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CLAMPS GASTROINTESTINAL

GENERAL

	GLASSMAN Non-Crushing Gastrointestinal Clamps.		
37-4017	Angled		
	Length	9"	(22.9cm)
37-4018	Straight		
	Length	9¼"	(23.5cm)



CLAMPS NON-CRUSHING ANTERIOR RESECTION

	GLASSMAN Non-Crushing Anterior Resection Clamps, at right angle.		
	Length	9¼"	(23.5cm)
37-4004	Jaw length	1"	(2.5cm)
37-4005	Jaw length	2"	(5.1cm)
37-4006	Jaw length	3"	(7.6cm)



CLAMPS, ORTHOPEDIC MENISCUS

	MENISCUS Clamp		
	12 Sharp pins in one jaw with 12 matching holes in other jaw provide grip for dissection and removal of meniscus.		
37-4007	1x2 teeth at tips of jaw, curved chank	7½"	(18.1cm)



CLAMPS TOWEL



BACKHAUST™ CLASSIC® Towel Clamps Bright Finish			
33-5000	Length	3½"	(89mm)
33-5005	Length	5½"	(140mm)



EDNA™ CLASSIC® Towel Clamps, non-perforating. Bright Finish			
33-5016	Length	3½"	(89mm)
33-5015	Length	5½"	(140mm)



CODMAN Disposable Towel Clamps, plastic			
19-4137	Length	2¾"	(70mm)
Sterile, 6 clamps to package, 24 packages to case.			
19-4141	Non-sterile. Bulk pack of 432.		

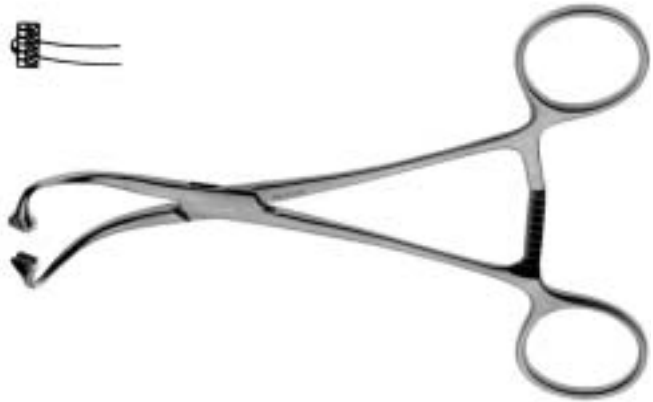


19-1016	JONES Towel Clamp, cross-action.		
	Length	3½"	(89mm)

CLAMPS TOWEL

GENERAL

19-4146 PEERS Towel Clamp, non-perforating.
Length 5 $\frac{3}{4}$ " (146mm)



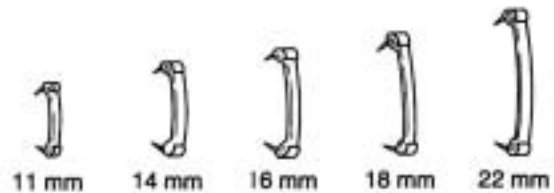
19-4012 ROEDER Towel Clamp, ball stops.
Length 5 $\frac{1}{4}$ " (133mm)



CLIPS WOUND

MICHEL Wound Clips, nickel silver.
1000 clips/package.
Use with 20-6001, 20-6002, and 20-6005 Clip
Applying Forceps.

20-4000 11mm
20-4001 14mm
20-4002 16mm
20-4003 18mm
20-4004 22mm



CLIPS WOUND



20-6001 MICHEL Wound Clip Removing Forceps
Length 5¼" (133mm)



20-6002 MICHEL Wound Clip Applying and
Removing Forceps
Length 5" (127mm)



20-6005 HEGENBARTH Wound Clip Applying and
Removing Forceps
Length 5" (127mm)

DILATORS

GENERAL

25-4005	BAKES Common Duct Dilators, set of nine in blue vinyl roll. BAKES Dilators, single sizes.		
25-4006	Tip		(3mm)
	Length	7"	(178mm)
25-4007	Tip		(4mm)
	Length	7"	(178mm)
25-4008	Tip		(5mm)
	Length	7"	(178mm)
25-4009	Tip		(6mm)
	Length	7¼"	(184mm)
25-4010	Tip		(7mm)
	Length	7¼"	(184mm)
25-4011	Tip		(8mm)
	Length	7¼"	(184mm)
25-4012	Tip		(9mm)
	Length	7½"	(191mm)
25-4013	Tip		(10mm)
	Length	7½"	(191mm)
25-4014	Tip		(11mm)
	Length	7¾"	(197mm)

Dilator sizes are given in French gauge.



25-4002	DELABORDE Tracheal Dilator, tri-valve.		
	Jaw width	3/16"	(5mm)
	Jaw thickness	1/4"	(6mm)
	Total spread	1 15/16"	(33mm)
	Length	5 1/4"	(133mm)



25-4000	TROUSSEAU Tracheal Dilators, bi-valve.		
	Jaw width (closed)	1/4"	(6mm)
	Jaw thickness	3/16"	(5mm)
	Total spread	1 1/2"	(38mm)
	Length	5 1/2"	(140mm)
25-5569	Jaw width (closed)	1/8"	(3mm)
	Jaw thickness	1/8"	(3mm)
	Total spread	1 1/4"	(32mm)
	Length	5 1/4"	(133mm)



DISPOSABLES CLAMPS



CODMAN Disposable Towel Clamps, plastic
Length 2¾" (70mm)
19-4137 Sterile, 6 clamps to package, 24 packages to case.
19-4141 Non-sterile. Bulk pack of 432.

DISPOSABLES LUBRICANT



43-1033 CODMAN PRESERVE® Instrument Lubricant Concentrate, anti-microbial lubricant, supplied 4 gallons per case. Dilute 1 gallon PRESERVE® to 6 U.S. gallons of distilled or demineralized water.

DISPOSABLES MARKING PENS

GENERAL

43-1030 CODMAN Surgical Marker, gentian violet dye, regular tip, sterile, disposable, packaged with 6" ruler, 36 per case.



43-1032 CODMAN Surgical Marker, gentian violet dye, sterile, disposable, with 6" ruler, 36 per case. Micro tip



DISPOSABLES MARKING TAPE

SURG-I-BAND* Instrument Marking Tape.
1/4" (.64cm) x 244" (620cm) roll.

43-4020 Black
43-4021 Blue
43-4022 Brown
43-4023 Green
43-4024 Orange
43-4025 Red
43-4026 White
43-4027 Yellow



DISPOSABLES SPONGES



-
- 81-1000** PEANUT SECTO™ Dissectors, sterile, X-ray detectable, diameter $\frac{3}{8}$ " (9.5mm). 96 packages of 5 each, 4 dispenser boxes to case.
 - 81-1001** KITTNER SECTO™ Dissectors, sterile, X-ray detectable, diameter $\frac{1}{16}$ " (7.9mm). Length $\frac{5}{8}$ " (16mm). 96 packages of 5 each, 4 dispenser boxes to case.
 - 81-1002** CHERRY SECTO™ Dissectors, sterile, X-ray detectable, diameter $\frac{3}{8}$ " (9.5mm). 96 packages of 5 each, 4 dispenser boxes to case.
 - 81-1006** TRIANGLE SECTO™ Dissectors, sterile, X-ray detectable, diameter $\frac{1}{2}$ " (13mm). 96 packages of 5 each, 4 dispenser boxes to case.
-

DISPOSABLES SPONGES

GENERAL

TONSIL SECTO™ Sponges, sterile, X-ray detectable. 5 per card; 25 pouches per dispenser box; 2 dispenser boxes per case.

81-1010	Diameter	5/8"	(16mm)
81-1011	Diameter	1"	(25 mm)
81-1012	Diameter	1 1/4"	(32mm)
	Cord length on all sizes	10"	(254mm)



81-1010



81-1011



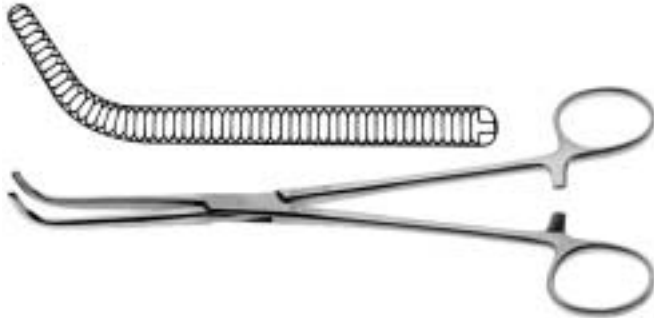
81-1012

DISPOSABLES VEIN STRIPPERS

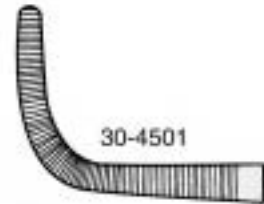
63-4031	CODMAN Disposable Vein Stripper, sterile, 12 packages per box. Each package includes three olives (small, medium, large), one handle, and two stripper cables.		
	Cable length	36"	(914mm)
	Olive diameters		
	Small	3/8"	(10mm)
	Medium	1/2"	(13mm)
	Large	5/8"	(16mm)



FORCEPS, RING HANDLE GALLBLADDER



30-4297 JOHNS HOPKINS Gallbladder Forceps, curved.
Length 8" (203mm)



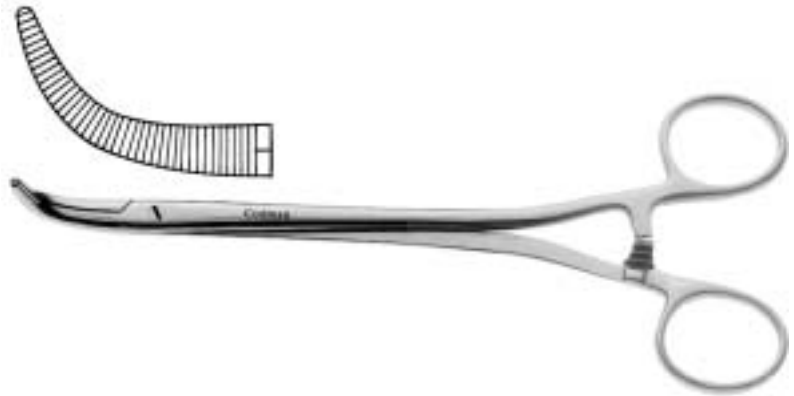
30-4501 LAHEY Gall Duct Forceps
Cross serrations
Length 7½" (191mm)
30-4500 Longitudinal serrations
Length 7½" (191mm)
30-4502 Length 8¾" (222mm)



30-4080 MIXTER Gallbladder Forceps, curved.
Length 6¼" (159mm)
30-4081 Length 7" (178mm)

FORCEPS, RING HANDLE GALLBLADDER

GENERAL



30-4295 MOYNIHAN Gall Duct Forceps, curved.
Length 8½" (216mm)

30-4652 VARCO Gallbladder Forceps
Length 7½" (191mm)
Slightly curved



FORCEPS, RING HANDLE HEMOSTATIC

30-1010 ADSON Hemostatic Forceps
Length 7¼" (184mm)
Straight
30-1011 Curved



FORCEPS, RING HANDLE HEMOSTATIC



30-4464 ADSON CLASSIC® DELICATE
Hemostatic Forceps, curved.
Length 7¼" (184mm)



32-4043 BARNES-CRILE CLASSIC® Hemostatic
Forceps
Length 6¼" (159mm)
Bright Finish
Curved



30-4035 COLLER Hemostatic Forceps, curved.
Length 6¼" (159mm)

FORCEPS, RING HANDLE HEMOSTATIC

GENERAL

CRILE CLASSIC® Hemostatic Forceps

Bright Finish				
33-4030	Straight	Length	5½"	(140mm)
33-4031	Curved	Length	5½"	(140mm)
33-4040	Straight	Length	6¼"	(159mm)
33-4041	Curved	Length	6¼"	(159mm)
Low-Glare Finish				
34-4030	Straight	Length	5½"	(140mm)
34-4031	Curved	Length	5½"	(140mm)
34-4040	Straight	Length	6¼"	(159mm)
34-4041	Curved	Length	6¼"	(159mm)



CRILE Hemostatic Forceps Standard Line

32-4030	Straight	Length	5½"	(140mm)
32-4031	Curved	Length	5½"	(140mm)
32-4040	Straight	Length	6¼"	(159mm)
32-4041	Curved	Length	6¼"	(159mm)



DANDY™ Scalp Hemostatic Forceps, curved on side.

		Length	5½"	(140mm)
		Bright Finish		
32-4160	Serrated			
32-4161	1 x 2 teeth			



FORCEPS, RING HANDLE HEMOSTATIC



CRILE CLASSIC® DELICATE
Hemostatic Forceps
Length 5½" (140mm)
30-4467 Straight
30-4468 Curved



MAGNAFREE™ Crile Forceps, Non-Magnetic
(titanium) for Interventional MRI. MRI safe up to
1.5 Tesla.
MRI Crile Forcep, delicate hemostatic forceps
Length 5½" (140mm)
65-2418 Straight
65-2419 Curved

FORCEPS, RING HANDLE HEMOSTATIC

GENERAL

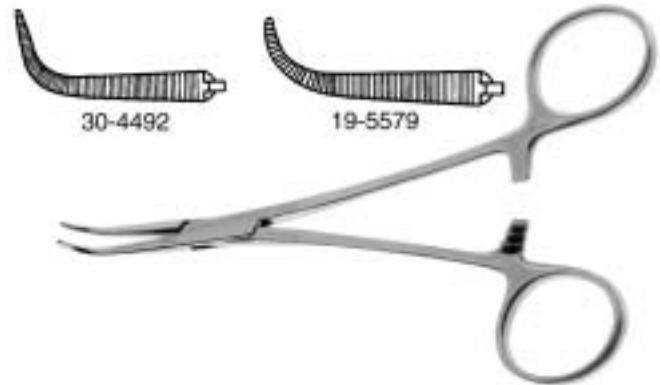


GEMINI Hemostatic Forceps, curved.

19-5580	Length	7"	(178mm)
19-5581	Length	8"	(203mm)
19-5582	Length	9"	(229mm)
19-5583	Length	11"	(279mm)

GEMINI CLASSIC® DELICATE
Hemostatic Forceps

19-5579	Curved	Length	5½"	(140mm)
30-4492	80° angle	Length	7¼"	(184mm)



FORCEPS, RING HANDLE HEMOSTATIC



HALSTED CLASSIC® Mosquito Forceps

Bright Finish

33-3900	Straight	Length	3½"	(90mm)
33-3901	Curved	Length	3½"	(90mm)
33-4000	Straight	Length	5"	(127mm)
33-4001	Curved	Length	5"	(127mm)

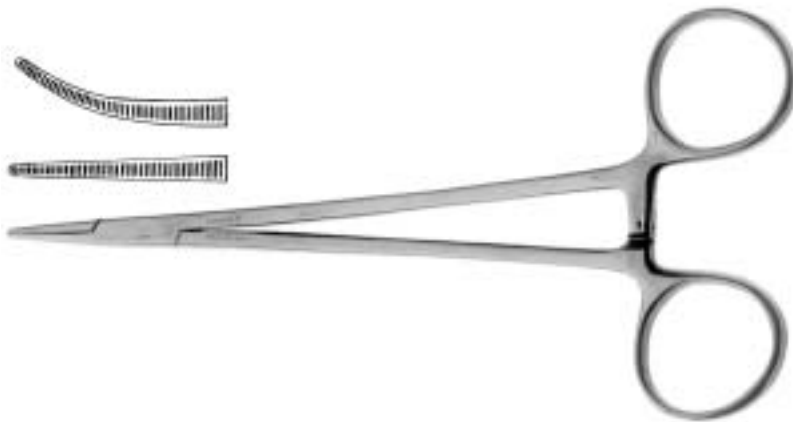
Low-Glare Finish

34-3900	Straight	Length	3½"	(90cm)
34-3901	Curved	Length	3½"	(90cm)
34-4000	Straight	Length	5"	(127mm)
34-4001	Curved	Length	5"	(127mm)

HALSTED Mosquito Forceps

Standard Line

32-3900	Straight	Length	3½"	(90mm)
32-3901	Curved	Length	3½"	(90mm)
32-4000	Straight	Length	5"	(127mm)
32-4001	Curved	Length	5"	(127mm)



HALSTED Hemostatic Forceps

Length 7" (178mm)

30-4038	Straight
30-4039	Curved

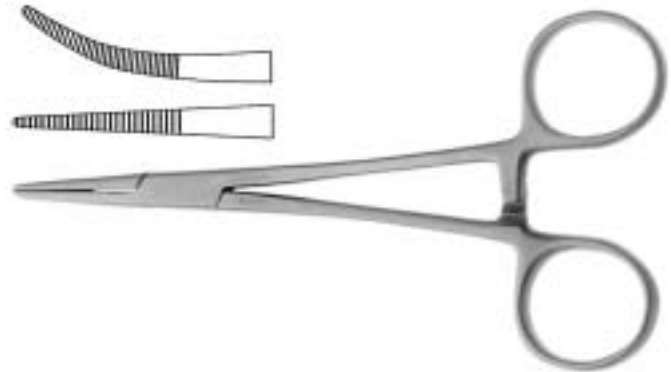
FORCEPS, RING HANDLE HEMOSTATIC

GENERAL

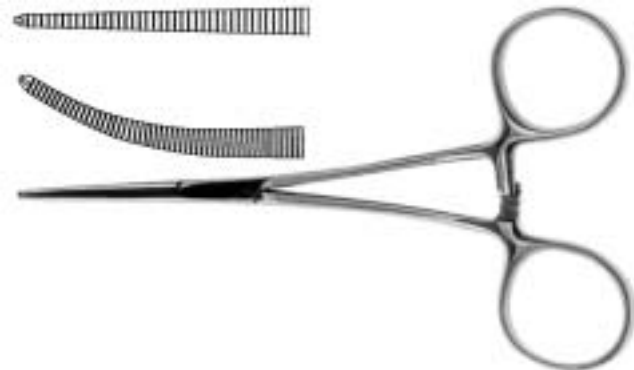
HALSTED Hemostatic Forceps, 1x2 teeth,
Length 5" (127mm)
30-4105 Straight
30-4106 Curved



KELLY CLASSIC® Hemostatic Forceps
Length 5½" (140mm)
Bright Finish
33-4020 Straight
33-4021 Curved
Low-Glare Finish
34-4020 Straight
34-4021 Curved
KELLY Hemostatic Forceps
Standard Line
32-4020 Straight
32-4021 Curved



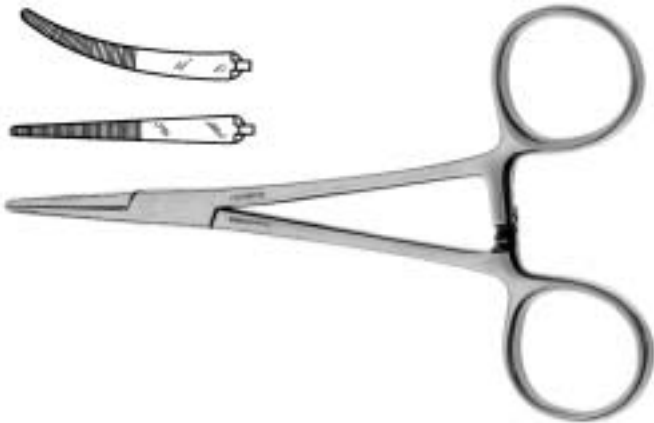
KOCHER CLASSIC® DELICATE Hemostatic
Forceps, 1x2 teeth.
Length 5½" (140mm)
30-4490 Straight
30-4491 Curved



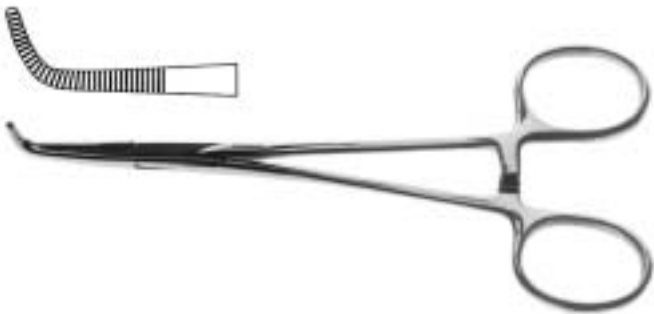
FORCEPS, RING HANDLE HEMOSTATIC



32-4100 KOCHER™ Hemostatic Forceps, 1 x 2 teeth.
Length 5½" (140mm)
Bright Finish
Straight



30-4020 LAHEY Hemostatic Forceps, with full serrations.
Length 6" (146mm)
30-4021 Straight
Curved



30-4485 MIXTER CLASSIC® DELICATE Hemostatic Forceps, right angle.
Length 5¼" (133mm)

FORCEPS, RING HANDLE HEMOSTATIC

GENERAL

MOSQUITO CLASSIC® DELICATE

Hemostatic Forceps

30-4471	Straight	Length	4"	(102mm)
30-4472	Curved	Length	4"	(102mm)
30-4473	Straight	Length	5"	(127mm)
30-4474	Curved	Length	5"	(127mm)
30-4470	Curved	Length	6"	(152mm)



PEAN Hemostatic Forceps, cross-serrations.

Straight

30-4563	Length	9"	(229mm)
	Curved		
30-4565	Length	9"	(229mm)
30-4573	Length	10"	(254mm)
30-8093	Length	12"	(305mm)



PEAN CLASSIC® DELICATE

Hemostatic Forceps, curved.

Length 5½" (140mm)

30-4462	Length	5½"	(140mm)
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PROVIDENCE HOSPITAL™ Hemostatic Forceps

Length 5½" (140mm)

Bright Finish

Curved

32-4011	Length	5½"	(140mm)
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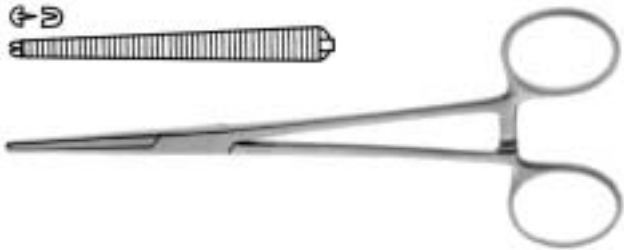
FORCEPS, RING HANDLE HEMOSTATIC



RANKIN™ Hemostatic Forceps			
	Length	6¼"	(159mm)
Bright Finish			
32-4050	Straight		
32-4051	Curved		



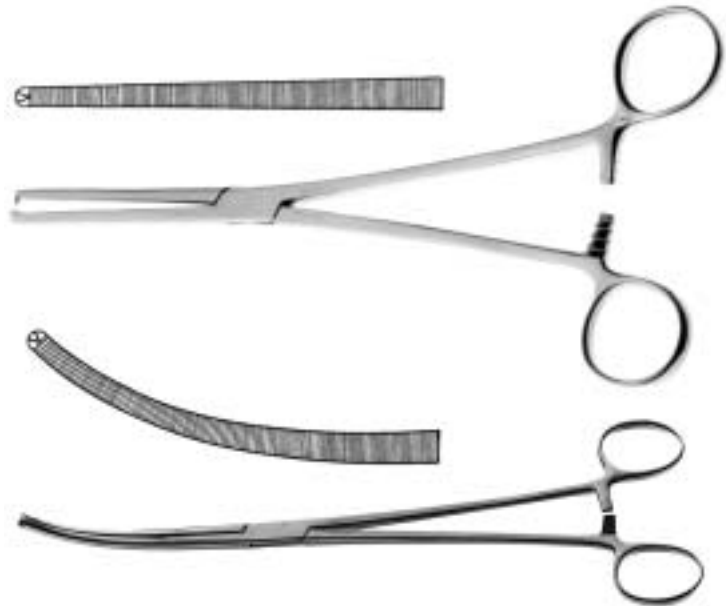
ROCHESTER-CARMALT™ Hemostatic Forceps			
Bright Finish			
32-4141	Curved	Length	6½" (165mm)
32-4151	Curved	Length	8" (203mm)



ROCHESTER-OCHSNER CLASSIC® Hemostatic Forceps, 1x2 teeth.			
Bright Finish			
33-4110	Straight	Length	6¼" (159mm)
33-4120	Straight	Length	7¼" (184mm)
33-4130	Straight	Length	8" (203mm)
Low-Glare Finish			
34-4110	Straight	Length	6¼" (159mm)
34-4120	Straight	Length	7¼" (184mm)
34-4130	Straight	Length	8" (203mm)
ROCHESTER-OCHSNER Hemostatic Forceps, 1x2 teeth.			
Standard Line			
32-4110	Straight	Length	6¼" (159mm)
32-4111	Curved	Length	6¼" (159mm)
32-4120	Straight	Length	7¼" (184mm)
32-4121	Curved	Length	7¼" (184mm)
32-4130	Straight	Length	8" (203mm)
32-4131	Curved	Length	8" (203mm)

FORCEPS, RING HANDLE HEMOSTATIC

GENERAL



ROCHESTER-OGHSNER Hemostatic Forceps,
1x2 teeth.

	Straight			
30-4066	Length	9"	(229mm)	
30-8090	Length	10"	(254mm)	
	Curved			
30-4067	Length	9"	(229mm)	
30-8091	Length	10"	(254mm)	

ROCHESTER-PEAN CLASSIC®
Hemostatic Forceps
Bright Finish

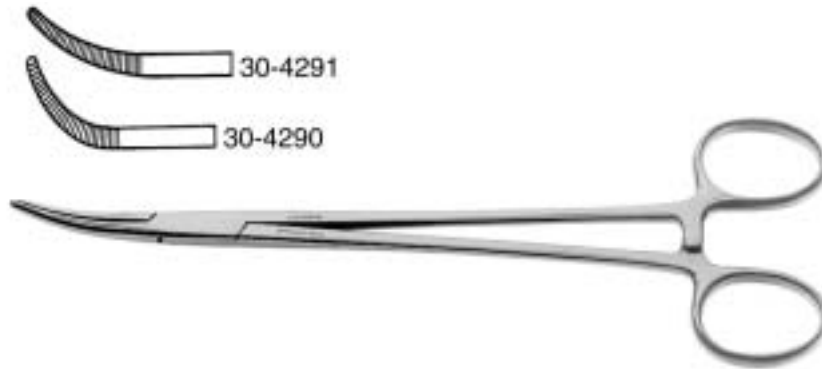
33-4071	Curved	Length	6¼"	(159mm)
33-4081	Curved	Length	7¼"	(184mm)
33-4091	Curved	Length	8"	(203mm)
	Low-Glare Finish			
34-4071	Curved	Length	6¼"	(159mm)
34-4081	Curved	Length	7¼"	(184mm)
34-4091	Curved	Length	8"	(203mm)



ROCHESTER-PEAN
Hemostatic Forceps
Standard Line

32-4061	Curved	Length	5½"	(140mm)
32-4070	Straight	Length	6¼"	(159mm)
32-4071	Curved	Length	6¼"	(159mm)
32-4080	Straight	Length	7¼"	(184mm)
32-4081	Curved	Length	7¼"	(184mm)
32-4090	Straight	Length	8"	(203mm)
32-4091	Curved	Length	8"	(203mm)

FORCEPS, RING HANDLE HEMOSTATIC



	SCHNIDT Hemostatic Forceps	
	Length	7¼" (184mm)
30-4290	Full curved	
30-4291	Slightly curved	



	SKILLMAN Hemostatic Forceps	
	Length	5" (127mm)
30-4008	Straight	
30-4009	Curved	

FORCEPS, RING HANDLE INTESTINAL



19-4056	ALLEN Intestinal Anastomosis Clamp, 1x2 teeth.	
	Jaw Length	2¼" (57mm)
	Total Length	7⅞" (200mm)

FORCEPS, RING HANDLE INTESTINAL

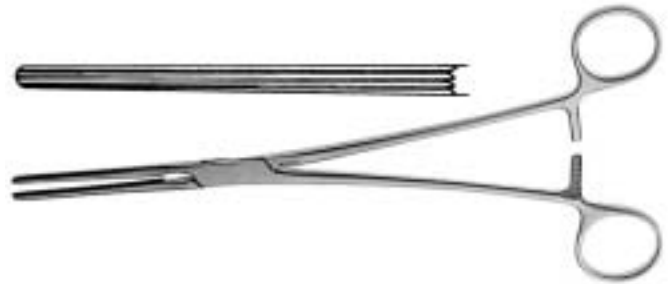
GENERAL

DE MARTEL-WOLFSON Intestinal
Anastomosis
Clamps, set of three of same size.

19-4090	Length	2"	(51mm)
19-4091	Length	3"	(76mm)
19-4092	Length	4"	(102mm)



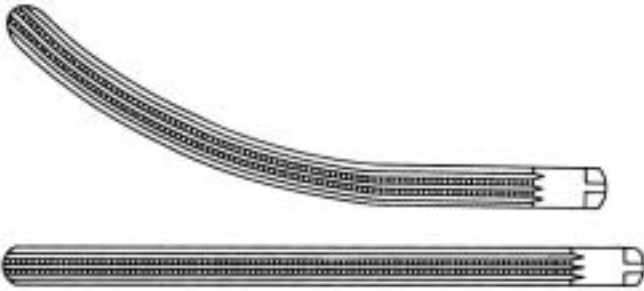
19-4060	DENNIS Intestinal Clamp		
	Jaw length	2¼"	(57mm)
	Total length	9½"	(241mm)



DOYEN Intestinal Forceps, diagonal serrations.
Jaw length 4⅛" (105mm)
Total length 9¼" (235mm)

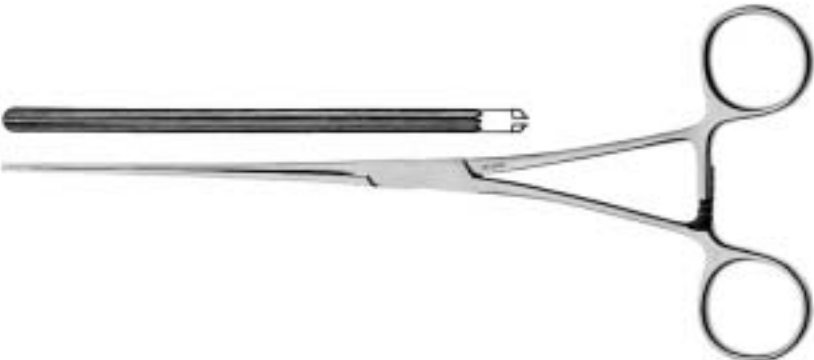
30-4305	Straight
30-4306	Curved

FORCEPS, RING HANDLE INTESTINAL



DOYEN Vascular Toothed Intestinal Clamps,
2x3 vascular teeth.

	Jaw length	3 ³ / ₄ "	(95mm)
	Total length	9"	(229mm)
37-1600	Straight		
37-1601	Curved		



KOCHER Intestinal Forceps,
longitudinal serrations.

30-4300	Straight	Length	11"	(279mm)
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FORCEPS, RING HANDLE INTESTINAL

GENERAL

MASTERS Intestinal Clamps			
19-4061	Jaw length	6½"	(165mm)
	Total length	10¾"	(273mm)
19-4062	Jaw length	4½"	(114mm)
	Total length	9¼"	(235mm)



19-4172	STONE Clamp Applying Forceps		
	Length	6¼"	(159mm)



19-4096	STONE Clamp Locking Device		
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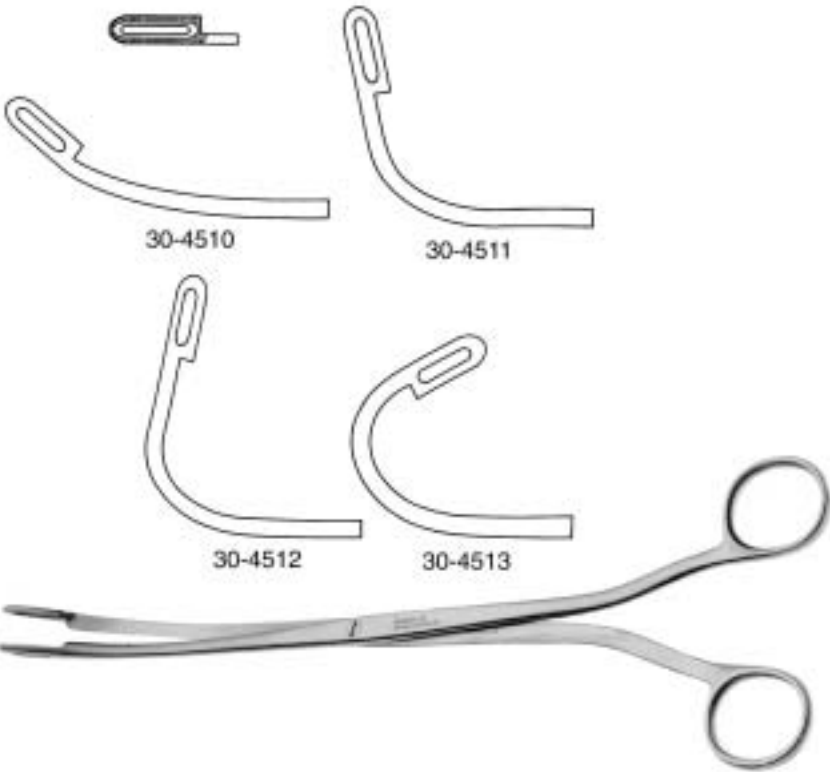
	STONE Intestinal Anastomosis Clamp, longitudinal serrations.		
19-4097	Jaw length	3"	(76mm)
19-4098	Jaw length	4"	(102mm)



FORCEPS, RING HANDLE KIDNEY



19-4018	MAYO (GUYON) Kidney Clamp		
	Jaw Length	3 ¹ / ₁₆ "	(85mm)
	Total Length	9"	(229mm)



	RANDALL Kidney Stone Forceps		
30-4510	Quarter curved		
	Length	9 ¹ / ₄ "	(234mm)
30-4511	Half curved		
	Length	8 ³ / ₄ "	(222mm)
30-4512	Three-quarter curved		
	Length	7 ³ / ₄ "	(197mm)
30-4513	Full curved		
	Length	7 ¹ / ₂ "	(191mm)

FORCEPS, RING HANDLE LIVER



GENERAL

19-4063	MASTERS-SCHWARTZ Liver Clamp		
	Jaw width	1/2"	(13mm)
	Jaw length	7 1/2"	(191mm)
	Total length	12"	(305mm)

FORCEPS, RING HANDLE LUNG

36-6055	DUVAL CLASSIC PLUS® Lung Grasping Forceps, tungsten carbide tip inserts, triangular jaws.		
	Jaw width	3/8"	(10mm)
	Total length	8 1/4"	(210mm)



FORCEPS, RING HANDLE PILE

19-5515	BUIE Pile Clamps		
	Jaw length	2"	(51mm)
	Total length	8 1/2"	(216mm)



FORCEPS, RING HANDLE RIGHT ANGLE



	CLASSIC® DELICATE Right Angle Clamps		
30-4493	Length	5½"	(140mm)
30-4494	Length	7"	(178mm)

FORCEPS, RING HANDLE SPONGE



	SPONGE CLASSIC® Holding Forceps, serrated jaws. Bright Finish		
33-6030	Straight	Length	9" (229mm)
33-6031	Curved	Length	9" (229mm)



	MAGNAFREE™ MRI Sponge Forcep, Non-Magnetic (Titanium) for Interventional MRI. MRI safe up to 1.5 Tesla.		
65-2415	MRI Sponge Holding Forcep, serrated jaws, straight	Length	9½" (241mm)

FORCEPS, RING HANDLE TUBE HOLDING

GENERAL

70-4142 GREENE Tubing Holding Forceps
Length 6½" (165mm)



30-1280 LORE Suction Tube and Tip Holding Forceps
Length 7" (178mm)



FORCEPS, RING HANDLE TISSUE

	ALLIS CLASSIC® Tissue Forceps			
	Low-Glare Finish			
34-7000	4x5 teeth	Length	6"	(152mm)
34-7001	5x6 teeth	Length	6"	(152mm)
34-7010	5x6 teeth	Length	7¼"	(184mm)
	Bright Finish			
33-7000	4x5 teeth	Length	6"	(152mm)
33-7001	5x6 teeth	Length	6"	(152mm)
33-7010	5x6 teeth	Length	7¼"	(184mm)
	ALLIS Tissue Forceps			
	Standard Line			
32-7000	4x5 teeth	Length	6"	(152mm)
32-7001	5x6 teeth	Length	6"	(152mm)
32-7010	5x6 teeth	Length	7¼"	(184mm)



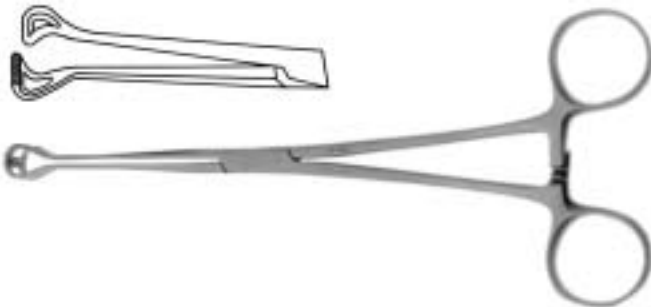
FORCEPS, RING HANDLE TISSUE



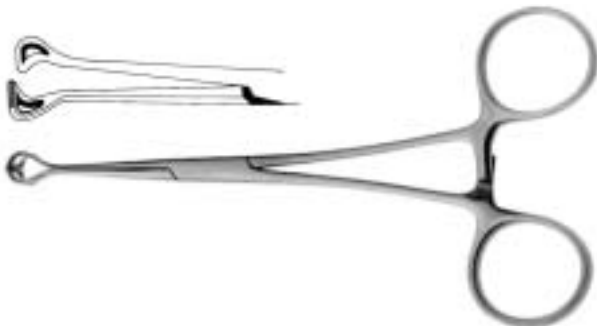
30-4466 ALLIS CLASSIC® DELICATE
Tissue Forceps, 5x6 teeth.
Length 5" (127mm)



30-4542 ALLIS-ADAIR Tissue Forceps, 9x10 teeth.
Length 6" (152mm)



BABCOCK CLASSIC® Tissue Forceps
Bright Finish
33-7020 Length 6¼" (159mm)
33-7025 Length 7¾" (197mm)
33-7030 Length 9½" (242mm)
Low-Glare Finish
34-7020 Length 6¼" (159mm)
34-7025 Length 7¾" (197mm)
34-7030 Length 9½" (242mm)
BABCOCK Tissue Forceps
Standard Line
32-7020 Length 6¼" (159mm)
32-7025 Length 7¾" (197mm)
32-7030 Length 9½" (242mm)

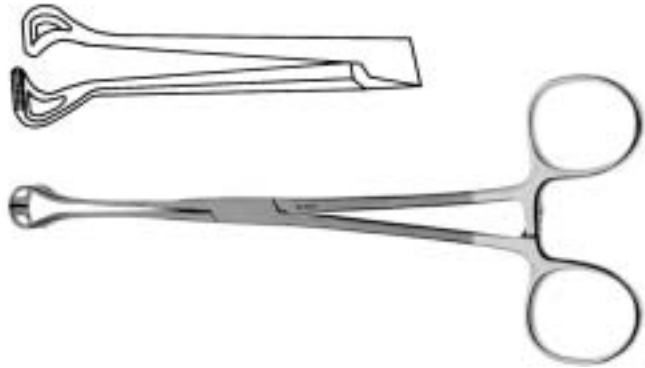


30-4465 BABCOCK CLASSIC® DELICATE
Tissue Forceps
Length 5¾" (146mm)

FORCEPS, RING HANDLE TISSUE

GENERAL

36-6050 BABCOCK CLASSIC PLUS® Tissue Forceps, tungsten carbide jaw inserts.
Length 6½" (165mm)



30-4535 LOCKWOOD-ALLIS Tissue Forceps, 5x6 teeth.
Tip width 3/16" (5mm)
Length 6" (152mm)



19-4000 PENNINGTON Tissue Grasping Forceps
Triangular jaws
Tip width 7/16" (11mm)
Length 5½" (140mm)

19-4001 Triangular jaws
Tip width 7/16" (11mm)
Length 8" (203mm)



30-4095 PRATT T-Shaped Tissue Grasping Forceps
Tip width 5/16" (8mm)
Length 6" (152mm)



FORCEPS, RING HANDLE TISSUE



30-4554	THOMS-ALLIS Tissue Forceps, 6x7 teeth.
Tip width	¼" (6mm)
Length	8½" (216mm)

FORCEPS PYLORUS



61-5505	BENSON Pylorus Spreader
Total opening	3½" (89mm)
Length	6¼" (159mm)

FORCEPS SPLINTER



30-4258	VIRTUS Splinter Forceps
Length	6" (152mm)

FORCEPS SPLINTER

GENERAL

30-4255 WALTER Splinter Forceps
Length 4¼" (108mm)



30-4608 WILLIAMS Splinter Forceps
Length 5½" (140mm)



FORCEPS TENACULUM

30-4088 LAHEY Thyroid Tenaculum Forceps,
3x3 sharp teeth.
Length 6¼" (159mm)

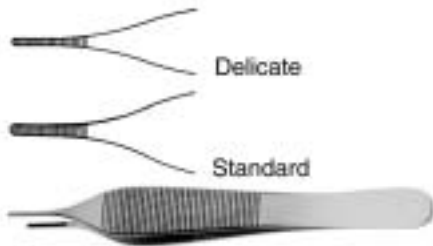


FORCEPS, THUMB DRESSING

30-1190 ADSON Dressing Forceps, standard pattern.
Tip width 2mm
Length 7" (178mm)



FORCEPS, THUMB DRESSING



ADSON Dressing Forceps			
	Length	5"	(127mm)
30-4214	Delicate	Tip width	.8mm
30-1185	Standard	Tip width	1.2mm



30-4208	CHILDREN'S HOSPITAL CLASSIC® DELICATE Dressing Forceps, narrow, serrated tips, dissecting end.		
	Tip width		1.4mm
	Length	5¾"	(146mm)



DRESSING Forceps, serrated.			
30-4133	Tip width		2.2mm
	Length	5"	(127mm)
30-4134	Tip width		2.2mm
	Length	5½"	(140mm)
30-4135	Tip width		2.3mm
	Length	6"	(152mm)
30-4137	Tip width		3.0mm
	Length	8"	(203mm)
30-4138	Tip width		3.0mm
	Length	10"	(254mm)
30-4139	Tip width		3.4mm
	Length	12"	(305mm)



30-4215	EWALD-HUDSON Dressing Forceps, serrated.		
	Tip width		1.7mm
	Length	5"	(127mm)

Tip width is measured 1mm from the instrument tip.

FORCEPS, THUMB DRESSING

GENERAL



	MAGNAFREE™ MRI Dressing Forcep, Non-Magnetic (titanium) for Interventional MRI. MRI safe up to 1.5 Tesla.		
65-2407	MRI Dressing Forcep, serrated		
	Tip Width	3.0mm	
	Length	10"	(254mm)

	POTTS-SMITH Dressing Forceps, serrated.		
30-8020	Tip width	1.4mm	
	Length	7¼"	(184mm)
30-8021	Tip width	1.4mm	
	Length	8¼"	(210mm)
30-8022	Tip width	1.5mm	
	Length	9¾"	(248mm)
30-8122	Tip width	1.6mm	
	Length	12"	(305mm)



30-4517	SINGLEY (TUTTLE) Intestinal Forceps, serrated fenestrated jaws.		
	Length	9"	(229mm)

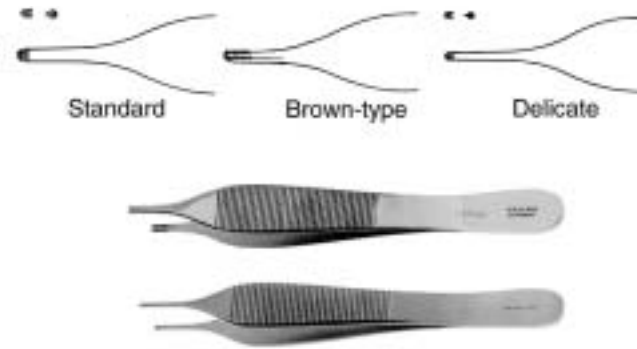


FORCEPS, THUMB TISSUE

36-6000	ADSON CLASSIC PLUS® Tissue Forceps, with tungsten carbide tip inserts.		
	Tip width	2mm	
	Length	4¾"	(121mm)



FORCEPS, THUMB TISSUE

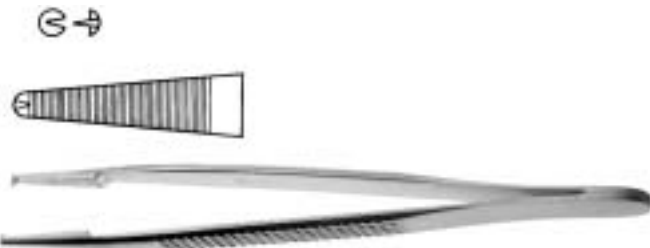


ADSON Tissue Forceps		
30-4218	Delicate pattern, 1x2 teeth	
	Tip width	.7mm (127mm)
	Length	5" (127mm)
	Standard pattern, 1x2 teeth	
30-1186	Tip width	1.2mm (127mm)
	Length	5" (127mm)
30-1187	Standard pattern, 2x3 teeth	
	Tip width	1.8mm (127mm)
30-1188	Length	5" (127mm)
	Tip width	3mm (178mm)
30-1188	Length	7" (178mm)
	Brown-type teeth	
30-1189	Tip width	1.7mm (127mm)
	Length	5" (127mm)

Tip width is measured 1mm from the instrument tip.



65-2413	MAGNAFREE™ MRI Adson Tissue Forcep, Non-Magnetic (Titanium) for intraoperative MRI. MRI safe up to 1.5 Tesla.	
	MRI Adson Tissue Forcep, 1x2 teeth	
	Length	5" (127mm)



30-1129	BONNEY Tissue Forceps, 1x2 teeth.	
	Tip width	3mm (171mm)
	Length	6¾" (171mm)



30-4239	BRIGHAM Tissue Forceps, 1x2 teeth, dissecting end.	
	Tip width	2.2mm (140mm)
	Length	5½" (140mm)

FORCEPS, THUMB TISSUE

GENERAL



	BROWN Tissue Forceps, parallel multiple teeth.		
30-4200	Tip width		2.2mm
	Length	6¼"	(159mm)
30-4201	Tip width		3.1mm
	Length	8"	(203mm)
30-4202	Tip width		3.4mm
	Length	10"	(254mm)

30-4208	CHILDREN'S HOSPITAL CLASSIC® DELICATE Dressing Forceps, narrow, serrated tips, dissecting end.		
	Tip width		1.4mm
	Length	5¾"	(146mm)

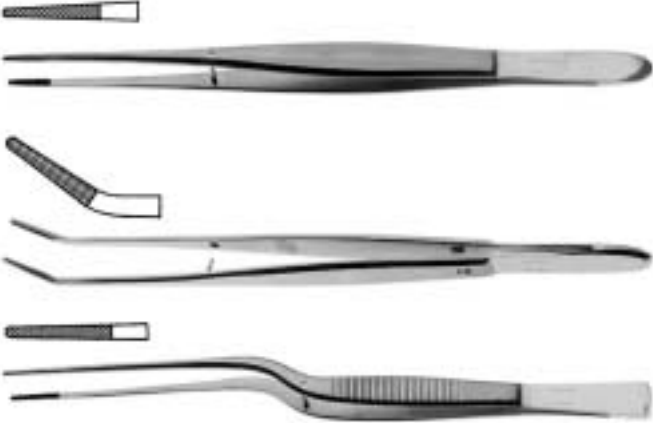


36-6010	CODMAN CLASSIC PLUS® General Surgery Tissue Forceps, tungsten carbide tip inserts.		
	Tip width		1.8mm
	Length	6"	(152mm)



Tip width is measured 1mm from the instrument tip.

	CUSHING CLASSIC PLUS® Tissue Forceps, with tungsten carbide inserts.		
	Tip width		1.4mm
	Length	7"	(178mm)
36-6005	Straight		
36-6006	Angled		
36-6007	Bayonet tissue		
	Working distance	3"	(76mm)
	Length	7¾"	(197mm)



FORCEPS, THUMB TISSUE



36-6020	EVANS CLASSIC PLUS® Tissue Forceps, tungsten carbide inserts.		
	Tip width		2mm
	Length	10"	(254mm)



30-4216	EWALD-HUDSON Tissue Forceps, 1x2 teeth.		
	Tip width		1.6mm
	Length	5"	(127mm)



	MARTIN Tissue Forceps, multiple teeth.		
	Tip width		6mm
30-4230	Length	6"	(152mm)
30-4231	Length	7"	(178mm)



30-8112	MAYO-RUSSIAN Tissue Forceps, fenestrated jaws.		
	Tip width		6mm
	Length	9"	(229mm)

Tip width is measured 1mm from the instrument tip.



30-4517	SINGLEY (TUTTLE) Intestinal Forceps, serrated fenestrated jaws.		
	Length	9"	(229mm)

FORCEPS, THUMB TISSUE

GENERAL



36-6015	POTTS-SMITH CLASSIC PLUS® Tissue Forceps, tungsten carbide inserts.		
	Tip width		1.5mm
	Length	9"	(229mm)

	POTTS-SMITH Tissue Forceps, 1x2 teeth.		
30-8023	Tip width		1.7mm
	Length	7¼"	(184mm)
30-8024	Tip width		1.7mm
	Length	8¼"	(210mm)
30-8123	Tip width		1.8mm
	Length	12"	(305mm)



	RUSSIAN Tissue Forceps		
30-4220	Tip width		6mm
	Length	6"	(152mm)
30-4221	Tip width		7mm
	Length	7¾"	(197mm)
30-4222	Tip width		7.2mm
	Length	10"	(254mm)



	TICKNER CLASSIC PLUS® Tissue Forceps, tungsten carbide inserts.		
36-6030	Tip width		1.8mm
	Length	6"	(152mm)



Tip width is measured 1mm from the instrument tip.

FORCEPS, THUMB TISSUE



TISSUE Forceps, 1x2 teeth.			
30-4151	Tip width		2.3mm
	Length	5"	(127mm)
30-4152	Tip width		2.3mm
	Length	5½"	(140mm)
30-4153	Tip width		2.3mm
	Length	6"	(152mm)
30-4155	Tip width		3.0mm
	Length	8"	(203mm)
30-4156	Tip width		3.1mm
	Length	10"	(254mm)
30-4157	Tip width		3.9mm
	Length	12"	(305mm)



TISSUE Forceps, 2x3 teeth.			
30-4161	Tip width		3.9mm
	Length	5½"	(140mm)

FORCEPS, THUMB TISSUE

GENERAL

65-2420

MAGNAFREE™ MRI Tissue Forcep, Non-Magnetic (Titanium) for Intraoperative MRI, MRI safe up to 1.5 Tesla
MRI Tissue Forcep, 2x3 teeth
Tip Width 3.9mm
Length 5½" (140mm)



HANDLES KNIFE

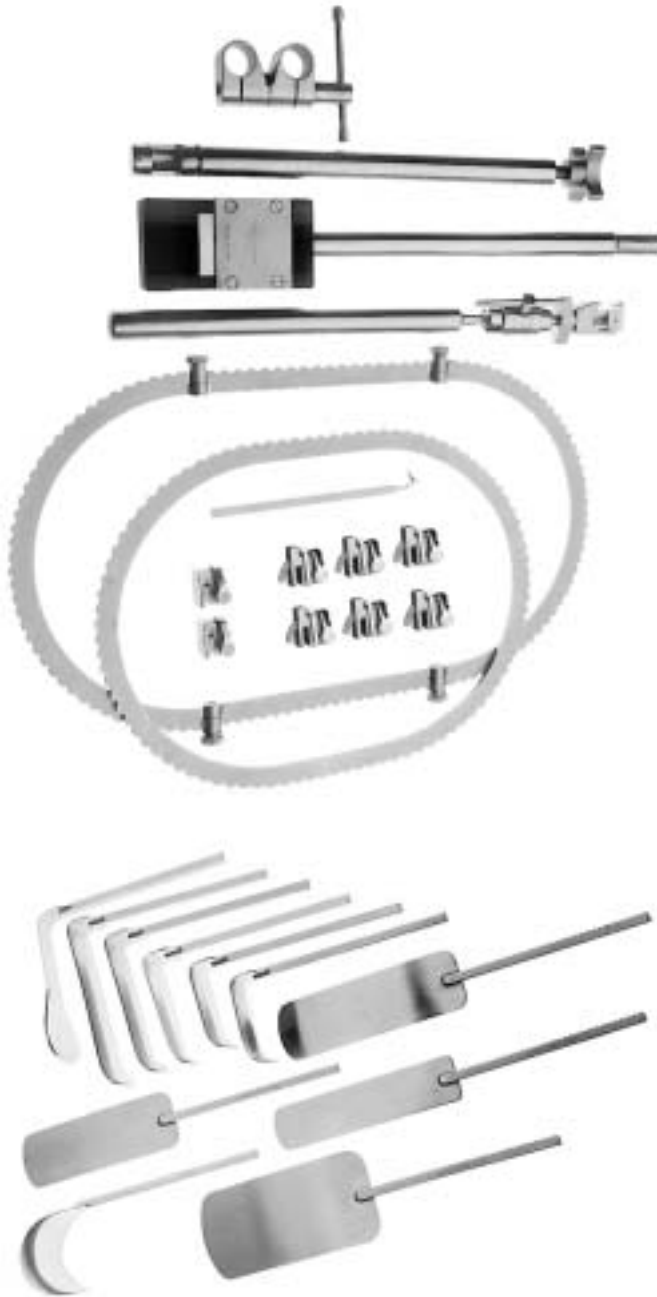
KNIFE Handles				
11-5530	No. 3	Length	4⅞"	(124mm)
11-5531	No. 4	Length	5¼"	(133mm)
11-5534	No. 7	Length	6¼"	(159mm)
11-5535	No. 3 long	Length	8⅜"	(213mm)



Knife blade No. 10, 11, 12, and 15 fit handle No. 3, 7 and 3 Long.
Knife blade No. 20, 21, 22, 23 and 24 fit handle No. 4

KITS

BOOKWALTER RETRACTOR



- 50-4542** BOOKWALTER Retractor Kit II
Includes:
 - 50-4581** Table Post
 - 50-4552** Horizontal Bar
 - 50-4554** 1" Post Coupling
 - 50-4557** Medium Oval Ring
 - 50-4561** 2" x 6" Malleable Retractors (2 ea.)
51mm x 152mm
 - 50-4568** 2" x 3" Kelly Retractors (2 ea.)
51mm x 76mm
 - 50-4569** 2" x 4" Kelly Retractor
51mm x 101mm
 - 50-4576** Balfour Retractor
 - 50-4579** Ratchet Mechanisms (2 ea.)
 - 50-4580** Tilt Ratchet Mechanisms (6 ea.)
 - 50-4583** Segmented Ring
 - 50-4562** 1½" x 6" Malleable Retractor
38mm x 152mm
 - 50-4567** 3" x 6" Malleable Retractor
76mm x 152mm
 - 50-4570** 2" x 5" Kelly Retractor
51mm x 127mm
 - 50-4571** 2" x 6" Kelly Retractor
51mm x 152mm
 - 50-4582** Horizontal Flex Bar
 - 50-4566** Harrington Retractor
 - 50-4577** Gelpi Retractor
 - Accessories:**
 - 50-4507** Table Fixation & Ring Case
 - 50-4508** Blades & Accessories Case
(see Trays, Bookwalter)
-

KITS

BOOKWALTER RETRACTOR RECTAL

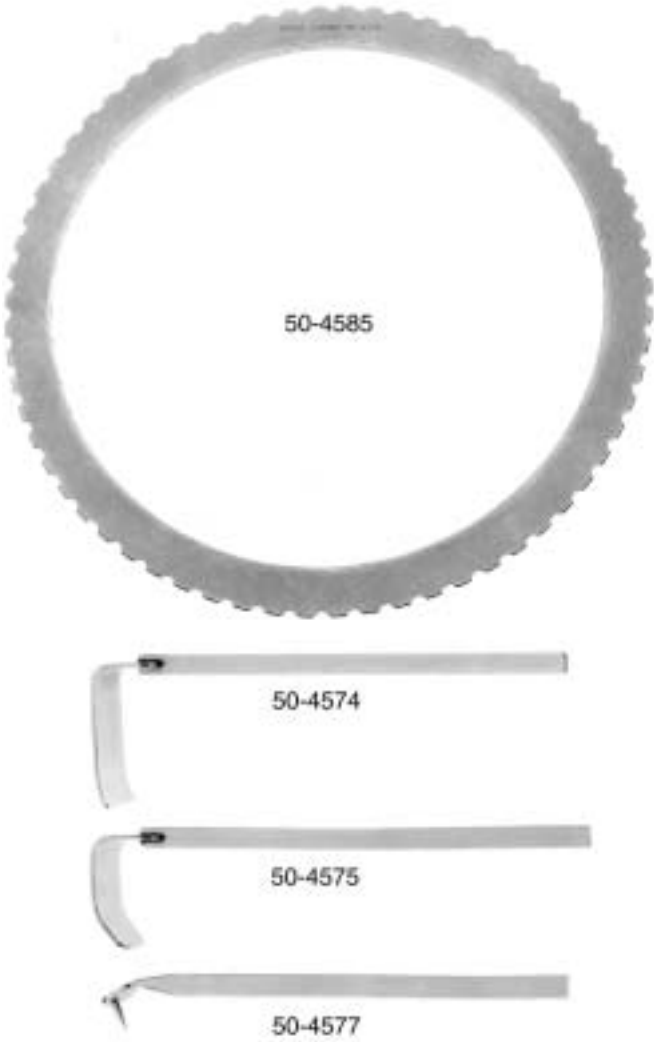
GENERAL

-
- 50-4546** BOOKWALTER Rectal Kit
includes:
- 50-4584** BOOKWALTER Small Round Ring
8½" I.D. (216mm)
- 50-4585** BOOKWALTER Rectal Blades small (2 ea.)
Length 2.85" (72mm) Width .850" (21.5mm)
Depth of Curvature .455" (11.5mm)
- 50-4586** BOOKWALTER Rectal Blades large (2 ea.)
Length 3.86" (98mm) Width .867" (22.0mm)
Depth of Curvature .580" (15.0mm)
-



KITS

BOOKWALTER RETRACTOR-SMALL INCISION



-
- 50-4578** BOOKWALTER Small Incision kit
Includes:
 - 50-4584** BOOKWALTER Small Round Ring
88½" I.D. (216mm)
 - 50-4577** GELPI Point Blade
 - 50-4574** KELLY Blade 1" x 1½" (25mm x 38mm)
 - 50-4575** KELLY Blade 1" x 2½" (25mm x 63mm)
Also Available (not pictured)
 - 50-4563** KELLY Blade
Width 2" (51mm)
-

MAGRINA-BOOKWALTER RETRACTOR VAGINAL

- 50-4547** MAGRINA BOOKWALTER Vaginal Retractor
Includes:
- 50-4590** Vaginal Retractor Ring I.D. 8" x 10½" (203mm x 206mm)
- 50-4591** Lateral Retractor Blade (2 ea) 1" x 3" (25mm x 89mm)
- 50-4592** Deaver Blade, Small 1" x 3½" (25mm x 89mm)
- 50-4593** Deaver Blade, Large 1" x 5" (25mm x 127mm)
- 50-4594** Posterior Blade 1" x 4½" (114mm)
- 50-4554** Post Coupling 1"
- 50-4582** Horizontal Flex Bar
- 50-4581** Table Post 1"
- 50-4580** Tilt Ratchet Mechanism (4 ea)

NOTE: Refer to Retractors, Table Fixed in the GENERAL section of this catalog for individual product descriptions.



LUBRICANT

- 43-1033** CODMAN PRESERVE® Instrument Lubricant Concentrate, anti-microbial lubricant, supplied 4 gallons per case. Dilute 1 gallon PRESERVE® to 6 U.S. gallons of distilled or demineralized water.



MARKING PENS



43-1030 CODMAN Surgical Marker, gentian violet dye, regular tip, sterile, disposable, packaged with 6" ruler, 36 per case.



43-1032 CODMAN Surgical Marker, gentian violet dye, sterile, disposable, with 6" ruler, 36 per case. Micro tip

NEEDLE HOLDERS



36-2010 BAUMGARTNER CLASSIC PLUS® Needle Holder, tungsten carbide jaw inserts.
Length 5" (127mm)



BAUMGARTNER Needle Holders
64-2510 Length 5" (127mm)
64-2511 Length 5½" (140mm)



CASTROVIEJO CLASSIC PLUS® Needle Holders, with catch, tungsten carbide jaw inserts.
36-1000 Length 5½" (140mm)
36-1002 Length 7" (178mm)
36-1001 Length 8½" (216mm)

NEEDLE HOLDERS

CASTROVIEJO MICROSURGICAL CLASSIC PLUS® Needle Holders, smooth tungsten carbide jaw inserts.

36-1006	With catch	Length	5½"	(140mm)
36-1008	With catch	Length	7"	(178mm)
36-1007	With catch	Length	8½"	(216mm)



CRILE-WOOD CLASSIC PLUS® Needle Holders, tungsten carbide jaw inserts.

36-2000	Length	6"	(152mm)
36-2001	Length	7"	(178mm)
36-2002	Length	8"	(203mm)
36-2003	Length	9"	(229mm)
36-2004	Length	10"	(254mm)
36-2005	Length	12"	(305mm)



64-2509	CRILE-WOOD Needle Holder	Length	6"	(152mm)
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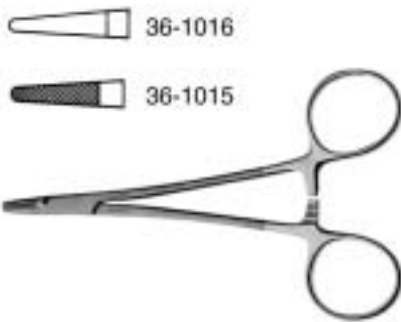
36-1010	DERF CLASSIC PLUS® Needle Holder, tungsten carbide jaw inserts.	Length	5"	(127mm)
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NEEDLE HOLDERS



64-2570 DERF Needle Holder
Length 5" (127mm)



HALSEY CLASSIC PLUS®
Needle Holders, tungsten carbide
jaw inserts.
Length 5" (127mm)
36-1015 Serrated jaws
36-1016 Smooth jaws
HALSEY smooth jaw Needle Holder also known
as WEBSTER smooth jaw Needle Holder.



64-6558 HALSEY Needle Holder, smooth jaws.
Length 5" (127mm)



36-4010 HEANEY CLASSIC PLUS®
Needle Holder, tungsten carbide jaw inserts,
curved tip.
Length 8¼" (210mm)

NEEDLE HOLDERS

GENERAL

64-2595 HEANEY Needle Holder, standard, curved tip.
Length 8¼" (210mm)



36-3042 JULIAN CLASSIC PLUS® Needle Holders, tungsten carbide jaw inserts.
Length 8¼" (210mm)
36-3043 Straight
Curved



65-2414 MAGNAFREE™ MRI Mayo-Hegar Needle Holder, non-magnetic (titanium) for Interventional MRI. MRI safe up to 1.5 Tesla.
Length 7" (178mm)



36-2015 MAYO-HEGAR CLASSIC PLUS® Needle Holders, tungsten carbide jaw inserts. Length 5" (127mm)
36-2016 Length 6" (152mm)
36-2017 Length 7" (178mm)
36-2018 Length 8" (203mm)
36-2019 Length 10" (254mm)
36-2020 Length 12" (305mm)



NEEDLE HOLDERS



MAYO-HEGAR Needle Holders			
64-2512	Length	6"	(152mm)
64-2513	Length	7"	(178mm)
64-2503	Length	8"	(203mm)



MICROVASCULAR CLASSIC PLUS® Needle Holders, tungsten carbide jaw inserts.			
36-3010	Length	7"	(178mm)
36-3011	Length	9"	(229mm)



36-4000	OLSEN-HEGAR CLASSIC PLUS® Needle Holder and scissors, tungsten carbide jaw inserts.		
	Length	5½"	(140mm)

NEEDLE HOLDERS

GENERAL



ROGERS CLASSIC PLUS® Needle Holders,
tungsten carbide jaw inserts, curved jaws.

36-4012	Length	8"	(203mm)
36-4011	Length	10½"	(267mm)

36-2024	RUBIO CLASSIC PLUS® Needle Holder, tungsten carbide jaw inserts, serrated jaw, offset handles. Tip 1.14mm.		
	Length	7⅝"	(194mm)



36-2023	RUBIO CLASSIC PLUS® Wire Holding Clamp, tungsten carbide jaw inserts.		
	Length	5"	(127mm)

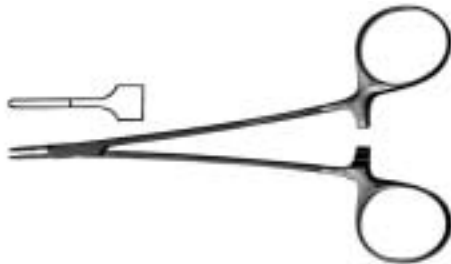


NEEDLE HOLDERS



RYDER CLASSIC PLUS® Needle Holders
tungsten carbide jaw inserts.
Serrated Jaw

36-3023	Jaw width	(1mm)
	Total length	5" (121mm)
36-3014	Jaw width	(1mm)
	Total length	6" (152mm)
36-3012	Jaw width	(1mm)
	Total length	7" (178mm)
36-3015	Jaw width	(1mm)
	Total length	8" (203mm)
36-3013	Jaw width	(1mm)
	Total length	9" (229mm)



RYDER CLASSIC PLUS® Needle Holders,
tungsten carbide jaw inserts.
Smooth Jaw

36-3022	Jaw width	(1mm)
	Total length	5" (121mm)
36-3007	Jaw width	(1mm)
	Total length	6" (152mm)
36-3008	Jaw width	(1mm)
	Total length	7" (178mm)
36-3009	Jaw width	(1mm)
	Total length	9" (229mm)



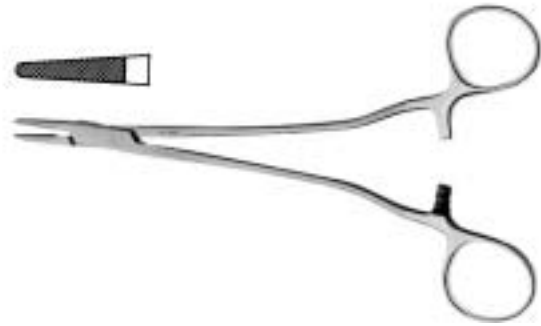
RYDER CLASSIC PLUS® Needle Holders,
tungsten carbide jaw inserts, serrated jaw.
Tip size 1.5mm.

