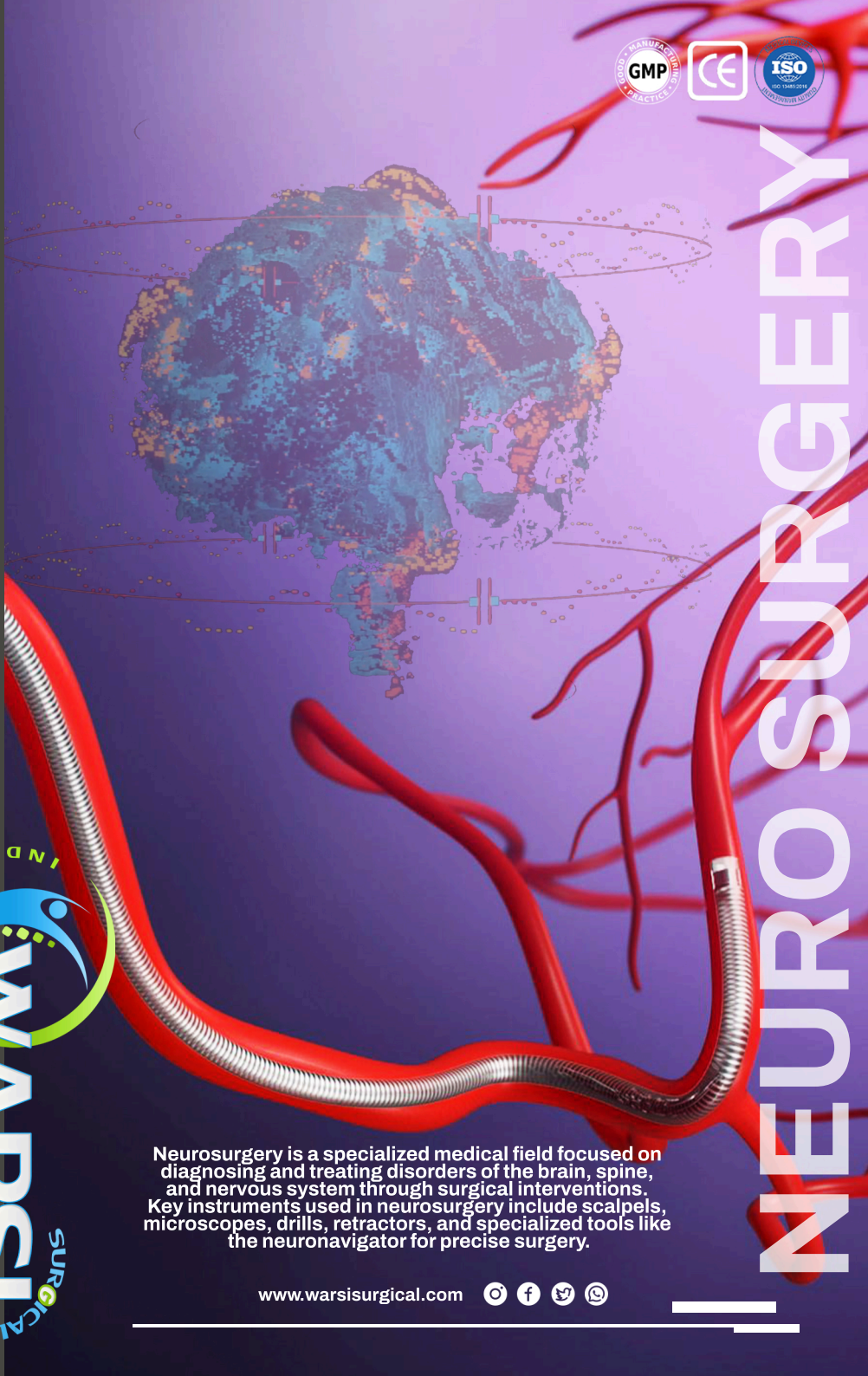


NEURO SURGERY

Neurosurgery is a specialized medical field focused on diagnosing and treating disorders of the brain, spine, and nervous system through surgical interventions. Key instruments used in neurosurgery include scalpels, microscopes, drills, retractors, and specialized tools like the neuronavigator for precise surgery.

WARSI SURGICAL INDUSTRIES

THE INSTRUMENTS SPECIALIST

www.warsisurgical.com

COMPANY POFILE

General Info

EST. 2010 WARSI SURGICAL INDUSTRIES is a family owned company. We Manufacture and Export all types of general surgical and Orthopedic instruments. We are running this family business in third generation. We have gained excellent reputation among our buyers worldwide with a moto of INTRUMENT FOR LIFE.

Contact info

MUHAMMAD AZEEM
(Export & Operational Manager)

+92-306-9774076 info@warsisurgical.com

Membership

1 # THE SURGICAL INSTRUMENTS MANUFACTURERS ASSOSICTION OF PAKISTAN, SIALKOT M # W084

2 # THE SIALKOT CHAMBER OF COMMERCE & INDUSTRY, SIALKOT , PAKISTAN, M # A- 25308

No. of Employess

- 3-EMPLOYEES WORKING ON QCD
- 2- EMPLOYEES WORKING ON MANAGEMENT CONTROL SYSTEM.
- 40 SKILLED WORKING IN DIFFERENT TYPE OF MANUFACTURING UNITS

Production Cap.

6000/PCS. TO 10000/PCS. MONTHLY PRODUCTION
IN DIFFERENT OF INSRUMENTS
ACCORDING TO THE PRESCRIBED INSTRUCTIONS
OF QUALITY MANAGEMENT SYSTEMS

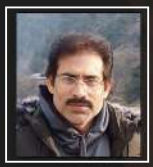
Partners Info



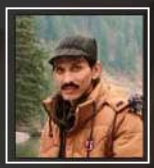
MUHAMMAD AZAM
(Chief Executive)



MUHAMMAD AZEEM
(Export & Operational Manager)



MUHAMMAD ASIM
(Quality Control Manager)



MUHAMMAD ARIF
(Production Manager)

INDUSTRIES
WARSI
SURGICAL
THE INSTRUMENTS SPECIALIST

OUT MOTTO

TO BECOME A GLOBAL GROUP OF COMPANIES BY PROVIDING OUR VALUEABLE CUSTOMERS THE BEST QUALITY PRODUCTS AND PROMPT SERVICES THROUGH PRODUCTS INNOVATION, DEVELOPMENT AND ACQUISITION OF TECHONOLOGY. SATISFISCATION OF OUR CUSTOMERS AND EMPLOYEE IS A MAJOR IMPORTANT PART OF OUR MISSION.

Warsi Surgical Industries. is a family owned company, dedicated to giving you the personalized service you deserve. We have been supplying the medical industry with the finest in surgical instrumentation for all specialties for over 11 years. From Pakistan, we offer complete service and custom instrument manufacturing in addition to our already broad line of instruments. When you buy from WARSI SURGICAL INDUSTRIES, you are guaranteed the best. Not only the best instruments, but the best service as well. If you ever have a question, we're here to help. We will be happy to give you the support you need.

Our Mission

Aim to provide products satisfactory for End user needs with accommodation of reliability for life.

Guarantee

We offer the broadest, highest quality line, reusable surgical instruments. Because of that, our instruments have a lifetime warranty against defects in material or workmanship when used for their intended purpose and when cared for according to industry standards. If you have any questions about use or care please do not hesitate to call us.
When you buy from WARSI, you are guaranteed the best instruments and the best service. Just give us a call and find out how much we already know about surgical specialties and your instrument needs!



Muhammad Azam,
Chief Executive.

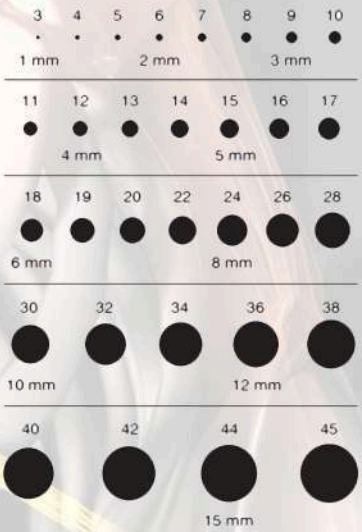
Registration & Membership

Certifications

WARSI SURGICAL INDUSTRIES| Bonkan P.O Gohad Pur 51310 Sialkot|

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		



BRAIN SPATULAS

WARSI SURGICAL INDUSTRIES

THE INSTRUMENTS SPECIALIST

Abdominal Spatula

- **Malleable**

MS20-0847 6 3/4" long x 5/8" wide
MS20-0848 7 1/2" long x 1" wide
MS20-0871 11" long x 1 1/2" to 2 1/2" wide Reverdin
MS20-0874 8" long x 3/4" to 1" wide Tuffier
MS20-0873 12" x 40 mm/50 mm Haberer

MS20-0847



Haberer MS20-0873



Tuffier MS20-0874



Davis Brain Spatula

- **Blue coated / malleable / round end**

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

412-794



412-795



412-797



Blue coated / malleable / 6" (15 cm)
412-790 3 prongs 3 mm
412-792 4 prongs 6 mm

412-790



Blue coated / malleable / 7" (18 cm)
412-791 3 prongs 3 mm
412-793 4 prongs 6 mm

Davis Brain Black Silicon Spatula

- **Silicone coated / malleable / 7˝ (18 cm)**
  CC412-766 small 6 mm & 10 mm
  CC412-767 medium 9 mm & 15 mm
  CC412-768 large 11 mm & 20 mm
  CC412-769 x-large 14 mm & 25 mm

CC412-766



CC412-767



CC412-768



CC412-769



CSU Kloop Neuro Spatula

- 6 1/2˝ (16.5 cm)
  CC412-472



CC412-472

Cushing Brain Depressor Spatula

- Double-ended
  CC412-787 6 3/4" (17.1 cm)
  CC412-789 7 3/4" (19.7 cm



CC412-787

CC412-789



Davis Brain Spatula

- **Malleable / 7˝ (18 cm)**

CC412-770 1/4"
CC412-771 3/8"
CC412-772 1/2"
CC412-773 5/8"
CC412-774 3/4"
CC412-775 1"
CC412-776 1 1/4"
CC412-777 1 1/2"

CC412-772



CC412-773



CC412-774



CC412-775



CC412-776



CC412-777



Sontec Brain Spatula

- **Tapered / malleable / 7˝ (18 cm)**
  CC412-779 2 mm
  CC412-781 4 mm
  CC412-783 6 mm



CC412-779



CC412-781



CC412-783

CASPAR RETRACTOR

• Caspar Cervical Vertebral Retractor Frame

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

WR16-280 stainless steel
WR16-680 titanium



WR16-680



WR16-280

Caspar Cervical Vertebral Retractor Frame

- **Accommodates all blade types / double articulation / 125 mm maximum spread / 8" (20 cm)**
  WR16-28S stainless steel
  WR26-288T titanium





• Caspar Cervical Vertebral Retractor Frame

- **Accommodates all blade types / single articulation / V-handle / 85 mm maximum spread**
  WRR16-230 4 1/2 (11.5 cm)

WRR16-230



• Caspar Cervical Vertebral Retractor Frame

- **For use with the titanium & plastic quick release blades only / double articulation / 100 mm maximum spread**
  WRR16-250 6 1/4" (16 cm)

WRR16-250



• Caspar MIS Cervical Vertebral Column Retractor Frame

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

WR-6-2OS stainless steel
WR-6-2OT titanium



• Caspar Cervical Vertebral Column Retractor Frame

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

WR17-2800 stainless steel



WR17-2800

• HL MIS Retractor Frame Medium

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

WR17-280L



WR17-280L

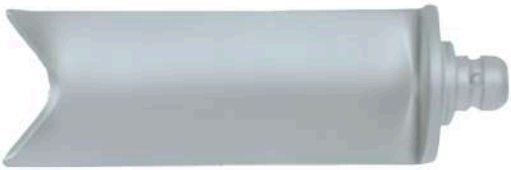
• Caspar V-Blunt Blade

- **Stainless steel**

W1616-450 45 x 20 mm
W1616-452 50 x 20 mm
W1616-454 55 x 20 mm
W1616-456 60 x 20 mm
W1616-458 65 x 20 mm

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

W1616-460 45 x 20 mm
W1616-462 50 x 20 mm
W1616-464 55 x 20 mm
W1616-466 60 x 20 mm
W1616-468 65 x 20 mm



W1616-458 **Stainless Steel**



W1616-460 Plastic / Quick Release

• Caspar Serrated Lateral Blade

- **Stainless steel**

W1616-519 40 x 15 mm extra thin
W1616-520 45 x 20 mm
W1616-522 50 x 20 mm
W1616-524 55 x 20 mm
W1616-526 60 x 20 mm
W1616-528 65 x 20 mm

Anodized aluminum

W1616-510 45 x 20 mm
W1616-512 50 x 20 mm
W1616-514 55 x 20 mm
W1616-516 60 x 20 mm
W1616-518 65 x 20 mm

Plastic / quick release

W1616-530 45 x 20 mm
W1616-532 50 x 20 mm
W1616-534 55 x 20 mm
W1616-536 60 x 20 mm
W1616-538 65 x 20 mm

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

W1616-500 45 x 22 mm
W1616-502 50 x 22 mm
W1616-504 55 x 22 mm
W1616-506 60 x 22 mm
W1616-508 65 x 22 mm



W1616-506 **Titanium / Quick Release**



W1616-532 Plastic / Quick Release



W1616-524 **Stainless Steel**

Caspar Blade Removal Forceps

- **For changing blades**
  W1717-41 straight
  W1717-42 angled



W1717-41



W1717-42

Caspar Hand Universal Retractor

- **For use with the quick release blades only / with depth gauge / screw on blade lock (more secure hold)**
  W1717-43 8" (20 cm)



W1717-43

- **For use with the quick release blades only / with depth gauge / screw on blade lock (more secure hold)**
  W1717-44 8" (20 cm)

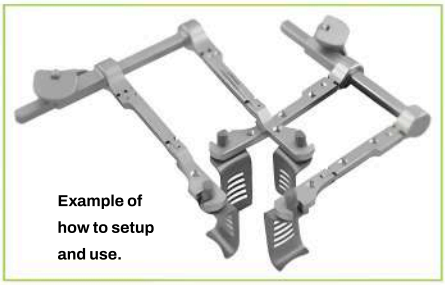


W1717-44



• Caspar Cervical Vertebral Column Quick Release Retractor Frame

- **Accommodates SL-Connect blades / double articulation / 90 mm maximum spread / quick release 416-650**
  W1717-458 trans-verse/stepdown



Example of how to setup and use.



W1717-458

• SL - Connect Blade Insert Instrument

- **7 1/4" (18m mm)**
  W1717-459



W1717-459

• SL - Connect Lateral Blade Titanium

- **Quick release**

Q1716-580 24 x 45
Q1716-582 24 x 50
Q1716-584 24 x 55



Q1716-580



Q1716-582



Q1716-584

• SL - Connect Blunt Blade Titanium

- **Quick release**

Q1716-586 24 x 45
Q1716-588 24 x 50
Q1716-590 24 x 55



Q1716-586



Q1716-588

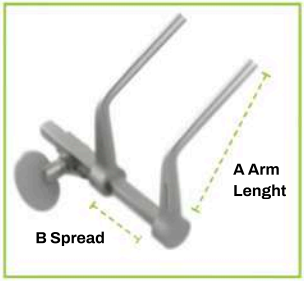


Q1716-590

• Caspar Distractor Vertebral Retractor

- **CR177-R1T right**
  CR177-L1T left

A	B
70 mm	93 mm





CR177-R1T

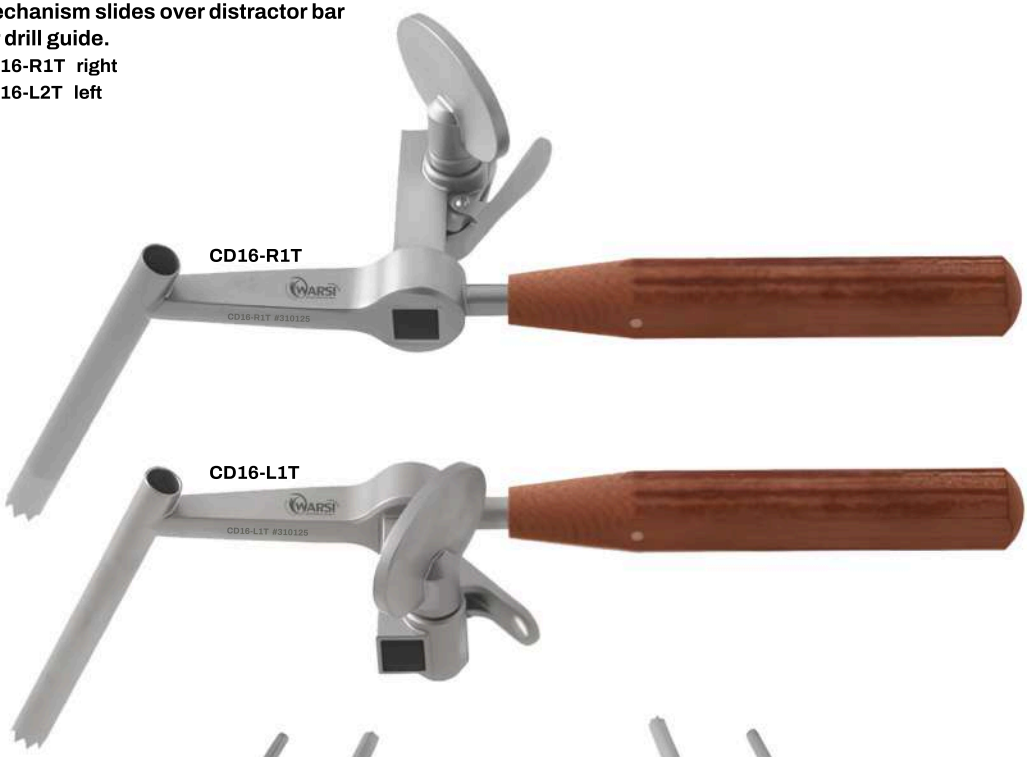


CR177-R1T

• Caspar Drill Guide

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

CD16-R1T right
CD16-L2T left





Caspar Twist Drill

- WR16-R2T 1.7 mm Ø



WR16-R2T

Caspar Screw Post

- For Distraction

WR16-R3T 12 mm
WR16-R4T 14 mm
WR16-R5T 16 mm



WR16-R3T



WR16-R4T

Caspar Screwdriver

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

WR16-R66T



WR16-R66T

Caspar Lumbar Speculum

- Non-reflective / annodized surface / 18 mm wide

WR16-RS1 40 mm in length
WR16-RS2 45 mm in length
WR16-RS3 50 mm in length
WR16-RS4 55 mm in length
WR16-RS5 60 mm in length
WR16-RS6 65 mm in length
WR16-RS7 75 mm in length
WR16-RS8 85 mm in length



WR16-RS4

• Caspar Counter Retractor

- **For Caspar Speculum / 60 mm maximum spread**

CR16-CS1 complete with 5 blades
CR16-S1T retractor only

• Caspar Serrated Lateral Blade

- **For Counter Retractor**

CR16-C1T 35 mm
CR16-C2T 40 mm
CR16-C3T 45 mm
CR16-C4T 50 mm
CR16-C5T 55 mm
CR16-C6T 60 mm
CR16-C7T 65 mm
CR16-C8T 75 mm
CR16-C9T 85 mm



