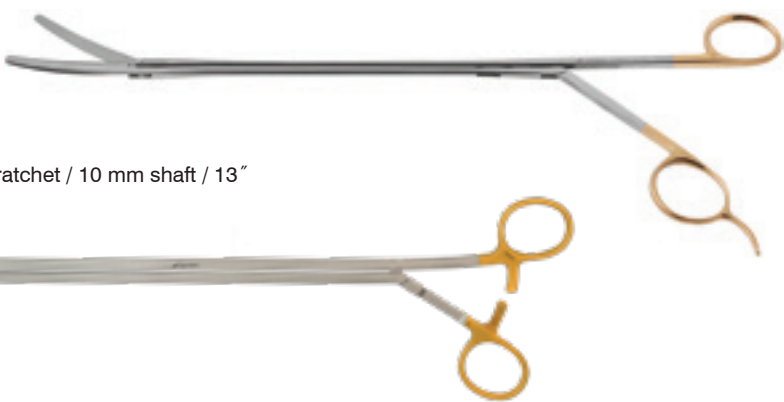
2100-824 VATS Foerster Clamp- with ratchet / curved left / 6 mm oval ring jaw / 13.25"



2100-826 Duval Cardio vascular Clamp- 1 x 2 Debakey jaw / curved / with ratchet / 25 mm jaw / 13 1/4"



2405-920 Metz VATS Slider Scissors- power cut / curved / 14"



2300-904 VATS Needle Holder- fine / TC serrated / with ratchet / 10 mm shaft / 13"



180-429 Thoracic Suction Tube- straight / 5 mm tube / 17 1/4"



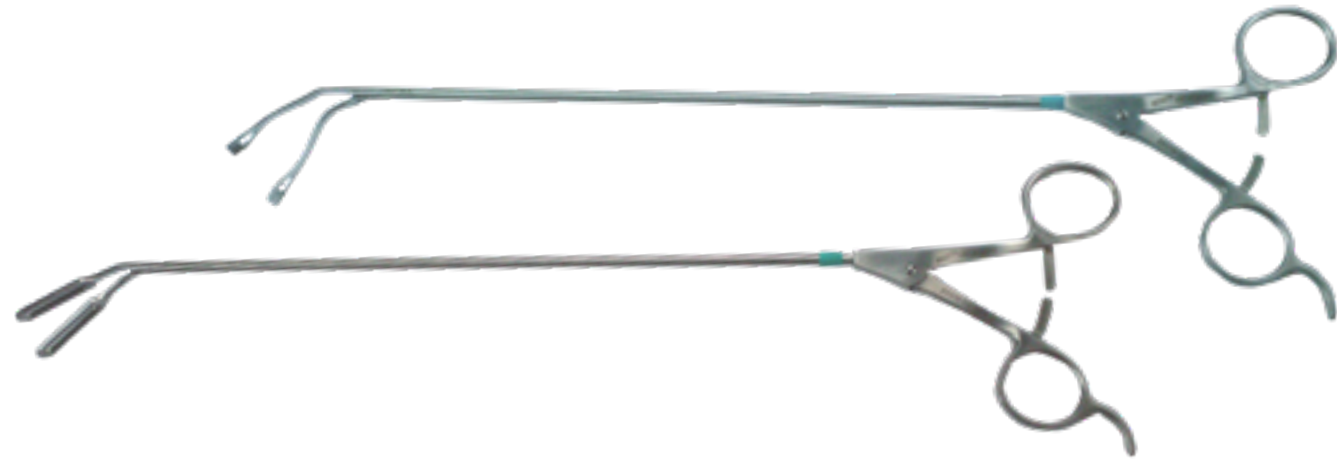
VATS Deluxe Set

- 2100-687 Cardiovascular Clamp - curved / with ratchet / 1 x 2 Debakey jaw / 14"
- 2100-688 Cardiovascular Clamp - curved / with ratchet / 2 x 3 Debakey jaw / 14"
- 2100-818 Cardiovascular Clamp -1x2 Debakey jaw / with ratchet / curved / 15"
- 2100-936 Allis Debakey Clamp - atraumatic clamp / curved left / 13"
- 2100-771 Dissector Clamp- right angle 90° / with Debakey jaws / without ratchet / 13"
- 2100-820 Harken Cardiovascular Clamp / 1 x 2 Debakey jaw / without ratchet / medium curve / 13.5"
- 2100-821 Harken Cardiovascular Clamp / 1 x 2 Debakey jaw / without ratchet / full curve / 13.25"
- 2100-823 VATS Foerster Clamp- with ratchet / curved left / 12x24 mm jaw / 13.75"
- 2100-824 VATS Foerster Clamp- with ratchet / curved left / 6x12 mm oval ring jaw / 13.25"
- 2601-826 VATS Foerster Clamp- with ratchet / curved left / 6x12 mm oval ring jaw / titanium / 13.25"
- 2100-825 Duval Cardio vascular Clamp- 1 x 2 Debakey jaw / curved / with ratchet / 15 mm jaw / 13"
- 2100-826 Duval Cardio vascular Clamp- 1 x 2 Debakey jaw / curved / with ratchet / 25 mm jaw / 13.5"
- 2405-920 Metz VATS Slider Scissors- power cut / curved / 14"
- 2300-904 VATS Needle Holder- fine / TC serrated / with ratchet / 13"
- 180-429 Thoracic Suction Tube- straight / with yankauer handle / 5 mm tube / 17.25"
- 180-431 Thoracic Suction Tube- straight / with yankauer handle / 10 mm tube / 18.75"
- 180-429CB Thoracic Suction Tube- curved / with yankauer handle / 5 mm tube / with basket / 17.25"
- 18-3560 VATS Surgical Tray- universal keyhole bracket / sliver / 10" x 21.5" x 2.5"





 Sontec Instruments®
Thoracoscopic



Lung Grasping Forceps

30° curved down / 4.5 mm in diameter / 300 mm working length / node grasper / fits 10.5 mm trocar

20919-00	round ratchet
20919-00-005	folding ratchet
20919-00-004	hegar ratchet



Organ Grasping Forceps

Fenestrated / 30° curved down / 4.5 mm in diameter / 300 mm working length / lung grasper / fits 10.5 mm trocar

20919-03	round ratchet
20919-03-004	hegar ratchet
20919-03-005	folding ratchet

Atraumatic / 30° curved down / 4.5 mm in diameter / 300 mm working length / node grasper / fits 10.5 mm Trocar

20919-04	round ratchet
20919-04-004	hegar ratchet
20919-04-005	folding ratchet



fenestrated



atraumatic



DeBakey Organ Grasping Forceps

6.8 mm / atraumatic / 30° curved down / 4.5 mm diameter / 300 mm working length / * fits 7mm Trocar

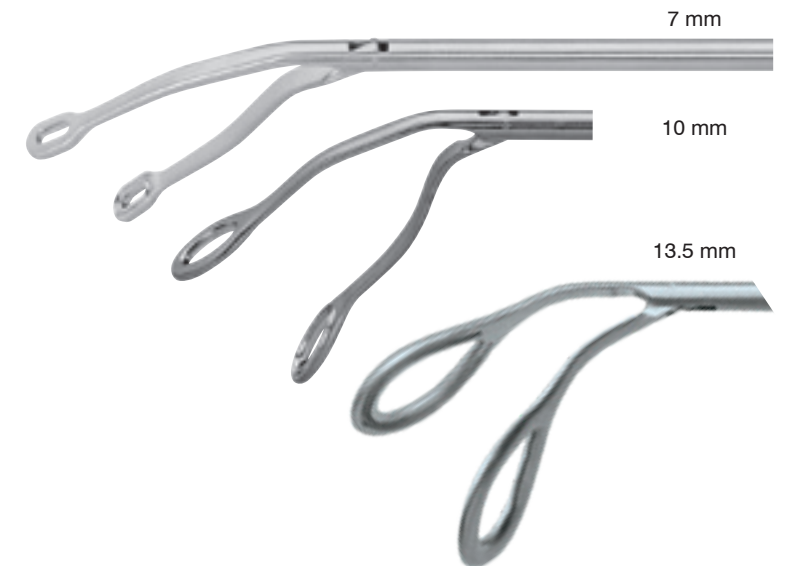
20919-05-060	round ratchet
20919-05-064	hegar ratchet
20919-05-065	folding ratchet

10 mm / fits 10.5mm Trocar

20919-05-040	round ratchet
20919-05-055	folding ratchet
20919-05-044	hegar ratchet

20 mm / rigid oval / lung grasper / fits only endo stapler trocar

20919-05	round ratchet
20919-05-004	hegar ratchet
20919-05-005	folding ratchet
20919-05-304	str w/Hegar ratchet



7 mm

10 mm

13.5 mm

DeBakey Universal Ring Clamp

13 mm / 30° curved down / 4.5 mm diameter / 300 mm working length / fits 10.5 mm trocar

20919-05-020	round ratchet
20919-05-024	hegar ratchet
20919-05-025	folding ratchet



DeBakey Universal Ring Clamp

13 mm / straight / 4.5 mm diameter / 300 mm working length / fits 10.5 mm trocar

20919-05-344



Index

T13-3417	252	13-7710	259	19-1801	334
T13-3418	252	13-7715	259	110-280	249
T15-1912	178	13-7720	258	110-281	249
T15-1913	178	13-7730	258	110-312	307
T15-1914	178	13-7740	260	110-313	307
T15-1915	178	13-7750	260	112-478	259
T15-1916	178	13-7786	260	112-480	259
T15-1917	178	13-8805	252	115-310	134, 138
T115-452	142	13-8813	256	115-312	134, 138
T136-688	107	13-8814	256	115-316	138
10-4192	232	13-8815	252	115-318	138
10-4194	232	13-8820	252	115-320	138
10-4196	232	13-8825	252	115-322	138
10-4198	232	13-8865	252	115-400	137
10-4200	232	13-8866	252	115-402	137
10-4201	232	13-9805	261	115-404	137
10-4206	232	13-9810	261	115-407	138, 140
10-4207	232	13-9820	261	115-408	137, 138
10-4210	232	13-9822	261	115-410	135
10-4211	232	14-6560	116	115-410D	135, 137
10-4213	232	14-6562	116	115-412	135
10-4216	232	14-6564	116	115-412D	135, 137
10-4218	232	14-6805	121	115-412S	135
10-4220	232	T14-6805	118	115-422	136
10-4221	232	14-6810	118	115-422M	136
10-4223	232	14-6815	118	115-424	136
10-4226	232	14-6820	118	115-426	134
10-4230	232	T14-6820	118	115-426D	134
10-4231	232	14-6830	118	115-428	134
10-4233	232	T14-6830	118	115-428D	134
10-4236	232	14-6840	118	115-429	134
10-4240	232	T14-6840	118	115-432	142
10-4241	232	T14-6841	119	115-434	142
12-9200	342	14-6850	118	115-450	142
12-9300	342	T14-6850	118	115-452	142
12-9300D	342	T14-6855	119	115-465	143
12-9305	342	T14-6855P	119	115-467	143
12-9310	342	T14-6860	118	115-585	45
12-9310D	342	14-6870	118	115-586	45
12-9315	342	T14-6875	119	115-600	141
12-9316	342	14-9935	45	115-602	141
12-9318	342	14-9940	45	115-604	141
12-9500	343	15-1900	178	115-606	141
13-3306	251	15-1901	178	115-4121	135
13-3307	251	15-1910	178	117-543	57
13-3307S	251	15-1911	178	117-546	57
13-3400	251	15-1912	178	117-549	57
13-3401	251	15-1913	178	117-559	333
13-3402	251	15-1914	178	117-560	333
13-4400	252	15-1915	178	117-561	333
13-4402	252	15-1916	178	117-562	57
13-7500	258	15-1917	178	117-564	333
13-7510	258	15-1980	179	117-565	57
13-7520	258	15-1982	179	117-568	57
13-7522	258	18-3213	12	117-576A	334
13-7524	258	18-3214	12	117-577	332
13-7526	258	18-3215	12	117-578	332
13-7528	258	18-3505	8	117-582	333
13-7530	258	18-3510	8	117-583	334
13-7532	258	18-3515	8	117-585	335
13-7533	258	18-3519	8	117-588	335
13-7600	257	18-3520	9	117-593	335
13-7610	257	18-3525	9	117-594	335
13-7620	259	18-3530	9	117-5781	332
13-7700	259	18-3560	13	123-600	144

123-601	144	136-637	102	136-706	100
123-603	144	136-639	102	136-708	100
123-605	144	136-640	102	136-711	101
123-606	144	136-641	102	136-712	101
123-608	144	136-642	102	136-730	96
123-610	144	136-643	102	136-732	97
123-611	144	136-644	102	136-735	96
123-615	144	136-645	102	136-737	97
123-616	144	136-646	102	136-738	96
123-617	144	136-648	102	136-740	96
123-618	144	136-649	102	136-742	97
123-619	144	136-650	102	136-746	96
130-515	141	136-652	102	136-748	97
130-517	150	136-653	102	136-766	93
130-518	150	136-659	116	136-767	93
130-521	154	136-659D	116	136-771	93
130-523	154	136-660	112	136-773	93
130-525	154	136-660A	112	136-775	93
130-526	154	136-661	112	136-776	93
130-527	151	136-662	112	136-6508	102
130-529	151	136-662T	112	136-6601	112
130-531	151	136-663	112	136-6621T	112
132-115	151	136-664	113	136-6741	107
132-118	151	136-664D	113	136-6861	114
132-120	151	136-665	113	136-6891	115
132-122	151	136-666	108	140-198	112
132-123	151	136-667	108	140-201	112
132-125	151	136-668	108	140-202	110
132-207	155	136-668A	109	140-203	110
132-208	155	136-669	108	140-204	113
132-208A	155	136-671A	117	140-205	113
132-209	171	136-671B	117	140-207	110
132-209L	171	136-671C	117	140-297	113
132-210	154	136-671D	117	140-298	113
132-212	154	136-672	108	140-298T	106
132-214	154	136-674	109	140-299	112
132-216	154	136-674D	109	140-301	112
132-218	154	136-675	116	140-302	109
132-223	154	136-676	108	140-302D	109
132-224	154	136-677	116	140-302F	109
132-225	154	136-678	111	140-303	110
132-298	167	136-678L	111	140-303F	109
132-372	150	136-678P	116	140-304	110
132-373	150	136-679	109	140-304F	110
132-374	150	136-679S	111	140-304T	106
132-388	154	136-680	105	140-305	110
136-578	105	136-682	108	140-305F	110
136-580	105	136-682P	108	140-306	110
136-600	104	136-683	108	140-307	110
136-602	104	136-684	105	140-309	110
136-605	104	136-686	115	140-350	100
136-607	104	136-686D	115	140-352	100
136-610	104	136-687	115	140-354	100
136-612T	99	136-688	115	140-358	100
136-613	104	136-688S	115	140-360	100
136-615	104	136-688T	107	140-362	100
136-616T	99	136-689	115	140-364	100
136-617	104	136-690	93	140-366	100
136-619	104	136-691	93	140-368	100
136-621	102	136-692	93	140-369	100
136-624	102	136-694	93	140-372	92
136-626	102	136-695	93	140-374	92
136-626F	102	136-697	115	140-376	99
136-629	102	136-698	115	140-378	99
136-632	102	136-699	107	140-379	99
136-632B	102	136-700	115	140-382	101
136-633	102	136-701	100	140-389	90
136-634	102	136-702	100	140-419A	262
136-636	102	136-704	100	140-421	299

