

ZELPI® RETRACTORS

The Zelpi Retractor features a unique locking mechanism that guarantees against slipping and provides a 5" minimum exposure. The Zelpi comes with varying-length arms to accommodate differing patient anatomy. The varying length arms provide limited pressure on muscles and tissues to help reduce tissue necrosis. The blades are angled at 90°. This design is low profile, providing less bulk in the surgeon's work area than the conventional crank retractors.

The Zelpi Retractors are cost-effective, eliminating the cost of expensive multi-blade retractor systems.

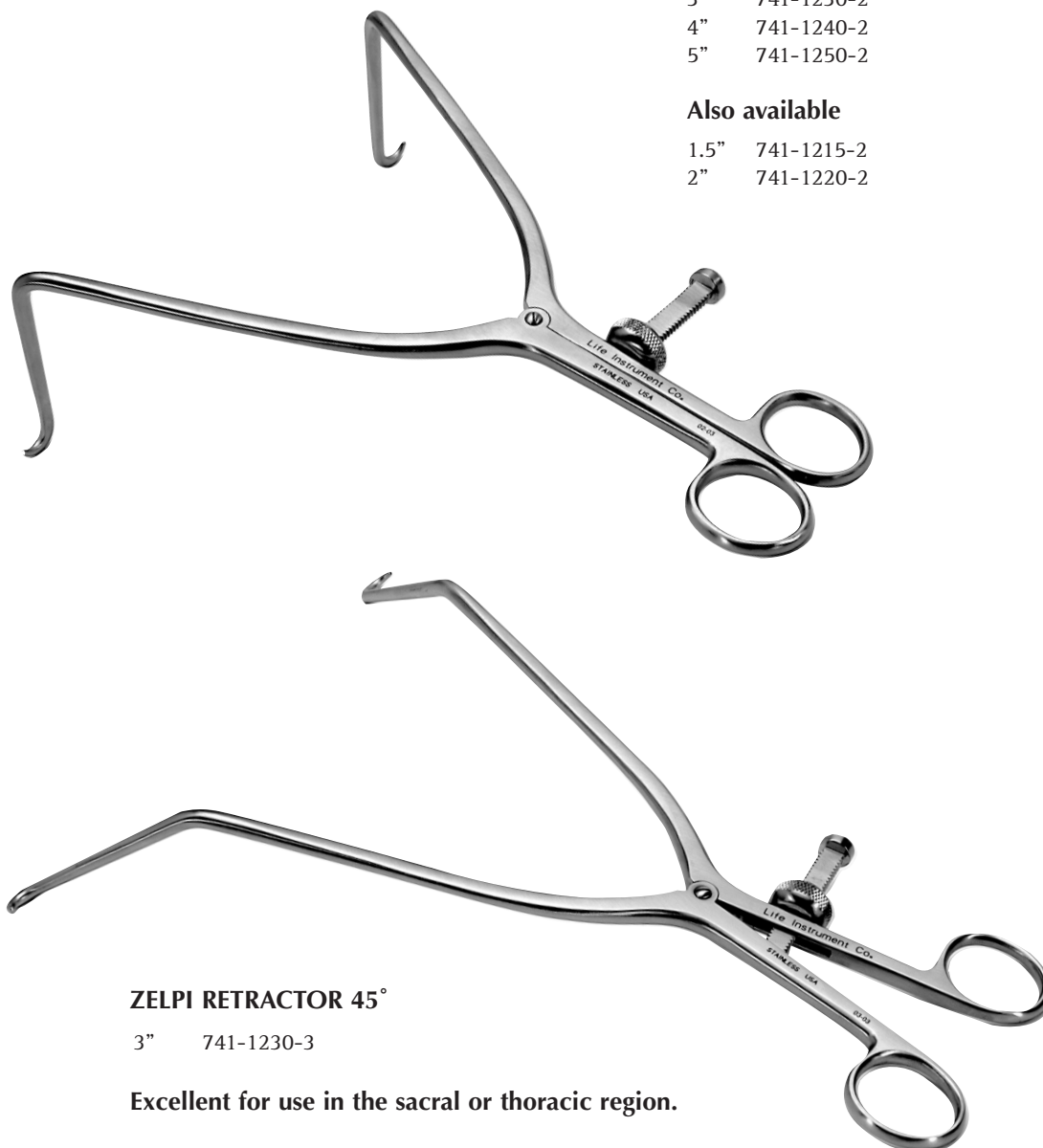
Left Handed Zelpi Retractors are available upon request. Zelpis can be ordered with the locking mechanism reversed for easier use for a left-handed person.

ZELPI RETRACTORS 90° 5" Minimum Exposure

3"	741-1230-2
4"	741-1240-2
5"	741-1250-2

Also available

1.5"	741-1215-2
2"	741-1220-2



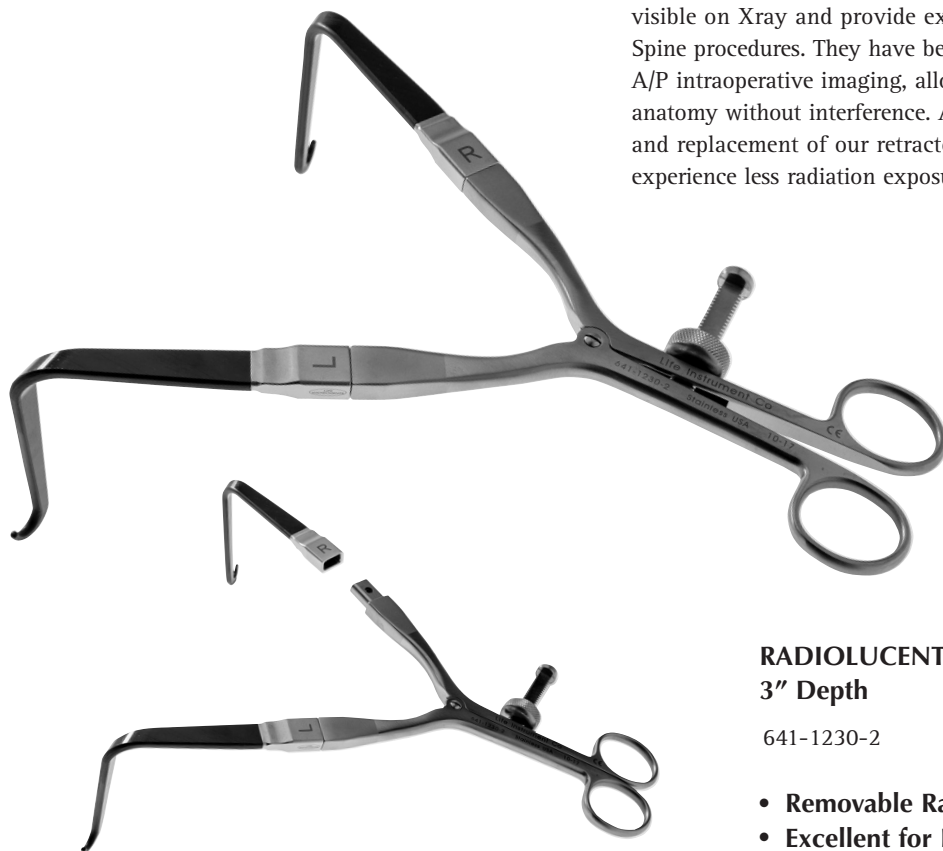
ZELPI RETRACTOR 45°

3" 741-1230-3

Excellent for use in the sacral or thoracic region.

RADIOLUCENT ZELPI® RETRACTOR

Life Instruments' Carbon Fiber Radiolucent Zelpis are not visible on Xray and provide excellent retraction for Lumbar Spine procedures. They have been particularly helpful during A/P intraoperative imaging, allowing surgeons to see critical anatomy without interference. Avoiding manipulation, removal, and replacement of our retractors has allowed surgeons to experience less radiation exposure and shorter operative times.



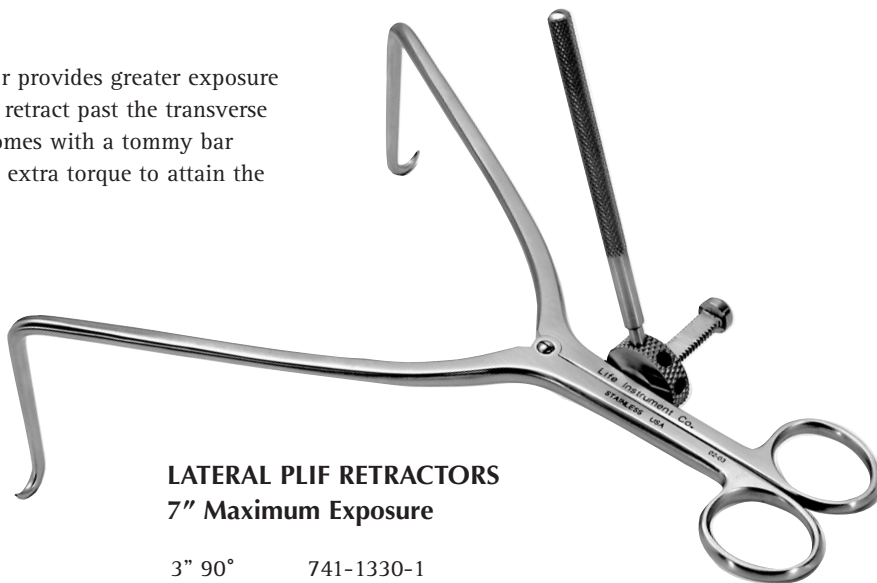
RADIOLUCENT ZELPI RETRACTOR 3" Depth

641-1230-2

- Removable Radiolucent Arms
- Excellent for Intraoperative Imaging
- Trademark spindle locking