CR16-CS1

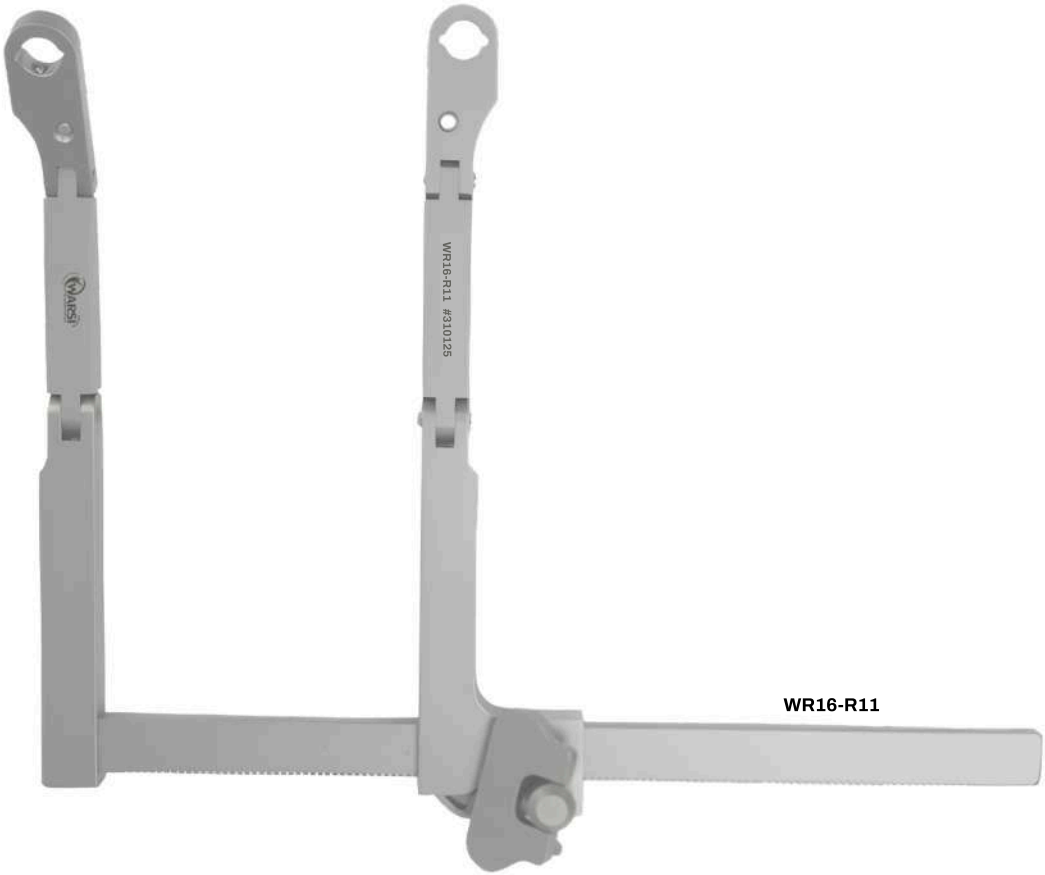


CR16-S1T



Scoville Retractor Frame

- **lumbar retractor system / accommodates all blade types / double articulation / 8 1/4" long with 6 1/2" arms**
  WR16-R11



WR16-R11

• Scoville Lumbar Blade

- **23 mm wide**

SL16-BB1 23 x 35 mm
SL16-BB2 23 x 45 mm
SL16-BB3 23 x 55 mm
SL16-BB4 23 x 65 mm
SL16-BB5 23 x 75 mm
SL16-BB6 23 x 85 mm
SL16-BB7 23 x 100 mm
SL16-BB8 23 x 120 mm

45 mm wide

SL16-B1 45 x 50 mm
SL16-B2 45 x 60 mm
SL16-B3 45 x 70 mm
SL16-B4 45 x 80 mm

60 mm wide

SL16-B1B 60 x 50 mm
SL16-B2B 60 x 60 mm
SL16-B3B 60 x 70 mm
SL16-B4B 60 x 80 mm
SL16-B5B 60 x 100 mm
SL16-B6B 60 x 120 mm



SL16-BB1



SL16-B3



SL16-B1B

• Scoville Middle Lumbar Blade

- **15 degrees**

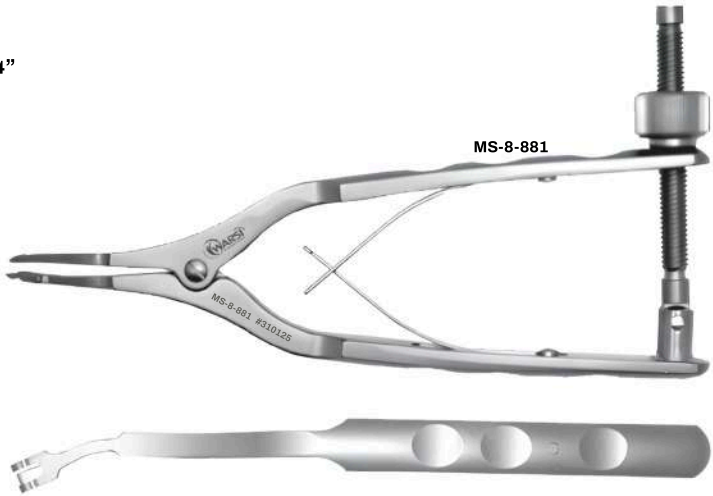
SL16-B60 35 mm
SL16-B61 40 mm
SL16-B62 45 mm
SL16-B63 50 mm
SL16-B64 55 mm
SL16-B65 60 mm
SL16-B66 65 mm
SL16-B67 70 mm
SL16-B68 75 mm
SL16-B69 80 mm


SL16-B61


SL16-B64

• Micro Lamina Spreader

- **With speed lock / many tip widths available / 5 3/4" (14.5 cm)**
  MS-8-881
  With speed lock / deep angle / 6 3/4" (17.1 cm)
  MS-8-882

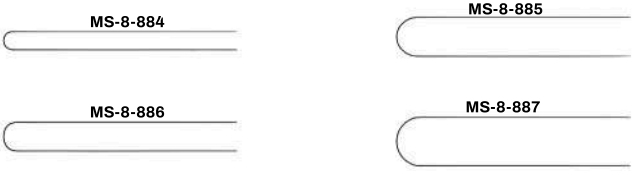




• Caspar Nerve-Root Retractor

- **For micro lumbar dissectomy**
  MS-8-884 4 mm
  MS-8-885 6 mm
  MS-8-886 8 mm
  MS-8-887 10 mm



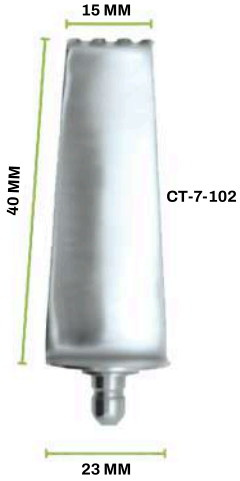


• Cloward Cervical Retractor

- **114 mm maximum spread**
  CT-7-101S complete, with 5 toothed blades
  CT-7-102F frame only

• Toothed Blade

- **For Cloward Cervical Retractor**
  CT-7-102 40 mm x 15/23 mm
  CT-7-103 45 mm x 15/23 mm
  CT-7-104 50 mm x 15/23 mm
  CT-7-105 55 mm x 15/23 mm
  CT-7-106 60 mm x 15/23 mm





McCullough Retractor Set

- **64 mm maximum spread**

RL16-MR1 extended rack 8"



RL16-MR1

• McCullough Retractor Set

- **64 mm maximum spread**

41-6-150 extended rack 8"
41-6-152 black narrow muscle blade 2 cm x 9 cm
41-6-153 black narrow muscle blade 2 cm x 10 cm
41-6-154 black narrow muscle blade 2 cm x 11 cm
41-6-157 black wide muscle blade 2.7 cm x 9 cm
41-6-158 black wide muscle blade 2.7 cm x 10 cm
41-6-159 black wide muscle blade 2.7 cm x 11 cm
41-6-161 black hook blade 7 cm
41-6-162 black hook blade 8 cm
41-6-163 black hook blade 9 cm



41-6-152 41-6-153 41-6-154 41-6-157 41-6-159



41-6-161 41-6-162

• Neuro Caliper

- 8 3/4˝ (22 cm)
  LS-55-2250



• Caspar System Complete Set

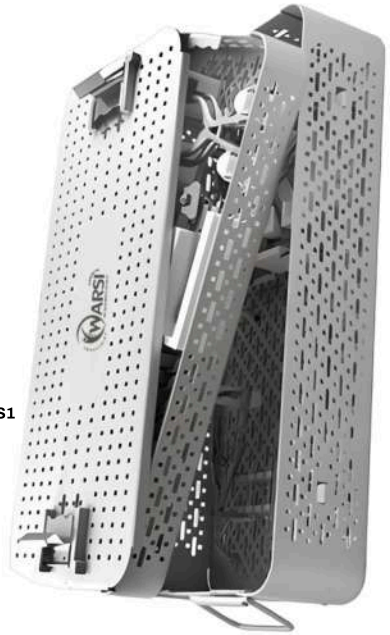
- **CT-43-SS1 tray**
  CT-43-SS2 set Call for individual & set pricing

Set includes:

CT-43-S1 caspar cervical vertebral column retractor frame
CT-43-S2 caspar hand retractor with depth gauge 8"

OR

CT-43-S1B caspar hand retractor with screw on blade 7 1/4"
CT-43-S3 caspar cervical vertebral retractor "v-shape 4 1/2"
CT-43-S4 caspar cervical vertebral retractor 8" double articulating
CT-43-S5 caspar cervical vertebral retractor 6 1/2" single
CT-43-S6 caspar forceps for changing blades
CT-43-S7 caspar distractor left
CT-43-S8 screw post for distractor 14 mm
CT-43-S9 caspar screwdriver universal
CT-43-S9N caspar twist drill 1.7mm
CT-43-S9D drill guide 65 degree angle right phenolic handle
CT-43-S10 drill guide 65 degree angle left phenolic handle
CT-43-S11 micro lamina spreader deep angle with speed lock 6 3/4"
assorted blades (10 sets) different sizes
tray



CT-43-SS1



CT-43-SS2

Drill Guide

- NS-122-01C Right (illustrated)
- SP-122-02C Left



NS-122-02C

Screw Driver

- NS-122-03C



NS-122-03C

Distraction Drill

- NS-122-04C
- For pre-drilling pilot holes for screws
- with drill guide 2mm



NS-122-04C

Distraction Screws

- 7cm post length
- Sterile packed

	Thread length
NS-122-05C	12mm
NS-122-05CA	14mm
NS-122-05CB	16mm



NS-122-05CA

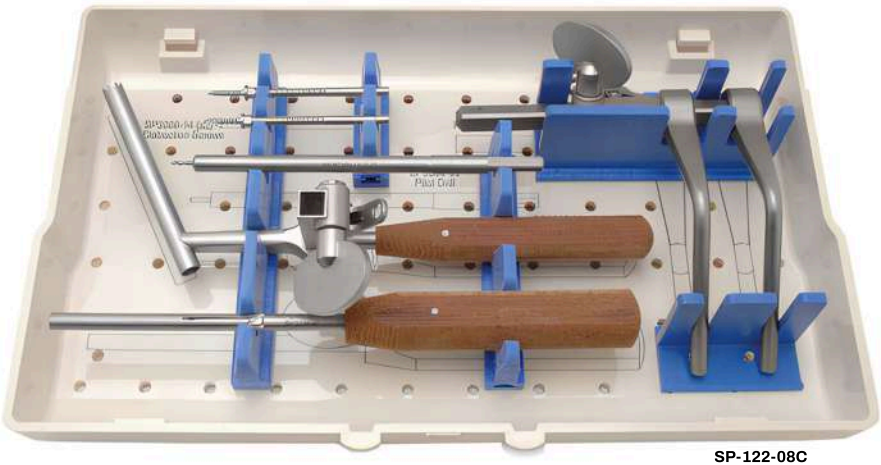
Distraction Retractor

- SP-122-06C Right (illustrated)
- SP-122-07C Left



SP-122-02C

Caspar Cervical Distraction Set



SP-122-08C

Caspar Vertebral Body Distraction Set

- SP-122-08C
- For retraction of the vertebral body in the cervical spine to allow access to the disc
- Less instrumentation in the disc space
- Distraction scews are secured into the vertebral body either side of the disc, the retractor is then slid over the screws and retracted

Complete set consisting of:

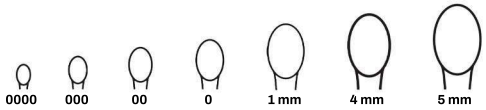
Qty	Order Code	Description
1	SP-122-06C	Retractor Right
1	SP-122-01C	Drill Guide Right
1	SP-122-03C	Screw Driver
1	SP-122-04C	Distraction Drill
1	SP-122-05CA	Sterile Distraction Screws 14mm Boxes of 10

BAYONET FORCEPS

Bayonet Cervical Micro Curettes

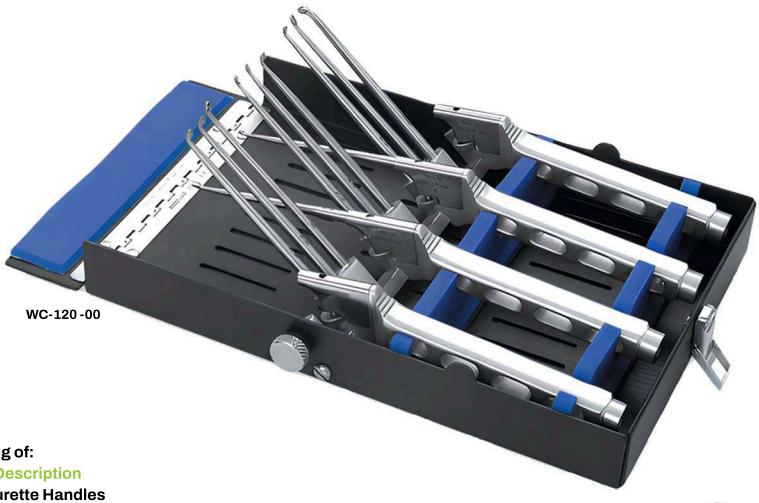
- Bayonet handled design for improved visualisation
- 360° rotating shafts are interchangeable
- Shaft length is adjustable
- Lightweight handle
- Instrument length: 23cm max. for standard curettes
- Shaft length 10cm

  Straight, Forward Angle & Down Pushing cups are available





Cervical Micro Discectomy Curette Set



- Complete Set Consisting of:

Qty	Order Code	Description
4	WC120-00	Curette Handles
12		Cervical Curette Shafts - includes:
5		Straight Shafts/5 Angled Shafts/2 Down Pushing Shafts
1	WC120-02	Sterilizing Case



0 SIZE CHART

Straight Cup Cup Size

WC120-03 00000
WC120-04 0000
WC120-05 000
WC120-06 00
WC120-07 0

Forward Angle Cup Size

WC120-08 00000
WC120-09 0000
WC120-10 000
WC120-11 00
WC120-12 0

Down Pushing Cup Size

WC120-13 00
WC120-14 0

• Light-Grip Lumbar Curettes

- 26cm/10 1/4”overall length
- 13cm/5 1/4”handle length
- Colour codedhandles

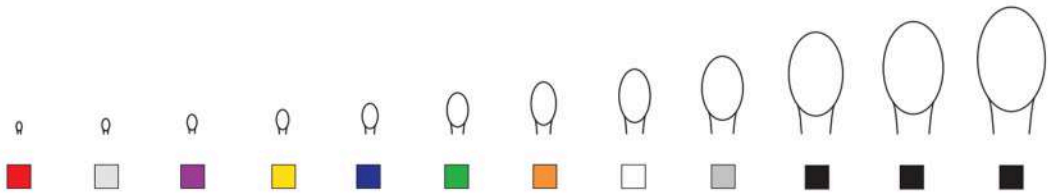


WC-120-33



Light-Grip Cervical Curette Rack
Holds 12 Cervical Curettes
WC-120-46S

Cup Size	Straight	Forward	Down
6 -0	WC-120-34	WC-120-34F	WC-120-34D
5 -0	WC-120-35	WC-120-35F	WC-120-35D
4 -0	WC-120-36	WC-120-36F	WC-120-36D
3 -0	WC-120-37	WC-120-37F	WC-120-37D
2 -0	WC-120-38	WC-120-38F	WC-120-38D
0	WC-120-39	WC-120-39F	WC-120-39D
1	WC-120-40	WC-120-40F	WC-120-40D
2	WC-120-41	WC-120-41F	WC-120-41D
3	WC-120-42	WC-120-42F	WC-120-42D
4	WC-120-43	WC-120-43F	WC-120-43D
5	WC-120-44	WC-120-44F	WC-120-44D
6	WC-120-45	WC-120-45F	WC-120-45D



6-0 cup size | 5-0 cup size | 4-0 cup size | 3-0 cup size | 2-0 cup size | 0 cup size | 1 cup size | 2 cup size | 3 cup size | 4 cup size | 5 cup size | 6 cup size

• Light-Grip Lumbar Curettes

- 26cm/10 1/4”overall length
- 13cm/5 1/4”handle length
- Colour codedhandles

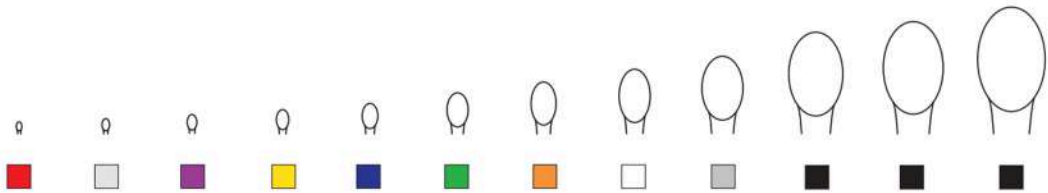


WC-120-33K



Light-Grip Cervical Curette Rack
Holds 12 Cervical Curettes
WC-120-46K

Cup Size	Straight	Forward	Down
6 -0	WC-120-34K	WC-120-34S	WC-120-34X
5 -0	WC-120-35K	WC-120-35S	WC-120-35X
4 -0	WC-120-36K	WC-120-36S	WC-120-36X
3 -0	WC-120-37K	WC-120-37S	WC-120-37X
2 -0	WC-120-38K	WC-120-38S	WC-120-38X
0	WC-120-39K	WC-120-39S	WC-120-39X
1	WC-120-40K	WC-120-40S	WC-120-40X
2	WC-120-41K	WC-120-41S	WC-120-41X
3	WC-120-42K	WC-120-42S	WC-120-42X
4	WC-120-43K	WC-120-43S	WC-120-43X
5	WC-120-44K	WC-120-44S	WC-120-44X
6	WC-120-45K	WC-120-45S	WC-120-45X



Karlin Style Bayonet Cervical Micro Curettes

- **Bayonet Cervical Curette**
- 21.5cm/8 1 /2" overall length
- 9cm/3 1/2" shaft length



WC120 -15

Straight Cup	Forward Angled	Cup Size
WC-120-16	WC-120-20	0
WC-120-17	WC120-21	00
WC-120-18	WC-120-22	000
WC-120-19	WC-120-23	0000



- **Long Bayonet Cervical Curette**
- 24cm/9 1/2" overall length
- 12cm/4 3/4" shaft length



WC120 -15A

Straight Cup	Forward Angled	Cup Size
WC-120-24	WC-120-28	0
WC120-25	WC120-29	00
WC120-26	WC120-30	000
WC120-27	WC120-31	0000



- **Container for 12 curettes**

WC-120-32S



WC120 -32S

Bayonet Bipolar Forceps

- 19cm/7 1/2" length
- Tip Sizes:
- 0.7mm WC-121-28H
  1mm WC-121-29H
  2mm WC-121-30H



WC-121-30H

Straight Bipolar Forceps

- 19cm/7 1/2" length
- Tip Sizes:
- 0.7mm WC-121-31H
  1mm WC-121-32H



WC-121-31H

Bayonet Bipolar Forceps

- 19cm/7 1/2" length
- Tip Sizes:

0.3mm WC-121-33H
0.7mm WC-121-34H
1.22mm WC-121-35H



WC-121-34H

Yasargil Bayonet Micro Needle Holder

- Flat Handled
- Delicate 1mm Jaws
- Available with & without lock
- Straight & Curved with Length of 23cm/9”



WC-121-13H

Bayonet Micro Needle Holder

- Round Bodied
- Delicate 1mm Jaws



WC-121-14H

With Lock	Straight	Curved
21cm/8 1/4”	WC-121-14H	WC-121-16H
23cm/9”	WC-121-15H	WC-121-17H

With Lock	Straight	Curved
21cm/8 1/4”	WC-121-18H	WC-121-20H
23cm/9”	WC-121-19H	WC-121-21H

Yasargil Bayonet Micro Forceps

- Flat Handled
- Blunt 1mm Tips



22.5cm/8 1/4”	WC-121-22H
24cm/9 1/2”	WC-121-23H

Bayonet Bipolar Forceps

- 25cm/9 3/4" length
- Tip Sizes:
- 0.3mm SP-121-36H
- 0.7mm SP-121-37H
- 1.2mm SP-121-38H



WC-121-37H



WC-121-38W

- Fitting Block End Forceps
- Banana Plug Vallylab Machine Fitting
- 4.5 metre length



WC-121-39W

- Fitting Block End Forceps
- Erbe BM780 Machine Fitting
- 4.5 metre length

Bayonet Bipolar Forceps Supergliss Non-Stick Tips

- 23cm/9"
- Tip Sizes:
- 0.4mm WC-121-39H
- 0.2mm WC-121-40H
- 1mm WC-121-41H
- 1.2mm WC-121-42H



WC-121-40H



The material specially developed for SuperGliss non-stick forceps prevents overheating of the tips during coagulation. Laboratory tests con rm the outstanding non-stick properties that last throughout the lifetime of the instrument.