36-3000	Jaw width	(2mm)
	Total length	5" (127mm)
36-3001	Jaw width	(2mm)
	Total length	6" (152mm)
36-3002	Jaw width	(2mm)
	Total length	7" (178mm)
36-3003	Jaw width	(2mm)
	Total length	8" (203mm)
36-3004	Jaw width	(2mm)
	Total length	9" (229mm)
36-3005	Jaw width	(2mm)
	Total length	10" (254mm)

NEEDLE HOLDERS

GENERAL

	SAROT CLASSIC PLUS® Needle Holders, tungsten carbide jaw inserts.		
36-3020	Length	7"	(178mm)
36-3021	Length	10"	(254mm)



36-2025	STERNAL CLASSIC PLUS® Needle Holder and Wire Twister, tungsten carbide jaw inserts.		
	Length	7"	(178mm)



36-4015	STRATTE CLASSIC PLUS® Needle Holder, tungsten carbide jaw inserts, curved jaw.		
	Length	9"	(229mm)



NEEDLE HOLDERS



36-4020 WANGENSTEEN CLASSIC PLUS®
Needle Holder, tungsten carbide jaw inserts.
Length 10½" (267mm)



37-4029 WEBSTER Needle Holder, smooth jaw,
tungsten carbide inserts.
Length 4¾" (12.1cm)

PLIERS



37-4102 PLIERS
Length 6½" (17cm)

PLIERS

37-4100	NEEDLE NOSE Pliers		
	Length	6¼"	(16cm)



GENERAL

PROBES

	BOWMAN Lachrymal Probes, double-ended, malleable, silver.		
	Length	4⅞"	(124mm)
49-6500	0000-000		
49-6501	00-0		
49-6502	1-2		
49-6503	3-4		
49-6504	5-6		
49-6505	7-8		



	PROBES with eye.		
49-4030	Length	4½"	(114mm)
49-4031	Length	5"	(127mm)
49-4032	Length	5½"	(140mm)
49-4033	Length	6"	(156mm)
49-4035	Length	8"	(203mm)
49-4037	Length	10"	(254mm)



PROCTOSCOPE

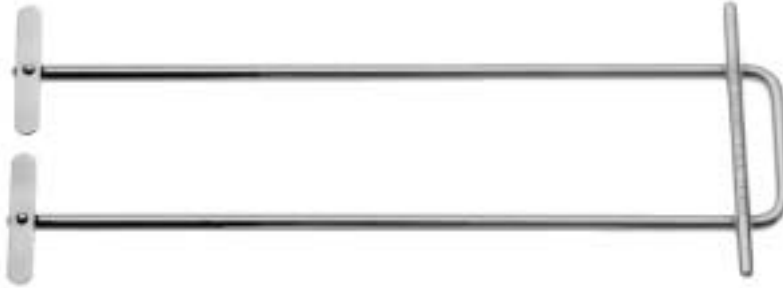
79-5555	FANSLER Proctoscope		
	Inside diameter	1⅜"	(35mm)
	Length (shield)	2½"	(64mm)



RACKS, HOLDERS INSTRUMENT STERILIZING



28-4008	BUNTS Forceps Holder, one dozen per package.		
	Length	3 ⁷ / ₈ "	(98mm)



21-4003	RHODE ISLAND HOSPITAL Instrument Holder		
	Length	12"	(305mm)



	WEISENBACH Forceps Holder		
28-4010	Length	6"	(152mm)
28-4011	Length	12"	(305mm)

RACKS, HOLDERS INSTRUMENT STERILIZING

GENERAL

21-4002	WIRE Instrument Rack		
	Height	3¼"	(83mm)
	Base	4¼"	(108mm)



RETRACTORS, HAND-HELD ABDOMINAL

	DEAVER Retractors, standard handle		
	Length	8"	(203mm)
50-5629	Blade depth	2½"	(64mm)
	Blade width	⅜"	(10mm)
50-5630	Blade depth	2½"	(64mm)
	Blade width	⅝"	(16mm)
50-5631	Blade depth	2½"	(64mm)
	Blade width	1"	(25mm)



RETRACTORS, HAND-HELD ABDOMINAL



DEAVER Retractors, standard handle.

50-4303	No. 1	Length	1"	(25mm)
		Width	12"	(305mm)
50-4304	No. 2	Length	1"	(25mm)
		Width	13"	(330mm)
50-4306	No. 3	Length	1½"	(38mm)
		Width	12"	(305mm)
50-4307	No. 4	Length	2"	(51mm)
		Width	12"	(305mm)
50-4308	No. 5	Length	3"	(76mm)
		Width	12"	(305mm)
50-4309	No. 6	Length	4"	(102mm)
		Width	14"	(356mm)



DEAVER Retractors, ring-grip handle.

50-4316	No. 1	Length	12"	(305mm)
		Width	1"	(25mm)
50-4319	No. 3	Width	1½"	(38mm)
50-4320	No. 4	Width	2"	(51mm)
50-4321	No. 5	Width	3"	(76mm)
		Length	13"	(330mm)
50-4317	No. 2	Width	1"	(25mm)

RETRACTORS, HAND-HELD ABDOMINAL

GENERAL



HARRINGTON Splanchnic Retractors

	Length	12½"	(318mm)
50-8100	Blade width	1½"	(38mm)
50-8102	Blade width	2½"	(64mm)

KELLY Retractors, standard handle.

50-4110	Blade width	1½"	(38mm)
	Blade depth	2"	(51mm)
	Length	9¼"	(235mm)
50-4111	Blade width	2"	(51mm)
	Blade depth	2½"	(64mm)
	Length	9½"	(241mm)
50-4112	Blade width	2½"	(64mm)
	Blade depth	3"	(76mm)
	Length	10"	(254mm)
50-4113	Blade width	3"	(76mm)
	Blade depth	3½"	(89mm)
	Length	10½"	(267mm)



RETRACTORS, HAND-HELD ABDOMINAL



KELLY Retractors, ring-grip handle.		
50-4115	Blade width	1½" (38mm)
	Blade depth	2" (51mm)
	Length	9¼" (235mm)
50-4116	Blade width	2" (51mm)
	Blade depth	2½" (64mm)
	Length	9¼" (235mm)
50-4117	Blade width	2½" (64mm)
	Blade depth	3" (76mm)
	Length	10" (254mm)
50-4118	Blade width	3" (76mm)
	Blade depth	3½" (89mm)
	Length	10" (254mm)



RICHARDSON Retractors, standard handle.		
50-4120	Blade width	¾" (19mm)
	Blade depth	1" (25mm)
	Length	9¼" (235mm)
50-4121	Blade width	1" (25mm)
	Blade depth	1¼" (32mm)
	Length	9¼" (235mm)
50-4122	Blade width	1½" (38mm)
	Blade depth	1¾" (44mm)
	Length	9½" (241mm)



RICHARDSON Retractors, ring-grip handle.		
	Length	9½" (241mm)
50-4123	Blade width	¾" (19mm)
	Blade depth	1" (25mm)
50-4124	Blade width	1" (25mm)
	Blade depth	1¼" (32mm)
50-4125	Blade width	1½" (38mm)
	Blade depth	1½" (38mm)



50-4130	RICHARDSON Appendectomy Retractor, standard handle.	
	Blade width	13/16" (21mm)
	Blade depth	2" (51mm)
	Length	9¼" (235mm)

RETRACTORS, HAND-HELD ABDOMINAL

GENERAL

50-4131	RICHARDSON Appendectomy Retractor, ring-grip handle.		
	Blade width	$\frac{3}{4}$ "	(19mm)
	Blade depth	2"	(51mm)
	Length	$9\frac{1}{4}$ "	(235mm)



50-4135	RICHARDSON-EASTMAN Retractors, double-ended, set of two.		
	Small		
	Blade width	$\frac{7}{8}$ "	(22mm)
	Blade depth	$1\frac{5}{16}$ "	(24mm)
	Blade width	$1\frac{1}{2}$ "	(38mm)
	Blade depth	$1\frac{5}{8}$ "	(41mm)
	Length	10"	(254mm)
	Large		
	Blade width	$1\frac{3}{4}$ "	(44mm)
	Blade depth	$2\frac{1}{2}$ "	(64mm)
	Blade width	$1\frac{3}{16}$ "	(30mm)
	Blade depth	$1\frac{3}{16}$ "	(30mm)
	Length	$10\frac{1}{2}$ "	(267mm)

RETRACTORS, HAND-HELD GENERAL PURPOSE

50-5608	BOLEY Retractor, double-ended.		
	Blade width	$\frac{1}{2}$ "	(13mm)
	Blade depth	$\frac{1}{2}$ "	(13mm)
	Blade width	$\frac{7}{16}$ "	(11mm)
	Blade depth	$\frac{7}{16}$ "	(11mm)
	Length	$6\frac{1}{4}$ "	(159mm)



RETRACTORS, HAND-HELD GENERAL PURPOSE



50-4100	CHILDREN'S HOSPITAL Retractor, double-ended.	
Blade width	7/16"	(11mm)
Blade depth	7/8"	(22mm)
Blade width	9/16"	(14mm)
Blade depth	1 3/8"	(35mm)
Length	5 1/2"	(140mm)



50-5645	CHILDREN'S HOSPITAL Retractor, double-ended, S-shaped.	
Blade width	1/4"	(6mm)
Blade depth	3/4"	(19mm)
Blade width	1/2"	(13mm)
Blade depth	3/4"	(19mm)
Length	4 7/8"	(124mm)



50-4105	CRILE Retractor, double-ended.	
Blade width	1/4"	(6mm)
Blade depth	3/4"	(19mm)
Blade width	3/16"	(5mm)
Blade depth	5/8"	(16mm)
Length	4 1/4"	(108mm)



50-1020	CUSHING Vein Retractor	
Blade width	1/2"	(13mm)
Blade depth	3/8"	(10mm)
Length	9"	(229mm)



50-4095	GOELET Retractor, double-ended.	
Blade width	1 1/4"	(32mm)
Blade depth	1"	(25mm)
Blade width	1 5/8"	(41mm)
Blade depth	1 1/4"	(32mm)
Length	7 1/2"	(191mm)

RETRACTORS, HAND-HELD GENERAL PURPOSE

GENERAL



50-4297	GREENE Thyroid Retractor, fenestrated blade.
Blade width	1 ¹ / ₁₆ " (17mm)
Blade depth	1" (25mm)
Length	8 ³ / ₄ " (222mm)

50-4246	ISRAEL Retractor, four prong, blunt.
Blade width	1 ³ / ₄ " (44mm)
Blade depth	1 ³ / ₄ " (44mm)
Length	7 ³ / ₄ " (197mm)



50-4040	LAHEY Thyroid Retractor
Blade width	1/4" (6mm)
Blade depth	1" (25mm)
Length	8 ¹ / ₈ " (206mm)



	LANGENBECK Retractors
	Length 8 ¹ / ₄ " (210mm)
50-4255	Blade width 3/8" (10mm)
	Blade depth 1 ⁵ / ₈ " (41mm)
50-4256	Blade width 1/2" (13mm)
	Blade depth 1 ⁵ / ₈ " (41mm)



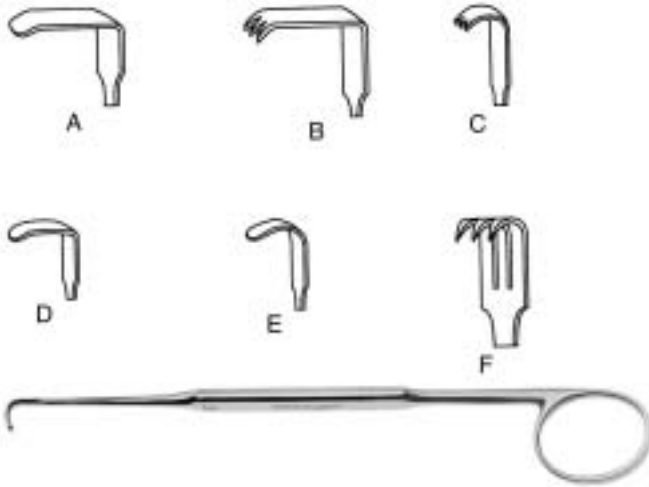
	MATHIEU Retractors, double-ended, three prong blade.
	Prong width 3/8" (10mm)
	Blade width 1/4" (6mm)
	Blade depth 3/4" (19mm)
	Length 6 ¹ / ₂ " (164mm)
50-4290	Sharp
50-4291	Blunt



RETRACTORS, HAND-HELD GENERAL PURPOSE



50-4410	McBURNEY Thyroid Retractor, fenestrated blade.
Blade width	$\frac{3}{8}$ " (10mm)
Blade depth	$\frac{3}{4}$ " (19mm)
Length	$7\frac{3}{8}$ " (187mm)



		MEYERDING Finger Retractors	
		Length	7" (178mm)
50-1070	A	Blade width	$\frac{1}{4}$ " (6mm)
		Blade depth	$1\frac{1}{16}$ " (17mm)
50-1071	B	Blade width	$\frac{3}{16}$ " (5mm)
		Blade depth	$\frac{5}{8}$ " (16mm)
50-1072	C	Blade width	$\frac{1}{8}$ " (3mm)
		Blade depth	$\frac{1}{4}$ " (6mm)
50-1073	D	Blade width	$\frac{1}{16}$ " (2mm)
		Blade depth	$\frac{1}{4}$ " (6mm)
50-1074	E	Blade width	$\frac{1}{8}$ " (3mm)
		Blade depth	$\frac{1}{4}$ " (6mm)
50-1075	F	Blade width	$\frac{3}{8}$ " (10mm)
		Blade depth	$\frac{1}{4}$ " (6mm)



50-4485	MEYERDING Retractor, double-ended, with skin hook.
Blade width	$\frac{3}{16}$ " (5mm)
Blade depth	$\frac{5}{8}$ " (16mm)
Hook depth	$\frac{3}{8}$ " (10mm)
Length	$6\frac{1}{4}$ " (159mm)

RETRACTORS, HAND-HELD GENERAL PURPOSE

GENERAL



50-4253	OLLIER Retractor, four-prong, blunt.		
	Blade width	2¼"	(57mm)
	Blade depth	1¾"	(44mm)
	Length	9"	(229mm)

50-4090	PARKER Retractors, double-ended, set of two.		
	Blade width	5⁄8"	(16mm)
	Blade depth	¾"	(19mm)
	Length	5½"	(140mm)
50-4091	Blade width	1"	(25mm)
	Blade depth	1"	(25mm)
	Length	7"	(178mm)



	RIBBON Malleable Retractors		
50-5637	Blade width	½"	(13mm)
	Length	8"	(203mm)
50-5638	Blade width	5⁄8"	(16mm)
	Length	8"	(203mm)
50-5639	Blade width	¾"	(19mm)
	Length	8"	(203mm)
50-4210	Blade width	1"	(25mm)
	Length	13"	(330mm)
50-4212	Blade width	1½"	(38mm)
	Length	13"	(330mm)
50-4214	Blade width	2"	(51mm)
	Length	13"	(330mm)

RETRACTORS, HAND-HELD GENERAL PURPOSE



	SENN Retractors, double-ended, three prong blade.	
	Prong width	$\frac{5}{16}$ " (8mm)
	Blade width	$\frac{1}{4}$ " (6mm)
	Blade depth	$\frac{3}{4}$ " (19mm)
	Length	$6\frac{7}{16}$ " (164mm)
50-4260	Sharp	
50-4261	Blunt	



50-4071	U.S. ARMY Retractors, double-ended, set of two.	
	Length	$8\frac{5}{16}$ " (211mm)
	Blade width	$1\frac{3}{4}$ " (44mm)
	Blade depth	$\frac{9}{16}$ " (14mm)
	Blade width	$1\frac{1}{4}$ " (32mm)
	Blade depth	$\frac{9}{16}$ " (14mm)

RETRACTORS, HAND-HELD GENERAL PURPOSE

GENERAL



VOLKMANN Retractors			
	Length	8 ³ / ₄ "	(222mm)
	Two prong		
	Blade width	7 ¹ / ₁₆ "	(11mm)
	Blade depth	1 ¹ / ₁₆ "	(17mm)
50-4220	Sharp		
50-4225	Blunt		
	Three prong		
	Blade width	1 ¹ / ₁₆ "	(17mm)
	Blade depth	1 ¹ / ₁₆ "	(17mm)
50-4221	Sharp		
50-4226	Blunt		
	Four prong		
	Blade width	1 ⁵ / ₁₆ "	(24mm)
	Blade depth	1 ¹ / ₁₆ "	(17mm)
50-4222	Sharp		
50-4227	Blunt		
	Six prong		
	Blade width	1 ¹ / ₂ "	(38mm)
	Blade depth	1 ¹ / ₁₆ "	(17mm)
50-4223	Sharp		
50-4228	Blunt		

RETRACTORS, HAND-HELD HYSTERECTOMY



HEANEY Hysterectomy Retractors		
50-5565	Blade width	1" (25mm)
	Blade depth	1¾" (44mm)
	Length	6½" (165mm)
50-5566	Blade width	1⅛" (29mm)
	Blade depth	2⅞" (73mm)
	Length	6½" (165mm)
50-5567	Blade width	1⅛" (29mm)
	Blade depth	¾" (83mm)
	Length	6½" (165mm)



50-5570	HEANEY-SIMON Hysterectomy Retractor	
	Blade width	1" (25mm)
	Blade depth	4½" (114mm)
	Length	10¼" (260mm)

RETRACTORS, HAND-HELD RECTAL



HILL-FERGUSON Rectal Retractors		
50-5668	Blade width	7/8" (22mm)
	Blade depth	27/16" (62mm)
	Length	8¼" (210mm)
50-5669	Blade width	13/16" (30mm)
	Blade depth	2⅞" (73mm)
	Length	8½" (216mm)

RETRACTORS, HAND-HELD RECTAL

GENERAL



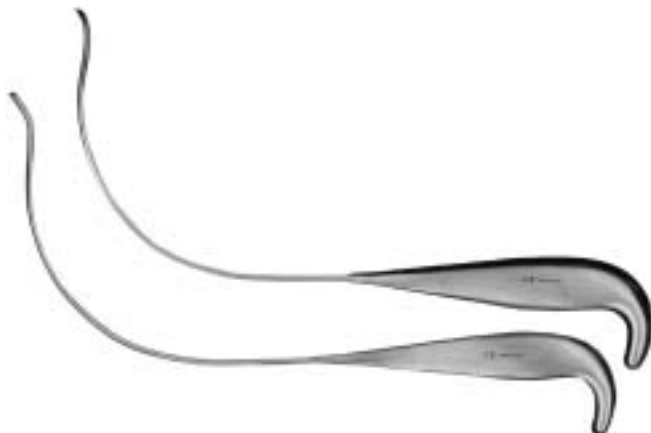
50-5671	SAWYER Rectal Retractor		
	Blade width	1½"	(29mm)
	Blade depth	3½"	(79mm)
	Length	12"	(305mm)

RETRACTORS, HAND-HELD VAGINAL

	JACKSON Vaginal Retractors		
50-5540	Blade width	1½"	(38mm)
	Blade depth	3"	(76mm)
	Length	6¾"	(171mm)
50-5541	Blade width	1½"	(38mm)
	Blade depth	3½"	(89mm)
	Length	6¾"	(171mm)
50-5542	Blade width	1½"	(38mm)
	Blade depth	4"	(102mm)
	Length	6¾"	(171mm)



RETRACTORS ORTHOPAEDIC



	COBRA Retractors	
	Length	10 $\frac{1}{4}$ " (26cm)
37-4105	Sharp, 1.25" tip	
37-4106	Blunt, 1.25" tip	

RETRACTORS, SELF-RETAINING ABDOMINAL



50-4500	BALFOUR Abdominal Retractor, self-retaining with fixed lateral fenestrated blades and one center blade.	
	Lateral blade width	1 $\frac{1}{4}$ " (32mm)
	Lateral blade depth	2" (51mm)
	Center blade width	3" (76mm)
	Center blade depth	2" (51mm)
	Total opening	7" (178mm)

RETRACTORS, SELF-RETAINING ABDOMINAL

GENERAL

50-4501 BALFOUR Abdominal Retractor, self-retaining with fixed solid lateral blades and one center blade.

Lateral blade width	1¼"	(32mm)
Lateral blade depth	2"	(51mm)
Center blade width	3"	(76mm)
Center blade depth	2"	(51mm)
Total opening	7"	(178mm)



50-4502 BALFOUR Abdominal Retractor, self-retaining with fixed lateral fenestrated blades and one center blade.

Lateral blade width	1½"	(38mm)
Lateral blade depth	4"	(102mm)
Center blade width	2½"	(64mm)
Center blade depth	4"	(102mm)
Total opening	7"	(178mm)



RETRACTORS, SELF-RETAINING ABDOMINAL



50-4503 BALFOUR Abdominal Retractor, self-retaining with trigger ratchet. Includes two pair of detachable lateral fenestrated blades and one center blade.

Lateral blade width	1 $\frac{3}{4}$ "	(44mm)
Lateral blade depth	2 $\frac{1}{2}$ "	(64mm)
Lateral blade width	1 $\frac{3}{4}$ "	(44mm)
Lateral blade depth	3 $\frac{3}{8}$ "	(86mm)
Center blade width	2 $\frac{1}{2}$ "	(64mm)
Center blade depth	2 $\frac{1}{2}$ "	(64mm)
Total opening	7 $\frac{5}{8}$ "	(194mm)



BALFOUR Fenestrated Lateral Blades, one pair. Use with BALFOUR 50-4503 and 50-4509 Retractors.

50-4504	Blade depth	2 $\frac{1}{2}$ "	(64mm)
50-4505	Blade depth	3 $\frac{1}{2}$ "	(89mm)
50-4506	Blade depth	4"	(102mm)

RETRACTORS, SELF-RETAINING ABDOMINAL

50-4509 BALFOUR Abdominal Retractor, self-retaining with trigger ratchet. Includes two pair of detachable lateral fenestrated blades and one center blade.

Lateral blade width	1¾"	(44mm)
Lateral blade depth	2½"	(64mm)
Lateral blade width	1¾"	(44mm)
Lateral blade depth	3½"	(89mm)
Center blade width	¾"	(82mm)
Center blade depth	2½"	(64mm)
Total opening	10½"	(267mm)



50-4510 BALFOUR Abdominal Retractor, self-retaining with trigger ratchet. Includes fixed lateral fenestrated blades and one center blade.

Lateral blade width	1½"	(38mm)
Lateral blade depth	2½"	(64mm)
Center blade width	2½"	(64mm)
Center blade depth	2½"	(64mm)
Total opening	8½"	(216mm)



RETRACTORS, SELF-RETAINING ABDOMINAL



50-4514 BALFOUR Abdominal Retractor, self-retaining with ratchet cross bar. Includes two pair interchangeable lateral fenestrated blades and two center blades.

Total opening	7"	(178mm)
Lateral blades		
Width	1½"	(38mm)
Depth	2¼"	(57mm)
Width	1½"	(38mm)
Depth	¾"	(83mm)
Center blades		
Width	¾"	(83mm)
Depth	2¼"	(57mm)
Width	2½"	(63mm)
Depth	2½"	(63mm)



50-5651 BALFOUR Abdominal Retractor, miniature model, self-retaining with fixed lateral fenestrated blades and one center blade.

Lateral blade width	1"	(25mm)
Lateral blade depth	1"	(25mm)
Center blade width	1"	(25mm)
Center blade depth	1"	(25mm)
Arm length	3½"	(89mm)
Total opening	3¾"	(95mm)

RETRACTORS, SELF-RETAINING ABDOMINAL

GENERAL

	BALFOUR Center Blades, supra-pubic.		
50-4521	Width	2¾"	(70mm)
	Depth	2¾"	(70mm)
	Length	9½"	(241mm)
50-4522	Width	3¼"	(82mm)
	Depth	2¾"	(70mm)
	Length	9¾"	(248mm)
50-4516	BALFOUR Center Blade, standard.		
	Width	3½"	(89mm)
	Depth	1¾"	(45mm)
	Length	9¾"	(248mm)



	BALFOUR Fourth Arm Attachment, without blade.		
	Length	12"	(305mm)
50-4526	Left		
50-4527	Right		



RETRACTORS, SELF-RETAINING ABDOMINAL



50-4524	HORGAN Malleable Center Blade	
Blade width	2"	(51mm)
Blade length	7 ³ / ₄ "	(197mm)
Length	14 ³ / ₄ "	(375mm)



50-4400	O'SULLIVAN-O'CONNOR Abdominal Retractor, self-retaining. Includes two fixed blades, two removable small blades and one large removable blade.	
Small blade width	1"	(25mm)
Small blade depth	2"	(51mm)
Fixed blade width	1"	(25mm)
Fixed blade depth	2"	(51mm)
Large blade width	2 ³ / ₄ "	(70mm)
Large blade depth	4"	(102mm)
Fixed blade opening	5 ¹ / ₂ "	(140mm)
Large blade opening	6 ¹ / ₄ "	(159mm)

RETRACTORS, SELF-RETAINING



50-4265	ALM Retractor, self retaining with semi-sharp prongs.	
Prong depth	1/8"	(3mm)
Length	3"	(76mm)
Total opening	2"	(51mm)

RETRACTORS, SELF-RETAINING

50-1186 ANDERSON-ADSON Scalp Retractor, self-retaining with angular arms, 4x4 sharp prongs.

Blade width	3/4"	(19mm)
Blade depth	5/8"	(16mm)
Total opening	4 1/2"	(114mm)
Length	7 1/2"	(191mm)



50-1165 BECKMAN Thyroid Retractor, self-retaining with hinged arms. Four prong, sharp blades

Blade width	3/4"	(19mm)
Blade depth	1"	(25mm)
Total opening	5 1/2"	(140mm)
Length	12"	(305mm)



50-1166 CONE Scalp Retractors, self-retaining, with hinged arms. 3x4 blunt prongs

Length	5 3/4"	(146mm)
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50-1167 3x4 sharp prongs

Length	6 3/8"	(162mm)
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50-1220 CONTOUR Scalp Retractor, self-retaining, with blades curved to fit contour of skull, 3x4 blunt prongs.

Blade width	5/8"	(16mm)
Blade depth	5/8"	(16mm)
Total opening	2 1/2"	(64mm)
Length	5 1/2"	(140mm)



RETRACTORS, SELF-RETAINING



50-1210 GELPI Perineal Retractor, self-retaining, one by one prong.
 Total opening 3 $\frac{3}{4}$ " (95mm)
 Length 7 $\frac{1}{4}$ " (184mm)



50-1226 JANSEN Scalp Retractor, self-retaining, 4x4 blunt prongs.
 Blade width $\frac{3}{4}$ " (19mm)
 Blade depth $\frac{3}{4}$ " (19mm)
 Total opening 3" (76mm)
 Length 4 $\frac{5}{8}$ " (117mm)



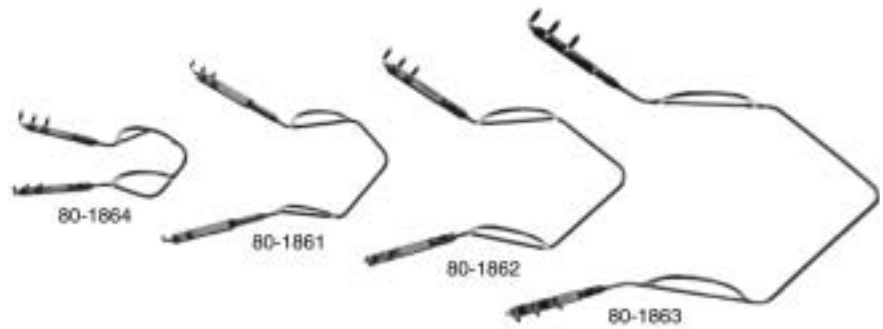
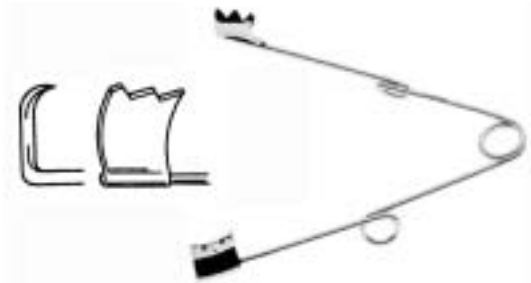
50-1227 JANSEN Mastoid Retractor, self-retaining, 3x3 blunt prongs.
 Prong width $\frac{1}{16}$ " (17mm)
 Prong depth $\frac{3}{8}$ " (10mm)
 Total opening 1 $\frac{3}{4}$ " (44mm)
 Length 4" (102mm)



50-1236 SNITMAN Endaural Retractor, self-retaining, 3x3 sharp prongs on solid blade.
 Prong width $\frac{9}{16}$ " (14mm)
 Prong depth $\frac{3}{8}$ " (10mm)
 Total opening 2" (51mm)
 Length 4 $\frac{3}{16}$ " (106mm)

RETRACTORS, SELF-RETAINING

SPRING Retractors, self-retaining.			
50-4350	One prong, sharp		
	Prong length	$\frac{3}{8}$ "	(10mm)
	Length	$3\frac{1}{8}$ "	(79mm)
50-4351	Three prong, semi-sharp blade		
	Blade width	$\frac{7}{16}$ "	(11mm)
	Blade depth	$\frac{9}{16}$ "	(14mm)
	Length	$3\frac{1}{4}$ "	(83mm)



I.M.A. Epicardial Retractors			
Gold Coated			
	Size	Length	
80-1864	Mini	1"	(25mm)
80-1861	Small	$1\frac{1}{8}$ "	(28mm)
80-1862	Medium	$1\frac{1}{2}$ "	(38mm)
80-1863	Large	$2\frac{1}{8}$ "	(54mm)

RETRACTORS, SELF-RETAINING



WEITLANER Retractors, self-retaining, 3x4 prongs.			
	Total opening	2¼"	(57mm)
	Length	5½"	(140mm)
50-1194	Sharp		
50-1195	Blunt		
	Total opening	4"	(102mm)
	Length	6½"	(165mm)
50-1196	Sharp		
50-1197	Blunt		
	Total opening	5"	(127mm)
	Length	7½"	(191mm)
50-1198	Sharp		
50-1199	Blunt		
	Total opening	5¾"	(146mm)
	Length	9"	(229mm)
50-1200	Sharp		
50-1201	Blunt		



WEITLANER Retractors, self-retaining, 2x3 prongs.			
	Total opening	2¼"	(57mm)
	Length	4½"	(114mm)
50-5646	Sharp		
50-5647	Blunt		

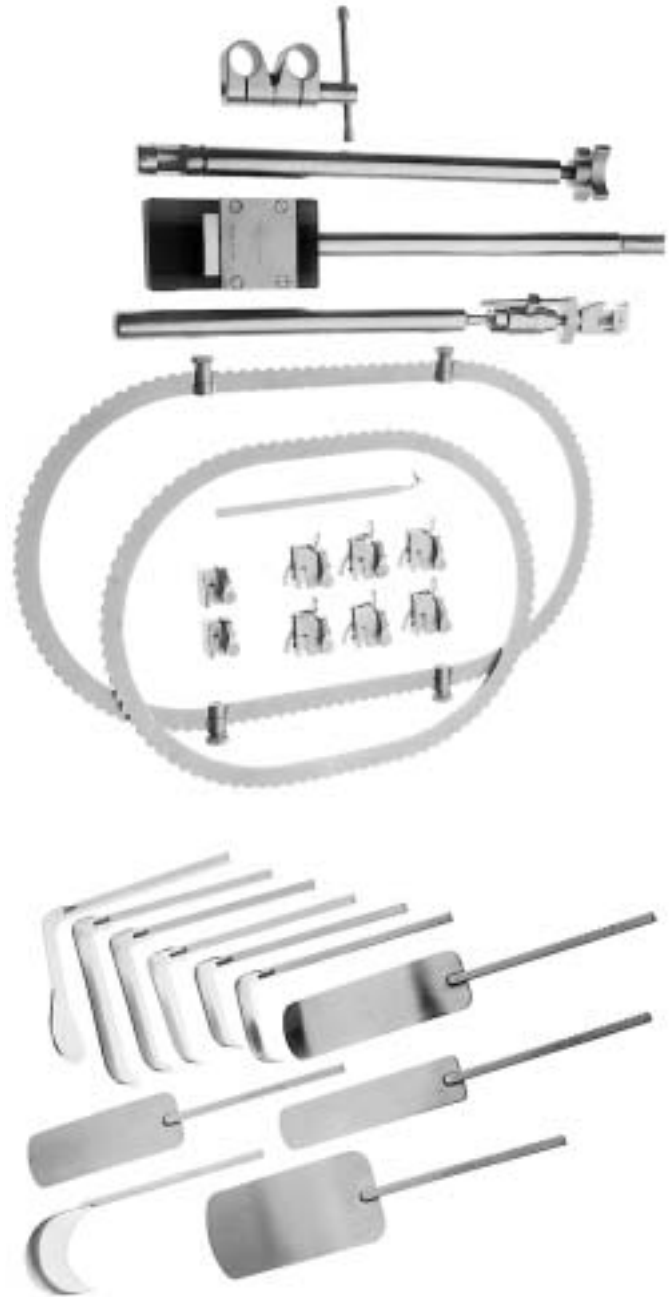
RETRACTORS, TABLE FIXED BOOKWALTER BASIC

GENERAL

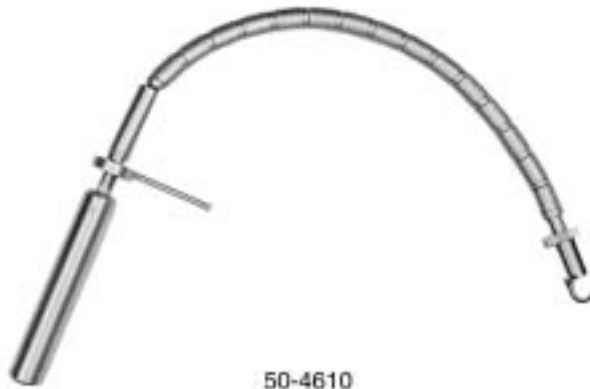
- 50-4542 BOOKWALTER Retractor Kit II
Includes:
- 50-4581 Table Post
- 50-4552 Horizontal Bar
- 50-4554 1" Post Coupling
- 50-4557 Medium Oval Ring
- 50-4561 2" x 6" Malleable Retractors (2 ea.)
51mm x 152mm
- 50-4568 2" x 3" Kelly Retractors (2 ea.)
51mm x 76mm
- 50-4569 2" x 4" Kelly Retractor
51mm x 101mm
- 50-4576 Balfour Retractor
- 50-4579 Ratchet Mechanisms (2 ea.)
- 50-4580 Tilt Ratchet Mechanisms (6 ea.)
- 50-4583 Segmented Ring
- 50-4562 1½" x 6" Malleable Retractor
38mm x 152mm
- 50-4567 3" x 6" Malleable Retractor
76mm x 152mm
- 50-4570 2" x 5" Kelly Retractor
51mm x 127mm
- 50-4571 2" x 6" Kelly Retractor
51mm x 152mm
- 50-4582 Horizontal Flex Bar
- 50-4566 Harrington Retractor
- 50-4577 Gelpi Retractor

Accessories:

- 50-4507 Table Fixation & Ring Case
- 50-4508 Blades & Accessories Case
(see Trays, Bookwalter)



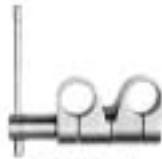
RETRACTORS, TABLE FIXED BOOKWALTER ENDO HOLDER



50-4610



50-4581



50-4554

50-4611 BOOKWALTER Endoscopic Instrument Holder Kit.

Designed to hold a laparoscope or Endoscopic instruments up to $\frac{5}{8}$ " (15.8mm) in diameter.

Kit includes:

50-4610 BOOKWALTER Endoscopic Instrument Holder

50-4581 BOOKWALTER Table Post

50-4554 BOOKWALTER Post Coupling



50-4627 BOOKWALTER Fiberoptic Light Set. Clip is designed to fit securely to any BOOKWALTER Ring. Fiberoptic Light Cable can be directed specifically where illumination is required. Cable has 5mm fiberoptic bundle; ACMI/AFI male endfitting.

Set includes:

50-4625 BOOKWALTER-CABRERA Fiberoptic Clip

50-4626 BOOKWALTER Fiberoptic Light*

Steam Sterilize

250-255° 30 minutes 270-275° 4 minutes

RETRACTORS, TABLE FIXED BOOKWALTER IMA KIT

GENERAL

BOOKWALTER IMA Retractor kit provides the tools to elevate and retract the sternum for efficient dissection of the internal mammary artery.

50-4600 BOOKWALTER IMA Retractor

Includes:

- 50-4552** Horizontal Bar 1" diameter (25mm)
14¼" length (36cm)
- 50-4554** Post Coupling 1" diameter (25mm)
- 50-4581** Table Post 1" diameter (25cm)
- 50-4601** IMA Cross Bar 12" length (30cm)
- 50-4602** IMA Ratchet Mechanism (2 each)
- 50-4603** IMA Retractor Blade (30cm)
(2 each) 12" length
- 50-4604** IMA Storage Case



RETRACTORS, TABLE FIXED BOOKWALTER RECTAL KIT



- 50-4546** BOOKWALTER Rectal Kit
includes:
- 50-4584** BOOKWALTER Small Round Ring
8½" I.D. (216mm)
- 50-4585** BOOKWALTER Rectal Blades small (2 ea.)
3" x 7" (76mm x 178mm)
- 50-4586** BOOKWALTER Rectal Blades large (2 ea.)
4" x 6" (101mm x 152mm)

RETRACTORS, TABLE FIXED BOOKWALTER SPINAL KIT

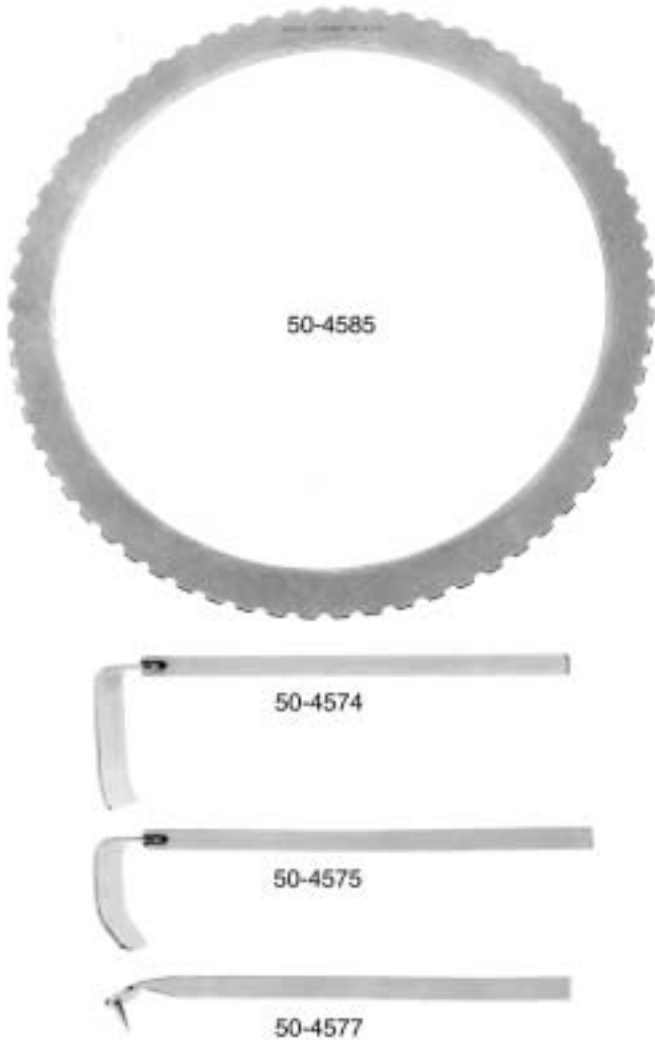


- 50-4631** BOOKWALTER Spinal Retractor
includes:
- 50-4581** BOOKWALTER Table Post 1"
- 50-4582** BOOKWALTER Horizontal Flex Bar
- 50-4554** BOOKWALTER Post Coupling 1" x 1"
- 50-4635** BOOKWALTER Small Round Ring
Segments (1 pair)
- 50-4636** BOOKWALTER Straight Ring Segment 4"
(1 pair)
- 50-4637** BOOKWALTER Straight Ring Segment 6"
(1 pair)
- 50-4638** BOOKWALTER Straight Ring Segment 8"
(1 pair)
- 50-4579** BOOKWALTER Ratchet Mechanism (6 each)
- 50-4580** BOOKWALTER Tilt Ratchet Mechanism
(4 each)
- 50-4639** SCOVILLE Hook Retractor, Small (2 each)
- 50-4640** SCOVILLE Hook Retractor, Large (2 each)
- 50-4641** MEYERDING Retractor, Small (2 each)
- 50-4642** MEYERDING Retractor, Medium (2 each)
- 50-4643** MEYERDING Retractor, Large (2 each)
- 50-4644** Deep Rake Retractor, Small (2 each)
- 50-4645** Skin Rake Retractor, Medium (2 each)
- 50-4646** Skin Rake Retractor, Large (2 each)
- 50-4647** BOOKWALTER Spinal Retractor
Storage/Sterilizing Case

RETRACTORS, TABLE FIXED BOOKWALTER SMALL INCISION KIT

GENERAL

- 50-4578 BOOKWALTER Small Incision kit
Includes:
- 50-4584 BOOKWALTER Small Round Ring
8½" I.D. (216mm)
- 50-4577 GELPI Point Blade
- 50-4574 KELLY Blade 1" x 1½" (25mm x 38mm)
- 50-4575 KELLY Blade 1" x 2½" (25mm x 63mm)
Also Available (not pictured)
- 50-4563 KELLY Blade
Width 2" (51mm)
Depth 2" (51mm)



RETRACTORS, TABLE FIXED MAGRINA-BOOKWALTER VAGINAL KIT



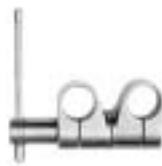
- 50-4547** MAGRINA BOOKWALTER Vaginal Retractor
Includes:
- 50-4590** Vaginal Retractor Ring I.D. 8" x 10½" (203mm x 206mm)
- 50-4591** Lateral Retractor Blade (2 ea) 1" x 3" (25mm x 89mm)
- 50-4592** Deaver Blade, Small 1" x 3½" (25mm x 89mm)
- 50-4593** Deaver Blade, Large 1" x 5" (25mm x 127mm)
- 50-4594** Posterior Blade 1" x 4½" (114mm)
- 50-4554** Post Coupling 1"
- 50-4582** Horizontal Flex Bar
- 50-4581** Table Post 1"
- 50-4580** Tilt Ratchet Mechanism (4 ea)

NOTE: Refer to Retractors, Table Fixed in the GENERAL section of this catalog for individual product descriptions.

RETRACTORS, TABLE FIXED BOOKWALTER COMPONENTS



- 50-4581** BOOKWALTER Table Post, for 1" (25mm) system.



- 50-4554** BOOKWALTER Post Coupling, for 1" (25mm) system.

RETRACTORS, TABLE FIXED BOOKWALTER COMPONENTS

GENERAL

50-4552	BOOKWALTER Horizontal Bar		
	Length	14¼"	(36.5cm)
	Diameter	1"	(2.5cm)



50-4582	BOOKWALTER Horizontal Flex Bar 360° rotation		



50-4553	BOOKWALTER Vertical Extension Bar		
	Length	12"	(305mm)



Must be used with 50-4554 post coupling

50-4579	BOOKWALTER Standard Ratchet Mechanism
50-4580	BOOKWALTER Tilting Ratchet Mechanism



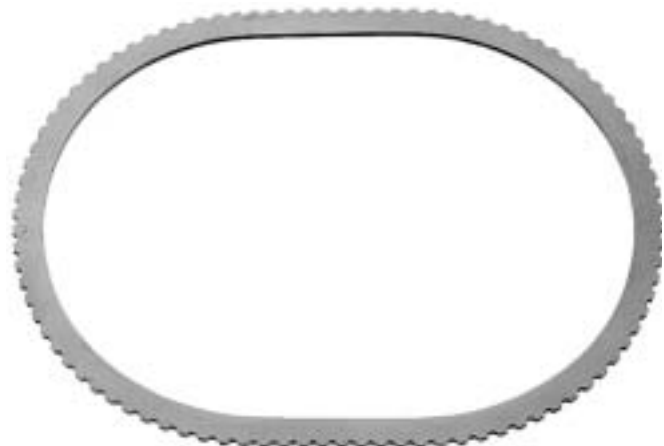
50-4579



50-4580

RETRACTORS, TABLE FIXED BOOKWALTER RINGS

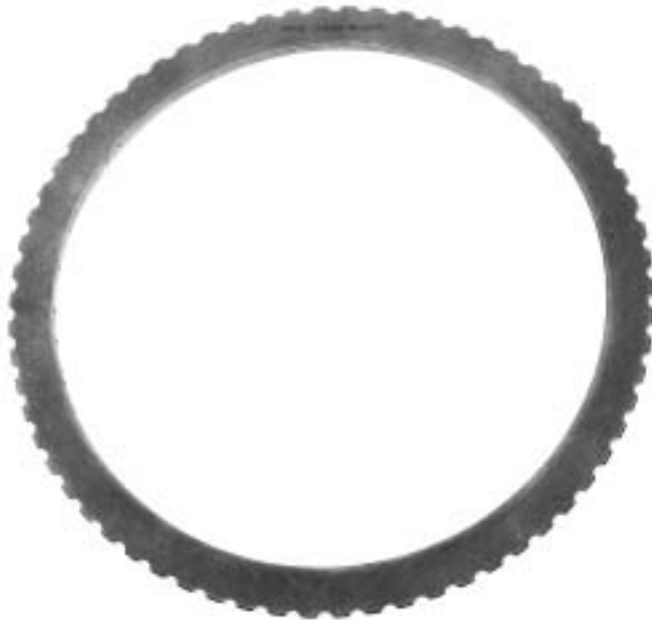
50-4556	BOOKWALTER Oval Rings		
	Large		
	Width (I.D.)	12"	(267mm)
50-4557	Medium		
	Width (I.D.)	10½"	(267mm)
50-4558	Small		
	Width (I.D.)	8"	(203mm)
	Length (I.D.)	12¼"	(311mm)



RETRACTORS, TABLE FIXED BOOKWALTER RINGS



50-4634	BOOKWALTER Medium Round Ring Segments, 1 pr.
Inner diameter	10½" (263mm)
50-4635	BOOKWALTER Small Round Ring Segments, 1 pr.
Inner diameter	8½" (216mm)



	BOOKWALTER Round Rings
50-4584	Small 8½" I.D. (216mm)
50-4559	Medium 10½" I.D. (266mm)
50-4560	Large 12½" I.D. (317mm)

RETRACTORS, TABLE FIXED BOOKWALTER RINGS

GENERAL

	BOOKWALTER Segmented Ring
50-4587	Small I.D. 8½" x 14" (216mm x 356mm) Consisting of (1) 8½" Round Ring and (2) 4" straight segments.
50-4583	Medium I.D. 10½" x 19½" (266mm x 495mm) Consisting of (1) 10½" Round Ring and (2) 8" straight segments.
50-4588	Large I.D. 12½" x 19½" (317mm x 495mm) Consisting of (1) 12½" Round Ring and (2) 6" straight segments.



RETRACTORS, TABLE FIXED BOOKWALTER RINGS



50-4590	Vaginal Retractor Ring, 20° angle
Width	8" (203mm)
Length	10½" (266mm)

RETRACTORS, TABLE FIXED BOOKWALTER BLADES/ACCESSORIES



50-4576	BOOKWALTER-BALFOUR Retractor Blade
Width	2⅝" (67mm)
Depth	3" (76mm)

RETRACTORS, TABLE FIXED BOOKWALTER BLADES/ACCESSORIES

GENERAL

	MAGRINA-BOOKWALTER Vaginal Retractor Deaver Blades			
50-4592	Small	Width	1"	(25mm)
		Length	3½"	(89mm)
50-4593	Large	Width	1"	(25mm)
		Length	5"	(127mm)



50-4577	BOOKWALTER GELPI Point Retractor Blade			
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50-4566	BOOKWALTER-HARRINGTON Retractor Blade			
	Width	2½"	(63mm)	
	Depth	5⅝"	(143mm)	



RETRACTORS, TABLE FIXED BOOKWALTER BLADES/ACCESSORIES



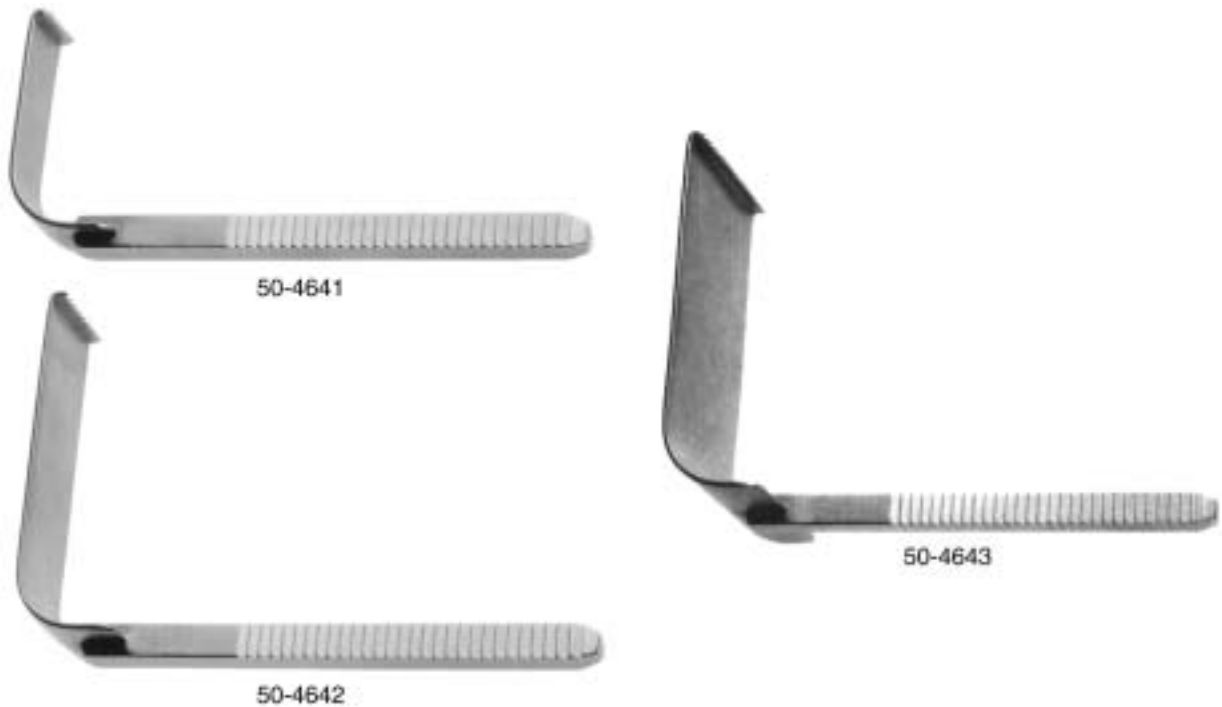
BOOKWALTER-KELLY Retractor Blades			
50-4574	KELLY Blade	1" x 1½"	(25mm x 38mm)
50-4563	Modified	Width 2"	(51mm)
		Depth 2"	(51mm)
50-4575	KELLY Blade	1" x 2½"	(25mm x 63mm)
50-4565	Modified	Width 2"	(51mm)
		Depth 1½"	(38mm)
50-4572	Standard	Width 2"	(51mm)
		Depth 2½"	(64mm)
50-4568	Modified	Width 2"	(51mm)
		Depth 3"	(76mm)
50-4569	Modified	Width 2"	(51mm)
		Depth 4"	(102mm)
50-4570	Modified	Width 2"	(51mm)
		Depth 5"	(127mm)
50-4571	Modified	Width 2"	(51mm)
		Depth 6"	(152mm)



BOOKWALTER Malleable Retractor Blades			
	Length	6"	(152mm)
50-4561	Width	2"	(51mm)
50-4562	Width	1½"	(38mm)
50-4567	Width	3"	(76mm)

RETRACTORS, TABLE FIXED BOOKWALTER BLADES/ACCESSORIES

GENERAL

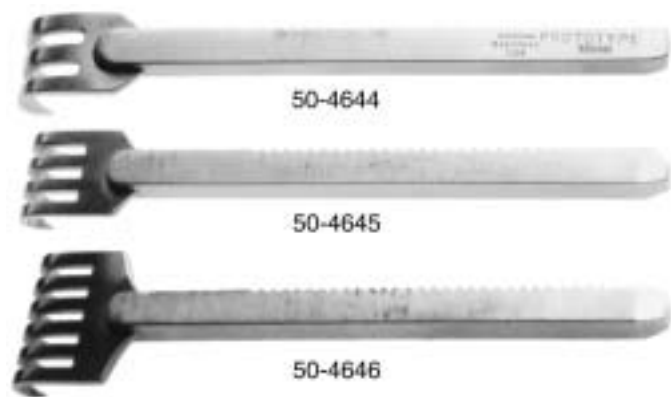


BOOKWALTER-MEYERDING Retractor Blades

		Length	Width
50-4641	Small	2 1/3" (6cm)	2/3" (17mm)
50-4642	Medium	3 1/3" (8.5cm)	1" (25mm)
50-4643	Large	3 3/4" (9.5cm)	2" (50mm)

BOOKWALTER Rake Retractors

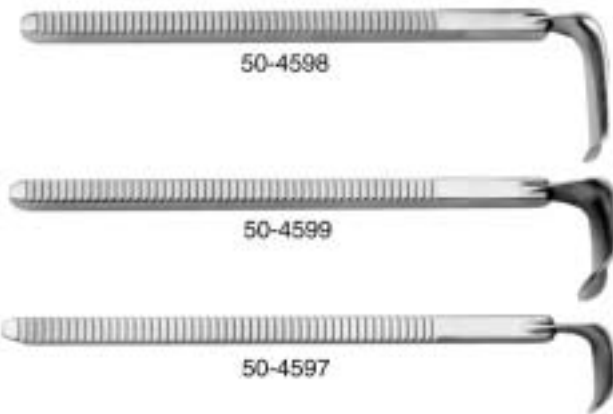
		Depth	Width
50-4644	3 Prongs	3/4" (19mm)	2/3" (17mm)
50-4645	4 Prongs	1/3" (8.4mm)	3/4" (19mm)
50-4646	6 Prongs	1/3" (8.4mm)	1" (25mm)



RETRACTORS, TABLE FIXED BOOKWALTER BLADES/ACCESSORIES



BOOKWALTER Rectal Blades			
	Width	7/8"	
50-4585	Small		
	Length	2 7/8"	(73mm)
50-4586	Large		
	Length	3 7/8"	(98mm)



50-4596	BOOKWALTER RICHARDSON Blade Set		
50-4597	BOOKWALTER RICHARDSON Blade	3/4" x 1"	
50-4598	BOOKWALTER RICHARDSON Blade	3/4" x 2"	
50-4599	BOOKWALTER RICHARDSON Blade	1" x 1 1/4"	



BOOKWALTER-SCOVILLE Hooks		
		Length
50-4639	Small	2" (50mm)
50-4640	Large	3 1/4" (83mm)

RETRACTORS, TABLE FIXED BOOKWALTER BLADES/ACCESSORIES

GENERAL

50-4591	Vaginal Retractor Lateral Blade Used with MAGRINA-BOOKWALTER Vaginal Retractor kit 50-4547. 45° angle
Width	1" (25mm)
Length	3" (76mm)



50-4594	Vaginal Retractor Posterior Blade
Width	1" (25mm)
Length	4½" (114mm)



SCISSORS ABDOMINAL

54-4080	DOYEN Abdominal Scissors, straight,
Length	7" (178mm)



54-4085	FERGUSON Abdominal Scissors, angled on flat.
Length	7¼" (184mm)



SCISSORS BANDAGE



	CLASSIC LISTER Bandage Scissor		
34-4013	Length	7½"	(190mm)
	Straight		



	LISTER Bandage Scissors		
54-4012	Length	5¾"	(146mm)
54-4013	Length	7¼"	(184mm)



54-4192	LISTER Bandage Scissors, one large ring.		
	Length	7½"	(191mm)

SCISSORS DELICATE



	DELICATE Scissors, blunt/blunt.		
54-2515	Length	4½"	(114mm)
	Straight		
54-2520	Curved		

SCISSORS DELICATE

GENERAL

54-5567 DELICATE Scissors, curved with
dissecting end.
Length 4⁷/₈" (124mm)



54-5566 DELICATE Dissecting Scissors
Length 5" (127mm)
Curved



54-4300 DELICATE Operating Scissors
Length 5" (127mm)
Straight
Sharp/blunt
54-4301 Sharp/sharp



54-4306 DELICATE Operating Scissors
Length 5¹/₂" (140mm)
Straight
Sharp/blunt



34-1076 CLASSIC FINE SCISSORS, CURVED.
Length 4¹/₂" (114mm)



SCISSORS DELICATE



	FINE Scissors, sharp/sharp.	
54-1075	Length 4½"	(114mm)
	Straight	
54-1076	Curved	



54-5571	DELICATE LAHEY Scissors, curved.	
	Length 5¾"	(146mm)



54-5573	DELICATE METZENBAUM Scissors, curved.	
	Length 7"	(178mm)

SCISSORS DISSECTING



	MAGNAFREE™ MRI Mayo Scissor, Non-Magnetic (Titanium) for Intraoperative MRI. MRI safe up to 1.5 Tesla.	
65-2416	MRI Mayo Dissecting Scissors, Straight	
	Length 6¾"	(171mm)

SCISSORS DISSECTING

GENERAL

MAYO CLASSIC PLUS® Dissecting Scissors,
STELLITE™ edge inserts.

Straight

36-5050 Length 5½" (140mm)

36-5051 Length 6¾" (171mm)

36-5052 Length 9" (229mm)

Curved

36-5060 Length 5½" (140mm)

36-5061 Length 6¾" (171mm)

36-5062 Length 9" (229mm)



CLASSIC MAYO Scissors

Length 6¾" (171mm)

34-4490 Straight, Beveled blades

34-4092 Straight, Round blades

34-4095 Curved, Beveled blades

34-4097 Curved, Round blades
Length 5½" (139mm)

34-4088 Straight, Round blades

34-4098 Straight, Beveled blades



MAYO Dissecting Scissors, round blades.

Straight

54-4088 Length 5¾" (146mm)

54-4092 Length 6¾" (171mm)

Curved

54-4097 Length 6¾" (171mm)



SCISSORS DISSECTING



	MAYO Dissecting Scissors, beveled blades.		
	Straight		
54-4098	Length	5½"	(140mm)
54-4090	Length	6¾"	(171mm)
54-5535	Length	9"	(229mm)
	Curved		
54-4099	Length	5½"	(140mm)
54-4095	Length	6¾"	(171mm)
54-2505	Length	9"	(229mm)



	MAYO-NOBLE Dissecting Scissors, beveled blades.		
	Length	6¼"	(159mm)
54-4075	Straight		
54-4076	Curved		

SCISSORS DISSECTING

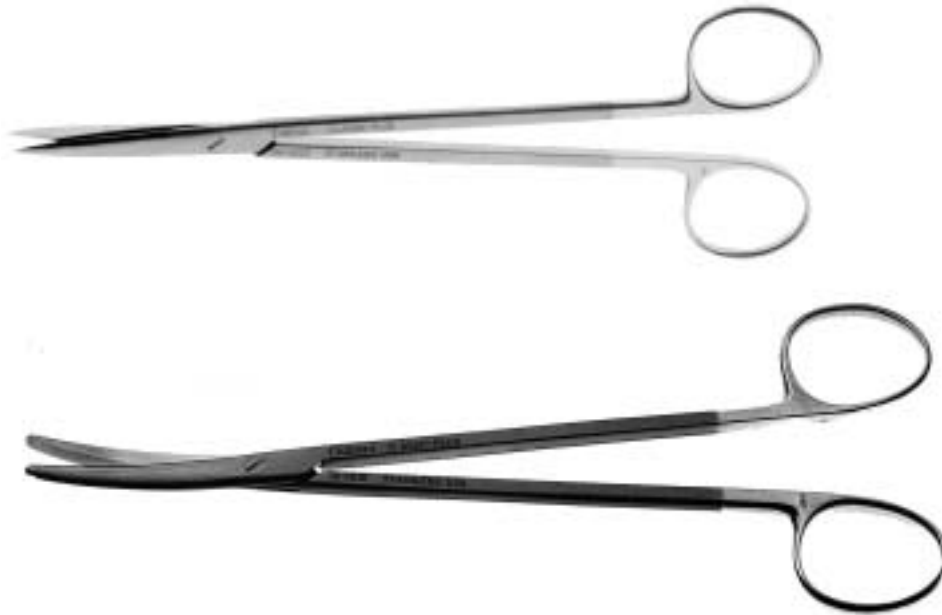
GENERAL



METZENBAUM CLASSIC PLUS® Dissecting
Scissors, standard, STELLITE™ edge inserts.
Straight

36-5010	Length	5¾"	(146mm)
36-5011	Length	7"	(178mm)
	Curved		
36-5015	Length	5¾"	(146mm)
36-5016	Length	7"	(178mm)
36-5017	Length	9"	(229mm)

SCISSORS DISSECTING



METZENBAUM CLASSIC PLUS® Dissecting Scissors, delicate, STELLITE™ edge inserts.
Straight

36-5020	Sharp/sharp	Length	5¾"	(146mm)
36-5021	Blunt/blunt	Length	5¾"	(146mm)
36-5022	Sharp/sharp	Length	7"	(178mm)
36-5023	Blunt/blunt	Length	7"	(178mm)
36-5024	Sharp/sharp	Length	9"	(229mm)
36-5025	Blunt/blunt	Length	9"	(229mm)

Curved

36-5030	Sharp/sharp	Length	5¾"	(146mm)
36-5031	Blunt/blunt	Length	5¾"	(146mm)
36-5032	Sharp/sharp	Length	7"	(178mm)
36-5033	Blunt/blunt	Length	7"	(178mm)
36-5034	Sharp/sharp	Length	9"	(229mm)
36-5035	Blunt/blunt	Length	9"	(229mm)



CLASSIC METZENBAUM Scissors

	Blunt/Blunt			
	Length	5¾"		(146mm)
34-1020	Straight			
34-1021	Curved			
	Length	7"		(178mm)
34-1027	Curved			

SCISSORS DISSECTING

GENERAL

METZENBAUM Dissecting Scissors			
	Straight		
54-1020	Length	5¾"	(146mm)
54-1026	Length	7"	(178mm)
	Curved		
54-1023	Length	5"	(127mm)
54-1021	Length	5¾"	(146mm)
54-1027	Length	7"	(178mm)
54-1030	Length	8"	(203mm)
54-1034	Length	9"	(229mm)
54-1037	Length	11"	(279mm)



MAGNAFREE™ Metzenbaum Scissor, Non-magnetic (titanium) for Interventional MRI. MRI safe up to 1.5 Tesla.			
MRI Metzenbaum Dissecting Scissor, standard, curved			
65-2417	Length	7"	(178mm)

SCISSORS DISSECTING



NELSON CLASSIC PLUS® Scissors,
STELLITE™ edge inserts, curved.
Length 11" (279mm)
36-5070 Standard
36-5071 Delicate



NELSON Scissors
Length 9" (229mm)
54-8025 Straight
54-8026 Curved

SCISSORS IRIS



IRIS CLASSIC PLUS® Scissors,
sharp/sharp, STELLITE™ edge inserts.
Length 4½" (114mm)
36-5000 Straight
36-5001 Curved



CLASSIC IRIS Scissors, sharp/sharp
Length 4½" (114mm)
34-6500 Straight
34-6503 Curved

SCISSORS IRIS

GENERAL

	IRIS Scissors, sharp/sharp.		
	Length	4 $\frac{3}{8}$ "	(111mm)
54-6500	Straight		
54-6503	Curved		



	KNAPP Iris Scissors		
	Length	4"	(102mm)
54-6524	Straight, sharp/blunt		
54-6525	Curved, sharp/blunt		
54-6526	Straight, blunt/blunt		
54-6527	Curved, blunt/blunt		



SCISSORS OPERATING

54-4066	DEAVER Operating Scissors, straight, sharp/blunt.		
	Length	5 $\frac{1}{2}$ "	(140mm)



54-1010	MIXTER Operating Scissors, straight, blunt/blunt.		
	Length	6"	(152mm)



	OPERATING CLASSIC PLUS [®] Scissors, STELLITE [™] edge inserts.		
	Length	5 $\frac{1}{2}$ "	(140mm)
	Straight		
36-5040	Sharp/blunt		
36-5041	Sharp/sharp		



SCISSORS OPERATING



	OPERATING Scissors, straight, sharp/blunt.		
54-4026	Length	5"	(127mm)
54-4029	Length	5½"	(140mm)
54-4032	Length	6"	(152mm)
54-4035	Length	6½"	(165mm)



	OPERATING Scissors, straight, sharp/sharp.		
54-4027	Length	5"	(127mm)
54-4030	Length	5½"	(140mm)



	OPERATING Scissors, straight, blunt/blunt.		
54-4028	Length	5½"	(140mm)
54-4034	Length	6½"	(165mm)

SCISSORS SUTURE



54-4017	LITTAUER Stitch Scissors		
	Length	5½"	(140mm)



54-2550	NEW Suture Scissors, angled on side.		
	Length	5½"	(140mm)

SCISSORS SUTURE

GENERAL

54-2555 SHORTBENT Stitch Scissors, curved on side.
Length 3½" (89mm)



54-4105 SMITH Suture Wire Scissors
Length 6¾" (172mm)



54-6624 SPENCER Stitch Scissors Length 3½" (89mm)
54-4205 Length 4¼" (108mm)



36-5080 WIRE CLASSIC PLUS® Suture Scissors, angled, STELLITE™ edge inserts.
Length 4¾" (121mm)



SCISSORS SUTURE



54-4110	WIRE Suture Scissors, angled, one serrated jaw.		
	Length	4¾"	(121mm)



54-4210	WIRE Suture Scissors, serrated blades.		
	Length	4½"	(114mm)

SCOOPS



	MAYO Common Duct Scoops, malleable shaft, silver plated.		
	Length	10½"	(267mm)
76-4025	Small (4.3mm)		
76-4026	Medium (5.3mm)		
76-4027	Large (7.4mm)		

SPECULA, RECTAL



79-5550	PRATT Rectal Speculum, with set screw.		
	Diameter at opening	1¾"	(45mm)
	Blade width	1"	(25mm)
	Blade depth	3½"	(89mm)
	Length	8"	(203mm)

SPECULA, RECTAL

GENERAL

79-5546	SIMS Rectal Speculum, with set screw and fenestrated blades.
Diameter at opening	5/8" (16mm)
Blade width	1" (25mm)
Blade depth	3 1/2" (89mm)
Length	6" (152mm)



SPONGES

81-1000	PEANUT SECTO™ Dissectors, sterile, X-ray detectable, diameter 3/8" (9.5mm). 100 packages of 5 each, 4 dispenser boxes to case.
81-1001	KITTNER SECTO™ Dissectors, sterile, X-ray detectable, diameter 5/16" (7.9mm). Length 5/8" (16mm). 100 packages of 5 each, 4 dispenser boxes to case.
81-1002	CHERRY SECTO™ Dissectors, sterile, X-ray detectable, diameter 3/8" (9.5mm). 100 packages of 5 each, 4 dispenser boxes to case.
81-1006	TRIANGLE SECTO™ Dissectors, sterile, X-ray detectable, diameter 1/2" (13mm). 100 packages of 5 each, 4 dispenser boxes to case.