LATERAL PLIF RETRACTORS

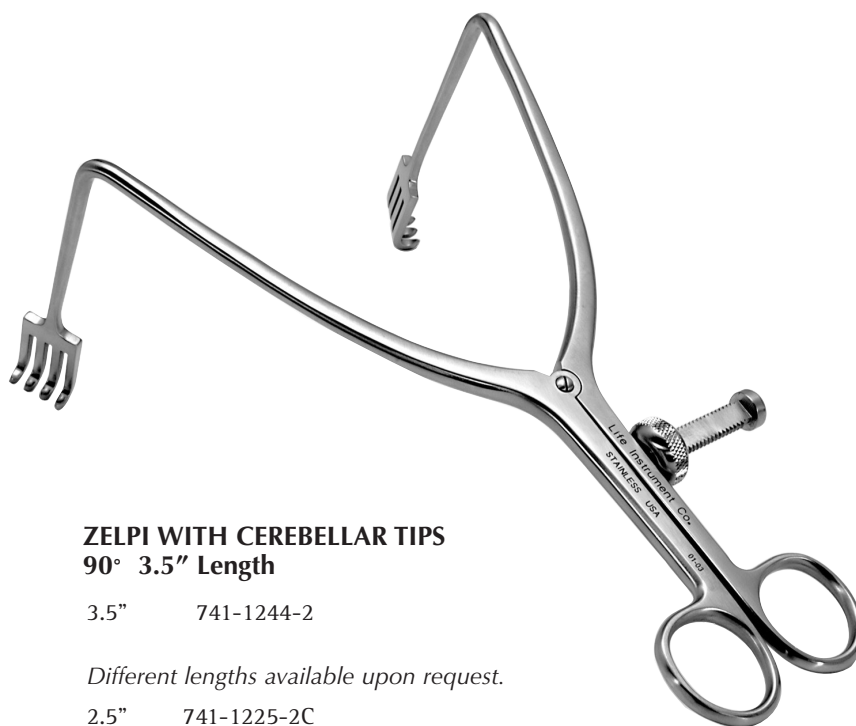
The Lateral Plif Retractor provides greater exposure enabling the surgeon to retract past the transverse process. The retractor comes with a tommy bar wrench that assists with extra torque to attain the 7" maximum exposure.



LATERAL PLIF RETRACTORS 7" Maximum Exposure

3" 90°	741-1330-1
4" 90°	741-1340-1
Wrench	741-1330-5

ZELPI® RETRACTORS



ZELPI WITH CEREBELLAR TIPS
90° 3.5" Length

3.5" 741-1244-2

Different lengths available upon request.

2.5"	741-1225-2C
3"	741-1234-2C
4"	741-1244-2C
5"	741-1254-2C
6"	741-1246-2C



ZELPI WITH CEREBELLAR TIPS
45° 3.5" Length

741-1244-3

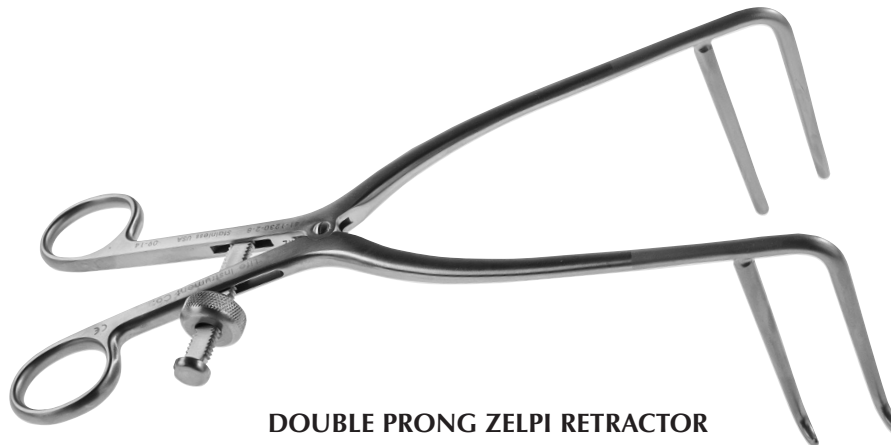
OFFSET ZELPI RETRACTORS



OFFSET ZELPI RETRACTORS

2.5" Right x 5" Left 741-1245-2L
2.5" Left x 5" Right 741-1245-2R

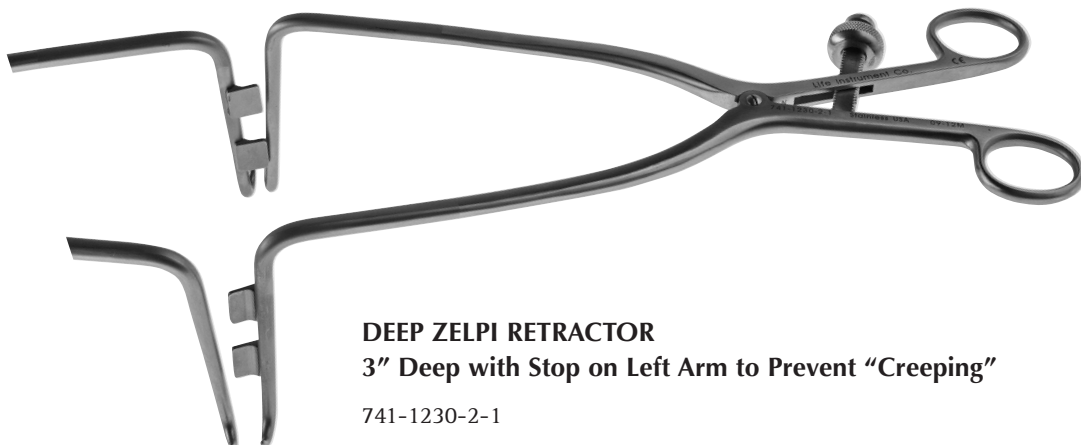
DOUBLE PRONG ZELPI RETRACTOR



DOUBLE PRONG ZELPI RETRACTOR

3" Deep 741-1230-2-8

DEEP ZELPI RETRACTOR



DEEP ZELPI RETRACTOR

3" Deep with Stop on Left Arm to Prevent "Creeping"

741-1230-2-1

GELPI RETRACTORS



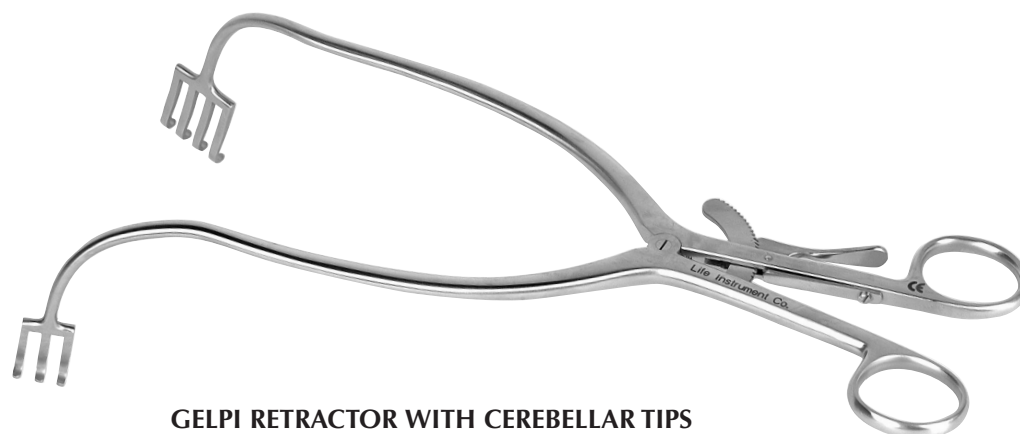
**ZELPI CEREBELLAR 90°
GELPI STYLE RATCHETT**

3" 741-1234-2-1



WILTSE GELPI RETRACTOR 4"

741-1240-0



GELPI RETRACTOR WITH CEREBELLAR TIPS

741-1241-0

LARGE GELPI RETRACTOR



LARGE GELPI RETRACTOR

3" 741-1230-0 70°

DEEP GELPI RETRACTOR 3"



DEEP GELPI RETRACTOR 3"