140-423	143	180-441	412	350-861B	306
140-423B	143	180-442	412	350-862	306
140-500	105	180-443	412	350-862B	306
140-502	105	180-444	412	350-863	306
140-504A	104	180-4291	413	350-864	306
140-504B	104	180-4311	413	400-238	204
140-505T	104	199-365	106	400-239	204
140-517	99	199-365S	106	400-240	204
140-517G	99	199-365T	106	400-241	204
140-517M	99	199-368	106	400-242	204
140-519	99	205-849	226	400-243	204
140-519G	99	205-849B	226	400-244	204
140-519M	99	205-856	233	400-245	204
140-3032	110	205-857	233	400-246	204
140-3042	110	205-858	233	400-247	204
140-3821	101	205-859	233	400-248	204
142-103	94	205-860	233	400-249	204
142-104	94	205-861	233	400-250	189
142-106	94	207-302	227	400-252	189
142-107	94	207-350	227	400-254	189
142-108	94	207-352	227	400-256	189
142-110	94	207-354	227	400-270	294
142-111	94	207-356	227	400-271	294
142-113	93	207-417	224	400-272	294
142-114	93	207-418	224	400-273	294
150-307	128	207-419-10	224	400-274	294
150-315	128	207-419-12	224	400-380	80
150-348	124, 125	207-420	225	400-381	80
150-349	124, 125	207-421	225	400-382	80
150-350	124, 125	207-422	225	400-383	80
150-351	124, 125	207-422L	225	400-384	80
150-353	124, 125	207-423	225	400-385	80
150-355	124, 125	207-423A	225	400-386	80
150-356	124	207-423L	225	400-387	80
150-357	124	207-424	225	400-428	335
150-358	124	207-424L	225	400-428A	335
150-359	124	207-425	225	400-431T	318
150-361	124	207-426	225	400-436T	318
180-373	347	207-427	225	400-437T	318
180-374	347	207-428	225	400-438T	318
180-375	347	207-429	225	400-445	336
180-376	347	207-431	225	400-445C	336
180-377	347	207-454	233	400-445L	336
180-378	347	207-455	233	400-446	336
180-379	347	207-456	233	400-446L	336
180-380	347	207-460	233	400-447	336
180-381	347	207-461	233	400-447L	336
180-382	347	207-462	233	400-448	336
180-403	347	207-463	233	400-448L	336
180-404	347	207-464	233	400-461T	338
180-405	347	207-465	233	400-462T	338
180-406	347	207-466	233	400-463T	338
180-407	347	207-467	233	400-464T	338
180-408	347	207-468	233	400-465T	338
180-409	347	207-469	233	412-319	138
180-410	347	207-470	233	412-321	138
180-411	347	207-471	233	412-545	319
180-412	347	207-472	233	412-546	319
180-429	413	207-473	233	412-547	320
180-429B	413	207-474	233	412-547T	320
180-429C	413	230-511	219	412-548	320
180-429CB	413	230-518-1	221	T412-548	320
180-431	413	230-518-2	221	412-549	320
180-431C	413	230-518-3	221	T412-549	320
180-432	351	230-518-4	221	412-550	320
180-433	351	230-518-5	221	412-551	320
180-436	351	230-518C-SET	220	T412-551	320
180-439	351	230-518-SET	220	412-552	320
180-440	350	350-861	306	412-552T	320

412-610	230	416-203	373	475-179	302
412-612	230	416-205	373	475-181	302
412-614	230	416-207	373	475-183	305
412-671	351	416-209	373	475-183D	305
412-677L	346	416-211	373	475-184	303
412-677M	346	416-213	373	475-185	304
412-678	346	416-215	374	475-186	304
412-678L	346	416-217	374	475-187	304
412-678M	346	416-219	374	475-188	304
412-679	346	416-221	374	475-188D	305
412-679L	346	416-223	374	475-188DS	305
412-680	346	416-700	370	475-490	114
412-680L	346	416-860	375	475-492	114
412-680M	346	416-862	375	475-855	350
412-681	346	416-864	375	478-360	350
412-681L	346	416-866	375	485-634	140
412-681M	346	421-635	278	485-636	140
412-682	346	421-636	278	485-646	140
412-682L	346	430-350	326	485-648	140
412-682M	346	430-352	326	508-536	339
412-683	346	430-354	326	508-538	339
412-683L	346	430-356	327	508-542	339
412-683M	346	430-358	327	508-543	339
412-684	346	430-360	327	508-547	339
412-684L	346	430-362	327	508-607	280
412-684M	346	430-366	410	508-608	280
412-685	346	438-521	130	508-609	281
412-685L	346	438-523	130	508-610	279
412-685M	346	438-591	140	508-611	278
412-686	346	438-592	140	508-612	281
412-686L	346	440-286	279	508-617	248
412-686M	346	440-288	279	508-620	278
412-688	346	440-300	279	508-621	279
412-688M	346	440-301	279	508-636	309
412-689	346	440-302	279	508-637	309
412-705	346	440-303	279	508-638	309
412-839	348	440-304	279	508-639	309
412-840	348	440-305	279	508-6207	280
412-841	348	440-352	45	516-828	376
412-844	348	440-354	45	516-831	376
412-845	348	440-356	45	1100-105A	175
412-846	348	440-358	45	1100-105D	175
412-847	348	440-360	45	1100-106D	175
412-848	348	440-362	45	1100-106DL	175
412-849	348	440-364	45	1100-114L	151
412-850	348	440-370	45	1100-122	166
412-851	348	440-372	45	1100-124D	175
412-852	348	440-374	45	1100-126D	175
412-853	349	440-376	45	1100-128D	175
412-854	349	440-378	45	1100-140L	135
412-855	349	440-380	45	1100-165	102
412-856	349	440-382	45	1100-167	102
412-857	349	440-420	319	1100-169	102
412-858	349	440-421	319	1100-179	102
412-859	349	440-423	319	1100-183	86
412-860	349	442-210	89	1100-185	107
412-861	349	442-212	89	1100-187	102
413-015	340	442-214	89	1100-235	248
413-015S	340	442-215	89	1100-276	249
413-016	340	442-216	89	1100-282	249
413-016S	340	442-219	89	1100-344	257
413-017	341	442-236	86	1100-346	257
413-017S	341	442-238	86	1100-392	150
413-018	341	442-238P	86	1100-668	226
413-018S	341	442-239	86	1100-668B	226
413-019	340	442-240	86	1100-668T	226
413-019S	340	442-876	324	1100-669	226
416-200	370, 371	442-877	325	1100-669B	226
416-201	372	475-178	302	1100-670	227

1100-732	98	1200-76M	241	1200-787	241
1100-733	98	1200-259	250	1200-788	244
1100-735F	115	1200-268	240	1200-790	244
1100-739A	104	1200-269	240	1200-911	247
1100-739B	104	1200-270	240	1200-912	247
1100-740	332	1200-326	238	1200-915	247
1100-741	332	1200-328	238	1200-916	247
1100-742	334	1200-330	238	1200-930	256
1100-798	328	1200-330L	238	1200-935	254
1100-798A	328	1200-332	238	1200-937	254
1100-798B	329	1200-334	238	1200-945	308
1100-798C	329	1200-335	238	1200-970	302
1100-798D	329	1200-340	238	1200-970D	302
1100-798E	328	1200-342	239	1200-985	255
1100-798F	328	1200-342H	239	1200-986	255
1100-798G	328	1200-342L	239	1271-560	381
1100-798H	330	1200-344	239	2100-143	32
1100-798S	328	1200-347	238	2100-145	32
1100-851	151	1200-348	300	2100-268	32
1100-853	151	1200-360	239	2100-270	32
1100-854	151	1200-362	239	2100-272	32
1100-866	333	1200-490	256	2100-399	46
1100-868	333	1200-491	256	2100-400	38
1100-870	334	1200-497	253	2100-402	38
1100-872	334	1200-499	256	2100-405	38
1100-7334	98	1200-500	246	2100-407	38
1100-7335	98	1200-501	246	2100-410	38
1100-7411	332	1200-502	259	2100-412	38
1103-152	176	1200-503	259	2100-415	38
1103-153	176	1200-505	246	2100-417	38
1103-154S	176	1200-507	246	2100-420	40
1103-702	11	1200-510	246	2100-422	40
1103-702D	11	1200-512	246	2100-425	40
1103-703	11	1200-514	246	2100-427	40
1103-705	11	1200-515	246	2100-430	40
1103-710	11	1200-520	246	2100-432	40
1103-712	10	1200-526	246	2100-435	40
1103-715	11	1200-526S	246	2100-437	40
1103-716	11	1200-529	246	2100-450	38
1103-717	10	1200-530	246	2100-452	38
1103-717D	10	1200-531	246	2100-453	38
1103-723	11	1200-535	246	2100-454	38
1103-724	11	1200-536	246	2100-455	39
1103-808	116	1200-537	246	2100-456	39
1103-809	116	1200-538	246	2100-457	39
1103-810	116	1200-543	249	2100-458	39
1103-811	117	1200-548	249	2100-459	39
1103-811T	117	1200-704	256	2100-460	39
1103-812	116	1200-706	256	2100-461	39
1103-812T	106	1200-708	253	2100-462	39
1103-815	139	1200-733	249	2100-464	38
1103-816	139	1200-735	249	2100-466	39
1103-817	139	1200-750	241	2100-482A	48
1103-818	139	1200-752	241	2100-482B	48
1103-887	202	1200-760	241	2100-482C	48
1103-887C	202	1200-762	241	2100-482D	48
1103-888	202	1200-764	260	2100-483A	48
1103-888C	202	1200-766	260	2100-483B	48
1200-011	260	1200-770	242	2100-483C	48
1200-011C	260	1200-775	257	2100-483D	48
1200-020	257	1200-775M	241	2100-484A	48
1200-021	257	1200-776	257	2100-484B	48
1200-022	257	1200-776M	241	2100-484C	48
1200-023	257	1200-776S	257	2100-484D	48
1200-025	259	1200-780	241	2100-485A	48
1200-026	259	1200-782	241	2100-485B	48
1200-028	259	1200-783	241	2100-485C	48
1200-062	256	1200-784	241	2100-485D	48
1200-064	256	1200-786	241	2100-486A	48

2100-486B	48	2100-566	51	2100-591D	49
2100-486C	48	2100-566D	51	2100-592A	49
2100-486D	48	2100-575A	49	2100-592B	49
2100-487A	48	2100-575B	49	2100-592C	49
2100-487B	48	2100-575C	49	2100-592D	49
2100-487C	48	2100-575D	49	2100-650	50
2100-487D	48	2100-576A	49	2100-652	50
2100-488A	48	2100-576B	49	2100-654	50
2100-488B	48	2100-576C	49	2100-656	50
2100-488C	48	2100-576D	49	2100-657	51
2100-488D	48	2100-577A	49	2100-658	51
2100-489A	48	2100-577B	49	2100-659	51
2100-489B	48	2100-577C	49	2100-685	390
2100-489C	48	2100-577D	49	2100-686	390
2100-489D	48	2100-578A	49	2100-687	390
2100-490A	48	2100-578B	49	2100-688	390
2100-490B	48	2100-578C	49	2100-730	54
2100-490C	48	2100-578D	49	2100-732	55
2100-490D	48	2100-579A	49	2100-732L	55
2100-491A	48	2100-579B	49	2100-733	56
2100-491B	48	2100-579C	49	2100-755	52
2100-491C	48	2100-579D	49	2100-756	52
2100-491D	48	2100-580A	49	2100-757	52
2100-492A	48	2100-580B	49	2100-771	393
2100-492B	48	2100-580C	49	2100-772	393
2100-492C	48	2100-580D	49	2100-773	397
2100-492D	48	2100-581A	49	2100-774	394
2100-493A	48	2100-581B	49	2100-774CR	394
2100-493B	48	2100-581C	49	2100-778	393
2100-493C	48	2100-581D	49	2100-781	53
2100-493D	48	2100-582A	49	2100-782	53
2100-494A	48	2100-582B	49	2100-783	53
2100-494B	48	2100-582C	49	2100-784	53
2100-494C	48	2100-582D	49	2100-785	53
2100-494D	48	2100-583A	49	2100-800	41
2100-495A	48	2100-583B	49	2100-802	41
2100-495B	48	2100-583C	49	2100-804	41
2100-495C	48	2100-583D	49	2100-806	41
2100-495D	48	2100-584A	49	2100-810	41
2100-496A	48	2100-584B	49	2100-812	41
2100-496B	48	2100-584C	49	2100-814	41
2100-496C	48	2100-584D	49	2100-816	41
2100-496D	48	2100-585A	49	2100-818	392
2100-497A	48	2100-585B	49	2100-819	392
2100-497B	48	2100-585C	49	2100-820	396
2100-497C	48	2100-585D	49	2100-820R	396
2100-497D	48	2100-586A	49	2100-821	396
2100-498A	48	2100-586B	49	2100-821R	396
2100-498B	48	2100-586C	49	2100-822	400
2100-498C	48	2100-586D	49	2100-822A	400
2100-498D	48	2100-587A	49	2100-823	398
2100-499A	48	2100-587B	49	2100-824	401
2100-499B	48	2100-587C	49	2100-824A	401
2100-499C	48	2100-587D	49	2100-825	402
2100-499D	48	2100-588A	49	2100-826	402
2100-500	37	2100-588B	49	2100-829	411
2100-502	37	2100-588C	49	2100-831	397
2100-504	34	2100-588D	49	2100-831A	397
2100-505	34	2100-589A	49	2100-835	42
2100-506	33	2100-589B	49	2100-836	42
2100-507	33	2100-589C	49	2100-837	42
2100-510	37	2100-589D	49	2100-838	42
2100-512	34	2100-590A	49	2100-839	42
2100-514	34	2100-590B	49	2100-840	42
2100-515	35	2100-590C	49	2100-841	42
2100-516	34	2100-590D	49	2100-842	42
2100-522	35	2100-591A	49	2100-843	42
2100-525	36	2100-591B	49	2100-875	43
2100-526	36	2100-591C	49	2100-883	394

2100-884	394	2200-092	88	2200-163	77
2100-933	391	2200-096	88	2200-164	77
2100-934	391	2200-097	88	2200-164A	77
2100-935	391	2200-098	88	2200-165	77
2100-936	395	2200-098P	88	2200-166	82
2100-936S	395	2200-099	88	2200-166A	82
2100-6881	390	2200-099P	88	2200-168	77
2100-8211	396	2200-100	88	2200-168A	77
2100-8211R	396	2200-101	87	2200-170	82
2100-8231	398	2200-101A	87	2200-171B	78
2100-8232	398	2200-101F	89	2200-171C	78
2100-8234	398	2200-102	87	2200-172	77
2100-8234A	398	2200-102A	87	2200-173B	83
2100-8235	399	2200-102F	89	2200-173C	83
2100-8236	399	2200-103	87	2200-0175	94
2100-8238	398	2200-103A	88	2200-176	82
2100-8238A	398	2200-103F	89	2200-177	82
2100-8245	400	2200-104	87	2200-178B	78
2200-001	120	2200-104F	89	2200-178C	78
2200-001T	119	2200-105	87	2200-179B	83
2200-002	120	2200-105A	87	2200-179C	83
2200-003	120	2200-105B	87	2200-180	76
2200-003T	119	2200-105C	90	2200-181	76
2200-0006	120	2200-106	88	2200-182	76
2200-007	120	2200-107	87	2200-183	76
2200-007T	121	2200-107A	88	2200-184	76
2200-0012T	119	2200-107B	90	2200-186	76
2200-013	120	2200-107C	88	2200-190	76
2200-0013T	119	2200-107P	87	2200-191	76
2200-014	120	2200-108	87	2200-192	76
2200-015	94	2200-108A	88	2200-193	76
2200-016	94	2200-108B	90	2200-194	76
2200-017	94	2200-108P	87	2200-196	76
2200-018	94	2200-109	87	2200-197A	78
2200-024	76	2200-109B	90	2200-197B	78
2200-026	76	2200-110	87	2200-197C	78
2200-029	96	2200-110P	87	2200-197D	78
2200-030	96	2200-111	87	2200-198	75
2200-032	96	2200-111P	87	2200-198A	75
2200-034	96	2200-112	87	2200-199A	79
2200-036	96	2200-113	87	2200-199B	79
2200-040	96	2200-114	86	2200-199C	79
2200-041	96	2200-115	101	2200-199D	79
2200-042	96	2200-117A	101	2200-199E	79
2200-043	96	2200-126	98	2200-199F	79
2200-044	96	2200-129	92	2200-200	74
2200-045	96	2200-130	92	2200-202	74
2200-046	96	2200-131	92	2200-204	74
2200-047	96	2200-132	92	2200-204Y	80
2200-058	115	2200-133	92	2200-206	74
2200-060	115	2200-134	92	2200-207	78
2200-062	115	2200-135	92	2200-207B	78
2200-064	115	2200-136	92	2200-207C	78
2200-073B	97	2200-137	92	2200-207D	78
2200-073C	97	2200-138	92	2200-207Y	80
2200-073D	97	2200-140	92	2200-208	74
2200-074	88	2200-141	92	2200-209	74
2200-074B	97	2200-141A	92	2200-210	74
2200-075	88	2200-142	92	2200-211	74
2200-076	88	2200-144	92	2200-212	74
2200-077	88	2200-145	92	2200-212Y	80
2200-078	88	2200-146	92	2200-214	74
2200-079	88	2200-152	90	2200-215	78
2200-080	88	2200-152N	90	2200-215B	78
2200-081	88	2200-154	92	2200-215Y	80
2200-085	88	2200-155	92	2200-216	74
2200-090	88	2200-158	79	2200-218	74
2200-090P	88	2200-159	79	2200-220	74
2200-091	88	2200-160	77	2200-222	74