SPONGES



81-1010



81-1011



81-1012

TONSIL SECTO™ Sponges, sterile, X-ray detectable. 5 per card; 25 pouches per dispenser box; 2 dispenser boxes per case.

81-1010	Diameter	5/8"	(16mm)
81-1011	Diameter	1"	(25 mm)
81-1012	Diameter	1 1/4"	(32mm)
	Cord length on all sizes	10"	(254mm)

STRIPPERS, VEIN



63-4031 CODMAN Disposable Vein Stripper, sterile, 12 packages per box. Each package includes three olives (small, medium, large), one handle, and two stripper cables.

Cable length	36"	(914mm)
Olive diameters		
Small	3/8"	(10mm)
Medium	1/2"	(13mm)
Large	5/8"	(16mm)

SUCTION TUBES



37-4107 BARON Suction Tube
Working length 3" (7.5cm)

SUCTION TUBES

GENERAL

70-6560 ANDREWS-PYNCHON Suction Tube, chrome plated.
Length 9½" (241mm)



70-4000 POOL Suction Tubes, chrome plated.
Curved tubing connection
Diameter 23 Fr.
Length 9¼" (235mm)

70-4001 Straight tubing connection
Diameter 30 Fr.
Length 9⅝" (244mm)

70-4002 Straight tubing connection, with finger cut-off
Diameter 30 Fr.
Length 10¼" (260mm)



70-4026 YANKAUER Suction Tubes with removable tip, (on 70-4026 only) chrome plated.
Standard
Length 10⅝" (264mm)

70-4024 With thumb control
Length 11¼" (286mm)

Replacement tips are available through Repair Department.

SURG-I-BAND TAPE



SURG-I-BAND* Instrument Marking Tape.
1/4" (.64cm) x 244" (620cm) roll.

43-4020	Black
43-4021	Blue
43-4022	Brown
43-4023	Green
43-4024	Orange
43-4025	Red
43-4026	White
43-4027	Yellow

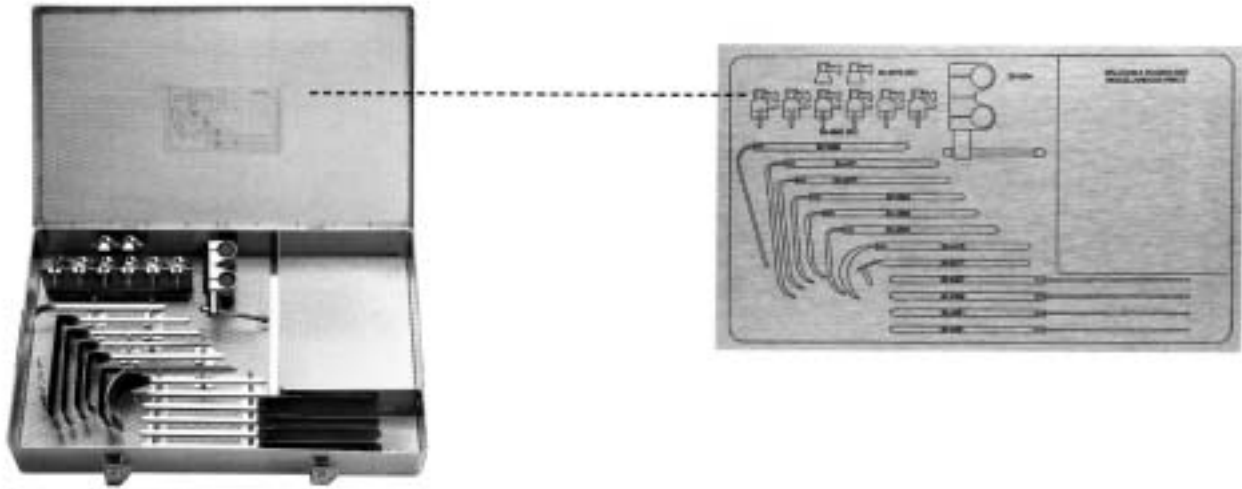
TRAYS, STERILIZING



46-4513 CODMAN Sterilization Case, ULTEM®
Sterilization Case for the CODMAN Interlaminar
Clamp Kit, manufactured from a sterilization
plastic material (ULTEM®) with transparent
covers.

TRAYS, STERILIZING BOOKWALTER

GENERAL



BOOKWALTER™ Blades and Accessories Case

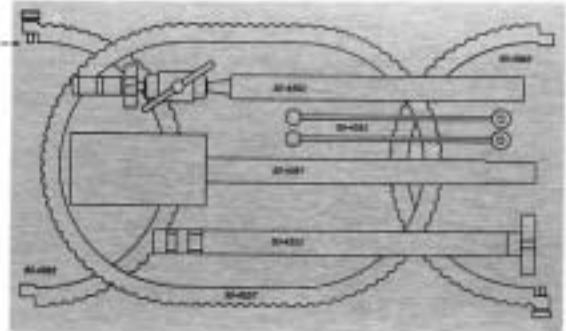
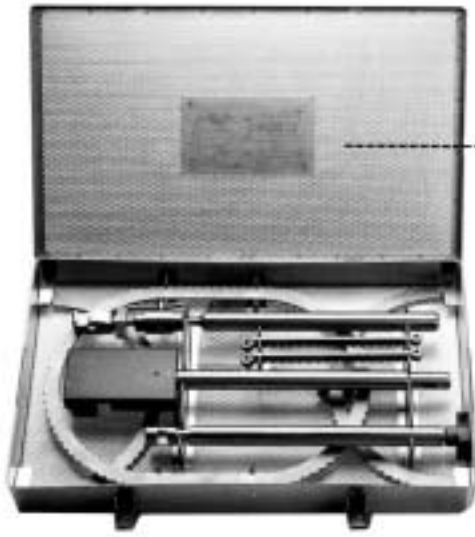
Dimensions: 3¹/₁₆" x 13¹/₈" x 22¹/₈"

Sterilization: Steam

50-4508 Designed to hold the following
BOOKWALTER components:

- 50-4579** (2 ea.) Straight Ratchets
- 50-4580** (6 ea.) Tilt Ratchets
- 50-4554** Post Coupling
- 50-4566** Harrington Blade
- 50-4571** Kelly Blade 2 x 6
- 50-4570** Kelly Blade 2 x 5
- 50-4569** Kelly Blade 2 x 4
- 50-4568** (2 ea.) Kelly Blade 2 x 3
- 50-4576** Balfour Blade 2 x 3
- 50-4577** Gelpi-Blade
- 50-4567** Malleable Blade 3 x 6
- 50-4562** Malleable Blade 1¹/₂ x 6
- 50-4561** (2 ea.) Malleable Blade 2 x 6

TRAYS, STERILIZING BOOKWALTER



BOOKWALTER™ Table Fixation and Ring Case

Dimensions: 2 $\frac{3}{4}$ " x 13 $\frac{1}{8}$ " x 22 $\frac{1}{8}$ "

Sterilization: Steam

50-4507 Designed to hold the following
BOOKWALTER components:

- 50-4581** Table Post
 - 50-4582** Horizontal Flexbar
 - 50-4552** Horizontal Bar
 - 50-4583** Medium Segmented Ring
 - 50-4557** Medium Oval Ring
-

TRAYS, STERILIZING, STAINLESS STEEL INSTRUMENT

GENERAL

80-1830	MICROCARE® Flexible Silicone Mat may be cut to fit most instrument cases.		
	Length	18"	(46cm)
	Width	10"	(25cm)

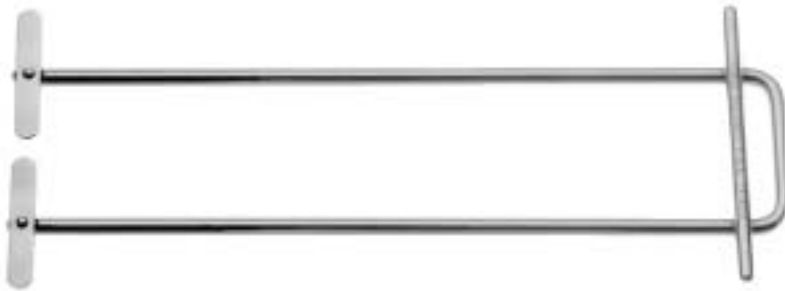
	CODMAN Sterilizing Trays			
	Width		10"	(254mm)
	Depth		3 ³ / ₈ "	(86mm)
21-3000	Small	Length	10"	(254mm)
21-3001	Medium	Length	14 ¹ / ₂ "	(368mm)
21-3002	Large	Length	20 ¹ / ₂ "	(508mm)



28-4008	BUNTS Forceps Holder, one dozen per package.		
	Length	3 ⁷ / ₈ "	(98mm)



TRAYS, STERILIZING, STAINLESS STEEL INSTRUMENT HOLDERS



21-4003 RHODE ISLAND HOSPITAL Instrument Holder
Length 12" (305mm)



28-4010 WEISENBACH Forceps Holder
Length 6" (152mm)
28-4011 Length 12" (305mm)



21-4002 WIRE Instrument Rack
Height 3 1/4" (83mm)
Base 4 1/4" (108mm)

TRAYS, STERILIZING, STAINLESS STEEL INSTRUMENT

GENERAL

-
- 80-1562** MICROCARE® Large Case, holds approximately 18 straight instruments.
Length 15" (381mm)
Width 10½" (267mm)
Depth 1¼" (32mm)
- 80-1563** MICROCARE® Small Case, holds approximately 11 straight instruments.
Length 10½" (267mm)
Width 10" (254mm)
Depth 1¼" (32mm)
- MICROCARE® Cases have a removable lid, hideaway locking handles, extruded silicone rubber bars, and base has nylon-coated pins for extra protection of delicate instruments.
-



TRAYS, STERILIZING, STAINLESS STEEL INSTRUMENT



	MICROCARE® Cases have a removable lid, hideaway locking handles, extruded silicone rubber bars, and base has nylon-coated pins for extra protection of delicate instruments.	
80-1564	MICROCARE® Small Bayonet Case, holds approximately 11 bayonet instruments.	
	Length	10½" (267mm)
	Width	10" (254mm)
	Depth	1¼" (32mm)
80-1565	MICROCARE® Large Bayonet Case, holds approximately 18 bayonet instruments.	
	Length	15" (381mm)
	Width	10½" (267mm)
	Depth	1¼" (32mm)



80-1567	MICROCARE® Combo Tray, holds a maximum of five bayonet and ten straight instruments.	
	Length	15" (381mm)
	Width	10½" (267mm)
	Depth	1¼" (32mm)
	MICROCARE® cases have a removable lid, extruded silicone rubber bars, hideaway locking handles, and base has nylon-coated pins for extra protection of delicate instruments.	

TRAYS, STERILIZING, STAINLESS STEEL KITS

GENERAL

BOOKWALTER IMA Retractor kit provides the tools to elevate and retract the sternum for efficient dissection of the internal mammary artery.

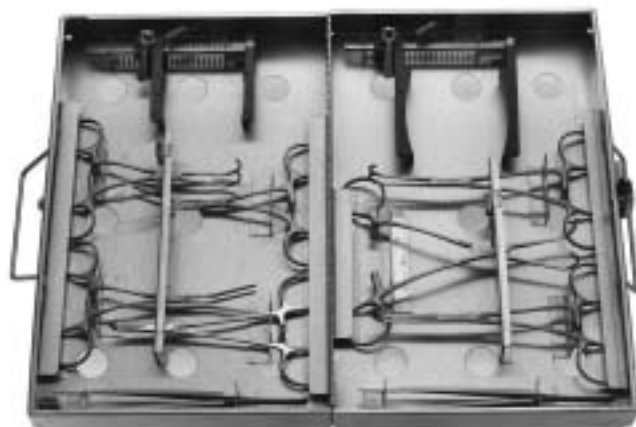
- 50-4600** BOOKWALTER IMA Retractor
Includes:
- 50-4552** Horizontal Bar 1" diameter (25mm)
14¼" length (36cm)
- 50-4554** Post Coupling 1" diameter (25mm)
- 50-4581** Table Post 1" diameter (25cm)
- 50-4601** IMA Cross Bar 12" length (30cm)
- 50-4602** IMA Ratchet Mechanism
(2 each)
- 50-4603** IMA Retractor Blade (30cm)
(2 each) 12" length
- 50-4604** IMA Storage Case



TRAYS, STERILIZING, STAINLESS STEEL KITS



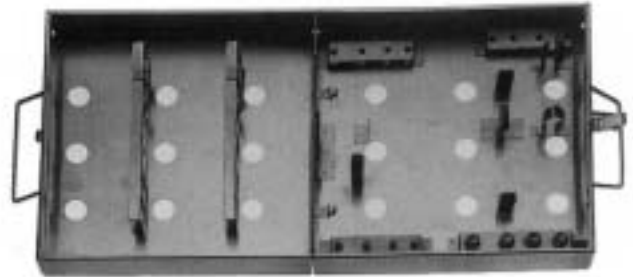
50-4647	BOOKWALTER Spinal Retractor storage/sterilizing case		
	Length	19½"	(50cm)
	Width	13½"	(34cm)
	Depth	4"	(10cm)



	CODMAN CASTANEDA Kit is a group of instruments specifically designed for infant cardiovascular surgery.		
30-9025	CASTANEDA Kit includes:		
	CASTANEDA Clamps		
	Length	5½"	(130mm)
30-9000	Multi-purpose Clamp, angled 30°.		
30-9001	Multi-purpose Clamp, angled 50°.		
30-9002	Partial Occlusion Clamp, spoon shape.		
30-9003	Anastomosis Clamp, small.		
30-9004	Anastomosis Clamp, medium.		
30-9005	Anastomosis Clamp, large.		
	CASTANEDA Retractors		
	Length	4 ⁵ / ₁₆ "	(110mm)
50-8060	Sternal Retractor, small.		
50-8061	Sternal Retractor, large.		
30-8500	Vascular Forceps, TITANIUM, two each.		
	Length	6"	(152mm)
19-8150	MIXTER Clamp, smooth jaw.		
	Length	5¼"	(133mm)
21-8010	CASTANEDA Instrument Case		
	Width	7"	(178mm)
	Depth	2"	(51mm)
	Length	11"	(279mm)

TRAYS, STERILIZING, STAINLESS STEEL KITS

21-1001	CODMAN Instrument Case for Anterior Cervical Fusion Instruments		
Width	9"	(229mm)	
Depth	2 ⁵ / ₈ "	(67mm)	
Length	9"	(229mm)	



80-1006 The CODMAN PLIF II Instrument Kit is used in conjunction with the existing CODMAN 80-1005. Together they provide a coordinated approach to posterior lumbar interbody fusion surgery.

Kit includes:

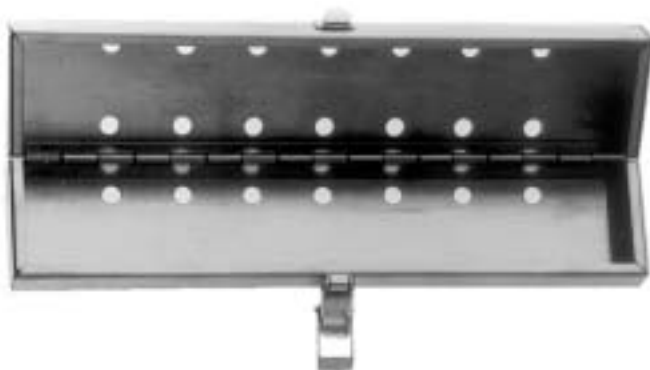
21-1006	CODMAN PLIF II Instrument Case		
	CODMAN CONE Ring Curettes		
23-1020	7mm, angled 50°		
23-1021	7mm, angled 30°		
	CODMAN Elevators		
65-1056	4mm, sharp		
65-1057	6mm, sharp		
65-1058	8mm, sharp		
65-1059	12mm, sharp		
65-1121	3/16", sharp periosteal		
	CODMAN Osteotomes		
46-1019	10mm, 9 1/2", straight		
46-1020	6mm, 7 1/2", curved		
46-1021	6mm, 7 1/2", straight		
46-1022	8mm, 9 1/2", straight		
46-1023	8mm, 9 1/2", full curved		
46-1024	6mm, 9 1/2", slightly curved		
46-1025	6mm, 9 1/2", straight		
46-1062	6mm, 9 1/2", curved		
50-1362	CODMAN ADSON Retractor		
50-1209	CODMAN Flexible Nerve Root Retractor		



TRAYS, STERILIZING, STAINLESS STEEL KITS



- CODMAN DIETHRICH Kit is a collection of instruments designed for use in coronary artery bypass surgery.
- 80-8100** DIETHRICH Kit includes:
DIETHRICH Coronary Artery Scissors
Length 7" (178mm)
- 54-8017** Angled 25°
54-8018 Angled 45°
54-8019 Angled 60°
54-8021 Angled 90°
54-8020 Angled 125°, with stabilizing bar.
- 25-8015** GARRETT Vascular Dilator, set of nine.
Length 8¼" (210mm)
- 19-5580** GEMINI Clamp
Length 7" (179mm)
- 30-8132** DEBAKEY-DIETHRICH Vascular Forceps, two each.
Length 7¾" (197mm)
- 19-8090** DIETHRICH Bulldog Clamps, 8mm, two each.
19-8091 DIETHRICH Bulldog Clamps, 12mm, two each.
45-8002 HEPARIN Tip Needles, three each.
- 21-8000** DIETHRICH Instrument Case
Width 6¾" (171mm)
Depth 2" (51mm)
Length 10½" (267mm)
-



- 21-8005** CODMAN Dilator Case, Stainless Steel.
Length 9" (229mm)
Width 1¾" (44mm)
Depth 1⅞" (29mm)
-

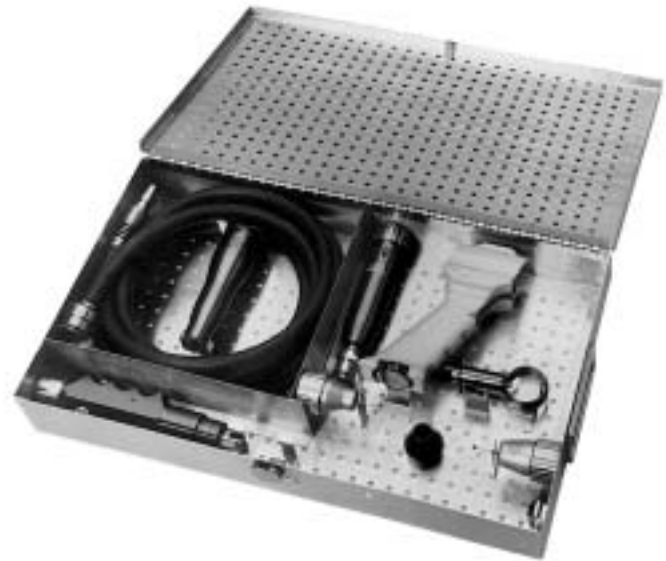
TRAYS, STERILIZING, STAINLESS STEEL KITS

GENERAL

-
- 26-5050** CPS 100,000 RPM Air Drill Set
Includes the following:
 - 26-5020** 100,000 RPM Air Drill
 - 26-5021** Burr Guard, Medium
 - 26-5022** Burr Guard, Long
 - 26-5023** Burr Guard, Codman
 - 26-5024** Air Hose, 10 feet
 - 26-5025** Air Drill Sterilizing Case
-



-
- 26-5040** CPS Modular Air Craniotome Set
Includes the following:
 - 26-5000** Modular Air Driver, Complete
 - 26-5002** 1,000 RPM Modular Attachment
 - 26-5003** Swiveling Dura Guard
 - 26-5004** Wire Pass Drill Guard
 - 26-5008** Fixed Dura Guard
 - 26-5009** Skull Perforator Guard
 - 26-5012** Stabilizing Handle
 - 26-5007** Air Hose, 10 Feet
 - 26-5015** Sterilizing Case
-



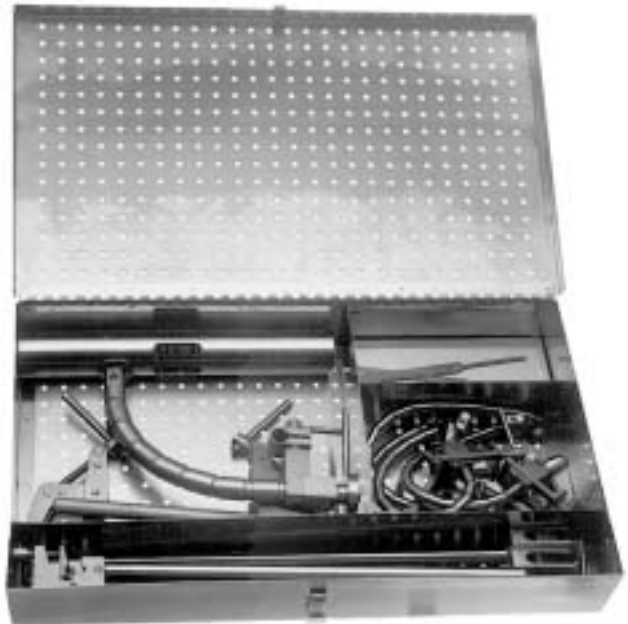
TRAYS, STERILIZING, STAINLESS STEEL KITS



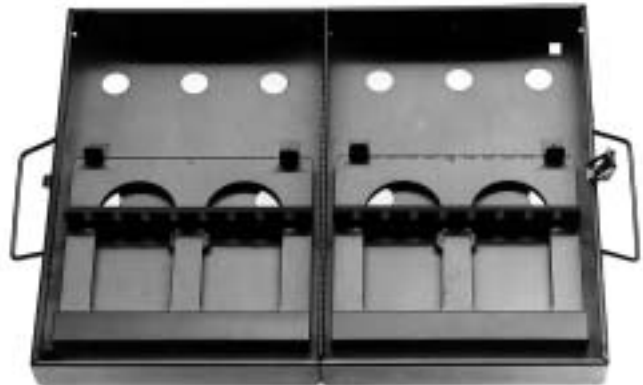
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- | | |
|----------------|--|
| 26-7005 | CODMAN Air Powered Sternum Saw Set
Consists of the following: |
| 26-7006 | CODMAN Air Powered Sternum Saw Handpiece
with Footplate |
| 26-5007 | CODMAN Air Hose, 10 ft. |
| 26-5026 | CODMAN Lubricant |
| 26-7003 | CODMAN Sternum Saw Set Sterilizing Case |
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TRAYS, STERILIZING, STAINLESS STEEL KITS

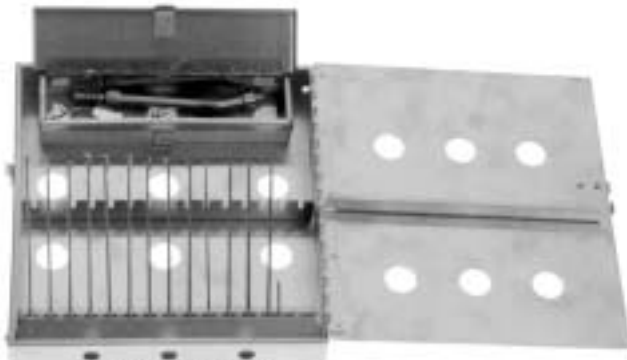
50-1514	GREENBERG Universal Retractor Case, with four compartments for various components.	
	Compartment Dimensions	
	Compartment # 1	Compartment # 2
Length	10 ³ / ₈ " (264mm)	17" (432mm)
Width	7 ³ / ₄ " (197mm)	2 ¹ / ₈ " (54mm)
	Compartment # 3	Compartment # 4
Length	6 ³ / ₄ " (171mm)	6 ³ / ₄ " (171mm)
Width	4 ⁵ / ₈ " (117mm)	3 ¹ / ₈ " (79mm)
	Case Dimensions	
Length	17"	(432mm)
Width	10"	(254mm)
Depth	2 ³ / ₈ "	(60mm)



80-1355	HARDY Instrument Case, with removable panels, holds approximately 16 bayonet dissectors. (does not hold bipolar forceps.)	
Length	11"	(279mm)
Width	7"	(178mm)
Depth	2 ¹ / ₄ "	(57mm)

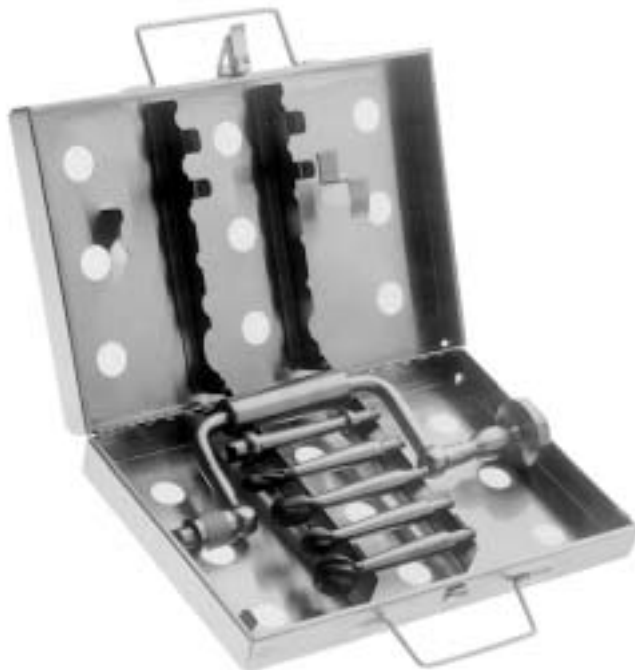


TRAYS, STERILIZING, STAINLESS STEEL KITS



23-1316 case only

23-1316	DUJOVNY Micro Suction Case
Length	8" (203mm)
Width	7" (178mm)
Depth	1" (25mm)



26-1075	HUDSON Cranial Drill Set.
Consists of one of each:	
15-1005 Burr	(9mm)
15-1006 Burr	(14mm)
15-1007 Burr	(16mm)
15-1008 Burr	(22mm)
80-1002	Cerebellar extension
26-1041	Brace
21-1002	Sterilizing case

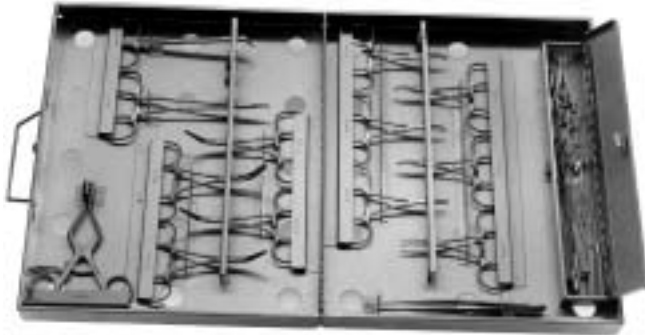
TRAYS, STERILIZING, STAINLESS STEEL KITS

GENERAL



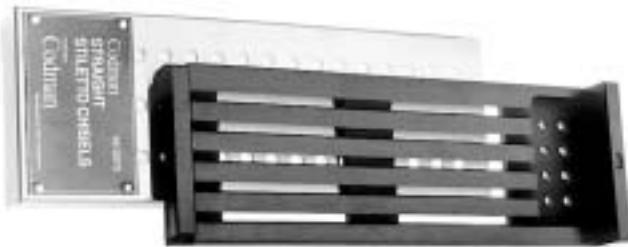
-
- 80-1818** MICROCARE® Case, with removable clip compartment. Holds approximately 15 straight instruments.
- 80-1820) MICROVASC™ STA-MCA Instrument Set.
- | | | |
|--------|------|---------|
| Length | 15" | (381mm) |
| Width | 10½" | (267mm) |
| Depth | 1¼" | (32mm) |
- MICROCARE® cases have a removable lid, extruded silicone rubber bars, hideaway locking handles, and base has nylon-coated pins for extra protection of delicate instruments.
-

TRAYS, STERILIZING, STAINLESS STEEL KITS



80-8010	NOON A-V FISTULA Kit includes:	
19-8091	DIETHRICH Bulldog Clamps, angled, 12mm,	four each.
54-8008	Fine Vascular Scissors, 45°.	
45-8002	HEPARIN Flushing Needle, two each.	
50-4265	ALM Wound Retractor	
50-5647	WEITLANER Retractor, blunt tip.	
25-8035	GARRETT Dilators, set of nine.	
	Length	5½" (140mm)
80-8006	NOON Tunneler	
	Length	9" (229mm)
37-1335	NOON A.V. Fistula Clamps, four each.	
30-4472	Mosquito Forceps, delicate, curved, six each.	
	Length	3⅞" (98mm)
36-3014	RYDER CLASSIC PLUS® Needle Holder, 1mm tip, tungsten carbide jaw insert.	
	Length	6" (152mm)
30-8131	DEBAKEY-DIETHRICH Forceps	
	Length	6" (152mm)
21-8015	NOON Instrument Case	
	Width	9¾" (248mm)
	Depth	2" (51mm)
	Length	12" (305mm)

TRAYS, STERILIZING, STAINLESS STEEL MISCELLANEOUS, SPINAL



46-3070	Straight Stiletto Chisel Set with Case	
	Length	8½" (216mm)
	Set Includes:	
		Tip Size
46-3071	Chisel Straight	¼" (6mm)
46-3072	Chisel Straight	⅜" (10mm)
46-3073	Chisel Straight	½" (13mm)
46-3074	Chisel Straight	⅝" (16mm)
46-3075	Chisel Straight	¾" (19mm)
46-3076	Case for Straight Stiletto Chisel	

TRAYS, STERILIZING, STAINLESS STEEL MISCELLANEOUS, SPINAL

21-1003	SPINAL FUSION CURETTE Storage and Sterilizing Case, holds nine sizes of curettes 23-1061 through 23-1069. Width 7 $\frac{1}{4}$ " (184mm) Length 11 $\frac{3}{4}$ " (299mm)
21-1022	SPINAL FUSION CURETTE Storage and Sterilizing Case, holds nine sizes of curettes. Width 7 $\frac{1}{4}$ " (184mm) Length 9 $\frac{3}{4}$ " (248mm)



21-1020	CODMAN Sterilizing and Carrying Case. Holds eight assorted 11" (279mm) gouges or osteotomes. Length 11 $\frac{1}{4}$ " (298mm) Width 8 $\frac{7}{8}$ " (225mm) Depth (on each side) 1 $\frac{1}{4}$ " (32mm)
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TRAYS, STERILIZING, STAINLESS STEEL MISCELLANEOUS, SPINAL



21-2500	CODMAN Gouge and Osteotome Case, holds seven SMITH-PETERSEN gouges or osteotomes.	
Length	11"	(279mm)
Width	6 ⁷ / ₈ "	(175mm)
Depth	2 ¹ / ₄ "	(57mm)



46-3050	Curved Stiletto Osteotome Set with Case	
	Set Includes:	
	Length	8 ¹ / ₂ " (216mm)
		Tip Size
46-3051	Osteotome, Curved	1/4" (6mm)
46-3052	Osteotome, Curved	3/8" (10mm)
46-3053	Osteotome, Curved	1/2" (13mm)
46-3054	Osteotome, Curved	5/8" (16mm)
46-3055	Osteotome, Curved	3/4" (19mm)
46-3056	Case for Curved Stiletto Osteotome	
46-3060	Straight Stiletto Osteotome Set with Case	
	Set Includes:	
	Length	8 ¹ / ₂ " (216mm)
		Tip Size
46-3061	Osteotome, Straight	1/4" (6mm)
46-3062	Osteotome, Straight	3/8" (10mm)
46-3063	Osteotome, Straight	1/2" (13mm)
46-3064	Osteotome, Straight	5/8" (16mm)
46-3065	Osteotome, Straight	3/4" (19mm)
46-3066	Case for Straight Stiletto Osteotome	

TRAYS, STERILIZING, STAINLESS STEEL MISCELLANEOUS, SPINAL

GENERAL

46-3040 CODMAN Cervical Spanner Set of 6 with Case designed to directly measure the height of the interspace, access soft tissue tension and distract the interspace.

	Set Includes:	Spanner Width
46-3041	Cervical Spanner	5mm
46-3042	Cervical Spanner	6mm
46-3043	Cervical Spanner	7mm
46-3044	Cervical Spanner	8mm
46-3045	Cervical Spanner	9mm
46-3046	Cervical Spanner	10mm
46-3047	Case for Cervical Spanners	



46-3030 CODMAN Lumbar Spanner, Feeler Gauge and Distraction designed to directly measure the height of the interspace, access soft tissue tension and distract the interspace.

	Set Includes:	Spanner Width
46-3031	Lumbar Spanner	9mm
46-3032	Lumbar Spanner	10mm
46-3033	Lumbar Spanner	11mm
46-3034	Lumbar Spanner	12mm
46-3035	Lumbar Spanner	13mm
46-3036	Lumbar Spanner	14mm
46-3037	Case for Lumbar Spanners	



TRAYS, STERILIZING, STAINLESS STEEL MISCELLANEOUS, SPINAL



46-3002 LUMBAR SPONDYLOPHYTE IMPACTION SET
The impaction set is surgeon designed to correct symptomatic spondylophytes. Complementary instruments have been assembled in a set to meet expected indications. Additional (optional) support instruments are available for broader indications. The set includes one (each) of the following:

46-3003 Sterilizing O.R. Display Case

46-3005 Silver Bayonet Dural Suction Retractor
Macro tip $\frac{7}{16}$ " (10mm)

46-3006 Annular Dissector Perforator

46-3007 Offset Central Canal Impactor

46-3009 Lateral Gutter Impactor

46-3012 Black 90° Dural Suction Retractor
Micro tip $\frac{5}{16}$ " (8mm)

46-3003 STERILIZING O. R. DISPLAY CASE
Spondylophyte Impaction Set.

Designed to house impaction set and/or ancillary instruments: three straight handled instruments and a bayonet (black or silver) Dural Suction Retractor;

or:

four straight handled instruments and a black 90° Dural Suction Retractor. Keeper Blade holds instruments in place

Length: 10" (25cm)

Width: $4\frac{1}{2}$ " (11cm)

Thickness: $\frac{5}{8}$ " (16mm)

TRAYS, STERILIZING, LIGHTWEIGHT CABLES/CORDS

80-1830	MICROCARE® Flexible Silicone Mat may be cut to fit most instrument cases.
Length	18" (46cm)
Width	10" (25cm)

24-3130	FIBEROPTIC CABLE Sterilization/Storage Tray, manufactured from a sterilizable plastic material (ULTEM™), with a transparent cover.
Length	11" (279mm)
Width	11" (279mm)
Depth	2½" (64mm)

ULTEM™ is a trademark of General Electric.



TRAYS, STERILIZING, LIGHTWEIGHT INSTRUMENTS

CODMAN's Micro Osseous Dissection Kit is designed for the microsurgical removal of bony, calcified or other firm tissues. These instruments can be used in conjunction with a high speed drill to thin bone before removal.

46-2600	Micro Osseous Dissection Kit Includes: Working Distance: 2¾" (70mm)
46-2601	Micro Rongeur, Bayonet, 40° Up-Bite, 1mm
46-2602	Micro Rongeur, Bayonet, 40° Up-Bite, 2mm
46-2603	Micro Rongeur, Bayonet, 40° Up-Bite, 3mm Working Distance: 3" (76mm)
46-2604	Micro Curette, Bayonet, Straight 00
46-2605	Micro Curette, Bayonet, Straight 000
46-2606	Micro Curette, Bayonet, Straight 0000
46-2607	Micro Curette, Bayonet, 45° Up 00
46-2608	Micro Curette, Bayonet, 45° Up 000
46-2609	Micro Curette, Bayonet, 45° Up 0000
46-2610	Micro Curette, Bayonet, 80° Down 00
46-2611	Micro Curette, Bayonet, 80° Down 000
46-2612	Micro Curette, Bayonet, 80° Down 0000
46-2613	ULTEM® Sterilizing Case for 46-2600



TRAYS, STERILIZING, LIGHTWEIGHT INSTRUMENTS



50-1664	CROCKARD Sterilizing/Storage Case
Length	18" (457mm)
Width	10½" (266mm)
Depth	7¼" (184mm)



80-1568 MICROCARE™ Small Polytec Case, manufactured from a sterilizable plastic material (ULTEM*), with a transparent cover. Includes 10 cradle areas for straight instruments only (including bipolar forceps).

Length	12" (305mm)
Width	10½" (267mm)
Depth	1¾" (44mm)

MICROCARE™ Polytec Cases have silicone bumpers for instrument tip protection.

ULTEM™ is a trademark of General Electric.



80-1566 MICROCARE™ Large Polytec Case, manufactured from a sterilizable plastic material (ULTEM*), with a transparent cover. Includes 20 cradle areas for straight instruments only, three cradle areas for glass rods, also holds two bipolar forceps.

Length	21" (533mm)
Width	13" (330mm)
Depth	1¾" (44mm)

MICROCARE™ Polytec Cases have silicone bumpers for instrument tip protection.

ULTEM™ is a trademark of General Electric.

TRAYS, STERILIZING, LIGHTWEIGHT INSTRUMENTS

80-1865

CODMAN I.M.A. Instrument Case
Two levels for storage. Top tray holds CODMAN I.M.A. kit 80-1849/80-1850, bottom compartment for miscellaneous instruments.



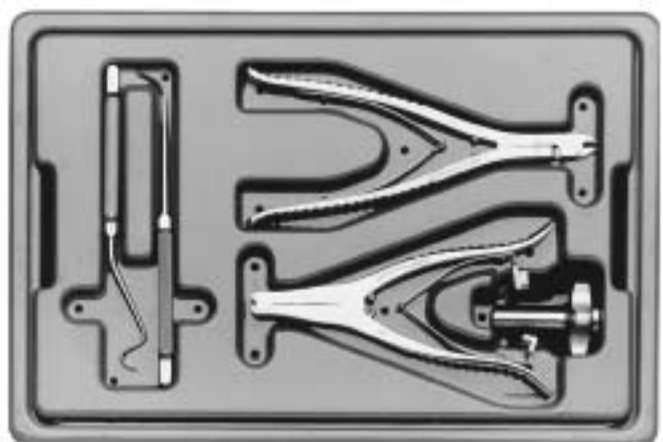
80-1914

MICROCARE Universal Bayonet Instrument Case.
Lightweight, ULTEM* for sterilization and storage. Contains 14 slots for bayonet instruments; separate tray for 3 bayonet dissectors; space around perimeter of case for straight instruments or other surgical devices.
Length 21" (53cm)
Width 13" (33cm)
Depth 1.5" (4cm)



46-4011

CODMAN SOF'WIRE Cable Instrument Tray
For storage/sterilization.



TRAYS, STERILIZING, LIGHTWEIGHT SMALL DEVICES



MICROCARE[®] CIS System, modular 20 compartment color coordinated tray system. Ideally suited for aneurysm clips and other similar sized products. Manufactured from a plastic sterilizable material (ULTEM*), with a transparent cover.

- 80-1580** MICROCARE[®] CIS Large Set, with base tray, four smaller clip trays (20 compartments each), and four reusable inventory cards. Base tray holds up to eight applicators. Includes: MICROCARE[®] Clip Trays, four different colors, 20 individual compartments, and one reusable inventory control card.

Compartment Dimensions

Length	1¼"	(32mm)
Width	1"	(25mm)
Depth	½"	(13mm)

Tray Dimensions

Length	9½"	(241mm)
Width	5½"	(140mm)
Depth	½"	(13mm)

- 80-1581** Blue

- 80-1582** White

- 80-1583** Grey

- 80-1584** Black

- 80-1594** MICROCARE[®] Large Base Tray, with cover, holds four 20 compartment trays, and up to eight applicators.

Length	21"	(533mm)
Width	13"	(330mm)
Depth	1¾"	(44mm)

- 80-1595** MICROCARE[®] Small Base Tray, with cover, holds two 20 compartment trays, and up to four applicators.

Length	12"	(305mm)
Width	10½"	(267mm)
Depth	1½"	(38mm)

*ULTEM™ is a trademark of General Electric.

TRAYS, STERILIZING, LIGHTWEIGHT SMALL DEVICES

GENERAL

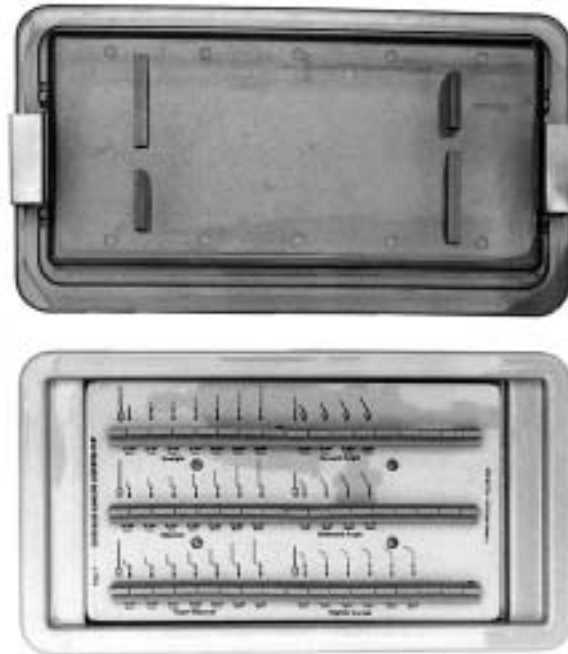
MICROCARE® Polytec Cases with Flexible Insert, manufactured from a sterilizable plastic material (ULTEM*) with transparent covers. Flexible silicone finger inserts provide instrument protection.

80-1597	MICROCARE® Case, medium		
	Length	15½"	(40cm)
	Width	9¾"	(25cm)
	Depth	1¼"	(3cm)
80-1598	MICROCARE® Case, small		
	Length	11"	(28cm)
	Width	7"	(18cm)
	Depth	1"	(3cm)
80-1599	MICROCARE® Case, large		
	Length	21"	(54cm)
	Width	13"	(33cm)
	Depth	1¼"	(3cm)
80-1830	MICROCARE® Flex Mat		
	can be cut to size to fit most cases.		
	Length	18"	(45cm)
	Width	10"	(25cm)



SUNDT MICROCARE Sterilizing/Storage Trays System of Three Lightweight ULTEM* Trays. Soft rubber bars to hold individual clips; code number and drawing of each clip on bottom of tray floor; cover incorporates a holder for applier.

80-1841	#1	11" x 7" x 1¾"	(28cm x 18cm x 4.5cm)
80-1842	#2	11" x 7" x 1¾"	(28cm x 18cm x 4.5cm)
80-1843	#3	11" x 7" x 1¾"	(28cm x 18cm x 4.5cm)



TRAYS, STERILIZING, LIGHTWEIGHT SMALL DEVICES



80-1835 SUNDT SLIM-LINE Mini Aneurysm Clip Microcare Storage/Sterilizing Tray. For #6 and #7 SUNDT SLIM-LINE mini aneurysm clips and appliers. Clip outline and catalog number on tray for easy inventory control.



80-1840 SUNDT AVM Micro Clip Tray
Sterilizing/storage tray made of lightweight ULTEM®. Contains soft rubber bars to hold individual AVM clips in storage cubes. Code numbers and drawings of clips appear on bottom of tray. Rubber holders on cover secure appliers.

Length	11"	(28cm)
Width	7"	(18cm)
Depth	1¾"	(4.5cm)



80-1844 SUNDT SLIM-LINE Graft Clip Tray.
Sterilizing/Storage Tray made of lightweight ULTEM®. Contains soft rubber bars to hold individual clips. Code numbers of clips appear on bottom of tray. Rubber holders on cover secure appliers.

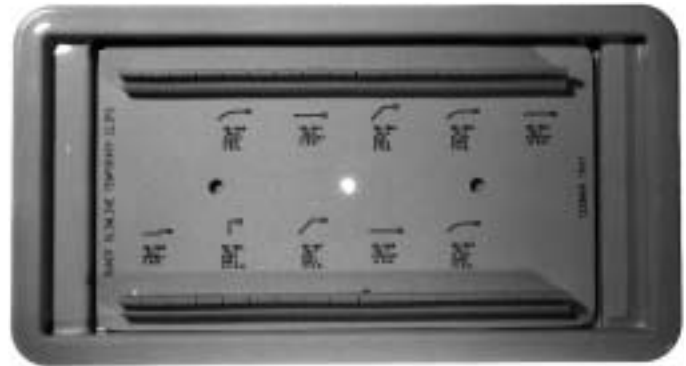
Length	11"	(25cm)
Width	7"	(18cm)
Depth	1¾"	(4.5cm)



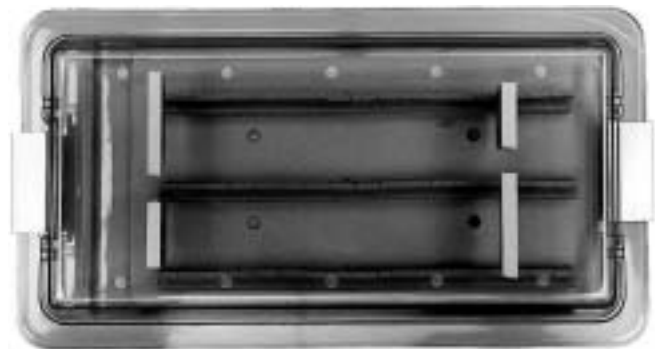
TRAYS, STERILIZING, LIGHTWEIGHT SMALL DEVICES

80-1845 SUNDT SLIM-LINE Temporary Clip Tray
Sterilizing/storage tray made of lightweight ULTEM®. Contains soft rubber bars to hold individual clips. Code numbers and drawings of clips appear on bottom of tray. Rubber holders on cover secure applicators.

Length	11"	(28cm)
Width	7"	(18cm)
Depth	1¾"	(4.5cm)



80-1838 Universal Aneurysm Clip Storage/Sterilizing Case. Made of molded polyetherimide, for most designs of aneurysm clips and clip applicators. Rubber locking grips securely hold aneurysm clips. Rubber grips on the cover hold 2 Aneurysm Clip Applicators in place.



TROCARS



71-4038	DUKE Trocar, in white canvas case.	
	Includes:	
	Trocar	
	Length	4½" (114mm)
	Perforated cannula	
	Length	5⅜" (137mm)
	Straight cannula	
	Open end diameter	17 Fr.
	Length	3½" (89mm)

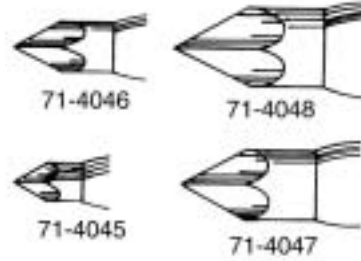


	OCHSNER Gallbladder Trocars	
71-4021	Catheter	10 Fr.
	Trocar	14 Fr.
	Length	6⅛" (156mm)
71-4025	Catheter	16 Fr.
	Trocar	20 Fr.
	Length	6¼" (159mm)

TROCARS

GENERAL

	PATTERSON (NELSON) Empyema Trocars		
	Length	8"	(203mm)
71-4045	No. 1		
71-4046	No. 2		
71-4047	No. 3		
71-4048	No. 4		



VICE GRIPS

37-4101	VICE GRIPS		
	Length	7"	(18cm)



NEEDLE HOLDER SUTURE CHART

Suture Size	Castroviejo (All lengths) 36-1000 thru 1003, 36-1005 thru 1008	Derf Needle Holder 36-1010	Halsey Needle Holder 36-1015, 36-1016	Crile-Wood Needle Holder 36-2000 thru 2005	Mayo-Hegar Needle Holder 36-2015 thru 36-2020	Baumgartner Needle Holder 36-2010	Sarot Needle Holder 36-2020, 36-3021	Rubio Wire Holding Clamp 36-2023	Rubio Needle Holder 36-2024	Microvascular Needle Holder 36-3010, 36-3011	Ryder Needle Holder 36-3000 thru 3005
1.0								X			
2.0					X	X		X			
3.0					X	X		X			
4.0				X	X	X		X			X
5.0		X	X	X			X		X	X	X
6.0	X	X	X	X			X		X	X	X
7.0	X								X	X	
8.0											
9.0											
10.0											

NEEDLE HOLDER SUTURE CHART

GENERAL

Suture Size	1mm Ryder Needle Holder 36-3012 thru 3015, 36-3007, 36-3008, 36-3023, 30-3033	Heaney Needle Holder 36-4010	Olsen-Hegar Needle Holder 36-4000	Wangensteen Needle Holder 36-4020	Sternal Needle Holder 36-2025	Stratte Needle Holder 36-4015	Julian Needle Holder 36-3042, 36-3043	Jones IMA Needle Holder 36-3018, 36-3019	MICROSURGICAL			
									MALIS Needle Holder 80-1510 thru 1515	MICROVASC Needle Holder 80-1800	Rhoton Needle Holder 80-1725 thru 1729	Micro Needle Holder 80-2002, 80-2003, 80-2012, 80-2013
1.0					X		X					
2.0		X			X		X					
3.0		X			X		X					
4.0		X					X					
5.0			X	X		X	X					
6.0			X	X		X	X					
7.0	X			X		X	X	X	X	X	X	X
8.0								X	X	X	X	X
9.0								X	X	X	X	X
10.0								X	X	X	X	

APPROXIMATOR

50-8056 LEMMON Sternal Approximator, adult size with prongs.
Prong depth 1¹/₁₆" (27mm)
Total opening 5" (127mm)
Total length 7¹/₈" (181mm)



CLAMPS AORTA

37-1272 BECK CLASSIC™ Miniature Aorta Clamp, 1x2 vascular teeth.
Jaw length 1¹/₈" (29mm)
Jaw depth 5⁵/₁₆" (7mm)
Total length 6¹/₄" (159mm)



37-4010 CODMAN Clamp, aortic cross-clamp, angled jaws, curved handles. Requires 61mm jaw inserts.
Length 8¹/₂" (21.6cm)

CARDIO-VASCULAR/
THORACIC

CLAMPS AORTA



37-1400 COOLEY CLASSIC™ Aorta Clamp, 1x2 vascular teeth.

Jaw length	2 ⁷ / ₈ "	(73mm)
Jaw depth	1 ¹ / ₁₆ "	(17mm)
Total length	10"	(254mm)



37-1165 DeBAKEY CLASSIC™ Aorta Clamp, spoon-shaped jaws angled on flat, 2x3 vascular teeth.

Jaw length	2 ³ / ₈ "	(60mm)
Total length	10"	(254mm)



37-1015 DIETHRICH CLASSIC™ Aorta Clamp, 1x2 vascular teeth.

Jaw length	1 ³ / ₄ "	(45mm)
Jaw depth	5/ ₈ "	(15mm)
Total length	8 ³ / ₈ "	(213mm)

CLAMPS AORTA

37-1020	KAY CLASSIC™ Aorta Clamp, 1x2 vascular teeth.
Jaw length	2" (51mm)
Jaw depth	1¼" (32mm)
Total length	7½" (191mm)



CARDIO-VASCULAR/
THORACIC

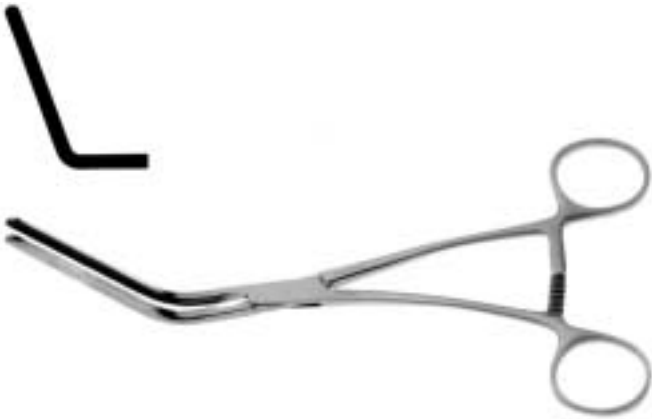
37-1025	LAMBERT-KAY CLASSIC™ Aorta Clamp, 1x2 vascular teeth.
Jaw length	2" (51mm)
Jaw depth	¾" (20mm)
Total length	7¾" (191mm)



37-1021	MATTOX CLASSIC Aorta Clamp, angled handles, 1x2 vascular teeth.
Jaw length	3" (77mm)
Total length	8¾" (222mm)



CLAMPS AORTA



	MORRIS CLASSIC™ Aorta Clamps, 2x3 vascular teeth.		
37-1700	Jaw length	3"	(76mm)
	Total length	7¾"	(197mm)
37-1701	Jaw length	3"	(76mm)
	Total length	10⅝"	(264mm)



37-1026	OCHSNER CLASSIC™ Aorta Clamp, 1x2 vascular teeth.		
	Jaw length	2⅛"	(55mm)
	Jaw depth	¾"	(18mm)
	Total length	10⅝"	(264mm)



37-1024	REUL CLASSIC™ Aorta Clamp, partial occlusion, 2x2 vascular teeth.		
	Jaw length	2⅛"	(55mm)
	Jaw depth	⅝"	(15mm)
	Total length	10"	(254mm)

CLAMPS AORTA

37-1273	SUBRAMANIAN CLASSIC™ Miniature Aorta Clamp, 1x2 vascular teeth.		
	Jaw length	1 ¹³ / ₁₆ "	(30mm)
	Total length	6 ¹ / ₄ "	(146mm)



CARDIO-VASCULAR/
THORACIC

CLAMPS AORTIC ANEURYSM

	DeBAKEY CLASSIC™ Aortic Aneurysm Clamps, 1x2 vascular teeth.		
37-1140	Jaw length	3"	(76mm)
	Total length	9"	(229mm)
37-1141	Jaw length	3 ³ / ₈ "	(85mm)
	Total length	10 ¹ / ₂ "	(267mm)
37-1142	Jaw length	4"	(102mm)
	Total length	12"	(305mm)
37-1143	Jaw length	4 ³ / ₄ "	(120mm)
	Total length	12 ¹ / ₂ "	(318mm)

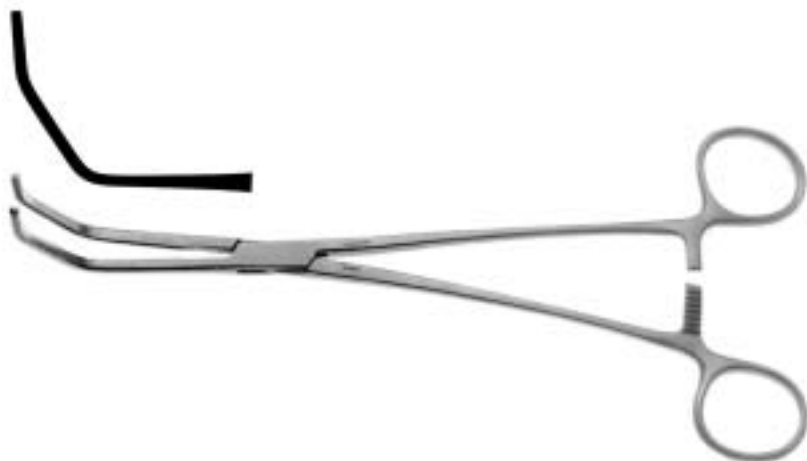


CLAMPS AORTIC EXCLUSION



37-1120	DeBAKEY CLASSIC™ Aortic Exclusion Clamp, acute S-shape, 1x2 vascular teeth.
Jaw length	3" (76mm)
Jaw depth	9/16" (14mm)
Total length	7 1/2" (191mm)

CLAMPS AURICLE



37-1105	GLOVER CLASSIC™ Auricle Appendage Clamp, 1x2 vascular teeth.
Jaw length	2" (52mm)
Jaw depth	1/4" (7mm)
Total length	9 3/4" (248mm)

CLAMPS A-V FISTULA

37-1335	NOON CLASSIC™ A-V Fistula Clamp, angled 50°, 1x2 vascular teeth.
Jaw length	1" (25mm)
Total length	4½" (114mm)



CARDIO-VASCULAR/
THORACIC

CLAMPS BRONCHUS

37-1035	LEES CLASSIC™ Bronchus Clamp, 1x2 vascular teeth.
Jaw length	1⅝" (41mm)
Total length	9½" (241mm)
See also CLAMPS Vascular, LEES CLASSIC™ 37-1030	



CLAMPS BRONCHUS



SAROT Bronchus Clamps, toothed jaw.			
19-8167	Left		
	Jaw length	1½"	(38mm)
	Total length	9"	(229mm)
19-8168	Right		
	Jaw length	1½"	(38mm)
	Total length	9"	(229mm)

CLAMPS BULLDOG



COOLEY Bulldog Clamps, straight.			
37-4024	Jaw length, 2cm		
	Length	2"	(5cm)
37-4025	Jaw length, 1.8cm		
	Length	1¾"	(4.5cm)

CLAMPS BULLDOG

CARDIO-VASCULAR/
THORACIC

DeBAKEY CLASSIC™ Bulldog Clamps, cross-action, 1x2 vascular teeth.

Tension 6 lbs. (2.7kg)

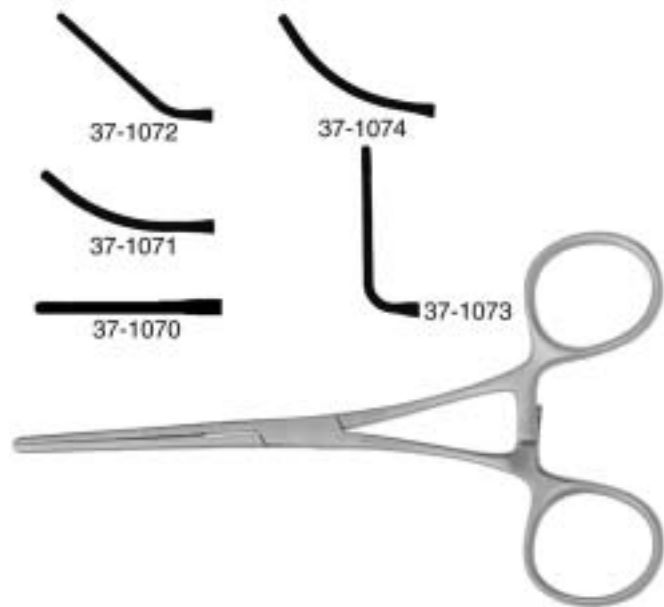
Straight

37-1040	Jaw length	3/4"	(20mm)
	Total length	3 1/8"	(79mm)
37-1041	Jaw length	1 1/4"	(30mm)
	Total length	3 1/2"	(89mm)
37-1042	Jaw length	1 3/4"	(45mm)
	Total length	4 1/8"	(105mm)
37-1043	Jaw length	2 1/2"	(65mm)
	Total length	5"	(127mm)
	Curved		
37-1044	Jaw length	3/4"	(20mm)
	Total length	3"	(76mm)
37-1045	Jaw length	1 3/16"	(30mm)
	Total length	3 3/8"	(86mm)
37-1046	Jaw length	1 3/4"	(45mm)
	Total length	4 1/8"	(105mm)
37-1047	Jaw length	2 1/2"	(65mm)
	Total length	4 3/4"	(121mm)



DeBAKEY CLASSIC™ Bulldog Clamps, ring handle, 1x2 vascular teeth.

37-1070	Straight		
	Jaw length	1 9/16"	(38mm)
	Total length	5 3/8"	(137mm)
37-1071	Curved		
	Jaw length	1 9/16"	(38mm)
	Total length	5"	(127mm)
37-1072	Angled 45°, curved shafts.		
	Jaw length	1 5/8"	(41mm)
	Total length	5"	(127mm)
37-1073	Angled 90°, straight shafts.		
	Jaw length	1 5/8"	(41mm)
	Total length	3 3/4"	(95mm)
37-1074	S-shaped, curved jaws, curved shafts.		
	Jaw length	1 9/16"	(38mm)
	Total length	5"	(127mm)



CLAMPS BULLDOG



DIETHRICH Bulldog Clamps Tension 55 gms.			
	Jaw length	5/16"	(8mm)
	Total length	1 3/4"	(45mm)
19-8090	Angled		
19-8092	Straight		
	Jaw length	1/2"	(12mm)
	Total length	1 5/16"	(48mm)
19-8091	Angled		
19-8093	Straight		
	Jaw length	3/4"	(20mm)
	Total length	2 1/4"	(53mm)
19-8095	Angled		
19-8094	Straight		



DIETHRICH Modified Tension Bulldog Clamps Tension 180 gms.			
	Jaw length	1/2"	(12mm)
	Total length	1 3/4"	(44mm)
19-8097	Angled		
19-8099	Straight		



GLOVER CLASSIC™ Bulldog Clamps, 1x2 vascular teeth.			
	Straight		
37-1050	Jaw length	3/4"	(18mm)
	Total length	2 3/4"	(70mm)
37-1051	Jaw length	1 1/16"	(27mm)
	Total length	3 1/8"	(79mm)
37-1052	Jaw length	1 3/4"	(43mm)
	Total length	3 3/4"	(95mm)
37-1053	Jaw length	2 3/8"	(60mm)
	Total length	4 1/2"	(114mm)

CLAMPS BULLDOG

CARDIO-VASCULAR/
THORACIC

GLOVER CLASSIC™ Bulldog Clamps, 1x2
vascular teeth.

	Curved		
37-1054	Jaw length	1 ¹ / ₁₆ "	(17 mm)
	Total length	2 ¹ / ₂ "	(65mm)
37-1055	Jaw length	1"	(26mm)
	Total length	3"	(76mm)
37-1056	Jaw length	1 ⁵ / ₈ "	(40mm)
	Total length	3 ³ / ₈ "	(86mm)
37-1057	Jaw length	2 ³ / ₁₆ "	(55mm)
	Total length	4 ¹ / ₈ "	(105mm)



GREGORY CLASSIC™ Bulldog Clamps, 1x2
vascular teeth.

	Tension	3.5 lbs	(1.5kg)
37-1048	Angled, short		
	Jaw length	1 ¹⁵ / ₁₆ "	(48mm)
	Total length	3 ¹ / ₂ "	(89mm)
37-1060	Straight, short		
	Jaw length	1 ³ / ₁₆ "	(30mm)
	Total length	3 ¹ / ₂ "	(89mm)
37-1061	Straight, long		
	Jaw length	1 ³ / ₄ "	(45mm)
	Total length	4 ¹ / ₄ "	(108mm)
37-1062	Angled, long		
	Jaw length	2 ¹ / ₈ "	(55mm)
	Total length	4 ¹ / ₄ "	(108mm)



JACOBSON Bulldog Clamps,
serrated jaw (2.1cm).

	Length	1 ³ / ₄ "	(4.5cm)
37-4021	Curved		
37-4023	Straight		



CLAMPS BULLDOG



JOHNS HOPKINS Bulldog Clamps		
	Serrated	
	Jaw length	3/8" (10mm)
	Total length	1 1/2" (38mm)
	Closing Pressure	6lbs.
19-8070	Straight	
19-8080	Curved	
	Jaw length	5/8" (15mm)
	Total length	2" (51mm)
	Closing Pressure	6lbs.
19-8071	Straight	
19-8081	Curved	
	Jaw length	3/4" (20mm)
	Total length	2 1/4" (57mm)
	Closing Pressure	9lbs.
19-8072	Straight	
19-8082	Curved	
	Jaw length	1 1/4" (30mm)
	Total length	2 1/2" (64mm)
	Closing Pressure	6lbs.
19-8073	Straight	
19-8083	Curved	

WELDON Miniature Bulldog Clamps, serrated jaws.		
37-4022	Straight	
	Jaw length, 1.3cm	
	Length	1 3/8" (3.4cm)
37-4026	Curved	
	Jaw length, 1.8cm	
	Length	1 1/4" (3.2cm)

CLAMPS CARDIOVASCULAR

CARDIO-VASCULAR/
THORACIC



These Codman clamps permit total occlusion with minimal trauma, will not damage intima or media, and do not penetrate vessel walls. Replaceable jaw inserts must be ordered separately.

For aortic aneurysms and pulmonary gastrointestinal procedures.

37-4009

CODMAN Clamp, similar to FOGARTY* Hydragrip®. Angled jaws, curved handles. Requires 86mm jaw inserts.

Length 9¼" (23.5cm)

*FOGARTY Hydragrip is a registered trademark of Baxter International, Inc.

CODMAN Clamp, similar to FOGARTY* Hydragrip®. Requires 33mm jaw inserts.