Yasargil Bayonet Micro Scissors

- Flat Handled
- 22.5cm/8 3/4" length
- Available in standard & vannas blades



WC-121-25H

Standard Blade



Straight
WC-121-24H



Curved
WC-121-25H

Vannas Blades



Straight
WC-121-26H



Curved
WC-121-27H

Straight Bipolar Forceps

- 10.5cm/4 1t/4" length
- Tip Sizes:
- 0.7mm SP-121-25H
  1mm SP-121-26H
  Blunt SP-121-27H



WC-121-27H

Straight Bipolar Forceps

- 16.5cm/6 1/2" length
- 0.7mm SP-121-28H
  1mm SP-121-29H



WC-121-21H

• Warsi Zielke Curette

- 21cm/8 1/4" Overall Lenght
- To Be Customized



WC-120-47

Straight	Size	Angled	Size
WC-120-46	8mm	SP-120-46A	8mm
WC-120-47	11mm	SP-120-47A	11mm

• Comfort Handle Curette

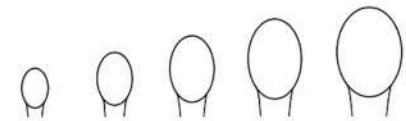
- 29cm/11 1/2" overall length
- 20cm handle length



WC-121-11H



Straight Cup	Size	Angled Cup	Size
WC-121-11	6.5mm	WC-121-16	6.5mm
WC-121-12	8.5mm	WC-121-17	8.5mm
WC-121-13	11mm	WC-121-18	11mm
WC-121-14	13mm	WC-121-19	13mm
WC-121-15	15mm	WC-121-20	15mm



NEURO SPINAL RETR

WARSI SURGICAL INDUSTRIES

THE INSTRUMENTS SPECIALIST

• 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


412-552


412-557T


412-548T


412-550


412-551

• Oschner Dissector

- **Double-ended / curved / smooth blunt ends / 7˝(18 cm)**

OD700-152 1 mm x 2 mm tip
OD700-154 3 mm x 4 mm tip
OD700-152T 1 mm x 2 mm tip titanium
OD700-154T 3 mm x 4 mm tip titanium



• Olivecrona Dissector

- **Double-ended / curved / with Ligature Guide**

OD700-164 1 mm x 2 mm tip 7˝(18 cm)
OD700-165 2 mm x 3 mm tip 7" (18 cm)
OD700-166 3 mm x 4 mm tip 7˝(18 cm)
OD700-168 1 mm x 2 mm tip 7 3/4˝(19.5 cm)
OD700-170 3 mm x 4 mm tip 7 3/4˝(19.5 cm)
OD700-160 2 mm x 3 mm tip 9 1/2˝(24 cm)
OD700-162 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)**

OD700-545 3 mm delicate
OD700-546 4 mm regular



• Lemmon Dissector

- **Semi sharp / 4 mm tip / 6 3/4˝ (17 cm)**

OD700-420 slight curve
OD700-421 medium curve
OD700-423 full curve



• Yasargil Bayonet Raspatory Titanium

- **Curved down / 7 1/4˝ (18 cm)**
  OD700-431T



OD700-431T

• Yasargil Dissector Raspatory Titanium

- **Bayonet / 9 1/4˝ (23.5 cm)**
  OD700-436T 1.15 mm wide tip
  OD700-437T 1.7 mm wide tip
  OD700-438T 2.1 mm wide tip



OD700-436T

• Oschner Dissector

- **Finder Dissection / Angled with Ball tip / 45° / 7 1/2˝ (19 cm)**
  OD700-150I



OD700-150I

• Ochsner-Warsi Straight Dissector

- **Finder Dissection / Angled with Ball tip / 45° / 7 1/2˝ (19 cm)**
  OD700-15I



OD700-15I

• Nelms Suction Elevator

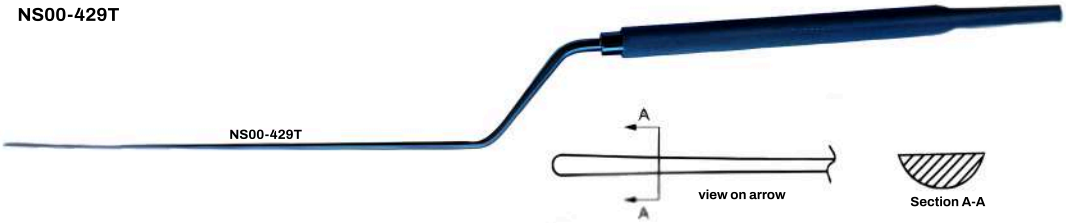
- **NS00-310 suction freer style sharp 7" (18 cm)**
  NS00-312 suction freer style blunt 7" (18 cm)
  NS00-314 suction cottle style blunt 7 1/2" (19 cm)



NS00-312

• Yasargil Bayonet Elevator Titanium

- **Straight oval tip (2.75mm wide) / 8 7/8″ (22 cm)**
  NS00-429T



• Cobb Spinal Elevator

- **Sharp / stainless / 11″ (28 cm)**
  NS30-654 3/8″ tip
  NS30-655 1/2″ tip
  NS30-656 3/4″ tip
  NS30-657 1″ tip
  NS30-658 1 1/4″ tip



NS30-655A

Sharp / stainless / aluminum handle / 11″ (28 cm)
NS30-654A 3/8″ tip
NS30-655A 1/2″ tip
NS30-656A 3/4″ tip
NS30-657A 1″ tip
NS30-658A 1 1/4″ tip

• Cobb Spinal Elevator

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

CE35-320 3/8"
CE35-322 1/2"
CE35-324 3/4"
CE35-325 1"
CE35-326 1 1/4

CE35-320



Long phenolic handle / 13˝ (33 cm)

CE35-326A size 1/2
CE35-326B size 5/8
CE35-326C size 3/4
CE35-326D size 1
CE35-326E size 1 1/8

CE35-326C



Long phenolic handle / 15˝ (38 cm)

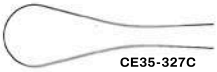
CE35-327A size 1/2
CE35-327B size 5/8
CE35-327C size 3/4
CE35-327D size 1
CE35-327E size 1 1/ 8"



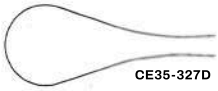
CE35-327A



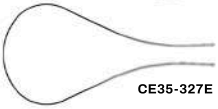
CE35-327B



CE35-327C



CE35-327D



CE35-327E

• Freer/Pennington Extra Long Spinal Elevator

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

CE100-791

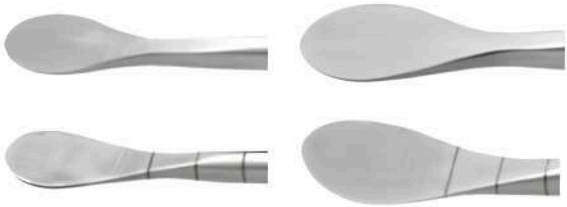


CE100-791

• Cobb Spinal Elevator

- **Sharp / black handle / 16 1/2" (41.9 cm)**
  CC20-627B small cobb
  CC20-628B large cobb

  Sharp / green handle / 16 1/2" (41.9 cm)
  CC20-627G small cobb
  CC20-628G large cobb





CC20-627B



CC20-628G

• Freer/Pennington Extra Long Spinal Elevator

- **Blunt / blunt / 10 mm ends / 12" (30.5 mm) / extra extra large**
  CC100-791



SPINAL RETRACTOR

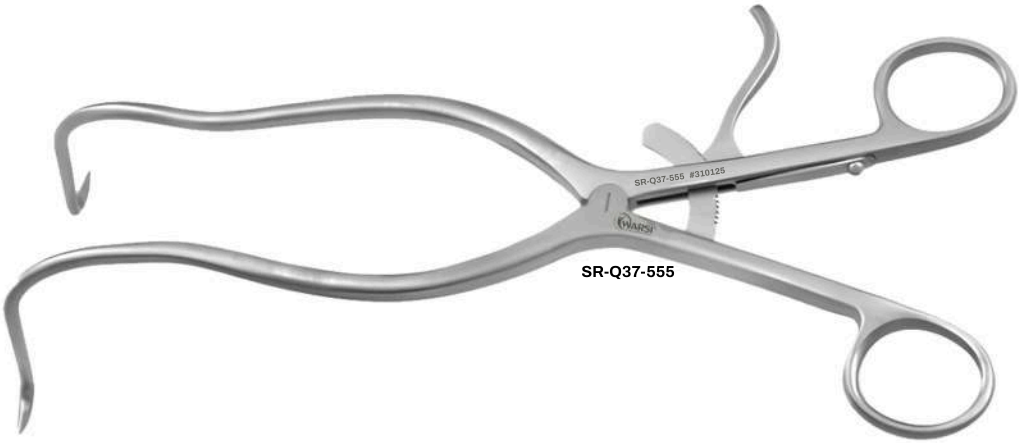
WARSI SURGICAL INDUSTRIES

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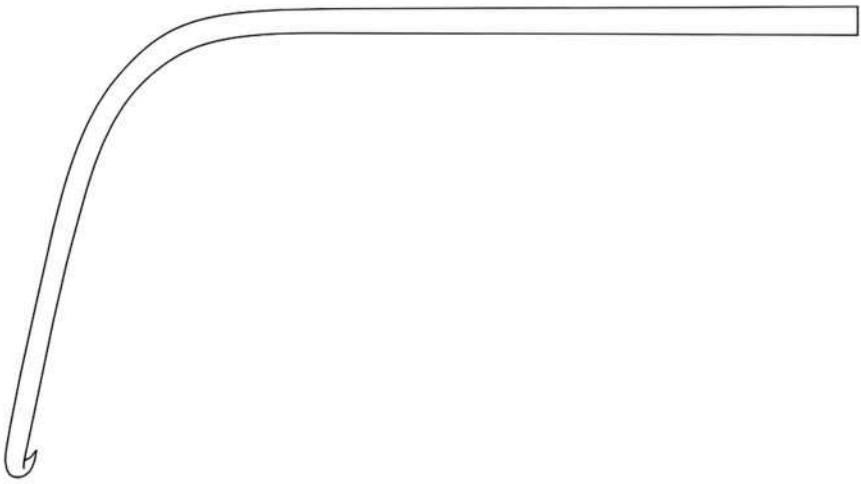
• Gelpi Original Spinal Retractor

- **Deep angle / parallel tips / multilevel distraction**

SR-Q37-555

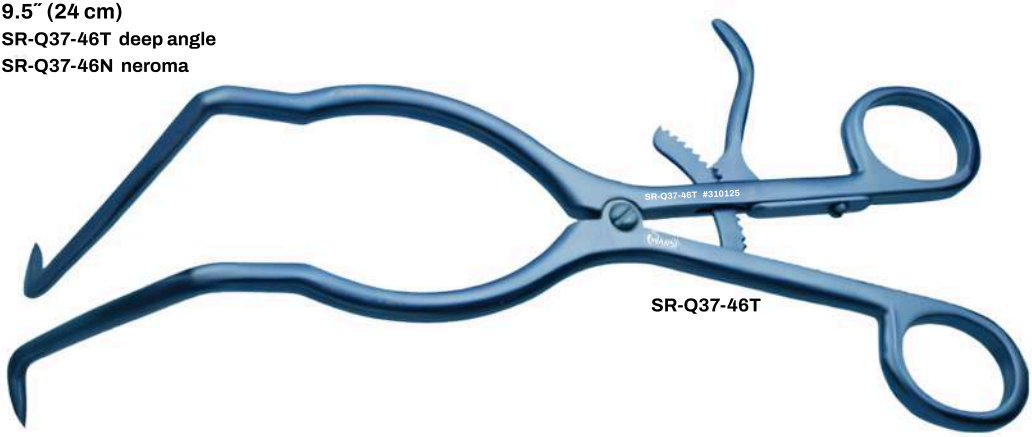


SR-Q37-555



• Gelpi Retractor Titanium

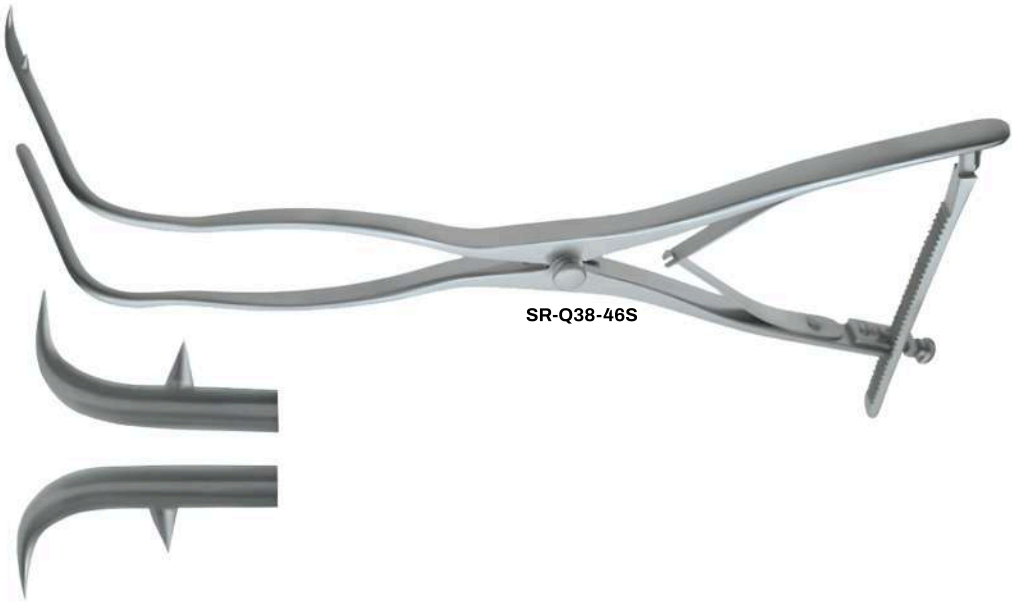
- **Parallel tips / multilevel distraction / 9.5˝ (24 cm)**
  SR-Q37-46T deep angle
  SR-Q37-46N neroma



SR-Q37-46T

• Gelpi Spinal Retractor

- **Deep angle / double prongs / with ratchet / 13” (33 cm)**
  SR-Q38-46S



SR-Q38-46S

• Gelpi Spinal Retractor

- **90˚ angle / with speed lock**

SR-Q37-46S 1.5" / 11.5"
SR-Q37-47S 2" / 12"
SR-Q37-48S 3" / 13"



SR-Q37-46S



SR-Q37-47S

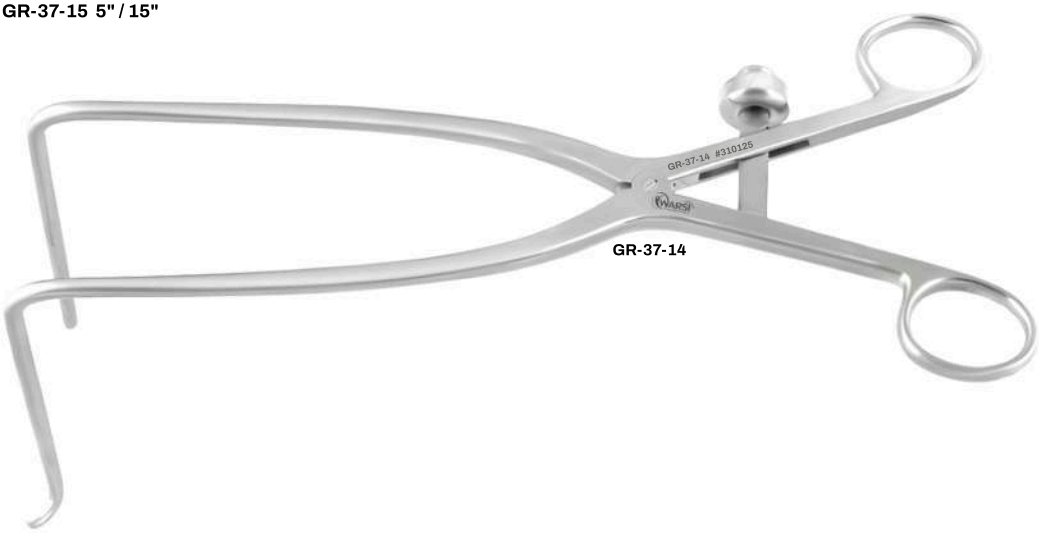


SR-Q37-48S

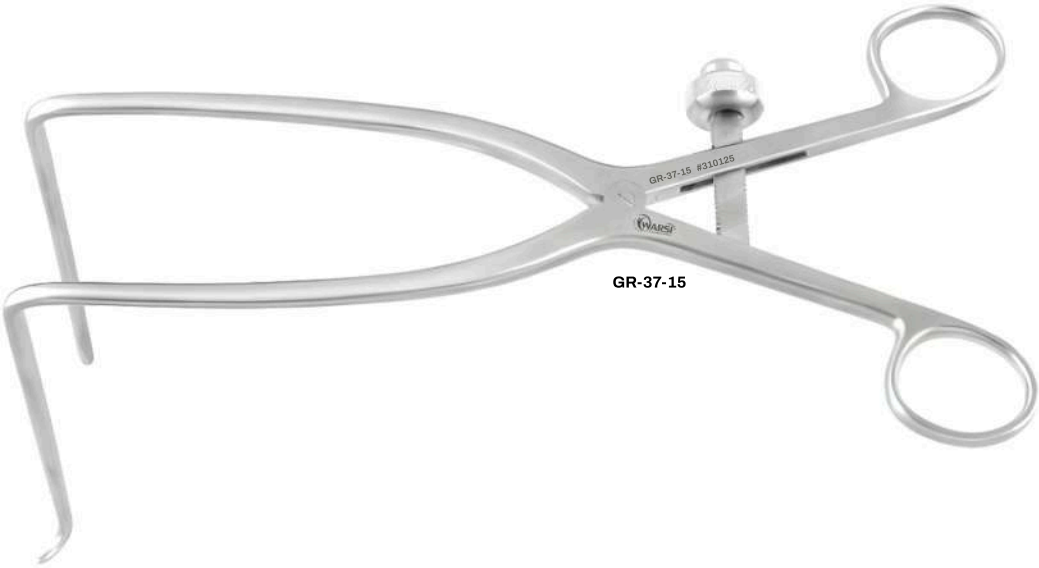
• Gelpi Spinal Retractor

- **90° angle / with speed lock**

GR-37-14 4" / 14"
GR-37-15 5" / 15"



GR-37-14

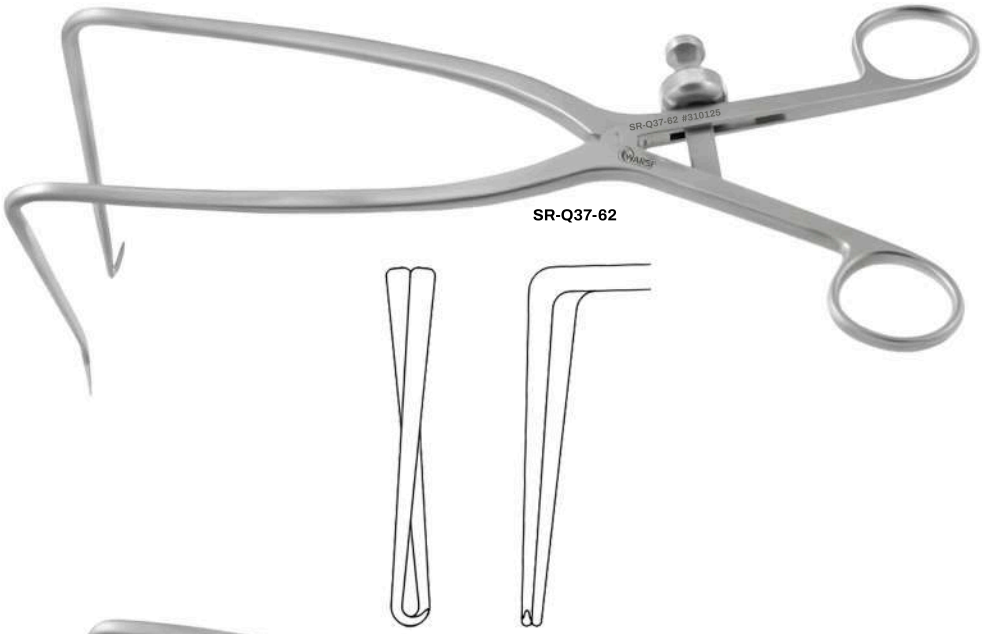


GR-37-15

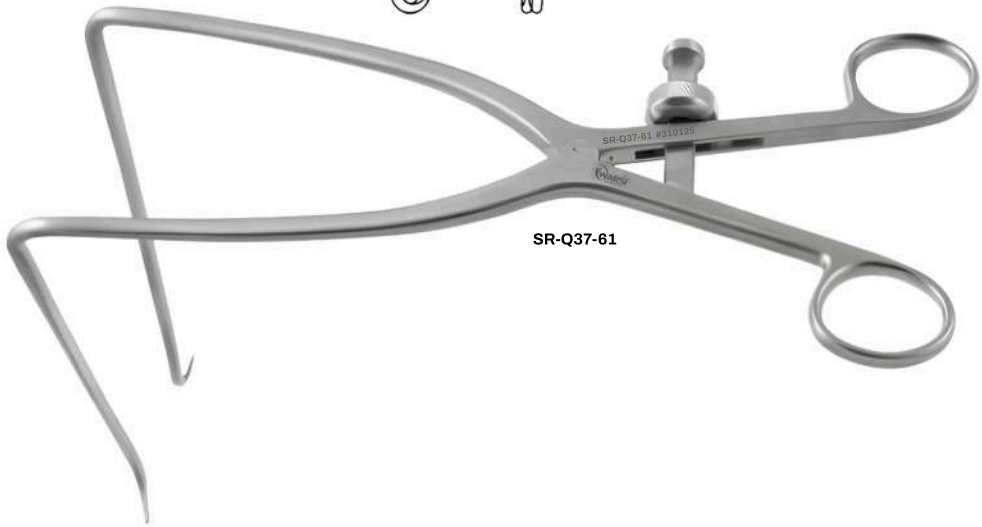
• Neroma Gelpi Spinal Retractor

- **90˚ angle / blunt / with speed lock**

SR-Q37-61 14" overall length with 4" deep arms
SR-Q37-62 15" overall length with 5" deep arms