2200-224	74	2200-519	129	2300-032	190
2200-228	128	2200-520	123	2300-034	190
2200-230	81	2200-521	126	2300-036	190
2200-232	81	2200-522	123	2300-038	190
2200-234	81	2200-523	128	2300-040	190
2200-235	81	2200-523A	126	2300-040S	190
2200-236	81	2200-524	128	2300-042	190
2200-237	81	2200-525	128	2300-042S	190
2200-238	83	2200-526	128	2300-046	205
2200-239	83	2200-527	128	2300-047	205
2200-240	83	2200-529	131	2300-048	188
2200-241	83	2200-530	125	2300-049	188
2200-250	81	2200-532	125	2300-050	180
2200-252	81	2200-534	125	2300-052	180
2200-254	81	2200-536	125	2300-054	180
2200-256	81	2200-537	128	2300-056	180
2200-258	81	2200-538	128	2300-058	180
2200-260	81	2200-539	128	2300-060	180
2200-262	83	2200-540	125	2300-062	180
2200-264	83	2200-542	125	2300-064	180
2200-266	83	2200-544	125	2300-066	180
2200-268	83	2200-546	128	2300-068	180
2200-270	81	2200-547	128	2300-070	180
2200-271	81	2200-548	128	2300-072	180
2200-272	81	2200-550	126	2300-074	180
2200-277	83	2200-552	132	2300-074H	184
2200-278W	75	2200-553	122	2300-074M	184
2200-279W	75	2200-554	128	2300-076	180
2200-280W	75	2200-555	128	2300-077	180
2200-280X	74	2200-556	128	2300-078	180
2200-281X	74	2200-575	122	2300-080	180
2200-282W	75	2200-589	145	2300-080A	180
2200-283W	75	2200-593	145	2300-081	181
2200-284W	75	2200-594	145	2300-081A	181
2200-285W	75	2200-596	145	2300-081C	181
2200-286W	75	2200-597	145	2300-081H	184
2200-376	95	2200-598	145	2300-082	181
2200-377	95	2200-599	145	2300-082A	181
2200-377W	95	2300-600	145	2300-082C	181
2200-378	95	2200-700	105	2300-082D	181
2200-382	94	2200-750	103	2300-083	181
2200-383	98	2200-752	103	2300-084	181
2200-387	98	2200-789	98	2300-084A	181
2200-389	98	2200-790	98	2300-084AH	184
2200-394	98	2200-0902	88	2300-084C	181
2200-396	98	2200-0912	88	2300-084D	181
2200-420	129	2200-0922	88	2300-085	181
2200-422	129	2200-1112	87	2300-086	181
2200-424	129	2200-1112B	90	2300-086H	184
2200-426	129	2200-1112P	87	2300-087	181
2200-430	127	2200-1132	87	2300-087C	181
2200-431	123	2200-1132A	88	2300-093	186
2200-435	123, 127	2200-1132B	90	2300-093C	186
2200-440	127	2200-1133	87	2300-093D	186
2200-0459	96	2200-1151	101	2300-093E	186
2200-460	131	2200-1365	92	2300-094	186
2200-461	131	2200-2301	81	2300-095	186
2200-462	131	2200-2321	81	2300-096	186
2200-463	131	2200-2342	81	2300-097	186
2200-464	131	2200-2352	81	2300-098	186
2200-465	131	2200-2361	81	2300-099	186
2200-480	130	2200-2371	81	2300-100	186
2200-482	130	2205-650	96	2300-101	186
2200-490	130	2205-655	96	2300-126	192
2200-492	130	2300-020	190	2300-126S	199
2200-496	130	2300-022	190	2300-128	192
2200-516	129	2300-024	190	2300-128S	199
2200-517	129	2300-026	190	2300-130	192
2200-518	129	2300-030	190	2300-130S	199

2300-132S	199	2300-315	165	2300-447	200
2300-134	192	2300-316	162	2300-447B	201
2300-134M	198	2300-317	162	2300-447D	200
2300-134S	199	2300-319	162	2300-448	201
2300-135	191	2300-321	162	2300-448D	201
2300-135M	198	2300-322	162	2300-450	163
2300-136	192	2300-323	162	2300-452	163
2300-136S	199	2300-328	151	2300-454	163
2300-137	191	2300-340	161	2300-456	163
2300-138	192	2300-341	161	2300-466	172
2300-138S	199	2300-342	161	2300-468	172
2300-139	191	2300-343	161	2300-474	168
2300-140	192	2300-344	161	2300-476	168
2300-140S	199	2300-345	161	2300-481	188
2300-141	191	2300-346	161	2300-486L	173
2300-142	192	2300-347	161	2300-486R	173
2300-143	191	2300-348	161	2300-0496	205
2300-143M	198	2300-350	160	2300-0497	205
2300-144	192	2300-352	160	2300-0498	205
2300-145	191	2300-354	160	2300-499	172, 205
2300-146	192	2300-356	160	2300-500	172
2300-147	191	2300-358	160	2300-516	150
2300-148	192	2300-360	160	2300-518	150
2300-149	191	2300-362	160	2300-520	150
2300-150S	199	2300-364	160	2300-521	150
2300-151	191	2300-366	160	2300-561	174
2300-151M	198	2300-368	160	2300-562	174
2300-152S	199	2300-370	160	2300-564	174
2300-153	191	2300-372	160	2300-565	174
2300-154	192	2300-374	160	2300-592	174
2300-154S	199	2300-378	154	2300-593	174
2300-154U	192	2300-384S	154	2300-594	174
2300-155	191	2300-388S	154	2300-600	176
2300-156	192	2300-390S	154	2300-601	176
2300-156S	199	2300-394S	154	2300-602	176
2300-157	191	2300-396S	154	2300-604	176
2300-158	198	2300-399	156	2300-650	169
2300-160	198	2300-400	156	2300-652	169
2300-162	198	2300-401	156	2300-654	169
2300-164	198	2300-402	156	2300-656	169
2300-166	199	2300-404	156	2300-659	169
2300-168	199	2300-406	156	2300-660	169
2300-170	199	2300-408	157	2300-660F	168
2300-172	199	2300-410	157	2300-661	169
2300-194	177	2300-412	157	2300-662	169
2300-195	177	2300-426	171	2300-663	169
2300-196	177	2300-430	171	2300-664	169
2300-219	191	2300-432	171	2300-665	169
2300-220	191	2300-433	171	2300-666	169
2300-221	191	2300-434	167	2300-670	170
2300-298	166	2300-436	167	2300-671	170
2300-300	166	2300-438	167	2300-672	170
2300-300S	166	2300-439	200	2300-673	170
2300-301	166	2300-439B	201	2300-674	170
2300-302	166	2300-439D	200	2300-675	170
2300-302S	166	2300-440	167	2300-679	170
2300-304	166	2300-441	200	2300-714	152
2300-304S	166	2300-441B	201	2300-716	152
2300-306	166	2300-441D	200	2300-718	152
2300-306S	166	2300-442	201	2300-718N	152
2300-307	165	2300-442D	201	2300-720	152
2300-308	166	2300-443	200	2300-723	152
2300-308S	166	2300-443B	201	2300-726	152
2300-309	165	2300-443D	200	2300-730	152
2300-310	165	2300-444	201	2300-899	405
2300-310L	165	2300-444D	201	2300-900	404
2300-311	165	2300-445	201	2300-901	405
2300-313	165	2300-446	201	2300-902	404
2300-314	162	2300-446D	201	2300-903	405

2300-904	404	2400-210	250	2400-428	307
2300-905	405	2400-210B	250	2400-433	308
2300-1401	192	2400-211	250	2400-435	307
2300-1510S	199	2400-211B	250	2400-438	308
2300-1530S	199	2400-212	250	2400-439	308
2300-1540	192	2400-213	250	2400-440	308
2300-1541	192	2400-214	250	2400-442	308
2300-1560	192	2400-215	250	2400-452	276
2300-1561	192	2400-216	250	2400-453	276
2300-3132	165	2400-217	250	2400-454	276
2400-001	276	2400-218	250	2400-455	276
2400-002	276	2400-222	248	2400-456	276
2400-005	276	2400-223	248	2400-457	276
2400-010	258	2400-225	249	2400-510	283
2400-012	258	2400-226	248, 249	2400-512	283
2400-015	258	2400-227	248, 249	2400-514	283
2400-017	258	2400-247	246	2400-516	283
2400-074	277	2400-248	246	2400-535	295
2400-076	277	2400-259	246	2400-537	295
2400-078	277	2400-281	246	2400-538	295
2400-080	277	2400-286	238	2400-539	295
2400-082	277	2400-287	238	2400-541	295
2400-084	277	2400-302	240	2400-542	296
2400-086	277	2400-304	240	2400-544	296
2400-088	277	2400-306	240	2400-545	296
2400-090	277	2400-308	240	2400-547	296
2400-091	277	2400-309	240	2400-550	283
2400-092	277	2400-310	240	2400-619A	289
2400-093	277	2400-311	240	2400-619B	289
2400-114	265	2400-314	238	2400-619C	289
2400-115	266	2400-315	238	2400-619D	289
2400-116	266	2400-316	238	2400-619E	289
2400-117	266	2400-317	239	2400-619F	289
2400-119	266	2400-318	239	2400-620A	289
2400-120	266	2400-319	239	2400-620B	289
2400-121	266	2400-321	240	2400-620C	289
2400-123	266	2400-322	240	2400-620D	289
2400-124	266	2400-323	240, 300	2400-620F	289
2400-125	266	2400-324	300	2400-621A	289
2400-127	266	2400-324S	300	2400-621B	289
2400-129	266	2400-325	297	2400-621C	289
2400-130	266	2400-325D	301	2400-621D	289
2400-131	266	2400-326	300	2400-621E	289
2400-133	266	2400-327	300	2400-621F	289
2400-135	266	2400-329	297	2400-622A	289
2400-136	266	2400-329D	301	2400-622B	289
2400-140	268	2400-330	239	2400-622C	289
2400-141	273	2400-331	297	2400-622D	289
2400-142	268	2400-331S	297	2400-626	285
2400-143	273	2400-332	297	2400-627	285
2400-144	268	2400-333	297	2400-629	285
2400-145	273	2400-334	297	2400-631	285
2400-146	268	2400-335	297	2400-633	285
2400-147	273	2400-360	257	2400-635	290
2400-148	268	2400-362	257	2400-640	290
2400-149	273	2400-365	255	2400-642	290
2400-157	264	2400-367	255	2400-646	290
2400-159	264	2400-374	314	2400-648	290
2400-161	264	2400-375	314	2400-650	283
2400-163	264	2400-376	314	2400-652	283
2400-165	264	2400-377	314	2400-654	283
2400-166	264	2400-379	314	2400-656	283
2400-172	264	2400-380D	315	2400-658	284
2400-175	265	2400-381	314	2400-659	284
2400-176	265	2400-383	314	2400-660	286
2400-177	265	2400-383S	314	2400-661	293
2400-178	265	2400-385	314	2400-661F	286
2400-208	250	2400-396	306	2400-662	286
2400-209	250	2400-397	306	2400-663	293

2400-663F	286	2400-740A	270	2400-829D	301
2400-664	286	2400-740L	271	2400-830	297
2400-665	293	2400-741C	272	2400-830D	301
2400-665F	286	2400-741L	271	2400-831	297
2400-666	286	2400-742	269	2400-831D	301
2400-667	293	2400-742A	270	2400-832	297
2400-667F	286	2400-743C	272	2400-832D	301
2400-669	293	2400-743L	271	2400-833	297
2400-669F	286	2400-744	269	2400-833D	301
2400-670	293	2400-744A	270	2400-834	297
2400-670F	286	2400-745C	272	2400-835	297
2400-671	290	2400-745L	271	2400-841	248
2400-672	290	2400-746	269	2400-869	299
2400-673	286	2400-746A	270	2400-869A	299
2400-674	286	2400-747C	272	2400-870	263
2400-674C	286	2400-747L	271	2400-871	263
2400-675	286	2400-748	269	2400-872	263
2400-675B	292	2400-748A	270	2400-875	312
2400-676	286	2400-749C	272	2400-877	312
2400-676B	292	2400-749L	271	2400-879	313
2400-677	286	2400-750	264	2400-881	313
2400-678	286	2400-752	264	2400-888	262
2400-678B	292	2400-760	275	2400-889	262
2400-679	286	2400-761	274	2400-890	262
2400-679B	292	2400-762	275	2400-891	262
2400-680	286	2400-763	274	2400-895	311
2400-680B	292	2400-764	275	2400-896	311
2400-680C	286	2400-765	274	2400-920	250
2400-681	293	2400-766	275	2400-922	250
2400-681C	293	2400-767	274	2400-924	250
2400-682	293	2400-768	275	2400-926	250
2400-683	293	2400-769	275	2400-928	250
2400-683C	293	2400-785	243	2400-995	310
2400-684	293	2400-787	243	2400-996	310
2400-684C	293	2400-790	242	2400-997	310
2400-685	284	2400-792	242	2400-997F	310
2400-686	293	2400-797	244	2400-3751	314
2400-687	284	2400-798	245	2400-5180	290
2400-688	293	2400-800	245	2400-5181	290
2400-689	293	2400-801	245	2400-5190	290
2400-690	293	2400-802	245	2400-5191	290
2400-690B	287	2400-803	245	2400-6261	285
2400-692	293	2400-804	245	2400-6271	285
2400-692B	287	2400-805	245	2400-6291	285
2400-693	288	2400-806	245	2400-6311	285
2400-693B	287	2400-807	245	2400-6331	285
2400-694	293	2400-808	245	2400-6342	291
2400-694B	287	2400-809	245	2400-6343	291
2400-696	293	2400-811	245	2400-6344	291
2400-696B	287	2400-812A	241	2400-6345	291
2400-697B	287	2400-813A	241	2400-6356	290
2400-698	293	2400-814A	241	2400-6372	291
2400-698B	287	2400-815A	241	2400-6373	291
2400-699B	287	2400-816	242	2400-6374	291
2400-710	258	2400-819	245	2400-6375	291
2400-711	259	2400-820	245	2400-6382	291
2400-712	258	2400-821	245	2400-6383	291
2400-713	259	2400-822	245	2400-6384	291
2400-715	259	2400-823S	300	2400-6385	291
2400-717	259	2400-824	300	2400-6500	284
2400-728	307	2400-824S	300	2400-6520	284
2400-729	307	2400-825	297	2400-6571	284
2400-730	276	2400-825D	301	2400-6572	284
2400-731	276	2400-826	300	2400-6608	292
2400-733	308	2400-826D	301	2400-6618	286
2400-735	277	2400-827	300	2400-6628	292
2400-736	277	2400-827S	300	2400-6638	286
2400-739	308	2400- 828D	301	2400-6648	292
2400-740	269	2400-829	297	2400-6658	286