37-4014

Straight

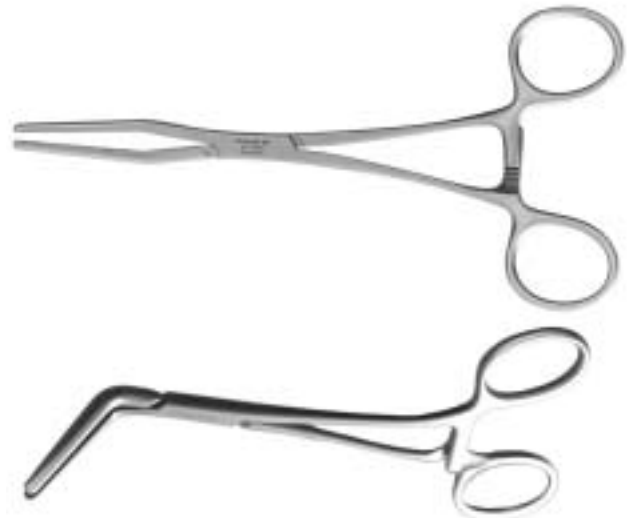
Length 6½" (16.5cm)

37-4015

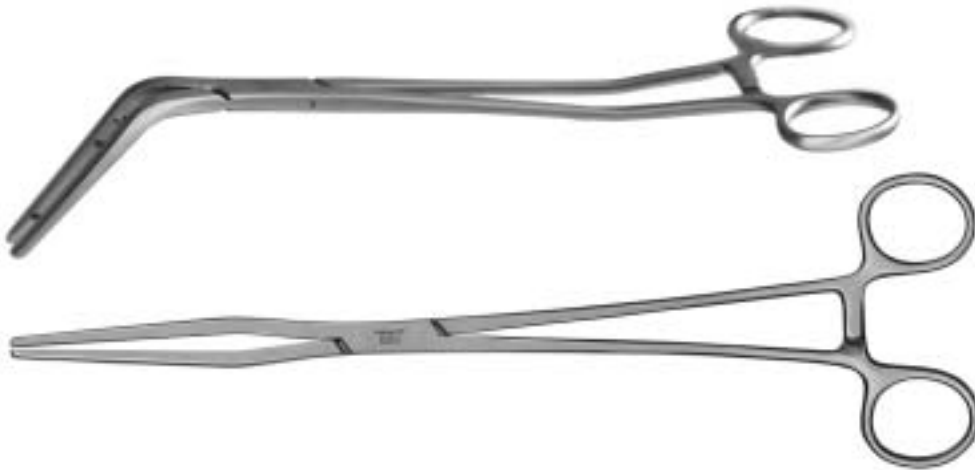
Angled jaw

Length 4⅝" (11.8cm)

*FOGARTY Hydragrip is a registered trademark of Baxter International, Inc.



CLAMPS CARDIOVASCULAR



	CODMAN Clamp, similar to FOGARTY* Hydragrip®. Requires 61mm jaw inserts.		
37-4012	Angled jaw		
	Length	8¾"	(22.2cm)
37-4013	Straight		
	Length	11½"	(29.2cm)

*FOGARTY Hydragrip is a registered trademark of Baxter International, Inc.



37-4008	CODMAN Clamp, similar to FOGARTY* Hydragrip®. Requires 86mm jaw inserts.		
	Straight		
	Length	12¼"	(31.1cm)

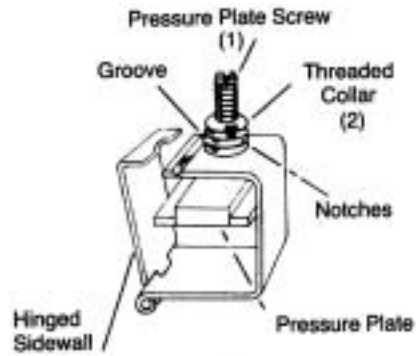
*FOGARTY Hydragrip is a registered trademark of Baxter International, Inc.

CLAMPS CAROTID ARTERY

CARDIO-VASCULAR/
THORACIC

19-1014 SALIBI Carotid Artery Clamp
 The emerging stem (1) is a handle for the clamp and also a cannula-like groove into which the other instruments are applied.
 The threaded cap (2) screws onto exposed end of emerging stem when not in use.
 The screwdriver guide (3), with two projecting tip teeth which fit into the notches of the threaded collar holds the guide while the pressure plate screw is being tightened. This guide also holds the clamp securely while removing emerging stem after artery is occluded.
 The calibrated screwdriver (4) is used for increasing or decreasing the intensity of occlusion.

20-5020 SALIBI Carotid Artery Clamp Tools



19-1014



20-5020



(3)

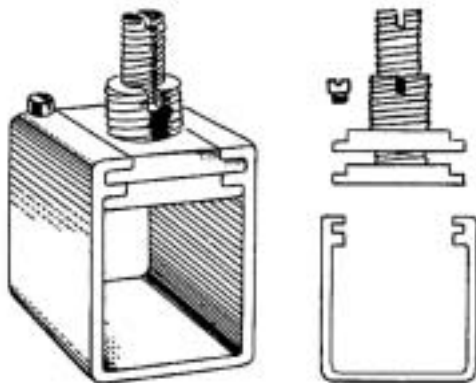


(4)

JAVID Carotid Artery Bypass Clamps, angled jaws.			
37-4019	Length	7"	(17.8cm)
	6mm ring		
37-4020	Length	6¼"	(15.9cm)
	4mm ring		



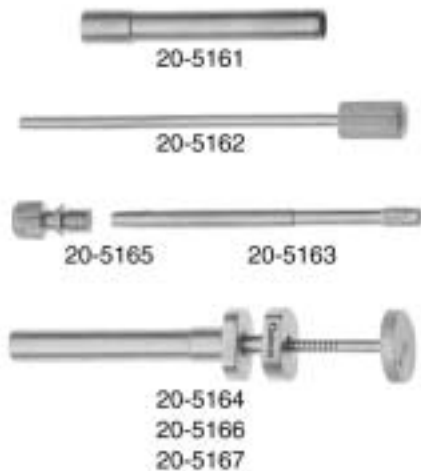
CLAMPS CAROTID ARTERY



SELVERSTONE Carotid Artery Clamps, used for the gradual occlusion of the internal carotid artery, the emerging stem may be removed without disturbing the vessel and the clamp may remain on the vessel permanently.

19-1000	Standard	Width	7.5mm
		Opening	6mm
19-1003	Large	Width	9.5mm
		Opening	8.5mm

316L Stainless Steel



SELVERSTONE Carotid Artery Clamp Tools

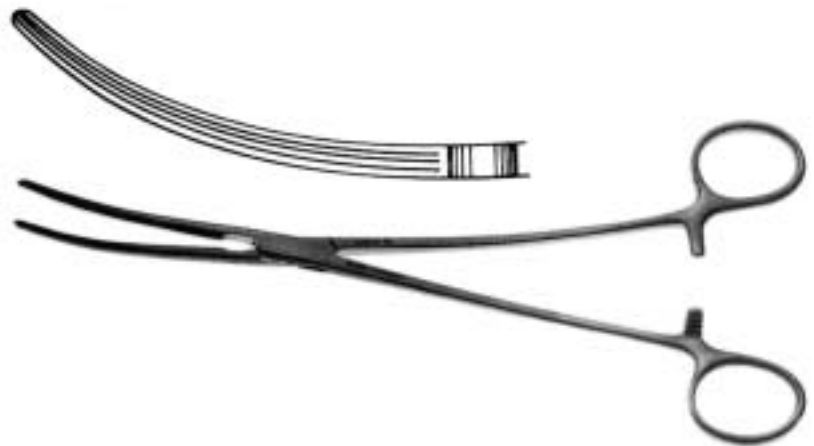
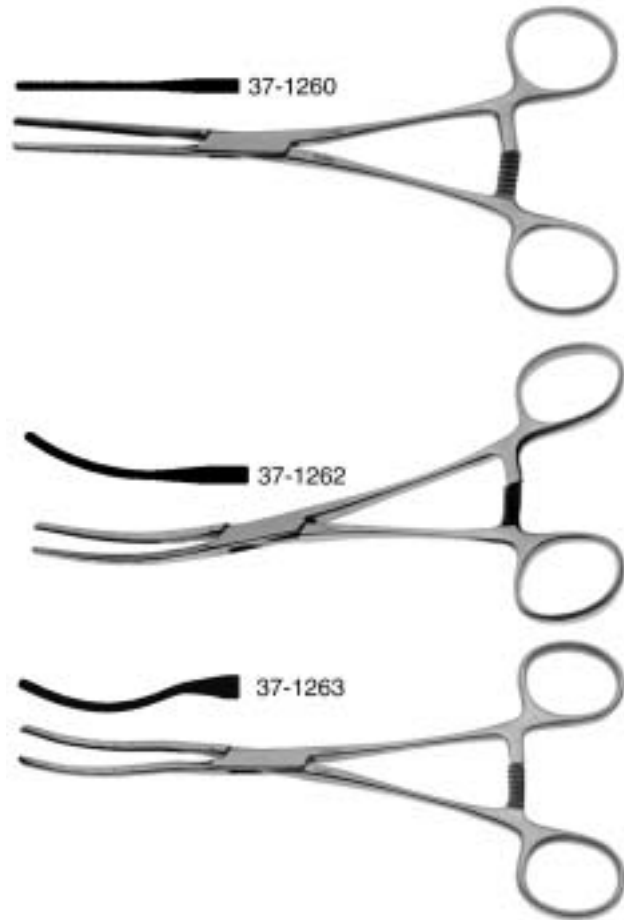
- 20-5160** Complete set which includes:
- 20-5161** Threaded Tube, to manipulate the pressure-plate assembly
 - 20-5162** Screw Driver, for loosening or tightening set screw
 - 20-5163** Screw Holder, to remove or to start the set screw
 - 20-5164** Stem, screws onto outer thread of the pressure-plate assembly and emerges through a stab wound in the neck
 - 20-5165** Threaded Plug, occludes the exposed portion of the stem
 - 20-5166** Screw Driver Guide, stabilizes the clamp for removal of stem, after total occlusion, without producing torque
 - 20-5167** Calibrated Screw Driver, to increase or decrease degree of occlusion

It is recommended that a second set of tools be kept at hand in case of loss or misplacement.

CLAMPS COARCTATION

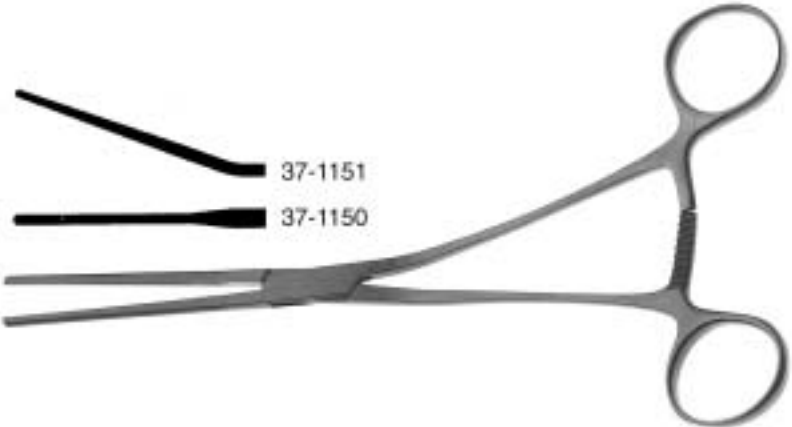
CARDIO-VASCULAR/
THORACIC

COOLEY CLASSIC™ Coarctation Clamps, calibrated jaws, 2x2 vascular teeth.			
37-1260	Straight jaws, straight shafts		
	Jaw length	1 ⁵ / ₈ "	(40mm)
	Total length	6 ³ / ₄ "	(171mm)
37-1261	Straight jaws, angled shafts		
	Jaw length	1 ⁵ / ₈ "	(40mm)
	Total length	6 ³ / ₄ "	(171mm)
37-1262	Curved jaws, straight shafts		
	Jaw length	1 ⁵ / ₈ "	(40mm)
	Total length	6 ³ / ₄ "	(171mm)
37-1263	Spoon-shaped jaws		
	Jaw length	1 ³ / ₄ "	(45mm)
	Total length	7"	(178mm)

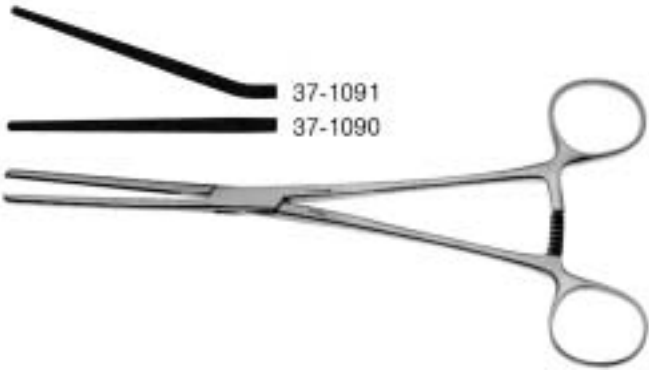


19-8104	CRAFOORD Coarctation Clamps curved jaws.		
	Jaw length	2 ¹ / ₂ "	(63mm)
	Total length	9 ¹ / ₂ "	(241mm)

CLAMPS COARCTATION



	DeBAKEY CLASSIC™ Coarctation and Peripheral Vascular Clamps, 1x2 vascular teeth.	
37-1150	Straight	
	Jaw length	2 1/8" (55mm)
	Total length	8 1/2" (216mm)
37-1151	Angular	
	Jaw length	2 1/8" (55mm)
	Total length	8 3/8" (213mm)



	GLOVER CLASSIC™ Coarctation Clamps, 1x2 vascular teeth.	
37-1090	Straight	
	Jaw length	2 1/8" (55mm)
	Total length	8 1/2" (216mm)
37-1091	Angular	
	Jaw length	2 1/8" (55mm)
	Total length	8 1/2" (216mm)

CLAMPS CRILE

	CRILE-TYPE Clamp, serrated jaws.		
	Length	7½"	(19.1cm)
37-4037	Curved jaw	1½"	(3.8cm) long



CLAMPS ILIAC

	COOLEY CLASSIC™ Iliac Clamps, angled shaft, 2x2 vascular teeth.		
37-1401	Jaw length	2¾"	(60mm)
	Total length	10"	(254mm)
37-1402	Jaw length	2¾"	(60mm)
	Total length	8½"	(216mm)

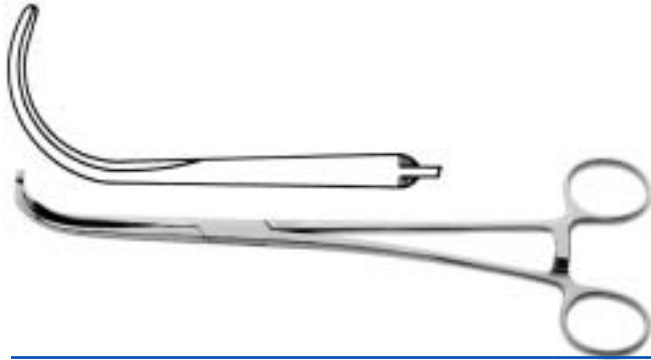


CARDIO-VASCULAR/
THORACIC

CLAMPS LIGATURE CARRYING



37-1132 DeBAKEY-SEMB CLASSIC™ Ligature Carrying Forceps, 1x2 vascular teeth.
Length of serrations $\frac{5}{8}$ " (15mm)
Jaw length $2\frac{1}{4}$ " (57mm)
Total length 10" (254mm)



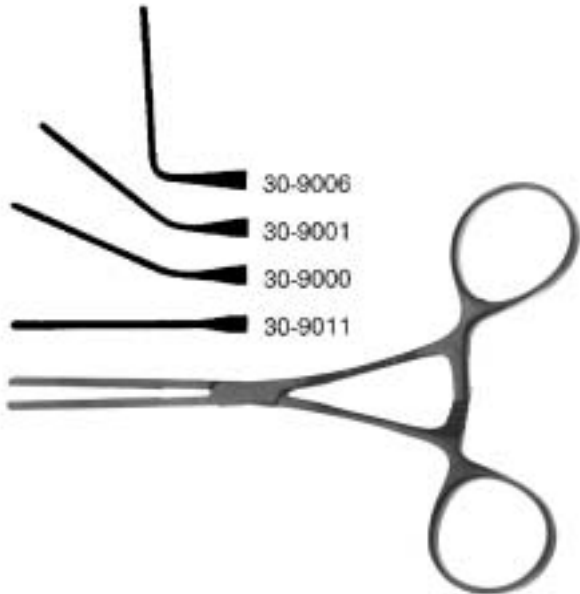
30-8056 SEMB Ligature Carrying Forceps, acute curve.
Length $9\frac{1}{2}$ " (241mm)

CLAMPS MULTI-PURPOSE

CARDIO-VASCULAR/
THORACIC

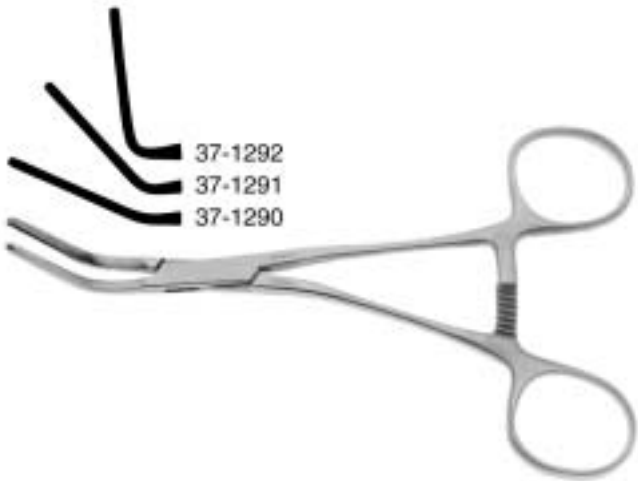
CASTANEDA Multi-Purpose Clamps

	Jaw length	1 $\frac{3}{8}$ "	(35mm)
	Total length	5"	(127mm)
30-9000		30° angle	
30-9001		50° angle	
30-9006		90° angle	
30-9011		Straight	



COOLEY CLASSIC™ Multi-Purpose Clamps, calibrated jaws, 2x2 vascular teeth.

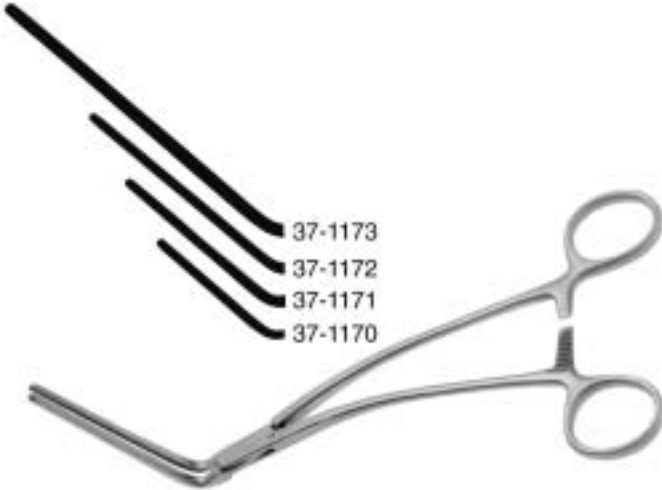
37-1290		30° angle	
	Jaw length	1 $\frac{3}{16}$ "	(30mm)
	Total length	6 $\frac{1}{2}$ "	(165mm)
37-1291		60° angle	
	Jaw length	1 $\frac{3}{16}$ "	(30mm)
	Total length	6"	(152mm)
37-1292		90° angle	
	Jaw length	1 $\frac{3}{16}$ "	(30mm)
	Total length	5 $\frac{1}{2}$ "	(140mm)



CLAMPS MULTI-PURPOSE



DeBAKEY CLASSIC™ Multi-Purpose Clamps, 1x2 vascular teeth.			
37-1320	30° angle		
	Jaw length	1 $\frac{3}{8}$ "	(35mm)
	Total length	6 $\frac{1}{2}$ "	(165mm)
37-1321	60° angle		
	Jaw length	1 $\frac{3}{8}$ "	(35mm)
	Total length	6"	(152mm)
37-1322	90° angle		
	Jaw length	1 $\frac{3}{8}$ "	(35mm)
	Total length	6"	(152mm)



DeBAKEY CLASSIC Multi-Purpose Clamps, 60° angle, 1x2 vascular teeth.			
37-1170	Jaw length	1 $\frac{5}{8}$ "	(40mm)
	Total length	9 $\frac{5}{8}$ "	(244mm)
37-1171	Jaw length	2"	(50mm)
	Total length	8"	(203mm)
37-1172	Jaw length	2 $\frac{3}{4}$ "	(70mm)
	Total length	9 $\frac{1}{2}$ "	(241mm)
37-1173	Jaw length	4"	(100mm)
	Total length	12"	(305mm)

CLAMPS MULTI-PURPOSE



CARDIO-VASCULAR/
THORACIC

DeBAKEY CLASSIC™ Multi-Purpose Clamps,
90° angle, 1x2 vascular teeth.

37-1180	Jaw length	1 ⁵ / ₈ "	(40mm)
	Total length	8 ³ / ₄ "	(222mm)
37-1181	Jaw length	2"	(50mm)
	Total length	7"	(178mm)
37-1182	Jaw length	2 ³ / ₄ "	(70mm)
	Total length	8 ¹ / ₂ "	(216mm)
37-1183	Jaw length	4"	(100mm)
	Total length	10 ¹ / ₂ "	(267mm)

CLAMPS PATENT DUCTUS



COOLEY CLASSIC™ Patent Ductus Clamps,
straight jaws, 2x2 vascular teeth.

37-1250	Straight shaft		
	Jaw length	1 ³ / ₁₆ "	(30mm)
	Total length	6 ¹ / ₄ "	(159mm)
37-1251	Angular shaft		
	Jaw length	1 ³ / ₁₆ "	(30mm)
	Total length	6 ¹ / ₄ "	(159mm)

CLAMPS PATENT DUCTUS



DeBAKEY CLASSIC™ Patent Ductus and Peripheral Vascular Clamps, 1x2 vascular teeth.			
37-1160	Straight shaft		
	Jaw length	1 $\frac{3}{16}$ "	(30mm)
	Total length	7 $\frac{1}{2}$ "	(191mm)
37-1161	Angular shaft		
	Jaw length	1 $\frac{3}{16}$ "	(30mm)
	Total length	7 $\frac{1}{2}$ "	(191mm)



GLOVER CLASSIC™ Patent Ductus Clamps, 1x2 vascular teeth.			
37-1085	Straight shaft		
	Jaw length	1 $\frac{3}{16}$ "	(30mm)
	Total length	8"	(203mm)
37-1086	Angular shaft		
	Jaw length	1 $\frac{3}{16}$ "	(30mm)
	Total length	8"	(203mm)

CLAMPS PERIPHERAL VASCULAR



37-1110	DeBAKEY CLASSIC™ Peripheral Vascular Clamp, angled, 1x2 vascular teeth.		
	Jaw length	2 $\frac{1}{2}$ "	(65mm)
	Total length	7"	(178mm)

CLAMPS PERIPHERAL VASCULAR

37-1115 DeBAKEY CLASSIC Peripheral Vascular Clamp, S-shaped, 1x2 vascular teeth.
 Jaw length 3" (75mm)
 Jaw depth 5/16" (8mm)
 Total length 8" (203mm)



37-1125 DeBAKEY CLASSIC Peripheral Vascular Clamp, curved, 1x2 vascular teeth.
 Jaw length 1 5/8" (41mm)
 Jaw depth 5/16" (8mm)
 Total length 6 1/2" (165mm)



LELAND JONES CLASSIC Peripheral Vascular Clamps, 1x2 vascular teeth.
 Jaw length 2 5/8" (67mm)
 Total length 7 1/2" (191mm)
37-1080 15° angle
37-1081 30° angle



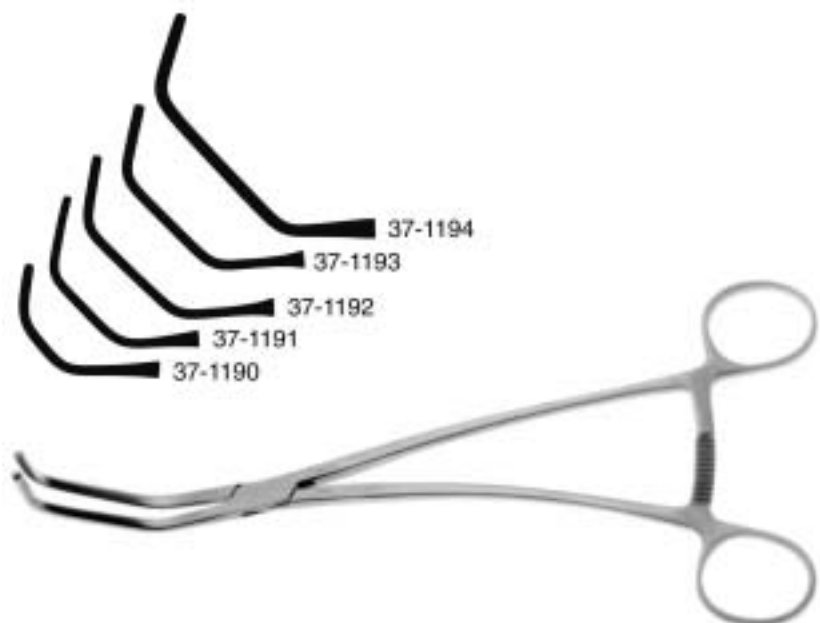
CLAMPS RENAL ARTERY

CLASSIC Renal Artery Clamps, blades calibrated at 5mm intervals, curved shafts, 2x2 vascular teeth.
37-1240 Jaw length 5/8" (15mm)
 Total length 7 1/4" (185mm)
37-1241 Jaw length 1" (25mm)
 Total Length 7 11/16" (195mm)
37-1242 Jaw length 1" (25mm)
 Total length 10 5/8" (270mm)



CARDIO-VASCULAR/
THORACIC

CLAMPS TANGENTIAL OCCLUSION



DeBAKEY CLASSIC™ Tangential Occlusion Clamps, 1x2 vascular teeth.			
37-1190	Jaw length	1 $\frac{5}{8}$ "	(40mm)
	Jaw depth	$\frac{1}{2}$ "	(13mm)
	Total length	7 $\frac{1}{2}$ "	(191mm)
37-1191	Jaw length	1 $\frac{15}{16}$ "	(48mm)
	Jaw depth	$\frac{5}{8}$ "	(15mm)
	Total length	9 $\frac{3}{4}$ "	(248mm)
37-1192	Jaw length	2 $\frac{3}{8}$ "	(60mm)
	Jaw depth	$\frac{5}{8}$ "	(15mm)
	Total length	10"	(254mm)
37-1193	Jaw length	2 $\frac{3}{8}$ "	(60mm)
	Jaw depth	$\frac{5}{8}$ "	(15mm)
	Total length	10 $\frac{1}{4}$ "	(260mm)
37-1194	Jaw length	3"	(75mm)
	Jaw depth	$\frac{5}{8}$ "	(15mm)
	Total length	10 $\frac{5}{8}$ "	(270mm)

CLAMPS TUBING

CARDIO-VASCULAR/
THORACIC



19-8010	CODMAN Tubing Clamp, should be used with tubing no larger than 1/4" in diameter.		
	Jaw length to cuff	15/16"	(32mm)
	Length	7 1/2"	(191mm)

19-4133	TUBING Clamp, cross-hatched jaws.		
	Jaw length	1 3/4"	(45mm)
	Tubing jaw length	1"	(25mm)
	Tubing jaw opening with closed ratchets	1/8"	(3mm)
	Length	6 1/2"	(165mm)



CLAMPS VASCULAR

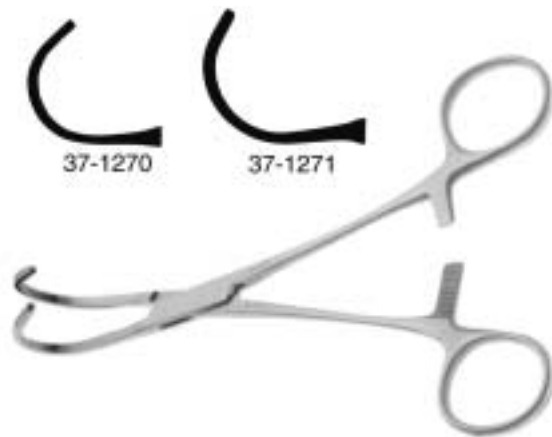
37-1225	Anastomosis CLASSIC Clamp, blades calibrated at 5mm intervals, 2x2 vascular teeth.		
	Jaw length	1 5/8"	(40mm)
	Jaw depth	3/4"	(20mm)
	Total length	6 1/2"	(165mm)



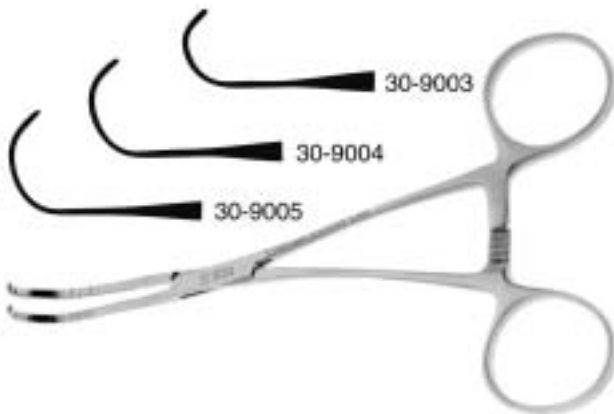
CLAMPS VASCULAR



37-1305	BARTLEY CLASSIC Anastomosis Clamp, blades calibrated at 5mm intervals, 2x2 vascular teeth.	
	Jaw length	1" (25mm)
	Jaw depth	1/2" (13mm)
	Total length	5 1/2" (140mm)



	BECK CLASSIC Vessel Clamp, blades calibrated at 5mm intervals, 2x2 vascular teeth.	
37-1270	Small	
	Jaw length	1" (25mm)
	Jaw depth	3/8" (10mm)
	Total length	6" (152mm)
37-1271	Large	
	Jaw length	1 3/16" (30mm)
	Jaw depth	3/8" (10mm)
	Total length	6" (152mm)



	CASTANEDA Anastomosis Clamps	
30-9003	Jaw length	5/8" (15mm)
	Jaw depth	1/5" (5mm)
	Total length	6" (152mm)
30-9004	Jaw length	3/4" (18mm)
	Jaw depth	1/4" (6mm)
	Total length	6" (152mm)
30-9005	Jaw length	7/8" (21mm)
	Jaw depth	1/3" (7mm)
	Total length	6" (152mm)

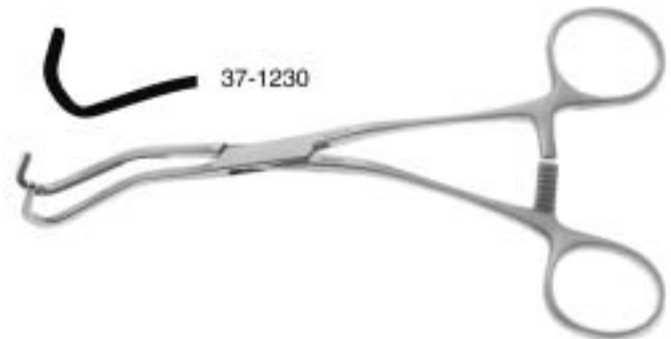
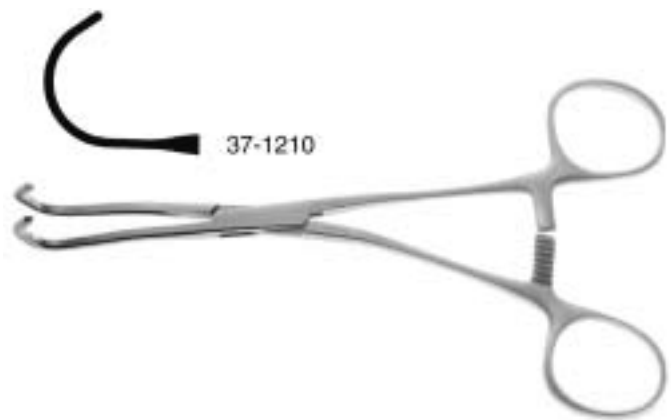
CLAMPS VASCULAR

30-9002	CASTANEDA Partial Occlusion Clamp, spoon-type.		
	Jaw length	15/16"	(24mm)
	Jaw depth	5/16"	(8mm)
	Total length	4 3/4"	(121mm)

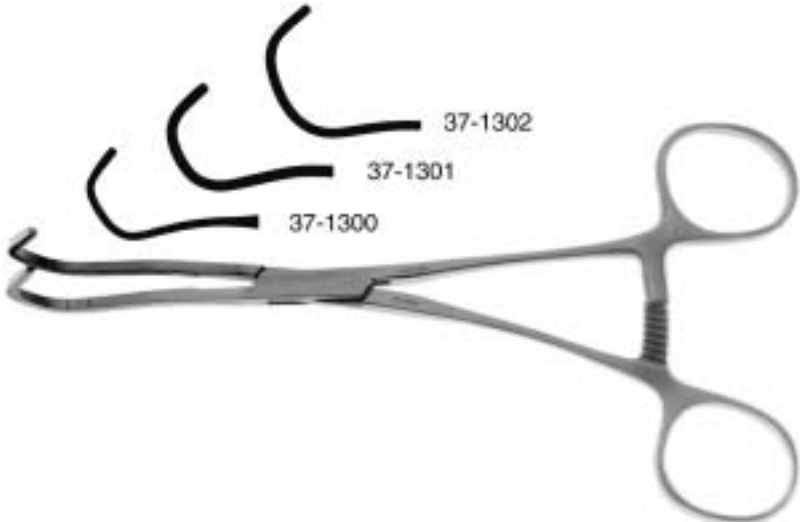


CARDIO-VASCULAR/
THORACIC

	COOLEY CLASSIC Anastomosis Clamps, blades calibrated at 5mm intervals, 2x2 vascular teeth.		
	Jaw length	3/4"	(20mm)
	Jaw depth	1/4"	(6mm)
	Total length	6 1/2"	(165mm)
37-1210	Standard		
37-1230	Modified, 30° side angle		



CLAMPS VASCULAR



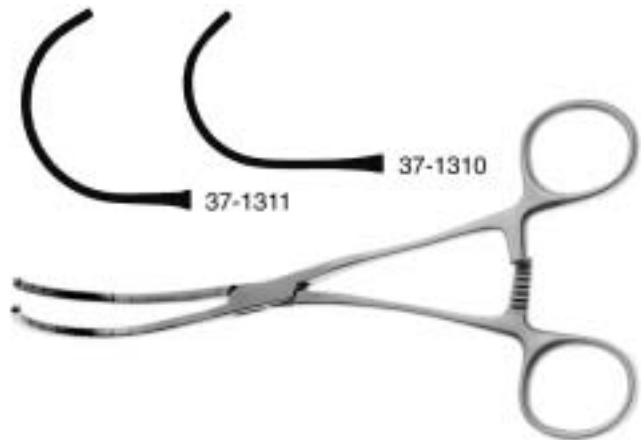
COOLEY-DERRA CLASSIC Anastomosis Clamps, blades calibrated at 5mm intervals, slightly curved shafts, 2x2 vascular teeth.

37-1300	Small		
	Jaw length	1"	(25mm)
	Jaw depth	1/2"	(12mm)
	Total length	6 1/2"	(165mm)
37-1301	Medium		
	Jaw length	1 1/2"	(38mm)
	Jaw depth	1/2"	(12mm)
	Total length	6 3/4"	(171mm)
37-1302	Large		
	Jaw length	1 3/4"	(45mm)
	Jaw depth	1/2"	(12mm)
	Total length	7"	(178mm)

CLAMPS VASCULAR

CARDIO-VASCULAR/
THORACIC

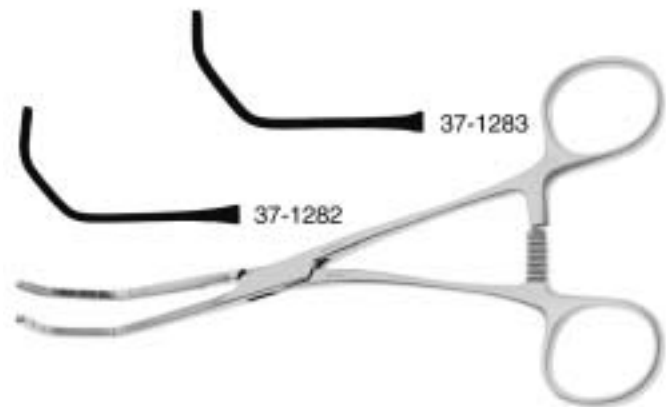
	COOLEY CLASSIC Acutely Curved Clamps, blades calibrated at 5mm intervals, 2x2 vascular teeth.		
37-1310	Medium		
	Jaw length	1 $\frac{9}{16}$ "	(38mm)
	Jaw depth	$\frac{5}{8}$ "	(15mm)
	Total length	6 $\frac{1}{2}$ "	(165mm)
37-1311	Large		
	Jaw length	1 $\frac{3}{4}$ "	(45mm)
	Jaw depth	$\frac{3}{4}$ "	(20mm)
	Total length	6 $\frac{7}{8}$ "	(174mm)



	COOLEY CLASSIC Vascular Clamps, blades calibrated at 5mm intervals, 2x2 vascular teeth.		
37-1280	90° angle, small		
	Jaw length	1"	(25mm)
	Jaw depth	$\frac{5}{16}$ "	(7mm)
	Total length	6 $\frac{1}{2}$ "	(165mm)



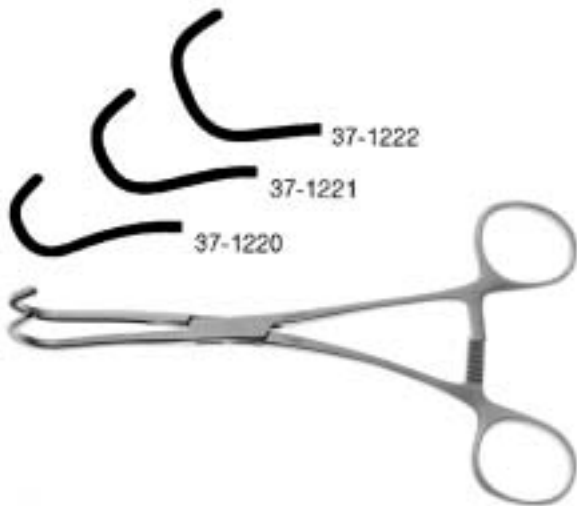
	COOLEY CLASSIC Vascular Clamps, blades calibrated at 5mm intervals, 2x2 vascular teeth.		
37-1282	60° angle, small		
	Jaw length	1"	(25mm)
	Jaw depth	$\frac{5}{16}$ "	(7mm)
	Total length	6 $\frac{3}{4}$ "	(171mm)
37-1283	60° angle, large		
	Jaw length	2"	(51mm)
	Jaw depth	$\frac{5}{16}$ "	(7mm)
	Total length	7"	(178mm)



CLAMPS VASCULAR



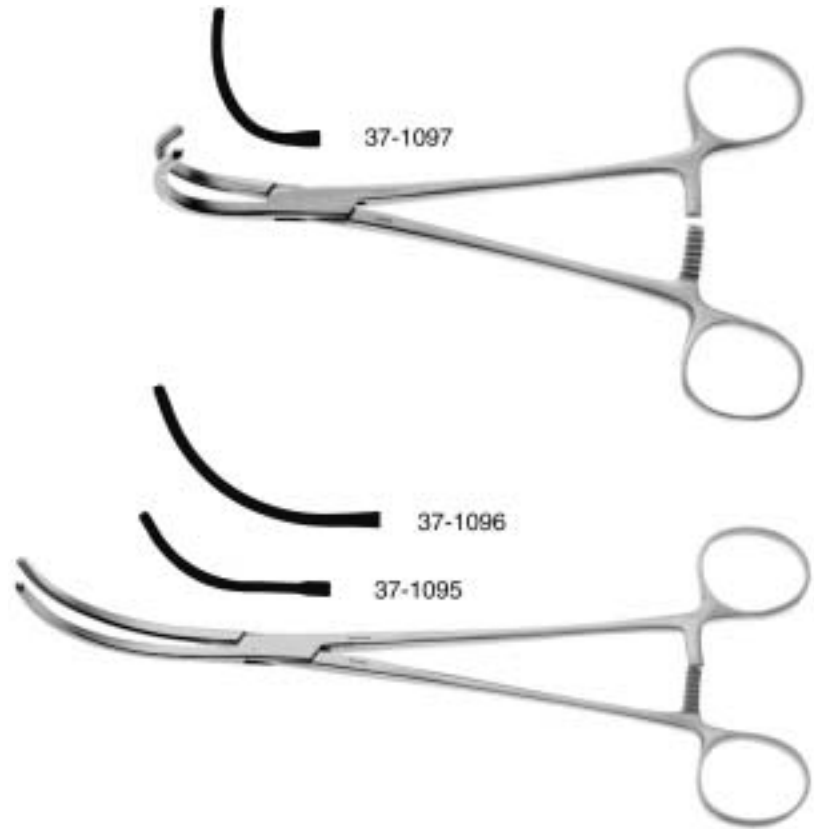
DeBAKEY CLASSIC Vascular Clamps, acutely curved, 1x2 vascular teeth.			
37-1130	Jaw length	2"	(50mm)
	Jaw depth	3/8"	(10mm)
	Total length	9 1/2"	(241mm)
37-1131	Jaw length	2 3/4"	(70mm)
	Jaw depth	1"	(25mm)
	Total length	10 1/2"	(267mm)



DERRA CLASSIC Anastomosis Clamps, 1x2 vascular teeth.				
37-1220	Small			
	Jaw length	3/4"	(18mm)	
	Jaw depth	1/2"	(12mm)	
37-1221	Medium			
	Jaw length	1"	(25mm)	
	Jaw depth	1/2"	(12mm)	
37-1222	Large			
	Jaw length	1 3/8"	(35mm)	
	Jaw depth	1/2"	(12mm)	
		Total length	6 3/4"	(171mm)

CLAMPS VASCULAR

CARDIO-VASCULAR/
THORACIC



GLOVER CLASSIC™ Curved Clamps, 1x2 vascular teeth.			
37-1095	Standard		
	Jaw length	2"	(50mm)
	Jaw depth	3/8"	(10mm)
	Total length	8 1/8"	(206mm)
37-1096	Extra long		
	Jaw length	2 1/2"	(65mm)
	Jaw depth	3/8"	(10mm)
	Total length	9 1/2"	(241mm)
37-1097	Right Angle		
	Jaw length	1 3/4"	(44mm)
	Jaw depth	1 3/4"	(44mm)
	Total length	7 1/8"	(181mm)

CLAMPS VASCULAR



GLOVER CLASSIC™ Spoon-shaped Clamps, 1x2 vascular teeth.			
37-1100	Standard		
	Jaw length	1 $\frac{3}{4}$ "	(45mm)
	Jaw depth	$\frac{5}{16}$ "	(7mm)
	Total length	8 $\frac{1}{2}$ "	(216mm)
37-1101	Extra long		
	Jaw length	2 $\frac{3}{8}$ "	(60mm)
	Jaw depth	$\frac{5}{16}$ "	(7mm)
	Total length	10"	(254mm)



37-1275 HENLY CLASSIC Modified Vascular Clamp, 1x2 vascular teeth.			
	Jaw length	$\frac{3}{4}$ "	(20mm)
	Total length	7 $\frac{1}{2}$ "	(191mm)

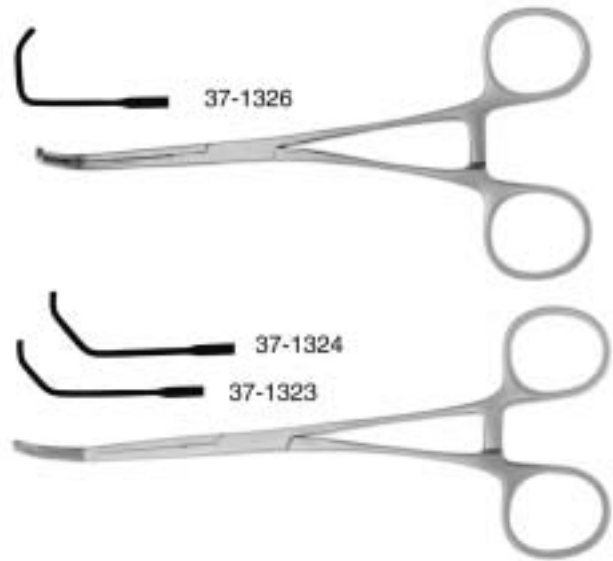


37-1030 LEES CLASSIC Right Angle Clamp, 1x2 vascular teeth.			
	Jaw length	1 $\frac{5}{8}$ "	(40mm)
	Total length	8 $\frac{1}{2}$ "	(216mm)

CLAMPS VASCULAR

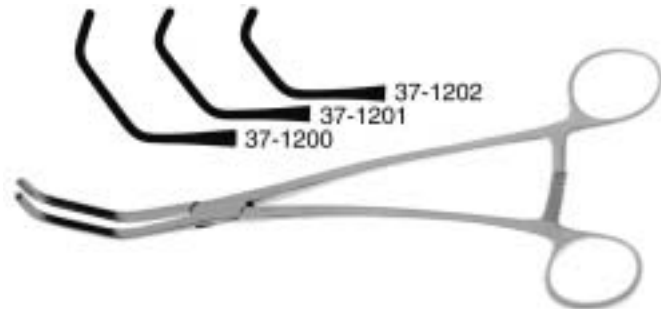
CARDIO-VASCULAR/
THORACIC

REYNOLDS CLASSIC™ Vascular Clamps, 1x2 vascular teeth.			
37-1323	50° angle		
	Jaw length	1"	(25mm)
	Jaw depth	3/16"	(5mm)
	Total length	7"	(178mm)
37-1324	50° angle		
	Jaw length	1 3/16"	(30mm)
	Jaw depth	3/16"	(5mm)
	Total length	7"	(178mm)
37-1326	85° angle		
	Jaw length	1 3/16"	(30mm)
	Jaw depth	3/16"	(5mm)
	Total length	6 1/2"	(165mm)



CLAMPS VENA CAVA

SATINSKY CLASSIC™ Vena Cava Clamps, 1x2 vascular teeth.			
37-1200	Jaw length	2 3/4"	(68mm)
	Jaw depth	1/2"	(12mm)
	Total length	9 1/2"	(241mm)
37-1201	Jaw length	2 1/2"	(63mm)
	Jaw depth	3/8"	(9mm)
	Total length	9 1/2"	(241mm)
37-1202	Jaw length	2 1/4"	(57mm)
	Jaw depth	1/4"	(6mm)
	Total length	9 1/2"	(241mm)



CLIPS SPRING



These applicator forceps are used with EDWARDS Parallel Jaw Spring Clips. (sold separately)

37-4016 Spring clip applicator
Length 7¼" (18.4cm)

CONTRACTORS



50-8050 BAILEY Rib Contractor, ratchet action.
Total opening 4⅝" (117mm)
Length 7⅞" (181mm)



50-8055 BAILEY-GIBBON Rib Contractor, ratchet action, extended blades.
Total opening 4⅝" (117mm)
Length 7⅞" (181mm)

DISSECTORS



LEMMON Intima Dissectors

63-8011 Slight curve
Length 6½" (165mm)
Tip Width 4mm

63-8012 Medium curve
Length 6½" (165mm)
Tip Width 8mm

63-8013 Acute curve
Length 6½" (165mm)
Tip Width 15mm

DILATORS MITRAL

25-8009	MYOCARDIAL Dilator, with 2mm tip width graduated to 17.5mm. Length 5 $\frac{3}{4}$ " (146mm)
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DILATORS VASCULAR

CARDIO-VASCULAR/
THORACIC

	GARRETT Vascular Dilators, malleable shaft.
	Length 5 $\frac{1}{2}$ " (140mm)
25-8035	Set of nine in 21-8005 case.
	Diameter (1 to 5mm)
25-8036	Diameter (1mm)
25-8037	Diameter (1.5mm)
25-8038	Diameter (2mm)
25-8039	Diameter (2.5mm)
25-8040	Diameter (3mm)
25-8041	Diameter (3.5mm)
25-8042	Diameter (4mm)
25-8043	Diameter (4.5mm)
25-8044	Diameter (5mm)



DILATORS VASCULAR



	GARRETT Vascular Dilators, malleable shaft.	
	Length	8¼" (210mm)
25-8015	Set of nine in 21-8005 case.	
	Diameter	(1 to 5mm)
25-8016	Diameter	(1mm)
25-8017	Diameter	(1.5mm)
25-8018	Diameter	(2mm)
25-8019	Diameter	(2.5mm)
25-8020	Diameter	(3mm)
25-8021	Diameter	(3.5mm)
25-8022	Diameter	(4mm)
25-8023	Diameter	(4.5mm)
25-8024	Diameter	(5mm)



21-8005	CODMAN Dilator Case, Stainless Steel.	
	Length	9" (229mm)
	Width	1¾" (44mm)
	Depth	1⅛" (29mm)

ENDARTERECTOMY



63-8010	WYLIE Endarterectomy Set, supplied in metal sterilizing case with cover.	
	Complete set includes the following:	
	11 WYLIE loops on flexible wire stems	
	3 large diameter loops with spiral wire stems	
	1 spiral wire stem stiffener	
	2 universal cannulated chuck handles	
	3 LEMMON Intima Dissectors	

NOTE: Refer to individual products for detailed descriptions.

FORCEPS ARTERY



CARDIO-VASCULAR/
THORACIC

30-8016 HEISS Artery Forceps, curved.
Length 7¼" (184mm)

FORCEPS CORONARY

JONES I.M.A. Forceps		
	Length	Tooth Size
	Straight	
80-1851	7" (178mm)	.003" (.07mm)
80-1853	7" (178mm)	.004" (0.1mm)
80-1858	8½" (216mm)	.003" (.07mm)
80-1859	8½" (216mm)	.004" (0.1mm)
	Bayonet	
80-1852	8½" (216mm)	.004" (0.1mm)
80-1857	8½" (216mm)	.003" (.07mm)



30-8014 REUL Coronary Forceps, tungsten carbide tip inserts, with fine serrations.
Tip width 1.8mm
Length 7¾" (197mm)



FORCEPS HEMOSTATIC



30-8092 ROCHESTER-CARMALT Hemostatic Forceps, longitudinal serrations, curved.

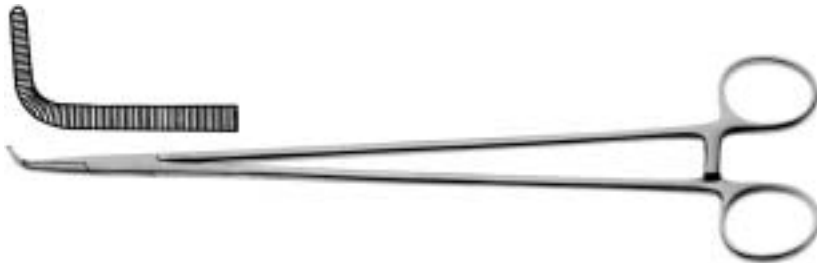
Length 12¼" (312mm)

FORCEPS INTESTINAL



30-4700 BRIDGE Intestinal Forceps, curved.

Length 11" (279mm)



30-4701 MEEKER Intestinal Forceps, right angle.

Length 10¾" (273mm)

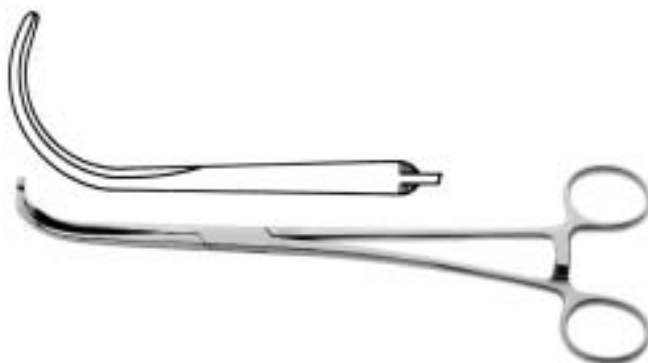
FORCEPS LIGATURE



CARDIO-VASCULAR/
THORACIC

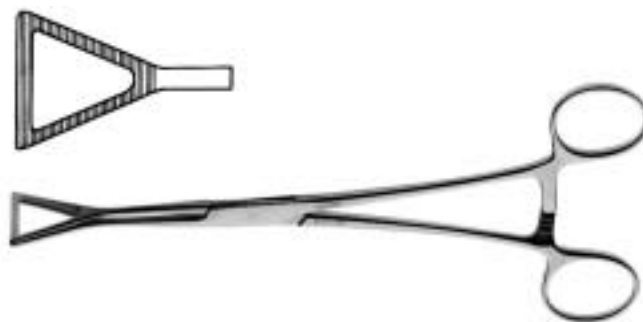
37-1132	DeBAKEY-SEMB CLASSIC™ Ligature Carrying Forceps, 1x2 vascular teeth.
Length of serrations	5/8" (15mm)
Jaw length	2 1/4" (57mm)
Total length	10" (254mm)

30-8056	SEMB Ligature Carrying Forceps, acute curve.
Length	9 1/2" (241mm)



FORCEPS LUNG

30-8095	DUVAL Lung Grasping Forceps, triangular jaws.
Jaw width	1" (25mm)
Total length	8" (203mm)



FORCEPS SUTURE TAG



	CASTANEDA, Suture Tag Forceps, smooth jaws, numbered for identification.	
	Length	3½" (89mm)
30-9007	No. 1	
30-9008	No. 2	
30-9009	No. 3	
30-9010	No. 4	



19-8025	GREGORY Stay Suture Clamps, small, curved.	
	Length	3½" (89mm)
	GREGORY Stay Suture Clamps, large, straight.	
	Length	4¾" (121mm)
19-8026	⅝" (15mm) gold band	
19-8027	¾" (20mm) gold band	
19-8029	1⅝" (40mm) gold band	

FORCEPS THORACIC



19-8150	CASTANEDA-MIXTER Thoracic Clamp Forceps, smooth jaws.	
	Length	5¼" (133mm)

FORCEPS THORACIC

30-8065 MODIFIED COLLIER Thoracic Clamp, curved.
Length 10½" (267mm)



30-8049 HARRINGTON Thoracic Clamp Forceps,
right angled, longitudinal serrations with
cross-serrated tips.
Length 12" (305mm)

CARDIO-VASCULAR/
THORACIC

FORCEPS THORACIC



30-8051 HARRINGTON-MIXTER Thoracic Clamp Forceps, right angled, longitudinal serrations with cross-serrated tips.
Length 12¼" (311mm)



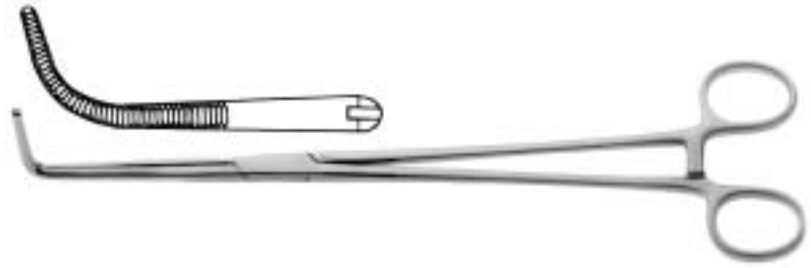
37-4034 JULIAN Thoracic Artery Forceps, 24mm jaw length, slightly curved.
Length 9¼" (23.5cm)



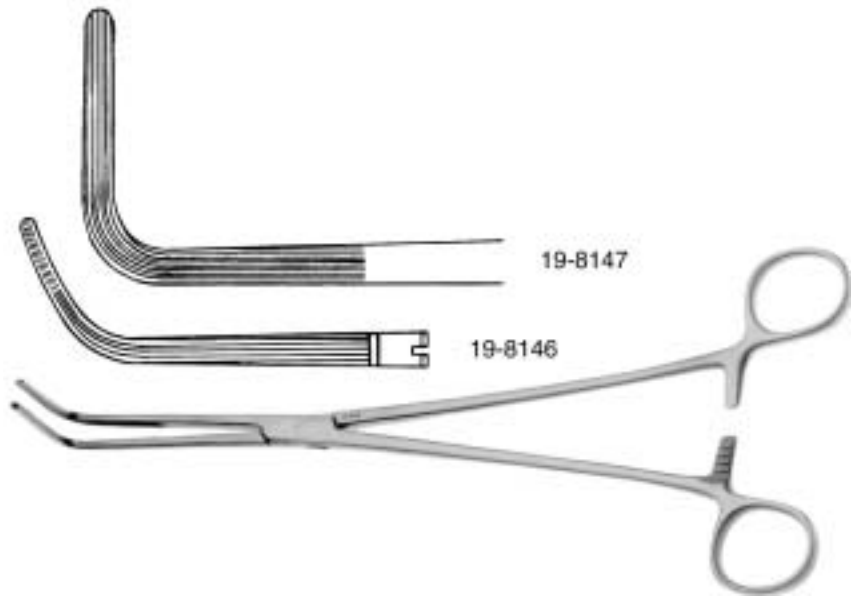
19-8152 JONES Thoracic Clamp, curved.
Length 11¼" (286mm)

FORCEPS THORACIC

CARDIO-VASCULAR/
THORACIC



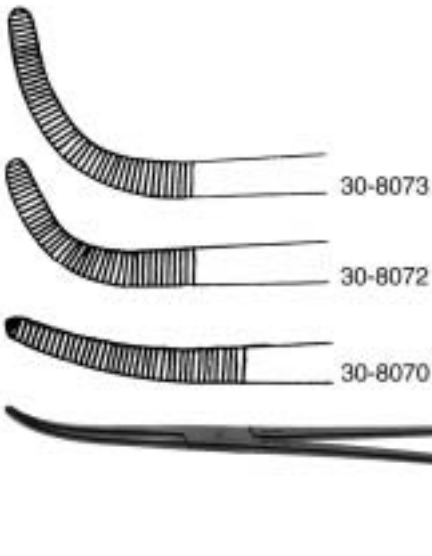
19-8145 MIXTER Thoracic Clamp Forceps,
curved, cross-serrations.
Length 9" (229mm)



MIXTER Thoracic Clamp Forceps,
angular, longitudinal serrations.
Length 11" (279mm)

19-8146 Soft jaw, cross-serrated tips, angular.
19-8147 Standard jaw, angular.

FORCEPS THORACIC



	RUMEL Thoracic Forceps	
	Length	9" (229mm)
30-8070	Slight curve	
30-8072	Full curve	
30-8073	Right angle	



30-8059	SAROT Intra-thoracic Forceps, slightly curved.	
	Jaw length	2¼" (57mm)
	Total length	9" (229mm)



30-8082	THORACIC Forceps, delicately curved.	
	Length	9½" (241mm)

FORCEPS THORACIC



CARDIO-VASCULAR/
THORACIC

30-8085	WILLAUER-ALLIS Thoracic Tissue Forceps		
	Tip width		8mm
	Length	10"	(254mm)

FORCEPS TISSUE

	COOLEY Vascular Tissue Forceps, fine 1mm cross-serrated jaws.		
37-4028	Length	8"	(20.5cm)



	DeBAKEY CLASSIC™ Thoracic Tissue Forceps		
37-1000	Length	6"	(152mm)
37-1001	Length	7¾"	(197mm)
37-1002	Length	9½"	(241mm)
37-1003	Length	12"	(305mm)



Tips taper from 2.5mm to 2.0mm for the distal 2.0cm. A heavier model useful for grasping tissue or sutures.

	POTTS-SMITH Tissue Forceps, 1x2 teeth.		
30-8023	Tip width		1.7mm
	Length	7¼"	(184mm)
30-8024	Tip width		1.7mm
	Length	8¼"	(210mm)
30-8123	Tip width		1.8mm
	Length	12"	(305mm)



FORCEPS TISSUE



30-8085	WILLAUER-ALLIS Thoracic Tissue Forceps		
	Tip width		8mm
	Length	10"	(254mm)

FORCEPS VASCULAR



30-8500	CASTANEDA Vascular Forceps, TITANIUM, 1x2 vascular teeth, grooved with cross serrations.		
	Tip width		1.7mm
	Length	6"	(152mm)



30-8015	DAICOFF Vascular and Needle Pulling Forceps, 1x2 vascular teeth, tungsten carbide tip inserts.		
	Tip width		2mm
	Tooth length		.8mm
	Serration length		17mm
	Length	7 ³ / ₄ "	(197mm)

Tip width is measured 1mm from the instrument tip.

FORCEPS VASCULAR

CARDIO-VASCULAR/
THORACIC

DeBAKEY CLASSIC™ Vascular Tissue Forceps

37-1010	Length	6"	(152mm)
37-1011	Length	7¾"	(197mm)
37-1012	Length	9½"	(241mm)
37-1013	Length	12"	(305mm)



Tips taper from 2.0mm to 1.5mm for the distal 2.0cm. A lighter model useful with delicate vessels or sutures.

DeBAKEY-DIETHRICH Vascular Forceps

30-8131	Length	6"	(152mm)
30-8132	Length	7¾"	(197mm)
30-8133	Length	9½"	(241mm)



Tips taper from 1.5mm to 1.3mm for the distal 2.0cm. Useful with very delicate vessels or sutures.

DeBAKEY-LIDDICOAT Vascular Forceps, 1x2 vascular teeth, straight, TITANIUM.

30-8400	Fine	Tip width	1.8mm
		Length	6" (152mm)
30-8401	Regular	Tip width	2.25mm
		Length	6" (152mm)
30-8402	Fine	Tip width	1.8mm
		Length	7¾" (197mm)
30-8403	Regular	Tip width	2.25mm
		Length	7¾" (197mm)
30-8404	Fine	Tip width	1.8mm
		Length	9½" (241mm)
30-8405	Regular	Tip width	2.25mm
		Length	9½" (241mm)



FORCEPS VESSEL

30-8018	VANDERBILT UNIVERSITY Vessel Forceps
Length	8½" (216mm)



HOLDER VEIN



21-8011	HUANG Vein Holder, tapering tip. Holds vein during anastomosis in the aorta-to-coronary bypass graft procedure.		
	Tip width		1mm
	Maximum diameter	3/8"	(10mm)
	Length	7"	(178mm)

KNIFE



	JONES I.M.A. Diamond Knife			
80-1860	Length	7 1/2"	Tip	45°

KNIFE STERNAL

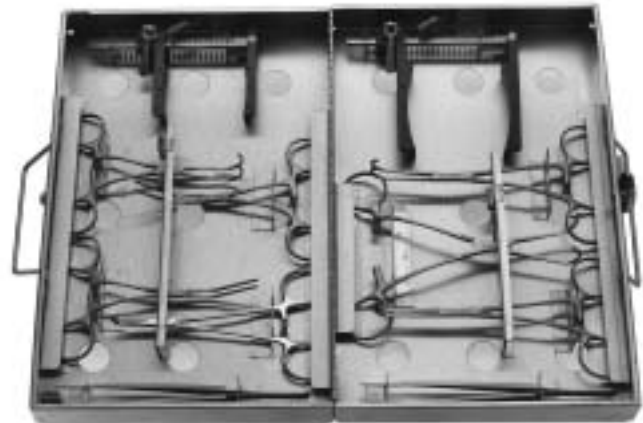


40-8025	LEBSCHKE Sternal Knife		
	Blade length	1 1/4"	(32mm)
	Length	9 3/4"	(248mm)

KIT CASTANEDA CARDIOVASCULAR

	CODMAN CASTANEDA Kit is a group of instruments specifically designed for infant cardiovascular surgery.	
30-9025	CASTANEDA Kit includes: CASTANEDA Clamps Length 5½" (130mm)	
30-9000	Multi-purpose Clamp, angled 30°.	
30-9001	Multi-purpose Clamp, angled 50°.	
30-9002	Partial Occlusion Clamp, spoon shape.	
30-9003	Anastomosis Clamp, small.	
30-9004	Anastomosis Clamp, medium.	
30-9005	Anastomosis Clamp, large. CASTANEDA Retractors Length 4¾" (110mm)	
50-8060	Sternal Retractor, small.	
50-8061	Sternal Retractor, large.	
30-8500	Vascular Forceps, TITANIUM, two each. Length 6" (152mm)	
19-8150	MIXTER Clamp, smooth jaw. Length 5¼" (133mm)	
21-8010	CASTANEDA Instrument Case Width 7" (178mm) Depth 2" (51mm) Length 11" (279mm)	

NOTE: Refer to individual products for detailed descriptions.



CARDIO-VASCULAR/
THORACIC

KIT DIETHRICH BYPASS



CODMAN DIETHRICH Kit is a collection of instruments designed for use in coronary artery bypass surgery.

80-8100 DIETHRICH Kit includes:
DIETHRICH Coronary Artery Scissors
Length 7" (178mm)

54-8017 Angled 25°
54-8018 Angled 45°
54-8019 Angled 60°
54-8021 Angled 90°
54-8020 Angled 125°, with stabilizing bar.

25-8015 GARRETT Vascular Dilator, set of nine.
Length 8¼" (210mm)

19-5580 GEMINI Clamp
Length 7" (179mm)

30-8132 DEBAKEY-DIETHRICH Vascular Forceps, two each.
Length 7¾" (197mm)

19-8090 DIETHRICH Bulldog Clamps, 8mm, two each.
19-8091 DIETHRICH Bulldog Clamps, 12mm, two each.
45-8002 HEPARIN Tip Needles, three each.

21-8000 DIETHRICH Instrument Case
Width 6¾" (171mm)
Depth 2" (51mm)
Length 10½" (267mm)

KIT IMA



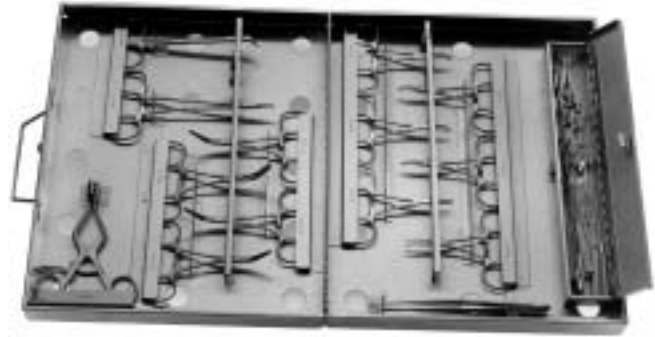
80-1850 CODMAN I.M.A. Kit
A coordinated approach to handling the internal mammary artery (I.M.A.) and performing delicate, small vessel anastomoses.