SR-Q37-62



SR-Q37-61

• Gelpi Retractor

- **Parallel prongs with blunt tips / 6 1/2" (16.5 cm)**
  WR1-2-011M



WR1-2-011M

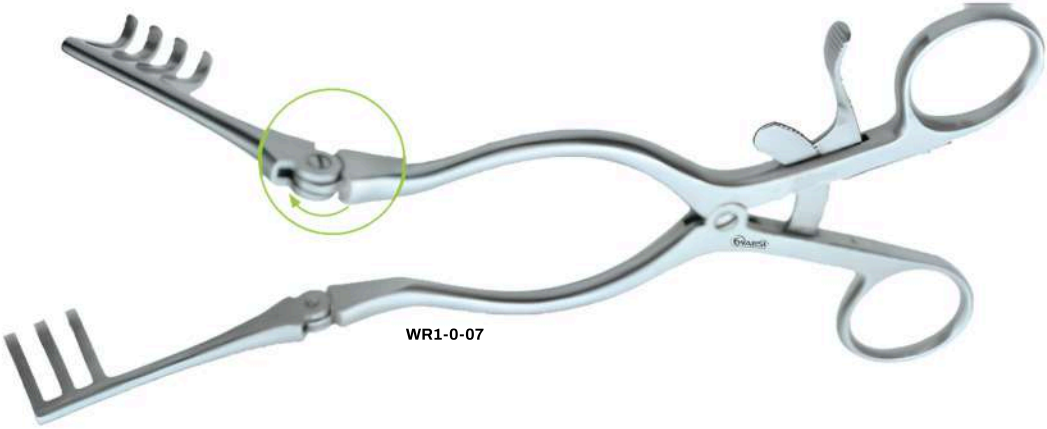


WR1-2-011M

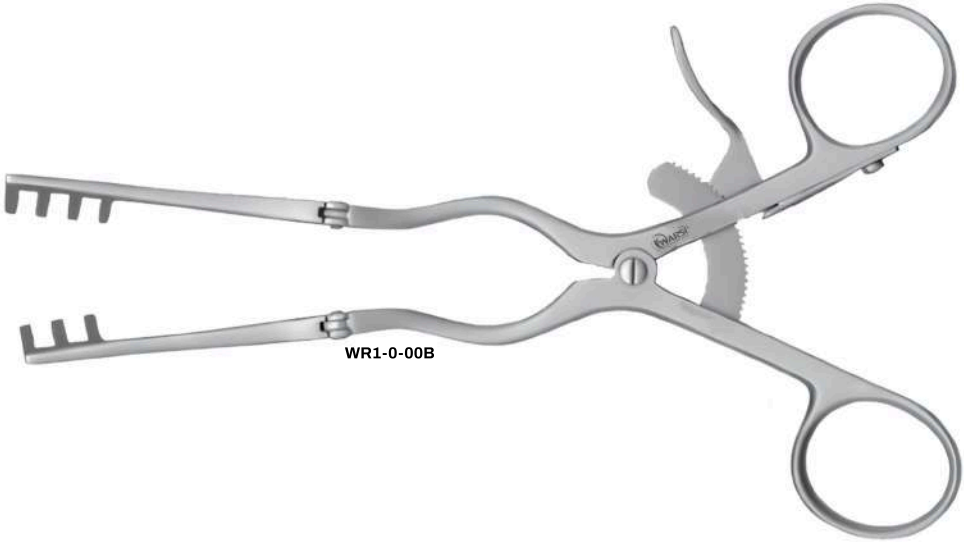
• Weitlaner Retractor

- **Hinged arms / 3 x 4 prongs**

WR1-0-06 sharp 5 1/2˝ (14 cm)
WR1-0-07 blunt 5 1/2˝ (14 cm)
WR1-0-08 sharp 6 1/4˝ (16 cm)
WR1-0-09 blunt 6 1/4˝ (16 cm)
WR1-0-00 sharp 8˝ (20.5 cm)
WR1-0-00B blunt 8˝ (20.5 cm)



WR1-0-07



WR1-0-00B

• Adson Cerebella Retractor

- **4 x 4 sharp prongs / 7 1/2˝ (19 cm)**

WR1-1-02 straight arms
WR1-1-03 angled arms



WR1-1-03

• Weitlaner Retractor Titanium

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

WR1-1-06



WR1-1-06

• Weitlaner Retractor

- **2 x 3 prongs**

WR1-2-020 sharp 4˝ (10 cm)
WR1-2-021 blunt 4˝ (10 cm)

3 x 4 prongs

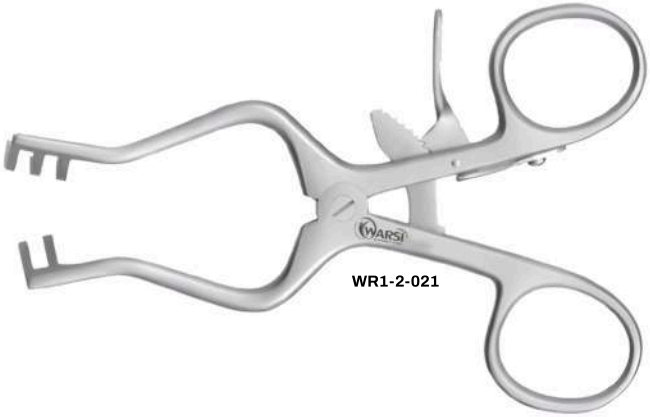
WR1-2-022 sharp 5 1/2˝ (14 cm)
WR1-2-023 blunt 5 1/2˝ (14 cm)
WR1-2-024 sharp 6 1/4˝ (16 cm)
WR1-2-025 blunt 6 1/4˝ (16 cm)
WR1-2-026 sharp 8˝ (20.5 cm)
WR1-2-027 blunt 8˝ (20.5 cm)
WR1-2-028 sharp 9 1/2˝ (24 cm)
WR1-2-029 blunt 9 1/2˝ (24 cm)



Sharp



Blunt



WR1-2-021

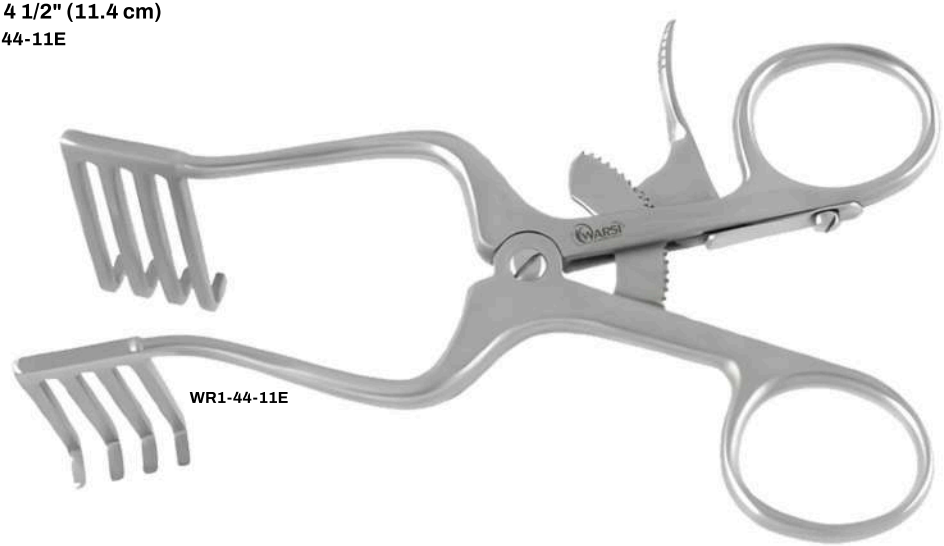


WR1-2-025

• Weitlaner Extended Blades Retractor

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

WR1-44-11E



WR1-44-11E

• Beckman-Adson Retractor

- 4 x 4 prongs / 12 1/4˝ (31 cm) / hinged

WR1-44-11B blunt
WR1-44-11S sharp



WR1-44-11B

• Mollison Retractor

- **2 x 2 sharp 12 mm blades / 5" (13 cm)**
  MW1-45-01



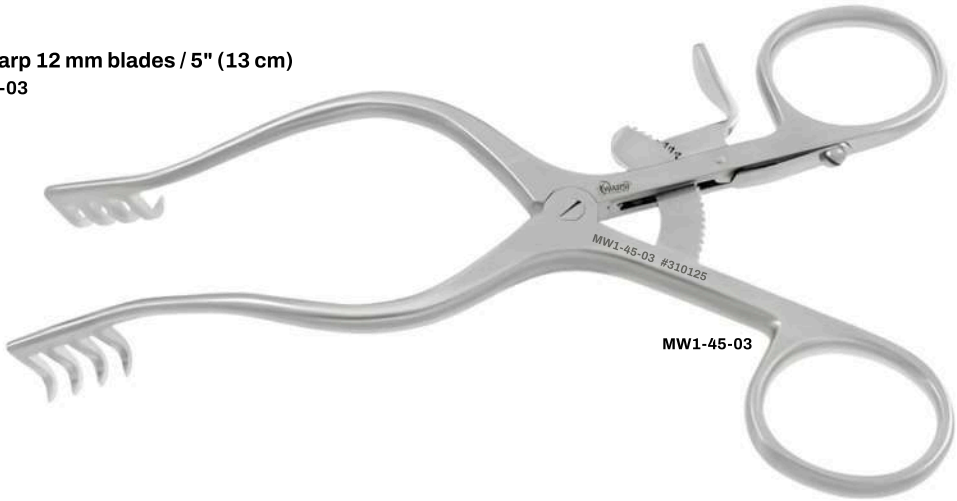
MW1-45-01

- **2 x 2 sharp 12 mm blades / 5" (13 cm)**
  MW1-45-02



MW1-45-02

- **2 x 2 sharp 12 mm blades / 5" (13 cm)**
  MW1-45-03

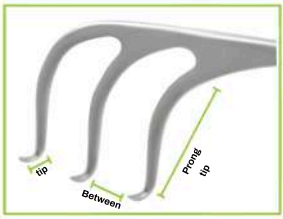


MW1-45-03

• Sontec Multi-Level Gelpi Retractor

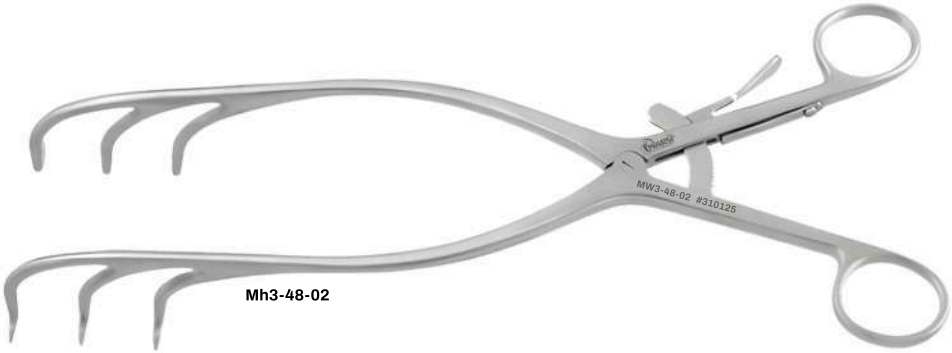
- **Sharp / 3 x 3 parallel prongs / 25 mm between prongs / 12" (30.5 cm)**

MH3-48-01 50 mm prong tip
MH3-48-02 35 mm prong tip
MH3-48-03 60 mm prong tip
MH3-48-04 95 mm prong tip





Mh3-48-01



Mh3-48-02



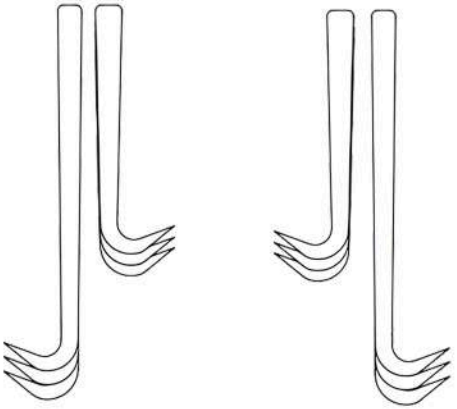
Mh3-48-03

• Warsi Multi-Level Off Set Arms Gelpi Retractor

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

Mh4-49-001 right 64 mm & 44 mm prongs 7 mm tip

Mh4-49-002 left 44 mm &64 mm prongs 7 mm tip



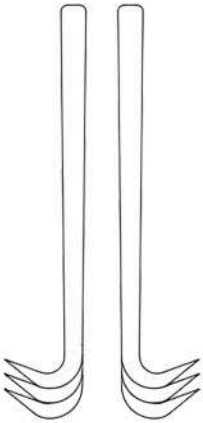


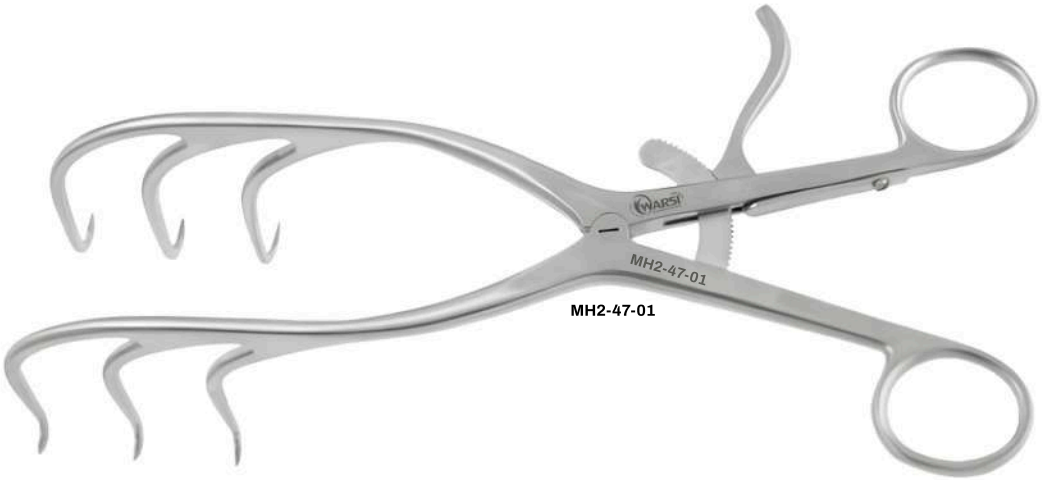
Mh4-49-001



• Sontec Multi-Level Gelpi Retractor

- **Sharp / 3 x 3 prongs / with off-set arms / 10.5" (27 cm)**
  MH2-47-01 60 mm prongs 7 mm tip

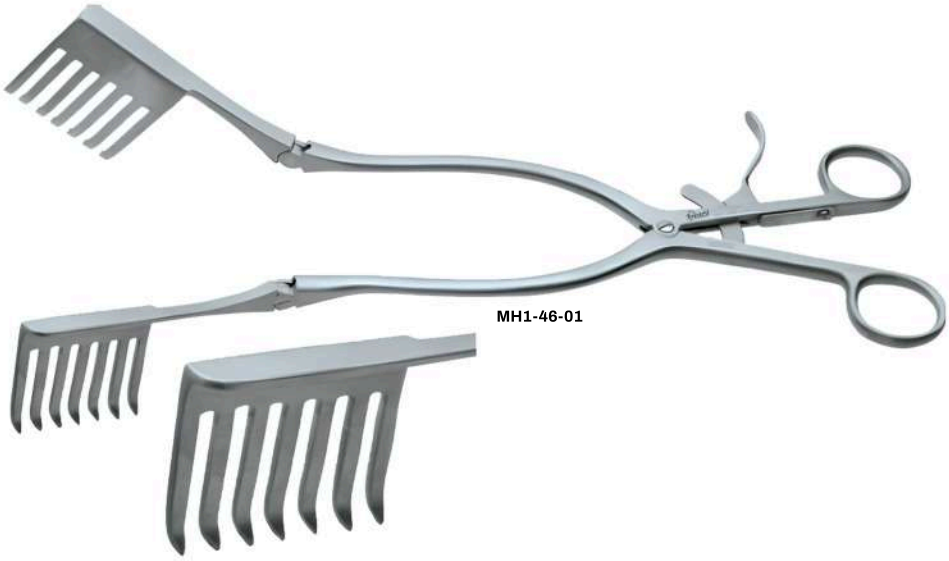




MH2-47-01

• Beckman-Eaton Retractor

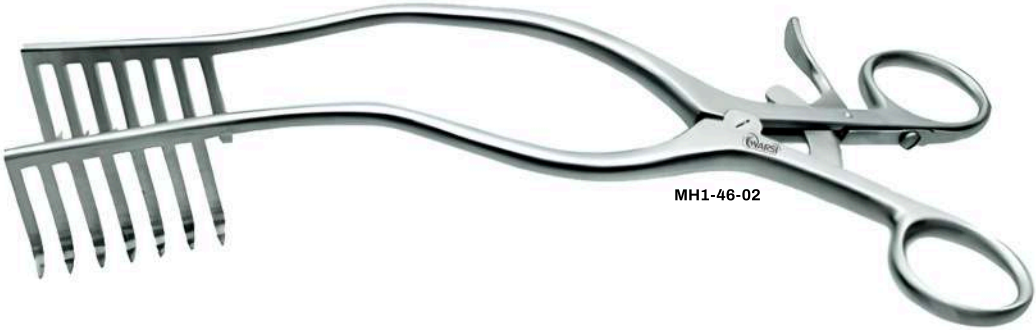
- **Hinged blades / 7 x 7 prongs / sharp / 12 1/2˝ (32 cm)**
  MH1-46-01



MH1-46-01

• Miskimon Cerebellum Retractor

- **7 x 7 prongs**
  MH1-46-02 sharp 7 3/4˝ (20 cm)



MH1-46-02

• Spinal Distractor/Compressor

- **11 1/4" (28.6 cm)**
  MC-001-22 distractor
  MC-001-23 compressor



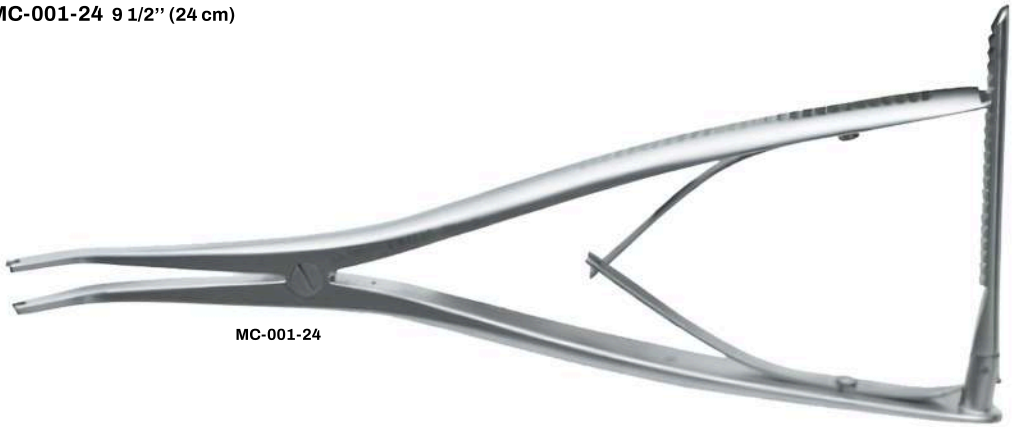
MC-001-22



MC-001-23

• Spinal Distractor

- **1/4˝ rods / 45˚ angle / small style**
  MC-001-24 9 1/2'' (24 cm)



MC-001-24

• Spinal Compressor

- **Small style**
  MC-011-01 10'' (25.5 cm)



MC-011-01

• Spinal Distractor

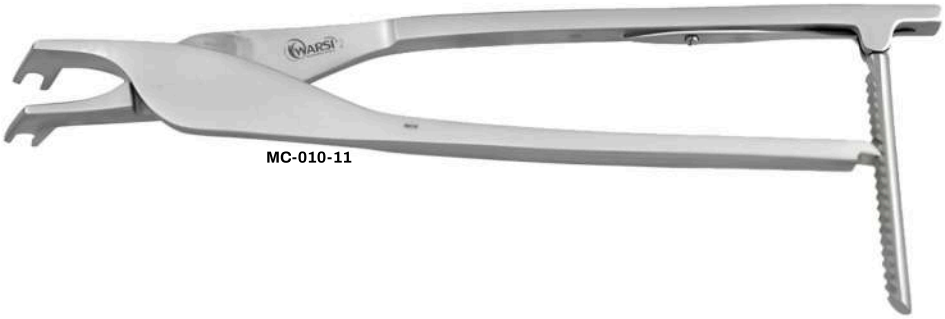
- **1/4˝ rods / 45˚ angle / large style**
  MC-011-02 12 1/2˝ (32 cm)



MC-011-02

• Spinal Compressor

• **Large style**
MC-010-11 12˝ (30.5 cm)



MC-010-11

• Double-Action Distractor

• **1/4" rods / 30˚ angle / 15" (38.1 cm)**
MC-010-12

MC-010-12



• Double-Action Compressor

• **1/4" rods / 30˚ angle / 15" (38.1 cm)**
MC-010-13



MC-010-13

• MICRO DISCECTOMY RETRACTOR



- This Specialist Retractor allows the Consultant the optimal exposure to the Disc with the minimum incision.
- The Design of the Retractor allows unhindered access around the wound with the jointed arms folding along the patients Back.
- The Black finish eliminates distracting re□ections under the Microscope during Surgery.
- The wide selection of Blades available allows the Surgeon full flexibility in approaches to the Disc.