2400-6668	292	2500-003	229	2500-404	231
2400-6678	286	2500-005	229	2500-406	231
2400-6698	286	2500-007	229	2500-408	231
2400-6708	286	2500-009	229	2600-004	17
2400-6738	292	2500-011	229	2600-010	23
2400-6748	292	2500-013	228	2600-170	16
2400-6901	288	2500-014-SET	228	2600-175	16
2400-6908	288	2500-017	222	2600-192	20
2400-6921	288	2500-019	222	2600-194	20
2400-6971	288	2500-085	213	2600-215	19
2400-6977	288	2500-087	214	2600-217	19
2400-6978	288	2500-087B	214	2600-219	19
2400-7401	267	2500-089	214	2600-221	19
2400-7402	267	2500-093	217	2600-223	19
2400-7403	267	2500-095	213	2600-230	18
2400-7404	267	2500-095B	213	2600-232	18
2400-7405	267	2500-123	215	2600-234	18
2400-7410	267	2500-124	215	2600-250	132
2400-7411	267	2500-131	218	2600-251	132
2400-7412	267	2500-131L	218	2600-252	132
2400-7413	267	2500-135	216	2600-253	132
2400-7414	267	2500-137	216	2600-254	132
2400-7415	267	2500-141	324	2600-255	132
2400-8709	263	2500-142	324	2600-256	132
2400-8719	263	2500-143	324	2600-257	132
2400-8729	263	2500-206	208	2600-258	132
2405-324	300	2500-208	208	2600-259	132
2405-324S	300	2500-210	209	2600-302	106
2405-325	297	2500-213	210	2600-311	106
2405-325D	301	2500-215	211	2600-335	99
2405-326	300	2500-216	212	2600-339	99
2405-327	300	2500-216L	212	2600-340	85
2405-329	297	2500-280	223	2600-350	84
2405-329D	301	2500-300	223	2600-355	85
2405-330	297	2500-305	223	2600-357	85
2405-331	297	2500-310	223	2600-359	85
2405-332	297	2500-313	228	2600-361	85
2405-333	297	2500-313T	228	2600-364	85
2405-334	297	2500-315	228	2600-365	85
2405-335	297	2500-315T	228	2600-367	85
2405-824	300	2500-320	228	2600-369	85
2405-824S	300	2500-320T	228	2600-370	85
2405-825	298	2500-336	219	2600-371	85
2405-825D	301	2500-340	222	2600-375	85
2405-826	300	2500-345	222	2600-377	85
2405-827	300	2500-347T	222	2600-379	85
2405-828D	301	2500-349	222	2600-380	95
2405-829	298	2500-350	231	2600-381	95
2405-829D	301	2500-352	231	2600-382	95
2405-830	298	2500-354	231	2600-383	73
2405-830D	301	2500-356	231	2600-384	91
2405-831	298	2500-358	231	2600-385	91
2405-831D	301	2500-360	231	2600-385S	91
2405-832	298	2500-370	231	2600-387	91
2405-832D	301	2500-372	231	2600-388	91
2405-833	298	2500-374	231	2600-389	91
2405-834	298	2500-376	231	2600-391	103
2405-835	298	2500-378	231	2600-392	103
2405-912	407	2500-380	231	2600-409	134
2405-914	407	2500-384	231	2600-410	136
2405-918	407	2500-386	231	2600-411	134
2405-920	408	2500-388	231	2600-412	136
2405-923	408	2500-390	231	2600-415	133
2405-926	408	2500-392	231	2600-417	133
2405-945	410	2500-394	231	2600-421	73
2405-947	410	2500-396	231	2600-422	68
2405-949	410	2500-398	231	2600-423	68
2405-8259	301	2500-400	231	2600-424	68
2500-001	229	2500-402	231	2600-425	68

2600-426	72	2600-527	69	2600-662	193
2600-427	72	2600-528	69	2600-665	193
2600-428	72	2600-529	69	2600-666	193
2600-429	72	2600-529B	71	2600-667	193
2600-430	68	2600-529C	71	2600-668	193
2600-431	68	2600-530	68	2600-669	193
2600-471	67	2600-531	68	2600-682	203
2600-472	67	2600-532	68	2600-682C	203
2600-473	67	2600-533	68	2600-682L	203
2600-474	67	2600-534	68	2600-682S	203
2600-476	67	2600-534X	61	2600-683	203
2600-477	67	2600-535X	61	2600-683L	203
2600-478	67	2600-560	70	2600-684	203
2600-479	67	2600-560A	70	2600-684C	203
2600-480	70	2600-561	71	2600-684D	203
2600-482	64	2600-562	72	2600-684D5	203
2600-483	64	2600-563	72	2600-684DL	203
2600-488	65	2600-565	70, 85	2600-684L	203
2600-489	65	2600-570	70	2600-684S	203
2600-490	91	2600-570A	70	2600-685	158
2600-491	91	2600-571	71	2600-687	158
2600-492	91	2600-573	72	2600-689	158
2600-492P	91	2600-574	72	2600-691	158
2600-493	91	2600-575	63	2600-693	158
2600-493P	91	2600-580	63	2600-695	158
2600-493P1	91	2600-581	63	2600-697	158
2600-494	91	2600-582	64	2600-699	158
2600-494A	91	2600-585	63	2600-701	158
2600-494D	91	2600-586	63	2600-702	197
2600-495	91	2600-587	73	2600-704M	196
2600-496	91	2600-589	64	2600-706	198
2600-497	91	2600-590	66	2600-709	198
2600-500	62	2600-591	66	2600-710	197
2600-502	62	2600-592	63	2600-711	197
2600-503D	62	2600-594	66	2600-712	196
2600-503R	62	2600-595	66	2600-713	196
2600-504	62	2600-596	63	2600-718	197
2600-504N	62	2600-620	183	2600-730	188
2600-506	62	2600-622	183	2600-745	153
2600-506N	62	2600-624	183	2600-747	153
2600-508	62	2600-626	183	2600-749	153
2600-508W	60	2600-628	183	2600-751	153
2600-510	62	2600-629	183	2600-755	153
2600-511	62	2600-630	183	2600-757	153
2600-511W	60	2600-631	183	2600-759	153
2600-512	62	2600-632	183	2600-761	153
2600-512B	66	2600-634	183	2600-762	159
2600-512C	66	2600-636	183	2600-762C	159
2600-513	66	2600-638	183	2600-763	159
2600-514	66	2600-639	183	2600-763C	159
2600-515	61	2600-640	183	2600-764	159
2600-517	61	2600-641	183	2600-764C	159
2600-517W	60	2600-642	183	2600-765	159
2600-518	61	2600-643	193	2600-765C	159
2600-518B	66	2600-645	193	2600-766	159
2600-518C	66	2600-646	195	2600-766C	159
2600-518W	60	2600-647	193	2600-767	159
2600-519	61	2600-648	195	2600-767C	159
2600-521	61	2600-649	193	2600-775	161
2600-522	61	2600-650	193	2600-777	161
2600-522B	66	2600-651	193	2600-779	161
2600-522C	66	2600-652	193	2600-781	161
2600-523	69	2600-653	193	2600-790	164
2600-524	69	2600-654	193	2600-791	164
2600-525	69	2600-655	193	2600-792	164
2600-525C	69	2600-656	193	2600-793	164
2600-526	69	2600-657	193	2600-794	164
2600-526B	71	2600-658	193	2600-795	164
2600-526C	71	2600-661	193	2600-796	164

2600-797	164	2600-6536	194	2605-155B	29
2600-836	44	2600-6542	195	2605-155C	29
2600-837	44	2600-6546	194	2605-155D	29
2600-839	44	2600-6551	195	2605-156A	29
2600-840	44	2600-6553	193	2605-156B	29
2600-844	44	2600-6562	195	2605-156C	29
2600-845	44	2600-6563	193	2605-156D	29
2600-846	44	2600-6611	195	2605-157A	29
2600-847	44	2600-6622	195	2605-157B	29
2600-848	44	2600-6651	195	2605-157C	29
2600-849	44	2600-6662	195	2605-157D	29
2600-914	296	2600-6671	195	2605-158A	29
2600-916	296	2600-6673	193	2605-158B	29
2600-920	282	2600-6682	195	2605-158C	29
2600-920B	282	2600-6683	193	2605-158D	29
2600-926	282	2600-6692	195	2605-159A	29
2600-926B	282	2600-7621	159	2605-159B	29
2600-3611	84	2600-8365	44	2605-159C	29
2600-3641	84	2600-8395	44	2605-159D	29
2600-3651	84	2601-303	73	2605-160A	29
2600-3714	85	2601-304	73	2605-160B	29
2600-4221	68	2601-305	73	2605-160C	29
2600-4231	68	2601-306	73	2605-160D	29
2600-4301	68	2601-654	282	2605-161A	29
2600-4311	68	2601-656	282	2605-161B	29
2600-4732	67	2601-688	392	2605-161C	29
2600-5821	64	2601-770	397	2605-161D	29
2600-5860	84	2601-823	400	2605-162A	29
2600-5861	65	2601-825	403	2605-162B	29
2600-5862	84	2601-826	401	2605-162C	29
2600-5891	64	2601-827	403	2605-162D	29
2600-6201	182	2601-836	401	2605-163A	29
2600-6221	182	2601-8231	400	2605-163B	29
2600-6241	182	2601-8245	400	2605-163C	29
2600-6261	182	2605-090	24	2605-163D	29
2600-6281	182	2605-092	24	2605-164A	29
2600-6291	182	2605-100	26	2605-164B	29
2600-6301	182	2605-105	26	2605-164C	29
2600-6311	182	2605-110	26	2605-164D	29
2600-6321	182	2605-111	26	2605-165A	29
2600-6341	182	2605-115	26	2605-165B	29
2600-6361	182	2605-116	26	2605-165C	29
2600-6381	182	2605-120	27	2605-165D	29
2600-6391	182	2605-121	27	2605-166A	29
2600-6401	182	2605-125	27	2605-166B	29
2600-6411	182	2605-127	22	2605-166C	29
2600-6421	182	2605-135	23	2605-166D	29
2600-6431	195	2605-140	217	2605-167A	29
2600-6432	182	2605-150A	29	2605-167B	29
2600-6433	182	2605-150B	29	2605-167C	29
2600-6434	182	2605-150C	29	2605-167D	29
2600-6435	182	2605-150D	29	2605-170A	31
2600-6461	195	2605-151A	29	2605-170B	31
2600-6463	185	2605-151B	29	2605-170C	31
2600-6465	185	2605-151C	29	2605-170D	31
2600-6471	185	2605-151D	29	2605-171A	31
2600-6472	182	2605-152A	29	2605-171B	31
2600-6473	182	2605-152B	29	2605-171C	31
2600-6474	182	2605-152C	29	2605-171D	31
2600-6475	182	2605-152D	29	2605-172A	31
2600-6476	195	2605-153A	29	2605-172B	31
2600-6481	195	2605-153B	29	2605-172C	31
2600-6491	195	2605-153C	29	2605-172D	31
2600-6496	194	2605-153D	29	2605-173A	31
2600-6502	195	2605-154A	29	2605-173B	31
2600-6506	194	2605-154B	29	2605-173C	31
2600-6512	195	2605-154C	29	2605-173D	31
2600-6521	195	2605-154D	29	2605-174A	31
2600-6531	195	2605-155A	29	2605-174B	31

2605-174C.....	31	2605-290.....	21	2700-303R.....	353
2605-174D.....	31	2605-295.....	21	2700-304.....	352
2605-175A.....	31	2605-300.....	21	2700-306.....	352
2605-175B.....	31	2605-400.....	17	2700-307R.....	353
2605-175C.....	31	2605-405.....	17	2700-308.....	353
2605-175D.....	31	2605-410.....	17	2700-308R.....	353
2605-176A.....	31	2605-506.....	25	2700-309.....	350
2605-176B.....	31	2605-507.....	25	2700-390.....	351, 380
2605-176C.....	31	2700-001.....	323	2700-392.....	351, 380
2605-176D.....	31	2700-002.....	323	2700-394.....	351, 380
2605-177A.....	31	2700-002P.....	323	2700-410.....	330
2605-177B.....	31	2700-003.....	323	2700-412.....	330
2605-177C.....	31	2700-003P.....	323	2700-414.....	330
2605-177D.....	31	2700-004.....	323	2700-416.....	330
2605-178A.....	31	2700-004P.....	323	2700-424.....	330
2605-178B.....	31	2700-005.....	323	2700-426.....	330
2605-178C.....	31	2700-005P.....	323	2700-431.....	338
2605-178D.....	31	2700-006.....	323	2700-432.....	338
2605-179A.....	31	2700-006P.....	323	2700-433.....	338
2605-179B.....	31	2700-007.....	323	2700-450.....	337
2605-179C.....	31	2700-007P.....	323	2700-451.....	337
2605-179D.....	31	2700-008.....	323	2700-470.....	336
2605-180A.....	31	2700-008P.....	323	2700-470A.....	336
2605-180B.....	31	2700-009.....	323	2700-501.....	336
2605-180C.....	31	2700-009P.....	323	2700-502.....	336
2605-180D.....	31	2700-010.....	323	2700-740.....	331
2605-181A.....	31	2700-0010P.....	323	2700-741.....	331
2605-181B.....	31	2700-020.....	323	2700-742.....	331
2605-181C.....	31	2700-021.....	323	2700-744.....	331
2605-181D.....	31	2700-022.....	323	2700-752.....	331
2605-182A.....	31	2700-023.....	323	2700-754.....	331
2605-182B.....	31	2700-030.....	323	2700-755.....	331
2605-182C.....	31	2700-031.....	323	2700-790.....	331
2605-182D.....	31	2700-032.....	323	2700-792.....	331
2605-183A.....	31	2700-033.....	323	2700-794.....	331
2605-183B.....	31	2700-034.....	323	2700-796.....	331
2605-183C.....	31	2700-035.....	323	2800-010.....	356
2605-183D.....	31	2700-036.....	323	2800-010L.....	356
2605-184A.....	31	2700-037.....	323	2800-010S.....	356
2605-184B.....	31	2700-038.....	323	2800-015.....	357
2605-184C.....	31	2700-039.....	323	2800-015L.....	357
2605-184D.....	31	2700-050.....	323	2800-015S.....	357
2605-185A.....	31	2700-051.....	323	2800-017.....	357
2605-185B.....	31	2700-052.....	323	2800-017L.....	357
2605-185C.....	31	2700-053.....	323	2800-017S.....	357
2605-185D.....	31	2700-054.....	322	2800-020.....	357
2605-186A.....	31	2700-100.....	325	2800-020L.....	357
2605-186B.....	31	2700-120.....	322	2800-020S.....	357
2605-186C.....	31	2700-150.....	318	2800-021.....	357
2605-186D.....	31	2700-152.....	318	2800-021L.....	357
2605-187A.....	31	2700-152T.....	318	2800-021S.....	357
2605-187B.....	31	2700-153.....	318	2800-025.....	358
2605-187C.....	31	2700-154.....	318	2800-030.....	357
2605-187D.....	31	2700-154T.....	318	2800-030L.....	357
2605-200.....	21	2700-160.....	319	2800-030S.....	357
2605-205.....	21	2700-162.....	319	2800-035.....	358
2605-210.....	21	2700-164.....	319	2800-035L.....	358
2605-215.....	21	2700-165.....	319	2800-035S.....	358
2605-220.....	21	2700-166.....	319	2800-040.....	356
2605-230.....	21	2700-168.....	319	2800-040L.....	356
2605-235.....	21	2700-170.....	319	2800-040S.....	356
2605-250.....	21	2700-260.....	321	2800-042.....	356
2605-255.....	21	2700-262.....	321	2800-042L.....	356
2605-260.....	21	2700-264.....	321	2800-042S.....	356
2605-265.....	21	2700-266.....	321	2800-050.....	356
2605-270.....	21	2700-300.....	352	2800-050L.....	356
2605-275.....	21	2700-301.....	352	2800-050S.....	356
2605-280.....	21	2700-301R.....	353	2800-060.....	359
2605-285.....	21	2700-302.....	352	2800-060L.....	359