2"	741-1020-0	90°
3"	741-1030-0	90°
4"	741-1040-0	90°

MISKIMMON RETRACTOR



MISKIMMON RETRACTOR
8" Length 200mm

741-0701-0

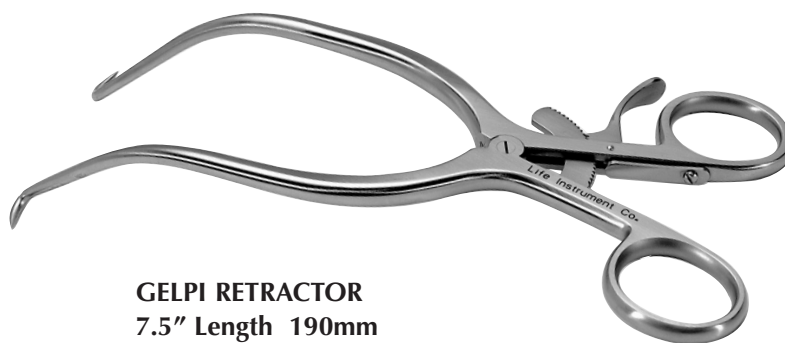
MEYERDING RETRACTOR



MEYERDING RETRACTOR
7.5" Length 190mm

2 3/8" x 1" (60 x 25mm) 741-0705-0

GELPI RETRACTOR



GELPI RETRACTOR
7.5" Length 190mm

741-1010-0

WEITLANDER RETRACTORS

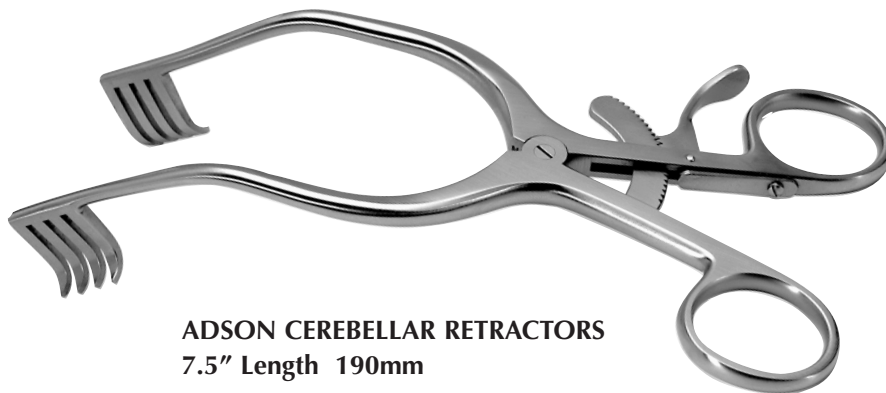


WEITLANDER RETRACTORS
3 x 4 prongs

SIZE

5 1/2"	741-5501-0
6 1/2"	741-6500-0
7 3/4"	741-7750-0
9"	741-0900-0

ADSON CEREBELLAR RETRACTORS



ADSON CEREBELLAR RETRACTORS
7.5" Length 190mm

Sharp	741-0702-0
Blunt	741-0702-0B

ANGLED ADSON CEREBELLAR RETRACTORS



ANGLED ADSON CEREBELLAR RETRACTORS

Sharp Tips

60°	741-0702-1-60
90°	741-0702-1-90

Blunt Tips

60°	741-0702-1B-60
90°	741-0702-1B-90



WILLIAMS RETRACTORS



WILLIAMS RETRACTORS Micro Dissectomy Retractor

SIZE

10mm x 70mm Left	741-0713-1
10mm x 70mm Right	741-0713-2
20mm x 70mm Left	741-0703-1
20mm x 70mm Right	741-0703-2

SIZE

10mm x 50mm Left	741-0513-1
10mm x 50mm Right	741-0513-2
20mm x 50mm Left	741-0503-1
20mm x 50mm Right	741-0503-2

Left/Right denotes blade side.

DUCKER RETRACTORS



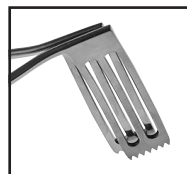
DUCKER RETRACTORS

50mm x 20mm Left	741-0750-1
50mm x 20mm Right	741-0750-2
70mm x 20mm Left	741-0770-1
70mm x 20mm Right	741-0770-2



DOUBLE DUCKER RETRACTORS Double open blade - Interlocking

60mm x 21mm	741-0960-0
73mm x 21mm	741-0973-0
90mm x 21mm	741-0990-0



MCELROY RETRACTORS

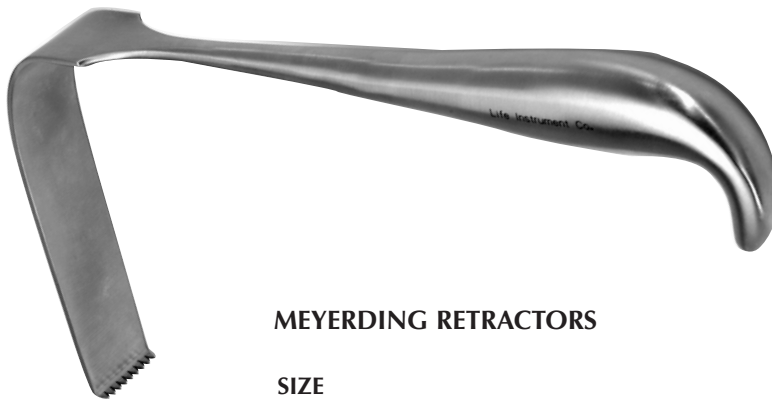


MCELROY RETRACTORS
5" depth 125mm

SIZE

9"	740-0901-0
11"	740-1101-0
13"	740-1301-0 Extra Long

MEYERDING RETRACTORS



MEYERDING RETRACTORS

SIZE

17mm x 55mm	748-0917-0
25mm x 80mm	748-0925-0
25mm x 125mm	748-0925-L
25mm x 150mm	748-0925-LC
50mm x 94mm	748-0950-0

TAYLOR RETRACTORS



MICRO TAYLOR RETRACTORS

Blade width *only* 3/4" 19mm

SIZE

2"	50mm	748-9512-0
3"	75mm	748-9513-0
4"	100mm	748-9514-0
5"	125mm	748-9515-0
6"	150mm	748-9516-0



CONCAVE MICRO TAYLOR RETRACTOR

3"	748-9523-1
4"	748-9524-1



TAYLOR RETRACTORS

Blade width 1 1/4" 30mm

3"	75mm	748-9503-0
4"	100mm	748-9504-0
6"	150mm	748-9506-0

TO ORDER, CALL 800-925-2995

RADIOLUCENT PEEK CERVICAL RETRACTOR SYSTEM



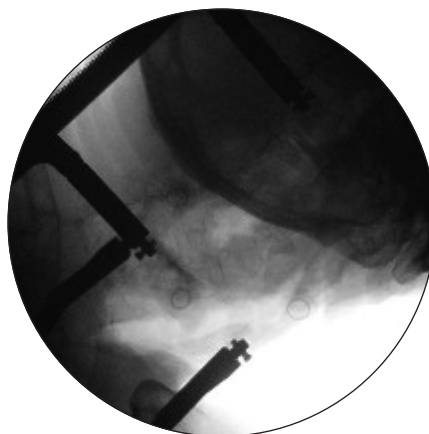
RADIOLUCENT PEEK CERVICAL RETRACTOR SYSTEM

748-0001-P

*** Quick Connect Feature Holds Blade in Frame ***

Catalog #	Quantity	Description
748-1000-P	1	Transverse Retractor Frame Double Hinged Arms with Peek Connector
748-2000-P	1	Longitudinal Counter Retractor Frame Double Hinged Arms with Peek Connector
748-0030-1	2	Peek Blade Toothed 30mm
748-0035-1	2	Peek Blade Toothed 35mm
748-0040-1	2	Peek Blade Toothed 40mm
748-0045-1	2	Peek Blade Toothed 45mm
748-0050-1	2	Peek Blade Toothed 50mm
748-0055-1	2	Peek Blade Toothed 55mm
748-0060-1	2	Peek Blade Toothed 60mm
748-0065-1	2	Peek Blade Toothed 65mm
748-0030-2	2	Peek Blade Blunt 30mm
748-0035-2	2	Peek Blade Blunt 35mm
748-0040-2	2	Peek Blade Blunt 40mm
748-0045-2	2	Peek Blade Blunt 45mm
748-0050-2	2	Peek Blade Blunt 50mm
748-0055-2	2	Peek Blade Blunt 55mm
748-0060-2	2	Peek Blade Blunt 60mm
748-0065-2	2	Peek Blade Blunt 65mm
748-0700-0	2	Blade Holders
748-0000-PT	1	Sterilization Tray for Peek Cervical Retractor

CERVICAL INSTRUMENTS



Special Peek Connector enables radiolucency in the AP plane.



PEEK BLADES

Non-rotating

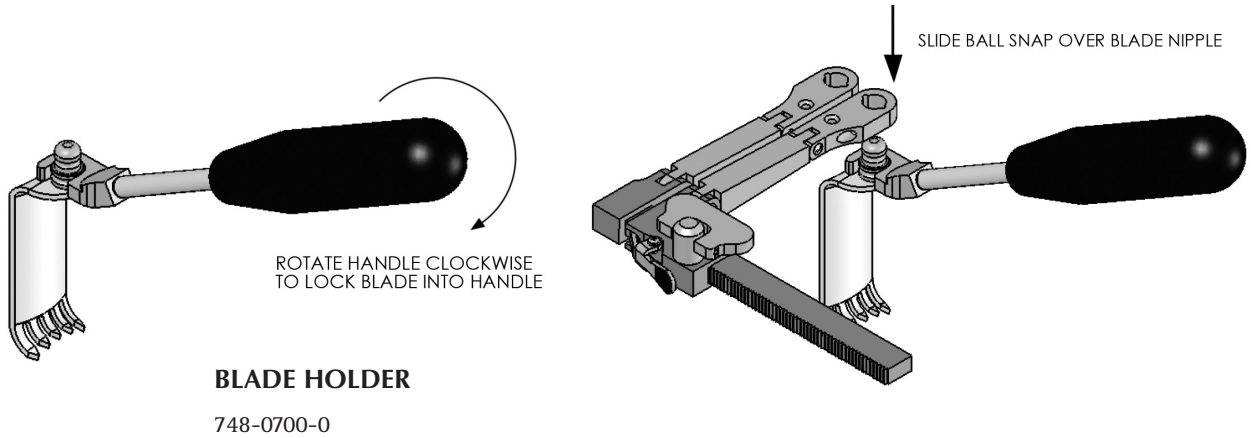
	TOOTHED	BLUNT
30mm	748-0030-1	748-0030-2
35mm	748-0035-1	748-0035-2
40mm	748-0040-1	748-0040-2
45mm	748-0045-1	748-0045-2
50mm	748-0050-1	748-0050-2
55mm	748-0055-1	748-0055-2
60mm	748-0060-1	748-0060-2
65mm	748-0065-1	748-0065-2