Includes:

80-1851 1 ea. Jones I.M.A. Forceps, Straight, 7"
80-1852 2 ea. Jones I.M.A. Forceps, Bayonet, 8½"
80-1854 1 ea. Jones I.M.A. Scissors, Straight, 6", 45° Blade
80-1855 1 ea. Jones I.M.A. Scissors, Bayonet, 7¼", 45° Blade
80-1856 1 ea. Jones I.M.A. Scissors, Bayonet, 7½", Reversed 45° Blade
36-3018 2 ea. Jones I.M.A. Needleholders, 6"
36-3019 2 ea. Jones I.M.A. Needleholders, 7"
80-1860 1 ea. Jones I.M.A. Diamond Knife, 7½", 45°
80-1861 1 ea. Epicardial Retractor, Small
80-1862 1 ea. Epicardial Retractor, Medium
80-1863 1 ea. Epicardial Retractor, Large
19-8090 4 ea. Diethrich Bulldogs, 8MM, Angled
80-1865 1 ea. Case

KIT NOON A-V FISTULA

80-8010	NOON A-V FISTULA Kit includes:
19-8091	DIETHRICH Bulldog Clamps, angled, 12mm, four each.
54-8008	Fine Vascular Scissors, 45°.
45-8002	HEPARIN Flushing Needle, two each.
50-4265	ALM Wound Retractor
50-5647	WEITLANER Retractor, blunt tip.
25-8035	GARRETT Dilators, set of nine. Length 5½" (140mm)
80-8006	NOON Tunneler Length 9" (229mm)
37-1335	NOON A.V. Fistula Clamps, four each.
30-4472	Mosquito Forceps, delicate, curved, six each. Length 3¾" (98mm)
36-3014	RYDER CLASSIC PLUS™ Needle Holder, 1mm tip, tungsten carbide jaw insert. Length 6" (152mm)
30-8131	DEBAKEY-DIETHRICH Forceps Length 6" (152mm)
21-8015	NOON Instrument Case Width 9¾" (248mm) Depth 2" (51mm) Length 12" (305mm)



CARDIO-VASCULAR/
THORACIC

KIT WYLIE ENDARTERECTOMY

63-8010	WYLIE Endarterectomy Set, supplied in metal sterilizing case with cover. Complete set includes the following: 11 WYLIE loops on flexible wire stems 3 large diameter loops with spiral wire stems 1 spiral wire stem stiffener 2 universal cannulated chuck handles 3 LEMMON Intima Dissectors
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NOTE: Refer to individual products for detailed descriptions.



NEEDLES



45-8002	HEPARIN Flushing Needle, 18G.
Length	1 7/8" (48mm)

NEEDLE HOLDERS



30-8002	COMBINATION Needle Holder and Forceps
Length	5 1/2" (140mm)



JACOBSON Titanium Needle Holders			
	With catch	Length	
80-1866	Straight	7"	(178mm)
80-1868	Straight	8 1/2"	(216mm)
Without catch			
80-1867	Straight	7"	(178mm)
80-1869	Straight	8 1/2"	(216mm)



CLASSIC PLUS JONES I.M.A. Needle Holder			
36-3018	Straight	Length 6"	(152mm)
36-3019	Straight	Length 7"	(178mm)

NOTE: See GENERAL Section for additional Needle Holders.

PUNCHES

	KARP Aortic Punches		
	Total Length	6½"	(156mm)
51-8000	Bite		(4mm)



51-8006	SWEET Sternal Punch, improved model with hook to carry suture back through hole.		
	Length	9½"	(241mm)

RASP

	ALEXANDER Coastal Periosteotomes, sharp, double-ended.		
65-8005	Elevator width	½"	(13mm)
	Stripper width	1"	(25mm)
	Length	8⅞"	(213mm)



CARDIO-VASCULAR/
THORACIC

RASP



	DOYEN Rib Raspatories, sharp.		
	Blade Length	1 $\frac{1}{8}$ "	(30mm)
	Length	7"	(178mm)
52-8000	left		
52-8001	Right		

RETRACTORS EPICARDIAL



37-4035	PARSONNET Epicardial Retractor, self retaining, light spring steel retractor with 3x3 sharp prongs.		
	Length	1 $\frac{7}{8}$ "	(4.7cm)

RETRACTORS HAND-HELD

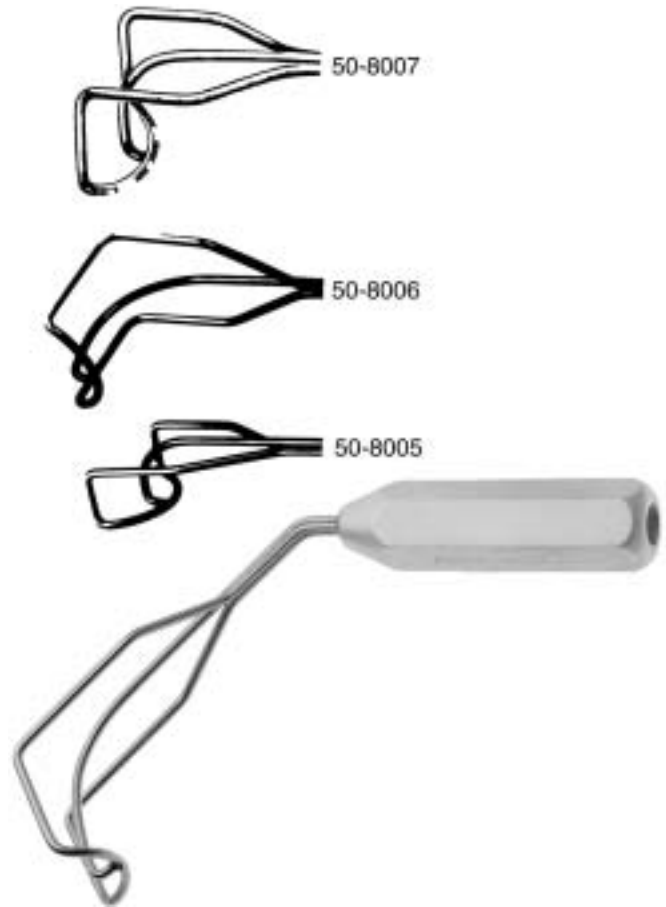


	ALLISON Lung Retractors		
50-8152	Small		
	Length	10 $\frac{1}{2}$ "	(260mm)
50-8153	Large		
	Length	12 $\frac{1}{2}$ "	(318mm)

RETRACTORS HAND-HELD

CARDIO-VASCULAR/
THORACIC

COOLEY Atrial Retractors			
50-8005	Length	10"	(254mm)
	Left		
	Blade width	1 $\frac{3}{4}$ "	(44mm)
50-8006	Blade depth	1"	(25mm)
	Right		
	Blade width	1 $\frac{3}{4}$ "	(44mm)
50-8007	Blade depth	1 $\frac{3}{4}$ "	(44mm)
	Modified with teeth		
	Blade width	1 $\frac{3}{4}$ "	(44mm)
	Blade depth	1 $\frac{3}{4}$ "	(44mm)



DAVIDSON Scapular Retractors			
50-8095	Blade width	2"	(51mm)
	Blade depth	3"	(76mm)
	Handle length	6"	(152mm)
50-8096	Blade width	3 $\frac{1}{2}$ "	(89mm)
	Blade depth	3"	(76mm)
	Handle length	6"	(152mm)



RETRACTORS HAND-HELD



50-8001



50-8003



50-8000



50-8002



KIRKLIN Atrial Retractors, malleable shaft.

Nickle plated

Blade depth $\frac{5}{16}$ " (8mm)

Length $5\frac{1}{2}$ " (140mm)

Blade width $\frac{3}{16}$ " (5mm)

50-8000 Blade width $\frac{1}{4}$ " (6mm)

50-8002 Blade width $\frac{3}{8}$ " (10mm)

50-8003 Blade width $\frac{1}{2}$ " (13mm)



LIDDICOAT Aortic Valve Retractors

Length $7\frac{3}{4}$ " (197mm)

50-8011 Small

Blade width $\frac{3}{8}$ " (10mm)

Blade length $\frac{3}{4}$ " (18mm)

50-8012 Large

Blade width $\frac{3}{4}$ " (18mm)

Blade length $1\frac{1}{8}$ " (28mm)



MURPHY Retractors

Three prong

Blade width $\frac{1}{2}$ " (13mm)

Blade depth $\frac{5}{16}$ " (8mm)

Length $7\frac{3}{4}$ " (197mm)

50-8071 Sharp

50-8077 Blunt



Four prong

Blade width $1\frac{1}{16}$ " (18mm)

Blade depth $\frac{5}{16}$ " (8mm)

Length $7\frac{3}{4}$ " (197mm)

50-8072 Sharp

50-8078 Blunt



Six prong

Blade width $1\frac{1}{8}$ " (29mm)

Blade depth $\frac{5}{16}$ " (8mm)

Length $7\frac{3}{4}$ " (197mm)

50-8073 Sharp

50-8079 Blunt

RETRACTORS HOOK

37-4038	CRILE Hook Retractor.		
	Single hook		
	Length	8"	(20.3cm)



RETRACTORS SELF-RETAINING, MULTI PURPOSE

50-8015	GARRETT Multi-purpose Peripheral Vascular Retractor, self-retaining. Complete with three pairs of detachable blades.		
	Total length	7¼"	(184mm)
	Total opening	3½"	(89mm)
	Blade width	1½"	(38mm)
	Blade depth	1¼"	(32mm)
	Blade width	1½"	(38mm)
	Blade depth	2¼"	(57mm)
	Blade width	1½"	(38mm)
Blade depth	3¼"	(83mm)	



50-8016	OCHSNER Vascular Retractor with swiveling blades, self-retaining with flexible arms.		
	Arm length	3¼"	(83mm)
	Blade width	1"	(25mm)
	Blade depth	2"	(51mm)
	Total opening	5½"	(140mm)
	Length	8"	(203mm)



CARDIO-VASCULAR/
THORACIC

RETRACTORS

SELF-RETAINING, MULTI PURPOSE



50-8160
50-8161

DARLING Popliteal Retractors, self-retaining.

Length	6½"	(165mm)
Total opening	3¾"	(95mm)
Blade width	1½"	(38mm)
Blade depth	3"	(76mm)
Blade width	1"	(25mm)
Blade depth	2⅛"	(54mm)

Left

Right

The direction of the widest blade upon placement determines the identity of the retractor.

RETRACTORS

SELF-RETAINING, RIB



50-8033

BURFORD-FINOCHIETTO Rib Retractor, self-retaining with rack and pinion action. Two sets of detachable blades, curved arms.

Aluminum

Arm length	9½"	(241mm)
Large blade width	2½"	(64mm)
Large blade depth	2⅝"	(67mm)
Small blade width	2½"	(64mm)
Small blade depth	1¾"	(44mm)
Total opening	10"	(254mm)

RETRACTORS SELF-RETAINING, RIB

CARDIO-VASCULAR/
THORACIC



50-8031	BURFORD-FINOCHIETTO Rib Retractor, self-retaining with rack and pinion action, standard, curved arms with two sets of detachable blades.
Arm length	9 $\frac{3}{4}$ " (248mm)
Large blade width	2 $\frac{1}{2}$ " (64mm)
Large blade depth	3" (76mm)
Small blade width	2 $\frac{1}{2}$ " (64mm)
Small blade depth	1 $\frac{7}{8}$ " (48mm)
Total opening	10" (254mm)

50-8133	BURFORD-FINOCHIETTO Rib Retractor, child model, self-retaining with rack and pinion action. Two sets of detachable aluminum blades.
Aluminum	
Arm length	6" (152mm)
Large blade width	1 $\frac{5}{8}$ " (41mm)
Large blade depth	1 $\frac{7}{8}$ " (48mm)
Small blade width	1 $\frac{5}{8}$ " (41mm)
Small blade depth	1 $\frac{3}{8}$ " (35mm)
Total opening	6" (152mm)



RETRACTORS SELF-RETAINING, RIB



FINOCHIETTO Rib Retractors, self-retaining with rack and pinion action.

	Arm length	5¼"	(146mm)
50-8022	Blade width	1¾"	(44mm)
	Blade depth	1¼"	(32mm)
	Total opening	6"	(152mm)
50-8023	Blade width	2⅝"	(67mm)
	Blade depth	1¾"	(44mm)
	Total opening	7½"	(191mm)
50-8024	Blade width	2⅝"	(67mm)
	Blade depth	2¾"	(70mm)
	Total opening	8¼"	(210mm)



50-5625 FINOCHIETTO Infant Rib Retractor, self-retaining with rack and pinion action.

	Arm length	3"	(76mm)
	Blade length	¾"	(19mm)
	Blade depth	1⅜"	(21mm)
	Total opening	2½"	(64mm)

RETRACTORS SELF-RETAINING, RIB

50-8057	FINOCHIETTO Infant Rib Retractor-Contractor, self-retaining with rack and pinion action.
Arm length	3¼" (83mm)
Blade width	7⁄8" (22mm)
Blade depth	¾" (19mm)
Total opening	3½" (89mm)



50-8028	HAIGHT-FINOCHIETTO Rib Retractor, self-retaining with rack and pinion action.
Arm length	3¼" (83mm)
Blade width	1¼" (32mm)
Blade depth	13⁄16" (30mm)
Total opening	4" (102mm)



CARDIO-VASCULAR/
THORACIC

RETRACTORS SELF-RETAINING, RIB



50-8040	HARKEN Rib Retractor, self-retaining with rack and pinion action. Complete with two fixed and two detachable scapular blades.
Arm length	9 $\frac{3}{4}$ " (248mm)
Fixed blade width	3" (76mm)
Fixed blade depth	2" (51mm)
Scapular blade width	2" (51mm)
Scapular blade depth	1 $\frac{1}{2}$ " (38mm)
Total opening	10" (254mm)



	TUFFIER Rib Retractors, self-retaining.
	Blade width 1 $\frac{3}{4}$ " (44mm)
	Blade depth 2" (51mm)
	Total opening 6 $\frac{1}{2}$ " (165mm)
50-8064	Serrated blades
50-8065	Roughened blades

RETRACTORS SELF-RETAINING, STERNAL

CARDIO-VASCULAR/
THORACIC

50-8068 ANKENEY Sternal Retractor, aluminum, with stainless steel rack. Self-retaining with rack and pinion action. Complete with four fixed swivel blades.

Child size		
Arm length	4½"	(114mm)
Total opening	5"	(127mm)
Blade width	¾"	(19mm)
Blade depth	1"	(25mm)



50-8069 ANKENEY Sternal Retractor, self-retaining with rack and pinion action. Complete with six detachable swivel blades, and one pair of springs on each arm.

Adult size		
Arm length	11½"	(292mm)
Spring length	¾"	(83mm)
Total opening	7"	(178mm)
Blade width	1⅜"	(35mm)
Blade depth	1¼"	(32mm)

50-8070 ANKENEY Sternal Retractor Blades, set of six.

Blade width	1⅜"	(35mm)
Blade depth	2"	(52mm)



50-8060 CASTANEDA Infant Sternal Retractor, with aluminum arms.

Small		
Arm length	2⅝"	(67mm)
Blade width	1⅞"	(36mm)
Blade depth	⅜"	(10mm)
Total opening	3"	(76mm)

50-8061 Large

Arm length	3"	(76mm)
Blade width	2½"	(64mm)
Blade depth	⅞"	(11mm)
Total opening	3½"	(89mm)



RETRACTORS SELF-RETAINING, STERNAL



50-8080 COLLINS Sternal Retractor, self-retaining with rack and pinion action. Body only.
Arm length 8 $\frac{3}{4}$ " (222mm)
Total opening 8 $\frac{1}{8}$ " (206mm)



50-8081 COLLINS Radiopaque Sternal Blades, plastic (nylon material), sterile, disposable. Two blades per package, 10 packages per case.
Blade width 3" (76mm)
Blade length 4 $\frac{3}{4}$ " (121mm)
Blade depth 1 $\frac{1}{2}$ " (38mm)

RETRACTORS

SELF-RETAINING, STERNAL

50-8090	FAVALORO-MORSE Sternal Retractor, with two pair of fixed sternal blades.	
Arm length	7 ⁵ / ₁₆ "	(186mm)
Total opening	8"	(203mm)
Blade width	1 ¹ / ₈ "	(28mm)
Blade depth	1 ¹ / ₂ "	(38mm)



50-1133	HIMMELSTEIN Sternal Retractor, self-retaining with ratchet action and flexible arms. Complete with one pair of detachable blades.	
Arm length	5 ¹ / ₄ "	(133mm)
Total opening	5"	(127mm)
Blade width	1 ³ / ₈ "	(35mm)
Blade depth	1 ¹ / ₈ "	(29mm)



RETRACTORS

SELF-RETAINING, STERNAL

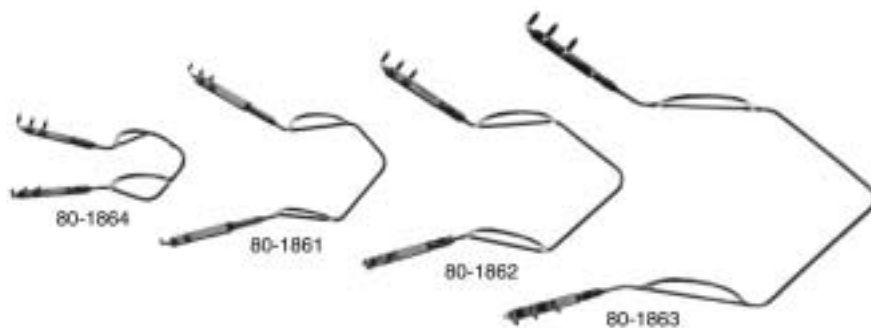


	MORSE Sternal Retractors, self-retaining with rack and pinion action.	
50-8066	Child size	
	Arm length	6 $\frac{1}{8}$ " (156mm)
	Blade width	$\frac{3}{4}$ " (19mm)
	Blade depth	$\frac{3}{4}$ " (19mm)
	Total opening	6 $\frac{1}{4}$ " (159mm)
50-8067	Adult size	
	Arm length	7 $\frac{1}{2}$ " (191mm)
	Blade width	1 $\frac{1}{8}$ " (28mm)
	Blade depth	1" (25mm)
	Total opening	8" (203mm)



50-8085	PACIFICO Sternal Retractor, self-retaining.	
	Arm length	6" (152mm)
	Total opening	8" (203mm)
	Upper Blade width	1 $\frac{1}{8}$ " (28mm)
	Upper Blade depth	1 $\frac{1}{8}$ " (28mm)
	Lower Blade width	1 $\frac{1}{8}$ " (28mm)
	Lower Blade depth	$\frac{3}{4}$ " (19mm)
	The retractor is designed so that the rack/pinion and crank can be positioned toward the patient's head.	

RETRACTORS SELF-RETAINING, SPRING



CARDIO-VASCULAR/
THORACIC

I.M.A. Epicardial Retractors
Gold Coated

	Size	Length
80-1864	Mini	1" (25mm)
80-1861	Small	1½" (28mm)
80-1862	Medium	1½" (38mm)
80-1863	Large	2½" (54mm)

RETRACTORS, TABLE FIXED BOOKWALTER IMA



BOOKWALTER IMA Retractor kit provides the tools to elevate and retract the sternum for efficient dissection of the internal mammary artery.

50-4600 BOOKWALTER IMA Retractor

Includes:

- | | | | |
|----------------|-----------------------|---------------------|----------|
| 50-4552 | Horizontal Bar | 1" diameter | (25mm) |
| | | 14¼" length | (36cm) |
| 50-4554 | Post Coupling | 1" diameter | (25mm) |
| 50-4581 | Table Post | 1" diameter | (25cm) |
| 50-4601 | IMA Cross Bar | 12" length | (30cm) |
| 50-4602 | IMA Ratchet Mechanism | | (2 each) |
| 50-4603 | IMA Retractor Blade | | (30cm) |
| | | (2 each) 12" length | |
| 50-4604 | IMA Storage Case | | |
-

RONGEUR RIB



CARDIO-VASCULAR/
THORACIC

56-8040	DALE First Rib Rongeur, double-action.		
Bite	1/8"	3mm	
Length	14 1/2"	(368mm)	

SAW AIR POWERED STERNUM



-
- | | |
|----------------|--|
| 26-7005 | CODMAN Air Powered Sternum Saw Set
Consists of the following: |
| 26-7006 | CODMAN Air Powered Sternum Saw Handpiece
with Footplate |
| 26-5007 | CODMAN Air Hose, 10 ft. |
| 26-5026 | CODMAN Lubricant |
| 26-7003 | CODMAN Sternum Saw Set Sterilizing Case |
-



-
- | | |
|----------------|---|
| 26-7006 | CODMAN Sternum Saw Handpiece with
Footplate, Air Powered |
|----------------|---|
-

For Sternum Saw Blades, see product code 26-7010.



-
- | | |
|----------------|------------------------------|
| 26-7004 | CODMAN Sternum Saw Footplate |
|----------------|------------------------------|
-

SAW AIR POWERED STERNUM

26-7010 Sternum Saw Blades, sterile disposable,
5 per package



SCISSORS CARDIOVASCULAR

37-4036 COOLEY Cardiovascular Scissors, curved on
flat, Mayo-type handles.
Length 7½" (19.1cm)



SCISSORS CIRCUMFLEX ARTERY

54-8020 DIETHRICH Circumflex Artery Scissors, with
stabilizing bar, 125° angle.
Blade width ⅛" (4mm)
Blade length ½" (13mm)
Length 7" (178mm)

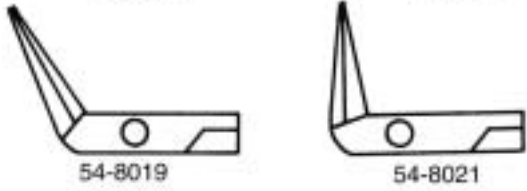


54-8016 LAWRIE Modified Circumflex Scissors,
without stabilizing bar, 130° angle.
Blade width ⅛" (4mm)
Blade length ½" (13mm)
Length 7" (178mm)



CARDIO-VASCULAR/
THORACIC

SCISSORS CORONARY ARTERY



DIETHRICH Coronary Artery Scissors		
Blade width	1/8"	(4mm)
Blade length	1/2"	(13mm)
Length	7"	(178mm)
54-8017	25° angle	
54-8018	45° angle	
54-8019	60° angle	
54-8021	90° angle	



54-8010	FAVALORO Coronary Scissors, curved shank, 130° angle.	
Blade width	1/8"	(4mm)
Blade length	7/16"	(11mm)
Length	6 3/4"	(171mm)

SCISSORS CORONARY ARTERY

REUL Coronary Artery Scissors			
54-8011	Length	7¼"	(184mm)
	45° angle		
54-8014	Blade width	¼"	(6mm)
	Blade length	1¾"	(21mm)
54-8015	60° angle		
	Blade width	⅛"	(3mm)
54-8015	Blade length	7⁄8"	(22mm)
	90° angle		
54-8015	Blade width	3⁄16"	(5mm)
	Blade length	¾"	(19mm)



CARDIO-VASCULAR/
THORACIC

JONES I.M.A. Scissors (Titanium)			
		Length	
80-1854	Straight, 45° tip	6"	(152mm)
80-1855	Bayonet, 45° tip	7½"	(191mm)
80-1856	Bayonet, reverse angle	7½"	(191mm)



SCISSORS DISSECTING



54-4151 JORGENSON Dissecting Scissors, acute curve.
Length 8½" (216mm)



NELSON Scissors
Length 9" (229mm)
54-8025 Straight
54-8026 Curved



37-4030 POTTS-SMITH Scissors, regular blade, dissecting, curved.
Length 7½" (19.1cm)

SCISSORS ENDARTERECTOMY



54-8012 DeBAKEY Endarterectomy Scissors
Length 7" (178mm)

SCISSORS STITCH

54-2555 SHORTBENT Stitch Scissors, curved on side.
Length 3½" (89mm)



CARDIO-VASCULAR/
THORACIC

SCISSORS TENOTOMY



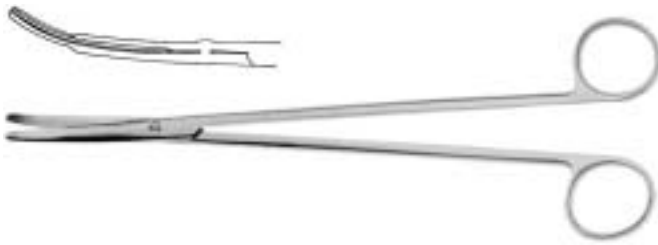
JAMISON Metzenbaum Tenotomy Scissors,
curved blades.

37-4027	Length	9"	(22.8cm)
37-4031	Length	8"	(20.3cm)
37-4033	Length	6"	(15.2cm)

37-4032 POTTS Tenotomy Scissors, curved.
Length 6" (15.2cm)

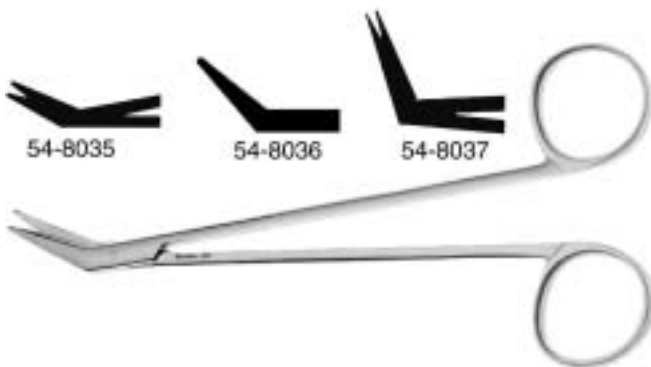


SCISSORS TISSUE

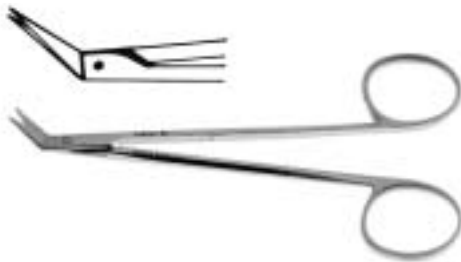


54-8024 CALCIFIED Tissue Scissors, serrated blades, curved.
Length 9" (229mm)

SCISSORS VASCULAR



DeBAKEY Vascular Scissors
Blade width 1/4" (6mm)
Blade length 7/8" (22mm)
Length 6 1/2" (165mm)
54-8035 25° angle
54-8036 45° angle
54-8037 60° angle



54-8008 FINE Vascular Scissors, 45° angle.
Blade width 3/16" (5mm)
Blade length 1/2" (13mm)
Length 5 1/4" (133mm)

SCISSORS VASCULAR

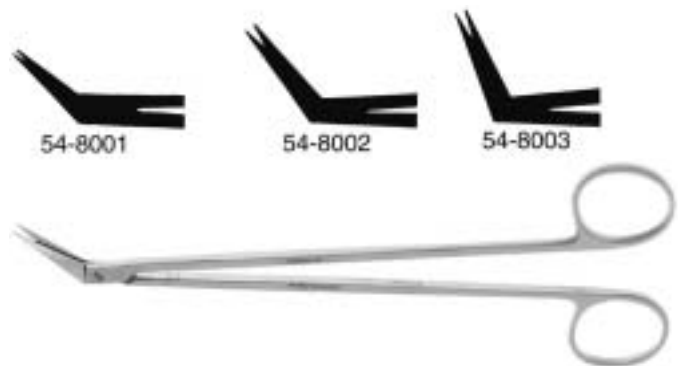
54-8004 MATTOX-POTTS Scissors, 45° angle.
 Blade width 1/4" (6mm)
 Blade length 13/16" (21mm)
 Length 5 1/2" (140mm)



CARDIO-VASCULAR/
THORACIC

POTTS-SMITH Scissors
 Blade width 1/4" (6mm)
 Blade length 7/8" (22mm)
 Length 7 1/2" (191mm)

54-8001 25° angle
54-8002 45° angle
54-8003 60° angle



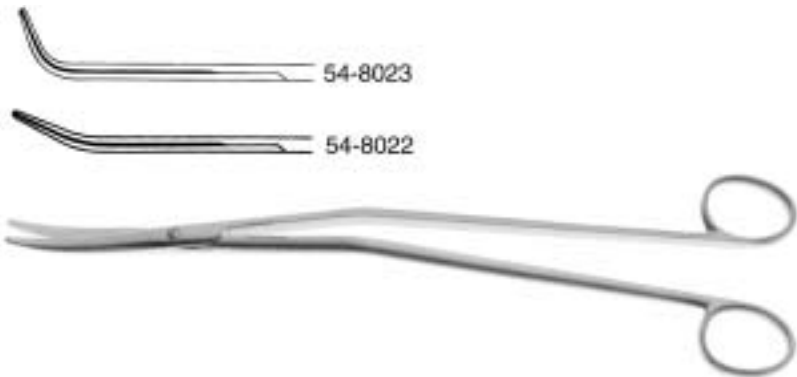
SCISSORS VALVE

DIETRICH Valve Scissors, serrated blades.
 Length 9" (229mm)

54-8005 Slight curve
54-8006 Full curve



SCISSORS VALVE



LITWAK Mitral Valve Scissors, angled on side.
Length 11" (279mm)
54-8022 Lesser curve
54-8023 Full curve

SHEARS RIB



56-8043 BETHUNE Rib Shears
Length 14" (356mm)

SHEARS RIB



CARDIO-VASCULAR/
THORACIC

	CORYLLOS Rib Shears		
	Length	14"	(356mm)
56-8055	Left		
56-8056	Right		

56-8051	SAUERBRUCH Rib Shears		
	Length	10½"	(267mm)



SHEARS RIB



56-8044	STILLE-GIERTZ Rib Shears		
	Length	10"	(254mm)

SPREADER VEIN



61-4000	KIMPTON Vein Spreader		
	Total opening	$\frac{3}{8}$ "	(10mm)
	Handle length	1½"	(38mm)
	Shaft length	1½"	(38mm)

STRIPPER RIB



63-8025	MATSON Rib Stripper and Elevator, sharp, double-ended.		
	Elevator width	$\frac{5}{8}$ "	(16mm)
	Stripper width	1¾"	(35mm)
	Length	8½"	(219mm)

SUCTION TUBES

CARDIO-VASCULAR/
THORACIC



70-8035	COOLEY Graft Suction Tube, open end, small side opening.		
	Distal tip diameter	5/16"	(8mm)
	Length	12"	(305mm)



70-8036	COOLEY Vascular Suction Tube, round perforated end.		
	Diameter	1/4"	(6mm)
	Length	11 1/2"	(292mm)



70-8038	COOLEY Left Ventricular Sump Suction Tube, perforated tip, 30° angle.		
	Diameter	5/16"	(8mm)
	Length	11 3/8"	(289mm)



70-8040	METHODIST Vascular Suction Tube		
	Diameter	3/8"	(10mm)
	Length	10"	(254mm)

Replacement tips may be ordered through the Repair Department.



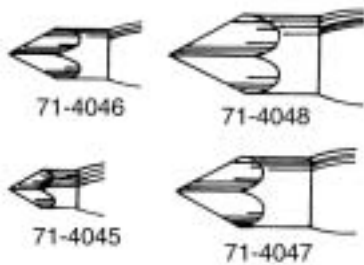
	PACIFICO Suction Tubes		
	Diameter tapers	11-8 Fr.	
70-8047	Short Length	5 1/2"	(140mm)
70-8048	Long Length	7 1/2"	(191mm)

TOURNIQUETS



RUMEL Cardiovascular Tourniquets, with ratchet.		
Adult		
67-8000	Tourniquet with obturator	
Length	12"	(305mm)
Child		
67-8001	Obturator only	
Length	9"	(229mm)
Child		
67-8004	Obturator only	
Length	6"	(152mm)

TROCARS



PATTERSON (NELSON) Empyema Trocars		
Length	8"	(203mm)
71-4045	No. 1	
71-4046	No. 2	
71-4047	No. 3	
71-4048	No. 4	



TUNNELERS



80-8001	CRAWFORD-COOLEY Tunneler, with metal sheath.	
Length	18"	(457mm)

TUNNELERS

CARDIO-VASCULAR/
THORACIC



80-8007 DOSICK Tunneler and Sheath, with detachable bullet tip, bulldog clamp, irrigating tip and two way stop cock.
Length 20" (508mm)
Outside diameter .62" (16mm)

80-8008 DOSICK Bellows Assembly



80-8002 JACKSON Tunneler, includes bullet tip, two way stopcock and irrigating cannula tip.
Length 16¹³/₁₆" (427mm)

TUNNELERS



80-8006 NOON A-V Fistula Tuner, malleable, removable slotted bullet tip.
Length 9" (229mm)
Tip sizes (17mm)
(25mm)

See 80-8010 NOON A-V Fistula Kit.

WIRE TWISTER



73-4005 OCHSNER Wire Twister, with tungsten carbide jaw inserts, threaded shaft for rotation.
Extended length 10½" (267mm)

CLAMP TIP DETAIL

CARDIO-VASCULAR/
THORACIC

19-8104 Crafoord Coarct Clamp



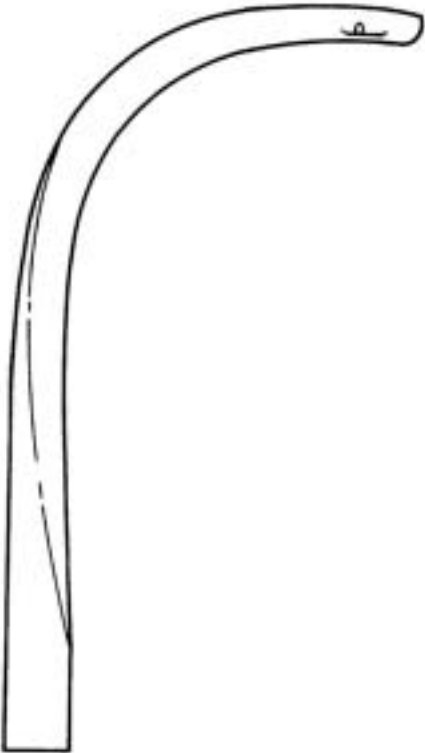
19-8168 Sarot Bronchus Clamp, right



19-8121 Cooley Vena Cava Clamp



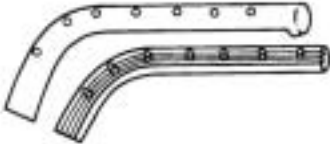
30-8056 Semb Forceps, acute curve



19-8122 Cooley Vena Cava Clamp



19-8167 Sarot Bronchus Clamp, left

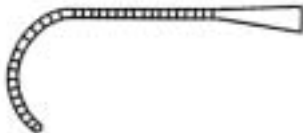


CLAMP TIP DETAIL

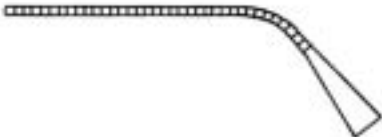
30-9000 Castaneda Multi-Purpose Clamp, 30°



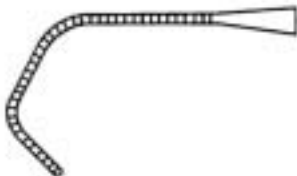
30-9004 Castaneda Anastomosis Clamp, 1.8cm



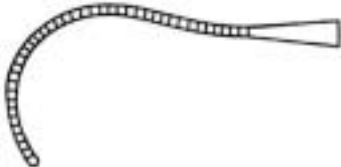
30-9001 Castaneda Multi-Purpose Clamp, 50°



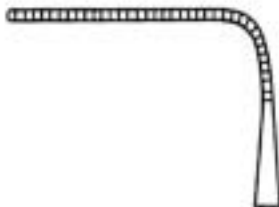
30-9005 Castaneda Anastomosis Clamp, 2.2cm



30-9002 Castaneda Spoon Clamp



30-9006 Castaneda Multi-Purpose Clamp, 90°



30-9003 Castaneda Anastomosis Clamp, 1.5cm



30-9011 Castaneda Multi-Purpose Clamp, straight



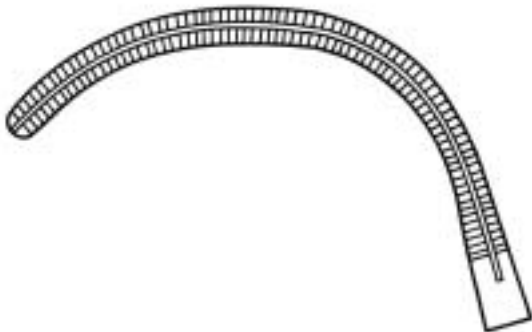
CLAMP TIP DETAIL

CARDIO-VASCULAR/
THORACIC

37-1015 Dietrich Aorta Clamp



37-1024 Reul Aorta Clamp



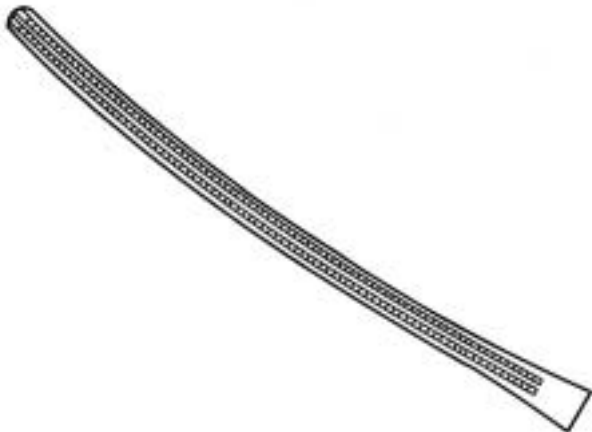
37-1020 Key Aorta Clamp



37-1025 Lambert-Kay Aorta Clamp



37-1021 Maitox Aorta Clamp

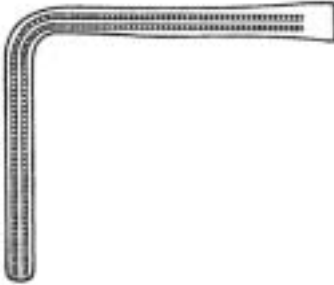


37-1026 Ochsner Aorta Clamp



CLAMP TIP DETAIL

37-1030 Lees Right-Angle Clamp



37-1072 Debakey Bulldog Ring, 45°



37-1035 Lees Bronchus Clamp



37-1073 Debakey Bulldog Ring, 90°



37-1074 Debakey Bulldog Ring, small



37-1070 Debakey Bulldog Ring, straight



37-1080 L Jones Vascular Clamp, 15°



37-1071 Debakey Bulldog Ring, curved



37-1081 L Jones Vascular Clamp, 30°



CLAMP TIP DETAIL

CARDIO-VASCULAR/
THORACIC

37-1085 Glover Ductus Clamp, straight



37-1086 Glover Ductus Clamp, angled



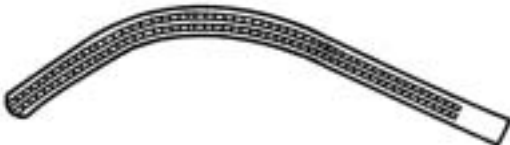
37-1090 Glover Coarct Clamp, straight



37-1091 Glover Coarct Clamp, angled



37-1095 Glover Curved Clamp, standard



37-1096 Glover Curved Clamp, x-long



37-1097 Glover Curved Clamp, x-right angle



37-1100 Glover Spoon Clamp, standard

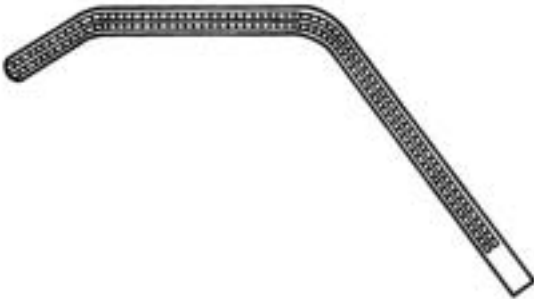


37-1101 Glover Spoon Clamp, x-long



CLAMP TIP DETAIL

37-1105 Glover Appendage Clamp



37-1120 Debakey Aorta Exclusion Clamp



37-1110 Debakey Angle Vascular Clamp, straight



37-1125 Debakey Vascular Clamp, curved



37-1115 Debakey Vascular Clamp, s shape



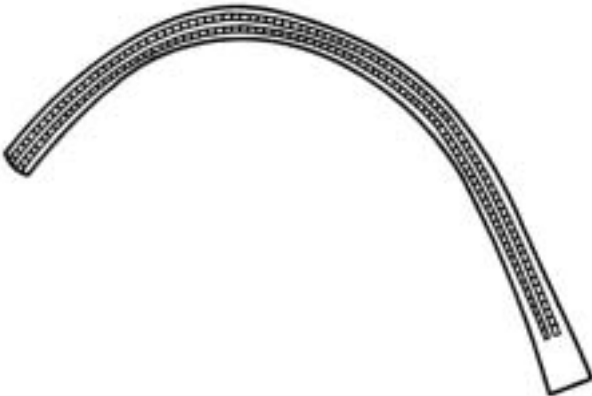
37-1130 Debakey Vascular Clamp, acute curved



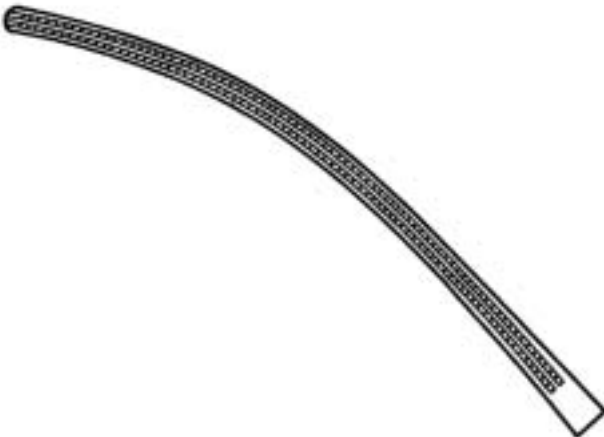
CLAMP TIP DETAIL

CARDIO-VASCULAR/
THORACIC

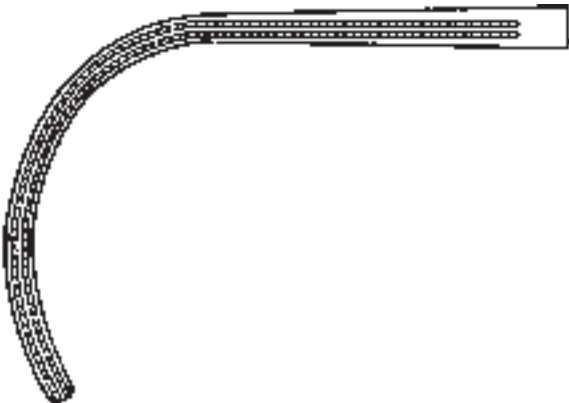
37-1131 Debakey Vascular Clamp, acute curved x-long



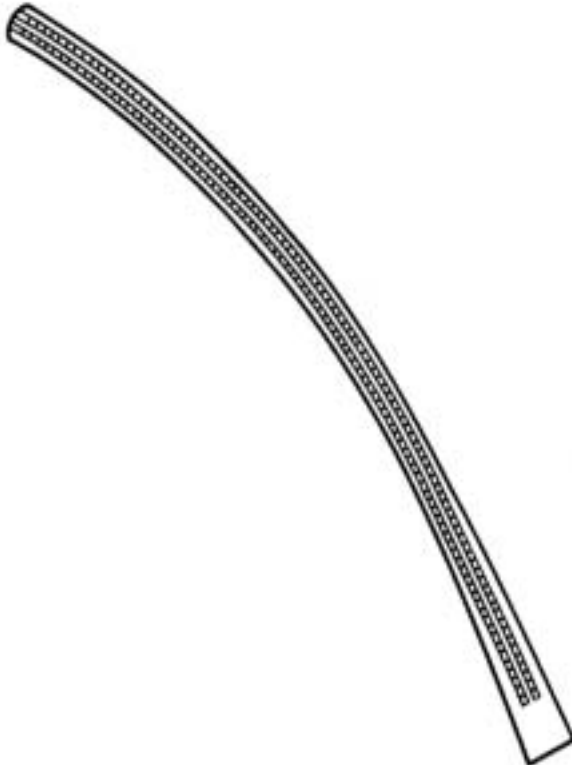
37-1141 Debakey Aneurism Clamp, 10 1/2



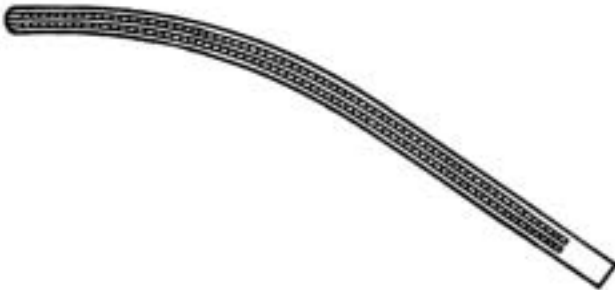
37-1132 Debakey-Semb Clamp



37-1142 Debakey Aneurism Clamp, 12

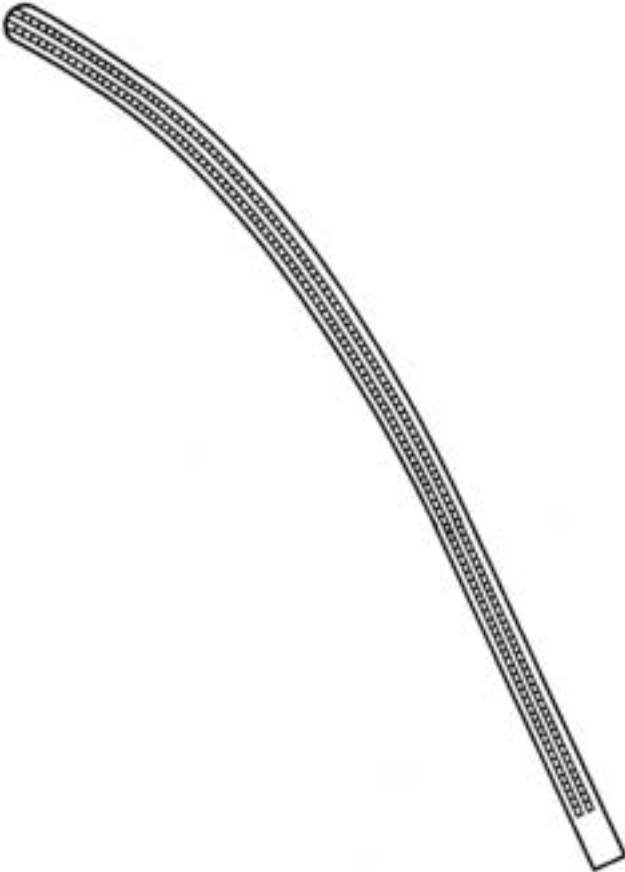


37-1140 Debakey Aneurism Clamp, 9 1/2



CLAMP TIP DETAIL

37-1143 Debakey Aneurism Clamp, 12 1/2



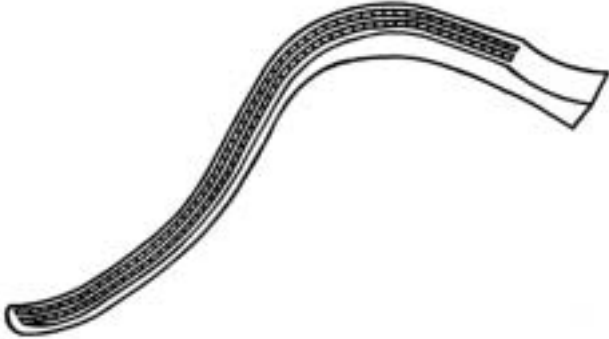
37-1160 Debakey Ductus Clamp, straight



37-1161 Debakey Ductus Clamp, angled



37-1165 Debakey Aorta Clamp



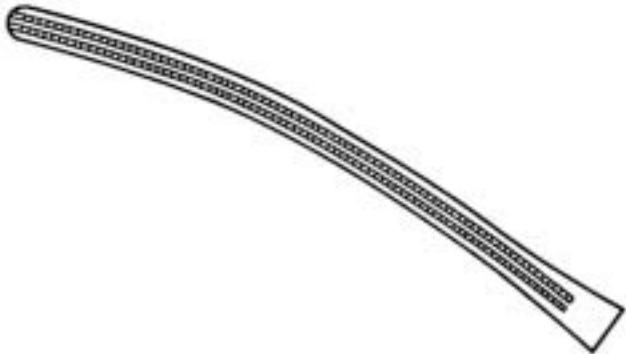
37-1150 Debakey Coarct Clamp, straight



37-1151 Debakey Coarct Clamp, angled



37-1166 Garcia Aorta Clamp



CLAMP TIP DETAIL

CARDIO-VASCULAR/
THORACIC

37-1170 Debakey Multi-Purpose Clamp, 60°, 9 1/2



37-1193 Debakey Tangential Occlusion Clamp, #4



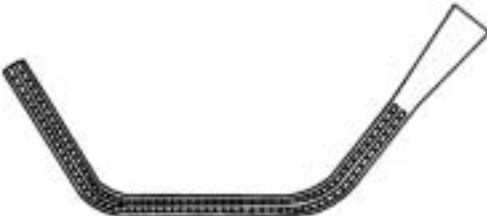
37-1190 Debakey Tangential Occlusion Clamp, #1



37-1194 Debakey Tangential Occlusion Clamp, #5



37-1191 Debakey Tangential Occlusion Clamp, #2



37-1192 Debakey Tangential Occlusion Clamp, #3



37-1200 Satinsky Vena Cava Clamp, large

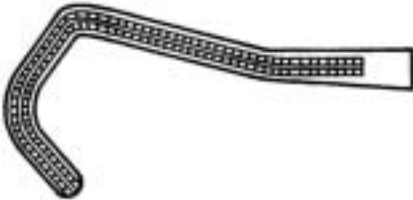


CLAMP TIP DETAIL

37-1201 Satinsky Vena Cava Clamp, medium



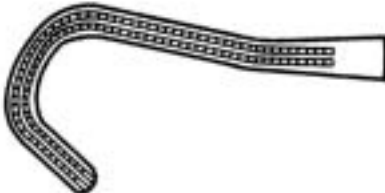
37-1221 Derra Anastomosis Clamp, medium



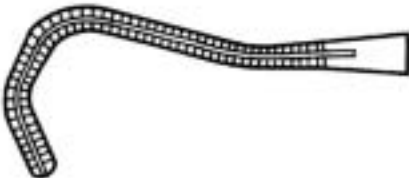
37-1202 Satinsky Vena Cava Clamp, small



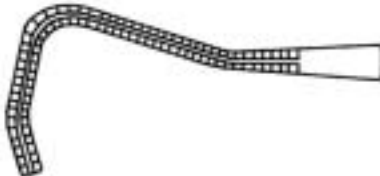
37-1222 Derra Anastomosis Clamp, large



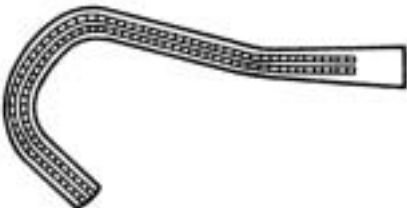
37-1210 Cooley Anastomosis Clamp



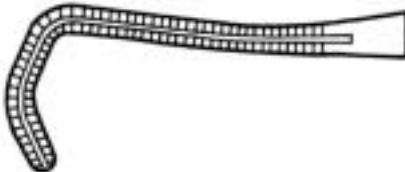
37-1225 Anastomosis Clamp



37-1220 Derra Anastomosis Clamp, small



37-1230 Cooley Modified Anastomosis Clamp



CLAMP TIP DETAIL

CARDIO-VASCULAR/
THORACIC

37-1240 Renal Artery Clamp, 18.5cm



37-1241 Renal Artery Clamp, 19.5cm



37-1242 Renal Artery Clamp, 27.0cm



37-1250 Cooley Ductus Clamp, straight



37-1251 Cooley Ductus Clamp, angled



37-1260 Cooley Coarct Clamp, straight



37-1261 Cooley Coarct Clamp, straight jaws, angled shaft



37-1262 Cooley Coarct Clamp, curved



37-1263 Cooley Coarct Clamp, spoon



CLAMP TIP DETAIL

37-1270 Beck Vessel Clamp, small



37-1271 Beck Vessel Clamp, large



37-1272 Beck Aorta Mini Clamp



37-1273 Subra Mini Aorta Clamp



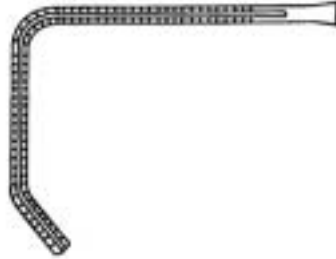
37-1275 Henly Modified Vascular Clamp



37-1280 Cooley Pediatric Clamp, 90°, small



37-1281 Cooley Pediatric Clamp, 90°, large



CLAMP TIP DETAIL

CARDIO-VASCULAR/
THORACIC

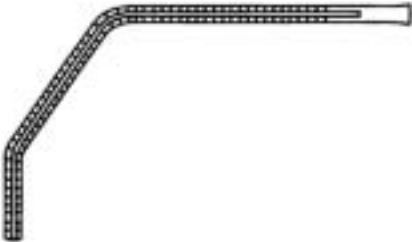
37-1282 Cooley Pediatric Clamp, 60°, small



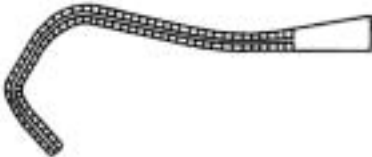
37-1292 Cooley Multi-Purpose Clamp, 90°



37-1283 Cooley Pediatric Clamp, 60°, large



37-1300 Cooley-Derra Clamp, small



37-1301 Cooley-Derra Clamp, medium



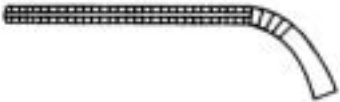
37-1290 Cooley Multi-Purpose Clamp, 30°



37-1302 Cooley-Derra Clamp, large

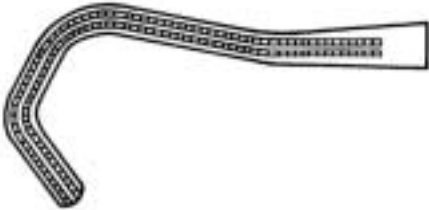


37-1291 Cooley Multi-Purpose Clamp, 60°



CLAMP TIP DETAIL

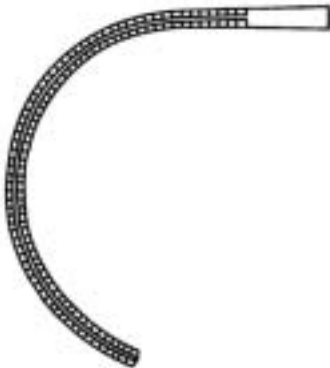
37-1305 Bartley Anastomosis Clamp



37-1310 Cooley Clamp, acute curved, medium



37-1311 Cooley Clamp, acute curved, large



37-1320 Debakey Multi-Purpose Clamp, 30°



37-1321 Debakey Multi-Purpose Clamp, 60°



37-1322 Debakey Multi-Purpose Clamp, 90°



37-1323 Reynolds Clamp, 50°, small jaw



37-1324 Reynolds Clamp, 50°, large jaw



CLAMP TIP DETAIL

CARDIO-VASCULAR/
THORACIC

37-1325 Reynolds Clamp, 85°, small jaw



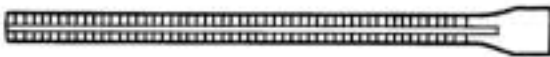
37-1326 Reynolds Clamp, 85°, small jaw



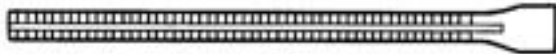
37-1400 Cooley Aorta Clamp, 10 1/2"



37-1401 Cooley lilac Clamp, 10"



37-1402 Cooley lilac Clamp, 8 1/2"



37-1700 Morris Aorta Clamp, 8"



37-1701 Morris Aorta Clamp, 10"



CURETTES UTERINE

23-5608	MEIGS Uterine Curette, serrated cup.		
	Cup size		(5x10mm)
	Length	10"	(254mm)

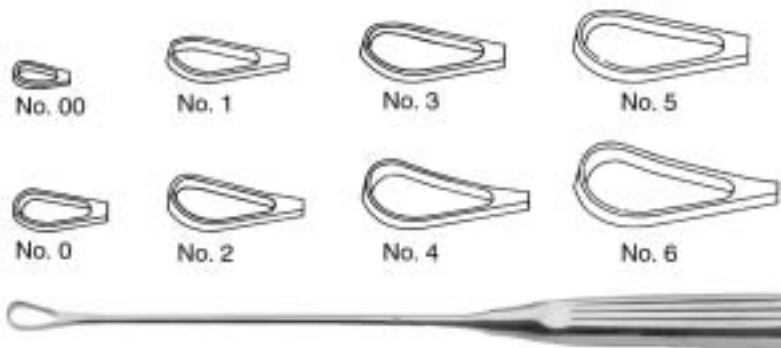


SIMS Uterine Curettes, sharp, one-piece construction.

23-5541	No. 1	Length	10"	(254mm)
23-5542	No. 2	Length	10"	(254mm)
23-5543	No. 3	Length	10"	(254mm)
23-5544	No. 4	Length	10¼"	(260mm)
23-5545	No. 5	Length	10¼"	(260mm)
23-5546	No. 6	Length	10¼"	(260mm)



OBSTETRICS/
GYNECOLOGICAL



SIMS Uterine Curettes, sharp, malleable shaft.

23-5532	No. 00
23-5533	No. 0
23-5534	No. 1
23-5535	No. 2
23-5536	No. 3
23-5537	No. 4
23-5538	No. 5
23-5539	No. 6

CURETTES UTERINE



	THOMAS Uterine Curettes, blunt, malleable shaft.		
	Length	11"	(279mm)
23-5500	No. 1		
23-5501	No. 2		
23-5502	No. 3		
23-5503	No. 4		
23-5504	No. 5		
23-5505	No. 6		



23-5599	DUNCAN Endometrial Biopsy Curette, rounded end.		
	Cup size		3x12mm
	Length	11½"	(292mm)



23-5670	HEANEY Endometrial Biopsy Curette, malleable shaft, serrated cup.		
	Cup size		5x8mm
	Length	9¾"	(248mm)



23-5574	MODIFIED YOUNGE Endometrial Biopsy Curette, square end.		
	Cup size		3x12mm
	Length	11¾"	(298mm)

DILATORS UTERINE

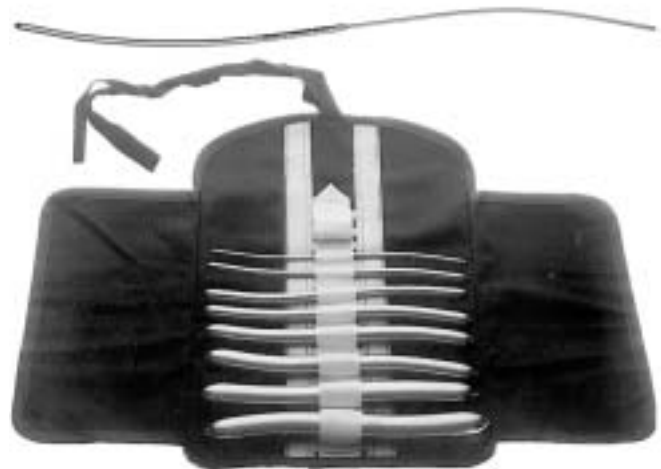
- 25-5549** HANKS Uterine Dilators, double-ended, solid. Complete set of six in canvas roll.
 $\frac{9}{10}$ to $\frac{19}{20}$ Length $10\frac{1}{2}$ " (267mm)
 HANKS Uterine Dilators, single sizes
 Length $10\frac{1}{2}$ " (267mm)
- 25-5540** $\frac{9}{10}$
25-5541 $\frac{11}{12}$
25-5542 $\frac{13}{14}$
25-5543 $\frac{15}{16}$
25-5544 $\frac{17}{18}$
25-5545 $\frac{19}{20}$

Dilator sizes are given in French gauge.



- 25-5525** HEGAR Uterine Dilator
 $\frac{1}{2}$ Length 8" (203mm)
- 25-5536** HEGAR Uterine Dilators double-ended, hollow, chrome-plated. Complete set of eight in canvas roll.
 $\frac{3}{4}$ to $\frac{17}{18}$ Length 8" (203mm)
 HEGAR Uterine Dilators, single sizes.
 Length 8" (203mm)
- 25-5526** $\frac{3}{4}$
25-5527 $\frac{5}{8}$
25-5528 $\frac{7}{8}$
25-5529 $\frac{9}{10}$
25-5530 $\frac{11}{12}$
25-5531 $\frac{13}{14}$
25-5533 $\frac{17}{18}$
25-5532 $\frac{15}{16}$

Dilator sizes are given in French gauge.



- 25-5550** PRATT Uterine Dilators, double-ended, stainless steel. Similar to HEGAR Dilators but longer. Complete set of eight in kakhi roll.
 Length $11\frac{7}{8}$ " (300mm)
- 25-5551** $\frac{13}{16}$
25-5552 $\frac{17}{19}$
25-5553 $2\frac{1}{23}$
25-5554 $2\frac{5}{27}$
25-5555 $2\frac{9}{31}$
25-5556 $3\frac{3}{35}$
25-5557 $3\frac{7}{39}$
25-5558 $4\frac{1}{43}$

Dilator sizes are given in French gauge.