2800-060S.....	359	2800-518.....	376, 377	2900-0061.....	379
2800-061.....	359	2800-600.....	381	2900-0081.....	379
2800-061L.....	359	2800-602.....	381	2900-0101.....	379
2800-061S.....	359	2800-800-SET.....	382	2900-0111.....	379
2800-205.....	366	2800-810.....	384	2900-0131.....	379
2800-205L.....	366	2800-810L.....	384	2900-0161.....	379
2800-205S.....	366	2800-810T.....	384	2900-0181.....	379
2800-206.....	366	2800-824.....	385	2900-0201.....	379
2800-206L.....	366	2800-825.....	385	2900-0221.....	379
2800-206S.....	366	2800-826.....	383	2900-0241.....	379
2800-208.....	366	2800-828.....	383	20918-07-000.....	406
2800-208L.....	366	2800-830.....	383	20918-07-301.....	406
2800-210.....	367	2800-7475.....	369	20918-08-302.....	406
2800-210L.....	367	2800-7477.....	369	20918-08-303.....	406
2800-210S.....	367	2800-7480.....	368	20919-00.....	420
2800-211.....	367	2800-7484.....	368	20919-00-004.....	420
2800-211L.....	367	2800-7485.....	368	20919-00-005.....	420
2800-211S.....	367	2800-7486.....	368	20919-03.....	420
2800-230.....	364	2800-7487.....	368	20919-03-004.....	420
2800-230L.....	364	2800-7488.....	368	20919-03-005.....	420
2800-230S.....	364	2800-7490.....	368	20919-04.....	420
2800-235.....	365	2800-7493.....	368	20919-04-004.....	420
2800-235L.....	365	2800-7819.....	363	20919-04-005.....	420
2800-235S.....	365	2800-7819L.....	363	20919-05.....	421
2800-236.....	365	2800-7819S.....	363	20919-05-004.....	421
2800-236L.....	365	2800-7820.....	362	20919-05-005.....	421
2800-236S.....	365	2800-7820L.....	362	20919-05-020.....	421
2800-240.....	365	2800-7820S.....	362	20919-05-024.....	421
2800-240L.....	365	2800-7821.....	362	20919-05-025.....	421
2800-240S.....	365	2800-7821L.....	362	20919-05-040.....	421
2800-246.....	364	2800-7821S.....	362	20919-05-044.....	421
2800-246L.....	364	2800-7822.....	362	20919-05-055.....	421
2800-246S.....	364	2800-7822L.....	362	20919-05-060.....	421
2800-248.....	364	2800-7822S.....	362	20919-05-064.....	421
2800-248L.....	364	2800-7823.....	363	20919-05-065.....	421
2800-248S.....	364	2800-7823L.....	363	20919-05-344.....	421
2800-330.....	361	2800-7823S.....	363	20927-00.....	409
2800-330L.....	361	2800-7824.....	363	20927-00-000.....	409
2800-330S.....	361	2800-7824L.....	363	26942-41.....	415
2800-332.....	361	2800-7824S.....	363	26942-42.....	414
2800-332L.....	361	2800-7827.....	362	26942-43.....	415
2800-332S.....	361	2800-7827L.....	362	27921-05-000.....	395
2800-340.....	363	2800-7827S.....	362	27925-01-000.....	409
2800-340L.....	363	2800-7828L.....	360	27928-01-000.....	409
2800-340S.....	363	2800-7828S.....	360		
2800-341.....	363	2800-7829.....	360		
2800-341L.....	363	2800-7829L.....	360		
2800-341S.....	363	2800-7829S.....	360		
2800-404.....	369	2800-7830.....	361		
2800-405.....	369	2800-7830L.....	361		
2800-405L.....	369	2800-7830S.....	361		
2800-405S.....	369	2800-7831.....	367		
2800-406.....	369	2800-7831L.....	367		
2800-406L.....	369	2800-7831S.....	367		
2800-406S.....	369	2900-001.....	378		
2800-407.....	369	2900-002.....	380		
2800-410.....	369	2900-003.....	378		
2800-450.....	337	2900-004.....	380		
2800-451.....	337	2900-006.....	378		
2800-500.....	377	2900-008.....	378		
2800-502.....	377	2900-010.....	378		
2800-504.....	377	2900-011.....	378, 379		
2800-506.....	377	2900-013.....	378		
2800-508.....	377	2900-016.....	378		
2800-510.....	377	2900-018.....	378		
2800-512.....	377	2900-020.....	378		
2800-514.....	377	2900-022.....	378		
2800-516.....	377	2900-024.....	378		
		2900-0031.....	379		

A

Adson-Derlacki Forceps.....114

Adson Dressing Cross-Serrated Forceps113

Adson Dressing Serrated Forceps.....112

Adson Dressing TC Dust Forceps.....113

Adson Dressing TC Serrated Platform Forceps.....112

Adson Forceps.....129

Adson Forceps with Skin Hook.....114

Adson Harris Ring Tip Forceps.....116

Adson-Harris Ring Tip Forceps Titanium106

Adson Helms Forceps.....114

Adson Tissue Cross Serrated Forceps...111

Adson Tissue Forceps.....108

Adson Tissue Forceps Titanium.....106

Adson Tissue Smooth Platform Forceps109

Adson Tissue TC Dust Platform Forceps109

Adson Tissue TC Serrated Platform Forceps110

Allison Lung Retractor.....222

Andrews Pynchon Suction.....351

Anthony Suction.....350

Arm

Heartline Universal Arm with Table Clamp 376	48
B	Cooley Neonatal Cardiovascular Clamp Titanium 30, 31
Baby Haight Rib Spreader Retractor . . . 215	Cooley Pediatric Vascular Clamp 34, 36
Baby Metzenbaum Power Cut Black® Scissors 243	Cooley Spoon Clamp 34
Baby Mixer Right Angle Forceps 123	Cooley Subramanian Sidewinder Aortic Clamp 32
Baby Stratte Scissors 261	DeBakey Bulldog Clamp 41
Bailey Hemostatic Acute Angle Forceps 128	DeBakey-Derra Anastomosis Clamp . . 52
Bainbridge Forceps 141	Debakey-Derra Clamp Titanium 17
Barraquer Reverse Needle Holder 205	DeBakey-Dietrich Bulldog Clamp Titanium 44
Barr Double Ended Probe 339	DeBakey Morris Vascular Clamp 51
Barr Fistula Probe 339	DeBakey Multi-Purpose Clamp 50
Bayonet Circumflex Micro Scissors . . . 295	Debakey Neonatal Cardiovascular Clamp 49
Bayonet Spinal Knife Handle 335	DeBakey Neonatal Cardiovascular Clamp Titanium 28, 29
Beasley-Babcock Tissue Forceps 107	Debakey Neonatal Micro Vascular Clamp Titanium 26, 27
Beaver Blade Chuck Handle #3K 333	DeBakey-Satinsky Clamp 53
Beaver Blade Chuck Handle #3KD . . . 333	DeBakey Subramanian Sidewinder Clamp Titanium 23
Bengolea Hemostatic Forceps 130	DeBakey Universal Ring Clamp 421
Bethune-Coryllos Rib Shears 327	Dietrich Bulldog Clamp Titanium 44
Bethune Rib Shears 327	Dietrich Micro Bulldog Clamp 42
Blade Holder	Entopic Double Articulating Clamp . . 143
HL Scalpel Blade Holder 368	Glover-Cooley Bulldog Clamp 38
Blades	Glover-Debakey Bulldog Clamp 39
Henly Carotid Retractor Blades 221	John Hopkins Bulldog Clamp 45
Bonney Tissue Forceps 105	Kitzmler Clamp Titanium 24, 25
Braun-Ralph Suction 350	Lambert Aortic Clamp Titanium 16
Bridge Forceps 130	Lambert DeBakey Aortic Clamp 54
Broli-Adson Forceps 115	Lambert-Kay Aortic Clamp Titanium . . 16
Brown-Adson Tissue Forceps 115	Lambert-Kay DeBakey Aortic Clamp . . 55
Brown Adson Tissue Forceps Titanium . 107	Leland Jones Debakey Vascular Clamp Titanium 20
Brown Forceps 116	Micro Sontec Vena Clava Satinsky-Glover Bulldog Clamp 38
Brown Tissue Forceps 93	Micro Sontec® Yasargil-Glover Carotid Artery Bulldog Clamp 39
Bryant Mitral Hook Retractor 228	Microvascular Clamp 43
Buie Fistula Probe 339	Mini Glover (Weldon) Bulldog Clamp . 38
Bulldog Clamp Applying Forceps 46	Mitchell Profunda Clamp Titanium . . 22
C	Mitchell Profunda Titanium Clamp . . 22
Caliper	Profunda Clamp 51
Castroviejo Caliper 342	Satinsky Cooley Occlusion Clamp . . . 32
Cannula	Satinsky Cooley Occlusion Clamp Titanium 17
Heparin-Needle Cannula 331	Satinsky Vena Cava Clamp Titanium . 18
Carpentier Vascular Hook Titanium . . . 338	Serrefine Bulldog Clamp 45
Castaneda Clamp Titanium 21	Sontec V.A.T.S. Allis Debakey Clamp . 395
Castroviejo Caliper 342	Strong Aortic Clamp 56
Castroviejo Micro Scissors 289	Universal Microvascular Clamp 42
Castroviejo Needle Holder 178, 190	V.A.T.S. Classic DeBakey Clamp . . . 390
Castroviejo Needle Holder with Scissors 179	V.A.T.S. Classic DeBakey Clamp Titanium 392
Ceramic Coated Scissors 254	V.A.T.S. Classic Delicate DeBakey Clamp 392
Ceramitec Scissors 256	V.A.T.S. DeBakey Slider Dissecting Clamp 393
Ceramitec Stevens Tenotomy Ergonomic Spread Handle Power Cut Black® Scissors 254	V.A.T.S. Dissecting Clamp 394
Chest Tube Passer 324	V.A.T.S. Duval Clamp 402
Chuck Handle	V.A.T.S. Duval Clamp Titanium 403
Beaver Blade Chuck Handle #3K . . . 333	
Beaver Blade Chuck Handle #3KD . . . 333	
Church Power Cut Gold Power Cut Black Scissors 279	
Ciradur DeBakey Tissue Forceps 395	
Clamp	
Castaneda Clamp Titanium 21	
Cooley Bulldog Clamp 40	
Cooley-Kitzmler Carotid Artery Clamp 33	
Cooley Neonatal Cardiovascular Clamp	

V.A.T.S. Foerster Clamp 398, 399, 401	V.A.T.S. Foerster Clamp Titanium . . . 400
V.A.T.S. Foerster DeBakey Clamp . . . 400	V.A.T.S. Harken DeBakey Clamp . . . 396
V.A.T.S. Mixer DeBakey Clamp 393, 397	V.A.T.S. Mixer DeBakey Clamp Titanium 397
V.A.T.S. Mixer DeBakey Clamp Titanium 397	Vorse Tube Occluding Clamp 57
Clamps	
Cooley Pediatric Vascular Clamp 35	
V.A.T.S. Foerster Clamp Titanium . . . 401	
Cochran Pediatric Retractor 229	
Collett Chuck for Knife Handle 334	
Converse-Papillary Muscle Power Cut Black Double Articulating Scissors . . . 262	
Cooley and Debakey Neonatal Cardiovascular Clamp 47	
Cooley Bulldog Clamp 40	
Cooley-Kitzmler Carotid Artery Clamp . . 33	
Cooley Neonatal Cardiovascular Clamp 48	
Cooley Neonatal Cardiovascular Clamp Titanium 30, 31	
Cooley Pediatric Vascular Clamp 34, 35, 36	
Cooley Power Cut Gold Scissors 306	
Cooley Spoon Clamp 34	
Cooley Subramanian Sidewinder Aortic Clamp 32	
Cooley Tying Forceps 79	
Crile Forceps 142	
Crile-Wood Needle Holder 154	
Cushing Forceps Titanium 99	
Cushing Retractor 231	
Cushing Tying Forceps 98	
Cushing Vein Retractor 227	
C.V.H. Power Cut Black Scissors 276	
Cylinder Holder	
Garrett Vascular Dilator Cylinder Holder 322	
D	
Deaver Retractor 225	
DeBakey 1 mm Forceps Titanium 63	
DeBakey 1 mm Lightweight Forceps Titanium 63	
DeBakey 2 mm Lightweight Forceps Titanium 63	
DeBakey-Adson Tissue Forceps 107	
DeBakey Angled Tissue Forceps 88	
DeBakey Bayonet Forceps 101	
DeBakey Bulldog Clamp 41	
DeBakey-Derra Anastomosis Clamp . . . 52	
Debakey-Derra Clamp Titanium 17	
DeBakey-Dietrich Bulldog Clamp Titanium 44	
DeBakey Ergonomic-Handle Forceps . . 89	
DeBakey Forceps Titanium 84	
DeBakey Knurled Handle Forceps Titanium 85	
DeBakey Lightweight Needle Holder . . . 157	
DeBakey Morris Vascular Clamp 51	
DeBakey Multi-Purpose Clamp 50	
DeBakey Needle Holder Titanium 158	
DeBakey Needle Pulling Double Action Counterweight Forceps Titanium 73	
DeBakey Needle-Pulling Lightweight Forceps 77	
Debakey Needle Pulling Lightweight	

Forceps Titanium 65	
DeBakey Needle-Pulling Tissue Forceps 88	
DeBakey Needle Pulling Tissue Forceps Titanium 84	
Debakey Neonatal Cardiovascular Clamp 49	
DeBakey Neonatal Cardiovascular Clamp Titanium 28, 29	
Debakey Neonatal Micro Vascular Clamp Titanium 26, 27	
DeBakey Offset Ring Needle Holder . . . 155	
DeBakey Organ Grasping Forceps 421	
DeBakey Power Cut Black Scissors . . . 277	
DeBakey-Satinsky Clamp 53	
DeBakey Scissors 277	
DeBakey Streamlined Needle Holder . . 156	
DeBakey Subramanian Sidewinder Clamp Titanium 23	
DeBakey Thoracic Forceps 89	
DeBakey Tissue Forceps 87	
DeBakey Tissue Forceps Titanium 85	
DeBakey Universal Ring Clamp 421	
DeBakey Vascular Forceps 86	
DeBakey Vascular Forceps Titanium . . . 84	
Delicate Freeman-Kaye Ergonomic Spread Handle Saberback Scissors . . . 305	
DeMartel Power Cut Black Scissors . . . 274	
Desmarres Lid Retractor 232	
Diethrich Needle Holder 200, 201	
Dietrich Bulldog Clamp Titanium 44	
Dietrich Circumflex Classic Stabilizer Scissors 266	
Dietrich Classic Scissors 266	
Dietrich-DeBakey Tissue Forceps 86	
Dietrich Micro Bulldog Clamp 42	
Dietrich-Potts-Kurz Power Cut Black Scissors 267	
Dietrich-Potts Power Cut Black Scissors 269	
Dietrich Power Cut Black Scissors 271	
Dietrich Power Cut Gold Scissors 268	
Dietrich Power Cut Silver Scissors . . . 273	
Dietrich-Reul Power Cut Black Scissors . 270	
Dietrich TC/PC Power Cut Scissors . . . 272	
Dilator	
Garrett Vascular Dilator 323	
Myocardial Dilator Graduated 322	
Sarns Myocardial Dilator 321	
Tubbs Mitral Valve Dilator 322	
Dissecting Power Cut Silver Scissors . . 276	
Dissecting Scissors 276	
Dissector	
Lemmon Dissector 319	
Ochsner-Sontec Straight Dissector . . 318	
Olivecrona Dissector 319	
Oschner Dissector 318	
Titanium Sontec Dissector 319	
Yasargil Dissector Raspatory Titanium 318	
Doolen Neuro Hook 336	
Double Action Forceps Titanium 73	
Double Action Micro Scissors 296	
Double Action Needle Holder Titanium . 203	
Double-Action SS Needle Holder 202	
Duval-Collin Forceps 145	
E	
Electro Blue Coated DeBakey Forceps . . 90	
Electro Blue Coated Potts-Smith Tissue Forceps 97	
Elevator	