748-1000-P

TO ORDER, CALL 800-925-2995

CERVICAL INSTRUMENTS



**TRANSVERSE RETRACTOR FRAME
WITH PEEK CONNECTOR**

748-1000-P



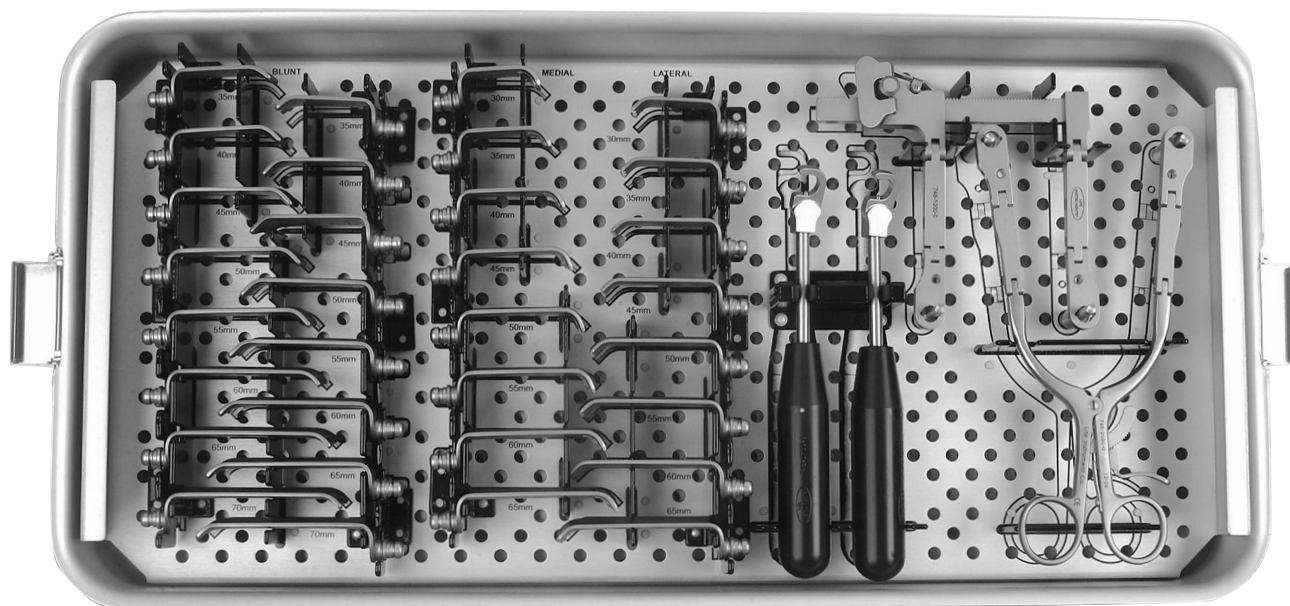
**LONGITUDINAL RETRACTOR FRAME
WITH PEEK CONNECTOR**

748-2000-P



ANTERIOR CERVICAL RETRACTOR SYSTEM

** Titanium Blades **



RETRACTOR SYSTEM

748-0000-0

For complete system information please see pages 11.8 and 11.9.

Catalog #	Quantity	Description
748-1000-0	1	Transverse Retractor Frame Double Hinged Arms
748-2000-0	1	Longitudinal Counter Retractor Frame Double Hinged Arms
748-1030-1	1	Retractor Blade Medial 30x23 Toothed Titanium
748-1035-1	1	Retractor Blade Medial 35x23 Toothed Titanium
748-1040-1	1	Retractor Blade Medial 40x23 Toothed Titanium
748-1045-1	1	Retractor Blade Medial 45x23 Toothed Titanium
748-1050-1	1	Retractor Blade Medial 50x23 Toothed Titanium
748-1055-1	1	Retractor Blade Medial 55x23 Toothed Titanium
748-1060-1	1	Retractor Blade Medial 60x23 Toothed Titanium
748-1065-1	1	Retractor Blade Medial 65x23 Toothed Titanium
748-1035-2	2	Retractor Blade 35x23 Blunt Titanium
748-1040-2	2	Retractor Blade 40x23 Blunt Titanium
748-1045-2	2	Retractor Blade 45x23 Blunt Titanium
748-1050-2	2	Retractor Blade 50x23 Blunt Titanium
748-1055-2	2	Retractor Blade 55x23 Blunt Titanium
748-1060-2	2	Retractor Blade 60x23 Blunt Titanium
748-1065-2	2	Retractor Blade 65x23 Blunt Titanium
748-1070-2	2	Retractor Blade 70x23 Blunt Titanium
748-1030-3	1	Retractor Blade Lateral 30x23 Toothed Titanium
748-1035-3	1	Retractor Blade Lateral 35x23 Toothed Titanium
748-1040-3	1	Retractor Blade Lateral 40x23 Toothed Titanium
748-1045-3	1	Retractor Blade Lateral 45x23 Toothed Titanium
748-1050-3	1	Retractor Blade Lateral 50x23 Toothed Titanium
748-1055-3	1	Retractor Blade Lateral 55x23 Toothed Titanium
748-1060-3	1	Retractor Blade Lateral 60x23 Toothed Titanium
748-1065-3	1	Retractor Blade Lateral 65x23 Toothed Titanium
748-0700-0	2	Blade Holders
748-0000-T	1	Sterilization Tray: Includes Outer Tray and Lid, 1 Level Insert

* See page 11.12 for Micro Titanium Blades 14mm width.

TO ORDER, CALL 800-925-2995

CLOWARD CERVICAL RETRACTORS



No Lip, 13mm

CLOWARD CERVICAL RETRACTORS

SIZE

13mm (no lip)	748-7513-0
18mm	748-7518-0
20mm	748-7520-0
23mm	748-7523-0
40mm	748-7540-0 Special with 5" Life handle

NO-LIP CLOWARD CERVICAL RETRACTORS



NO-LIP CLOWARD CERVICAL RETRACTORS

18mm without lip	748-7518-0C
20mm without lip	748-7520-0C
23mm without lip	748-7523-0C

CERVICAL RETRACTORS

CERVICAL RETRACTORS WITH DOUBLE FINGER HOLD 3" depth 75mm

Serrated	743-0603-0
Smooth	743-0613-0



CERVICAL DISTRACTORS



CASPAR STYLE DISTRACTORS

Right Distractor 743-1000-1
Left Distractor 743-1000-2

Custom 100mm length

Right Distractor 743-1000-1-1
Left Distractor 743-1000-2-1



HINGED DISTRACTOR

HINGED DISTRACTOR

743-1011-0

CERVICAL DISTRACTION SCREW RETRACTOR BLADE



CURVED CERVICAL DISTRACTION RETRACTOR BLADE

749-0018-1

Fits over Caspar Screw.
Does not interfere
with Distractor.



CERVICAL DISTRACTION SCREW RETRACTOR BLADE

749-0018-0

TO ORDER, CALL 800-925-2995

CERVICAL DISTRACTION SCREW



CERVICAL DISTRACTION SCREW

SIZE	SINGLE	PACK OF 10
12mm	743-0012-0	743-0012-P10
14mm	743-0014-0	743-0014-P10
16mm	743-0016-0	743-0016-P10

** Non-Sterile **

DISTRACTION SCREWDRIVER



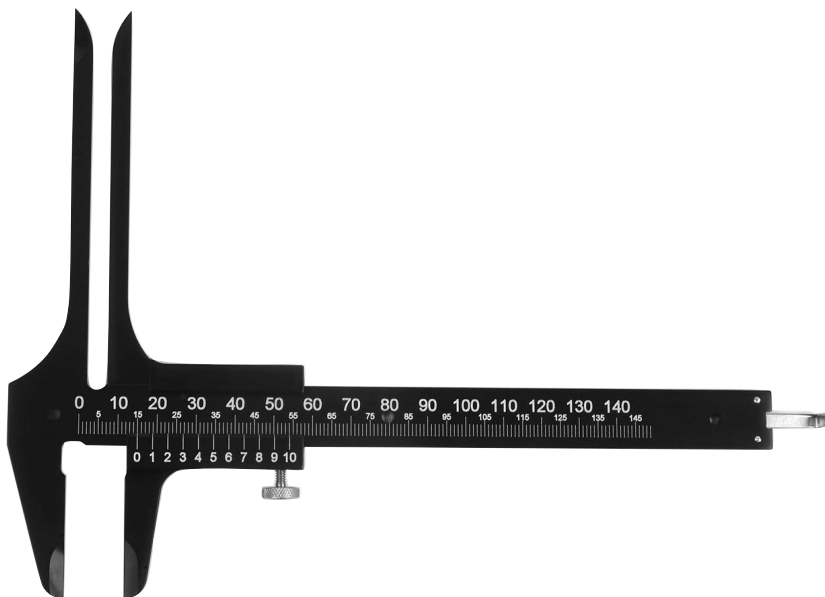
DISTRACTION SCREWDRIVER

743-1001-0

CALIPER

CALIPER

749-1090-0



TWIST DRILL



TWIST DRILL

743-1003-0

DRILL GUIDE

DRILL GUIDE

Drill Guide Right	743-1002-1
Drill Guide Left	743-1002-2



CERVICAL RETRACTOR CASPAR STYLE

LONGITUDINAL RETRACTOR FRAME SINGLE HINGE

743-1301-0



TRANSVERSE RETRACTOR FRAME SINGLE HINGE

743-1101-0



RETRACTOR BLADES



MEDIAL

BLUNT

LATERAL

MEDIAL BLADES

40 x 23mm	749-1140-1
45 x 23mm	749-1145-1
50 x 23mm	749-1150-1
55 x 23mm	749-1155-1
60 x 23mm	749-1160-1