OBSTETRICS/
GYNECOLOGICAL

EXTRACTORS



80-5550 MURLESS Fetal Head Extractor

FORCEPS BREAST



19-4004 ADAIR Breast Clamp
Length 7¼" (197mm)

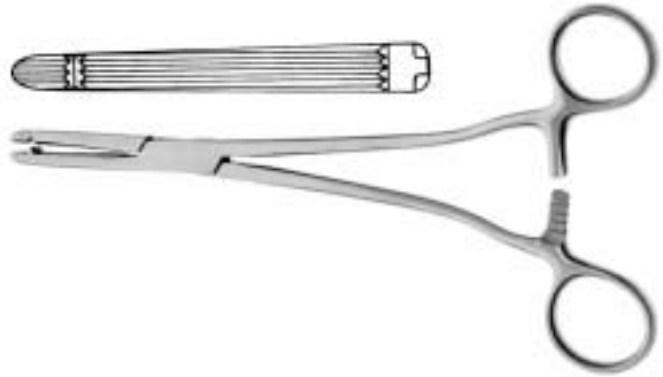
FORCEPS CERVICAL



30-5570 BOSTON LYING-IN Cervical Grasping Forceps
Length 9½" (241mm)

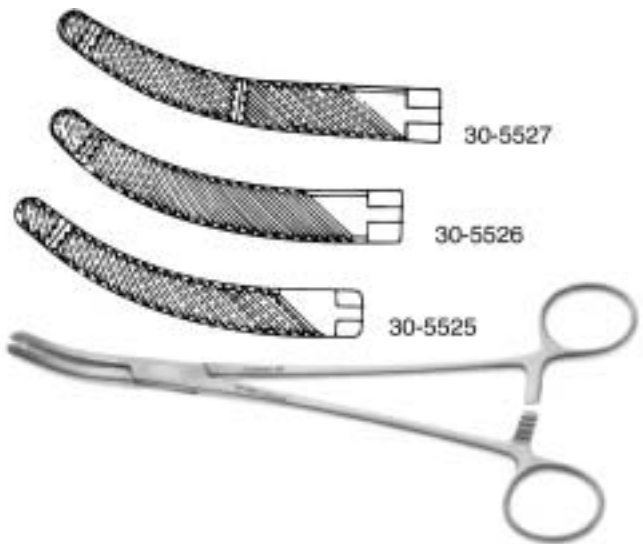
FORCEPS HYSTERECTOMY

30-5801 BALLANTINE Hysterectomy Forceps, straight, single tooth.
 Jaw length 1¾" (44mm)
 Length 8½" (216mm)



HEANEY Hysterectomy Forceps, curved.
 Jaw length 1½" (38mm)
 Length 8¼" (210mm)

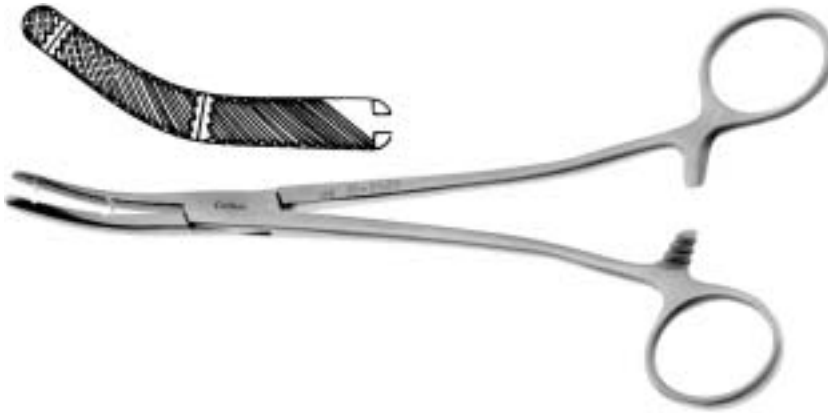
30-5525 Light Jaws, single tooth
30-5526 Heavy Jaws, single tooth
30-5527 Heavy Jaws, double tooth



19-5505 HEANEY-BALLANTINE Hysterectomy Forceps, curved, single tooth.
 Jaw length 1½" (38mm)
 Length 8⅞" (213mm)

OBSTETRICS/
GYNECOLOGICAL

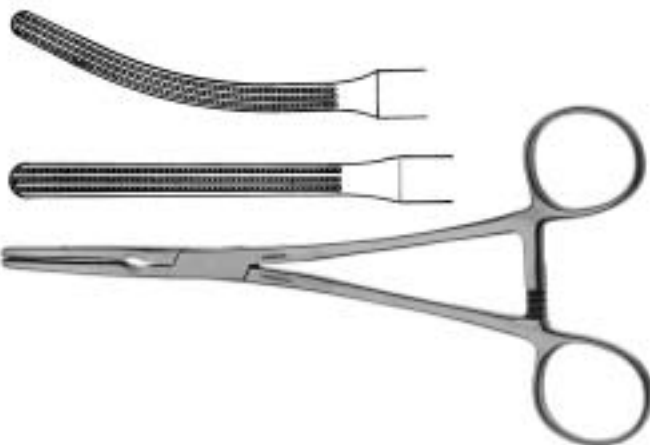
FORCEPS HYSTERECTOMY



30-5529 HEANEY-KANTER Hysterectomy
Forceps, curved, double tooth.
Jaw length 1 $\frac{3}{4}$ " (44mm)
Length 8 $\frac{1}{2}$ " (216mm)



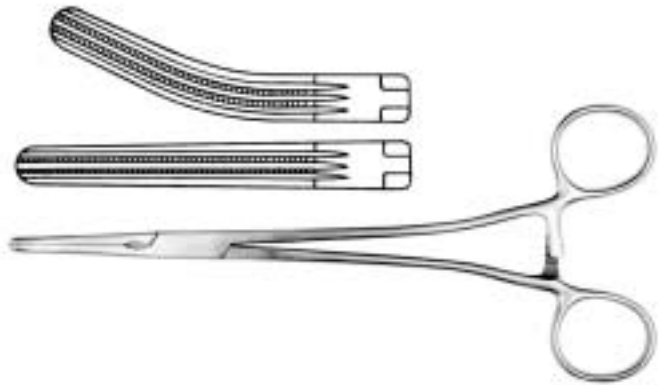
30-5800 HEANEY-REZAK Hysterectomy
Forceps, straight, single tooth.
Jaw length 1 $\frac{7}{8}$ " (48mm)
Length 8 $\frac{1}{2}$ " (216mm)



MASTERSON® Hysterectomy Forceps,
2x3 vascular teeth.
Jaw length 1 $\frac{5}{8}$ " (41mm)
Total length 8 $\frac{1}{2}$ " (216mm)
37-1520 Straight
37-1521 Curved

FORCEPS HYSTERECTOMY

	ROGERS Hysterectomy Forceps, 2x3 vascular teeth, SAROT style shanks.		
	Jaw length	1½"	(38mm)
	Total length	8½"	(216mm)
37-1500	Curved		
37-1501	Straight		
	Jaw length	1¾"	(44mm)
	Total length	10"	(254mm)
37-1502	Straight		
37-1503	Curved		



FORCEPS MICRO

OBSTETRICS/
GYNECOLOGICAL

	E-SERIES* Forceps, straight, TITANIUM. Closing Pressure 50 gms. (approximate)		
	Tip width		1mm
	Length	6"	(152mm)
80-6001	Ring tip		
80-6002	Ring tip, serrated		



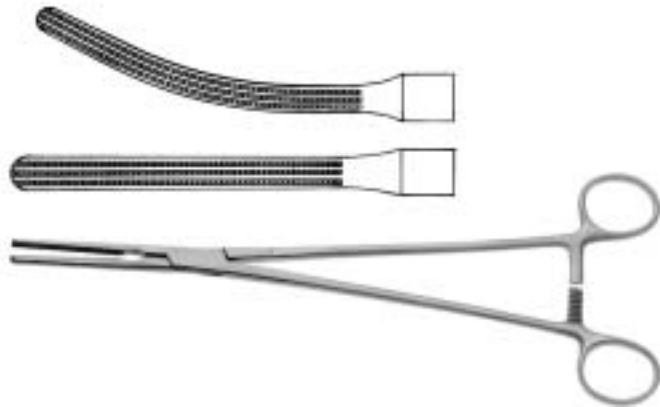
	E-SERIES* XF Forceps, Titanium		
	Length	6"	(152mm)
80-6630	Extra Fine Tying Tip	Tip width	.7mm
	Straight		
80-6631	Extra Fine Utility	Tip width	.3mm
	Straight		



	E-SERIES* Non-Stick Mirror Finish Bipolar Forceps, straight, TITANIUM. Unique tip alignment system.		
	Closing Pressure 75 gms. (approximate)		
	Length	5⅝"	(143mm)
80-2962	Fine	Tip width	.3mm
80-2963	Regular	Tip width	1mm

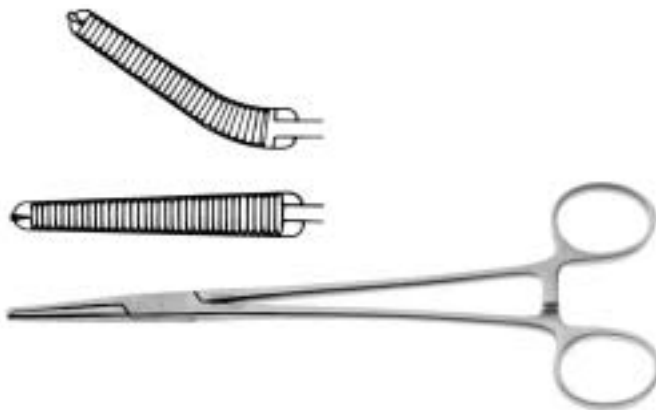


FORCEPS PELVIC CLAMP



	MASTERSON Pelvic Clamp, 2x3 vascular teeth.	
	Jaw length	1¾" (45mm)
	Total length	10½" (267mm)
37-1522	Straight	
37-1523	Curved	

FORCEPS UTERINE ARTERY



	PHANEUF Uterine Artery Forceps, 1x2 teeth.	
	Length	8¼" (210mm)
30-5535	Straight	
30-5536	Angled	

FORCEPS UTERINE BIOPSY



30-5545	GAYLER Uterine Biopsy Forceps, round jaws.	
	Jaw I.D.	¾" (5mm)
	Length	8½" (216mm)

FORCEPS UTERINE BIOPSY



30-5825 MODIFIED YOUNGE Uterine Biopsy Forceps,
oblong basket jaw.
Jaw size 3x10mm
Shaft length 10" (254mm)



51-5515 SCHUBERT Uterine Biopsy Forceps,
oblong basket jaw.
Curved
Jaw size 4x7mm
Length 10½" (267mm)

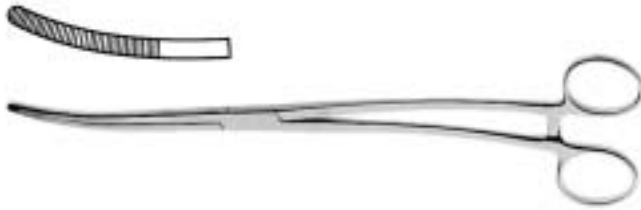


30-5546 THOMS-GAYLER Uterine Biopsy Forceps,
bent shanks.
Jaws I.D. 5mm
Length 8" (203mm)



51-5510 WITTNER Uterine Biopsy Forceps,
oblong basket jaws with teeth.
Straight
Jaw size 5x8mm
Shaft length 8" (203mm)

FORCEPS UTERINE DRESSING



30-5561 BOZEMAN Uterine Dressing Forceps, curved shafts and shanks.
Length 10" (254mm)



30-5640 LAUFE Uterine Polyp Forceps, curved.
Length 8" (203mm)

FORCEPS UTERINE TENACULUM



30-5580 SCHROEDER Uterine Tenaculum Forceps, straight, 1x1 sharp teeth.
Length 8¾" (222mm)

FORCEPS UTERINE VULSELLUM

30-5605 JACOBS Uterine Vulsellum Forceps,
serrated jaws, 2x2 sharp teeth.
Length 8¼" (210mm)



30-5604 M.G.H. Uterine Vulsellum Forceps,
3x3 sharp teeth.
Length 8" (203mm)



30-5595 SCHROEDER Uterine Vulsellum Forceps,
2x2 sharp teeth.
Length 9" (229mm)



30-5615 TEALE Uterine Vulsellum Forceps,
curved on side, 4x5 sharp teeth.
Length 10½" (257mm)

OBSTETRICS/
GYNECOLOGICAL

FORCEPS OBSTETRICAL



30-5671 KIELLAND Obstetrical Forceps, fenestrated blades.
Length 15½" (394mm)



30-5675 LUIKART Obstetrical Forceps, solid blades.
Length 15½" (394mm)



30-5666 McLANE-LUIKART Obstetrical Forceps, solid blades.
Length 15½" (394mm)

FORCEPS OBSTETRICAL

30-5668 McLANE-TUCKER Obstetrical Forceps, solid blades.
Length 15" (381mm)



30-5680 PIPER Obstetrical Forceps, fenestrated blades.
Length 17½" (445mm)



SIMPSON Obstetrical Forceps, fenestrated blades
30-5655 Length 12" (305mm)
30-5656 Length 14" (356mm)

OBSTETRICS/
GYNECOLOGICAL

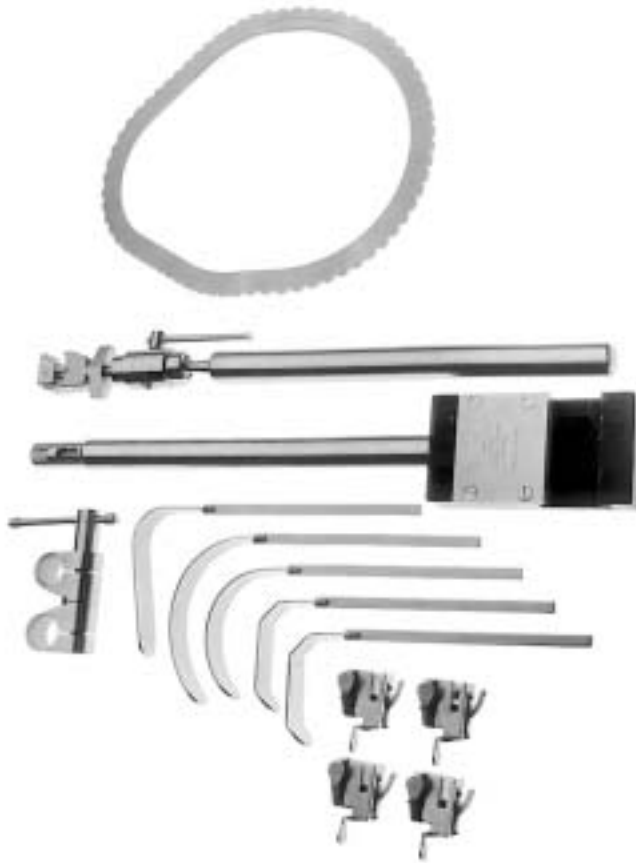
FORCEPS PLACENTA



30-5695 KELLY Placenta Forceps, serrated jaw.
Length 12" (305mm)

KITS

MAGRINA-BOOKWALTER VAGINAL



-
- 50-4547** MAGRINA BOOKWALTER Vaginal Retractor
Includes:
 - 50-4590** Vaginal Retractor Ring I.D. 8" x 10½"
(203mm x 206mm)
 - 50-4591** Lateral Retractor Blade (2 ea) 1" x 3"
(25mm x 89mm)
 - 50-4592** Deaver Blade, Small 1" x 3½" (25mm x 89mm)
 - 50-4593** Deaver Blade, Large 1" x 5" (25mm x 127mm)
 - 50-4594** Posterior Blade 1" x 4½" (114mm)
 - 50-4554** Post Coupling 1"
 - 50-4582** Horizontal Flex Bar
 - 50-4581** Table Post 1"
 - 50-4580** Tilt Ratchet Mechanism (4 ea)
-

NOTE: Refer to Retractors, Table Fixed in the GENERAL section of this catalog for individual product descriptions.

KITS MICRO-INFERTILITY

CODMAN E-SERIES Instruments are ergonomically engineered for maximum comfort and control. These instruments are manufactured from non-glare TITANIUM for the proper size-to-weight ratio, long life, and anti-magnetic function. The E-SERIES instruments are designed for use in microinfertility procedures (order instruments separately).
Lengths 6" (152mm)

- 80-6001** Platform Forceps, 1mm ring, two each.
- 80-6002** Tissue Platform Forceps, 1mm serrated ring.
- 80-6006** Needle Holder, curved, fine.
- 80-6007** Needle Holder, curved, standard.
- 80-6008** Scissors, straight serrated tips, fine.
- 80-6009** Scissors, straight, serrated tips, standard.
- 80-2962** Non-Stick Mirror Finish Bipolar Forceps, .3mm tip, 5 $\frac{5}{8}$ ".
- 80-2963** Non-Stick Mirror Finish Bipolar Forceps, 1mm tip, 6".
- 80-1566** MICROCARE® POLYTEC Instrument Case, large.

OBSTETRICS/
GYNECOLOGICAL

NEEDLE HOLDERS MICRO

E-SERIES* Needle Holders, curved, TITANIUM.

- | | | | |
|----------------|--------------|-----------|---------|
| | Length | 6" | (152mm) |
| 80-6006 | Fine tip | Tip width | .7mm |
| 80-6007 | Standard tip | Tip width | 1mm |



E-SERIES* XF Needle Holders, Titanium

- | | | | |
|----------------|----------------|-----------|---------|
| | Length | 6" | (150mm) |
| 80-6620 | Extra Fine Tip | Tip width | .5mm |
| | Straight | | |
| 80-6621 | Extra Fine Tip | Tip width | .5mm |
| | Curved | | |



RETRACTORS HAND-HELD



HEANEY Hysterectomy Retractors		
50-5565	Blade width	1" (25mm)
	Blade depth	1¾" (44mm)
	Length	6½" (165mm)
50-5566	Blade width	1⅛" (29mm)
	Blade depth	2⅞" (73mm)
	Length	6½" (165mm)
50-5567	Blade width	1⅛" (29mm)
	Blade depth	¾" (83mm)
	Length	6½" (165mm)



50-5570	HEANEY-SIMON Hysterectomy Retractor	
	Blade width	1" (25mm)
	Blade depth	4½" (114mm)
	Length	10¼" (260mm)



50-5575	DELEE Universal Retractor	
	Blade width	2¾" (70mm)
	Blade depth	2" (51mm)
	Length	9½" (241mm)

RETRACTORS HAND-HELD

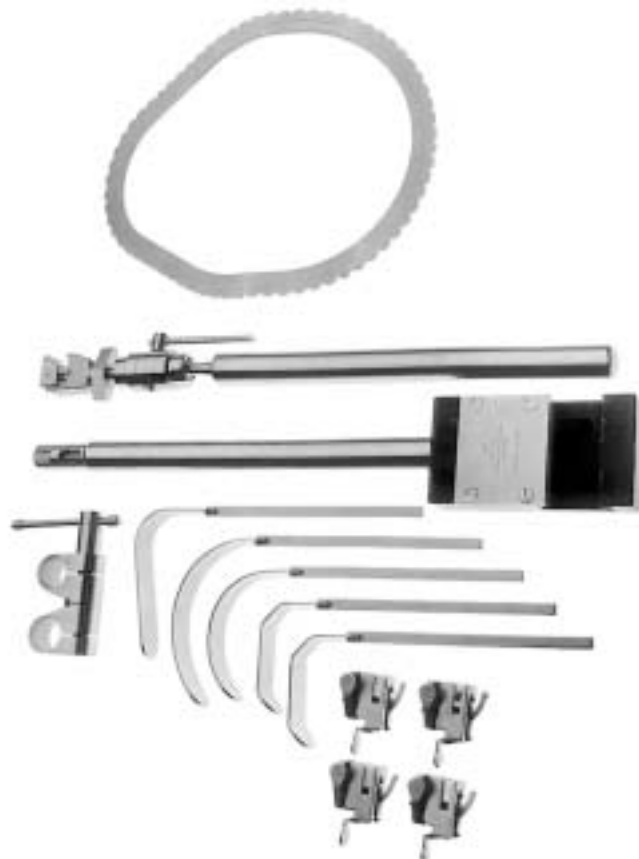
JACKSON Vaginal Retractors			
50-5540	Blade width	1½"	(38mm)
	Blade depth	3"	(76mm)
	Length	6¾"	(171mm)
50-5541	Blade width	1½"	(38mm)
	Blade depth	3½"	(89mm)
	Length	6¾"	(171mm)
50-5542	Blade width	1½"	(38mm)
	Blade depth	4"	(102mm)
	Length	6¾"	(171mm)



RETRACTORS, TABLE FIXED MAGRINA-BOOKWALTER VAGINAL

50-4547	MAGRINA BOOKWALTER Vaginal Retractor Includes:
50-4590	Vaginal Retractor Ring I.D. 8" x 10½" (203mm x 206mm)
50-4591	Lateral Retractor Blade (2 ea) 1" x 3" (25mm x 89mm)
50-4592	Deaver Blade, Small 1" x 3½" (25mm x 89mm)
50-4593	Deaver Blade, Large 1" x 5" (25mm x 127mm)
50-4594	Posterior Blade 1" x 4½" (114mm)
50-4554	Post Coupling 1"
50-4582	Horizontal Flex Bar
50-4581	Table Post 1"
50-4580	Tilt Ratchet Mechanism (4 ea)

NOTE: Refer to Retractors, Table Fixed in the GENERAL section of this catalog for individual product descriptions.



SCISSORS UMBILICAL



54-5545 AMERICAN Umbilical Scissors
Length 4" (102mm)



54-5578 BUSCH Umbilical Scissors, curved on side.
Length 6½" (165mm)

SCISSORS EPISIOTOMY



54-5579 BRAUN Episiotomy Scissors, one
guarded blade.
Length 8½" (216mm)

SCISSORS EPISIOTOMY

54-5526 ROBERTS Episiotomy Scissors,
serrated blade.
Length 5½" (140mm)



SIMS Uterine Scissors
Length 8" (203mm)
54-5500 Straight, blunt/blunt
54-5503 Curved, blunt/blunt



OBSTETRICS/
GYNECOLOGICAL

SCISSORS MICRO

E-SERIES* Scissors, straight, TITANIUM,
serrated jaws.
Length 6" (152mm)
80-6008 Fine tip
80-6009 Regular tip



SCISSORS MICRO



E-SERIES* XF Scissors, TITANIUM.
Length 6" (152mm)
80-6640 Extra Fine, Straight
80-6641 Extra Fine, Curved
80-6642 Extra Fine, 60° Angled, Straight Blade

SOUNDS UTERINE



SIMPSON Uterine Sound, silver plated.
Length 13³/₈" (340mm)
58-5669 Graduated in centimeters

SPECULA



AUVARD Vaginal Weighted Specula.

	Blade width	1½"	(38mm)
	Length	9"	(229mm)
79-5505	Blade depth	3"	(76mm)
	Weight	2 lb.	(.90kg)
79-5506	Blade depth	3"	(76mm)
	Weight	2½ lb.	(1.14kg)

OBSTETRICS/
GYNECOLOGICAL



AUVARD Vaginal Weighted Specula

	Blade width	1¾"	(44mm)
	Length	10"	(254mm)
	Weight	2½ lb.	(1.14kg)
79-5508	Blade depth	3"	(76mm)
79-5509	Blade depth	3½"	(89mm)
79-5510	Blade depth	4"	(102mm)

SPECULA



79-5592	BERLIND-AUVARD Vaginal Weighted Speculum.		
	Blade width	1 $\frac{3}{4}$ "	(44mm)
	Blade depth	4"	(102mm)
	Length	9 $\frac{1}{4}$ "	(235mm)
	Weight	2 $\frac{1}{2}$ lb.	(1.14kg)



	GRAVES Vaginal Specula, original model.		
79-5513	Blade width	$\frac{3}{4}$ "	(19mm)
	Blade depth	3"	(76mm)
79-5514	Blade width	1 $\frac{1}{4}$ "	(32mm)
	Blade depth	4"	(102mm)
79-5515	Blade width	1 $\frac{1}{4}$ "	(32mm)
	Blade depth	4 $\frac{1}{2}$ "	(114mm)

SPECULA

79-5590	GRAVES Vaginal Specula, modified model.		
	Blade width	1¼"	(32mm)
	Blade depth	4"	(102mm)



OBSTETRICS/
GYNECOLOGICAL

79-5520	PEDERSEN Vaginal Specula		
	Blade width	½"	(13mm)
79-5521	Blade depth	3"	(76mm)
	Blade width	7/8"	(22mm)
79-5522	Blade depth	3½"	(89mm)
	Blade width	1"	(25mm)
	Blade depth	4"	(102mm)



TROCARS

71-5500	WILSON Amniotic Trocar		
	Length	8⅞"	(225mm)



APPLICATOR

49-6526	FARRELL Applicator, triangular tip.		
	Length	6½"	(165mm)
	Tip size		(.8mm)



CALIPERS

39-6500	CASTROVIEJO Calipers, with scale graduated on both sides 0 to 20mm.		
	Length	3½"	(89mm)

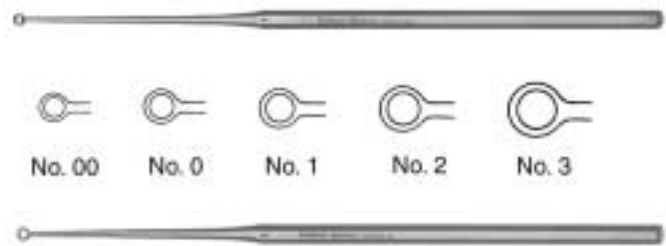


CURETTES

BARNHILL Adenoid Curettes			
	Length	8½"	(216mm)
23-6760	No. 0	Tip size ½"	(13mm)
23-6761	No. 1	Tip size ⅔"	(15mm)
23-6762	No. 2	Tip size ¾"	(19mm)
23-6763	No. 3	Tip size ⅘"	(20mm)
23-6764	No. 4	Tip size ⅞"	(23mm)



BUCK Ear Ring Curettes Sharp			
	Length	6½"	(165mm)
		Tip	
23-6535	No. 00	2mm	
23-6536	No. 0	2.5mm	
23-6537	No. 1	3.0mm	
23-6538	No. 2	3.5mm	
23-6539	No. 3	4mm	
BUCK Ear Ring Curettes Blunt			
	Length	6½"	(165mm)
		Tip	
23-6560	No. 00	2mm	
23-6561	No. 0	2.5mm	
23-6562	No. 1	3.0mm	
23-6563	No. 2	3.5mm	
23-6564	No. 3	4mm	



EYE/EAR/NOSE/
THROAT

ELEVATORS



65-6562	BALLENGER Septum Elevator, double-ended.		
	Blade width	1/4"	(6mm)
	Length	9"	(228mm)



65-6620	FREER Septum Elevator, double-ended, sharp, and blunt.		
	Blade width		(4.5mm)
	Total length	7 1/8"	(181mm)

DISSECTORS



65-6600	HURD Tonsil Dissector and Pillar Retractor, double-ended.		
	Length	8 3/4"	(222mm)
	Tip sizes	1/2"	(13mm)
		3/10"	(7.6mm)

DEPRESSORS



	WIEDER Tongue Depressors, fenestrated-serrated blade.		
83-6505	Small blade width	1 3/16"	(30mm)
83-6506	Large blade width	1 3/8"	(35mm)

FORCEPS

30-6951 HARTMANN Ear Forceps, angular serrated.
Shaft length 3½" (89mm)
Tip size ⅜" (7.6mm)



30-6898 LUCAE Ear Forceps, bayonet shape.
Working distance 2¾" (70mm)
Length 5½" (140mm)
Tip width 2mm



EYE/EAR/NOSE/
THROAT



30-4340 MAGILL Endotracheal Catheter Introducing
Forceps
Length 9½" (241mm)

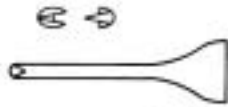
FORCEPS



	EYE Dressing Forceps		
	Tip width		1mm (102mm)
30-6520	Length	4"	
	Straight		
30-6524	Curved		



30-6585	VON GRAEFE Fixation Forceps, without teeth.		
	Tip width		2mm (111mm)
	Length	4 3/4"	



	BISHOP HARMAN Iris Forceps, 1x2 teeth.		
	Length	3 1/4"	(83mm)
30-6555	Standard	Tip width	.5mm
30-6556	Delicate	Tip width	.3mm



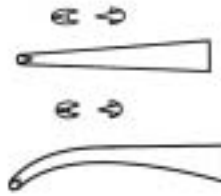
30-6557	BISHOP HARMAN Eye Dressing Forceps, straight.		
	Tip width		.4mm (86mm)
	Length	3 3/8"	



30-7150	JANSEN-MIDDLETON Septum Cutting Forceps, solid cup jaws.		
	Working distance	4"	(102mm)
	Cup size		5x15mm
	Length	7"	(178mm)

FORCEPS

	IRIS Tissue Forceps, 1x2 teeth.		
	Tip width		.5mm
30-6530	Length	4"	(102mm)
	Straight		
30-6532	Curved		



	WHITE Tonsil Seizing Forceps		
30-7315	Length	7"	(178mm)
30-7316	Length	9"	(229mm)



30-4330	COLLIN Tongue Seizing Forceps		
	Length	6½"	(165mm)



	JANSEN Dressing Forceps, serrated, bayonet shape.		
30-6995	Working distance	3⅛"	(80mm)
	Tip width		2mm
	Length	6½"	(165mm)
30-1160	Working distance	4⅜"	(121mm)
	Tip width		1.8mm
	Length	8½"	(216mm)

EYE/EAR/NOSE/
THROAT

FORCEPS



30-6695	NUGENT Utility Forceps, smooth jaw, angled tip.		
	Tip width		.5mm
	Length	4"	(102mm)

GAGS



	JENNINGS Mouth Gags		
31-6501	Spread	4½"	(114mm)
31-6502	Spread	6"	(152mm)

HOOKS



	GUTHRIE Eye Fixation Hooks, two sharp teeth.		
38-6530	Standard		
	Tip width		2mm
	Length	4¾"	(122mm)
38-6531	Delicate		
	Tip width		1mm
	Length	5¼"	(132mm)



38-6525	TYRRELL Iris Hook, sharp.		
	Tip width		.4mm
	Length	4¾"	(121mm)

HOOKS

38-6642 JOSEPH Nasal Hook, single-prong.
Length 6¼" (159mm)



JOSEPH Nasal Hooks, double-prong.
Length 6¼" (159mm)
38-6645 Tip width ¼" (2mm)
38-6646 Tip width ⅜" (5mm)
38-6647 Tip width ¼" (7mm)
38-6648 Tip width ⅜" (10mm)



CONVERSE Skin Hooks, sharp.
Length 7¼" (184mm)
38-6638 Small hook size ⅛" (3mm)
38-6640 Large hook size ⅓" (5mm)



38-2520 GILLES Skin Hook, sharp.
Length 7⅞" (181mm)
Hook size ⅛" (3mm)



EYE/EAR/NOSE/
THROAT

KNIVES

BALLENGER Swivel Knives, straight.
Total length 8½" (216mm)
40-6770 Blade width 3mm
40-6771 Blade width 4mm
40-6772 Blade width 5mm



40-6775 BALLENGER Swivel Knife, bayonet shape.
Working distance 3½" (89mm)
Blade width 5mm
Total length 8½" (216mm)



KNIVES



40-6852	FISHER Tonsil Knife		
	Blade length	5/8"	(16mm)
	Length	9"	(228mm)

NEEDLE HOLDER



64-6502	BARRAQUER Needle Holder, straight, with catch.		
	Tip width		1mm
	Length	6"	(150mm)

PUNCHES



	HARTMANN Tonsil Punch, with round basket.		
51-6581	Shaft length	5 1/2"	(140mm)
	No. 2 Diameter		(8mm)

RASP



52-1005	JOSEPH Periosteal Raspator, sharp.		
	Working distance	1 5/8"	(41mm)
	Tip width	1/4"	(6mm)
	Length	6 7/8"	(175mm)

RETRACTORS

50-6536	ROLLET Lachrymal Sac Retractor, four prong, sharp.		
	Length	5¼"	(133mm)



SCISSORS

	CASTROVIEJO Corneal Scissors		
54-6571	Curved tip		
	Length	4¼"	(108mm)
54-6572	Angular jaw		
	Length	3¾"	(95mm)



54-6571



54-6572

	KNAPP Iris Scissors		
	Length	4"	(102mm)
54-6524	Straight, sharp/blunt		
54-6525	Curved, sharp/blunt		
54-6526	Straight, blunt/blunt		
54-6527	Curved, blunt/blunt		



54-6666	KNIGHT Nasal Scissors		
	Length	7"	(178mm)



	STEVENS Tenotomy Scissors		
54-6520	Straight	Length	4½" (105mm)
54-6521	Curved	Length	4½" (105mm)
54-6522	Straight	Length	4⅝" (118mm)
54-6523	Curved	Length	4⅝" (118mm)



EYE/EAR/NOSE/
THROAT

SCISSORS



STRABISMUS CLASSIC PLUS™ scissors,
STELLITE™ edge inserts, blunt/blunt.

36-5005 Straight
36-5006 Curved



STRABISMUS Scissors, blunt/blunt.

Length 4½" (114mm)

54-6515 Straight
54-6517 Curved



CLASSIC STRABISMUS Scissors, blunt/blunt

Length 4½" (114mm)

34-6517 Curved



54-6513 WESCOTT Tenotomy Scissors, blunt/blunt.

Length 4¼" (108mm)



54-1081 BOETTCHER Tonsil Scissors, double-edged,
angled on side.

Length 7¼" (184mm)



54-6630 WESCOTT Stitch Scissors, sharp/sharp.

Length 4¼" (108mm)

SNARES

57-6546	TYDINGS Tonsil Snare, with tonsil snare wire.		
	Length	9"	(229mm)
	Wire length	4½"	(114mm)
	Wire diameter		.15mm



	SNARE Wire, prepared, 12 per package.		
	Length	4½"	(114mm)
72-6515	No. 7 Thickness	.46mm	
72-6516	No. 8 Thickness	.51mm	
72-6517	No. 9 Thickness	.56mm	



EYE/EAR/NOSE/
THROAT

SPECULA

79-6669	HALLE Nasal Speculum, adult.		
	Blade length	1¼"	(32mm)
	Length	6"	(152mm)



	KILLIAN Septum Specula		
	Total length	5¼"	(133mm)
79-7011	Blade length	2"	(51mm)
79-7012	Blade length	2½"	(63mm)
79-7013	Blade length	3"	(76mm)



SPECULA



79-6667	TIECK-HALLE Nasal Speculum, infant.
Blade length	5/8" (16mm)
Length	5 1/4" (133mm)



	VIENNA Nasal Specula	
	Length	5 1/4" (133mm)
79-6675	Small	Blade length 1" (27mm)
79-6676	Medium	Blade length 1" (28mm)
79-6677	Large	Blade length 1" (32mm)

ANTERIOR CERVICAL PLATE SYSTEM



The CODMAN Anterior Cervical Plate is designed for immediate internal fixation of the cervical spine following bone grafting procedures.

46-4110 CODMAN Anterior Cervical Plate Kit Includes:

- 46-4111** 24mm Anterior Cervical Plate
- 46-4112** 26mm Anterior Cervical Plate
- 46-4113** 28mm Anterior Cervical Plate
- 46-4114** 30mm Anterior Cervical Plate
- 46-4115** 32mm Anterior Cervical Plate
- 46-4116** 34mm Anterior Cervical Plate
- 46-4117** 36mm Anterior Cervical Plate
- 46-4118** 38mm Anterior Cervical Plate
- 46-4119** 40mm Anterior Cervical Plate
- 46-4120** 42mm Anterior Cervical Plate
- 46-4121** 44mm Anterior Cervical Plate
- 46-4122** 46mm Anterior Cervical Plate
- 46-4123** 48mm Anterior Cervical Plate
- 46-4124** 50mm Anterior Cervical Plate
- 46-4125** 52mm Anterior Cervical Plate
- 46-4126** 54mm Anterior Cervical Plate
- 46-4170** 56mm Anterior Cervical Plate
- 46-4127** 58mm Anterior Cervical Plate
- 46-4171** 60mm Anterior Cervical Plate
- 46-4128** 62mm Anterior Cervical Plate
- 46-4172** 64mm Anterior Cervical Plate
- 46-4129** 66mm Anterior Cervical Plate
- 46-4173** 68mm Anterior Cervical Plate
- 46-4130** 70mm Anterior Cervical Plate
- 46-4174** 74mm Anterior Cervical Plate
- 46-4175** 78mm Anterior Cervical Plate
- 46-4176** 82mm Anterior Cervical Plate
- 46-4177** 86mm Anterior Cervical Plate
- 46-4178** 90mm Anterior Cervical Plate
- 46-4179** 94mm Anterior Cervical Plate
- 46-4180** 98mm Anterior Cervical Plate
- 46-4181** 102mm Anterior Cervical Plate
- 46-4182** 106mm Anterior Cervical Plate
- 46-4184** 110mm Anterior Cervical Plate

46-4196 CODMAN Anterior Cervical Plate Kit (Continued)

- 46-4196** 12mm Standard Cancellous Bone Screw (1 per package)
- 46-4131** 12mm Standard Cancellous Bone Screw (4 per package)
- 46-4197** 15mm Standard Cancellous Bone Screw (1 per package)
- 46-4132** 15mm Standard Cancellous Bone Screw (4 per package)
- 46-4195** Plate Sterilization Tray
- 46-4198** Standard Screw Sterilization Tray

CODMAN Anterior Cervical Plate Placement Instruments

- 46-4165** Drill Guide/Plate Holder, Captured Assembly
- 46-4134** Drill Bit (12mm)
- 46-4135** Drill Bit (15mm)
- 46-4136** Plate Contouring Device
- 46-4137** Bone Tap (12mm)
- 46-4138** Bone Tap (15mm)
- 46-4139** Cam Tightener Assembly
- 46-4141** Screw Driver
- 46-4145** Drill Guide
- 46-4190** Forceps Plate Holder
- 46-4166** Dual Angle Drill Guide/Plate Holder, Captured Assembly
- 46-4142** Instrument Sterilization Tray

ANTERIOR CERVICAL PLATE SYSTEM



- 46-4111** 24mm Anterior Cervical Plate
 - 46-4112** 26mm Anterior Cervical Plate
 - 46-4113** 28mm Anterior Cervical Plate
 - 46-4114** 30mm Anterior Cervical Plate
 - 46-4115** 32mm Anterior Cervical Plate
 - 46-4116** 34mm Anterior Cervical Plate
 - 46-4117** 36mm Anterior Cervical Plate
 - 46-4118** 38mm Anterior Cervical Plate
 - 46-4119** 40mm Anterior Cervical Plate
 - 46-4120** 42mm Anterior Cervical Plate
 - 46-4121** 44mm Anterior Cervical Plate
 - 46-4122** 46mm Anterior Cervical Plate
 - 46-4123** 48mm Anterior Cervical Plate
 - 46-4124** 50mm Anterior Cervical Plate
 - 46-4125** 52mm Anterior Cervical Plate
 - 46-4126** 54mm Anterior Cervical Plate
 - 46-4170** 56mm Anterior Cervical Plate
 - 46-4127** 58mm Anterior Cervical Plate
 - 46-4171** 60mm Anterior Cervical Plate
 - 46-4128** 62mm Anterior Cervical Plate
 - 46-4172** 64mm Anterior Cervical Plate
 - 46-4129** 66mm Anterior Cervical Plate
 - 46-4173** 68mm Anterior Cervical Plate
 - 46-4130** 70mm Anterior Cervical Plate
 - 46-4174** 74mm Anterior Cervical Plate
 - 46-4175** 78mm Anterior Cervical Plate
 - 46-4176** 82mm Anterior Cervical Plate
 - 46-4177** 86mm Anterior Cervical Plate
 - 46-4178** 90mm Anterior Cervical Plate
 - 46-4179** 94mm Anterior Cervical Plate
 - 46-4180** 98mm Anterior Cervical Plate
 - 46-4181** 102mm Anterior Cervical Plate
 - 46-4182** 106mm Anterior Cervical Plate
 - 46-4184** 110mm Anterior Cervical Plate
-



- 46-4196** 12mm Standard Cancellous Bone Screw
(1 per package)
 - 46-4197** 15mm Standard Cancellous Bone Screw
(1 per package)
 - 46-4131** 12mm Standard Cancellous Bone Screw
(4 per package)
 - 46-4132** 15mm Standard Cancellous Bone Screw
(4 per package)
-



- 46-4190** CODMAN Anterior Cervical Plate
Forceps Plate Holder
-

ANTERIOR CERVICAL PLATE SYSTEM

46-4165 CODMAN Anterior Cervical Plate
Drill Guide/Plate Holder, Captured Assembly



46-4136 CODMAN Anterior Cervical Plate Contouring
Device



SPINE

46-4134 CODMAN Anterior Cervical Plate
Drill Bit (12mm)



46-4135 CODMAN Anterior Cervical Plate
Drill Bit (15mm)



ANTERIOR CERVICAL PLATE SYSTEM



46-4137 CODMAN Anterior Cervical Plate Bone Tap (12mm)



46-4138 CODMAN Anterior Cervical Plate Bone Tap (15mm)



46-4139 CODMAN Anterior Cervical Plate CAM Tightener Assembly
Consists of:
CAM Tightener Shaft
CAM Tightener Handle
Replacement CAM Tightener Shaft (46-4192)



46-4141 CODMAN Anterior Cervical Plate Screw Driver



46-4145 CODMAN Anterior Cervical Plate Drill Guide

ANTERIOR CERVICAL PLATE SYSTEM

46-4166 CODMAN Anterior Cervical Plate
Dual Angle Drill Guide/Plate Holder,
Captured Assembly



BIOPSY SET

24-2500 CRAIG Vertebral Body Biopsy Kit,
in stainless steel sterilizing rack.
Includes the following:

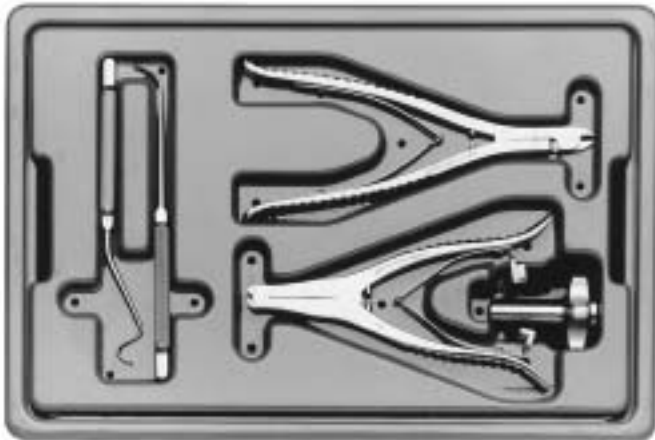
1. Needle, 20G.
(for infiltration of operative area)
2. Needle, 22G.
(for similar use)
3. Calibrated blunt trocars, two.
(for blunt dissection through soft tissues
to vertebral body)
4. Calibrated cannula
(if x-rays demonstrate trocar is in satisfactory
position, cannula is then inserted over it)
5. Tooth cutter
(use within the calibrated cannula
to obtain a 3mm core)
6. Sharp cutter
(use within the calibrated cannula to
obtain a 3mm core)
7. Socket wrench
(used with either cutter)
8. Stylet
(used to expel biopsy section)
9. Sharp worm hook
(to withdraw soft tissue cuttings)

Components of this kit can be ordered
separately from our repair department at
800-343-5969



SPINE

CERVICAL FIXATION CABLE, SOF'WIRE



CODMAN SOF'WIRE® Cable System

Designed for internal, bony fixation including sublaminar interspinous fixation, non-displaced fractures, maxillo facial surgery, sternotomy closure. Consists of SOF'WIRE Cables and a complete set of instruments for application.

SOF'WIRE Sterile Products:

Stainless Steel

- 46-4038** SOF'WIRE Stainless Steel (10 each of 46-4018)
- 46-4019** SOF'WIRE Stainless Steel Single Cable with Leader, 1 Cinch and 1 Tightener
- 46-4021** SOF'WIRE Stainless Steel Double Cable with Central Leader, 2 Cinches and 2 Tighteners
- 46-4024** SOF'WIRE Stainless Steel Cinch Seat, 10 each

Titanium

- 46-4040** SOF'WIRE Titanium Single Cable with Leader, 1 Cinch and 1 Tightener
 - 46-4043** SOF'WIRE Titanium (10 each of 46-4040)
 - 46-4042** SOF'WIRE Titanium Double Cable with Central Leader, 2 Cinches and 2 Tighteners
 - 46-4025** SOF'WIRE Titanium Cinch Seat, 10 each
- 46-4010** CODMAN SOF'WIRE Instrument Set includes:
- 46-4012** SOF'WIRE Torque Driver
 - 46-4013** SOF'WIRE Cable Cutter
 - 46-4014** SOF'WIRE Cinch Pliers
 - 46-4100** CODMAN SOF'WIRE L-Curve Guide
 - 46-4101** CODMAN SOF'WIRE S-Curve Guide
 - 46-4011** SOF'WIRE Cable System Sterilization Tray

CERVICAL FIXATION CABLE, SOF'WIRE



SOF'WIRE® Sterile Products:

Stainless Steel

- 46-4019** SOF'WIRE Stainless Steel Single Cable with Leader, 1 Cinch and 1 Tightener
- 46-4021** SOF'WIRE Stainless Steel Double Cable with Central Leader, 2 Cinches and 2 Tighteners
- 46-4024** SOF'WIRE Stainless Steel Cinch Seat, 10 each

Titanium

- 46-4040** SOF'WIRE Titanium Single Cable with Leader, 1 Cinch and 1 Tightener
 - 46-4043** SOF'WIRE Titanium (10 each of 46-4040)
 - 46-4042** SOF'WIRE Titanium Double Cable with Central Leader, 2 Cinches and 2 Tighteners
 - 46-4025** SOF'WIRE Titanium Cinch Seat, 10 each
-

CERVICAL FIXATION CABLE, SOF'WIRE



46-4012 SOF'WIRE Torque Driver
Designed to be used with the disposable
CODMAN SOF'WIRE Tighteners (46-4018 and
46-3038) if additional torque is required.



46-4013 SOF'WIRE Cable Cutter
Used to cut CODMAN SOF'WIRE Cable.



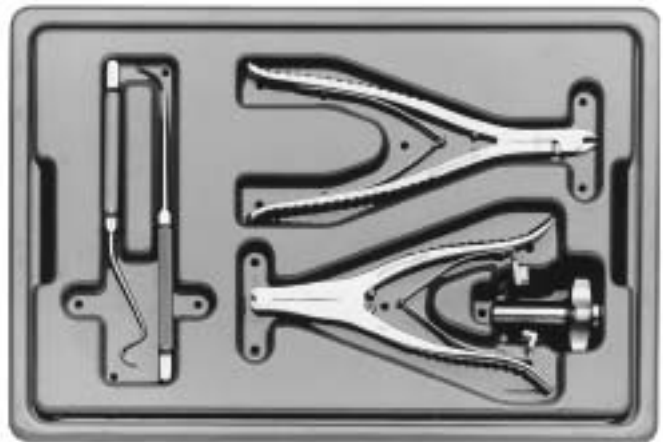
46-4014 SOF'WIRE Cinch Pliers
Designed to crimp the cinch/cable construct
when using CODMAN SOF'WIRE Cable.

CERVICAL FIXATION CABLE, SOF'WIRE

-
- 46-4100** CODMAN SOF'WIRE Guides.
20cm (8") instrument designed to assist the cervical spine surgeon in protective wire passage of C2–C7 vertebrae. Atraumatic end designed to dissect impeding ligamentous tissue. Suture hole for wire fixation.
- 46-4101** 20cm (8") instrument designed to assist the cervical spine surgeon in protective wire passage of C1 vertebrae. Uniquely shaped for C1 wire passage. Atraumatic end designed to dissect impeding ligamentous tissue. Suture hole for wire fixation.
-



-
- 46-4011** CODMAN SOF'WIRE Cable Instrument Tray
For storage/sterilization.
(Instruments not included.)
-



CERVICAL FIXATION ANTERIOR CERVICAL PLATE



46-4111	24mm Anterior Cervical Plate
46-4112	26mm Anterior Cervical Plate
46-4113	28mm Anterior Cervical Plate
46-4114	30mm Anterior Cervical Plate
46-4115	32mm Anterior Cervical Plate
46-4116	34mm Anterior Cervical Plate
46-4117	36mm Anterior Cervical Plate
46-4118	38mm Anterior Cervical Plate
46-4119	40mm Anterior Cervical Plate
46-4120	42mm Anterior Cervical Plate
46-4121	44mm Anterior Cervical Plate
46-4122	46mm Anterior Cervical Plate
46-4123	48mm Anterior Cervical Plate
46-4124	50mm Anterior Cervical Plate
46-4125	52mm Anterior Cervical Plate
46-4126	54mm Anterior Cervical Plate
46-4170	56mm Anterior Cervical Plate
46-4127	58mm Anterior Cervical Plate
46-4171	60mm Anterior Cervical Plate
46-4128	62mm Anterior Cervical Plate
46-4172	64mm Anterior Cervical Plate
46-4129	66mm Anterior Cervical Plate
46-4173	68mm Anterior Cervical Plate
46-4130	70mm Anterior Cervical Plate
46-4174	74mm Anterior Cervical Plate
46-4175	78mm Anterior Cervical Plate
46-4176	82mm Anterior Cervical Plate
46-4177	86mm Anterior Cervical Plate
46-4178	90mm Anterior Cervical Plate
46-4179	94mm Anterior Cervical Plate
46-4180	98mm Anterior Cervical Plate
46-4181	102mm Anterior Cervical Plate
46-4182	106mm Anterior Cervical Plate
46-4184	110mm Anterior Cervical Plate



46-4136	CODMAN Anterior Cervical Plate Contouring Device
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CERVICAL FIXATION ANTERIOR CERVICAL PLATE

- 46-4196** 12mm Standard Cancellous Bone Screw
(1 per package)
- 46-4197** 15mm Standard Cancellous Bone Screw
(1 per package)
- 46-4131** 12mm Standard Cancellous Bone Screw
(4 per package)
- 46-4132** 15mm Standard Cancellous Bone Screw
(4 per package)



- 46-4516** 12mm Self-Tapping Cancellous Bone Screw
(1 per package)
- 46-4517** 15mm Self-Tapping Cancellous Bone Screw
(1 per package)
- 46-4518** 12mm Self-Tapping Cancellous Bone Screw
(4 per package)
- 46-4519** 15mm Self-Tapping Cancellous Bone Screw
(4 per package)



- The self-tapping threads eliminate the tapping step and increase procedure efficiency.
- Two toned color scheme identifies self-tapping feature and screw length.
- Blunt tip minimizes tissue damage.

CODMAN ACP Temporary Fixation Pins. These pins are used during the implantation of Codman Anterior Cervical Plates. The Temporary Fixation Pins function as a temporary plate holding device during drilling, tapping and screw implantation. They may also be used to achieve strategic screw placement and to confirm plate sizing. The pins require no drilling or tapping and are inserted utilizing the CODMAN ACP Screwdriver (46-4141).

- 46-4514** CODMAN ACP Temporary Fixation Pin, Straight
- 46-4515** CODMAN ACP Temporary Fixation Pin, Bulbed
- 46-4533** CODMAN ACP Temporary Fixation Pin Caddy



- 46-4190** CODMAN Anterior Cervical Plate Forceps Plate Holder



CERVICAL FIXATION ANTERIOR CERVICAL PLATE



The CODMAN® ACP Variable Depth System consists of a Drill/Guide Plate Holder, Drill, Tap, Depth Gauge, Screw Length Gauge, Instrumentation Tray and screw sizes from 10mm to 20mm. (See ordering information for product codes and quantities.)

The Variable Depth Instrumentation can be used with all screw lengths including the 12mm and 15mm screws.

The Variable Depth Instrument Tray (46-4164) will accommodate the existing instrument tray (46-4142), therefore providing all instrumentation to be contained in one tray. The Bender may be placed in this tray as well.

The additional screws will be placed in the existing screw container 46-4198 which resides in the plate sterilization tray (46-4195).

46-4163 CODMAN Variable Depth System

Includes:

Instrumentation

- 46-4158** V.D. Drill
- 46-4159** V.D. Tap
- 46-4160** V.D. Drill Guide/Plate Holder
- 46-4161** V.D. Depth Gauge
- 46-4162** V.D. Screw Length Gauge
- 46-4164** V.D. Variable Depth Tray

Screws

- 46-4146** 10mm Cancellous Bone Screw
 - 46-4196** 12mm Cancellous Bone Screw
 - 46-4194** 13mm Cancellous Bone Screw
 - 46-4147** 14mm Cancellous Bone Screw
 - 46-4197** 15mm Cancellous Bone Screw
 - 46-4148** 16mm Cancellous Bone Screw
 - 46-4150** 17mm Cancellous Bone Screw
 - 46-4151** 18mm Cancellous Bone Screw
 - 46-4152** 19mm Cancellous Bone Screw
 - 46-4153** 20mm Cancellous Bone Screw
-

CERVICAL FIXATION ANTERIOR CERVICAL PLATE

46-4165 CODMAN Anterior Cervical Plate
Drill Guide/Plate Holder, Captured Assembly



46-4134 CODMAN Anterior Cervical Plate
Drill Bit (12mm)



46-4135 CODMAN Anterior Cervical Plate
Drill Bit (15mm)



46-4137 CODMAN Anterior Cervical Plate
Bone Tap (12mm)



46-4138 CODMAN Anterior Cervical Plate
Bone Tap (15mm)



46-4139 CODMAN Anterior Cervical Plate
CAM Tightener Assembly

Consists of:
CAM Tightener Shaft
CAM Tightener Handle
Replacement CAM Tightener Shaft (46-4192)



SPINE

CERVICAL FIXATION ANTERIOR CERVICAL PLATE



46-4141 CODMAN Anterior Cervical Plate
Screw Driver



46-4145 CODMAN Anterior Cervical Plate
Drill Guide



46-4166 CODMAN Anterior Cervical Plate
Dual Angle Drill Guide/Plate Holder,
Captured Assembly

CERVICAL FIXATION TI FRAME

CODMAN TI-FRAME is an implantable titanium device used for posterior cervical stabilization which allows for reduction and distraction of the spine without the use of screws or hooks. The TI-FRAME was designed exclusively for use with CODMAN SOF'WIRE™ Titanium Cables (46-4040, 46-4043, 46-4042, 46-4045, 46-4010). TI-FRAMES are available in different configurations: straight (STR) or curved (LC2 or LC4).

46-4060 CODMAN TI-FRAME Kit

Kit includes:

- 46-4075** CODMAN TI-FRAME 4cm STR
- 46-4066** CODMAN TI-FRAME 4cm LC2
- 46-4061** CODMAN TI-FRAME 4cm LC4
- 46-4077** CODMAN TI-FRAME 6cm STR
- 46-4068** CODMAN TI-FRAME 6cm LC2
- 46-4063** CODMAN TI-FRAME 6cm LC4
- 46-4079** CODMAN TI-FRAME 8cm STR
- 46-4070** CODMAN TI-FRAME 8cm LC2
- 46-4065** CODMAN TI-FRAME 8cm LC4
- 46-4072** CODMAN TI-FRAME Sterilizing Case

Additional Ordering Information:

- 46-4040** SOF'WIRE Titanium Single Cable with Leader, 1 Cinch and 1 Tightener
- 46-4043** SOF'WIRE Titanium (10 each of 46-4040)
- 46-4042** SOF'WIRE Titanium Double Cable with Central Leader, 2 Cinches and 2 Tighteners
- 46-4045** SOF'WIRE Titanium Double Cable (10 each of 46-4042)
- 46-4010** SOF'WIRE Complete Instrument Kit



CERVICAL FIXATION

CODMAN ANTERIOR CERVICAL PLATE



The CODMAN Anterior Cervical Plate is designed for immediate internal fixation of the cervical spine following bone grafting procedures.

46-4110 CODMAN Anterior Cervical Plate Kit Includes:

- 46-4111** 24mm Anterior Cervical Plate
- 46-4112** 26mm Anterior Cervical Plate
- 46-4113** 28mm Anterior Cervical Plate
- 46-4114** 30mm Anterior Cervical Plate
- 46-4115** 32mm Anterior Cervical Plate
- 46-4116** 34mm Anterior Cervical Plate
- 46-4117** 36mm Anterior Cervical Plate
- 46-4118** 38mm Anterior Cervical Plate
- 46-4119** 40mm Anterior Cervical Plate
- 46-4120** 42mm Anterior Cervical Plate
- 46-4121** 44mm Anterior Cervical Plate
- 46-4122** 46mm Anterior Cervical Plate
- 46-4123** 48mm Anterior Cervical Plate
- 46-4124** 50mm Anterior Cervical Plate
- 46-4125** 52mm Anterior Cervical Plate
- 46-4126** 54mm Anterior Cervical Plate
- 46-4170** 56mm Anterior Cervical Plate
- 46-4127** 58mm Anterior Cervical Plate
- 46-4171** 60mm Anterior Cervical Plate
- 46-4128** 62mm Anterior Cervical Plate
- 46-4172** 64mm Anterior Cervical Plate
- 46-4129** 66mm Anterior Cervical Plate
- 46-4173** 68mm Anterior Cervical Plate
- 46-4130** 70mm Anterior Cervical Plate
- 46-4174** 74mm Anterior Cervical Plate
- 46-4175** 78mm Anterior Cervical Plate
- 46-4176** 82mm Anterior Cervical Plate
- 46-4177** 86mm Anterior Cervical Plate
- 46-4178** 90mm Anterior Cervical Plate
- 46-4179** 94mm Anterior Cervical Plate
- 46-4180** 98mm Anterior Cervical Plate
- 46-4181** 102mm Anterior Cervical Plate
- 46-4182** 106mm Anterior Cervical Plate
- 46-4184** 110mm Anterior Cervical Plate

CODMAN Anterior Cervical Plate Kit (Continued)

- 46-4196** 12mm Standard Cancellous Bone Screw (1 per package)
- 46-4131** 12mm Standard Cancellous Bone Screw (4 per package)
- 46-4197** 15mm Standard Cancellous Bone Screw (1 per package)
- 46-4132** 15mm Standard Cancellous Bone Screw (4 per package)
- 46-4195** Plate Sterilization Tray
- 46-4198** Standard Screw Sterilization Tray

CODMAN Anterior Cervical Plate Placement Instruments

- 46-4165** Drill Guide/Plate Holder, Captured Assembly
- 46-4134** Drill Bit (12mm)
- 46-4135** Drill Bit (15mm)
- 46-4136** Plate Contouring Device
- 46-4137** Bone Tap (12mm)
- 46-4138** Bone Tap (15mm)
- 46-4139** Cam Tightener Assembly
- 46-4141** Screw Driver
- 46-4145** Drill Guide
- 46-4190** Forceps Plate Holder
- 46-4166** Dual Angle Drill Guide/Plate Holder, Captured Assembly
- 46-4142** Instrument Sterilization Tray

CHISELS



18-1011	CODMAN Spinal Fusion Chisel, straight.
Blade width	$\frac{15}{64}$ " (6mm)
Length	$9\frac{1}{2}$ " (241mm)

	CODMAN Puka (Hole) Chisel
Length	9" (229mm)
Tip width	.4" (10mm)
18-1014	No. 1
18-1015	No. 2



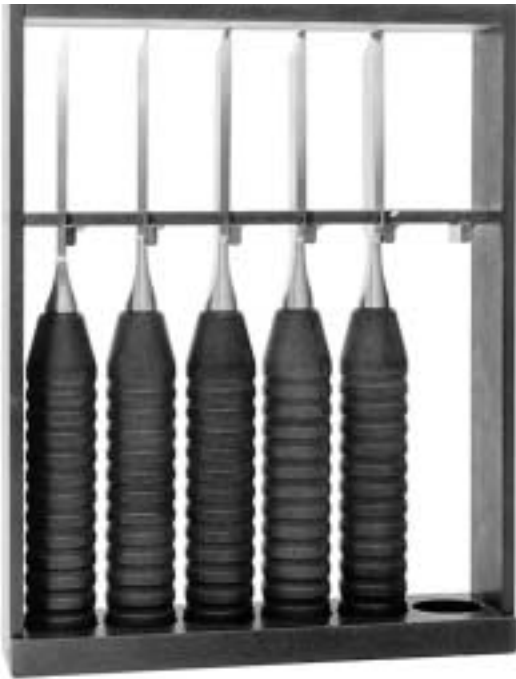
18-1020	CODMAN-HARMON Chisel
Blade width	$\frac{15}{64}$ " (6mm)
Length	$9\frac{3}{4}$ " (248mm)

18-1010	D'ERRICO Lamina Chisel
Width	$\frac{1}{2}$ " (13mm)
Length	$7\frac{1}{2}$ " (191mm)



SPINE

CHISELS



KARLIN™ MAGNUM Chisels,
Black-handles, designed for use with a surgical
mallet.

Length 10.75" (273mm)

Handle diameter 1.25" (32mm)

Straight

46-3100 Set of six with case

Includes:

46-3101 6mm

46-3102 10mm

46-3103 15mm

46-3104 20mm

46-3105 25mm

46-3106 30mm

46-3107 Magnum instrument case for 6

Curved

46-3110 Set of six with case

Includes:

46-3111 6mm

46-3112 10mm

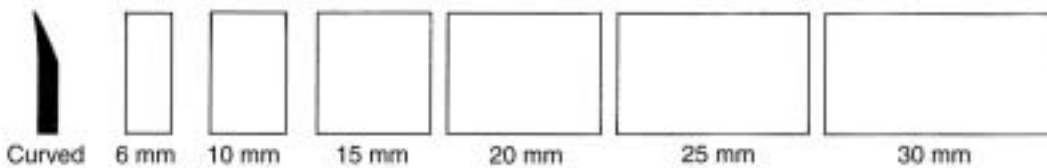
46-3113 15mm

46-3114 20mm

46-3115 25mm

46-3116 30mm

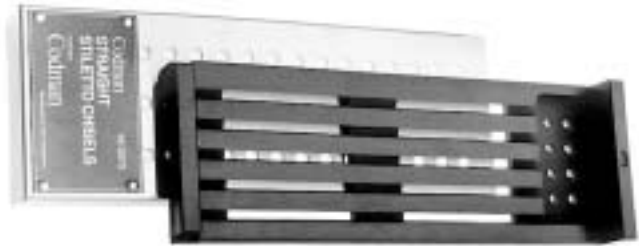
46-3107 Magnum instrument case for 6



CHISELS

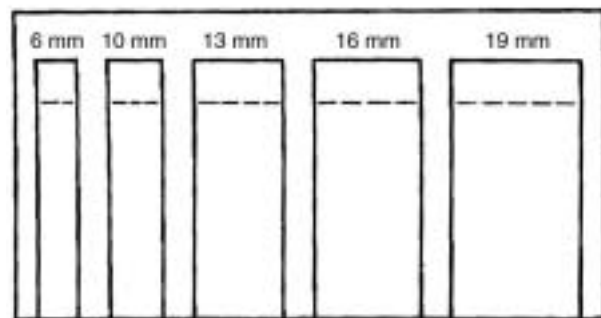
46-3070 Straight Stiletto Chisel Set with Case
 Length 8½" (216mm)
 Set Includes:

- | | Tip Size |
|--|-----------|
| 46-3071 Chisel Straight | ¼" (6mm) |
| 46-3072 Chisel Straight | ⅜" (10mm) |
| 46-3073 Chisel Straight | ½" (13mm) |
| 46-3074 Chisel Straight | ⅝" (16mm) |
| 46-3075 Chisel Straight | ¾" (19mm) |
| 46-3076 Case for Straight Stiletto Chisel | |



46-3080 Curved Stiletto Chisel Set with Case
 Length 8½" (216mm)
 The Set Includes:

- | | Tip Size |
|--|-----------|
| 46-3081 Chisel Curved | ¼" (6mm) |
| 46-3082 Chisel Curved | ⅜" (10mm) |
| 46-3083 Chisel Curved | ½" (13mm) |
| 46-3084 Chisel Curved | ⅝" (16mm) |
| 46-3085 Chisel Curved | ¾" (19mm) |
| 46-3086 Case for Curved Stiletto Chisel | |



SPINE

CODMAN SPINAL FUSION ANTERIOR CERVICAL FUSION KIT



80-1004 The CODMAN Anterior Fusion Kit, for removal of ruptured cervical disc lesions and osteophytes by an anterior surgical approach.

CODMAN ANTERIOR CERVICAL FUSION KIT, with Case

80-1004	CODMAN Anterior Fusion Kit, with case. CODMAN Anterior Fusion Kit includes:
21-1001	CODMAN Instrument Case
11-1002	CODMAN Cross Bar Handle (Two Each) CODMAN Dowel Cutter
56-1005	Diameter 12mm
56-1006	Diameter 14mm
56-1007	Diameter 16mm
56-1008	Diameter 18mm CODMAN Dowel Cutter Center Pins
47-1010	Diameter 12mm
47-1011	Diameter 14mm
47-1012	Diameter 16mm
47-1013	Diameter 18mm
11-1019	CODMAN Dowel Cutter Shaft
80-1001	CODMAN Dowel Ejector
11-1011	CODMAN Dowel Handle and Ejector CODMAN Drill Tips
26-1265	10mm
26-1266	12mm
26-1267	14mm
26-1268	16mm CODMAN Cervical Drill Guards
12-1005	Small
12-1006	Large
12-1007	CODMAN Drill Guard Cap CODMAN Drill Shaft
28-1001	Small
28-1002	Large
65-1064	CODMAN Osteophyte Periosteal Elevator
39-1012	CODMAN Depth Gauge CODMAN Guard Guide, double ended.
14-1043	Small
14-1044	Large
61-1004	CODMAN Vertebra Spreader
80-1012	CODMAN Spanner Wrench

CODMAN ANTERIOR CERVICAL FUSION KIT, Accessories

26-1041	HUDSON Brace Spinal Fusion Curettes Straight
23-1041	No. 000
23-1042	No. 00
23-1043	No. 0 Angled
23-1051	No. 000
23-1052	No. 00
23-1053	No. 0 CODMAN Periosteal Elevators
65-1056	No. 1
65-1057	No. 2
65-1058	No. 3
65-1121	Curved
30-1203	D'ERRICO Bayonet Dressing Forceps
88-1005	CODMAN Cervical Hammer,small
11-5535	Knife Handle, No.3L
38-1038	CODMAN Cautery Hook
18-1013	CODMAN Cervical Osteotome, curved CODMAN Cervical Punches, 40°
51-1087	Cup size 3mm
51-1008	Cup size 5mm
50-1180	ADSON Cerebellar Retractor
50-1050	CODMAN Blade Retractor, 18mm
50-1052	CODMAN Blade Retractor, 20mm
50-1053	CODMAN Blade Retractor, 23mm
50-1380	CODMAN Cervical Retractor,large, with set of seven sharp blades
50-1390	CODMAN Cervical Retractor,large, with set of seven blunt blades
50-1022	CODMAN Vein Retractor
50-1224	CODMAN Skin Retractor, 1 x 1 prong
50-4071	U.S. Army Retractor, set of two CODMAN IVD Rongeurs
53-1171	Cup size 4mm x 8mm
53-1220	Cup size 6mm x 10mm
54-1015	MALIS Nuerosurgical Scissors

CODMAN SPINAL FUSION ANTERIOR CERVICAL FUSION KIT

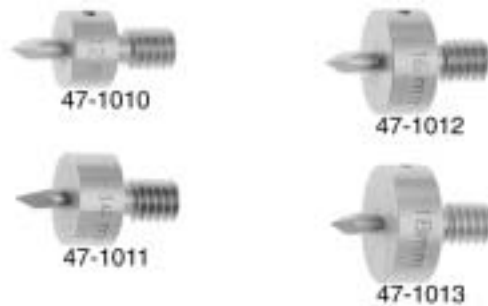
11-1002 CODMAN Cross Bar Handle
Inside diameter $\frac{7}{8}$ " (22mm)



CODMAN Dowel Cutters
Diameter
56-1005 12mm (use 26-1265 drill size.)
56-1006 14mm (use 26-1266 drill size.)
56-1007 16mm (use 26-1267 drill size.)
56-1008 18mm (use 26-1268 drill size.)



CODMAN Dowel Cutter Center Pins
Pin diameter
Diameter
47-1010 12mm
47-1011 14mm
47-1012 16mm
47-1013 18mm



11-1019 CODMAN Dowel Cutter Shaft
Length $6\frac{1}{2}$ " (165mm)



80-1001 CODMAN Dowel Ejector
Length $4\frac{1}{2}$ " (114mm)



SPINE

CODMAN SPINAL FUSION ANTERIOR CERVICAL FUSION KIT



11-1011	CODMAN Dowel Handle and Impactor Set. set includes:		
	Dowel Handle and Impactor		
	Length	7"	(178mm)
	Dowel Holder	14mm	
	Dowel Holder	16mm	
	Dowel Holder	18mm	
	Dowel Holder	20mm	



26-1265



26-1266



26-1267



26-1268

	CODMAN Cervical Drill tips		
	Diameter		
26-1265	10mm		
26-1266	12mm		
26-1267	14mm		
26-1268	16mm		



	CODMAN Cervical Drill Guards, with bone relief, and four pins.		
12-1005	Length	4 1/16"	(103mm)
	Small Diameter	13mm	
12-1006	Large Diameter	16mm	



12-1007	CODMAN Drill Guard Cap		
	Length	1 1/4"	(32mm)
	Diameter	1"	(25mm)

CODMAN SPINAL FUSION ANTERIOR CERVICAL FUSION KIT

- 28-1001** CODMAN Drill Shafts, with depth stop.
Length 5 $\frac{9}{16}$ " (141mm)
Small (to hold 26-1265 or 26-1266)
Diameter 13mm
- 28-1002** Large (to hold 26-1267 or 26-1268)
Diameter 16mm



- 65-1064** CODMAN Osteophyte Periosteal Elevator
Length 8" (203mm)

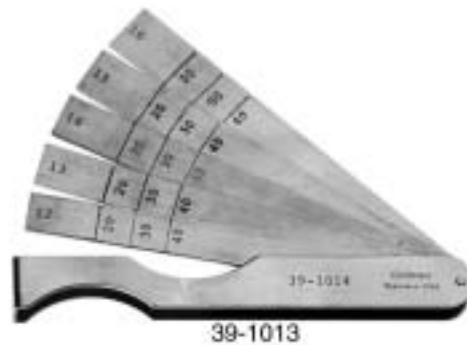


- 39-1012** CODMAN Depth Gauge
Length 8 $\frac{3}{8}$ " (213mm)
- 39-1013** CODMAN Spanner Gauge, small.
Length 5 $\frac{1}{8}$ " (130mm)



- 39-1013** CODMAN Spanner Gauge, small.
Length 5 $\frac{1}{8}$ " (130mm)
Width 7mm
8mm
9mm
10mm
11mm

- 39-1014** CODMAN Spanner Gauge, large.
Length 5 $\frac{1}{8}$ " (130mm)
Width 12mm
13mm
14mm
15mm
16mm



- CODMAN Guard Guides, double ended.
- 14-1043** Length 7 $\frac{1}{2}$ " (190mm)
Diameter $\frac{3}{8}$ " (9.5mm)
- 14-1044** Diameter $\frac{1}{2}$ " (13mm)



CODMAN SPINAL FUSION ANTERIOR CERVICAL FUSION KIT



-
- | | |
|----------------|--|
| 61-1004 | CODMAN Vertebra Spreader #1, with ratchet. |
| Total length | 5" (127mm) |
| Total opening | 3/4" (19mm) |
| 61-1005 | CODMAN Vertebra Spreader #2, with ratchet. |
| Total length | 3" (76mm) |
| Total opening | 1 1/2" (38mm) |
-



-
- | | |
|----------------|-----------------------|
| 80-1012 | CODMAN Spanner Wrench |
|----------------|-----------------------|
-

CODMAN SPINAL FUSION POSTERIOR LUMBAR INTERBODY FUSION KIT (PLIF)

The CODMAN PLIF Instruments represent a coordinated instrument approach for surgical procedures treating lesions of the lumbar intervertebral discs.