Basic Micro-Discectomy Retractor Set

WS5200 -00

Complete set consisting of:

Qty	Order Code	Description
1 each	WS5202 -00	Retractor Frame
4 pairs	WS5204 -40	Wide Muscle Blades Sizes 4cm to 7cm depth
4 pairs	WS5206 -40	Narrow Muscle Blades Sizes 4cm to 7cm depth
4 each	WS5208 -40	Hook Blades Sizes 3cm to 6cm depth
4 each	WS5210 -40	Toothed Blades Sizes 3cm to 6cm depth
1 each	WS5200-10	Instrument Container

Extended Micro-Discectomy Retractor Set

WS5200 -00

Complete set consisting of:

Qty	Order Code	Description
2 each	WS5202 -00	Retractor Frame
6 pairs	WS5204 -40	Wide Muscle Blades Sizes 3cm to 8cm depth
6 pairs	WS5206 -40	Narrow Muscle Blades Sizes 3cm to 8cm depth
6 each	WS5208 -40	Hook Blades Sizes 2cm to 7cm depth
6 each	WS5210 -40	Toothed Blades Sizes 2cm to 7cm depth
1 each	WS5200-10	Instrument Container

• Love Nerve Root Retractor

- 22cm/8 3/4”
  5mm tip width

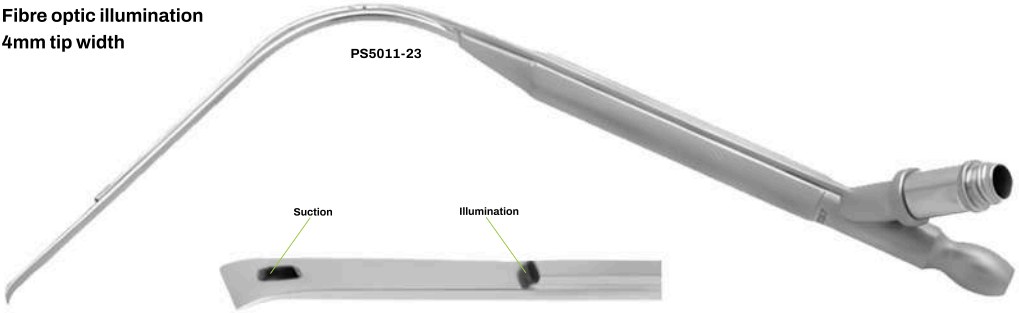


PS5010 -22	Straight
PS5011 -22	25° Angled
PS5012 -22	90° Angled

*illustrated

• Shepperd Suction Nerve Root Retractor

- 26cm/10 1/2”
  With suction aspiration
  Fibre optic illumination
  4mm tip width



• Nerve Root Retractor with suction

- 31cm/12”
  7mm tip width



• Hess Nerve Root Retractor

- 19cm/7 1/2”

PS5003-19 3mm
PS5004-19 4mm
PS5005-19 5mm
PS5007-19 7mm





3mm
4mm
5mm
7mm

Nerve Root Retractor

19cm/7 1/2”
with fiber optic
illumination



PS5033-19 3mm
PS5055-19 5mm

• Love Bayonet Nerve Root Retractor

- 21cm/8 1/4”



• Krayenbuhl Nerve Root Retractor

- Double bayonet
  21cm/8 1/4”



21cm/8 PO-193-11 1/4”

24cm/9 PO-193-12

• O’Connell Nerve Root Retractor

- 21.5cm/8 1/2”



HOOKS AND PROBS

WARSI SURGICAL INDUSTRIES

THE INSTRUMENTS SPECIALIST

• Jacobson Hook

- **Sharp / 2 mm / 90° / 7 1/2˝ (19 cm)**
  413-006S stainless steel
  413-006 titanium



• Rhoton Dissector / Raspatory

- **Semi-sharp / 25° / 7 1/2˝ (19 cm)**
  413-007S 1.5 mm stainless steel
  413-007 1.5 mm titanium
  413-008S 2 mm stainless steel
  413-008 2 mm titanium
  413-009S 1 mm stainless steel
  413-009 1 mm titanium



• Rhoton Hook

- **7 1/2˝ (19 cm)**

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



• Rhoton Pick

- **Semi Sharp / straight / 7 1/2˝ (19 cm)**

413-012S stainless steel
413-012 titanium



• Rhoton Curette

- **1 x 2 mm / 7 1/2˝ (19 cm)**

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



Jacobson Button End Probe

- **Straight / blunt / 1 mm / 7 1/2˝ (19 cm)**
  413-015S stainless steel
  413-015 titanium



Jacobson Hook Probe

- **Angled 45˚ / 1x8 mm long / 7 1/2˝ (19 cm)**
  413-019S stainless steel
  413-019 titanium



• Rhoton Circular Dissector 45°

- **Stainless steel / 7 1/2˝ (19 cm)**

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



• Rhoton Dissector / Raspatory

- **Rhoton Dissector / Raspatory**

7 1/2˝ (19 cm)
413-004S 2.8 mm curved stainless steel
413-004 2.8 mm curved titanium
413-005S 1 mm angled stainless steel
413-005 1 mm angled titanium



• Jacobson 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 stainess steel
413-017 titanium

Blunt / Angled 45° / 1x5 mm long / 7 1/2˝ (19 cm)
413-018S stainless steel
413-018 titanium



• Murphy Ball End Probe

- **8 1/2˝ (22 cm)**

413-030 curved
413-031 straight

10 1/2˝ (25 cm)
413-032 curved
413-033 straight

413-030



413-031



• Murphy Ball End Probe

- **9˝ (23 cm)**

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

413-020



413-021



Adson Hook

- 20cm/8" 5mm tip length
- Sharp - PO-92-10
- Blunt - PO-92-11



PO-92-11



Sharp Blunt

Blalock Blunt Hook

- 24cm/9 1/2"
  5mm tip length



PO-92-12

McCulloch Probe with Ball End

- 23.5cm/9 1/4"



PO-92-13



4mm Tip
PO-92-13

6mm Tip
PO-92-14

Manipulation Hook

- 23.5cm/9 1/4"
- 4mm tip length



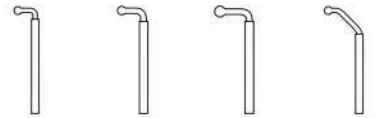
PO-92-15

Caspar Exploration Probe

- 24.5cm/9 3/4"
- Insulated shaft



PO-92-16



PO-92-16 PO-92-17 PO-92-18 PO-92-19

Adson Dural Hook

- 19cm/7 1/2”
- Sharp - PO-92-03
- Blunt - PO-92-04



PO-92-04

Titanium Micro Hooks

- 19cm/7 1/2”



PO-92-05



90˚ Semi-sharp
PO-92-05



90˚ Blunt
PO-92-06

Crile Blunt Hook

- 20cm/8”
- 7mm tip length



PO-92-07

Emmet Sharp Hook

- 22cm/8 3/4”
- 5mm tip length



PO-92-08

Cushing Blunt Hook

- 28cm/11”
- 4mm tip length



PO-92-09

NEURO HOOKS

WARSI SURGICAL INDUSTRIES

THE INSTRUMENTS SPECIALIST

• Culler Neuro Round Handle Hook

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

543-445D

5 mm tip length

543-445B 0.7 mm Ø x 5 mm tip length 4 3/4"

543-445A 1 mm Ø x 5 mm tip length 4 3/4"

543-445CL 1 mm tip Ø 6 1/4"

0.5 mm Ø tip

543-445C 3 mm tip length 4 5/8"

543-445AL 3 mm tip length 6 1/4"

543-445BL 2 mm tip length 6 1/4"

1.0 mm Ø 45° 4 mm tip / 6 1/4"

543-445EL



543-445D



543-445B



543-445A



543-445CL



543-445C



543-445AL



543-445BL



543-445EL

• Frazier Dorsey Dura Separator

- **Angled / 5 x 15 mm blades / 6˝ (15.2 cm)**

JY2-488



JY2-488

• Pig Tail Neuro Hook Probe

- **With ball tip / 6 7/8˝ (17.5 cm)**

JY2-444 spirals right
JY2-444L spirals left
JY2-444KR spirals right 90˚ angle up
JY2-444KL spirals left 90˚ angle up

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

JY2-444T spirals right
JY2-444LT spirals left



JY2-444



JY2-444L



JY2-444KR



JY2-444KL



JY2-444T

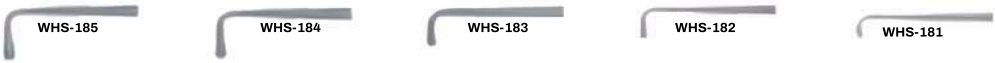


JY2-444LT

Wagner Hook

- 5 1/2˝ (14 cm)
  WHS-181 size 1
  WHS-182 size 2
  WHS-183 size 3
  WHS-184 size 4
  WHS-185 size 5





Nerve Hook Titanium

- Bayonet / ball Tip (0.5mm) / 9 1/4˝ (23.5 cm)
  WHS-618T



Cushing Dura Hook

- 6 1/2˝ (16 cm)
  WHS-414



Cloward Dura Hook

- 6 1/2˝ (16 cm)
  WHS-415



• Bryant Mitral Hook Retractor

- **10 3/4˝ (26.5 cm)**
  9800-313 3 semi-sharp prongs
  9800-313T 3 semi-sharp prongs
  9800-315 2 semi-sharp prongs
  9800-315T 2 semi-sharp prongs
  9800-320 1 semi-sharp prong
  9800-320T 1 semi-sharp prong



9800-313



9800-313T



9800-3135



9800-315T



9800-320



9800-330T

• Dandy Nerve Hook

- 9˝ (23 cm)
  WHS1-438 straight shaft
  WHS1-440 angled left shaft
  WHS1-442 angled right shaft



• Bayonet Nerve Hook Titanium

- Backward facing 0.9mm Ø tip / 20 mm working length / 12 1/4" (31 cm)
  WHS12-644T



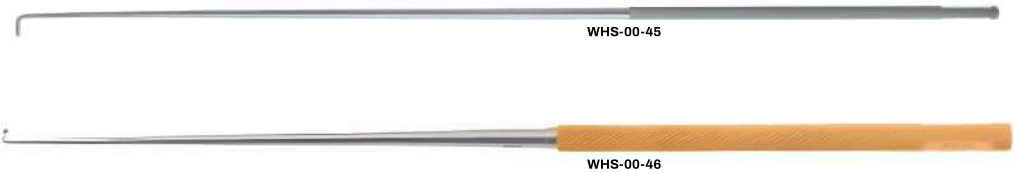
• Lucae Ear Hook

- Fine / indent ball end / 6˝ (15 cm)
  WHS77-123 2.0 mm
  WHS77-124 2.5 mm
  WHS77-125 3.0 mm
  WHS77-126 4.0 mm



• Heartline Nerve & Vessel Hook

- **3.2 mm tip with graduation marks / 12" (30.5 cm)**
  WHS-00-45
  1.5 mm ball tip / 10" (25 cm)
  WHS-00-46



• Carpentier Vascular Hook Titanium

- **9 1/2˝ (24 cm)**
  WHS-00-47 45° angle
  WHS-00-48 90° angle
  WHS-00-49 125° angle



• Bayonet Nerve Hook

- **150 mm / 10 3/4˝ (27 cm)**
  WHS-00-49B



• Bayonet Nerve Hook

- **150 mm / 10 3/4˝ (27 cm)**
  WHS-00-146
  WHS-00-146G



• Doolen Neuro Hook

- **1 mm ball tip / 90° / 8" (20.5 cm)**

WHS78-13 2 mm from angle
WHS78-14 3 mm from angle



• Krayenbuehl Nerve Hook

- **90° / 7 1/4˝ (18.5 cm)**

WHS-78-14A 2 mm tip length
WHS-78-15 2 mm tip length 1 mm ball tip
WHS-78-16 3 mm tip length
WHS-78-17 3 mm tip length 1 mm ball tip



• Krayenbuehl Nerve Hook Extra Long Version

- **Round Handle / special long model / 11˝ (27.9 cm)**

WHS-78-18 2 mm tip length
WHS-78-19 2 mm tip length 1 mm ball tip
WHS-78-19B 3 mm tip length
WHS-78-19A 3 mm tip length 1 mm ball tip



• Tufts Pigtail Neuro Hook Probe

- **With ball tip / twist right / large / 6 1/2˝ (16.5 cm)**

WHS-78-14C



• Sontec Nerve Hook Titanium

- **Titanium / 3 mm tip length / 1 mm ball Tip**
  270-44A 7 1/8" (18 cm) 5 mm hook with 1 mm ball tip
  270-430 8" (20 cm) 3 mm hook with 1 mm ball tip



• Nerve & Vessel Hook

- **10˝ (25.5 cm)**
  270-4500 titanium 3.5 mm tip with graduation marks
  270-4501 titanium 1.5 mm ball tip









• Krayenbuehl Nerve Hook Titanium

- **90° / 7 1/4˝ (18.5 cm)**
  400-561T 3 mm probe 1 mm ball tip small
  400-662T 3.8 mm probe 1 mm ball tip large
  400-563T 2.5 mm probe without ball tip small
  400-364T 4.0 mm probe without ball tip large









Graham Dura Hook

- 6 1/2˝ (16 cm)
  NH076-655



NH076-655

Micro Hook Titanium

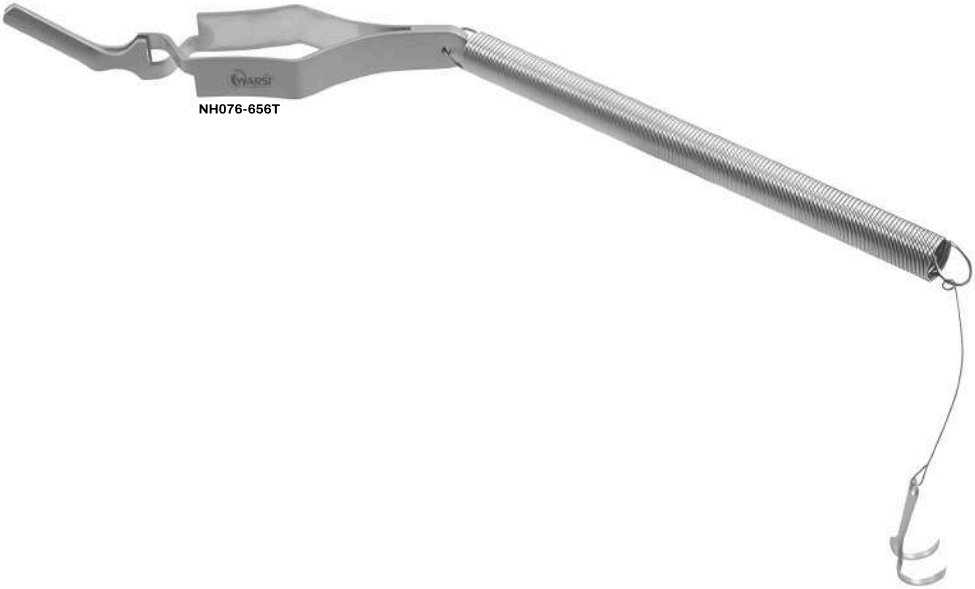
- 90º graduation (1 mm) / 7 1/2˝ (19 cm)
  NH076-653



NH076-653

Yasargil Galea Spring Neuro Hook

- Double sharp prong hook / bulldog clamp / spring body / 310 mm
  NH076-656T



NH076-656T

• Culler Neuro Round Handle Hook Titanium

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

412-445DT

5 mm tip length

412-445BT 0.7 mm tip Ø 4 3/4"

412-445AT 1 mm tip Ø 4 3/4"

412-445CLT 1 mm tip Ø 6 1/4"

0.5 mm Ø tip

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

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

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

1.0 mm Ø 45° 4 mm tip / 6 1/4”

412-445ELT



412-445DT



412-445BT



412-445AT



412-445CLT



412-445CT



412-445ALT



412-445BLT



412-445ELT

SUCTION SELECTION

WARSI SURGICAL INDUSTRIES

THE INSTRUMENTS SPECIALIST

General Suction Information

French measurement scale for determining suction tube diameter

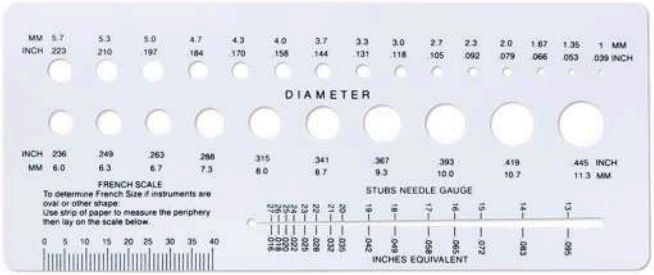
Diameter

French	3	4	5	6	7	8	9
MM	1	1.36	1.67	2.0	2.3	2.7	3.0
Inches	.039	.063	.068	.079	.092	.105	.118

10	11	12	13	14	15
3.3	3.7	4.0	4.3	4.7	5.0
.131	.144	.158	.170	.184	.197

16	17	18	19	20	21
5.3	5.7	6.0	6.3	6.7	7.3
.210	.223	.236	.249	.263	.288

24	26	28	30	32	34
8.0	8.7	9.3	10.0	10.7	11.3
.315	.341	.367	.393	.419	.445



• Frazier Angled Suction

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

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

9˝ (23 cm)
ST-12-705 10 french



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

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



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

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



• Frazier Straight Suction

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

ST-2-689 5 french
ST-2-690 6 french
ST-2-691 7 french
ST-2-692 8 french
ST-2-694 10 french
ST-2-696 12 french

9˝ (23 cm)

ST-2-700 6 french
ST-2-701 7 french
ST-2-702 8 french
ST-2-704 10 french
ST-2-706 12 french



ST-2-690



ST-2-692



ST-2-701

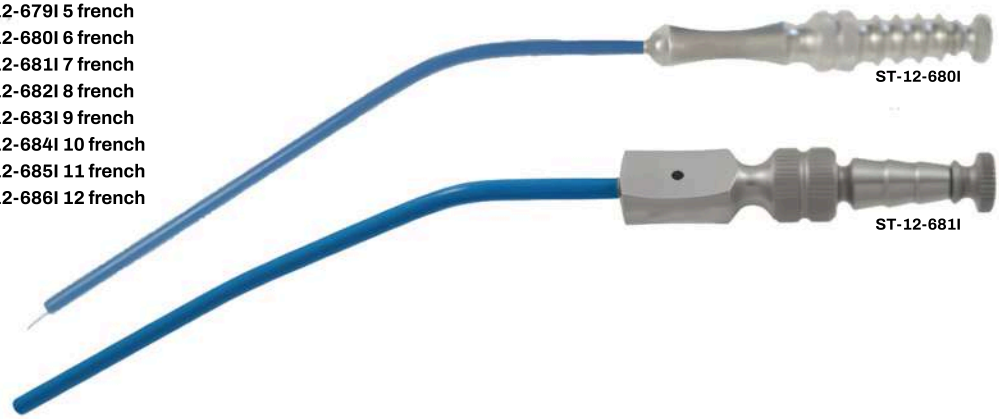


ST-2-706

• Frazier Insulated Suction

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

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



• Frazier-Rhoton Angled Suction

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

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



• Fukushima Suction

• Tapered tube shaft / teardrop finger control / 7˝ (18 cm)