BLUNT BLADES

45 x 23mm	749-1145-2
50 x 23mm	749-1150-2
55 x 23mm	749-1155-2
60 x 23mm	749-1160-2
65 x 23mm	749-1165-2

LATERAL BLADES

40 x 23mm	749-1140-3
45 x 23mm	749-1145-3
50 x 23mm	749-1150-3
55 x 23mm	749-1155-3
60 x 23mm	749-1160-3

BLADE EJECTOR

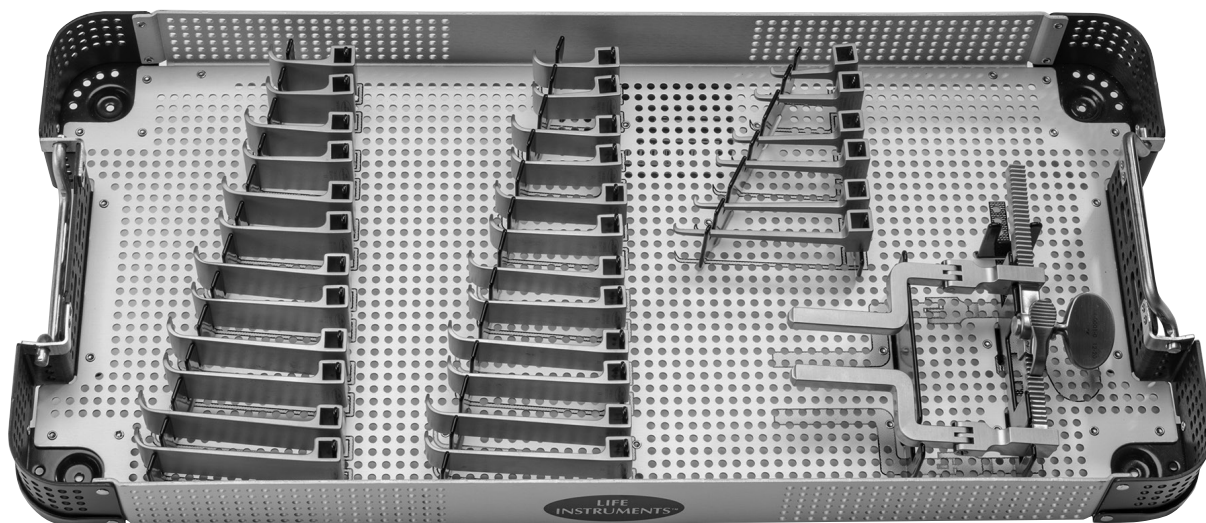
BLADE EJECTOR

749-0000-0



TO ORDER, CALL 800-925-2995

McCULLOCH STYLE SYSTEM



McCULLOCH RETRACTOR SYSTEM

Matte Finish Stainless Steel

744-2000-0

Standard Set

Catalog #	Quantity	Description
744-0001-0	1	Hinged Retractor Frame
749-2030-0	2	Small Muscle Blades 20x30mm
749-2040-0	2	Small Muscle Blades 20x40mm
749-2050-0	2	Small Muscle Blades 20x50mm
749-2060-0	2	Small Muscle Blades 20x60mm
749-2070-0	2	Small Muscle Blades 20x70mm
749-2080-0	2	Small Muscle Blades 20x80mm
749-2730-0	2	Large Muscle Blades 27x30mm
749-2740-0	2	Large Muscle Blades 27x40mm
749-2750-0	2	Large Muscle Blades 27x50mm
749-2760-0	2	Large Muscle Blades 27x60mm
749-2770-0	2	Large Muscle Blades 27x70mm
749-2780-0	2	Large Muscle Blades 27x80mm
749-0030-0	1	Hook 30mm
749-0040-0	1	Hook 40mm
749-0050-0	1	Hook 50mm
749-0060-0	1	Hook 60mm
749-0070-0	1	Hook 70mm
749-0080-0	1	Hook 80mm
744-2000-T	1	Sterilization Case for Retractor System

Additional length components available.

COMPONENTS

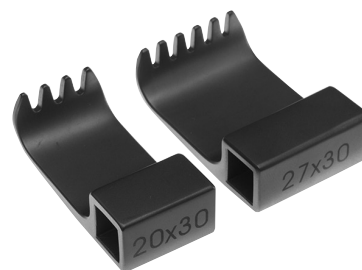


FRAME

744-0001-0

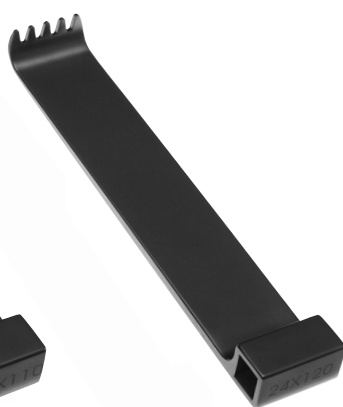
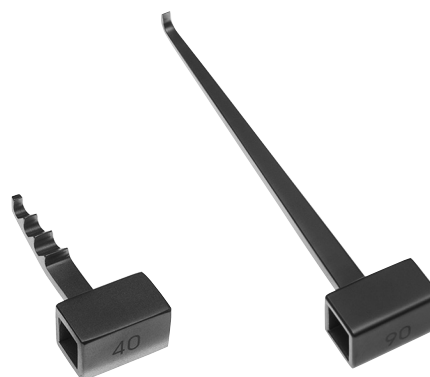


HOOK



SMALL AND LARGE MUSCLE BLADES

ADDITIONAL ITEMS

LONG SMALL
MUSCLE BLADELONG LARGE
MUSCLE BLADE

STEPPED HOOK

LONG HOOK

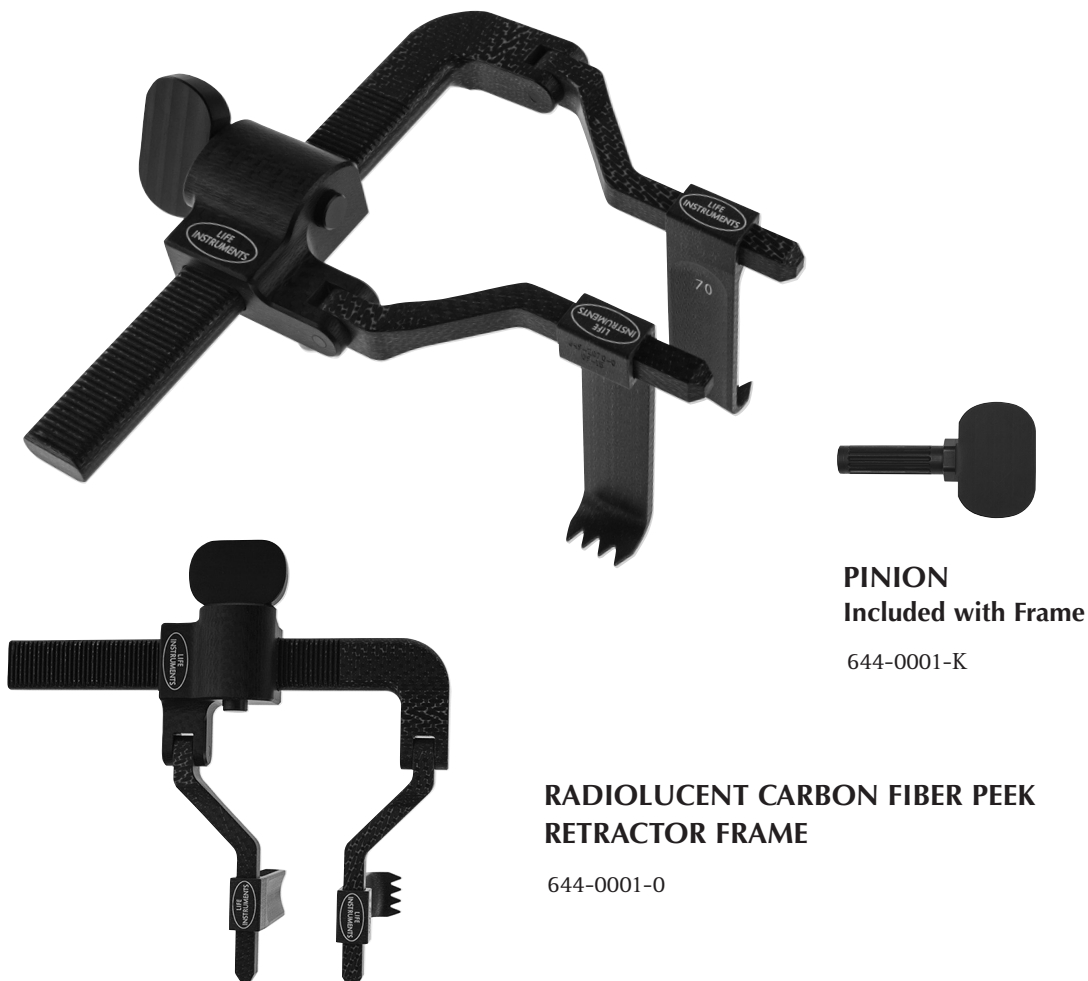
Catalog #	Quantity	Description
749-2090-0	1	Long Small Muscle Blade 20x90mm
749-2000-0	1	Long Small Muscle Blade 20x100mm
749-2011-0	1	Long Small Muscle Blade 20x110mm
749-2012-0	1	Long Small Muscle Blade 20x120mm
749-2490-0	1	Long Large Muscle Blade 24x90mm
749-2400-0	1	Long Large Muscle Blade 24x100mm
749-2411-0	1	Long Large Muscle Blade 24x110mm
749-2412-0	1	Long Large Muscle Blade 24x120mm