- I. Lumbar Disc Lesions
- II. Spondylolisthesis
- III. Spinal Stenosis

CODMAN Posterior Lumbar Interbody Fusion (PLIF) Instruments

- 18-1020** CODMAN Chisel
- 18-1014** CODMAN Puka (Hole) Chisel No. 1
- 18-1015** CODMAN Puka (Hole) Chisel No. 2
- 11-1040** CODMAN Puka Chisel Handle
- 39-1012** CODMAN Depth Gauge
- 39-1014** CODMAN Spanner Gauge
- 88-1006** CODMAN Hammer, large
- 51-1010** CODMAN Dowel Impactor, round
- 51-1011** CODMAN Square Punch, stepped down
- 51-1012** CODMAN Bone Punch
- 50-1249** CODMAN Lumbar Lamina Retractor Body
- 50-1342** CODMAN Lumbar Lamina Blades, five prong, short, 2 ea.
- 50-1343** CODMAN Lumbar Lamina Blades, five prong, long, 2 ea.
- 50-1105** CODMAN Dural Retractor, self-retaining with three malleable blades.
- 61-1026** CODMAN Lumbar Interbody Spreader #2
- 61-1025** CODMAN Lumbar Lamina Spreader #1



- 18-1020** CODMAN-HARMON Chisel
- Blade width $1\frac{5}{64}$ " (6mm)
- Length $9\frac{3}{4}$ " (248mm)

- CODMAN Puka (Hole) Chisel
- Length 9" (229mm)
- Tip width .4" (10mm)
- 18-1014** No. 1
- 18-1015** No. 2



SPINE

CODMAN SPINAL FUSION POSTERIOR LUMBAR INTERBODY FUSION KIT (PLIF)

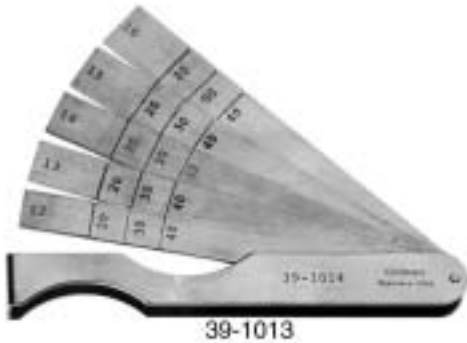


11-1040 CODMAN Puka Chisel Handle
Length 4" (102mm)



39-1012 CODMAN Depth Gauge
Length 8³/₈" (213mm)

39-1013 CODMAN Spanner Gauge, small.
Length 5¹/₈" (130mm)



39-1013 CODMAN Spanner Gauge, small.
Length 5¹/₈" (130mm)
Width (7mm)
(8mm)
(9mm)
(10mm)
(11mm)

39-1014 CODMAN Spanner Gauge, large.
Length 5¹/₈" (130mm)
Width (12mm)
(13mm)
(14mm)
(15mm)
(16mm)

CODMAN SPINAL FUSION POSTERIOR LUMBAR INTERBODY FUSION KIT (PLIF)



88-1005	CODMAN Hammer		
	Small face diameter	$\frac{3}{4}$ "	(19mm)
	Ball peen		
	Face diameter	$1\frac{1}{16}$ "	(11mm)
	Weight	8 oz.	(227 gm)
	Length	$7\frac{1}{2}$ "	(191mm)
88-1006	CODMAN Hammer		
	Large face diameter	1"	(25.4mm)
	Ball peen		
	Face diameter	$\frac{7}{8}$ "	(22mm)
	Weight	13 oz.	(368 gm)
	Length	9"	(229mm)



51-1010	CODMAN Dowel Impactor, round.		
	Diameter		8mm
	Length	9"	(229mm)



51-1011	CODMAN Square Punch, stepped down.		
	Tip width		13mm
	Length	9"	(229mm)



51-1012	CODMAN Bone Punch		
	Length	$9\frac{3}{8}$ "	(238mm)

SPINE

CODMAN SPINAL FUSION POSTERIOR LUMBAR INTERBODY FUSION KIT (PLIF)



50-1105	CODMAN Dural Retractor, self-retaining with three malleable blades.		
	Blade length	4"	(102mm)
	Length	8¼"	(210mm)
	Blade width	11mm	
	Blade width	13mm	
	Blade width	15mm	



	CODMAN Retractor Blades, sharp, five prong. Blade width tapers from 2" (51mm) to 1" (25mm).		
50-1342	Prong depth	2"	(51mm)
50-1343	Prong depth	2½"	(64mm)



50-1249	CODMAN Lumbar Retractor Body, self-retaining. Use 5-1342, 50-1343 blades with 50-1249 Lumbar Retractor.		
	Length	9"	(229mm)
	Total opening	5"	(127mm)

CODMAN SPINAL FUSION POSTERIOR LUMBAR INTERBODY FUSION KIT (PLIF)

61-1025	Codman Lumbar Lamina Spreader #1
Arm length	3½" (89mm)
Total opening	1½" (38mm)
61-1026	Codman Lumbar Lamina Spreader #2
Arm length	4¼" (108mm)
Total opening	1½" (28mm)



80-1006 The CODMAN PLIF II Instrument Kit is used in conjunction with the existing CODMAN 80-1005. Together they provide a coordinated approach to posterior lumbar interbody fusion surgery.

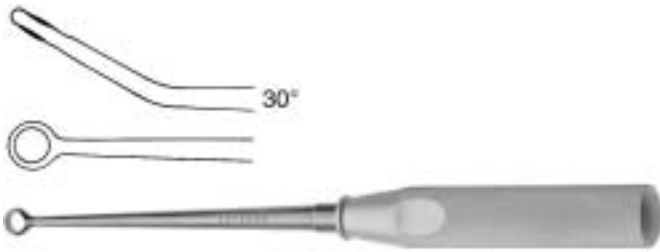
Kit includes:

21-1006	CODMAN PLIF II Instrument Case
23-1020	CODMAN CONE Ring Curettes
23-1020	7mm, angled 50°
	CODMAN Elevators
65-1056	4mm, sharp
65-1057	6mm, sharp
65-1058	8mm, sharp
65-1059	12mm, sharp
65-1121	¾", sharp periosteal
	CODMAN Osteotomes
46-1019	10mm, 9½", straight
46-1020	6mm, 7½", curved
46-1021	6mm, 7½", straight
46-1022	8mm, 9½", straight
46-1023	8mm, 9½", full curved
46-1024	6mm, 9½", slightly curved
46-1025	6mm, 9½", straight
46-1062	6mm, 9½", curved
50-1362	CODMAN ADSON Retractor
50-1209	CODMAN Flexible Nerve Root Retractor



SPINE

CODMAN SPINAL FUSION POSTERIOR LUMBAR INTERBODY FUSION KIT (PLIF)



CODMAN-CONE Ring Curettes			
23-1020	Angled 5°		
	Ring diameter (I.D.)	5/16"	(8mm)
	Total length	9"	(229mm)
23-1021	Angled 30°		
	Ring diameter (I.D.)	5/16"	(8mm)
	Total length	9"	(229mm)



CODMAN Periosteal Elevators, sharp.			
	Length	8"	(203mm)
	Tip width		
65-1056		3/16"	(5mm)
65-1057		1/4"	(6.4mm)
65-1058		5/16"	(8mm)
65-1059		15/32"	(12mm)



65-1121	CODMAN Periosteal Elevator, sharp.		
	Blade width	3/16"	(5mm)
	Length	8"	(203mm)

CODMAN SPINAL FUSION POSTERIOR LUMBAR INTERBODY FUSION KIT (PLIF)



CODMAN Spinal Fusion Osteotomes

		Blade Width	Length	
46-1020	Curved	6mm	7½"	(190mm)
46-1021	Straight	6mm	7½"	(190mm)
46-1022	Straight	8mm	9½"	(241mm)
46-1023	Full curved	8mm	9½"	(241mm)
46-1024	Slightly curved	6mm	9½"	(241mm)
46-1025	Straight	6mm	9½"	(241mm)
46-1026	Curved	6mm	9½"	(241mm)
46-1019	Straight	10mm	9½"	(241mm)

50-1362	CODMAN ADSON Retractor			
	Length	9½"		(240mm)
	Total opening	5"		(120mm)
	Shank angle 65°			
	3 x 3 sharp prongs			



50-1209	CODMAN Flexible Nerve Root Retractor			
	Length	8½"		(210mm)
	Blade length	1"		(26mm)
	Blade width	5/16"		(8mm)



CODMAN INSTRUMENTS



18-1013	CODMAN Osteotome		
	Blade width		4mm
	Length	7"	(178mm)



18-1011	CODMAN Spinal Fusion Chisel, straight.		
	Blade width	$\frac{15}{64}$ "	(6mm)
	Length	$9\frac{1}{2}$ "	(241mm)



39-1015	CODMAN LW Gauge		
	Designed to be used anywhere on the spine to measure the length and width of a space.		



38-1038	CODMAN Dural Hook, sharp.		
	Length	$6\frac{1}{2}$ "	(165mm)
	Tip Diameter		(2mm)



28-1000	CODMAN Bone Graft Impactor, double ended.		
	End diameter	$\frac{7}{16}$ "	(11mm)
	End diameter	$\frac{9}{16}$ "	(14mm)
	Length	$8\frac{3}{4}$ "	(222mm)



28-1003	CODMAN Bone Graft Impactor and Holder		
	Length	$8\frac{3}{4}$ "	(222mm)



88-1005	CODMAN Hammer		
	Small face diameter	3/4" (19mm)	
	Ball peen		
	Face diameter	1 1/16" (11mm)	
	Weight	8 oz. (227 gm)	
	Length	7 1/2" (191mm)	
88-1006	CODMAN Hammer		
	Large face diameter	1" (25.4mm)	
	Ball peen		
	Face diameter	7/8" (22mm)	
	Weight	13 oz. (368 gm)	
	Length	9" (229mm)	

	CODMAN Blade Retractors		
	Blade length	3" (76mm)	
	Handle length	4 1/2" (114mm)	
50-1050	Blade width	18mm	
50-1052	Blade width	20mm	
50-1053	Blade width	23mm	



CODMAN INSTRUMENTS



-
- 50-1380** CODMAN Cervical Retractor Set, large, self-retaining, with 7 pairs of sharp blades.
Length 10" (254mm)
Total opening 4½" (114mm)
Includes the following:
- 50-1346** CODMAN Cervical Retractor Body, large.
CODMAN Retractor Blades, sharp, four prongs.
Prong Depth
Prong width 20mm
- 50-1381** 25mm
50-1382 30mm
50-1383 35mm
50-1384 40mm
50-1385 45mm
50-1386 50mm
50-1387 55mm
-

-
- 50-1388** CODMAN Single Tooth Retractor Blade
35mm
50-1389 45mm
Used with 50-1830 CODMAN Cervical Retractor, Large or 50-1390 Codman Cervical Retractor, Small.
-



-
- 50-1390** CODMAN Cervical Retractor Set, small, self-retaining, with 7 pairs of blunt blades.
Length 6" (152mm)
Total opening 3¾" (95mm)
Includes the following:
- 50-1356** CODMAN Cervical Retractor Body, small.
CODMAN Retractor Blades, blunt.
Blade depth
- 50-1391** 25mm
50-1392 30mm
50-1393 35mm
50-1394 40mm
50-1395 45mm
50-1396 50mm
50-1397 55mm
-



CODMAN INSTRUMENTS



50-1022	CODMAN-CUSHING Vein Retractor		
	Blade width		9.5mm
	Blade depth		6.4mm
	Length	7 ³ / ₄ "	(197mm)



50-1223



50-1224

	CODMAN Tissue Retractors		
	Length	5 ¹ / ₄ "	(133mm)
	Total opening	2 ¹ / ₂ "	(64mm)
50-1223	3x3 blunt prongs		
	Prong width	1 ¹ / ₂ "	(13mm)
	Prong depth	5 ⁵ / ₈ "	(16mm)
50-1224	1x1 blunt prongs		
	Prong depth	1 ¹ / ₂ "	(13mm)

51-1085 51-1086 51-1087 51-1088



	CODMAN Laminectomy Rongeurs, 40° angle.		
	Shaft length	6 ⁷ / ₈	(175mm)
51-1085	Bite		3mm
51-1086	Bite		5mm
	Shaft length	8	(203mm)
51-1087	Bite		3mm
51-1088	Bite		5mm

CODMAN INSTRUMENTS



CODMAN Intervertebral Disc Rongeurs		
Cup		6x10mm (152mm)
Shaft length	6"	
53-1221	Straight	
53-1222	Curved up	
53-1223	Curved down	



CODMAN Intervertebral Disc Rongeurs		
Shaft length	7"	(178mm)
53-1171	Cup 4x8mm	
53-1220	Cup 6x10mm	
53-1225	Cup 6x12mm	

61-1004	CODMAN Vertebra Spreader #1, with ratchet.
Total length	5" (127mm)
Total opening	3/4" (19mm)
61-1005	CODMAN Vertebra Spreader #2, with ratchet.
Total length	3" (76mm)
Total opening	1 1/2" (38mm)



61-1004



61-1005

CURETTES



Full Size



COBB Spinal Curettes		
Length	Tip size	(279mm)
23-2570	No. 000	3.25mm
23-2571	No. 00	4.00mm
23-2572	No. 0	5.00mm
23-2573	No. 1	6.00mm
23-2574	No. 2	7.50mm
23-2575	No. 3	9.00mm
23-2576	No. 4	11.50mm
23-2577	No. 5	13.00mm
23-2578	No. 6	15.50mm



CONE Ring Curettes		
Length	Tip size	(229mm)
23-1013	Straight No. 1	Ring diameter (I.D.) 5/16" (8mm)
23-1014	Straight No. 2	Ring diameter (I.D.) 1/4" (6mm)
23-1015	Straight No. 3	Ring diameter (I.D.) 1/8" (3mm)



CONE Ring Curettes, Angular 35°		
Length	Tip size	(229mm)
23-1016	No. 1	Ring diameter (I.D.) 5/16" (8mm)
23-1017	No. 2	Ring diameter (I.D.) 1/4" (6mm)
23-1018	No. 3	Ring diameter (I.D.) 1/8" (3mm)



EPSTEIN Curettes		
Length	Tip size	(203mm)
23-1130	No. 000	2.0mm
23-1131	No. 00	2.5mm
23-1132	No. 0	3.0mm

CURETTES

KARLIN Cervical Microdissection Instruments
Offset, blade handles, tip configuration marked
on handle

Length 8½" (21cm)

46-3150 Set of 24 instruments with 2 cases.

Includes:

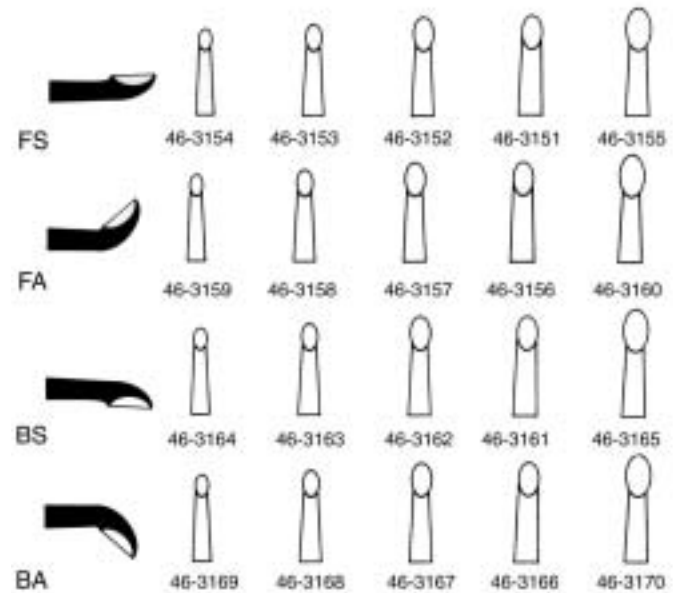
- 46-3151** Curette, Forward Straight, 0
- 46-3152** Curette, Forward Straight, 00
- 46-3153** Curette, Forward Straight, 000
- 46-3154** Curette, Forward Straight, 0000
- 46-3155** Curette, Forward Straight, Cortical Bone Cutter
- 46-3156** Curette, Forward Angle, 0
- 46-3157** Curette, Forward Angle, 00
- 46-3158** Curette, Forward Angle, 000
- 46-3159** Curette, Forward Angle, 0000
- 46-3160** Curette, Forward Angle, Cortical Bone Cutter
- 46-3161** Curette, Backward Straight, 0
- 46-3162** Curette, Backward Straight, 00
- 46-3163** Curette, Backward Straight, 000
- 46-3164** Curette, Backward Straight, 0000
- 46-3165** Curette, Backward Straight, Cortical Bone Cutter
- 46-3166** Curette, Backward Angle, 0
- 46-3167** Curette, Backward Angle, 00
- 46-3168** Curette, Backward Angle, 000
- 46-3169** Curette, Backward Angle, 0000
- 46-3170** Curette, Backward Angle, Cortical Bone Cutter
- 46-3171** Micro Nerve Hook
- 46-3172** Ultra Micro Nerve Hook
- 46-3174** Knife Handle
- 46-3173** Cervical Bone Waxer
- 46-3175** Storage/Sterilization Case for 12 instruments
- 46-3177** KARLIN Micro Knife Blade, 2.0mm
- 46-3178** KARLIN Ultra Knife Blade, 1.5mm

KARLIN Ultra Cervical Microdissection
Instruments

Length 8½" (21cm)

46-3180 Set of 4 curettes with case for 4 instruments

46-3181 Storage/Sterilizing Case for 4 instruments



SPINE

CURETTES



KARLIN Lumbar Microdiscectomy Instruments offset, black handles, tip configuration marked on handle.

Length 9½" (24.13cm)

46-3120 Set of 24 instruments with 2 cases

Includes:

- 46-3121** Curette, forward straight, 0
- 46-3122** Curette, forward straight, 1
- 46-3123** Curette, forward straight, 2
- 46-3124** Curette, forward angle, 0
- 46-3125** Curette, forward angle, 1
- 46-3126** Curette, forward angle, 2
- 46-3127** Curette, forward down, 0
- 46-3128** Curette, forward down, 1
- 46-3129** Curette, forward down, 2
- 46-3130** Curette, backward straight, 0
- 46-3131** Curette, backward straight, 1
- 46-3132** Curette, backward straight, 2
- 46-3133** Curette, backward angle, 0
- 46-3134** Curette, backward angle, 1
- 46-3135** Curette, backward angle, 2
- 46-3136** Curette, backward down, 0
- 46-3137** Curette, backward down, 1
- 46-3138** Curette, backward down, 2
- 46-3139** Penfield Dissector #1
- 46-3140** Penfield Dissector #2
- 46-3141** Nerve Hook
- 46-3142** Penfield Dissector #4
- 46-3143** Bone Waxer
- 46-3144** Spine Probe
- 46-3145** Storage/Sterilizing Case for 12 instruments



BS 2



BA 2



BD 2



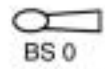
BS 1



BA 1



BD 1



BS 0



BA 0



BD 0

Backward
Straight (BS)

Backward
Angle (BA)

Backward
Down (BD)



FS 2



FA 2



FD 2



FS 1



FA 1



FD 1



FS 0



FA 0



FD 0

Forward
Straight (FS)

Forward
Angle (FA)

Forward
Down (FD)

CURETTES

- 46-2625** KARLIN XL Cervical Microdiscectomy Kit
(Set of 24 Instruments with 2 Cases)
The KARLIN Extra Long Cervical Microdiscectomy Instruments were developed to support the extra length required when working under a microscope. They optimize visualization through their bayonet design and satin black handles
46-3150)
Instrument length 9.5" (24cm)
Working distance 4.1" (10.4cm)
Handle width 0.6" (1.5cm)
Includes the following:
- 46-2626** XL Cervical Curette, Forward Straight, 0
46-2627 XL Cervical Curette, Forward Straight, 00
46-2628 XL Cervical Curette, Forward Straight, 000
46-2629 XL Cervical Curette, Forward Straight, 0000
46-2630 XL Cervical Curette, Forward Straight, Cortical Bone Cutter
46-2631 XL Cervical Curette, Forward Angle, 0
46-2632 XL Cervical Curette, Forward Angle, 00
46-2633 XL Cervical Curette, Forward Angle, 000
46-2634 XL Cervical Curette, Forward Angle, 0000
46-2635 XL Cervical Curette, Forward Angle, Cortical Bone Cutter
46-2636 XL Cervical Curette, Backward Straight, 0
46-2637 XL Cervical Curette, Backward Straight, 00
46-2638 XL Cervical Curette, Backward Straight, 000
46-2639 XL Cervical Curette, Backward Straight, 0000
46-2640 XL Cervical Curette, Backward Straight, Cortical Bone Cutter
46-2641 XL Cervical Curette, Backward Angle, 0
46-2642 XL Cervical Curette, Backward Angle, 00
46-2643 XL Cervical Curette, Backward Angle, 000
46-2644 XL Cervical Curette, Backward Angle, 0000
46-2645 XL Cervical Curette, Backward Angle, Cortical Bone Cutter
46-2646 XL Cervical Micro Nerve Hook
46-2647 XL Cervical Ultra Micro Nerve Hook
46-2648 XL Cervical Bone Waxer
46-3174 KARLIN Micro-Knife Handle
46-3145 Storage/Sterilizing Case for 12 Instruments
(2 provided with Kit)



SPINE

CURETTES



46-3410 PG MAGNUM Cup Curettes
Large capacity cup sizes permit rapid tissue removal:

Set of 12 Cup Curettes with Case includes:

- 46-3411** Cup Curette, Forward, Str. 7mm
- 46-3412** Cup Curette, Forward, Str. 9mm
- 46-3413** Cup Curette, Forward, Str. 11mm
- 46-3414** Cup Curette, Forward, Str. 13mm
- 46-3415** Cup Curette, Forward, Str. 15mm
- 46-3416** Cup Curette, Forward, Str. 17mm
- 46-3417** Cup Curette, Forward, Str. 19mm
- 46-3418** Cup Curette, Forward, Ang. 7mm
- 46-3419** Cup Curette, Forward, Ang. 9mm
- 46-3420** Cup Curette, Forward, Ang. 11mm
- 46-3421** Cup Curette, Forward, Down Pushing 7mm
- 46-3422** Cup Curette, Forward, Down Pushing 9mm

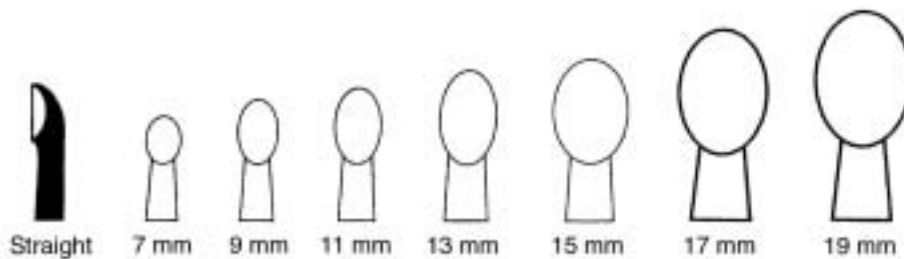
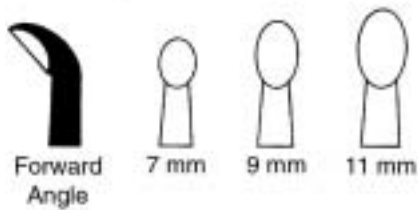
Total length	12.6"	(32cm)
Handle length	7.8"	(20cm)
Handle diameter	1.12"	(3cm)
Working distance	4.7"	(12cm)

CURETTES

KARLIN XL MAGNUM Cup Curettes
Extra Long (XL) curettes, black handles,
lightweight

Length 13¼" (33.7cm)
Handle length 8½" (21cm)
Handle diameter 1¼" (32cm)

- 46-3225** XL MAGNUM Cup curettes with case
Includes:
- 46-3226** Curette forward straight (7mm)
 - 46-3227** Curette forward straight (9mm)
 - 46-3228** Curette forward straight (11mm)
 - 46-3229** Curette forward straight (13mm)
 - 46-3230** Curette forward straight (15mm)
 - 46-3236** Curette forward, straight (17mm)
 - 46-3237** Curette forward, straight (19mm)
 - 46-3231** Curette forward angle (7mm)
 - 46-3232** Curette forward angle (9mm)
 - 46-3233** Curette forward angle (11mm)
 - 46-3234** Curette down pushing (7mm)
 - 46-3235** Curette down pushing (9mm)
 - 46-3222** Storage/sterilizing case for 12 XL MAGNUM instruments



SPINE

CURETTES



46-3400 PG MAGNUM Ring Curettes
Unique, broad-neck fulcrum provides atraumatic leverage on opposing vertebrae end plates. Dual-coned, precision sharpened rings facilitate rapid, efficient bone sculpting and removal. Each instrument engraved with depth indicator to minimize potential for deep penetration.

Total length 12.6" (32cm)

Handle length 7.8" (20cm)

Handle diameter 1.12" (3cm)

Working distance 4.7" (12cm)

Set of 6 Ring Curettes with Case, includes:

46-3401 Ring Curette, Str. 6mm

46-3402 Ring Curette, Str. 8mm

46-3403 Ring Curette, Str. 10mm

46-3404 Ring Curette, Ang. 6mm

46-3405 Ring Curette, Ang. 8mm

46-3406 Ring Curette, Ang. 10mm

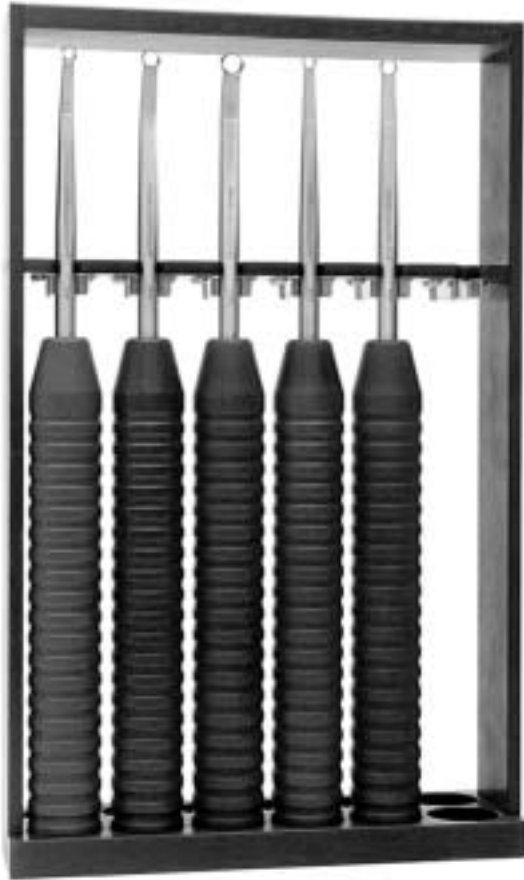
46-3407 PG MAGNUM Sterilizing Case

CURETTES

- 47-5010 MICROSECT™ Curette Kit
(Includes 12 Curettes & Tray)
- 47-5011 #1 Forward Angle Curette, 10"
- 47-5012 #1 Backward Angle Curette, 10"
- 47-5013 #2 Forward Angle Curette, 10"
- 47-5014 #2 Backward Angle Curette, 10"
- 47-5015 #3 Forward Angle Curette, 10"
- 47-5016 #3 Backward Angle Curette, 10"
- 47-5017 #4 Forward Angle Curette, 10"
- 47-5018 #4 Backward Angle Curette, 10"
- 47-5019 #5 Forward Angle Curette, 10"
- 47-5020 #5 Backward Angle Curette, 10"
- 47-5021 3mm Straight Dissector, 10"
- 47-5022 5mm Straight Dissector, 10"
- 47-5023 MICROSECT Curette Tray



CURETTES



KARLIN™ XL MAGNUM Ring Curettes
Extra Long (XL) curettes, black handles,
lightweight

Length 13¼" (33.7cm)

Handle length 8½" (21cm)

Handle diameter 1¼" (32cm)

46-3215 Set of six with case

Includes:

46-3216 6mm Ring, Straight

46-3217 8mm Ring, Straight

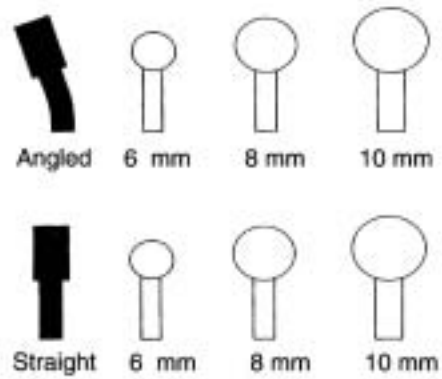
46-3218 10mm Ring, Straight

46-3219 6mm Ring, Angled

46-3220 8mm Ring, Angled

46-3221 10mm Ring, Angled

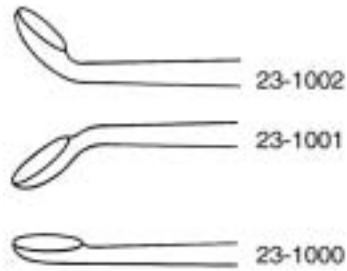
46-3222 Storage/Sterilizing Case for 12
XL MAGNUM Instruments



CURETTES

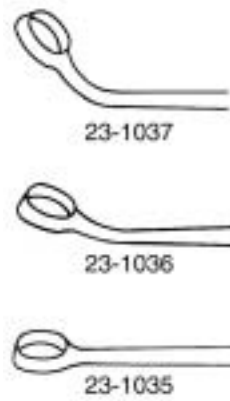
SCOVILLE Ruptured Disc Curettes
 Length 10" (254mm)
 Cup Size 4x10mm

- 23-1000** Straight Cup
- 23-1001** Flared laterally Cup
- 23-1002** Angular Cup



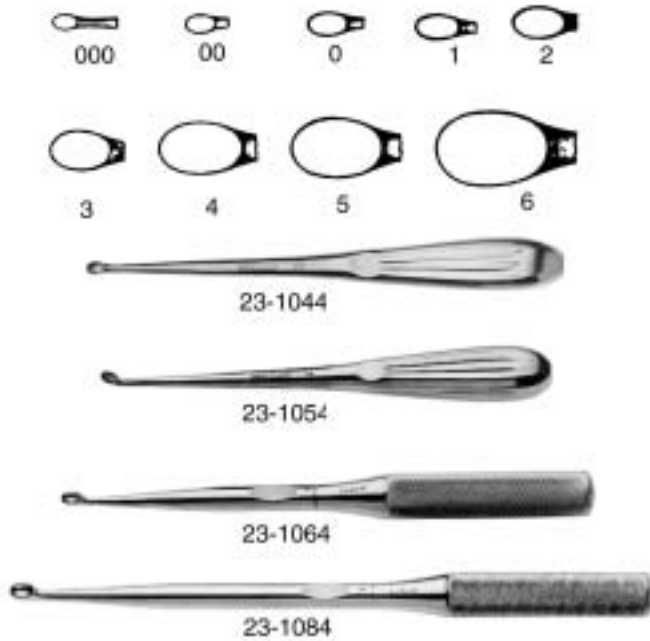
SEMMES Spinal Fusion Curettes
 Length 9" (229mm)
 Ring Size 4x7mm

- 23-1035** Straight
- 23-1036** Slightly curved
- 23-1037** Full curved



SPINE

CURETTES



	SPINAL Fusion Curettes, straight.	
	Length	8" (203mm)
23-1041	No. 000	
23-1042	No. 00	
23-1043	No. 0	
23-1044	No. 1	
23-1045	No. 2	
23-1046	No. 3	
23-1047	No. 4	
23-1048	No. 5	
23-1049	No. 6	
	SPINAL Fusion Curettes, angular.	
	Length	8" (203mm)
23-1051	No. 000	
23-1052	No. 00	
23-1053	No. 0	
23-1054	No. 1	
23-1055	No. 2	
23-1056	No. 3	
23-1057	No. 4	
23-1058	No. 5	
23-1059	No. 6	
	SPINAL Fusion Curettes, straight	
	Length	9" (229mm)
23-1061	No. 000	
23-1062	No. 00	
23-1063	No. 0	
23-1064	No. 1	
23-1065	No. 2	
23-1066	No. 3	
23-1067	No. 4	
23-1068	No. 5	
23-1069	No. 6	
	SPINAL Fusion Curettes, straight	
	Length	11" (279mm)
23-1081	No. 000	
23-1082	No. 00	
23-1083	No. 0	
23-1084	No. 1	
23-1085	No. 2	
23-1086	No. 3	
23-1087	No. 4	
23-1088	No. 5	
23-1089	No. 6	

CURETTES

21-1003	SPINAL FUSION CURETTE Storage and Sterilizing Case, holds nine sizes of curettes 23-1061 through 23-1069. Width 7¼" (184mm) Length 11¾" (299mm)
21-1022	SPINAL FUSION CURETTE Storage and Sterilizing Case, holds nine sizes of curettes. Width 7¼" (184mm) Length 9¾" (248mm)



DISCECTOMY, MICROLUMBAR

WILLIAMS Micro Discectomy Instruments are designed to be used in the microsurgical treatment of herniated disks.
WILLIAMS Instruments include:
WILLIAMS Microlumbar Discectomy Retractor, self-retaining wound retraction for deep exposure.

	Blade Width	Blade Length
80-1650	1cm	5cm
80-1651	2cm	5cm
80-1652	1cm	7cm
80-1653	2cm	7cm



SPINE

DISCECTOMY, MICROLUMBAR



80-1654	WILLIAMS Dissectomy Forceps, single-toothed cup.		
	Bit size		2mm
	Length	5½"	(140mm)



80-1655	WILLIAMS Microlumbar Dissectomy Suction Retractor		
	Tube diameter	16 Fr.	
	Length	6"	(152mm)

DISSECTORS/SEPARATORS



46-3006	ANNULAR Dissector Perforator		
	Used to reduce annular bulge following discectomy; depressing it into the interspace to enhance and assist in removal of recalcitrant nucleus. May serve to dissect scar tissue from dural sac. Atraumatic tip geometry.		
	Length:	8¾"	(22cm)
	Tip length:	½"	(13mm)
	Tip tapers	¼" (6mm) to ⅛" (3mm)	



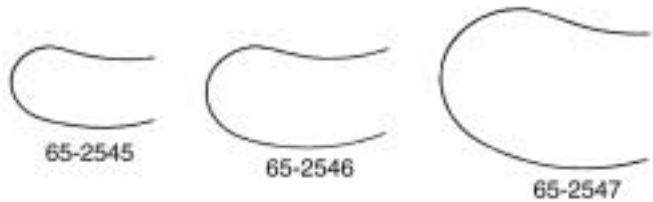
50-1665	CROCKARD Bayonet Micro-Dissector		
	10" (250mm) for transoral dissection, footplate designed to dissect tissue and reduce opportunity for dural penetration. Especially useful in definition of apical and alar ligaments and general dissection.		
	Length	10"	(250mm)

ELEVATORS

ADSON Periosteal Elevators,		
	Length	6½" (165mm)
65-1030	No. 1 Chisel edge	
	Blade width	5/16" (8mm)
65-1031	No. 2 Curved, blunt edge	
	Blade width	¼" (6mm)
65-1032	No. 3 Curved, semi-sharp edge	
	Blade width	¼" (6mm)
65-1033	No. 4 Straight, semi-sharp edge	
	Blade width	5/16" (8mm)



COBB Spinal Elevators		
65-2545	Blade width	3/8" (10mm)
	Total Length	11" (279mm)
65-2546	Blade width	½" (13mm)
	Total Length	11" (279mm)
65-2547	Blade width	¾" (19mm)
	Total Length	11" (279mm)



CUSHING Staphylorrhaphy Elevators		
	Blade width	¼" (6mm)
65-1045	Round handle	Length 8½" (216mm)

SPINE

ELEVATORS



65-1047 CUSHING Little Joker Periosteal Elevators
 Hollow handle
 Blade width 1/4" (6mm)
 Length 6" (152mm)



65-1048 Solid handle
 Blade width 1/4" (6mm)
 Length 7 1/2" (191mm)



65-1050 CUSHING Periosteal Elevators, sharp.
 Narrow
 Blade width 1/4" (6mm)
 Length 8 1/8" (206mm)

65-1051 Extra narrow
 Blade width 3/16" (5mm)
 Length 8 1/8" (206mm)



65-1075 CUSHING Periosteal Elevators, sharp, wide.
 Rounded edge
 Blade width 5/8" (16mm)
 Length 7 1/4" (184mm)



65-1076 Square edge
 Blade width 5/8" (16mm)
 Length 7 1/4" (184mm)

ELEVATORS

65-1092 CUSHING Periosteal Elevator, sharp, narrow, Gutsch handle.
 Blade width $\frac{3}{16}$ " (5mm)
 Length $7\frac{5}{8}$ " (194mm)



65-1094 CUSHING-HOPKINS Periosteal Elevator, Gutsch handle.
 Blade width $\frac{7}{16}$ " (11mm)
 Length $7\frac{5}{8}$ " (194mm)



HOEN Periosteal Elevators

65-1001 No. 1 Blade width $\frac{5}{16}$ " (8mm)
 Total length 7" (178mm)

65-1002 No. 2 Blade width $\frac{5}{8}$ " (15mm)
 Total length $7\frac{1}{4}$ " (184mm)

65-1003 No. 3 Blade width $\frac{3}{4}$ " (20mm)
 Total length $7\frac{1}{2}$ " (191mm)

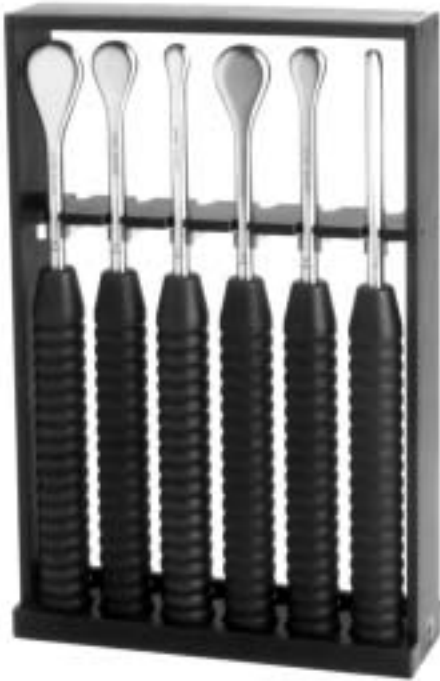


65-1080 IOWA UNIVERSITY Periosteal Elevator
 Blade width $1\frac{1}{16}$ " (17mm)
 Length $7\frac{1}{4}$ " (184mm)



SPINE

ELEVATORS



46-3425 PG MAGNUM COBB Elevators
Broad razor sharp blades accelerate periosteal stripping while reducing potential for spinal canal penetration.

Set of 6 COBB Elevators with Case includes:

46-3426 COBB Elevator, Str. 10mm

46-3427 COBB Elevator, Str. 15mm

46-3428 COBB Elevator, Str. 20mm

46-3429 COBB Elevator, Str. 25mm

46-3430 COBB Elevator, Str. 30mm

46-3431 COBB Elevator, Str. 35mm

46-3407 Sterilizing Case for any 12 PG MAGNUM Instruments

Total length 12.6" (32cm)

Handle length 7.8" (20cm)

Handle diameter 1.12" (3cm)

Working distance 4.7" (12cm)

ELEVATORS

KARLIN™ XL MAGNUM Cobb Elevators Extra Length (XL), black handles, allow two-handed control. Sharp, broad instruments designed to facilitate soft tissue elevation and removal.

Length 13.25" (337mm)

Handle diameter 1.25" (32mm)

46-3240 Set of six in case for twelve instruments
Includes:

46-3241 10mm

46-3242 15mm

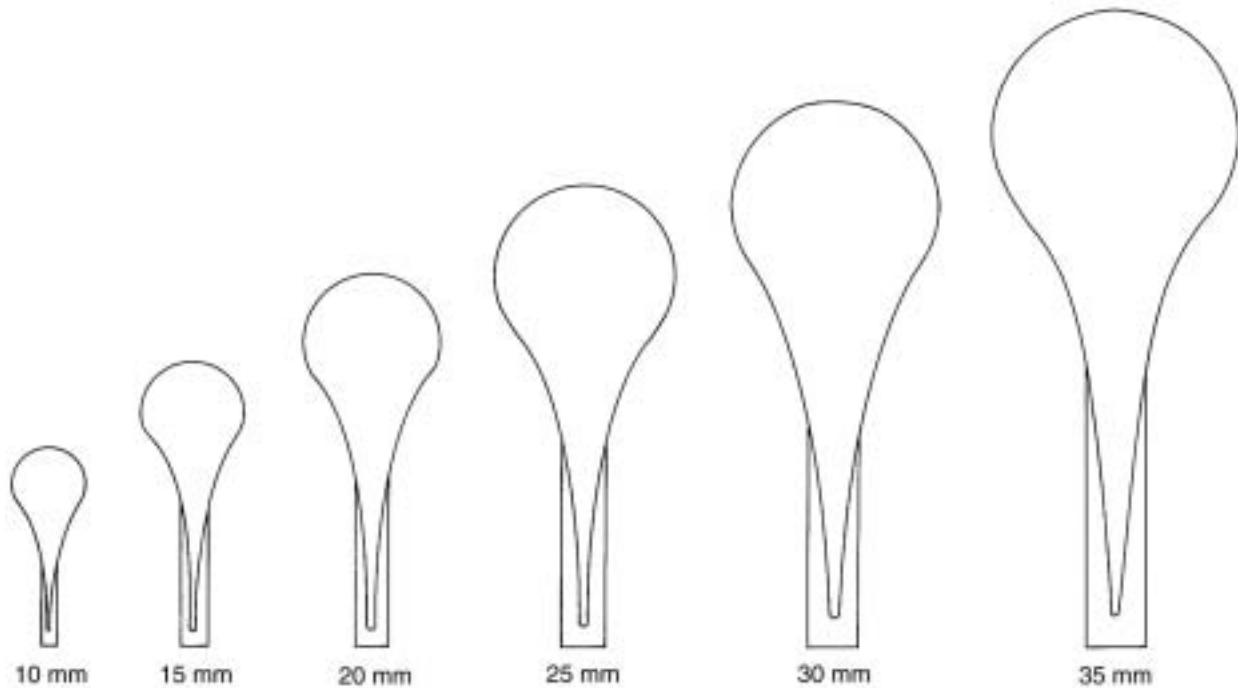
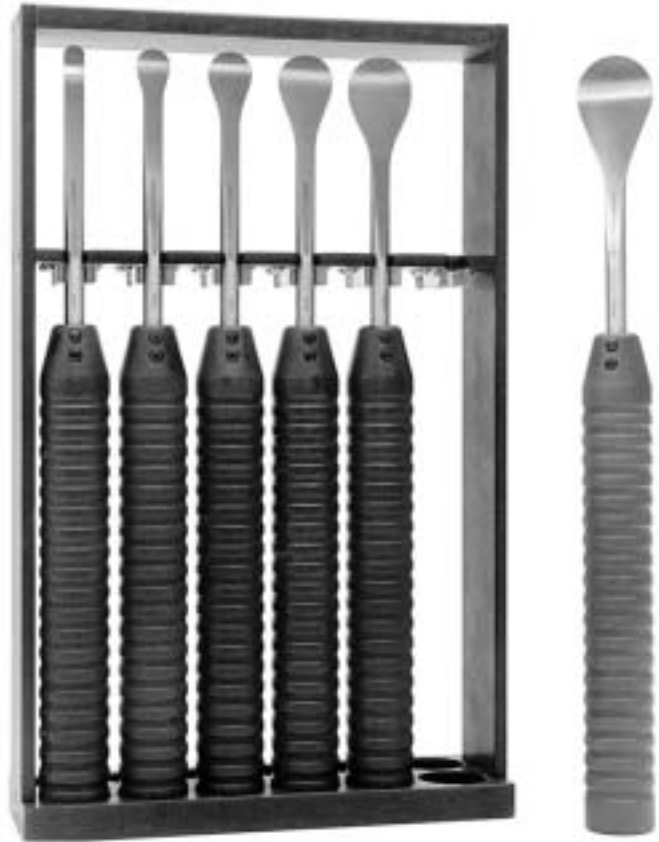
46-3243 20mm

46-3244 25mm

46-3245 30mm

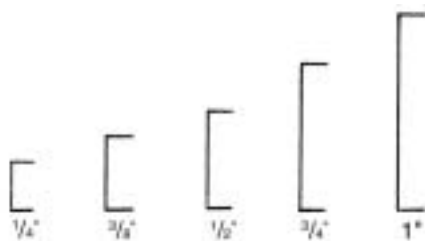
46-3246 35mm

46-3222 XL MAGNUM instrument case for 12



SPINE

ELEVATORS



KEY Periosteal Elevators		
	Total length	7 1/2" (191mm)
65-2510	Blade width	1/4" (6mm)
65-2511	Blade width	3/8" (10mm)
65-2512	Blade width	1/2" (13mm)
65-2513	Blade width	3/4" (19mm)
65-2514	Blade width	1" (25mm)



LANGENBECK Periosteal Elevators		
65-1115	Narrow	
	Blade width	1/4" (6mm)
	Length	8 1/4" (206mm)
65-1116	Wide	
	Blade width	1 1/16" (17mm)
	Length	7 1/2" (191mm)



65-1110	LOVE-ADSON Periosteal Elevator, semi-sharp.	
	Blade width	3/16" (5mm)
	Length	6 1/2" (165mm)



65-1038	MILLIGAN Dissector, double-ended.	
	Length	8 1/2" (216mm)
	Tip sizes	(14mm) (16mm)

ELEVATORS



PENFIELD Dissectors	
65-1015	No. 1 Broad curved dissector, and sharp round spoon, double-ended. Length 7" (178mm)
65-1016	No. 2 Slightly curved dissector, and wax packer, double-ended. Length 7 ³ / ₄ " (197mm)
65-1017	No. 3 Full curved dissector and wax packer, double-ended. Length 7 ³ / ₄ " (197mm)
65-1018	No. 4 Slightly curved dissector, light. Length 8 ¹ / ₄ " (210mm)
65-1019	No. 5 Slightly curved blunt dissector, double-ended. Length 11 ¹ / ₂ " (272mm)

PRESBYTERIAN HOSPITAL Staphylorrhaphy Elevators, double-ended, semi-sharp and sharp blades.	
65-1005	Blade width (4mm) Length 7" (178mm) Straight
65-1006	Curved



65-1008	SUNDAY Staphylorrhaphy Elevator, blunt, slightly curved. Blade width (3mm) Length 9" (229mm)
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ELEVATORS



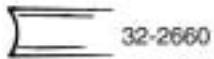
65-1135 WOODSON Dural Separator and Packer, double-ended with groove in blade.
 Blade width 1/8" (3mm)
 Blade length 1/2" (13mm)
 Total length 7" (178mm)

FORCEPS



30-1228 LIGAMENTA FLAVA Forceps, curved on side, 1x2 teeth.
 Length 7 1/4" (184mm)

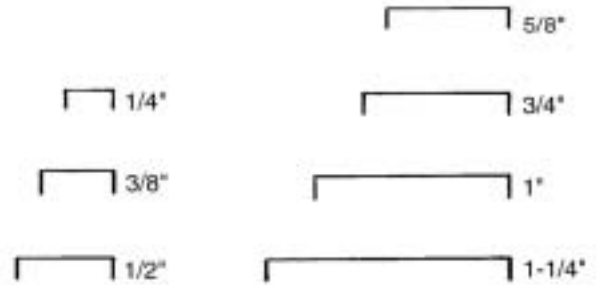
GOUGES



COBB Spinal Gouges
 Tip width 1/4" (6mm)
 Length 11" (279mm)
32-2660 Straight
32-2661 Lesser curve
32-2662 Full curve
32-2663 Reverse curve

Fits in Codman sterilizing and carrying case 21-1020.

GOUGES



CODMAN Bone Gouges

	Length	Tip width	
Straight	11"		(279mm)
32-2000	32-2010	1/4"	(6mm)
32-2001	32-2011	3/8"	(10mm)
32-2002	32-2012	1/2"	(13mm)
32-2003	32-2013	5/8"	(16mm)
32-2004	32-2014	3/4"	(19mm)
32-2005	32-2015	1"	(25mm)
32-2006	32-2016	1 1/4"	(32mm)

Fits in Codman sterilizing and carrying case 21-1020.

GOUGES



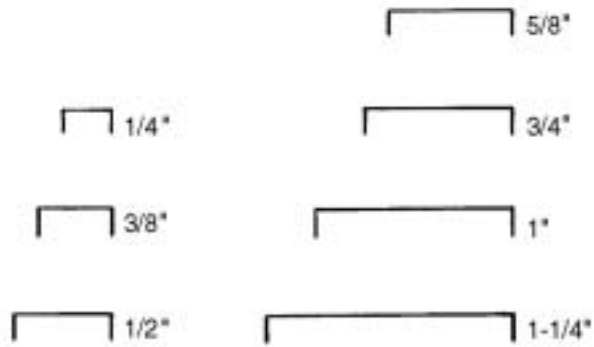
32-2541



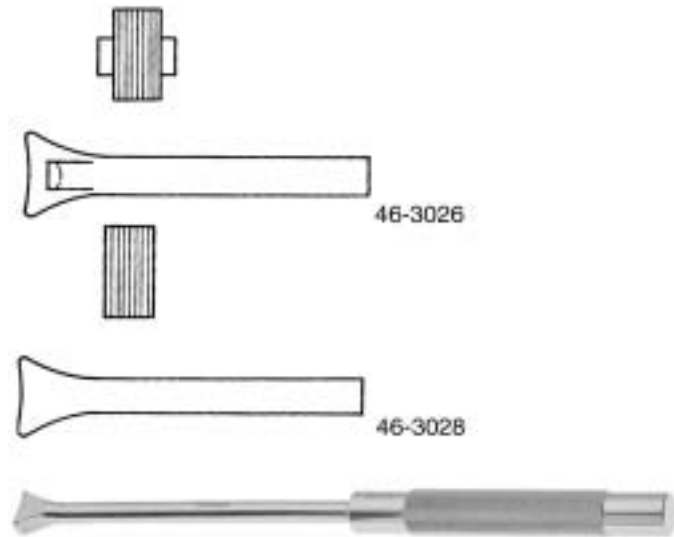
32-2546

SMITH-PETERSEN Bone Gouges

	Length	8"	(203mm)
Straight	Curved	Tip width	
32-2540	32-2550	1/4"	(6mm)
32-2541	32-2551	3/8"	(10mm)
32-2542	32-2552	1/2"	(13mm)
32-2543	32-2553	5/8"	(16mm)
32-2544	32-2554	3/4"	(19mm)
32-2545	32-2555	1"	(25mm)
32-2546	32-2556	1 1/4"	(32mm)



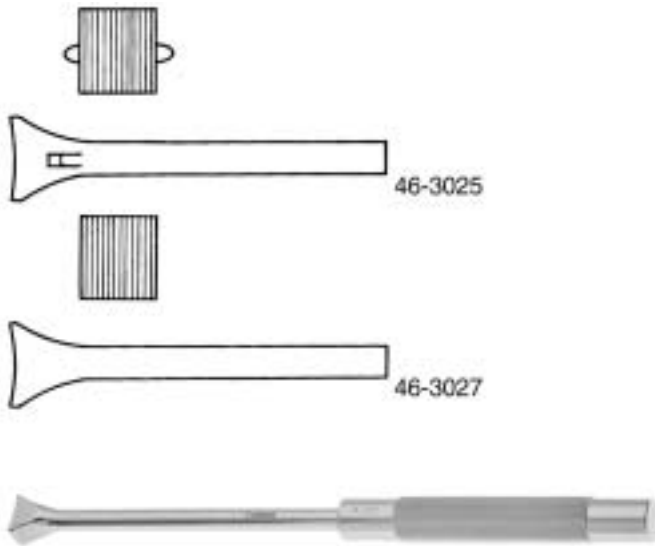
GRAFT DRIVERS



CODMAN Anterior Cervical Graft Drivers
Designed to ease placement of tri-cortical grafts. Guarded design insets graft 2mm within the cervical lip. Unguarded version allows for deeper graft seating.

		Length	Tip Thickness
46-3026	Guarded	8 ³ / ₄ " (22cm)	1/4" (6.5mm)
46-3028	Unguarded	8 ³ / ₄ " (22cm)	5/16" (7.7mm)

GRAFT DRIVERS



CODMAN Lumbar Graft Drivers

Designed to ease placement of tri-cortical grafts. Guarded version insets graft 3mm within the lumbar lip. Unguarded version allows for deeper graft seating.

		Length	Tip Thickness
46-3025	Guarded	8 $\frac{3}{4}$ " (22cm)	$\frac{3}{8}$ " (9.5mm)
46-3027	Unguarded	8 $\frac{3}{4}$ " (22cm)	$1\frac{3}{32}$ " (10mm)

GUIDES SUBLAMINAR WIRE



CODMAN SOF'WIRE Guides.

46-4100 20cm (8") instrument designed to assist the cervical spine surgeon in protective wire passage of C2–C7 vertebrae. Atraumatic end designed to dissect impeding ligamentous tissue. Suture hole for wire fixation.

46-4101 20cm (8") instrument designed to assist the cervical spine surgeon in protective wire passage of C1 vertebrae. Uniquely shaped for C1 wire passage. Atraumatic end designed to dissect impeding ligamentous tissue. Suture hole for wire fixation.

HOOKS, IMPACTORS



38-1030 CUSHING Gasserian Ganglion Hook, Blunt
 Hook depth $\frac{3}{16}$ " (5mm)
 Total length 9" (229mm)

38-1038 CODMAN Dural Hook, sharp.
 Length $6\frac{1}{2}$ " (165mm)
 Tip Diameter (2mm)



46-3006 ANNULAR Dissector Perforator
 Used to reduce annular bulge following discectomy; depressing it into the interspace to enhance and assist in removal of recalcitrant nucleus. May serve to dissect scar tissue from dural sac. Atraumatic tip geometry.
 Length: $8\frac{3}{4}$ " (22cm)
 Tip length: $\frac{1}{2}$ " (13mm)
 Tip tapers $\frac{1}{4}$ " (6mm) to $\frac{1}{8}$ " (3mm)



46-3008 CENTRAL Canal Impactor 30°
 Used to impact symptomatic spondylophytes, placed beneath and clear of neurostructures, slip resistant, textured impaction surface is held perpendicular to surrounding bone planes and impacted with a mallet. Tip oriented 30° from vertical.
 Length $8\frac{3}{4}$ " (22cm)
 Tip length $\frac{1}{2}$ " (13mm)
 Tip width $\frac{7}{32}$ " (7mm)



HOOKS, IMPACTORS



-
- 46-3020** CODMAN Micro Impactor Set
The set includes:
Length 7" (18cm)
- 46-3021** Micro Offset Central Canal Impactor
Tip size .17" (4.3mm)
- 46-3022** Micro Lateral Gutter Impactor
Tip size .37" (9.4mm)
-



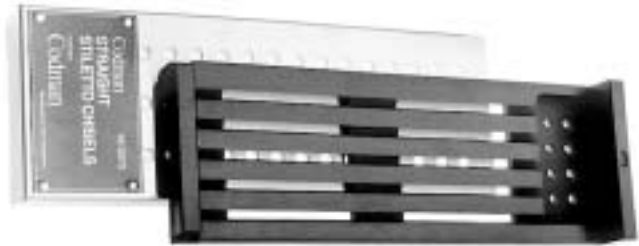
-
- 46-3021** MICRO Offset Central Canal Impactor
Designed for spondylophyte impaction within a limited exposure; and, within neuroforamina. Slip resistant textured impaction surface is held perpendicular to surrounding bone planes and impacted with mallet.
- Length 7" (178mm)
Tip length 1/4" (6mm)
Tip width 5/32" (4mm)
-



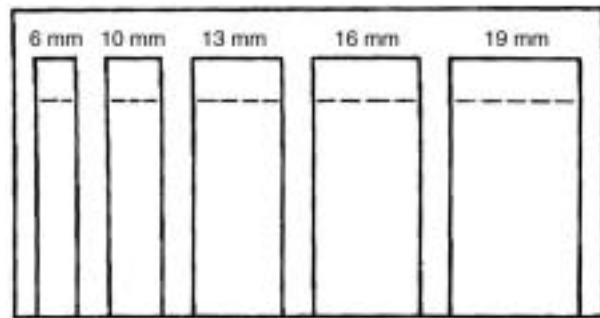
-
- 46-3022** Micro Lateral Gutter Impactor
Designed for Spondylophyte impaction within a limited exposure and within neuroforamina. Slip resistant textured impaction surface is held perpendicular to surrounding bone planes and impacted with mallet.
- Length 7" (178mm)
Tip depth 5/16" (8mm)
Tip width 5/32" (4mm)
-

KARLIN INSTRUMENTS CHISELS

-
- 46-3070** Straight Stiletto Chisel Set with Case
 Length 8½" (216mm)
 Set Includes:
- | | Tip Size | |
|----------------|-----------------------------------|--------|
| 46-3071 | Chisel Straight ¼" | (6mm) |
| 46-3072 | Chisel Straight ⅜" | (10mm) |
| 46-3073 | Chisel Straight ½" | (13mm) |
| 46-3074 | Chisel Straight ⅝" | (16mm) |
| 46-3075 | Chisel Straight ¾" | (19mm) |
| 46-3076 | Case for Straight Stiletto Chisel | |
-

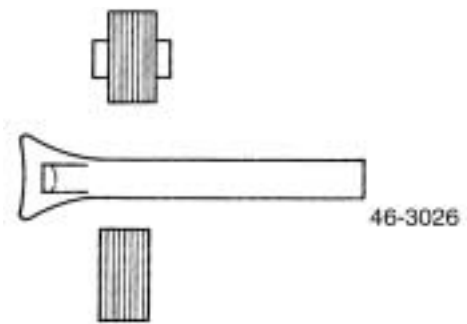


-
- 46-3080** Curved Stiletto Chisel Set with Case
 Length 8½" (216mm)
 The Set Includes:
- | | Tip Size | |
|----------------|---------------------------------|--------|
| 46-3081 | Chisel Curved ¼" | (6mm) |
| 46-3082 | Chisel Curved ⅜" | (10mm) |
| 46-3083 | Chisel Curved ½" | (13mm) |
| 46-3084 | Chisel Curved ⅝" | (16mm) |
| 46-3085 | Chisel Curved ¾" | (19mm) |
| 46-3086 | Case for Curved Stiletto Chisel | |
-



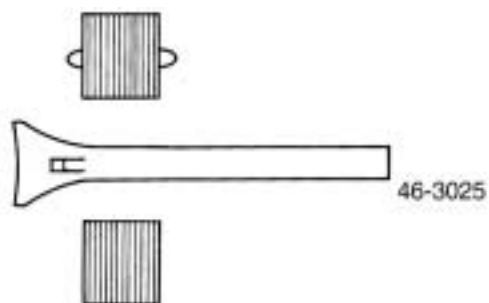
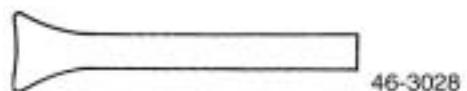
SPINE

KARLIN INSTRUMENTS DRIVER, GRAFT



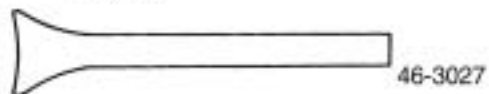
CODMAN Anterior Cervical Graft Drivers
Designed to ease placement of tri-cortical grafts. Guarded design insets graft 2mm within the cervical lip. Unguarded version allows for deeper graft seating.

		Length	Tip Thickness
46-3026	Guarded	8 ³ / ₄ " (22cm)	1/4" (6.5mm)
46-3028	Unguarded	8 ³ / ₄ " (22cm)	5/16" (7.7mm)



CODMAN Lumbar Graft Drivers
Designed to ease placement of tri-cortical grafts. Guarded version insets graft 3mm within the lumbar lip. Unguarded version allows for deeper graft seating.

		Length	Tip Thickness
46-3025	Guarded	8 ³ / ₄ " (22cm)	3/8" (9.5mm)
46-3027	Unguarded	8 ³ / ₄ " (22cm)	13/32" (10mm)



KARLIN INSTRUMENTS

IMPACTORS, SPONDYLOPHYTE

- 46-3002** LUMBAR SPONDYLOPHYTE IMPACTION SET
 SET
 The impaction set is surgeon designed to correct symptomatic spondylophytes. Complementary instruments have been assembled in a set to meet expected indications. Additional (optional) support instruments are available for broader indications. The set includes one (each) of the following:
- 46-3003** Sterilizing O.R. Display Case
46-3005 Silver Bayonet Dural Suction Retractor
 Macro tip $\frac{7}{16}$ " (10mm)
46-3006 Annular Dissector Perforator
46-3007 Offset Central Canal Impactor
46-3009 Lateral Gutter Impactor
46-3012 Black 90° Dural Suction Retractor
 Micro tip $\frac{5}{16}$ " (8mm)
- 46-3003** STERILIZING O. R. DISPLAY CASE
 Spondylophyte Impaction Set.
 Designed to house impaction set and/or ancillary instruments: three straight handled instruments and a bayonet (black or silver) Dural Suction Retractor;
 or:
 four straight handled instruments and a black 90° Dural Suction Retractor. Keeper Blade holds instruments in place
 Length: 10" (25cm)
 Width: $4\frac{1}{2}$ " (11cm)
 Thickness: $\frac{5}{8}$ " (16mm)



- 46-3005** SILVER Bayonet Dural Suction Retractor (Macro Tip)
 Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Reflective finish to benefit small wound (microdiscectomy) surgery.
- | | | |
|-----------|-----------------|----------|
| Length | 9" | (22.5cm) |
| Tip width | $\frac{3}{8}$ " | (9.5mm) |
| Tip depth | $\frac{1}{4}$ " | (6mm) |



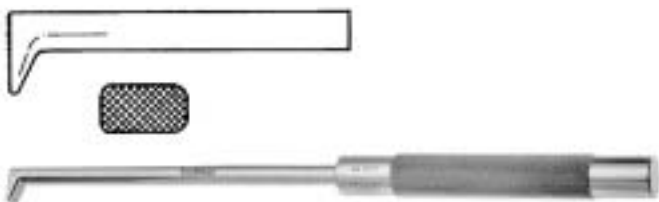
SPINE

KARLIN INSTRUMENTS

IMPACTORS, SPONDYLOPHYTE



- 46-3006** ANNULAR Dissector Perforator
 Used to reduce annular bulge following discectomy; depressing it into the interspace to enhance and assist in removal of recalcitrant nucleus. May serve to dissect scar tissue from dural sac. Atraumatic tip geometry.
- | | | |
|-------------|---------------------------------|--------|
| Length: | 8 ³ / ₄ " | (22cm) |
| Tip length: | 1/2" | (13mm) |
| Tip tapers | 1/4" (6mm) to 1/8" (3mm) | |
-



- 46-3007** OFFSET Central Canal Impactor (Standard)
 Used to impact symptomatic spondylophytes. Placed beneath and clear of neurostructures. Slip resistant, textured impaction surface is held perpendicular to surrounding bone planes and impacted with a mallet. Used to impact symptomatic spondylophytes. Placed beneath and clear of neurostructures. Slip resistant, textured impaction surface is held perpendicular to surrounding bone planes and impacted with a mallet.
- | | | |
|------------|---------------------------------|--------|
| Length | 8 ³ / ₄ " | (22cm) |
| Tip length | 7/16" | (10mm) |
| Tip width | 7/32" | (5mm) |
-



- 46-3009** LATERAL Gutter Impactor
 Used to impact symptomatic spondylophytes. Placed beneath and clear of neurostructures. Slip resistant, textured impaction surface is held perpendicular to surrounding bone planes and impacted with a mallet.
- | | | |
|-----------|---------------------------------|---------|
| Length | 8 ³ / ₄ " | (220mm) |
| Tip depth | 1/2" | (5mm) |
| Tip width | 7/32" | (13mm) |
-

KARLIN INSTRUMENTS IMPACTORS, SPONDYLOPHYTE

46-3012 90° DURAL Suction Retractor, Black (Micro)
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Blackened to reduce glare.
Working distance 4³/₄" (120mm)
Handle length 4⁵/₈" (117mm)
Tip width 9³/₃₂" (8mm)
Tip depth 1¹/₄" (6mm)



46-3008 CENTRAL Canal Impactor 30°
Used to impact symptomatic spondylophytes, placed beneath and clear of neurostructures, slip resistant, textured impaction surface is held perpendicular to surrounding bone planes and impacted with a mallet. Tip oriented 30° from vertical.
Length 8³/₄" (22cm)
Tip length 1¹/₂" (13mm)
Tip width 7¹/₃₂" (7mm)



46-3020 CODMAN Micro Impactor Set
The set includes:
Length 7" (18cm)
46-3021 Micro Offset Central Canal Impactor
Tip size .17" (4.3mm)
46-3022 Micro Lateral Gutter Impactor
Tip size .37" (9.4mm)



SPINE

KARLIN INSTRUMENTS

IMPACTORS, SPONDYLOPHYTE



46-3021 MICRO Offset Central Canal Impactor
 Designed for spondylophyte impaction within a limited exposure; and, within neuroforamina. Slip resistant textured impaction surface is held perpendicular to surrounding bone planes and impacted with mallet.

Length	7"	(178mm)
Tip length	1/4"	(6mm)
Tip width	5/32"	(4mm)



46-3022 Micro Lateral Gutter Impactor
 Designed for Spondylophyte impaction within a limited exposure and within neuroforamina. Slip resistant textured impaction surface is held perpendicular to surrounding bone planes and impacted with mallet.