ST-80-403 3 fr
ST-80-404 4 fr
ST-80-405 5 fr
ST-80-406 6 fr
ST-80-407 7 fr
ST-80-408 8 fr
ST-80-409 9 fr
ST-80-410 10 fr
ST-80-411 11 fr
ST-80-412 12 fr

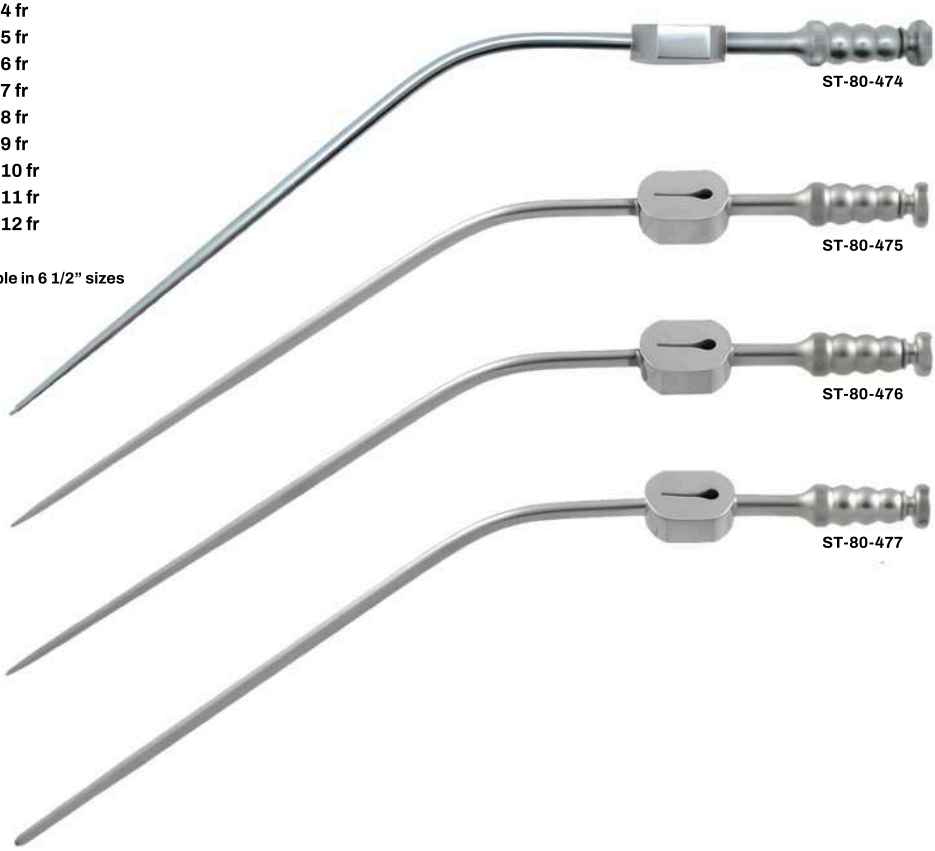


ST-80-405

Tapered tube shaft / teardrop finger control / 8˝ (20.5 cm)

ST-80-373 3 fr
ST-80-374 4 fr
ST-80-375 5 fr
ST-80-376 6 fr
ST-80-377 7 fr
ST-80-378 8 fr
ST-80-379 9 fr
ST-80-380 10 fr
ST-80-381 11 fr
ST-80-382 12 fr

*** Also available in 6 1/2" sizes**



ST-80-474

ST-80-475

ST-80-476

ST-80-477

• Rhoton Micro Neuro Suction

• **Specially blunted atramatic tips / 80 mm working length**

ST-12-839 3 french
ST-12-840 5 french
ST-12-844 7 french
ST-12-841 10 french

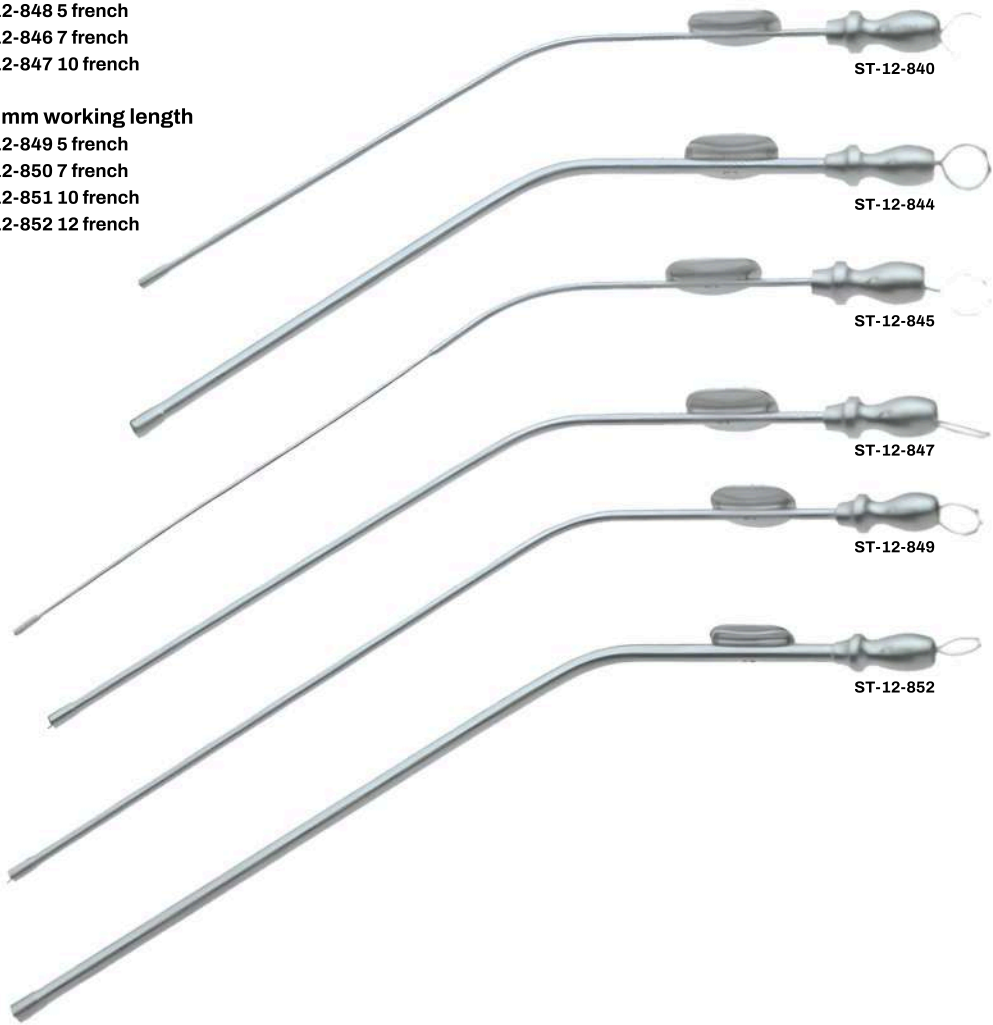
100 mm working length

ST-12-845 3 french
ST-12-848 5 french
ST-12-846 7 french
ST-12-847 10 french

130 mm working length

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

3 french 5 french 7 french 10 french 12 french

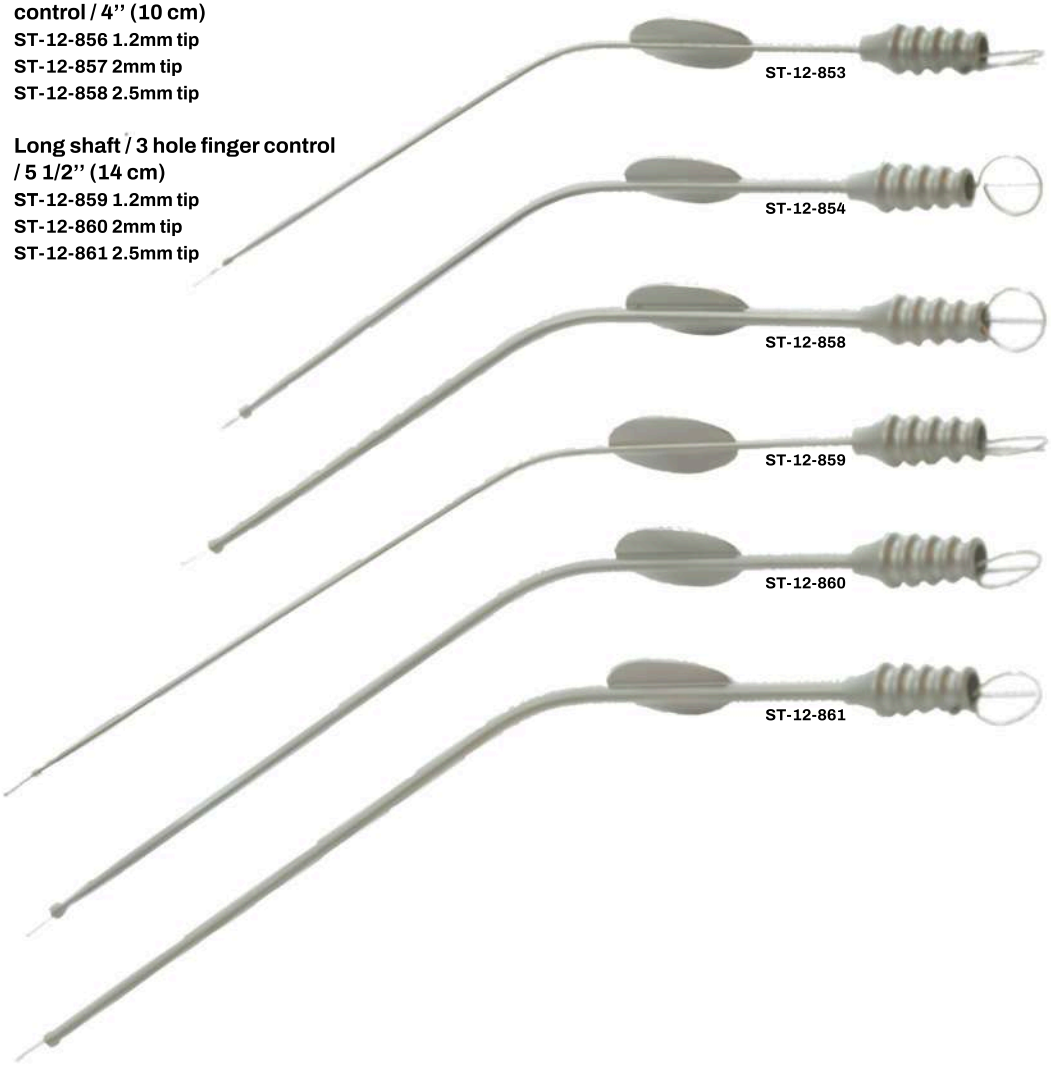


• Sontec Neuro Suction

- **tapered tubing for increased flow / short shaft / 3 hole finger control / 2 3/4'' (7 cm)**
  - **ST-12-853 1.2mm tip**
  - **ST-12-854 2mm tip**
  - **ST-12-855 2.5mm tip**

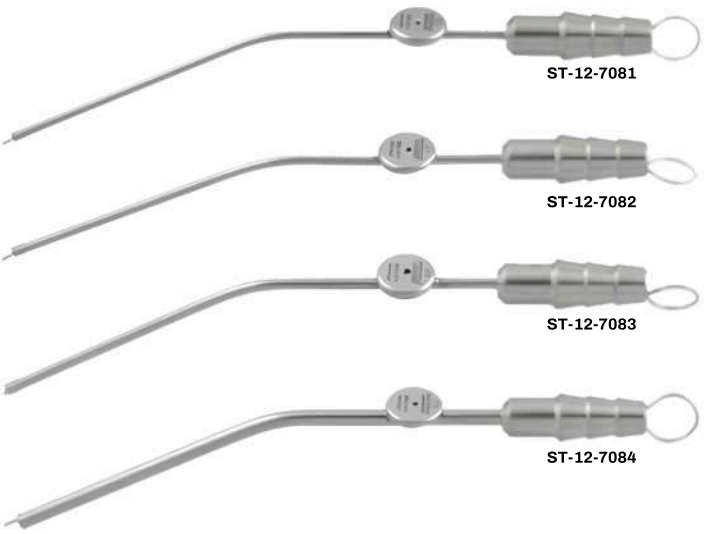
Medium shaft / 3 hole finger control / 4'' (10 cm)
- **ST-12-856 1.2mm tip**
- **ST-12-857 2mm tip**
- **ST-12-858 2.5mm tip**

Long shaft / 3 hole finger control / 5 1/2'' (14 cm)
- **ST-12-859 1.2mm tip**
- **ST-12-860 2mm tip**
- **ST-12-861 2.5mm tip**



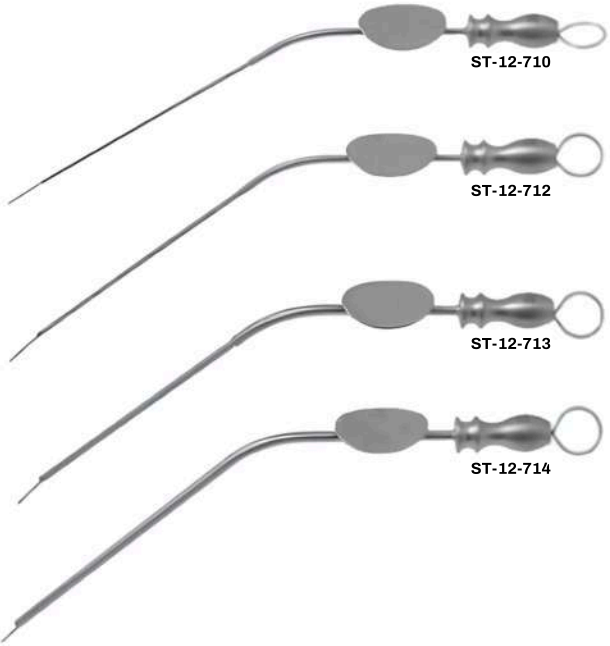
• Barnes Mini Suction Tube

- **ST-12-7081 1.5 mm tip**
  ST-12-7082 1.7 mm tip
  ST-12-7083 2 mm tip
  ST-12-7084 3 mm tip



• Baron Suction

- **Finger cut-off hole to control suction / angled / 4˝ (10 cm)**
  ST-12-710 3 french
  ST-12-712 4 french
  ST-12-713 5 french
  ST-12-714 7 french



• Pashley-Frazier Suction

• **Curved tip / 7˝ (18 cm)**

ST-63-501	7 french	curved right
ST-63-500	7 french	curved left
ST-63-503	8 french	curved right
ST-63-504	8 french	curved left
ST-63-506	9 french	curved right
ST-63-507	9 french	curved left



ST-63-503

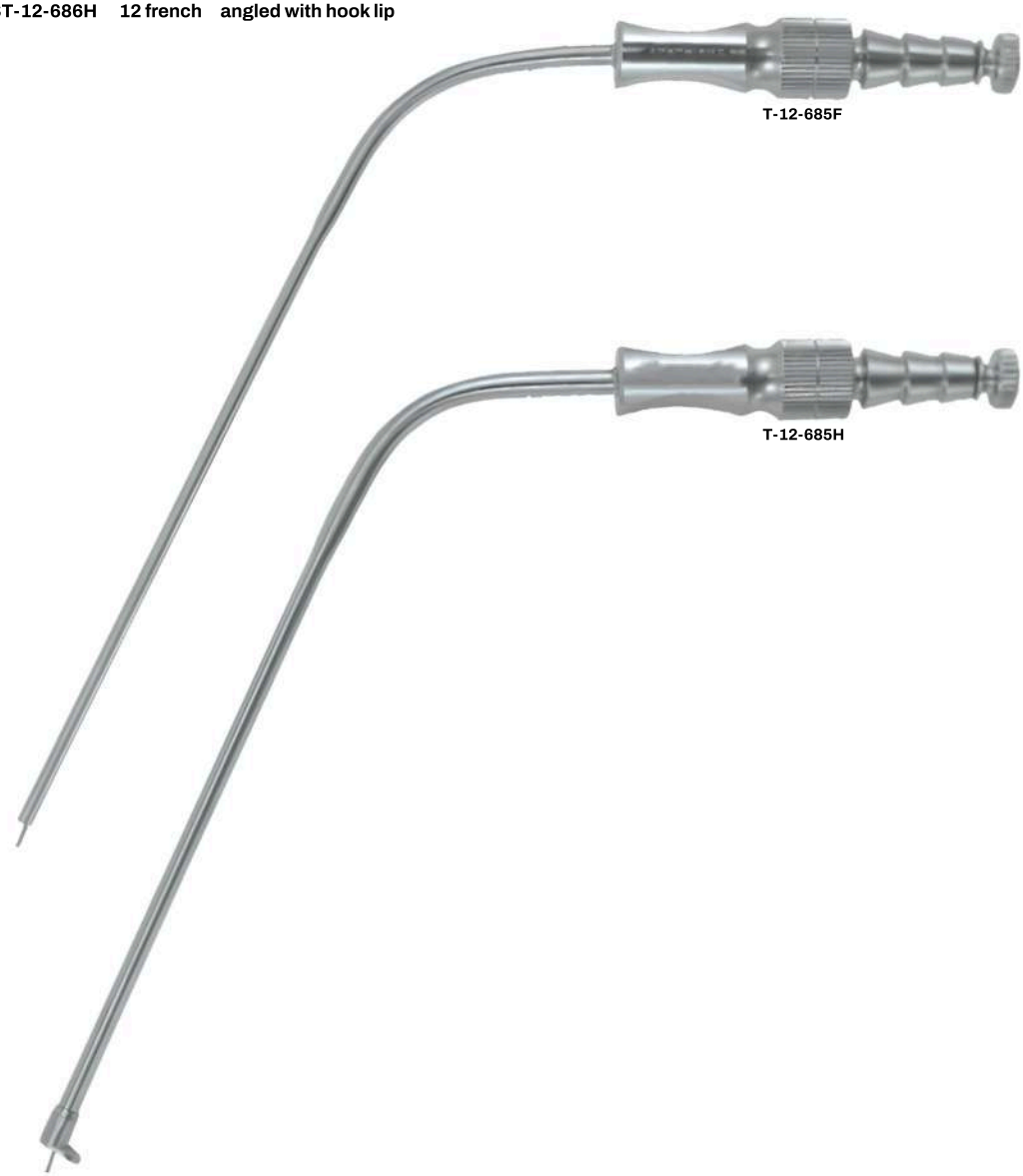


ST-63-500

• Modified Ferguson-Frazier Suction

- **Fenestrated oval tip**

ST-12-685F	**11 french**	**angled**
ST-12-686H	**12 french**	**angled with hook lip**