Freer Periosteal Elevator 328, 329, 330	
Yasargil Bayonet Elevator Titanium . . . 331	
Entopic Double Articulating Clamp . . . 143	
Eucleation Scissors 261	
Euphrate-Pasque Needle Holder 169	
Evans Tissue Forceps 94	
Extra Delicate Mosquito Forceps Titanium 132	
Extra-Long DeBakey Counterweight Forceps Titanium 72	
Extra-Long DeBakey Round Handle Lightweight Forceps Titanium . . . 66	
Extra-Long Micro DeBakey Round Handle Counterweight Forceps 83	
Extra-Long Micro DeBakey Round Handle Lightweight Forceps 78	
Extra-Long Micro Ring Tip Counterweight Forceps Titanium 71	
Extra-Long Micro Ring Tip Round Handle Counterweight Forceps 83	
Extra-Long Micro Ring Tip Round Handle Lightweight Forceps 78	
Extra-Long Micro Tying Counterweight Forceps Titanium 72	
Extra-Long Micro Tying Round Handle Counterweight Forceps 83	
Extra-Long Micro Tying Round Handle Lightweight Forceps 78	
Extra-Long Ring Tip Round Handle Lightweight Forceps Titanium . . . 66	
Extra-Long Tying Round Handle Lightweight Forceps Titanium 66	
F	
Favaloro Power Cut Black Power Cut Gold Scissors 264	
Ferlit Euphrate-Pasque Needle Holder . . 168	
Ferlit Micro Forceps 104	
Ferris-Smith Tissue Forceps 101	
Finesse Guide Micro Lightweight Forceps 79	
Finesse Scissors 283	
Finochietto-Baby-Haight Rib Spreader Retractor 218	
Finochietto Needle Holder 171	
Finochietto Rib Spreader Retractor . . . 214	
Finochietto Spreader Retractor 213	
Foerster Sponge Forceps 144	
Forceps	
#00 Jewelers aka Cilia & Suture Removal Forceps 121	
Adson-Derlacki Forceps 114	
Adson Dressing Cross-Serrated Forceps 113	
Adson Dressing Serrated Forceps . . . 112	
Adson Dressing TC Dust Forceps . . . 113	
Adson Dressing TC Serrated Platform Forceps 112	
Adson Forceps 129	
Adson Forceps with Skin Hook 114	
Adson Harris Ring Tip Forceps 116	
Adson-Harris Ring Tip Forceps Titanium 106	
Adson Helms Forceps 114	
Adson Tissue Cross Serrated Forceps 111	
Adson Tissue Forceps 108	
Adson Tissue Forceps Titanium 106	
Adson Tissue Smooth Platform Forceps	

109	
Adson Tissue TC Serrated Platform Forceps 110	
Baby Mixer Right Angle Forceps 123	
Bailey Hemostatic Acute Angle Forceps 128	
Bainbridge Forceps 141	
Beasley-Babcock Tissue Forceps 107	
Bengolea Hemostatic Forceps 130	
Bonney Tissue Forceps 105	
Bridge Forceps 130	
Broli-Adson Forceps 115	
Brown-Adson Tissue Forceps 115	
Brown Adson Tissue Forceps Titanium 107	
Brown Forceps 116	
Brown Tissue Forceps 93	
Bulldog Clamp Applying Forceps 46	
Ciradur DeBakey Tissue Forceps 395	
Cooley Tying Forceps 79	
Crile Forceps 142	
Cushing Forceps Titanium 99	
Cushing Tying Forceps 98	
DeBakey 1 mm Forceps Titanium 63	
DeBakey 1 mm Lightweight Forceps Titanium 63	
DeBakey 2 mm Lightweight Forceps Titanium 63	
DeBakey-Adson Tissue Forceps 107	
DeBakey Angled Tissue Forceps 88	
DeBakey Bayonet Forceps 101	
DeBakey Ergonomic-Handle Forceps . 89	
DeBakey Forceps Titanium 84	
DeBakey Knurled Handle Forceps Titanium 85	
DeBakey Needle Pulling Double Action Counterweight Forceps Titanium 73	
DeBakey Needle-Pulling Lightweight Forceps 77	
Debakey Needle Pulling Lightweight Forceps Titanium 65	
DeBakey Needle-Pulling Tissue Forceps 88	
DeBakey Needle Pulling Tissue Forceps Titanium 84	
DeBakey Organ Grasping Forceps . . . 421	
DeBakey Thoracic Forceps 89	
DeBakey Tissue Forceps 87	
DeBakey Tissue Forceps Titanium . . . 85	
DeBakey Vascular Forceps 86	
DeBakey Vascular Forceps Titanium . . 84	
Dietrich-DeBakey Tissue Forceps 86	
Double Action Forceps Titanium 73	
Duval-Collin Forceps 145	
Electro Blue Coated DeBakey Forceps 90	
Electro Blue Coated Potts-Smith Tissue Forceps 97	
Evans Tissue Forceps 94	
Extra Delicate Mosquito Forceps Titanium 132	
Extra-Long DeBakey Counterweight Forceps Titanium 72	
Extra-Long DeBakey Round Handle Lightweight Forceps Titanium . . . 66	
Extra-Long Micro DeBakey Round Handle Counterweight Forceps 83	
Extra-Long Micro DeBakey Round Handle	

Lightweight Forceps.	78
Extra-Long Micro Ring Tip Counterweight Forceps Titanium	71
Extra-Long Micro Ring Tip Round Handle Counterweight Forceps	83
Extra-Long Micro Ring Tip Round Handle Lightweight Forceps.	78
Extra-Long Micro Tying Counterweight Forceps Titanium	72
Extra-Long Ring Tip Round Handle Counterweight Forceps	83
Extra-Long Micro Tying Round Handle Lightweight Forceps.	78
Extra-Long Ring Tip Round Handle Lightweight Forceps Titanium . . 66	
Extra-Long Tying Round Handle Lightweight Forceps Titanium . . 66	
Ferlit-Micro Forceps.	104
Ferris-Smith Tissue Forceps	101
Finesse Guide Micro Lightweight Forceps 79	
Foerster Sponge Forceps	144
Gerald Brown Tissue Forceps.	90
Gerald Lightweight Forceps Titanium . 65	
Gerald Lightweight Micro Tissue Forceps Titanium	91
Gerald Tissue Forceps.	90, 92
Gillies Forceps	105
Gorney-Adson Forceps	107
Green Cystic Duct Right Angle Forceps 122	
Halstead Mosquito Forceps	135, 136, 137, 140
Halstead Mosquito Forceps Titanium . 134	
Hargrove Tying Wide Grip 10 mm Lightweight Forceps.	75
Harris Ring Tip Forceps.	117
Hartman Micro Tip Mosquito Forceps. 138	
Hartman Mosquito Forceps.	134
Hartmann Mosquito Forceps Titanium 136	
HL Gemini Dissection Forceps	360
HL Mini IMA Holding Forceps	361
HL Resano Grasper Forceps.	361
HL Ring Tip Forceps	360
HL Russian Grasper Forceps	361
Jacobson-Gemini Mixer Right Angle Forceps	124, 125
Jewelers Forceps.	118
Jewelers Forceps Titanium	121
Jewelers Forceps Titanium with Serrated Handle	119
Jewelers Precision Forceps.	120
Julian Thoracic Artery Forceps	131
Lahey Right Angle Forceps.	127
Lahey-Sweet Hemostatic Right Angle Forceps	123
Lung Grasping Forceps.	420
McAninch-DeBakey Lightweight Needle-Pulling Forceps Titanium	64
McGravey Tissue Forceps.	93
McIndoe Dressing and Tissue Forceps 103	
McIndoe Forceps Titanium	103
Meeker Hemostatic Right Angle Forceps 127	
Micro 0.2 mm 1x2 Teeth Counterweight Forceps Titanium	70

Micro 1x2 Teeth Bayonet Lightweight Forceps Titanium	67
Micro 1x2 Teeth Double Action Counterweight Forceps Titanium 73	
Micro 1x2 Teeth Lightweight Forceps Titanium	63
Micro 1x2 Teeth Tying Round Handle Lightweight Forceps.	75
Micro Aneurysm Clamp Applier Forceps 43	
Micro DeBakey 1 mm Counterweight Forceps Titanium	70
Micro DeBakey 1 mm Lightweight Round Handle Tissue Forceps	77
Micro DeBakey 2 mm Counterweight Forceps Titanium	71
Micro DeBakey 2 mm Wide Tips Round Handle Counterweight Forceps. 82	
Micro DeBakey Round Handle Counterweight Forceps	82
Micro Ring Tip 1 mm Lightweight Forceps Titanium	61
Micro Ring Tip 2 mm Lightweight Forceps Titanium	61
Micro Ring Tip Counterweight Forceps Titanium	69, 71
Micro Ring Tip Counterweight Round Handle Tissue Forceps	81
Micro Ring Tip Cross Serrated Lightweight Forceps	74
Micro Ring Tip Cross Serrated Lightweight Forceps Titanium	61
Micro Ring Tip Round Handle Lightweight Forceps	74
Micro Ring Tip Wide Grip Forceps Titanium	60
Micro Tip Mixer Right Angle Forceps. 126	
Micro Tying Lightweight Forceps Titanium 62	
Micro Tying Round Handle Counterweight Forceps	81
Micro Tying Round Handle Counterweight Forceps Titanium	68
Micro Tying Round Handle Lightweight Forceps	76
Micro Tying Wide Grip 10 mm Lightweight Forceps	75
Micro Tying Wide Grip Forceps Titanium 60	
Mixer-Paul Right Angle Forceps.	126
Mixer Right Angle Forceps	125
Mixer Streamline Right Angle Forceps122	
Nihlen Forceps.	132
Ochsner Acute Angle Forceps	129
Olsen-Lahey Right Angle Forceps.	128
Organ Grasping Forceps.	420
Original DeBakey Forceps.	86
O'Shaughnessy Forceps Titanium . . . 133	
Potts Cooley Tissue Forceps.	96
Potts-Smith Dressing Forceps.	96
Potts Smith Tissue Forceps.	96
Potts-Smith Tissue Forceps.	97
Rankin-Kelly Forceps.	143
Resano Brown Double Action Counterweight Forceps Titanium 73	
Resano Brown Vascular Forceps 95	

Resano Brown Vascular Forceps Titanium 95	
Reul Coronary Artery Forceps.	98
Rhoton 1x2 Teeth Lightweight Forceps Titanium	64
Ring Tip Bayonet Lightweight Forceps80	
Ring Tip Round Handle Bayonet Forceps 80	
Ring Tip Round Handle Bayonet Lightweight Forceps Titanium . . 67	
Russian Adson Micro Forceps	117
Russian Tissue Forceps.	93
Schmidt Hemostatic Forceps	140
Selman Tissue Forceps.	93
Semken Forceps	100
Singley Tuttle Forceps	94
Skinner Tissue Forceps.	99
Sontec Mosquito Forceps	139
Stay Suture Clamp Forceps	141
Stille-Adson Dressing Forceps	116
Stille-Adson Tissue Forceps	116
Thumb Dressing Forceps	104
Thumb Forceps Titanium.	99
Tissue Forceps with TC Inserts	98
Tissue Forceps with Teeth	102
Titanium Bayonet Forceps.	67
Troutman Micro Hook Forceps	106
Tying Bayonet Lightweight Forceps . . 80	
Tying Round Handle Bayonet Lightweight Forceps Titanium	67
V.A.T.S. Bulldog Apply Forceps.	411
V.A.T.S. Dissecting Forceps.	391
V.A.T.S. Geissendorfer Dissecting Forceps 391	
V.A.T.S. Russian Forceps.	397
V.A.T.S. Singley-Tuttle Lung Grasping Forceps	400
Wangensteen Tissue Forceps.	94
Frazier Angled Suction	346
Freeman-Kaye Ergonomic Spread Handle Saberback Power Cut Gold, Power Cut Black, TC/PC Power Cut Scissors	302
Freeman-Kaye Ergonomic Spread Handle Saberback Scissors	303, 304
Freer Periosteal Elevator.	328, 329, 330
French Eye Needle Holder	163
Fukushima Suction	347
G	
Gans Retractor Set	228
Garrett Vascular Dilator.	323
Garrett Vascular Dilator Cylinder Holder 322	
Gerald Brown Tissue Forceps	90
Gerald Lightweight Forceps Titanium. . . 65	
Gerald Lightweight Micro Tissue Forceps Titanium	91
Gerald Tissue Forceps	90, 92
Gillies Forceps	105
Gil-Vernet Desmarres Retractor	232
Gil-Vernet Retractor.	231
Glasser Micro Needle Holder	205
Glover-Cooley Bulldog Clamp	38
Glover-Debakey Bulldog Clamp	39
Gluck Rib Shears	326
Gorney-Adson Forceps.	107
Grasper	
HL Debakey Grasper	362,

363	
Green Cystic Duct Right Angle Forceps. 122	
Gregory Needle Holder.	188
Gubisch Surgical Pen Replacement Tip. 335	
Gubish Surgical Pen Holder Set.	335
H	
Halsey Needle Holder.	150
Halstead Mosquito Forceps 135, 136, 137, 140	
Halstead Mosquito Forceps Titanium. . . 134	
Handle	
Collett Chuck for Knife Handle	334
Sontec Knife Handle #3XXL	333
Universal Adjustable Angle Knife Handle #3.	332
Wide Barrel Grip Knife Handle #3.	332
Haraldsson Elevator with Suction.	350
Hargrove Tying Wide Grip 10 mm Lightweight Forceps.	75
Harken-Nissen Rib Spreader Retractor . 216	
Harris Ring Tip Forceps	117
Hartman Micro Tip Mosquito Forceps . . 138	
Hartman Mosquito Forceps	134
Hartmann Mosquito Forceps Titanium. . 136	
Heaney-Thorek Power Cut Gold Scissors279	
Heartline Knot Pusher Forceps.	369
Heartline Mini Suture Catcher.	369
Heartline Nerve & Vessel Hook.	337
Heartline Ross Sump Sucker	351, 380
Heartline Ross Ventricular Vent	380
Heartline Stabilizer Arm	384
Heartline Static Knot Pusher.	369
Heartline Suture Catcher Hook.	369
Heartline Universal Arm with Table Clamp 376	
Hegemann Classic Scissors.	265
Henly Carotid Retractor	220
Henly Carotid Retractor Blades	221
Heparin-Needle Cannula	331
HL Atrial Blade Set	377
HL Ball Point Probe.	368
HL Cardioplegia Needle	368
HL Colvin Needle Holder	356
HL Cooley Large Blade.	375
HL Cooley Small Blade.	375
HL Crile Wood Needle Holder	356
HL Curved Cooley Scissors 15°	364
HL Curved Cooley Scissors 30°	364, 365
HL Curved Cooley Scissors 70°	365
HL Curved Needle Holder.	358
HL Debakey Grasper	362, 363
HL Finochietto Large Blade	375
HL Finochietto Small Blade	375
HL Gemini Dissection Forceps.	360
HL Heart Stabilizer Finger Attachment. . 383	
HL Jameson Tenotomy Scissors	367
HL Magnetic Probe.	368
HL Mayo Hegar Heavy Needle Holder. . 359	
HL Micro Neuro Bayonet Large Gauge 9mm Ø with 11mm Ø Gold Knurled Grip Needle Holder	380
HL Mini IMA Holding Forceps.	361
HL Mini Needle Holder	357
HL MIS Retractor Frame Medium	372
HL MIS Retractor Frame Small	370, 371
HL Nerve Hook	368
HL Potts Vascular Scissors.	366, 367