Catalog #	Quantity	Description
749-0030-1	1	Stepped Hook 30mm
749-0040-1	1	Stepped Hook 40mm
749-0050-1	1	Stepped Hook 50mm
749-0060-1	1	Stepped Hook 60mm
749-0070-1	1	Stepped Hook 70mm
749-0080-1	1	Stepped Hook 80mm
749-0090-1	1	Stepped Hook 90mm
749-0100-1	1	Stepped Hook 100mm
749-0110-1	1	Stepped Hook 110mm
749-0090-0	1	Extra Long Hook 90mm
749-0100-0	1	Extra Long Hook 100mm
749-0110-0	1	Extra Long Hook 110mm

TO ORDER, CALL 800-925-2995

4.21

RADIOLUCENT RETRACTORS



PINION
Included with Frame

644-0001-K

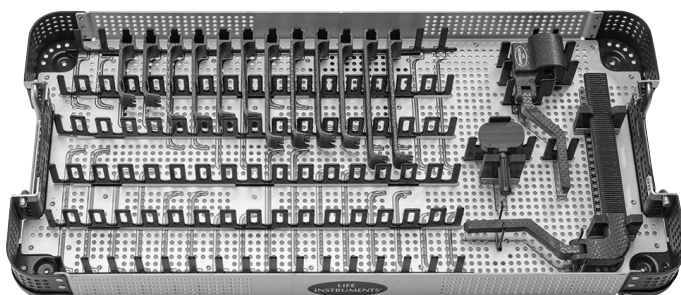
RADIOLUCENT CARBON FIBER PEEK RETRACTOR FRAME

644-0001-0

CARBON FIBER PEEK BLADES

SIZE	20mm width	25mm width
50mm	649-2050-0	649-2550-0
70mm	649-2070-0	649-2570-0
90mm	649-2090-0	649-2590-0
110mm	649-2011-0	649-2511-0

*Additional blade sizes available upon request.
Please visit our website at www.lifeinstruments.com.*



RADIOLUCENT RETRACTOR TRAY

644-0000-T

MICRO LUMBAR DISCECTOMY RETRACTOR



RETRACTOR FRAME

749-1401-0

SPECULAS

40mm	749-1440-0
45mm	749-1445-0
50mm	749-1450-0
55mm	749-1455-0
60mm	749-1460-0
65mm	749-1465-0
75mm	749-1475-0



BLADES

35mm	749-1435-1
40mm	749-1440-1
45mm	749-1445-1
50mm	749-1450-1
55mm	749-1455-1
60mm	749-1460-1
65mm	749-1465-1
70mm	749-1470-1
75mm	749-1475-1



TO ORDER, CALL 800-925-2995

OFFSET LAMINA SPREADERS

OFFSET LAMINA SPREADER

741-1106-1



OFFSET LAMINA SPREADER WITH LOCKING SPINDLE

741-1106-1S



LAMINA SPREADERS

LAMINA SPREADER WITH LOCKING SPINDLE

3" Deep 741-9503-0S
5" Deep 741-9505-0S

Available without teeth upon request.



LAMINA SPREADERS

LAMINA SPREADERS

Small 6.5"	741-6506-0
Small 6.5"	741-6506-0S with Spindle
Small 6.5"	741-6506-0C no teeth - serrations only
Large 10"	741-9503-0



SMALL



LARGE

LONG TAPERED SPREADER

LONG TAPERED SPREADER

741-6570-0T
741-6570-0 Spreader without taper



MULTI ACTION RETRACTORS



PLAN B MULTI ACTION RETRACTOR WITH LOCKING SPINDLE

50mm	741-7550-0
75mm	741-7575-0
100mm	741-7500-0

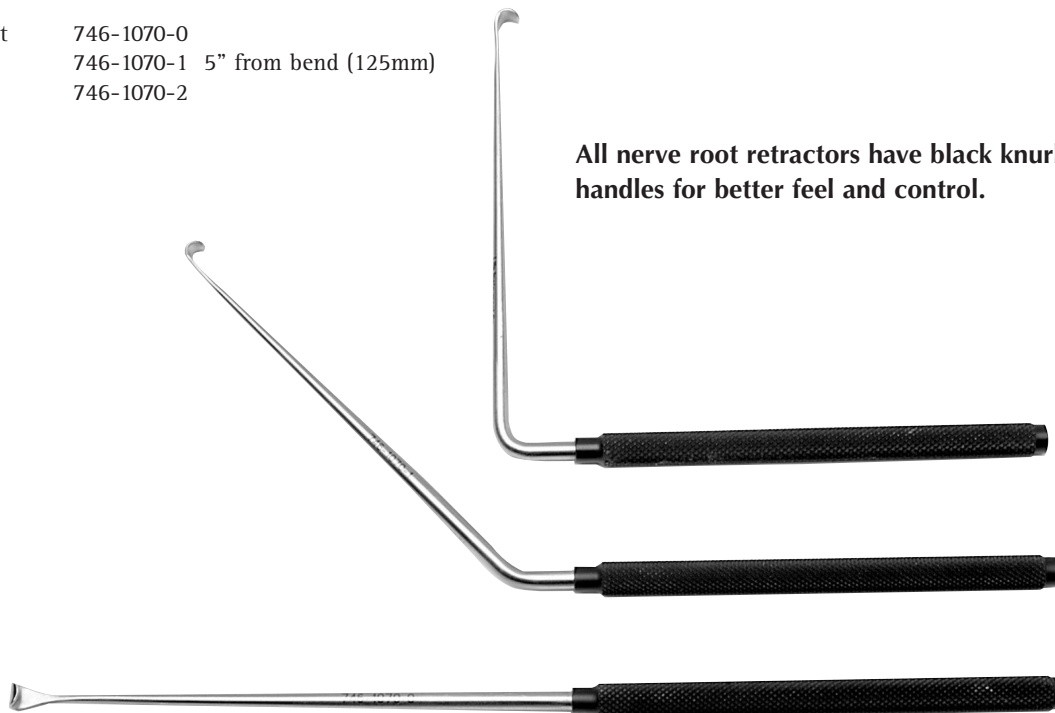
Can be used with Life Instrument Arm and Universal Attachment to stabilize to O.R. table. See page 10.3.

LOVE NERVE ROOT RETRACTORS

LOVE NERVE ROOT RETRACTORS

Straight	746-1070-0
45°	746-1070-1 5" from bend (125mm)
90°	746-1070-2

All nerve root retractors have black knurled handles for better feel and control.