T-12-685F

T-12-685H

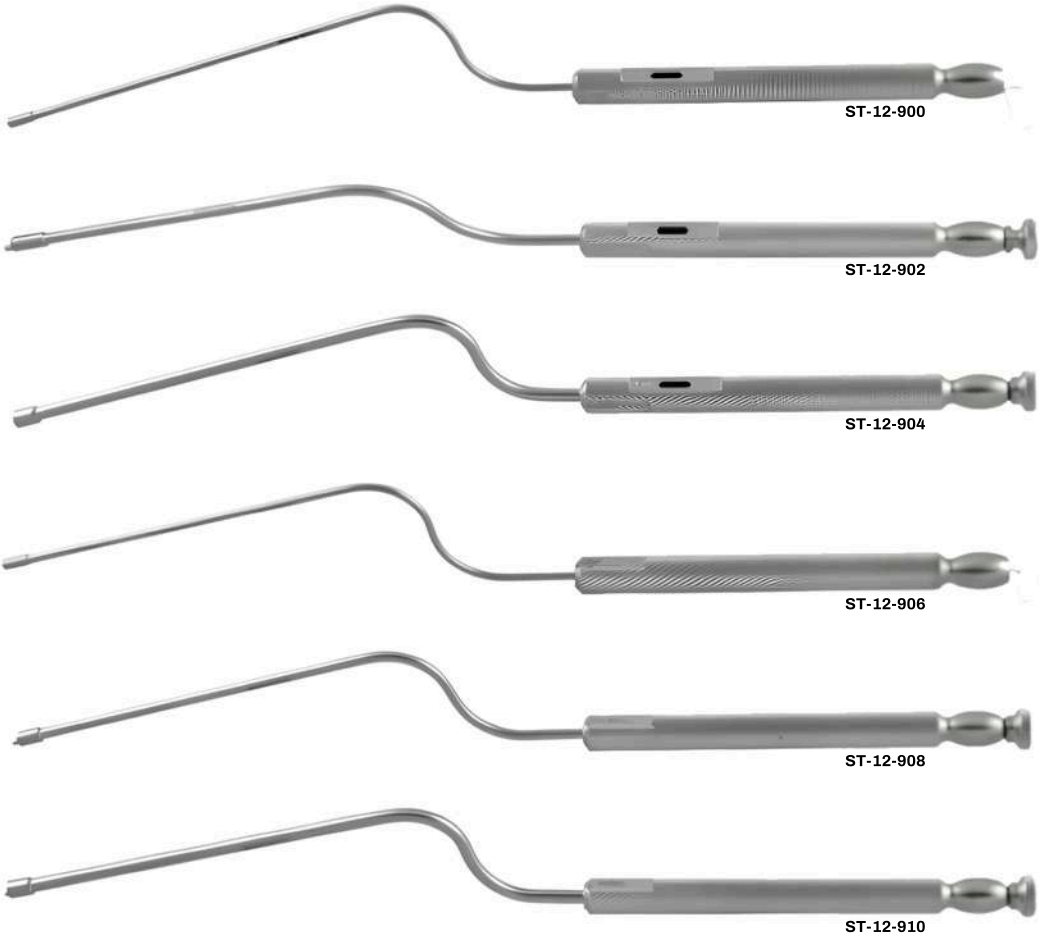
• Bayonet Suction Tube

• **Top finger control / 3 3/8" working length**

ST-12-900 5 french
ST-12-902 7 french
ST-12-904 9 french

Right finger control / 3 3/8” working length

ST-12-906 5 french
ST-12-908 7 french
ST-12-910 9 french

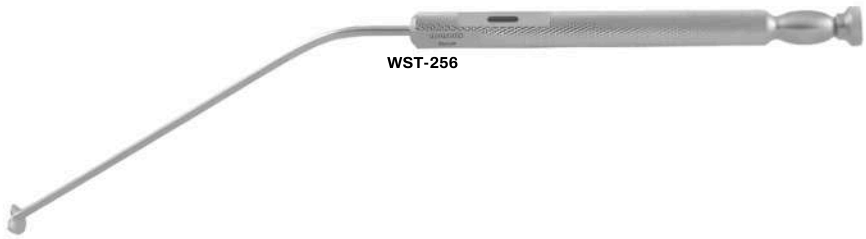


• Suction Nerve Retractor

- **7 french / 8" (20.3 cm)**
  WST-256 6 mm
  WST-257 7 mm
  WST-258 8 mm



WST-257



WST-256

• Papavero Cannula Suction

- **Papavero Cannula Suction**
  Angled / 7˝ (18 cm)
  WST-671 8 french

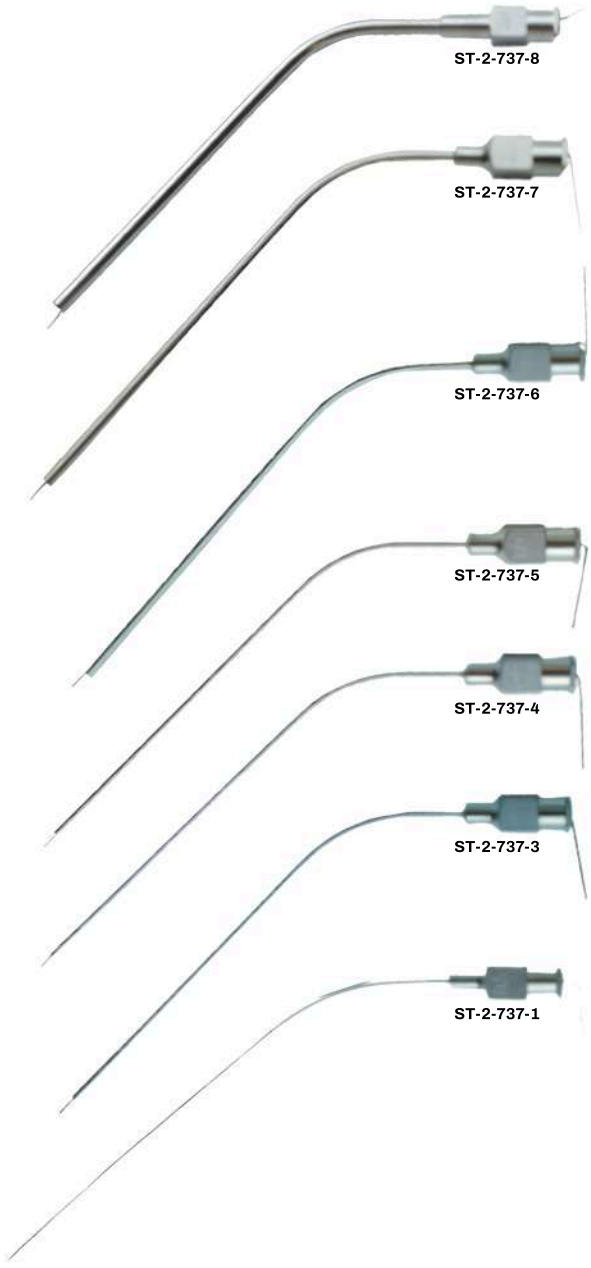


WST-671

• Rosen Suction Tips

- **Luer LK Angle / overall length 100mm / 65 mm working length**

ST-2-737-1 11 gauge
ST-2-737-3 13 gauge
ST-2-737-4 14 gauge
ST-2-737-5 15 gauge
ST-2-737-6 16 gauge
ST-2-737-7 17 gauge
ST-2-737-8 18 gauge
ST-2-737-19 19 gauge
ST-2-737-20 20 gauge
ST-2-737-21 21 gauge
ST-2-737-22 22 gauge
ST-2-737-24 24 gauge
ST-2-737-25 25 gauge
ST-2-737-26 26 gauge



• Wullstein Ear Suction Tube

- **7" working lenght / 9 1/4" overall length**

WST-2-78-11 11 FR O.D. x 8 FR I.D.
WST-38-12 12 FR O.D. x 9 FR I.D.
WST-8-13 13 FR O.D. x 10 FR I.D.



• House Cutoff Suction Adapter

- **2˝ (5 cm)**

WST-2-73-5
Universal handles are necessary for Rosen and Schmidt Suction tubes



• Kurtz Cutt-Off Suction Adapter

- **2.2˝ (5.5 cm)**

WST-78-55 chrome plated
WST-78-55S stainless steel
Universal handles are necessary for Rosen and Schmidt Suction tubes



• Wullstein Suction Handle

- **4 1/4˝ (11 cm)**

WST-2-78 male luer coupling 3mm
Universal handles are necessary for Rosen and Schmidt Suction tubes



• Schmid Suction Tips

- 6˝ (15 cm)
  WC-12-36-1
  WC-12-36-2
  WC-12-36-3
  WC-12-36-4



WC-12-36-1

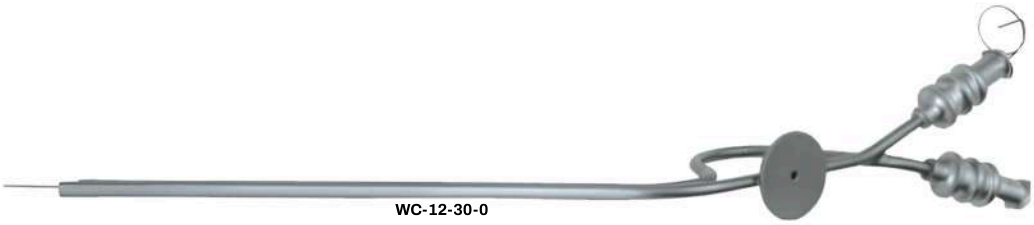
WC-12-36-2

WC-12-36-3

WC-12-36-4

• Suction Irrigation Tube

- 5 mm / with stylet / 8˝ (20 cm)
  WC-12-30-0 4 french x 8 french



WC-12-30-0

• House Irrigator/Suction

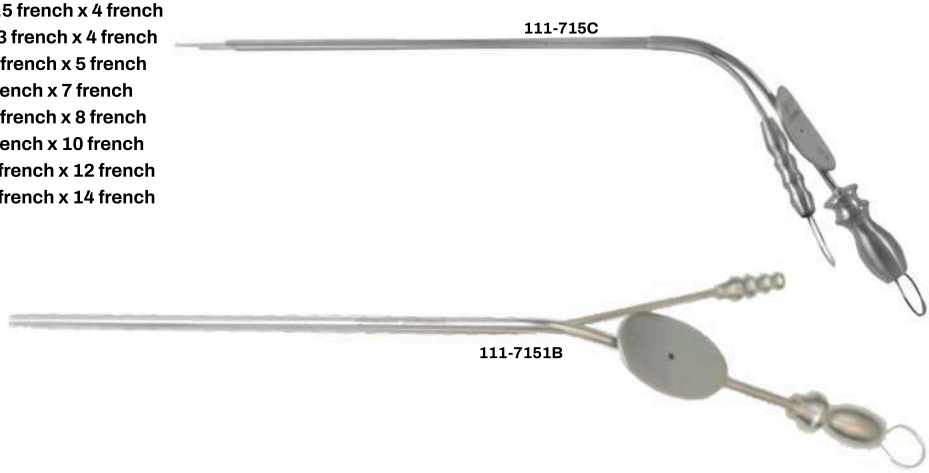
- **With thumb plate and cutoff (bypass hole) / 70mm working length / 4 1/2'' (11.5 cm)**

111-715A 2.5 french x 4 french
111-715C 4 french x 5 french

85mm working lenght / 5'' (13 cm)
111-715 2 french x 2.5 french

95mm working length / 5 1/2'' (14cm)

111-715B 2.5 french x 4 french
111-7151B 3 french x 4 french
111-715D 4 french x 5 french
111-716 5 french x 7 french
111-716A 6 french x 8 french
111-717 7 french x 10 french
1111-718 8 french x 12 french
111-719 12 french x 14 french



• House-Baron Suction

- **With multi port / 5˝ (12.5 cm)**

223-728 5 french
223-728B 7 french

7˝ (18 cm)
223-729 5 french
223-729B 7 french

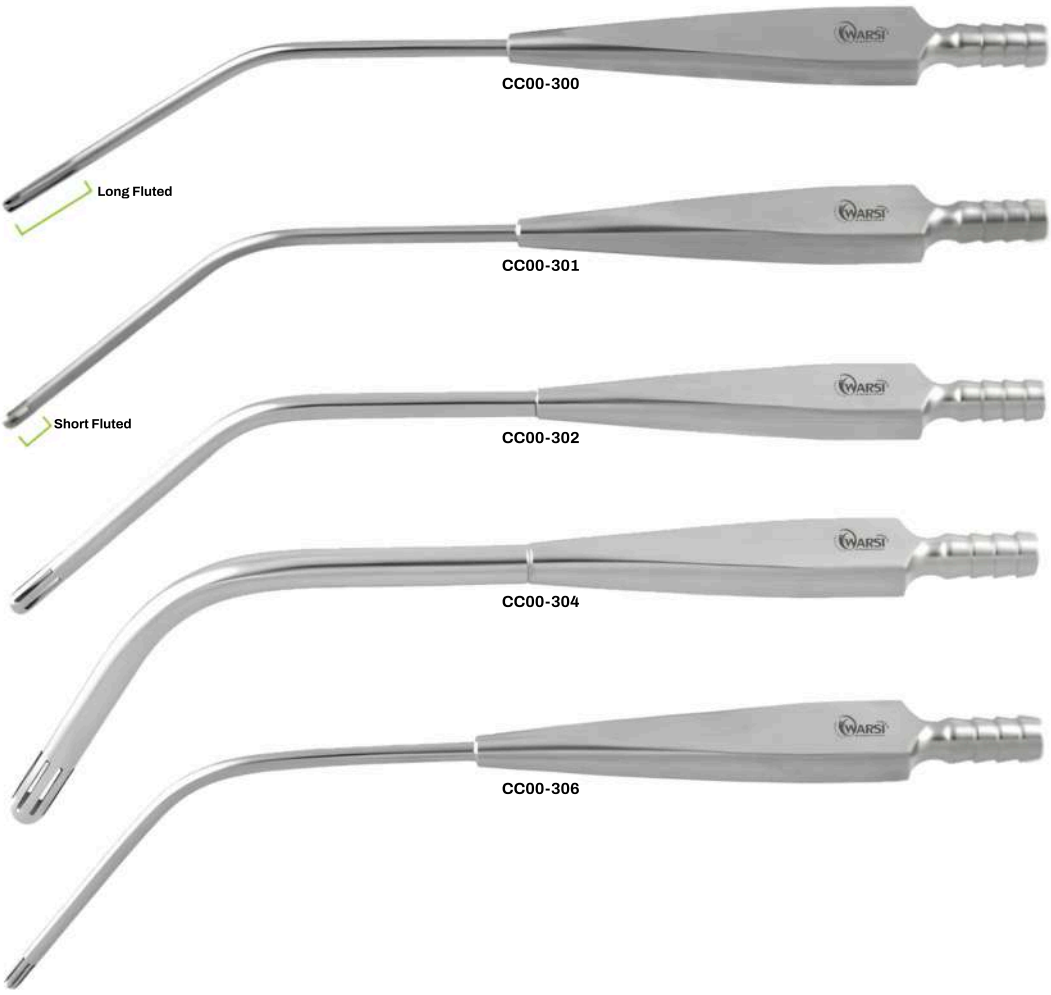
11˝ (28 cm)
223-727A 5 french
223-727B 7 french



• Sontec Micro Pediatric Suction

- **For pediatric Use**

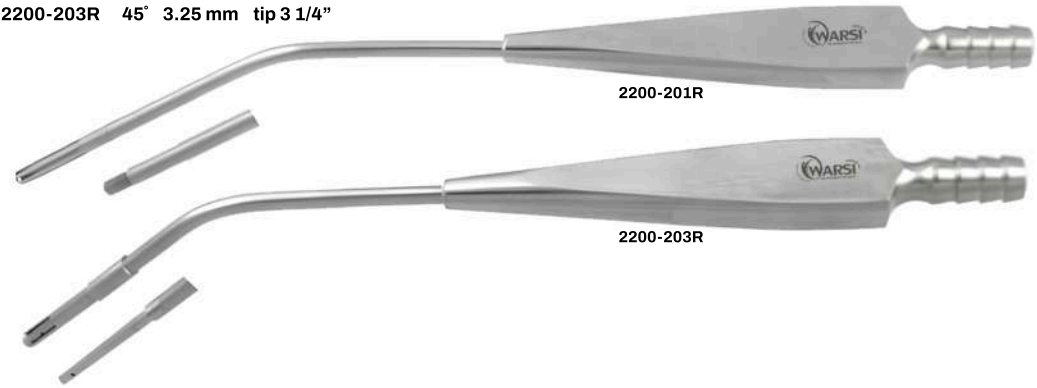
CC00-300 40˚ 3.25 mm long fluted tip 4 1/4"
CC00-301 45˚ 3.25 mm fluted tip 4 3/4"
CC00-302 40˚ 5 mm fluted tip 4 3/4"
CC00-304 55˚ 7 mm fluted tip 4 3/4"
CC00-306 50˚ 3.25 mm fluted tip 4 1/4"



• Sontec Micro Pediatric Suction

- **For pediatric use / removable fluted tip**

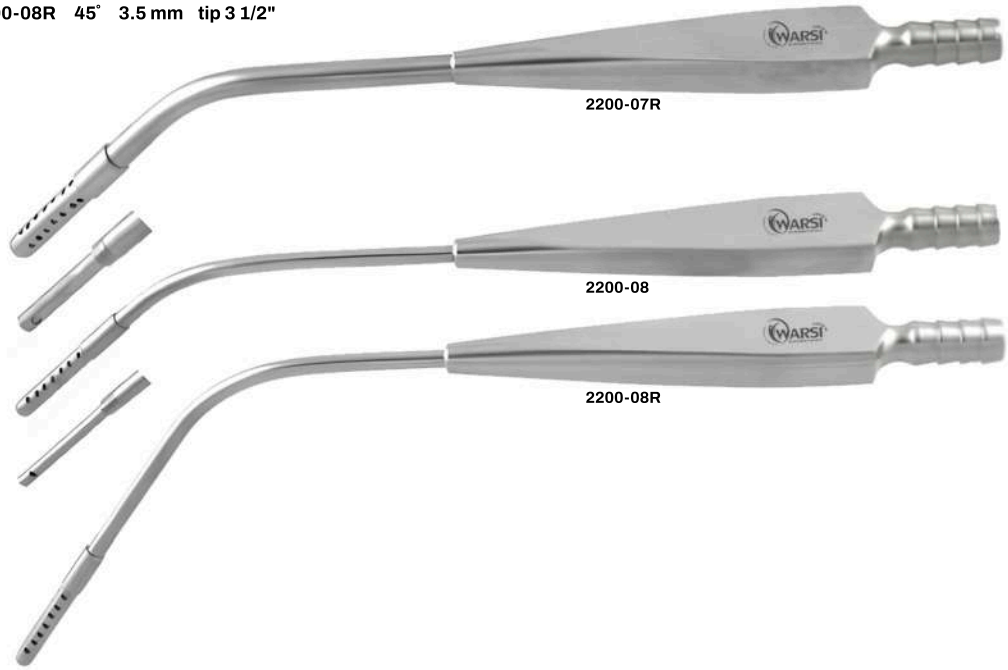
2200-201R 45° 3.25 mm tip 4 3/4"
2200-203R 45° 3.25 mm tip 3 1/4"



• Sontec Micro Pediatric Suction

- **For pediatric use / removable fenestrated tip**

2200-07R 45° 5 mm tip 3 3/4"
2200-08 55° 3.5 mm tip 3 3/4"
2200-08R 45° 3.5 mm tip 3 1/2"



• Andrews Pynchon Suction

- **Stainless / 9 1/2˝ (24 cm)**
  10-432 3.0 mm
  10-433 4.2 mm
  10-436 5.0 mm standard
  Chrome handle / standard 5 mm / 9 1/2˝ (24 cm)
  10-439



10-439

• Anthony Suction

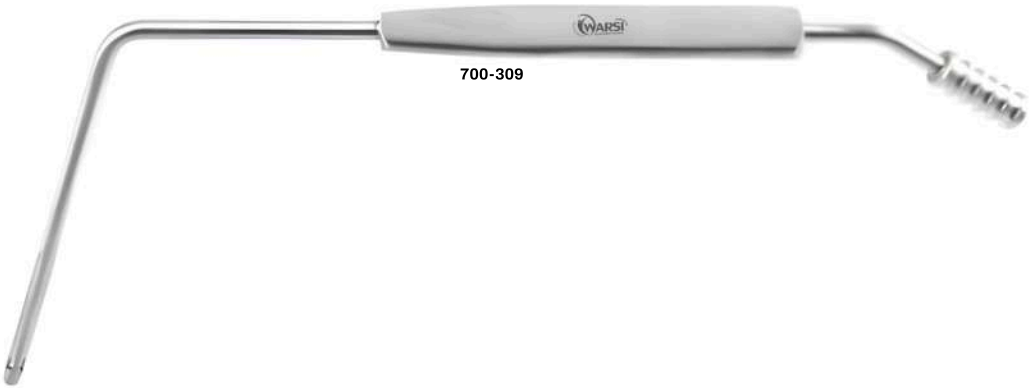
- **4 mm tip / 10˝ (25.5 cm)**
  10-440



10-440

• Braun-Ralph Suction

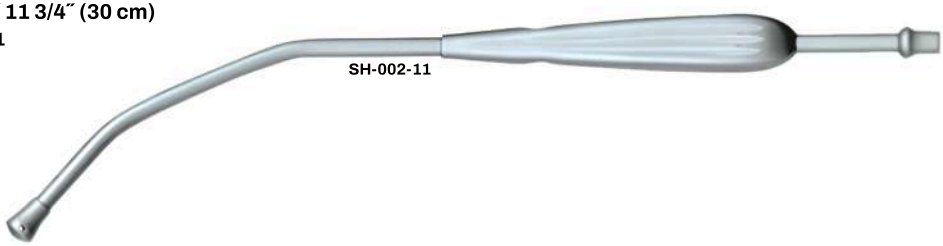
- **5mm suction tube / 70° angle with 7 mm Ø 40 mm long fluted tip / 10˝ (25.5 cm)**
  700-309



700-309

• Yankauer Suction

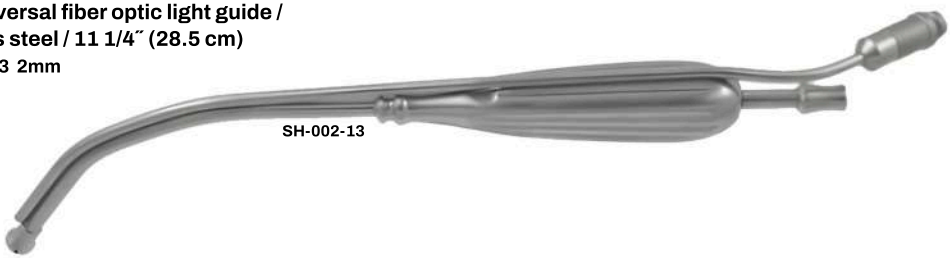
• **Chrome / 11 3/4˝ (30 cm)**
SH-002-11