HL Resano Grasper Forceps	361
HL Retractor	382
HL Retractor Atrial Rakes	385
HL Retractor Blade	374
HL Retractor Blade Acute Angled 110° . 374	
HL Retractor Blade Robotic Slim	373
HL Retractor Blade Standard	373
HL Ring Tip Forceps.	360
HL Rod Holder Introducer.	376
HL Russian Grasper Forceps	361
HL Ryder Needle Holder.	357
HL Scalpel Blade Holder.	368
HL Sontec Suture Ruler	381
HL Straight Needle Holder	357
HL Valve Rongeur.	381
HL Vessel Hook.	368
Hook	
Carpentier Vascular Hook Titanium. . . 338	
Doolen Neuro Hook.	336
Heartline Nerve & Vessel Hook	337
Heartline Suture Catcher Hook	369
HL Nerve Hook	368
HL Vessel Hook	368
Krayenbuehl Nerve Hook	336
Krayenbuehl Nerve Hook Extra Long Version	336
Krayenbuehl Nerve Hook Titanium . . . 338	
Sontec Nerve Hook Titanium.	336
Hooks	
Nerve & Vessel Hook Titanium	337
Howell-Potts Power Cut Silver Scissors . 265	
I	
I.C.U. Mitchell Tube Spreader.	325
I.C.U. Tube Stripper.	324
Intracardiac Needle Holder.	167
Ionescu Double-Ended Leaflet Valve Retractor	223
Ionescu Double-Ended Valve Retractor . 223	
Iris Classic Tungsten Carbide Power Cut Gold Power Cut Black TC/PC Scissors	258
Iris Stille Classic Large Cut Out Rings Scissors	260
Iris Stille Classic Large Rings Scissors. . 260	
J	
Jacobson Button End Hook Probe.	340
Jacobson Button End Probe	340
Jacobson Extra Long Micro Scissors 288, 292	
Jacobson-Gemini Mixer Right Angle Forceps	124, 125
Jacobson Heavy Needle Holder.	184
Jacobson Heavy Needle Holder Titanium 185, 197	
Jacobson Heavy Titanium Needle Holder198	
Jacobson Hemostatic Forceps.	131
Jacobson Hook Probe	340, 341
Jacobson Micro Needle Holder Titanium194	
Jacobson Micro Scissors283, 285, 286, 287, 290, 292, 293	
Jacobson Micro Scissors Angled or Flat 291	
Jacobson Needle Holder180, 181, 186, 191, 192, 199	
Jacobson Needle Holder Titanium 182, 183, 187, 193, 195	

Jacobson Neuro Scissors.	284
Jacobson Scissors	283
Jacobson Short Knurled Handle Micro Needle Holder	198
Jacobson Super Middle Weight Needle Holder.	184, 198
Jacobson Super Middle Weight Needle Holder Titanium	196
Jacobson Vannas Scissors.	284
Jacobson Yasargil Bayonet Micro Scissors 294	
Jewelers Forceps	118
Jewelers Forceps Titanium.	121
Jewelers Forceps Titanium with Serrated Handle	119
Jewelers Precision Forceps	120
John Hopkins Bulldog Clamp.	45
Joseph-Peck Saberback Classic Power Cut Gold Power Cut Black TC/PC Power Cut Scissors	308
Joseph Sharp Sharp Classic Power Cut Gold Power Cut Black Scissors . 307	
Julian Needle Holder	172
Julian Thoracic Artery Forceps.	131
K	
Kelly Power Cut Gold Power Cut Black Fistula Scissors	309
Kerrison Type Rib Shears	410
Kilner Power Cut Black Scissors.	262
Kitzmillier Clamp Titanium.	24, 25
Knife Handle	
Bayonet Spinal Knife Handle.	335
Knife Handle #3.	332
Knife Handle #3KL	333
Knife Handle #3L.	333
Knife Handle #4.	334
Knife Handle #4L.	334
Knife Handle #7.	334
Knife Handle #9.	335
Siegel Knife Handle	335
Knife Handle #3	332
Knife Handle #3KL	333
Knife Handle #3L	333
Knife Handle #4	334
Knife Handle #4L	334
Knife Handle #7	334
Knife Handle #9	335
Knot Pusher	
Heartline Static Knot Pusher	369
Knot Pusher Forceps	
Heartline Knot Pusher Forceps	369
Krayenbuehl Nerve Hook	336
Krayenbuehl Nerve Hook Extra Long Version 336	
Krayenbuehl Nerve Hook Titanium. . . . 338	
L	
Lahey Right Angle Forceps.	127
Lahey-Sweet Hemostatic Right Angle Forceps	123
Laine-Kindal Power Cut Black Scissors . 310	
Lambert Aortic Clamp Titanium	16
Lambert DeBakey Aortic Clamp	54
Lambert-Kay Aortic Clamp Titanium. . . . 16	
Lambert-Kay DeBakey Aortic Clamp 55	
Leland Jones Debakey Vascular Clamp	

Titanium	20
Lemmon Dissector	319
Lillehei-Potts Extra Long Power Cut Black Scissors	263
Lillehei-Potts Power Cut Black® Scissors	263
Love Nerve Root Retractor	230
Lung Grasping Forceps	420

M

Malleable Ribbon Retractor	233
Martin Cartilage Tenotomy Classic Power Cut Gold Scissors	306
Mayo-Carroll Scissors	249
Mayo-Harrington Scissors	250
Mayo-Hegar Needle Holder	151
Mayo-Hegar Needle Holder Titanium	153
Mayo-Hegar Streamlined Needle Holder	152
Mayo-Lexer Classic Power Cut Gold Power Cut Black TC/PC Power Cut Scissors	249
Mayo-Lexer Fino Classic Tungsten Carbide Power Cut Gold Scissors	248
McAninch-DeBakey Lightweight Needle-Pulling Forceps Titanium	64
McGravey Tissue Forceps	93
McIndoe Dressing and Tissue Forceps	103
McIndoe Forceps Titanium	103
Meeker Hemostatic Right Angle Forceps	127
Menzoian-Henly Carotid Retractor	220
Metal Micro Instrument Tray	8, 9
Metzenbaum Ceramitec Power Cut® Scissors	247
Metzenbaum Power Cut Black Scissors	241, 242, 244, 245
Metzenbaum Power Cut Gold Long Model Scissors	240
Metzenbaum Power Cut Gold Scissors	238, 239
Metzenbaum Power Cut® Gold Scissors	238
Metzenbaum-Toennis Power Cut Black Scissors	248
Metzenbaum Tungsten Carbide Power Cut® Gold/Black Scissors	246
Meyerding Finger Retractor	233
Micro 0.2 mm 1x2 Teeth Counterweight Forceps Titanium	70
Micro 1x2 Teeth Bayonet Lightweight Forceps Titanium	67
Micro 1x2 Teeth Double Action Counterweight Forceps Titanium	73
Micro 1x2 Teeth Lightweight Forceps Titanium	63
Micro 1x2 Teeth Tying Round Handle Lightweight Forceps	75
Micro Aneurysm Clamp Applier Forceps	43
Micro Bayonet Needle Holder	204
Micro DeBakey 1 mm Counterweight Forceps Titanium	70
Micro DeBakey 1 mm Lightweight Round Handle Tissue Forceps	77
Micro DeBakey 2 mm Counterweight Forceps Titanium	71
Micro DeBakey 2 mm Wide Tips Round Handle Counterweight Forceps	82
Micro DeBakey Round Handle Counterweight Forceps	82
Micro Neuro 9mm Ø Large Gauge with 11.0mm Gold Knurled Grip Bayonet	

Instrumentation Set	379
Micro Neuro Original Lightweight 5mm Ø Gauge with 9.5mm Ø Golfball Grip Bayonet Instrumentation Set	378
Micro Ring Tip 1 mm Lightweight Forceps Titanium	61
Micro Ring Tip 2 mm Lightweight Forceps Titanium	61
Micro Ring Tip Counterweight Forceps Titanium	69, 71
Micro Ring Tip Counterweight Round Handle Tissue Forceps	81
Micro Ring Tip Cross Serrated Lightweight Forceps	74
Micro Ring Tip Cross Serrated Lightweight Forceps Titanium	61
Micro Ring Tip Round Handle Lightweight Forceps	74
Micro Ring Tip Wide Grip Forceps Titanium	60
Micro Sontec® Vena Clava Satinsky-Glover Bulldog Clamp	38
Micro Sontec® Yasargil-Glover Carotid Artery Bulldog Clamp	39
Micro Tip Mixer Right Angle Forceps	126
Micro Tying Lightweight Forceps Titanium	62
Micro Tying Round Handle Counterweight Forceps	81
Micro Tying Round Handle Counterweight Forceps Titanium	68
Micro Tying Round Handle Lightweight Forceps	76
Micro Tying Wide Grip 10 mm Lightweight Forceps	75
Micro Tying Wide Grip Forceps Titanium	60
Microvascular Clamp	43
Microvascular Needle Holder	160
Microvascular Needle Holder Titanium	159, 161
Microvascular Ryder Needle Holder	162
Micro Weitlaner-Henley Retractor	219
Mini Finochietto Retractor Titanium	217
Mini Glover (Weldon) Bulldog Clamp	38
Mitchell Profunda Clamp Titanium	22
Mitchell Profunda Titanium Clamp	22
Mixer-Paul Right Angle Forceps	126
Mixer Right Angle Forceps	125
Mixer Streamline Right Angle Forceps	122
Myocardial Dilator Graduated	322

N

Naughton-Morgan Needle Holder	174
Needle	
HL Cardioplegia Needle	368
Needle Holder	
Barraquer Reverse Needle Holder	205
Castroviejo Needle Holder	178, 190
Castroviejo Needle Holder with Scissors	179
Crile-Wood Needle Holder	154
DeBakey Lightweight Needle Holder	157
DeBakey Needle Holder Titanium	158
DeBakey Offset Ring Needle Holder	155
DeBakey Streamlined Needle Holder	156
Double Action Needle Holder Titanium	203
Double-Action SS Needle Holder	202

Euphrate-Pasque Needle Holder	169
Ferlit Euphrate-Pasque Needle Holder	168
Finochietto Needle Holder	171
French Eye Needle Holder	163
Glasser Micro Needle Holder	205
Gregory Needle Holder	188
Halsey Needle Holder	150
HL Colvin Needle Holder	356
HL Crile Wood Needle Holder	356
HL Curved Needle Holder	358
HL Mayo Hegar Heavy Needle Holder	359
HL Mini Needle Holder	357
HL Ryder Needle Holder	357
HL Straight Needle Holder	357
Intracardiac Needle Holder	167
Jacobson Heavy Needle Holder	184
Jacobson Heavy Needle Holder Titanium	185, 197
Jacobson Heavy Titanium Needle Holder	198
Jacobson Micro Needle Holder Titanium	194
Jacobson Needle Holder	180, 181, 186, 191, 192, 199
Jacobson Needle Holder Titanium	182, 183, 187, 193, 195
Jacobson Short Knurled Handle Micro Needle Holder	198
Jacobson Super Middle Weight Needle Holder	184, 198
Jacobson Super Middle Weight Needle Holder Titanium	196
Julian Needle Holder	172
Mayo-Hegar Needle Holder	151
Mayo-Hegar Needle Holder Titanium	153
Mayo-Hegar Streamlined Needle Holder	152
Micro Bayonet Needle Holder	204
Microvascular Needle Holder	160
Microvascular Needle Holder Titanium	159, 161
Microvascular Ryder Needle Holder	162
Naughton-Morgan Needle Holder	174
New Orleans Needle Holder	172
New Orleans Wire Twister Needle Holder	176
Olsen-Hegar Deluxe Needle Holder	175
Pittman Needle Holder	174
Ryder-Castroviejo Needle Holder	191
Ryder Delicate Needle Holder	166
Ryder Needle Holder Titanium	164
Ryder Standard Size Needle Holder	165
Sarot Needle Holder	168
Sontec Extra Micro Needle Holder	189
Sontec Ryder Needle Holder	167
Sternal Wire Twister Needle Holder	176
Stratte	173
Swedish Style Needle Holder	170
TOP DUR Needle Holder	406
Turner-Warwick Needle Holder	171
V.A.T.S. Mayo-Hegar Needle Holder	404
V.A.T.S. Mayo Needle Holder	404
V.A.T.S.-MICS TOP-DUR Needle Holder	406
V.A.T.S. Ryder Fine Needle Holder	405
Webster Needle Holder	150
Needle Holders	
Diethrich Needle Holder	200,

201	
Neonatal Finochietto Retractor	217
Nerve & Vessel Hook Titanium	337
New Orleans Needle Holder	172
New Orleans Wire Twister Needle Holder	176
Nihlen Forceps	132

O

Ochsner Acute Angle Forceps	129
Ochsner-Sontec Straight Dissector	318
Olivecrona Dissector	319
Olsen-Hegar Deluxe Needle Holder	175
Olsen-Lahey Right Angle Forceps	128
Organ Grasping Forceps	420
Original DeBakey Forceps	86
Oschner Dissector	318
O'Shaughnessy Forceps Titanium	133

P

Papavero Cannula Suction	351
Parsonnet Epicardial Retractor	222
Passer	
Chest Tube Passer	324
Penfield Dissector Set	320
Pitanguy Elevator With Suction	350
Pittman Needle Holder	174
Plain Rib Shears	326
Potts Artery Power Cut Black Scissors	276
Potts Cooley Tissue Forceps	96
Potts-Smith Dressing Forceps	96
Potts Smith Tissue Forceps	96
Potts-Smith Tissue Forceps	97
Power Cut Black®	254, 256
Power Cut Gold	254, 256
Probe	
Barr Double Ended Probe	339
Barr Fistula Probe	339
Buie Fistula Probe	339
HL Ball Point Probe	368
HL Magnetic Probe	368
Jacobson Button End Hook Probe	340
Jacobson Button End Probe	340
Jacobson Hook Probe	340, 341
Profunda Clamp	51
Ragnell Power Cut Black Undermining Scissors	312
Ragnell Power Cut Black® Undermining Scissors	313
Ragnell Retractor	226
Ragnell Undermining Power Cut Gold Scissors	314
Rakes	
HL Retractor Atrial Rakes	385
Rankin-Kelly Forceps	143
Raspatory	
Yasargil Dissector Raspatory Titanium	318
Resano Brown Double Action Counterweight Forceps Titanium	73
Resano Brown Vascular Forceps	95
Resano Brown Vascular Forceps Titanium	95
Retractor	
Baby Haight Rib Spreader Retractor	215
Bryant Mitral Hook Retractor	228

R

Cochran Pediatric Retractor	229
Cushing Retractor	231
Cushing Vein Retractor	227
Deaver Retractor	225
Desmarres Lid Retractor	232
Finochietto-Baby-Haight Rib Spreader Retractor	218
Finochietto Rib Spreader Retractor	214
Finochietto Spreader Retractor	213
Gil-Vernet Desmarres Retractor	232
Gil-Vernet Retractor	231
Harken-Nissen Rib Spreader Retractor	216
Henly Carotid Retractor	220
HL MIS Retractor Frame Medium	372
HL MIS Retractor Frame Small	370, 371
HL Retractor	382
Ionescu Double-Ended Leaflet Valve Retractor	223
Ionescu Double-Ended Valve Retractor	223
Love Nerve Root Retractor	230
Malleable Ribbon Retractor	233
Menzoian-Henly Carotid Retractor	220
Meyerding Finger Retractor	233
Micro Weitlaner-Henley Retractor	219
Mini Finochietto Retractor Titanium	217
Neonatal Finochietto Retractor	217
Parsonnet Epicardial Retractor	222
Ragnell Retractor	226
Senn Retractor	226
Shanghai Adolescent Finochietto Retractor	211
Shanghai Adult Finochietto Retractor	212
Shanghai Infant Finochietto Retractor	209
Shanghai Neonatal Finochietto Retractor	208
Shanghai Small Infant Finochietto Retractor	210
Sontec Deluxe Fan Organ Retractor	415
Sontec Fan Organ Retractor	414, 415
Strong Weitlaner Retractor	219
Titanium I.M.A. Epicardial Retractor	222
Titanium Wood Valve Retractor	223
Retractor Blade	
HL Cooley Large Blade	375
HL Cooley Small Blade	375
HL Finochietto Large Blade	375
HL Finochietto Small Blade	375
HL Retractor Blade	374
HL Retractor Blade Acute Angled 110°	374
HL Retractor Blade Robotic Slim	373
HL Retractor Blade Standard	373
U.S. Army-Navy Retractor	227
Retractor, Senn	226
Retrator	
Allison Lung Retractor	222
Reul Coronary Artery Forceps	98
Reynolds Tenotomy Classic, Power Cut Gold, Power Cut Black, TC/PC Power Cut Scissors	300
Reynolds Tenotomy Scissors	301
Rhoton 1x2 Teeth Lightweight Forceps Titanium	64
Rhoton Micro Neuro Suction	348
Ribbon-Handle Classic Iris Scissors	257