SCOVILLE RETRACTORS



SCOVILLE RETRACTORS Large Handle

8mm

45°	746-1080-1-2	5" working length
Bayonet	746-1080-3-2	4.5" working length

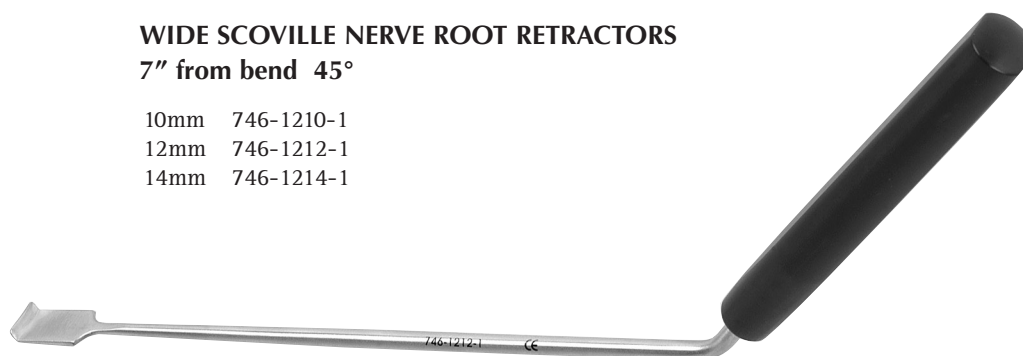
10mm

45°	746-1010-1-2
Bayonet	746-1010-3-2

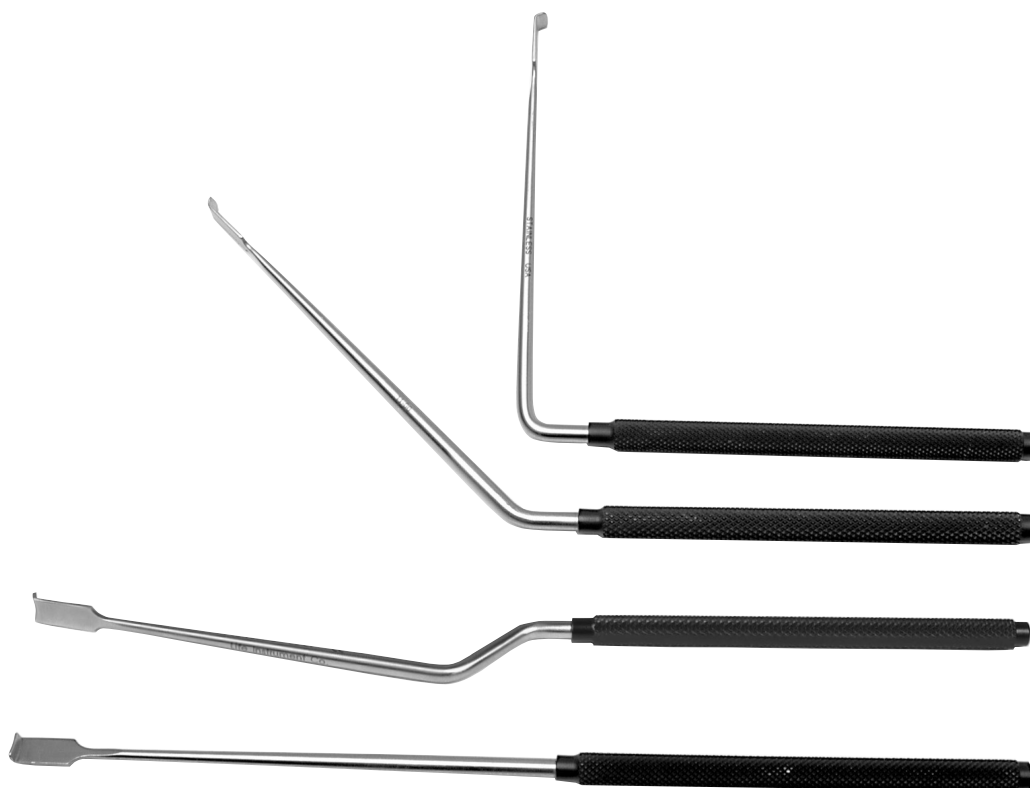
WIDE SCOVILLE NERVE ROOT RETRACTORS

WIDE SCOVILLE NERVE ROOT RETRACTORS 7" from bend 45°

10mm	746-1210-1
12mm	746-1212-1
14mm	746-1214-1



SCOVILLE NERVE ROOT RETRACTORS



SCOVILLE NERVE ROOT RETRACTORS

8mm

Straight	746-1080-0
45°	746-1080-1 5" from bend (125mm)
90°	746-1080-2
Bayonet	746-1080-3

HESS NERVE RETRACTORS

3mm

45°	746-1030-1
90°	746-1030-2
Bayonet	746-1030-3

3mm



5mm



8mm



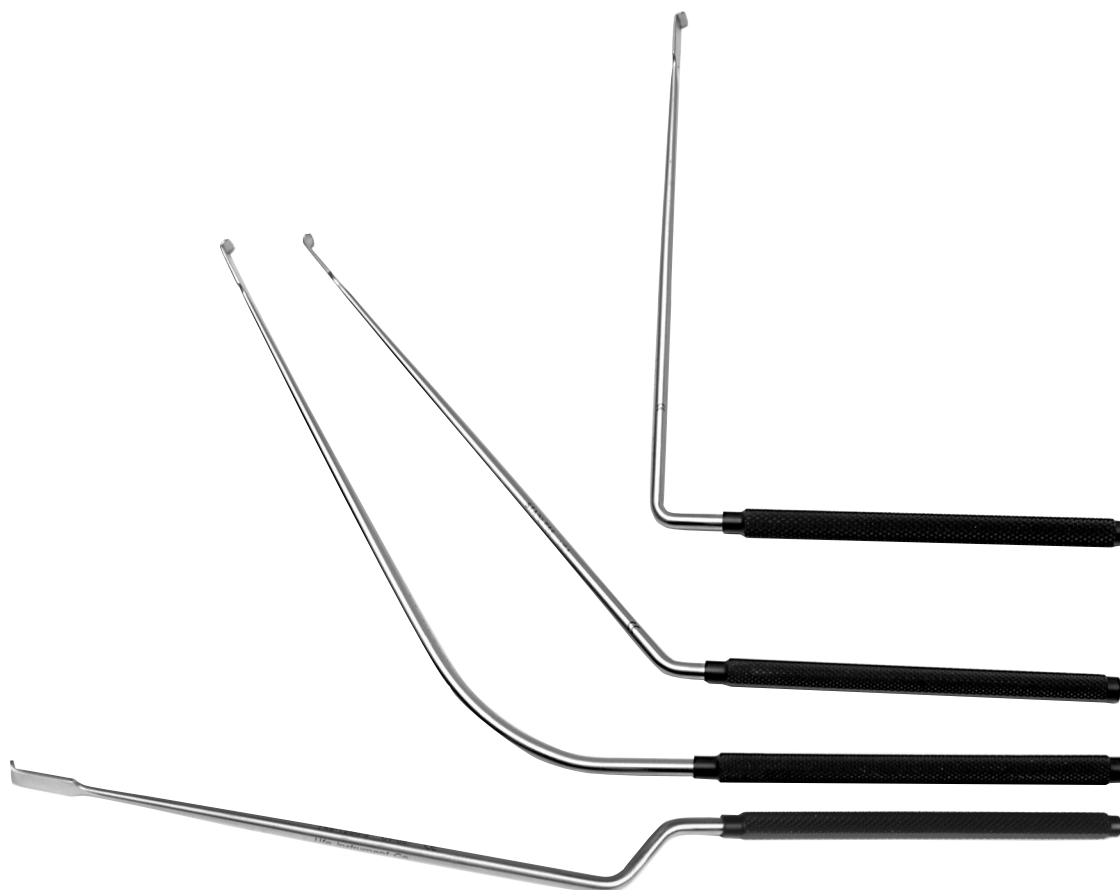
5mm

45°	746-1050-1
90°	746-1050-2
Bayonet	746-1050-3

All nerve root retractors have black knurled handles for better feel and control.

*Custom handles available upon request.
No lip available upon request.*

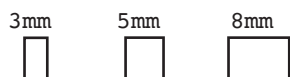
EXTRA LONG NERVE ROOT RETRACTORS



SCOVILLE RETRACTORS

8mm

90°	746-1280-2	7" from bend (175mm)
45°	746-1280-1	7" from bend (175mm)
Full Curve	746-1280-4	
Bayonet	746-1280-3	6" from bend (150mm)



All nerve root retractors have black knurled handles for better feel and control.

HESS NERVE RETRACTORS

3mm

90°	746-1230-2	7" from bend (175mm)
45°	746-1230-1	7" from bend (175mm)
Bayonet	746-1230-3	6" from bend (150mm)

5mm

90°	746-1250-2	7" from bend (175mm)
45°	746-1250-1	7" from bend (175mm)
Bayonet	746-1250-3	6" from bend (150mm)

Custom handles available upon request.

MEMORY METAL INSTRUMENTS



NERVE ROOT RETRACTORS

Nitinol Shaft

BAYONET

8mm	4.5" working length	746-1080-3N
8mm	6" working length	746-1280-3N
5mm	6" working length	746-1250-3N

45°

5mm	7" working length	746-1250-1N
8mm	7" working length	746-1280-1N

90°

5mm	7" working length	746-1250-2N
8mm	7" working length	746-1280-2N

** Great for Custom Angles and Hard to Reach Areas **

** Returns to Original Form After Sterilization **

V-STYLE NERVE RETRACTOR



V-STYLE NERVE RETRACTOR

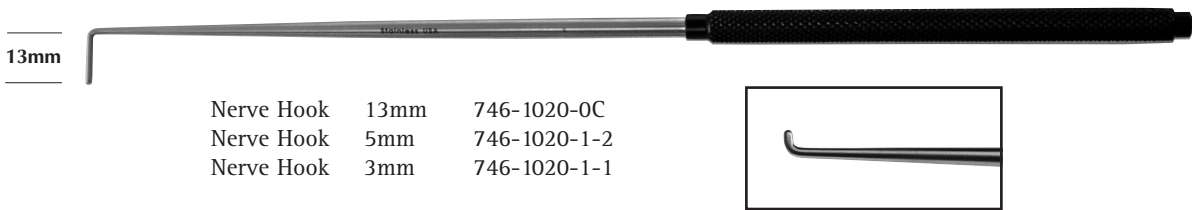
746-1280-5

NERVE ROOT RETRACTORS



NERVE ROOT RETRACTORS

Regular 8.5"	215mm	746-8520-0
Fine 8.5"	215mm	746-8520-1 (not shown)
Fine 10.5"	265mm	746-1020-1
Regular 10.5"	265mm	746-1020-0
Anterior 16.5"	420mm	746-1620-0 (shown on p. 7.5)



Nerve Hook	13mm	746-1020-0C
Nerve Hook	5mm	746-1020-1-2
Nerve Hook	3mm	746-1020-1-1



Fine Nerve Hook	6mm	746-0860-1
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BAYONET NERVE HOOK



BAYONET NERVE HOOK
6" working length 150mm

746-1120-3	Down (shown above)
746-1120-3R	Right
746-1120-3L	Left
746-1120-3U	Up

MICRO BAYONET NERVE HOOK



MICRO BAYONET NERVE HOOK
746-1101-3M

MURPHY PROBES



MURPHY PROBES

2.7mm ball size

Murphy Ball Hook	8.5" 215mm	747-8100-1
Murphy Ball Hook w/Suture Hole		747-8100-2 (not shown)
8.5" Straight Ball Probe	215mm	747-8100-0
Murphy Ball Hook Long	10.5" 265mm	747-1050-1
Long Straight Ball Probe	10.5" 265mm	747-1050-0