Stainless Steel / 11 3/4˝ (30 cm)
SH-002-12

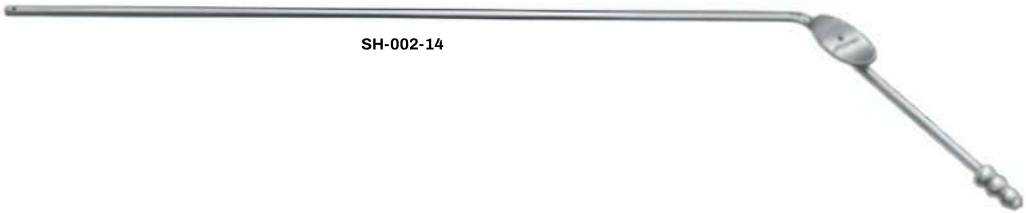


With universal fiber optic light guide / stainless steel / 11 1/4˝ (28.5 cm)
SH-002-13 2mm



• Buie Suction Tube

• **With finger valve / 16˝ (40.5 cm)**
SH-002-14 15 french



• Ross Sump Suckers

- **Swivel head**

WCR-001-2 adult 3/16" tube
WCR-001-2A child 3/16" tube
WCR-001-2B infant 1/8" tube


WCR-001-2


WCR-001-2


WCR-001-2

• Baby Poole Suction

- **Curved / 17 french / 8" (20.3 cm)**

WCR-001-2C


WCR-001-2C

• Poole Suction

- **8 3/4˝(22 cm)**

WCR-001-2E cvd 23 french
WCR-001-2F str 30 french


WCR-001-2E


WCR-001-2F


WCR-001-2R

• Adson Suction

- **Curved tip**

WCR-001-2R 12 french 5˝ (12.5 cm)
WCR-001-2T 4 12 french 8˝ (20 cm)


WCR-001-2T

• Killian (Von Eicken) Suction

- **Curved / 6˝ (15 cm)**

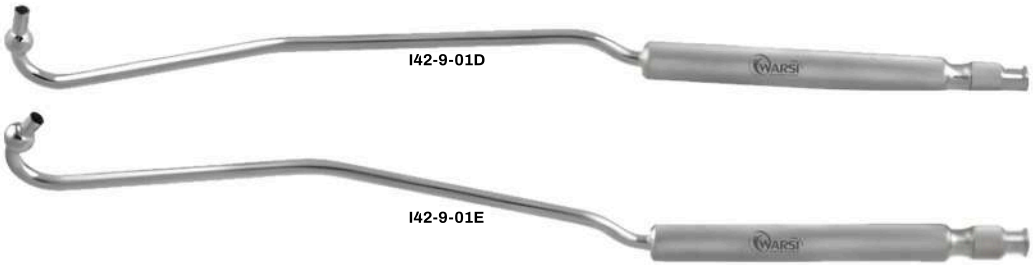
I42-9-01	4 mm end	short curve
I42-9-02	4 mm end	full long curve
I42-9-03	3 mm end	short curve
I42-9-04	3 mm end	long curve



• Sontec Perfusion Cannula Suction

- **For pediatric Use**

I42-9-01D	style #1
I42-9-01E	style #2



• Coupland Suction Set

- **6 1/2˝ (16.5 cm)**

342-S72-SET

set includes:

WN9022-1 tip #1 1.5 mm wide
WN9022-2 tip #2 2.0 mm wide
WN9022-3 tip #3 2.5 mm wide
WN9022-4 tip #4 3.5 mm wide
WN9022-1H handle



WN9022-1H

Handle Only



342-S72

Complete With Handle And One Tip



WN9022-4

WN9022-3

WN9022-2

WN9022-1

- **Pashley Pipe Suction Tube Holding Device**
- **WE163-461**



WE163-461

ELEVATOR & GOUGES

WARSI SURGICAL INDUSTRIES

THE INSTRUMENTS SPECIALIST

• Cervical Bone Graft Impactor 90° O□set

- 22cm/8 1/2”



NS-122-09C



6mm x 12mm Tip

NS-122-09C



3.5mm x 6mm Tip

NS-122-10C

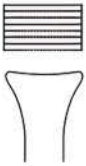
18cm length

• Lumbar Bone Graft Impactor

- 22cm/8 1/2”

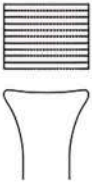


NS-122-12C



7mm x 12mm

NS-122-11C



10mm x 13mm

NC-122-12C

• Anterior Bone Graft Impactor

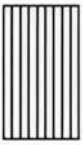
- 34cm/13 1/2”



NS-122-13C

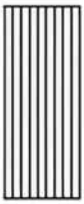
9 x 16mm Tip

NS-122-13C



9 x 23mm Tip

NS-122-14C



• Cobb Spinal Elevator

- 31cm/12 1/4" overall length
  18cm/7" handle length



NS-122-15C



• Harrington Cobb Spinal Elevator

- 30.5cm/12" overall lenth



NS-122-19C

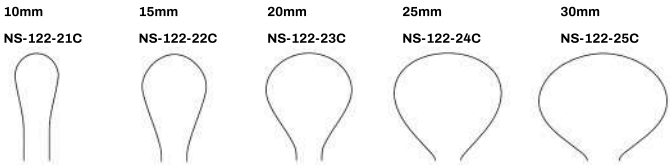


• Cobb Spinal Elevator Extra Long Handle

- 34cm/13 1/2" overall lenth
  22cm/8 3/4" handle length



NS-122-23C

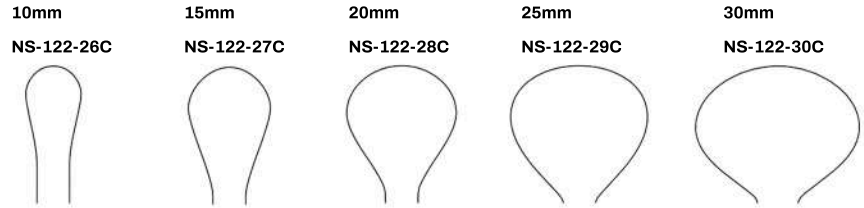


• Comfort Cobb Elevator

- 32cm/12 1/2" overall length
- 20cm/8" handle length



NS-122-29C

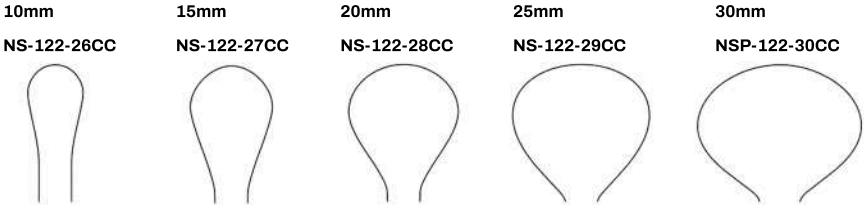


• Long Anterior Comfort Cobb Elevator

- 47cm/18 1/2"



NS-122-26CC



NERVE RETRACTOR

• Scoville Nerve Root Retractor

- **5” from bend / 10.5” (27 cm) / 8 mm**
  KC412-553A straight
  KC412-563B 45°
  KC412-573C 90°
  KC412-583D bayonet

  *** 3 & 5 available on request**

  7” from bend / 8 mm longer / 9” (23 cm)
  KC412-600A 45°
  KC412-610B 90°
  KC412-601C full curved

  *** 3 & 5 available on request**



• Warsi-Love Nerve Root Retractor

- Knurled round handle

412-KK3 str 9.25" (23.5 cm)
412-KK2 45°
412-KK1 90°



• Hess Nerve Retractor

- **KH-620 45° 3mm**
  KH-621 90° 3mm
  KH-622 45° 5mm
  KH-623 90° 5mm

Long shaft

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



• Lighted Smith Nerve Retractor

- **7/1 mm / 5" working length / 10 3/4" (27.3 cm)**
  LE2-723



• Wide Scoville Nerve Root Retractor

- **Phenolic handle / 9" (23cm)**
  LE2-645A 10 mm
  LE3-645B 12 mm
  LE4-645C 14 mm
  12 mm & 14mm have limited availability



• Suction Nerve Retractor

- **5” working length**
  LE00-721 4/2 mm 10 3/4˝ (27 cm)
  LE00-722 7/3 mm 10 3/4˝ (27 cm)



• Suction Nerve Retractor

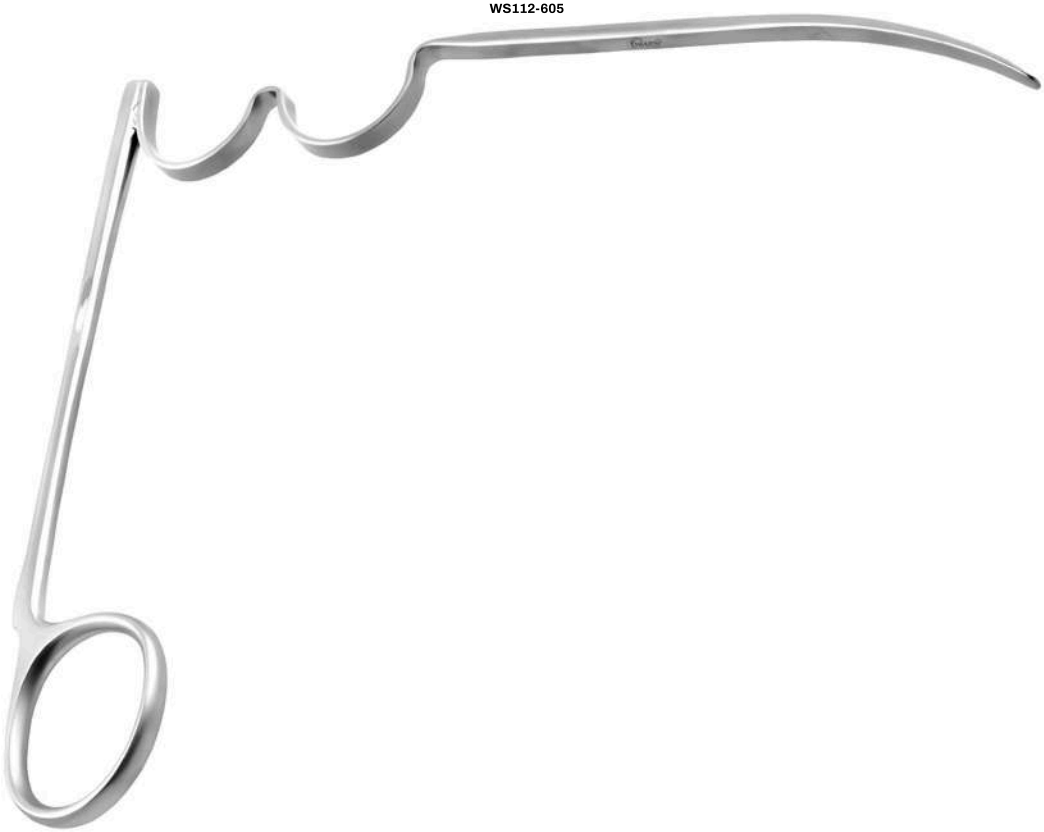
- **7 french / 8" (20.3 cm)**
  LE00-756 6 mm
  LE00-757 7 mm
  LE00-758 8 mm



Love Nerve Root Retractor

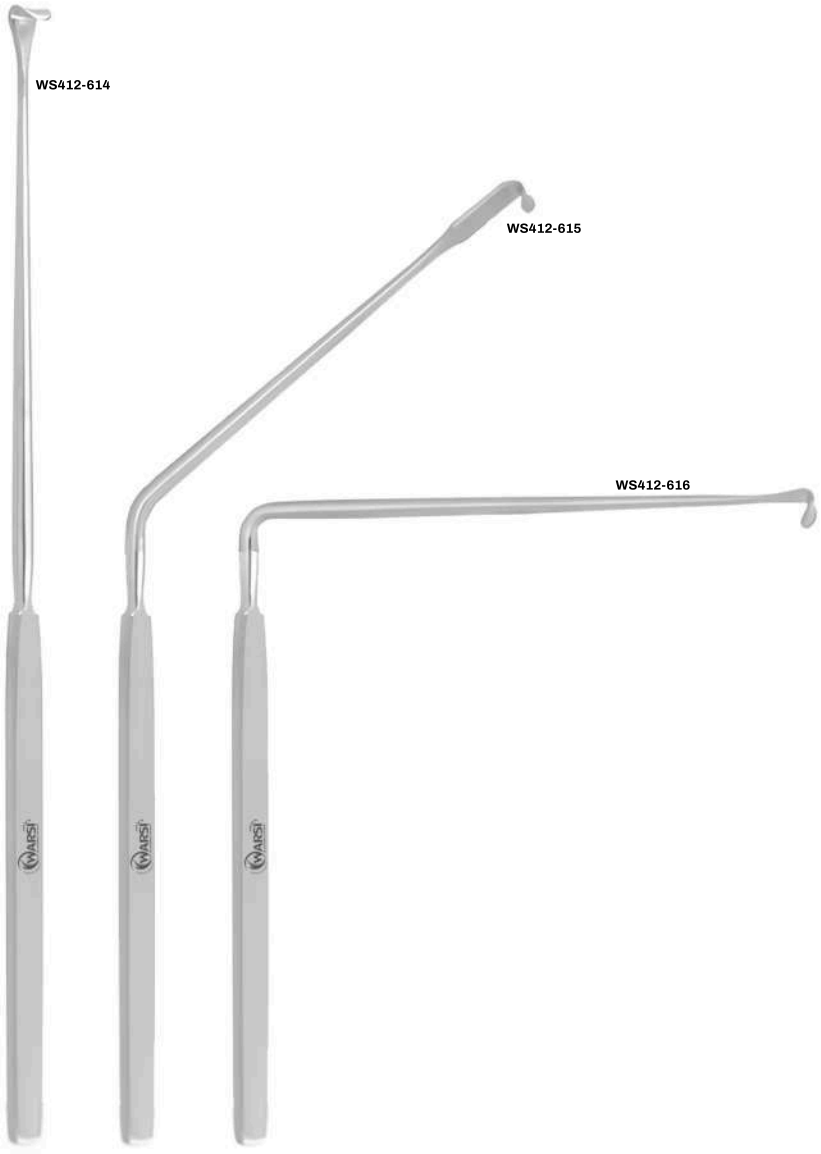
- **Ergonomic ring handle / 90 degree / double loop curved blade 5x40 mm**
  WS112-605 7" (17.8 cm)

WS112-605



• Love Nerve Root Retractor

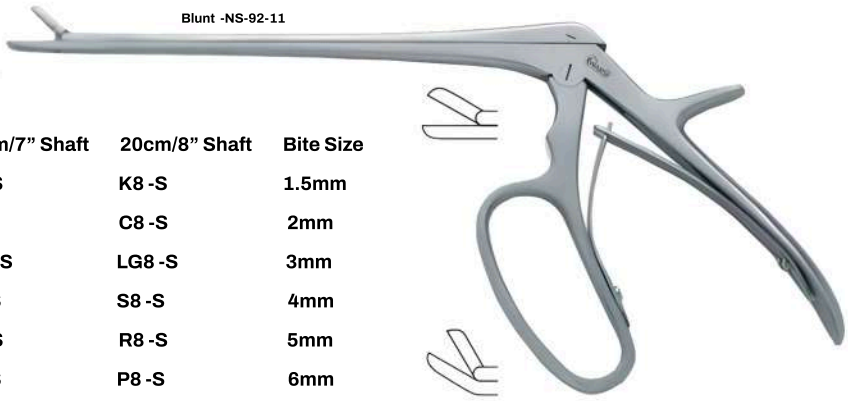
- **Classic model / flat handle**
  WS412-614 str
  WS412-615 45°
  WS412-616 90°



MISC INSTRUMENTS

• Ferris-Smith Disc Rongeur

- Ring handle
  Straight Jaw



15cm/6" Shaft	18cm/7" Shaft	20cm/8" Shaft	Bite Size
K6 -S	K7-S	K8 -S	1.5mm
C6 -S	C7-S	C8 -S	2mm
LG6 -S	LG7-S	LG8 -S	3mm
S6 -S	S7-S	S8 -S	4mm
R6 -S	R7-S	R8 -S	5mm
P6 -S	P7-S	P8 -S	6mm
Q6 -S	Q7-S	Q8 -S	7mm

• Intervertebral Disc Rongeur

- 40° ANGLED DOWNWARD JAW



15cm/6" Shaft	18cm/7" Shaft	20cm/8" Shaft	Bite Size
K6 -SU	K7-SE	K8 -SV	1.5mm
C6 -S U	C7-SE	C8 -SV	2mm
LG6 -SU	LG7-SE	LG8 -SV	3mm
S6 -SU	S7-SE	S8 -SV	4mm
R6 -SU	R7-SE	R8 -SV	5mm
P6 -SU	P7-SE	P8 -SV	6mm
Q6 -SU	Q7-SE	Q8 -SV	7mm

• Intervertebral Disc Rongeur

• STRAIGHT JAW



15cm/6" Shaft	18cm/7" Shaft	20cm/8" Shaft	Bite Size
K6 -S	K7-S	K8 -S	1.5mm
C6 -S	C7-S	C8 -S	2mm
LG6 -S	LG7-S	LG8 -S	3mm
S6 -S	S7-S	S8 -S	4mm
R6 -S	R7-S	R8 -S	5mm
P6 -S	P7-S	P8 -S	6mm
Q6 -S	Q7-S	Q8 -S	7mm

• Intervertebral Disc Rongeur

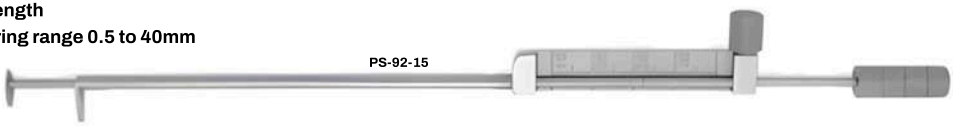
• 40° ANGLED UPWARD JAW



15cm/6" Shaft	18cm/7" Shaft	20cm/8" Shaft	Bite Size
K6 -SU	K7-SE	K8 -SV	1.5mm
C6 -S U	C7-SE	C8 -SV	2mm
LG6 -SU	LG7-SE	LG8 -SV	3mm
S6 -SU	S7-SE	S8 -SV	4mm
R6 -SU	R7-SE	R8 -SV	5mm
P6 -SU	P7-SE	P8 -SV	6mm
Q6 -SU	Q7-SE	Q8 -SV	7mm

• Direct Reading Depth Gauge

- 23cm length
  Measuring range 0.5 to 40mm



• Frazier Suction Tube

- 23cm/9”



PS9041-17	6FG	2.0mm
PS9042-17	7FG	2.3mm
PS9043-17	8FG	2.7mm
PS9044-17	9FG	3.0mm
PS9045-17	10FG	3.3mm
PS9046-17	11FG	3.7mm
PS9047-17	12FG	4.0mm

• Frazier Suction Tube

- 40˚ ANGLED DOWNWARD JAW



PS9041-17	6FG	2.0mm
PS9042-17	7FG	2.3mm
PS9043-17	8FG	2.7mm
PS9044-17	9FG	3.0mm
PS9045-17	10FG	3.3mm
PS9046-17	11FG	3.7mm
PS9047-17	12FG	4.0mm

• Bayonet Dissecting Forceps

- 40˚ ANGLED DOWNWARD JAW



19cm/7 1/2”
PS9701-19 1mm
PS9702-19 2mm

21cm/8 1/2” Tip Size
PS9701-21 1mm
PS9702-21 2mm

NEURO RASPATORY

• Warsi Raspatory Titanium

- **7 1/4˝ (18.5 cm)**

TI-00-2234 angle with wide blade
TI-00-2335 light curve with narrow blade
TI-00-2346 curved with narrow blade
TI-00-2547 angle with narrow blade


TI-00-2234


TI-00-2335


TI-00-2346


TI-00-2547

• Warsi Raspatory Titanium

- **Angled with wide blade / 5˝ (13 cm)**

TI-00-22CA


TI-00-22CA



• Yasargil Raspatory Probe Set

- **Single-ended / 7 1/4˝ (18.5 cm)**

WI-00-244 slight curve
WI-00-445 full curve
WI-00-446 angled
WI-00-447 double angle
WI-00-448 dissector

Single-ended / 9˝ (22.9 cm)
WI-00-4101 slight curve


WI-00-244


WI-00-4101


WI-00-2447

• Jacobson Raspatory/Probe Set

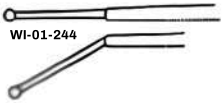
- **Single-ended / Round Handle / 7 1/4˝ (18.5 cm)**

WI-01-244 buttoned probe
WI-02-244 twin probe
WI-03-244 suture pusher
WI-03-244 vessel knife


WI-04-244


WI-03-244


WI-02-244


WI-01-244

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