Ring Tip Bayonet Lightweight Forceps	80
Ring Tip Round Handle Bayonet Forceps	80
Ring Tip Round Handle Bayonet Lightweight Forceps Titanium	67
Rod Holder Introducer	
HL Rod Holder Introducer	376
Rongeur	
HL Valve Rongeur	381
Ruler	
HL Sontec Suture Ruler	381
Russian Adson Micro Forceps	117
Russian Tissue Forceps	93
Ryder-Castroviejo Needle Holder	177, 191
Ryder Delicate Needle Holder	166
Ryder Needle Holder Titanium	164
Ryder Standard Size Needle Holder	165

S

Sarns Myocardial Dilator	321
Sarot Needle Holder	168
Satinsky Cooley Occlusion Clamp	32
Satinsky Cooley Occlusion Clamp Titanium	17
Satinsky Vena Cava Clamp Titanium	18
Sauerbruch Rib Shears	326
Schmidt Hemostatic Forceps	140
Scissors	
Baby Metzenbaum Power Cut Black® Scissors	243
Baby Stratte Scissors	261
Bayonet Circumflex Micro Scissors	295
Castroviejo Micro Scissors	289
Ceramitec Stevens Tenotomy Ergonomic Spread Handle Power Cut Black® Scissors	254
Church Power Cut Gold Power Cut Black Scissors	279
Converse-Papillary Muscle Power Cut Black Double Articulating Scissors	262
Cooley Power Cut Gold Scissors	306
C.V.H. Power Cut Black Scissors	276
DeBakey Power Cut Black Scissors	277
DeBakey Scissors	277
Delicate Freeman-Kaye Ergonomic Spread Handle Saberback Scissors	305
DeMartel Power Cut Black Scissors	274
Dietrich Circumflex Classic Stabilizer Scissors	266
Dietrich Classic Scissors	266
Dietrich-Potts-Kurz Power Cut Black Scissors	267
Dietrich-Potts Power Cut Black Scissors	269
Dietrich Power Cut Black Scissors	271
Dietrich Power Cut Gold Scissors	268
Dietrich Power Cut Silver Scissors	273
Dietrich-Reul Power Cut Black Scissors	270
Dietrich TC/PC Power Cut Scissors	272
Dissecting Power Cut Silver Scissors	276
Dissecting Scissors	276
Double Action Micro Scissors	296
Enucleation Scissors	261
Favaloro Power Cut Black Power Cut Gold Scissors	264
Finesse Scissors	283
Freeman-Kaye Ergonomic Spread Handle	

Saberback Power Cut Gold, Power Cut Black, TC/PC Power Cut Scissors	302
Freeman-Kaye Ergonomic Spread Handle Saberback Scissors	303, 304
Heaney-Thorek Power Cut Gold Scissors	279
Hegemann Classic Scissors	265
HL Curved Cooley Scissors 15°	364
HL Curved Cooley Scissors 30°	364, 365
HL Curved Cooley Scissors 70°	365
HL Jameson Tenotomy Scissors	367
HL Potts Vascular Scissors	366, 367
Howell-Potts Power Cut Silver® Scissors	265
Iris Classic Tungsten Carbide Power Cut Gold Power Cut Black TC/PC Scissors	258
Iris Stille Classic Large Rings Scissors	260
Jacobson Extra Long Micro Scissors	288, 292
Jacobson Micro Scissors	283, 285, 286, 287, 290, 292, 293
Jacobson Micro Scissors Angled or Flat	291
Jacobson Neuro Scissors	284
Jacobson Scissors	283
Jacobson Vannas Scissors	284
Jacobson Yasargil Bayonet Micro Scissors	294
Jameson Tenotomy Classic, Tungsten Carbide, Power Cut Gold, Power Cut Black, TC/PC Power Cut Scissors	297, 298
Joseph-Peck Saberback Classic Power Cut Gold Power Cut Black TC/PC Power Cut Scissors	308
Joseph Sharp Sharp Classic Power Cut Gold Power Cut Black Scissors	307
Kelly Power Cut Gold Power Cut Black Fistula Scissors	309
Kilner Power Cut Black Scissors	262
Laine-Kindal Power Cut Black Scissors	310
Lillehei-Potts Extra Long Power Cut Black Scissors	263
Lillehei-Potts Power Cut Black® Scissors	263
Martin Cartilage Tenotomy Classic Power Cut Gold Scissors	306
Mayo-Carroll Scissors	249
Mayo-Harrington Scissors	250
Mayo-Lexer Classic Power Cut Gold Power Cut Black TC/PC Power Cut Scissors	249
Mayo-Lexer Fino Classic Tungsten Carbide Power Cut Gold Scissors	248
Metzenbaum Ceramitec Power Cut® Scissors	247
Metzenbaum Power Cut Black Scissors	241, 242, 244, 245
Metzenbaum Power Cut Gold Long Model Scissors	240
Metzenbaum Power Cut Gold Scissors	238, 239
Metzenbaum-Toennis Power Cut Black Scissors	248
Metzenbaum Tungsten Carbide Power Cut® Gold/Black Scissors	246
Potts Artery Power Cut Black Scissors	276
Ragnell Power Cut Black Undermining Scissors	312
Ragnell Power Cut Black® Undermining Scissors	313
Ragnell Undermining Power Cut Gold Scissors	314
Reynolds Tenotomy Classic, Power Cut Gold, Power Cut Black, TC/PC Power Cut Scissors	300
Reynolds Tenotomy Scissors	301
Ribbon-Handle Classic Iris Scissors	257
Sontec Double Action Micro Scissors	296
Sontec Heifetz Micro Scissors	296
Sontec-Stevens-Ragnell Power Cut Black Scissors	311
Stefan DeMartel Extra Long Shank Power Cut Black Scissors	275
Stevens Siegert Tenotomy Scissors Double Beveled Blades	255
Stevens Tenotomy Classic PC Gold Scissors	252
Stevens Tenotomy Classic, Tungsten Carbide, Power Cut Gold, Power Cut Black®, Ceramitec Scissors	256
Stevens Tenotomy Ergonomic Spread Handle Power Cut Black Scissors	253
Stevens Tenotomy Ergonomic Spread Handle Tungsten Carbide Power Cut Black/Gold Scissors	253
Stevens Tenotomy Power Cut Black Double Articulating Scissors	299
Stevens Tenotomy Power Cut Black Scissors	299
Stevens Tenotomy , Tungsten Carbide, Power Cut Gold, Power Cut Black®, Ceramic Coated Scissors	254
Strabismus Classic Tungsten Carbide Power Cut Gold Power Cut Black Scissors	257
Stratte Jameson Power Cut Gold Scissors	281
Stratte S-Curve Power Cut Gold Scissors	280
Stratte Stille Power Cut Gold Scissors	281
Stussak Metzenbaum Power Cut Gold Scissors	248
Thorek Power Cut Gold Scissors	278
Thorek Scissors	280
Titanium Jacobson Scissors	282
Titanium Westcott Tenotomy Scissors	252
V.A.T.S. Metzenbaum Mini Power Cut Ciradur Scissors	409
V.A.T.S. Metzenbaum Power Cut Black Scissors	408
V.A.T.S. Metzenbaum Power Cut Ciradur Scissors	409
V.A.T.S. Metzenbaum Power Cut Scissors	408
Westcott Stitch Scissors	252
Westcott Tenotomy Scissors	251
Westcott Wide Handle Tenotomy Scissors	251
Scissros Iris Stille Classic Large Cut Out Rings	

Scissors	260
Selman Tissue Forceps	93
Semken Forceps	100
Serrefine Bulldog Clamp	45
Set Gans Retractor Set	228
Gubish Surgical Pen Holder Set	335
HL Atrial Blade Set	377
Micro Neuro 9mm Ø Large Gauge with 11.0mm Gold Knurled Grip Bayonet Instrumentation Set	379
Micro Neuro Original Lightweight 5mm Ø Gauge with 9.5mm Ø Golfball Grip Bayonet Instrumentation Set	378
Penfield Dissector Set	320
Yasargil Raspatory Probe Set	330
Shanghai Adolescent Finochietto Retractor	211
Shanghai Adult Finochietto Retractor	212
Shanghai Infant Finochietto Retractor	209
Shanghai Neonatal Finochietto Retractor	208
Shanghai Small Infant Finochietto Retractor	210
Shears Bethune-Coryllos Rib Shears	327
Bethune Rib Shears	327
Gluck Rib Shears	326
Kerrison Type Rib Shears	410
Plain Rib Shears	326
Stille Giertz Rib Shears	327
Siegel Knife Handle	335
Singley Tuttle Forceps	94
Skinner Tissue Forceps	99
Sontec Deluxe Fan Organ Retractor	415
Sontec Double Action Micro Scissors	296
Sontec Extra Micro Needle Holder	189
Sontec Fan Organ Retractor	414, 415
Sontec Heifetz Micro Scissors	296
Sontec Knife Handle #3XXL	333
Sontec Micro Pediatric Suction	352, 353
Sontec Mosquito Forceps	139
Sontec Nerve Hook Titanium	336
Sontec Neuro Suction	349
Sontec Ryder Needle Holder	167
Sontec-Stevens-Ragnell Power Cut Black Scissors	311
Sontec Thoracic Suction Tube	412
Sontec V.A.T.S. Allis Debakey Clamp	395
Spreader I.C.U. Mitchell Tube Spreader	325
Stabalizer Arm Heartline Stabilizer Arm	384
Stabilizer HL Heart Stabilizer Finger Attachment	383
Stay Suture Clamp Forceps	141
Stefan DeMartel Extra Long Shank Power Cut Black Scissors	275
Sternal Wire Twister Needle Holder	176
Stevens Siegert Tenotomy Scissors Double Beveled Blades	255
Stevens Tenotomy	254
Stevens Tenotomy Classic	256
Stevens Tenotomy Classic PC Gold Scissors	252
Stevens Tenotomy Ergonomic Spread Handle Power Cut Black Scissors	253
Stevens Tenotomy Ergonomic Spread Handle Tungsten Carbide Power Cut	

Black/Gold Scissors	253
Stevens Tenotomy Power Cut Black Double Articulating Scissors	299
Stevens Tenotomy Power Cut Black Scissors	299
Stille-Adson Dressing Forceps	116
Stille-Adson Tissue Forceps	116
Stille Giertz Rib Shears	327
Strabismus Classic Tungsten Carbide Power Cut Gold Power Cut Black Scissors	257
Stratte	173
Stratte Jameson Power Cut Gold Scissors	281
Stratte S-Curve Power Cut Gold Scissors	280
Stratte Stille Power Cut Gold Scissors	281
Strong Aortic Clamp	56
Strong Weitlaner Retractor	219
Stussak Metzenbaum Power Cut Gold Scissors	248
Suction Andrews Pynchon Suction	351
Anthony Suction	350
Braun-Ralph Suction	350
Frazier Angled Suction	346
Fukushima Suction	347
Haraldsson Elevator with Suction	350
Papavero Cannula Suction	351
Pitanguy Elevator With Suction	350
Rhoton Micro Neuro Suction	348
Sontec Micro Pediatric Suction	352, 353
Sontec Neuro Suction	349
Suction Tube Thoracic Suction Tube	413
Sump Sucker Heartline Ross Sump Sucker	351, 380
Suture Catcher Heartline Mini Suture Catcher	369
Suture Cutter V.A.T.S. Black Suture Cutter	410
Swedish Style Needle Holder	170
T12-9300	342
T115-450	142
T117-560	333
T136-686	107
Thermoplastic Instrument Tray	11, 12
Thermoplastic Instrument Trays	10
Thoracic Suction Tube	413
Thorek Power Cut Gold Scissors	278
Thorek Scissors	280
Thumb Dressing Forceps	104
Thumb Forceps Titanium	99
Tip Gubisch Surgical Pen Replacement Tip	335
Tissue Forceps with TC Inserts	98
Tissue Forceps with Teeth	102
Titanium Bayonet Forceps	67
Titanium I.M.A. Epicardial Retractor	222
Titanium Jacobson Scissors	282
Titanium Sontec Dissector	319
Titanium Westcott Tenotomy Scissors	252
Titanium Wood Valve Retractor	223
TOP DUR Needle Holder	406

Tray Metal Micro Instrument Tray	8, 9
Thermoplastic Instrument Tray	11, 12
Thermoplastic Instrument Trays	10
Universal Surgery Tray	13
Troutman Micro Hook Forceps	106
Tubbs Mitral Valve Dilator	322
Tube Sontec Thoracic Suction Tube	412
Tungsten Carbide	254, 256
Tunneler	325
Turner-Warwick Needle Holder	171
Tying Bayonet Lightweight Forceps	80
Tying Round Handle Bayonet Lightweight Forceps Titanium	67

U

Universal Adjustable Angle Knife Handle #3	332
Universal Microvascular Clamp	42
Universal Surgery Tray	13
U.S. Army-Navy Retractor	227

V

V.A.T.S. Black Suture Cutter	410
V.A.T.S. Bulldog Apply Forceps	411
V.A.T.S. Classic DeBakey Clamp	390
V.A.T.S. Classic DeBakey Clamp Titanium	392
V.A.T.S. Classic Delicate DeBakey Clamp	392
V.A.T.S. DeBakey Slider Dissecting Clamp	393
V.A.T.S. Dissecting Clamp	394
V.A.T.S. Dissecting Forceps	391
V.A.T.S. Duval Clamp	402
V.A.T.S. Duval Clamp Titanium	403
V.A.T.S. Foerster Clamp	398, 399, 401
V.A.T.S. Foerster Clamp Titanium	400, 401
V.A.T.S. Foerster DeBakey Clamp	400
V.A.T.S. Geissendorfer Dissecting Forceps	391
V.A.T.S. Harken DeBakey Clamp	396
V.A.T.S. Mayo-Hegar Needle Holder	404
V.A.T.S. Mayo Needle Holder	404
V.A.T.S. Metzenbaum Mini Power Cut Ciradur Scissors	409
V.A.T.S. Metzenbaum Power Cut Black Scissors	408
V.A.T.S. Metzenbaum Power Cut Ciradur Scissors	409
V.A.T.S. Metzenbaum Power Cut Gold Scissors	407
V.A.T.S. Metzenbaum Power Cut Scissors	408
V.A.T.S.-MICS TOP-DUR Needle Holder	406
V.A.T.S. Mixer DeBakey Clamp	393, 397
V.A.T.S. Russian Forceps	397
V.A.T.S. Ryder Fine Needle Holder	405
V.A.T.S. Singley-Tuttle Lung Grasping Forceps	400
Ventricular Vent Heartline Ross Ventricular Vent	380
Vorse Tube Occluding Clamp	57

W

Wangensteen Tissue Forceps	94
Webster Needle Holder	150
Westcott Stitch Scissors	252
Westcott Tenotomy Scissors	251
Westcott Wide Handle Tenotomy Scissors	251
Wide Barrel Grip Knife Handle #3	332
Wire Twister New Orleans Wire Twister Needle Holder	176
Sternal Wire Twister Needle Holder	176

Y

Yasargil Bayonet Elevator Titanium	331
Yasargil Dissector Raspatory Titanium	318
Yasargil Raspatory Probe Set	330



In Business for Over 50 Years

Bringing the Highest Quality Surgical
Instrumentation to the World since 1970

 **Sontec Instruments®**

SontecInstruments.com