BALL PROBES

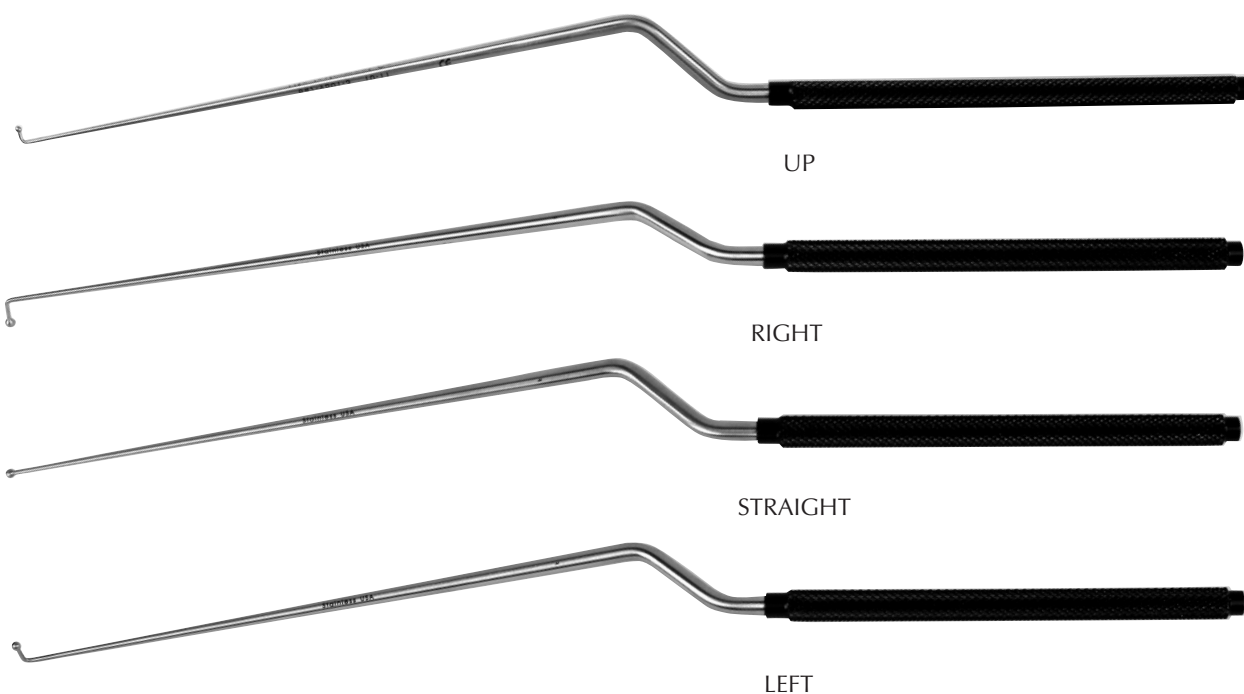


BALL PROBES

9" length 230mm

Ball Probe #1	Straight	747-9001-0
Ball Probe #2	8mm 65° Bend	747-9002-0
Ball Probe #3	10mm 80° Bend	747-9003-0
Ball Probe #4	12mm 75° Bend	747-9004-0
Ball Probe #5	13mm 80° Bend	747-9005-0
Set of 5		747-9000-0

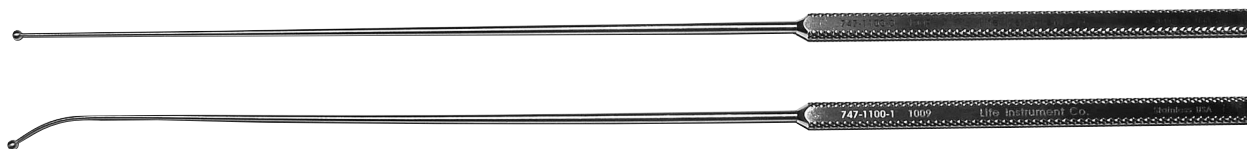
BAYONET BALL PROBES



BAYONET BALL PROBES 6" working length

Ball Probe Straight	847-9503-3C
Ball Probe 5mm Up	847-9501-3
Ball Probe 5mm Right	847-9501-3RC
Ball Probe 5mm Left	847-9501-3LC
Ball Probe 9mm Up	847-9503-3
Ball Probe 9mm Right	847-9503-3RC
Ball Probe 9mm Left	847-9503-3LC

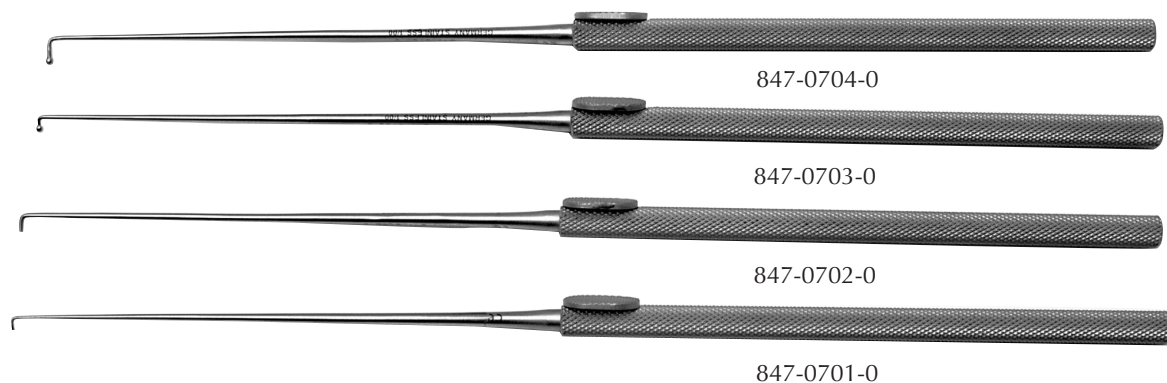
FLEXIBLE BALL PROBES



FLEXIBLE BALL PROBES 10.5" overall length

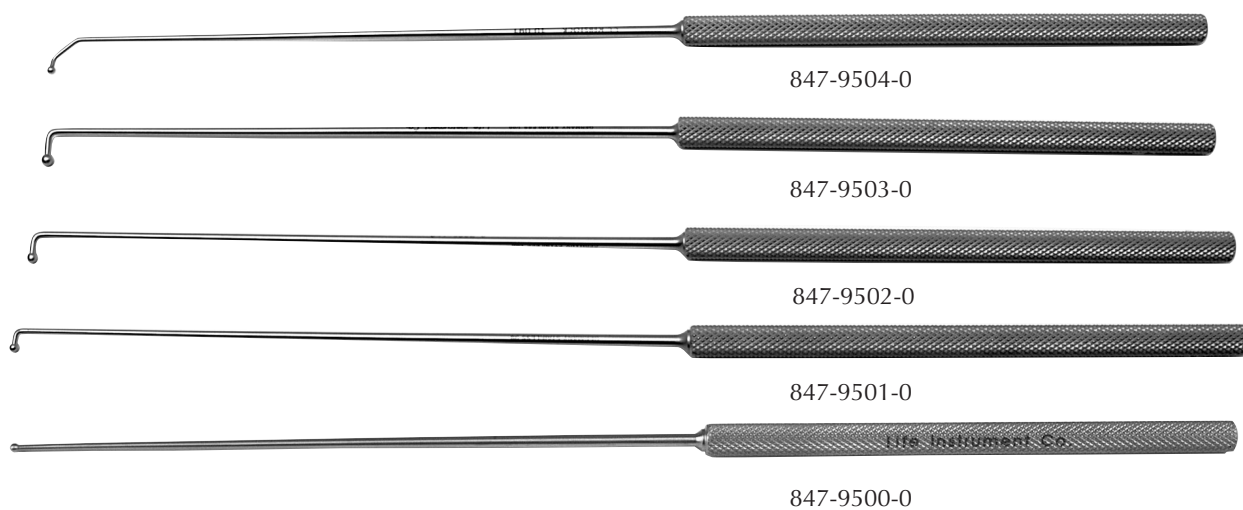
Ball Probe Straight	747-1100-0
Ball Probe Curved	747-1100-1

MICRO BALL PROBES



MICRO BALL PROBES AND HOOKS 7" length 175mm

Nerve Hook 2mm	847-0701-0
Nerve Hook 3mm	847-0702-0
3mm Ball Probe	847-0703-0
4mm Ball Probe	847-0704-0



MICRO BALL PROBES 9.5" overall length 245mm

5mm Ball Probe	847-9501-0
7mm Ball Probe	847-9502-0
9mm Ball Probe	847-9503-0
Curved Ball Probe	847-9504-0
Straight Ball Probe	847-9500-0



MICRO NERVE HOOK 9.5" overall length 245mm

846-0905-1	5mm
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CARBON FIBER RETRACTORS



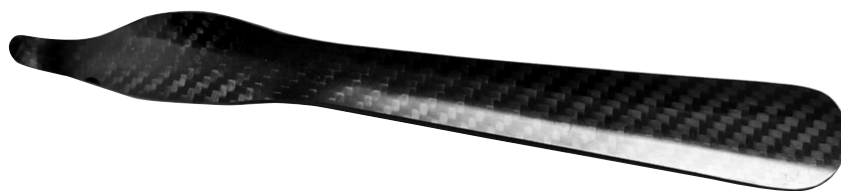
CARBON FIBER ANTERIOR RETRACTORS

WYLIE STYLE

Blade width 25mm

BLADE DEPTH

3"	645-2530-0
4"	645-2540-0
6"	645-2560-0
8"	645-2580-0



HOHMANN STYLE RETRACTOR

9.5" overall length

10mm	643-9510-0
18mm	643-9518-0
25mm	643-9525-0



CLOWARD RETRACTOR

100mm blade

648-7520-0

TO ORDER, CALL 800-925-2995

SUCTION SCOVILLE RETRACTOR



SUCTION SCOVILLE RETRACTOR
7mm

746-1150-1



SCOVILLE RETRACTOR WITH SUCTION TIP



SCOVILLE RETRACTOR WITH SUCTION TIP
5" from bend

5mm	790-0805-0	8 FR
8mm	790-0808-0	8 FR

See pages 8.1 through 8.5 for additional suction tubes.