Length	7"	(178mm)
Tip depth	5/16"	(8mm)
Tip width	5/32"	(4mm)

KARLIN INSTRUMENTS

KNIFE, MICRO



46-3174 KARLIN™ Micro-Knife Handle combines patented* back bayonet design, with a simple blade locking feature. Order blades separately.

46-3177 Micro Tip Blade, 2mm

46-3178 Ultra Micro Tip Blade, 1.5mm
 Blades packaged sterile, 10 per package.

*Patent No. D312,310

KARLIN INSTRUMENTS MAGNUM

KARLIN™ MAGNUM Chisels,
Black-handles, designed for use with a surgical
mallet.

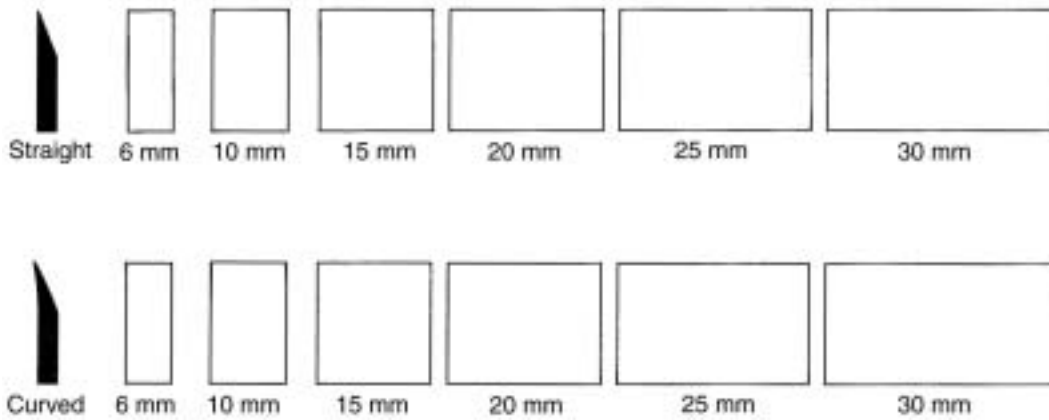
Length 10.75" (273mm)
Handle diameter 1.25" (32mm)

Straight

- 46-3100** Set of six with case
- Includes:
- 46-3101** 6mm
- 46-3102** 10mm
- 46-3103** 15mm
- 46-3104** 20mm
- 46-3105** 25mm
- 46-3106** 30mm
- 46-3107** Magnum instrument case for 6

Curved

- 46-3110** Set of six with case
- Includes:
- 46-3111** 6mm
- 46-3112** 10mm
- 46-3113** 15mm
- 46-3114** 20mm
- 46-3115** 25mm
- 46-3116** 30mm
- 46-3107** Magnum instrument case for 6



SPINE

KARLIN INSTRUMENTS MAGNUM



46-3410 PG MAGNUM Cup Curettes
Large capacity cup sizes permit rapid tissue removal:

Set of 12 Cup Curettes with Case includes:

- 46-3411** Cup Curette, Forward, Str. 7mm
- 46-3412** Cup Curette, Forward, Str. 9mm
- 46-3413** Cup Curette, Forward, Str. 11mm
- 46-3414** Cup Curette, Forward, Str. 13mm
- 46-3415** Cup Curette, Forward, Str. 15mm
- 46-3416** Cup Curette, Forward, Str. 17mm
- 46-3417** Cup Curette, Forward, Str. 19mm
- 46-3418** Cup Curette, Forward, Ang. 7mm
- 46-3419** Cup Curette, Forward, Ang. 9mm
- 46-3420** Cup Curette, Forward, Ang. 11mm
- 46-3421** Cup Curette, Forward, Down Pushing 7mm
- 46-3422** Cup Curette, Forward, Down Pushing 9mm

Total length 12.6" (32cm)

Handle length 7.8" (20cm)

Handle diameter 1.12" (3cm)

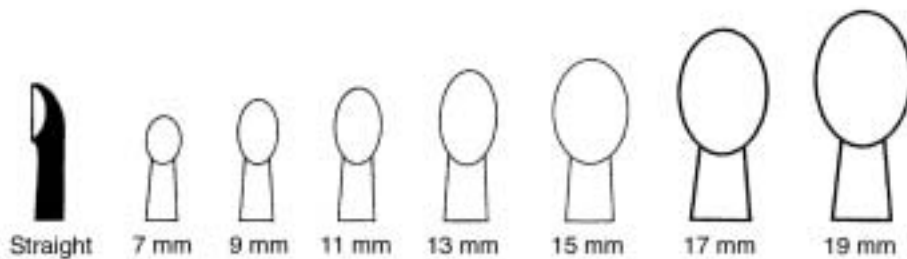
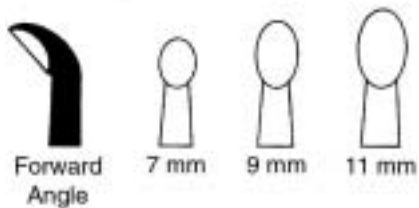
Working distance 4.7" (12cm)

KARLIN INSTRUMENTS MAGNUM

KARLIN XL MAGNUM Cup Curettes
Extra Long (XL) curettes, black handles,
lightweight

Length 13¼" (33.7cm)
Handle length 8½" (21cm)
Handle diameter 1¼" (32cm)

- 46-3225** XL MAGNUM Cup curettes with case
Includes:
- 46-3226** Curette forward straight (7mm)
 - 46-3227** Curette forward straight (9mm)
 - 46-3228** Curette forward straight (11mm)
 - 46-3229** Curette forward straight (13mm)
 - 46-3230** Curette forward straight (15mm)
 - 46-3236** Curette forward, straight (17mm)
 - 46-3237** Curette forward, straight (19mm)
 - 46-3231** Curette forward angle (7mm)
 - 46-3232** Curette forward angle (9mm)
 - 46-3233** Curette forward angle (11mm)
 - 46-3234** Curette down pushing (7mm)
 - 46-3235** Curette down pushing (9mm)
 - 46-3222** Storage/sterilizing case for 12 XL MAGNUM instruments



SPINE

KARLIN INSTRUMENTS MAGNUM



46-3400 PG MAGNUM Ring Curettes
Unique, broad-neck fulcrum provides atraumatic leverage on opposing vertebrae end plates. Dual-coned, precision sharpened rings facilitate rapid, efficient bone sculpting and removal. Each instrument engraved with depth indicator to minimize potential for deep penetration.

Total length 12.6" (32cm)

Handle length 7.8" (20cm)

Handle diameter 1.12" (3cm)

Working distance 4.7" (12cm)

Set of 6 Ring Curettes with Case, includes:

46-3401 Ring Curette, Str. 6mm

46-3402 Ring Curette, Str. 8mm

46-3403 Ring Curette, Str. 10mm

46-3404 Ring Curette, Ang. 6mm

46-3405 Ring Curette, Ang. 8mm

46-3406 Ring Curette, Ang. 10mm

46-3407 PG MAGNUM Sterilizing Case

KARLIN INSTRUMENTS MAGNUM

KARLIN™ XL MAGNUM Ring Curettes
Extra Long (XL) curettes, black handles,
lightweight

Length 13¼" (33.7cm)

Handle length 8½" (21cm)

Handle diameter 1¼" (32cm)

46-3215 Set of six with case

Includes:

46-3216 6mm Ring, Straight

46-3217 8mm Ring, Straight

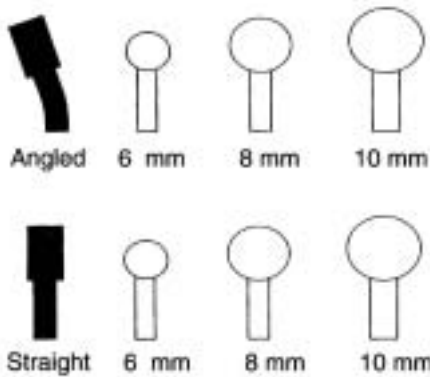
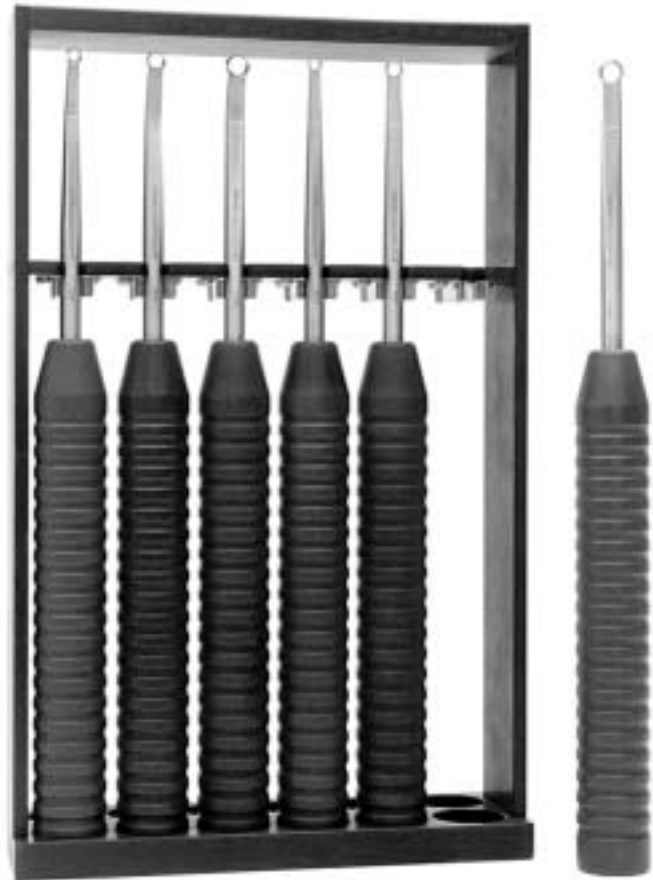
46-3218 10mm Ring, Straight

46-3219 6mm Ring, Angled

46-3220 8mm Ring, Angled

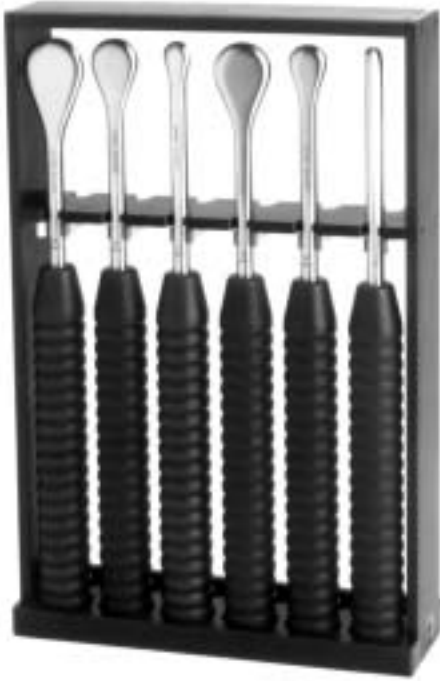
46-3221 10mm Ring, Angled

46-3222 Storage/Sterilizing Case for 12
XL MAGNUM Instruments



SPINE

KARLIN INSTRUMENTS MAGNUM



46-3425 PG MAGNUM COBB Elevators
Broad razor sharp blades accelerate periosteal stripping while reducing potential for spinal canal penetration.

Set of 6 COBB Elevators with Case includes:

46-3426 COBB Elevator, Str. 10mm

46-3427 COBB Elevator, Str. 15mm

46-3428 COBB Elevator, Str. 20mm

46-3429 COBB Elevator, Str. 25mm

46-3430 COBB Elevator, Str. 30mm

46-3431 COBB Elevator, Str. 35mm

46-3407 Sterilizing Case for any 12 PG MAGNUM
Instruments

Total length	12.6"	(32cm)
--------------	-------	--------

Handle length	7.8"	(20cm)
---------------	------	--------

Handle diameter	1.12"	(3cm)
-----------------	-------	-------

Working distance	4.7"	(12cm)
------------------	------	--------

KARLIN INSTRUMENTS MAGNUM

KARLIN™ XL MAGNUM Cobb Elevators
Extra Length (XL), black handles, allow two-
handed control. Sharp, broad instruments
designed to facilitate soft tissue elevation and
removal.

Length 13.25" (337mm)

Handle diameter 1.25" (32mm)

46-3240 Set of six in case for twelve instruments

Includes:

46-3241 10mm

46-3242 15mm

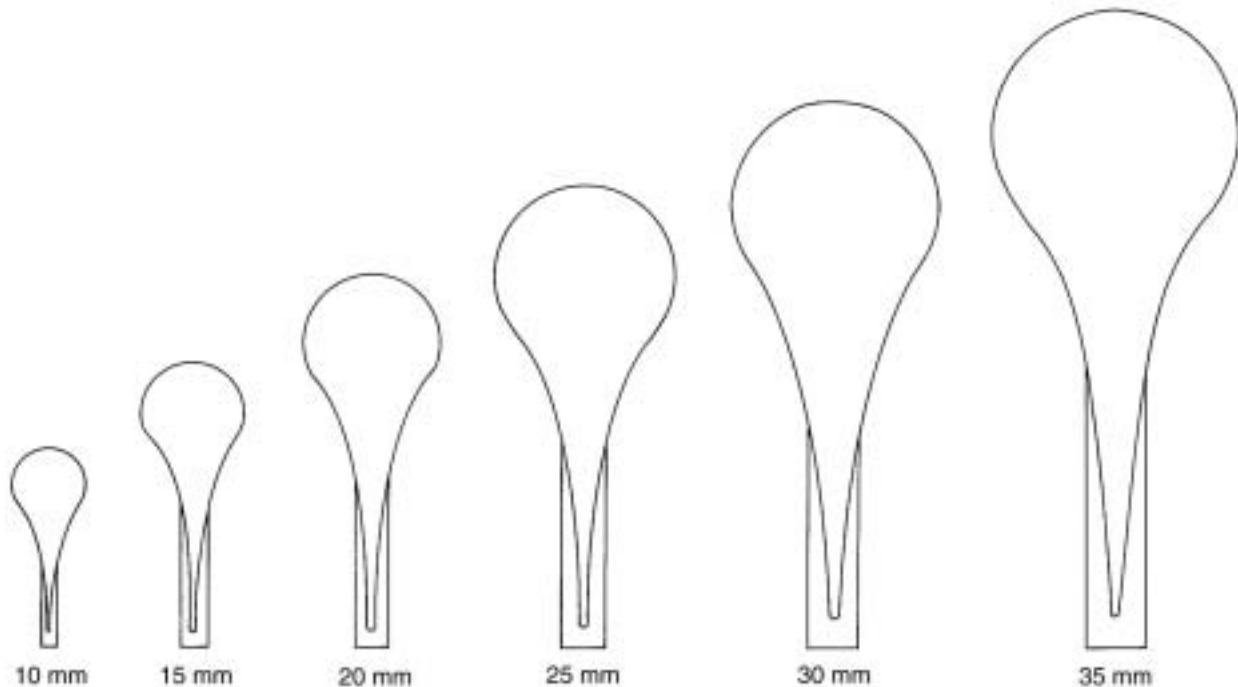
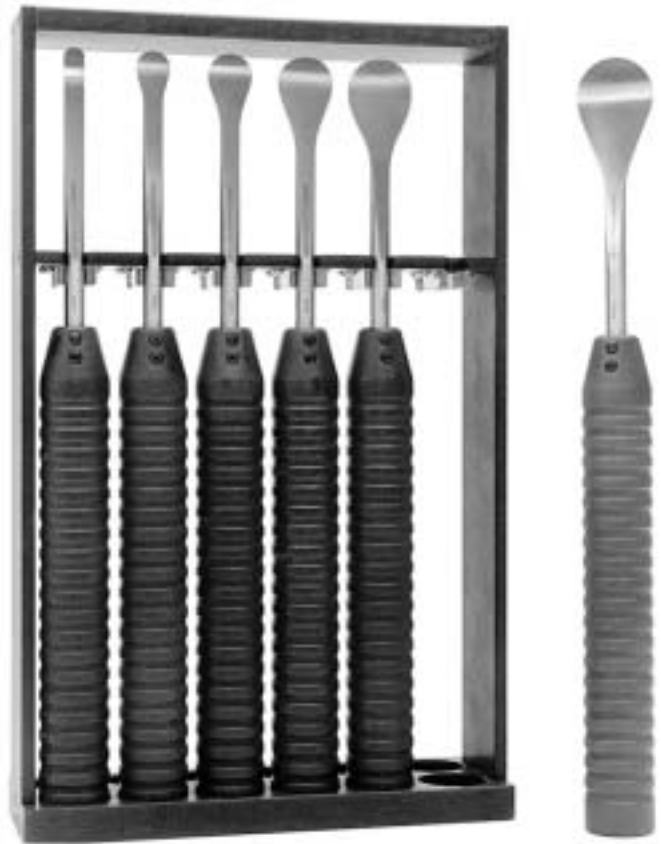
46-3243 20mm

46-3244 25mm

46-3245 30mm

46-3246 35mm

46-3222 XL MAGNUM instrument case for 12



SPINE

KARLIN INSTRUMENTS MAGNUM



46-3179



46-3146

The KARLIN MAGNUM Mallets are designed to provide optimal forward weight distribution offering precision impact with minimum effort.

46-3179	KARLIN MAGNUM Mallet, Small
Weight:	7.1 oz. (200 grms.)
Length:	9.5 in. (24.1 cm)
Diameter:	1.0 in. (2.5 cm)
46-3146	KARLIN MAGNUM Mallet, Large
Weight:	12 oz. (340 grms.)
Length:	9.72 in. (24.7 cm)
Diameter:	1.24 in. (2.5 cm)

KARLIN INSTRUMENTS MICRODISCECTOMY

KARLIN Cervical Microdiscectomy Instruments
Offset, blade handles, tip configuration marked
on handle

Length 8½" (21cm)

46-3150 Set of 24 instruments with 2 cases.

Includes:

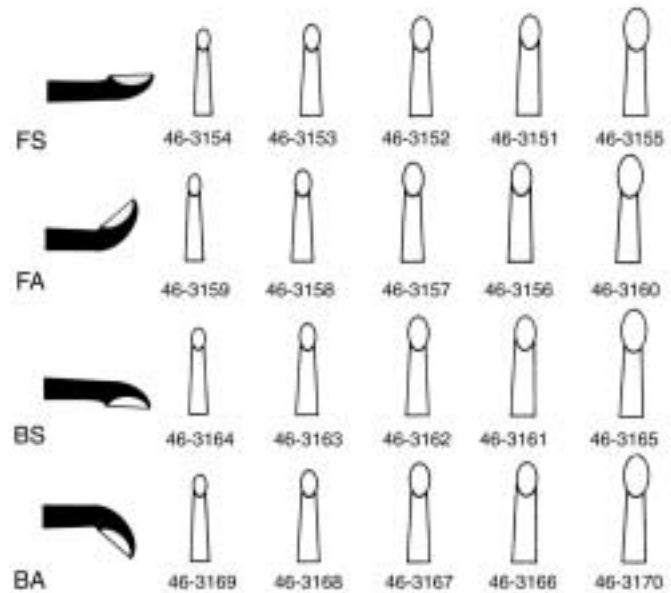
- 46-3151** Curette, Forward Straight, 0
- 46-3152** Curette, Forward Straight, 00
- 46-3153** Curette, Forward Straight, 000
- 46-3154** Curette, Forward Straight, 0000
- 46-3155** Curette, Forward Straight, Cortical Bone Cutter
- 46-3156** Curette, Forward Angle, 0
- 46-3157** Curette, Forward Angle, 00
- 46-3158** Curette, Forward Angle, 000
- 46-3159** Curette, Forward Angle, 0000
- 46-3160** Curette, Forward Angle, Cortical Bone Cutter
- 46-3161** Curette, Backward Straight, 0
- 46-3162** Curette, Backward Straight, 00
- 46-3163** Curette, Backward Straight, 000
- 46-3164** Curette, Backward Straight, 0000
- 46-3165** Curette, Backward Straight, Cortical Bone Cutter
- 46-3166** Curette, Backward Angle, 0
- 46-3167** Curette, Backward Angle, 00
- 46-3168** Curette, Backward Angle, 000
- 46-3169** Curette, Backward Angle, 0000
- 46-3170** Curette, Backward Angle, Cortical Bone Cutter
- 46-3171** Micro Nerve Hook
- 46-3172** Ultra Micro Nerve Hook
- 46-3174** Knife Handle
- 46-3173** Cervical Bone Waxer
- 46-3175** Storage/Sterilization Case for 12 instruments
- 46-3177** KARLIN Micro Knife Blade, 2.0mm
- 46-3178** KARLIN Ultra Knife Blade, 1.5mm

KARLIN Ultra Cervical Microdiscectomy
Instruments

Length 8½" (21cm)

46-3180 Set of 4 curettes with case for 4 instruments

46-3181 Storage/Sterilizing Case for 4 instruments



SPINE

KARLIN INSTRUMENTS MICRODISCECTOMY



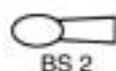
KARLIN Lumbar Microdiscectomy Instruments
offset, black handles, tip configuration marked
on handle.

Length 9½" (24.13cm)

46-3120 Set of 24 instruments with 2 cases

Includes:

- 46-3121** Curette, forward straight, 0
- 46-3122** Curette, forward straight, 1
- 46-3123** Curette, forward straight, 2
- 46-3124** Curette, forward angle, 0
- 46-3125** Curette, forward angle, 1
- 46-3126** Curette, forward angle, 2
- 46-3127** Curette, forward down, 0
- 46-3128** Curette, forward down, 1
- 46-3129** Curette, forward down, 2
- 46-3130** Curette, backward straight, 0
- 46-3131** Curette, backward straight, 1
- 46-3132** Curette, backward straight, 2
- 46-3133** Curette, backward angle, 0
- 46-3134** Curette, backward angle, 1
- 46-3135** Curette, backward angle, 2
- 46-3136** Curette, backward down, 0
- 46-3137** Curette, backward down, 1
- 46-3138** Curette, backward down, 2
- 46-3139** Penfield Dissector #1
- 46-3140** Penfield Dissector #2
- 46-3141** Nerve Hook
- 46-3142** Penfield Dissector #4
- 46-3143** Bone Waxer
- 46-3144** Spine Probe
- 46-3145** Storage/Sterilizing Case for 12 instruments



BS 2



BA 2



BD 2



BS 1



BA 1



BD 1



BS 0



BA 0



BD 0

Backward
Straight (BS)

Backward
Angle (BA)

Backward
Down (BD)



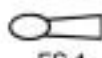
FS 2



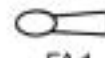
FA 2



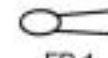
FD 2



FS 1



FA 1



FD 1



FS 0



FA 0



FD 0

Forward
Straight (FS)

Forward
Angle (FA)

Forward
Down (FD)

KARLIN INSTRUMENTS MICRODISCECTOMY

46-2625 KARLIN XL Cervical Microdiscectomy Kit
(Set of 24 Instruments with 2 Cases)
The KARLIN Extra Long Cervical
Microdiscectomy Instruments were developed
to support the extra length required when
working under a microscope. They optimize
visualization through their bayonet design and
satin black handles
46-3150)

Instrument length 9.5" (24cm)
Working distance 4.1" (10.4cm)
Handle width 0.6" (1.5cm)

Includes the following:

- 46-2626** XL Cervical Curette, Forward Straight, 0
- 46-2627** XL Cervical Curette, Forward Straight, 00
- 46-2628** XL Cervical Curette, Forward Straight, 000
- 46-2629** XL Cervical Curette, Forward Straight, 0000
- 46-2630** XL Cervical Curette, Forward Straight, Cortical
Bone Cutter
- 46-2631** XL Cervical Curette, Forward Angle, 0
- 46-2632** XL Cervical Curette, Forward Angle, 00
- 46-2633** XL Cervical Curette, Forward Angle, 000
- 46-2634** XL Cervical Curette, Forward Angle, 0000
- 46-2635** XL Cervical Curette, Forward Angle, Cortical
Bone Cutter
- 46-2636** XL Cervical Curette, Backward Straight, 0
- 46-2637** XL Cervical Curette, Backward Straight, 00
- 46-2638** XL Cervical Curette, Backward Straight, 000
- 46-2639** XL Cervical Curette, Backward Straight, 0000
- 46-2640** XL Cervical Curette, Backward Straight, Cortical
Bone Cutter
- 46-2641** XL Cervical Curette, Backward Angle, 0
- 46-2642** XL Cervical Curette, Backward Angle, 00
- 46-2643** XL Cervical Curette, Backward Angle, 000
- 46-2644** XL Cervical Curette, Backward Angle, 0000
- 46-2645** XL Cervical Curette, Backward Angle, Cortical
Bone Cutter
- 46-2646** XL Cervical Micro Nerve Hook
- 46-2647** XL Cervical Ultra Micro Nerve Hook
- 46-2648** XL Cervical Bone Waxer
- 46-3174** KARLIN Micro-Knife Handle
- 46-3145** Storage/Sterilizing Case for 12 Instruments
(2 provided with Kit)



SPINE

KARLIN INSTRUMENTS

RETRACTORS, CRANK FRAME



46-3190 KARLIN CRANK FRAME SPINAL RETRACTOR SET

Designed for posterior lumbar and Thoracic spine surgery. Arm design allows the blades to be pre-positioned in the wound prior to attachment. Blades are interchangeable. Multiple blades may be used on each retractor arm.

Maximum width opening 5½" (140mm)

Crank Frame Spinal Retractor Set Includes:

- 46-3191** Crank Frame Retractor Body
 - 46-3192** Crank Frame Retractor Ratchet
 - 46-3193** Blade with Sacral cutout, Left
1¼" x 1½" (31mm x 38mm)
 - 46-3194** Blade with Sacral cutout, Right
1¼" x 1½" (31mm x 38mm)
 - 46-3195** Blade with Sacral cutout, Left
2¼" x 1¾" (57mm x 44mm)
 - 46-3196** Blade with Sacral cutout, Right
2¼" x 1¾" (57mm x 44mm)
 - 46-3197** Blade, Left/Right (2 in Set, 1 with re-order)
3" x 2½" (76mm x 64mm)
-



CRANK FRAME RETRACTOR Blades.

Additional Blades for use with Crank Frame Retractor Body 46-3191.

- 46-3199** Blades, Left and Right pair, offset
¾" x 1¼" (19mm x 31mm)
 - 46-3200** Blades, Left and Right pair, offset
¾" x 1¾" (19mm x 44mm)
 - 46-3201** Blades, Left and Right pair, offset
¾" x 2¼" (19mm x 57mm)
 - 46-3202** Blades, Left and Right pair, offset
¾" x 3" (19mm x 76mm)
 - 46-3203** Blades, Left and Right pair, offset
¾" x 3¼" (19mm x 83mm)
 - 46-3204** Blades, Left and Right pair, offset
¾" x 4" (19mm x 102mm)
 - 46-3205** Blades, Left and Right pair
2" x 4" (51mm x 102mm)
-

KARLIN INSTRUMENTS RETRACTORS, CRANK FRAME

KARLIN Pronged Retractor Blades

The KARLIN pronged blades are used in conjunction with any of the standard offset blades offered with the Crank Frame Retractor System. These blades expand the capability of the retractor to include unilateral minimal incision surgery.



		Depth
46-3208	Crank Frame Retractor Blade, Single Prong	1.5" (38mm)
46-3209	Crank Frame Retractor Blade, Single Prong	2.0" (51mm)
46-3210	Crank Frame Retractor Blade, Single Prong	2.5" (64mm)
46-3211	Crank Frame Retractor Blade, Double Prong	1.5" (38mm)
46-3212	Crank Frame Retractor Blade, Double Prong	2.0" (51mm)
46-3213	Crank Frame Retractor Blade, Double Prong	2.5" (64mm)

KARLIN INSTRUMENTS RETRACTORS, CRANK FRAME



46-3206



46-3207

	Crank Frame Retractor Blade, Semi Hemi
46-3206	Size 1 1/4" x 1 1/4" (31mm x 31mm)
46-3207	Size 2" x 1 1/4" (51mm x 31mm)

KARLIN INSTRUMENTS RETRACTORS, NERVE ROOT

- 46-3004** SILVER Bayonet Dural Suction Retractor (Micro Tip)
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Reflective finish to benefit small wound (microdiscectomy) surgery.
- | | | |
|-----------|-------|---------|
| Length | 8½" | (220mm) |
| Tip width | 5/16" | (8mm) |
| Tip depth | ¼" | (6mm) |



- 46-3005** SILVER Bayonet Dural Suction Retractor (Macro Tip)
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Reflective finish to benefit small wound (microdiscectomy) surgery.
- | | | |
|-----------|------|----------|
| Length | 9" | (22.5cm) |
| Tip width | 3/8" | (9.5mm) |
| Tip depth | ¼" | (6mm) |



- 46-3010** BLACK Bayonet Dural Suction Retractor (Macro)
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Black finish minimizes operative glare.
- | | | |
|-----------|--------|--------|
| Length | 8½" | (22cm) |
| Tip width | 11/32" | (22mm) |
| Tip depth | ¼" | (6mm) |



- 46-3011** BLACK Bayonet Dural Suction Retractor (Micro)
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Black finish minimizes operative glare.
- | | | |
|-----------|-----|---------|
| Length | 8½" | (220mm) |
| Tip width | ¼" | (6mm) |
| Tip depth | ¼" | (6mm) |



KARLIN INSTRUMENTS

RETRACTORS, NERVE ROOT



46-3012 90° DURAL Suction Retractor, Black (Micro)
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Blackened to reduce glare.

Working distance	4 ³ / ₄ "	(120mm)
Handle length	4 ⁵ / ₈ "	(117mm)
Tip width	9/ ₃₂ "	(8mm)
Tip depth	1/ ₄ "	(6mm)



46-3013 BLACK 90° DURAL Suction Retractor (Standard Macro)
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction hole in handle. Blackened to reduce glare.

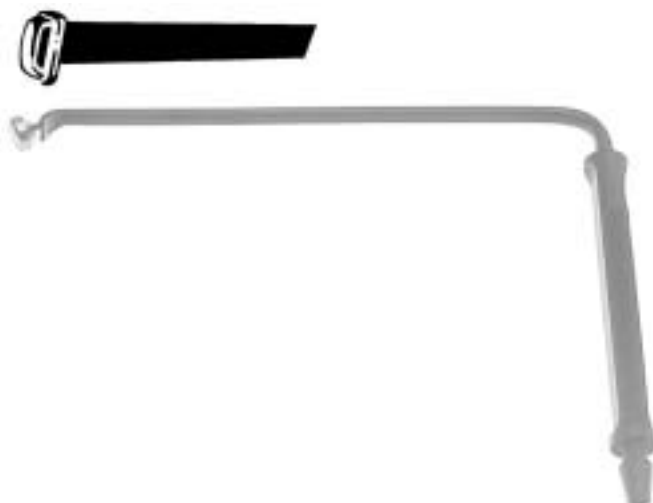
Working distance	4 ³ / ₄ "	(120mm)
Handle length	4 ¹ / ₂ "	(114mm)
Tip width	3/ ₈ "	(9.5mm)
Tip depth	1/ ₄ "	(6mm)

KARLIN INSTRUMENTS RETRACTORS, NERVE ROOT

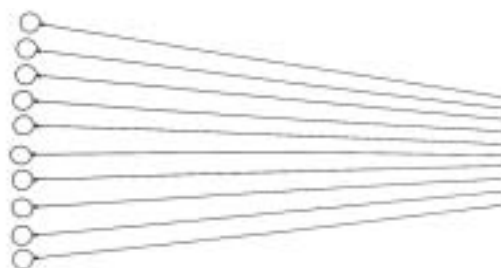
- 46-3014** BLACK 90° DURAL Suction Retractor (Extended Micro)
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction hole in handle. Blackened to reduce glare.
- | | | |
|------------------|---------------------------------|---------|
| Working distance | 5 ³ / ₄ " | (146mm) |
| Handle length | 4 ⁵ / ₈ " | (117mm) |
| Tip width | 1/4" | (6mm) |
| Tip depth | 1/4" | (6mm) |



- 46-3015** BLACK 90° DURAL Suction Retractor (Extended Macro)
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction hole in handle. Blackened to reduce glare.
- | | | |
|------------------|---------------------------------|---------|
| Working distance | 5 ³ / ₄ " | (146mm) |
| Handle length | 4 ⁵ / ₈ " | (117mm) |
| Tip width | 3/8" | (9.5mm) |
| Tip depth | 1/4" | (6mm) |



- 46-4000** Wire Stylets used with Dural Suction Retractors for cleaning and storage. (Package of 10)



SPINE

KARLIN INSTRUMENTS OSTEOTOMES



46-3050 Curved Stiletto Osteotome Set with Case
Set Includes:

Length 8½" (216mm)
Tip Size

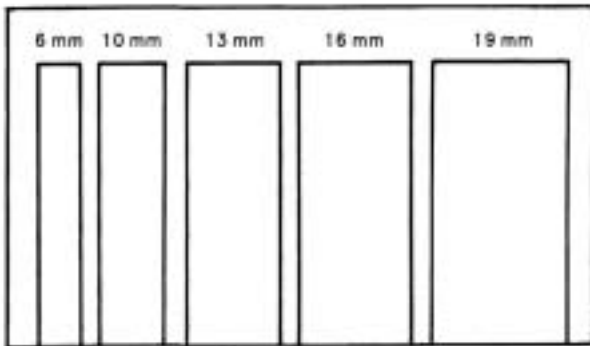
- 46-3051** Osteotome, Curved ¼" (6mm)
- 46-3052** Osteotome, Curved ⅜" (10mm)
- 46-3053** Osteotome, Curved ½" (13mm)
- 46-3054** Osteotome, Curved ⅝" (16mm)
- 46-3055** Osteotome, Curved ¾" (19mm)

46-3056 Case for Curved Stiletto Osteotome

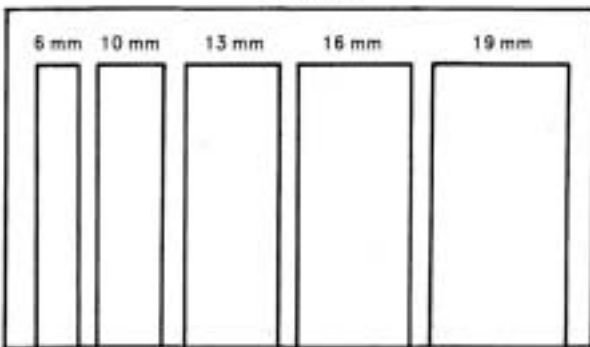
46-3060 Straight Stiletto Osteotome Set with Case
Set Includes:

Length 8½" (216mm)
Tip Size

- 46-3061** Osteotome, Straight ¼" (6mm)
- 46-3062** Osteotome, Straight ⅜" (10mm)
- 46-3063** Osteotome, Straight ½" (13mm)
- 46-3064** Osteotome, Straight ⅝" (16mm)
- 46-3065** Osteotome, Straight ¾" (19mm)
- 46-3066** Case for Straight Stiletto Osteotome



46-3051

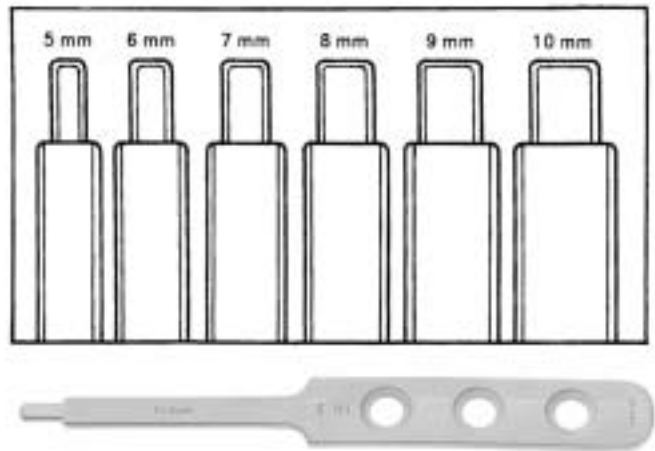


46-3061

KARLIN INSTRUMENTS CERVICAL SPANNERS

46-3040 CODMAN Cervical Spanner Set of 6 with Case designed to directly measure the height of the interspace, access soft tissue tension and distract the interspace.

	Set Includes:	Spanner Width
46-3041	Cervical Spanner	5mm
46-3042	Cervical Spanner	6mm
46-3043	Cervical Spanner	7mm
46-3044	Cervical Spanner	8mm
46-3045	Cervical Spanner	9mm
46-3046	Cervical Spanner	10mm
46-3047	Case for Cervical Spanners	



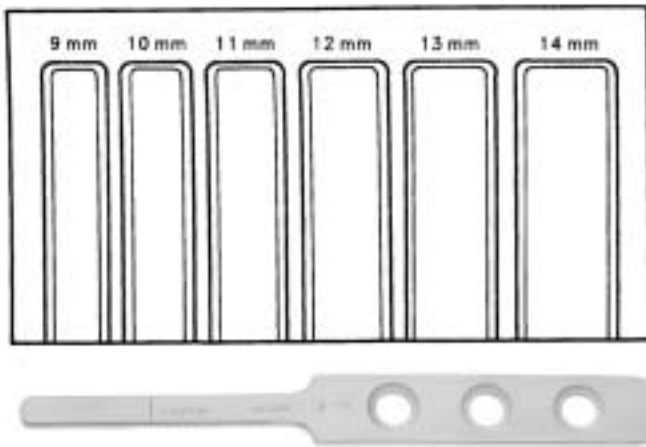
SPINE

KARLIN INSTRUMENTS LUMBAR SPANNERS



46-3030 CODMAN Lumbar Spanner, Feeler Gauge and Distraction designed to directly measure the height of the interspace, access soft tissue tension and distract the interspace.

	Set Includes:	Spanner Width
46-3031	Lumbar Spanner	9mm
46-3032	Lumbar Spanner	10mm
46-3033	Lumbar Spanner	11mm
46-3034	Lumbar Spanner	12mm
46-3035	Lumbar Spanner	13mm
46-3036	Lumbar Spanner	14mm
46-3037	Case for Lumbar Spanners	



KNIFE, MICRO

- 46-3174** KARLIN™ Micro-Knife Handle combines patented* back bayonet design, with a simple blade locking feature. Order blades separately.
- 46-3177** Micro Tip Blade, 2mm
- 46-3178** Ultra Micro Tip Blade, 1.5mm
Blades packaged sterile, 10 per package.



*Patent No. D312,310

Javelin Micro-Knife Handles
These new Javelin Micro-Knife Handles are sold individually and are designed to be used with KARLIN™ Micro Tip and Ultra Tip Micro-Knife blades.

- 46-3182** Straight
- 46-3183** Bayonet
- | | | |
|-------------------|------|---------|
| Instrument length | 9.1" | (23cm) |
| Working distance | 4.6" | (12cm) |
| Handle diameter | 0.3" | (0.7cm) |
- KARLIN™ Disposable Blades
- 46-3177** 2mm Micro Tip
- 46-3178** 1.5mm Ultra Tip



MALLETS



- 88-1005** CODMAN Hammer
- | | | |
|---------------------|---------|----------|
| Small face diameter | 3/4" | (19mm) |
| Ball pean | | |
| Face diameter | 1 1/16" | (11mm) |
| Weight | 8 oz. | (227 gm) |
| Length | 7 1/2" | (191mm) |
- 88-1006** CODMAN Hammer
- | | | |
|---------------------|--------|----------|
| Large face diameter | 1" | (25.4mm) |
| Ball pean | | |
| Face diameter | 7/8" | (22mm) |
| Weight | 13 oz. | (368 gm) |
| Length | 9" | (229mm) |

MALLETS



88-2500 SMITH PETERSEN Mallet, solid brass head.
 Diameter 1½" (38mm)
 Length 7" (178mm)
 Weight 15 oz. (420g.)



88-2520 HIBBS Mallet, solid brass head.
 Diameter 1½" (38mm)
 Length 8" (203mm)
 Weight 12 oz. (340g.)



The KARLIN MAGNUM Mallets are designed to provide optimal forward weight distribution offering precision impact with minimum effort.

46-3179 KARLIN MAGNUM Mallet, Small
 Weight: 7.1 oz. (200 grms.)
 Length: 9.5 in. (24.1 cm)
 Diameter: 1.0 in. (2.5 cm)

46-3146 KARLIN MAGNUM Mallet, Large
 Weight: 12 oz. (340 grms.)
 Length: 9.72 in. (24.7 cm)
 Diameter: 1.24 in. (2.5 cm)

OSSEOUS DISSECTION KIT

CODMAN's Micro Osseous Dissection Kit is designed for the microsurgical removal of bony, calcified or other firm tissues. These instruments can be used in conjunction with a high speed drill to thin bone before removal.

46-2600

Micro Osseous Dissection Kit

Includes:

Working Distance: 2¾" (70mm)

46-2601

Micro Rongeur, Bayonet, 40° Up-Bite, 1mm

46-2602

Micro Rongeur, Bayonet, 40° Up-Bite, 2mm

46-2603

Micro Rongeur, Bayonet, 40° Up-Bite, 3mm

Working Distance: 3" (76mm)

46-2604

Micro Curette, Bayonet, Straight 00

46-2605

Micro Curette, Bayonet, Straight 000

46-2606

Micro Curette, Bayonet, Straight 0000

46-2607

Micro Curette, Bayonet, 45° Up 00

46-2608

Micro Curette, Bayonet, 45° Up 000

46-2609

Micro Curette, Bayonet, 45° Up 0000

46-2610

Micro Curette, Bayonet, 80° Down 00

46-2611

Micro Curette, Bayonet, 80° Down 000

46-2612

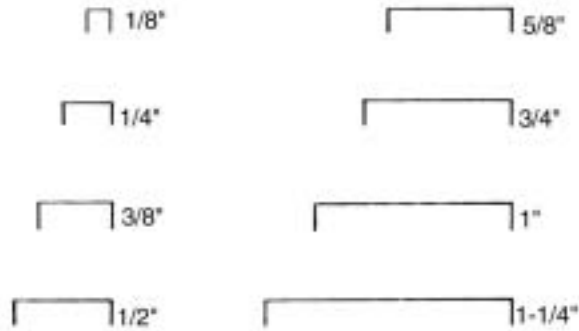
Micro Curette, Bayonet, 80° Down 0000

46-2613

ULTEM® Sterilizing Case for 46-2600



OSTEOTOMES



CODMAN Osteotomes, straight.

	Length	11"	(279mm)
46-2000	Tip width	1/4"	(6mm)
46-2001	Tip width	3/8"	(10mm)
46-2002	Tip width	1/2"	(13mm)
46-2003	Tip width	5/8"	(16mm)
46-2004	Tip width	3/4"	(19mm)
46-2005	Tip width	1"	(25mm)
46-2006	Tip width	1 1/4"	(32mm)

CODMAN Osteotomes, curved.

	Length	11"	(279mm)
46-2010	Tip width	1/4"	(6mm)
46-2011	Tip width	3/8"	(10mm)
46-2012	Tip width	1/2"	(13mm)
46-2013	Tip width	5/8"	(16mm)
46-2014	Tip width	3/4"	(19mm)
46-2015	Tip width	1"	(25mm)
46-2016	Tip width	1 1/4"	(32mm)

Fits in Codman sterilizing and carrying case 21-1020.

OSTEOTOMES

21-1020 CODMAN Sterilizing and Carrying Case.
Holds eight assorted 11" (279mm) gouges or osteotomes.

Length	11 ³ / ₄ "	(298mm)
Width	8 ⁷ / ₈ "	(225mm)
Depth (on each side)	1 ¹ / ₄ "	(32mm)



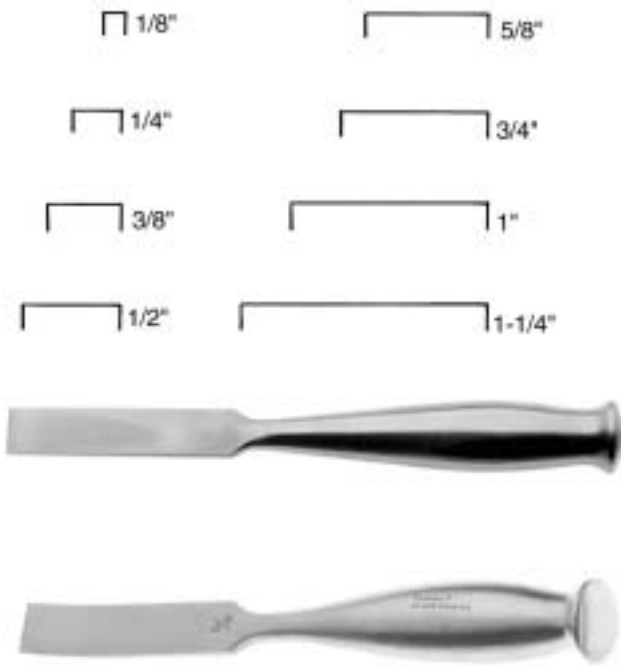
CODMAN Spinal Fusion Osteotomes

	Straight	
46-1021	Tip width	1/4" (6mm)
	Length	7 1/2" (191mm)
46-1025	Tip width	1/4" (6mm)
	Length	9 1/2" (241mm)
46-1022	Tip width	5/16" (8mm)
	Length	9 1/2" (241mm)
46-1019	Tip width	3/8" (10mm)
	Length	9 1/2" (241mm)
	Slightly curved	
46-1024	Tip width	1/4" (6mm)
	Length	9 1/2" (241mm)
	Curved	
46-1020	Tip width	1/4" (6mm)
	Length	7 1/2" (191mm)
46-1026	Tip width	1/4" (6mm)
	Length	9 1/2" (241mm)
	Full curved	
46-1023	Tip width	5/16" (8mm)
	Length	9 1/2" (241mm)



SPINE

OSTEOTOMES



	SMITH-PETERSEN Osteotomes, straight.	
	Blade thickness	2mm
	Length	8" (203mm)
46-2500	Tip width	1/4" (6mm)
46-2501	Tip width	3/8" (10mm)
46-2502	Tip width	1/2" (13mm)
46-2503	Tip width	5/8" (16mm)
46-2504	Tip width	3/4" (19mm)
46-2505	Tip width	1" (25mm)
46-2506	Tip width	1 1/4" (32mm)
	SMITH-PETERSEN Osteotomes, curved.	
	Blade thickness	2mm
	Length	8" (203mm)
46-2510	Tip width	1/4" (6mm)
46-2511	Tip width	3/8" (10mm)
46-2512	Tip width	1/2" (13mm)
46-2513	Tip width	5/8" (16mm)
46-2514	Tip width	3/4" (19mm)
46-2515	Tip width	1" (25mm)
46-2516	Tip width	1 1/4" (32mm)

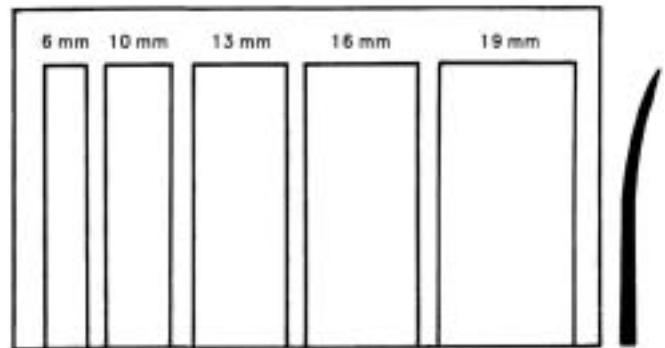
Fit in Codman Gouge and Osteotome case 21-2500.



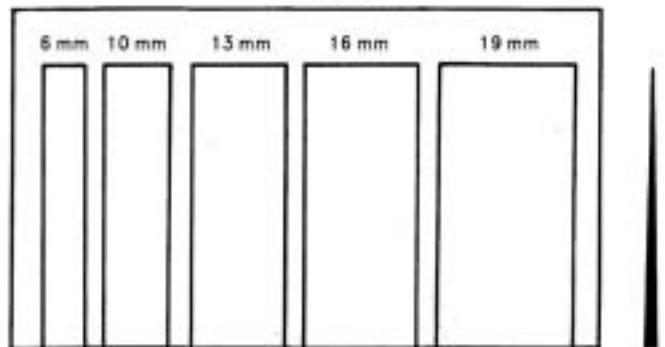
21-2500	CODMAN Gouge and Osteotome Case, holds seven SMITH-PETERSEN gouges or osteotomes.	
	Length	11" (279mm)
	Width	6 7/8" (175mm)
	Depth	2 1/4" (57mm)

OSTEOTOMES

46-3050	Curved Stiletto Osteotome Set with Case		
	Set Includes:		
	Length	8½"	(216mm)
		Tip Size	
46-3051	Osteotome, Curved	¼"	(6mm)
46-3052	Osteotome, Curved	⅜"	(10mm)
46-3053	Osteotome, Curved	½"	(13mm)
46-3054	Osteotome, Curved	⅝"	(16mm)
46-3055	Osteotome, Curved	¾"	(19mm)
46-3056	Case for Curved Stiletto Osteotome		
46-3060	Straight Stiletto Osteotome Set with Case		
	Set Includes:		
	Length	8½"	(216mm)
		Tip Size	
46-3061	Osteotome, Straight	¼"	(6mm)
46-3062	Osteotome, Straight	⅜"	(10mm)
46-3063	Osteotome, Straight	½"	(13mm)
46-3064	Osteotome, Straight	⅝"	(16mm)
46-3065	Osteotome, Straight	¾"	(19mm)
46-3066	Case for Straight Stiletto Osteotome		



46-3051



46-3061

SPINE

RETRACTORS HAND-HELD



CODMAN Blade Retractors			
	Blade length	3"	(76mm)
	Handle length	4½"	(114mm)
50-1050	Blade width		18mm
50-1052	Blade width		20mm
50-1053	Blade width		23mm



50-1022	CODMAN-CUSHING Vein Retractor		
	Blade width		9.5mm
	Blade depth		6.4mm
	Length	7¾"	(197mm)



MYERDING Laminectomy Retractors			
50-1065	Blade width	5/8"	(16mm)
	Blade depth	2"	(51mm)
	Length	9"	(229mm)
50-1066	Blade width	1"	(25mm)
	Blade depth	3"	(76mm)
	Length	9½"	(241mm)
50-1067	Blade width	2"	(51mm)
	Blade depth	3½"	(89mm)
	Length	9½"	(241mm)



TAYLOR Spinal Retractors			
50-1085	Blade width	1¾"	(30mm)
	Blade depth	3"	(76mm)
	Length	7¼"	(184mm)
50-1086	Blade width	1¼"	(32mm)
	Blade depth	4"	(102mm)
	Length	7¼"	(184mm)

RETRACTORS HAND-HELD, NERVE ROOT

50-1326 CAMPBELL Nerve Root Retractor, malleable shaft.
Blade width $\frac{3}{8}$ " (10mm)
Length $8\frac{1}{2}$ " (216mm)



50-1209 CODMAN Flexible Nerve Root Retractor
Length $8\frac{1}{2}$ " (210mm)
Blade length 1" (26mm)
Blade width $\frac{5}{16}$ " (8mm)



46-3004 SILVER Bayonet Dural Suction Retractor (Micro Tip)
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Reflective finish to benefit small wound (microdiscectomy) surgery.
Length $8\frac{1}{2}$ " (220mm)
Tip width $\frac{5}{16}$ " (8mm)
Tip depth $\frac{1}{4}$ " (6mm)



46-3005 SILVER Bayonet Dural Suction Retractor (Macro Tip)
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Reflective finish to benefit small wound (microdiscectomy) surgery.
Length 9" (22.5cm)
Tip width $\frac{3}{8}$ " (9.5mm)
Tip depth $\frac{1}{4}$ " (6mm)



RETRACTORS

HAND-HELD, NERVE ROOT



- 46-3010** BLACK Bayonet Dural Suction Retractor (Macro)
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Black finish minimizes operative glare.
- | | | |
|-----------|-----|--------|
| Length | 8½" | (22cm) |
| Tip width | 1½" | (22mm) |
| Tip depth | ¼" | (6mm) |
-



- 46-3011** BLACK Bayonet Dural Suction Retractor (Micro)
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Black finish minimizes operative glare.
- | | | |
|-----------|-----|---------|
| Length | 8½" | (220mm) |
| Tip width | ¼" | (6mm) |
| Tip depth | ¼" | (6mm) |
-



- 46-3012** 90° DURAL Suction Retractor, Black (Micro)
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Blackened to reduce glare.
- | | | |
|------------------|-----|---------|
| Working distance | 4¾" | (120mm) |
| Handle length | 4⅝" | (117mm) |
| Tip width | ⅝" | (8mm) |
| Tip depth | ¼" | (6mm) |
-

RETRACTORS HAND-HELD, NERVE ROOT

- 46-3013** BLACK 90° DURAL Suction Retractor (Standard Macro)
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction hole in handle. Blackened to reduce glare.
- | | | |
|------------------|-----|---------|
| Working distance | 4¾" | (120mm) |
| Handle length | 4½" | (114mm) |
| Tip width | ⅜" | (9.5mm) |
| Tip depth | ¼" | (6mm) |



- 46-3014** BLACK 90° DURAL Suction Retractor (Extended Micro)
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction hole in handle. Blackened to reduce glare.
- | | | |
|------------------|-----|---------|
| Working distance | 5¾" | (146mm) |
| Handle length | 4⅝" | (117mm) |
| Tip width | ¼" | (6mm) |
| Tip depth | ¼" | (6mm) |



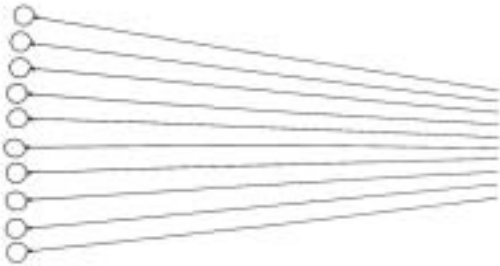
SPINE

RETRACTORS HAND-HELD, NERVE ROOT



46-3015 BLACK 90° DURAL Suction Retractor (Extended Macro)
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction hole in handle. Blackened to reduce glare.

Working distance	5 ³ / ₄ "	(146mm)
Handle length	4 ⁵ / ₈ "	(117mm)
Tip width	3 ⁸ / ₈ "	(9.5mm)
Tip depth	1 ⁴ / ₄ "	(6mm)



46-4000 Wire Stylets used with Dural Suction Retractors for cleaning and storage.

RETRACTORS HAND-HELD, NERVE ROOT



50-1270	D'ERRICO Nerve Root Retractor		
Blade width	1/4"	(6mm)	
Length	9"	(229mm)	



50-2558	HIBBS Retractors, double-ended, set of two.		
Blade width	3/4"	(19mm)	
Blade depth	2"	(51mm)	
Length	9 1/4"	(235mm)	

SPINE

RETRACTORS

HAND-HELD, NERVE ROOT

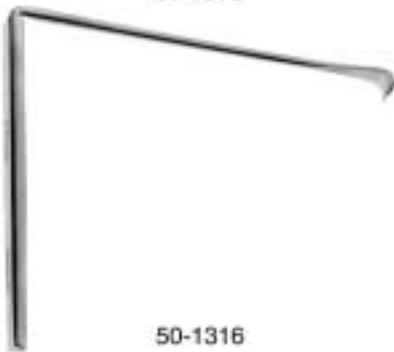


50-1331	HOLSHER Nerve Root Retractor		
	Blade width	$\frac{5}{16}$ "	(7mm)
	Length	$9\frac{3}{4}$ "	(248mm)



50-1315

50-1315	LOVE Nerve Root Retractors		
	Straight		
	Blade width	$\frac{1}{4}$ "	(6mm)
	Length	$7\frac{5}{8}$ "	(194mm)



50-1316

50-1316	90° angle		
	Blade width	$\frac{1}{4}$ "	(6mm)
	Shaft length	4"	(102mm)
	Handle length	$3\frac{3}{4}$ "	(95mm)



50-1317

50-1317	135° angle		
	Blade width	$\frac{1}{4}$ "	(6mm)
	Shaft length	4"	(102mm)
	Handle length	$3\frac{1}{4}$ "	(95mm)

RETRACTORS HAND-HELD, NERVE ROOT

SCOVILLE Nerve Root Retractors, 90° angle.

	Shaft length	4¼"	(108mm)
	Handle length	5"	(127mm)
50-1291	Blade width	5/16"	(8mm)
50-1293	Blade width	½"	(13mm)



50-1275	SMITH Nerve Root Suction Retractor, with obturator and thumb control for suction.		
	Tip width	¼"	(6mm)
	Tip depth	⅛"	(3mm)
	Shaft length	5¼"	(133mm)
	Handle length	7"	(178mm)

50-1310	WEARY Nerve Root Retractor, black finish.		
	Blade width	7/16"	(11mm)
	Shaft length	5¾"	(146mm)
	Handle length	5¾"	(146mm)



RETRACTORS HAND-HELD, NERVE ROOT



80-1655	WILLIAMS Microlumbar Discectomy Suction Retractor	
Tube diameter	16 Fr.	
Length	6"	(152mm)

RETRACTORS SELF-RETAINING



50-1255	BADGLEY Laminectomy Retractor, self-retaining	
Blade width	1 $\frac{3}{4}$ "	(44mm)
Blade depth	2"	(51mm)
Total opening	6 $\frac{3}{8}$ "	(162mm)

RETRACTORS SELF-RETAINING

50-1165	BECKMAN Thyroid Retractor, self-retaining with hinged arms. Four prong, sharp blades
Blade width	3/4" (19mm)
Blade depth	1" (25mm)
Total opening	5 1/2" (140mm)
Length	12" (305mm)



	BECKMAN-ADSON Laminectomy Retractors, self-retaining with hinged arms.
50-1160	Four prong, blunt blades
Blade width	1" (25mm)
Blade depth	1 1/4" (32mm)
Total opening	5" (127mm)
Length	12 1/8" (308mm)
50-1161	Four prong, sharp blades
Blade width	1" (25mm)
Blade depth	1" (25mm)
Total opening	5" (127mm)
Length	12" (305mm)
50-1162	Four prong, blunt blades
Blade width	1" (25mm)
Blade depth	1 3/4" (44mm)
Total opening	5 1/2" (140mm)
Length	12" (305mm)



50-1163	BECKMAN-EATON Laminectomy Retractor, self-retaining with hinged arms. Seven prong blades
Blade width	1 3/4" (44mm)
Blade depth	1 7/8" (48mm)
Total opening	5 1/2" (140mm)
Length	12 3/4" (324mm)



	CONE Laminectomy Retractors, self-retaining with hinged arms, 3x4 sharp prongs.
50-1167	Length 6 3/8" (162mm)
50-1168	Length 8" (203mm)



RETRACTORS SELF-RETAINING



46-3190 KARLIN CRANK FRAME SPINAL RETRACTOR SET

Designed for posterior lumbar and Thoracic spine surgery. Arm design allows the blades to be pre-positioned in the wound prior to attachment. Blades are interchangeable. Multiple blades may be used on each retractor arm.

Maximum width opening 5½" (140mm)

Crank Frame Spinal Retractor Set Includes:

- 46-3191 Crank Frame Retractor Body
- 46-3192 Crank Frame Retractor Ratchet
- 46-3193 Blade with Sacral cutout, Left
1¼" x 1½" (31mm x 38mm)
- 46-3194 Blade with Sacral cutout, Right
1¼" x 1½" (31mm x 38mm)
- 46-3195 Blade with Sacral cutout, Left
2¼" x 1¾" (57mm x 44mm)
- 46-3196 Blade with Sacral cutout, Right
2¼" x 1¾" (57mm x 44mm)
- 46-3197 Blade, Left/Right (2 in Set, 1 with re-order)
3" x 2½" (76mm x 64mm)



CRANK FRAME RETRACTOR Blades.

Additional Blades for use with Crank Frame Retractor Body 46-3191.

- 46-3199 Blades, Left and Right pair, offset
¾" x 1¼" (19mm x 31mm)
- 46-3200 Blades, Left and Right pair, offset
¾" x 1¾" (19mm x 44mm)
- 46-3201 Blades, Left and Right pair, offset
¾" x 2¼" (19mm x 57mm)
- 46-3202 Blades, Left and Right pair, offset
¾" x 3" (19mm x 76mm)
- 46-3203 Blades, Left and Right pair, offset
¾" x 3¼" (19mm x 83mm)
- 46-3204 Blades, Left and Right pair, offset
¾" x 4" (19mm x 102mm)
- 46-3205 Blades, Left and Right pair
2" x 4" (51mm x 102mm)

RETRACTORS SELF-RETAINING

KARLIN Pronged Retractor Blades

The KARLIN pronged blades are used in conjunction with any of the standard offset blades offered with the Crank Frame Retractor System. These blades expand the capability of the retractor to include unilateral minimal incision surgery.



		Depth
46-3208	Crank Frame Retractor Blade, Single Prong	1.5" (38mm)
46-3209	Crank Frame Retractor Blade, Single Prong	2.0" (51mm)
46-3210	Crank Frame Retractor Blade, Single Prong	2.5" (64mm)
46-3211	Crank Frame Retractor Blade, Double Prong	1.5" (38mm)
46-3212	Crank Frame Retractor Blade, Double Prong	2.0" (51mm)
46-3213	Crank Frame Retractor Blade, Double Prong	2.5" (64mm)

	Crank Frame Retractor Blade, Semi Hemi	
46-3206	Size 1¼" x 1¼"	(31mm x 31mm)
46-3207	Size 2" x 1¼"	(51mm x 31mm)



46-3206



46-3207

RETRACTORS SELF-RETAINING



	MARKHAM-MEYERDING Hemilaminectomy Retractors, self-retaining.	
	Blade width	1" (25mm)
	Blade depth	2" (51mm)
	Total opening	3¾" (95mm)
	Total length	7" (178mm)
50-1205	Left	
50-1206	Right	



	MEYERDING Laminectomy Retractors, self-retaining	
	Total opening	3¾" (95mm)
	Total length	6½" (165mm)
50-1190	Blade width	1" (25mm)
	Blade depth	2¼" (57mm)
50-1191	Blade width	1" (25mm)
	Blade depth	2" (51mm)
50-1192	Blade width	1" (25mm)
	Blade depth	1¾" (41mm)



50-1212	POPPE-GELPI Laminectomy Retractor, self-retaining	
	Total opening	2½" (64mm)
	Length	5½" (140mm)

RETRACTORS SELF-RETAINING

50-1211	SELETZ-GELPI Laminectomy Retractor, self-retaining with arms bent at right angles.		
	Arm length	2 ⁹ / ₁₆ "	(65mm)
	Total opening	3 ³ / ₄ "	(95mm)
	Length	6 ¹ / ₄ "	(159mm)



50-1125	SCOVILLE Hemilaminectomy Retractor, self-retaining. Includes the following:		
50-1126	SCOVILLE Hemilaminectomy Retractor Body		
	Arm length	5 ⁹ / ₁₆ "	(141mm)
	Total opening	5"	(127mm)
13-1004	SCOVILLE Retractor Hook		
	Length	2"	(51mm)
13-1008	SCOVILLE Retractor Blade		
	Blade width	1"	(25mm)
	Blade depth	2 ¹ / ₂ "	(64mm)

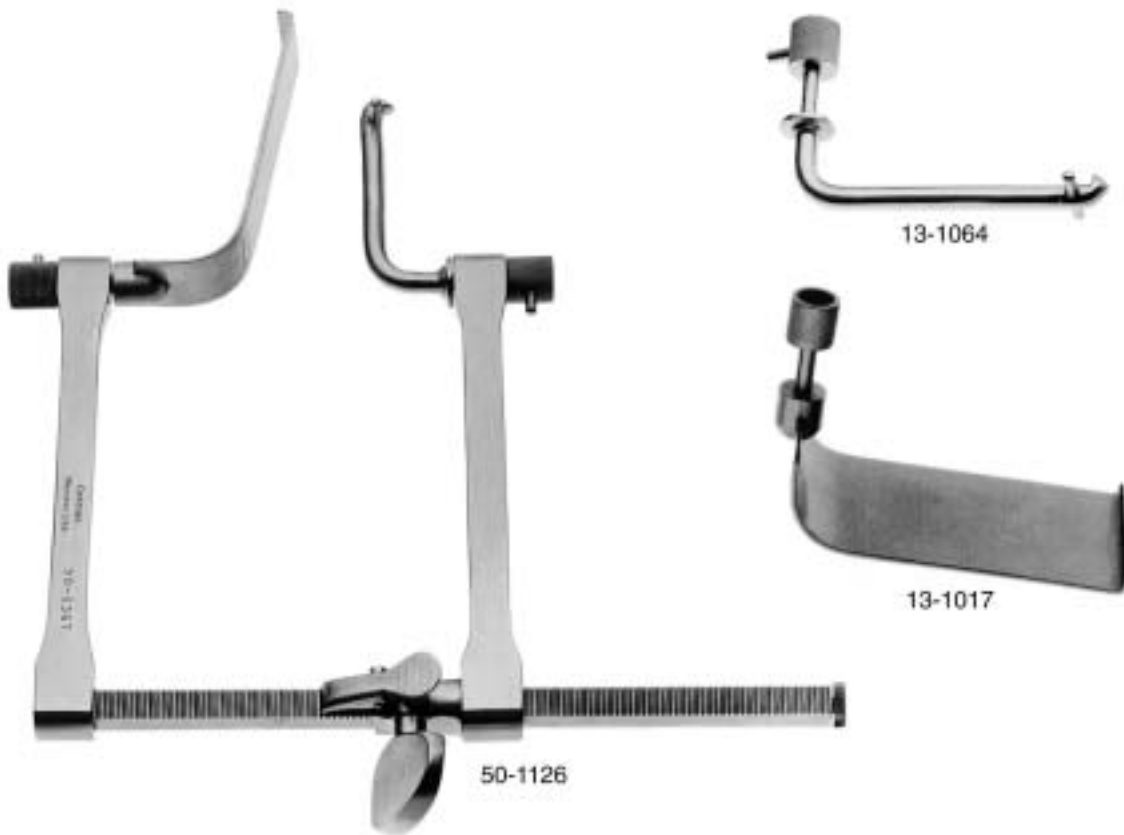


13-1009	Optional Blade		
	SCOVILLE Retractor Blade		
	Blade Width	2"	(51mm)
	Blade Length	2 ¹ / ₂ "	(64mm)

	SCOVILLE Hooks		
13-1004	Length	2"	(51mm)
13-1005	Length	3"	(76mm)

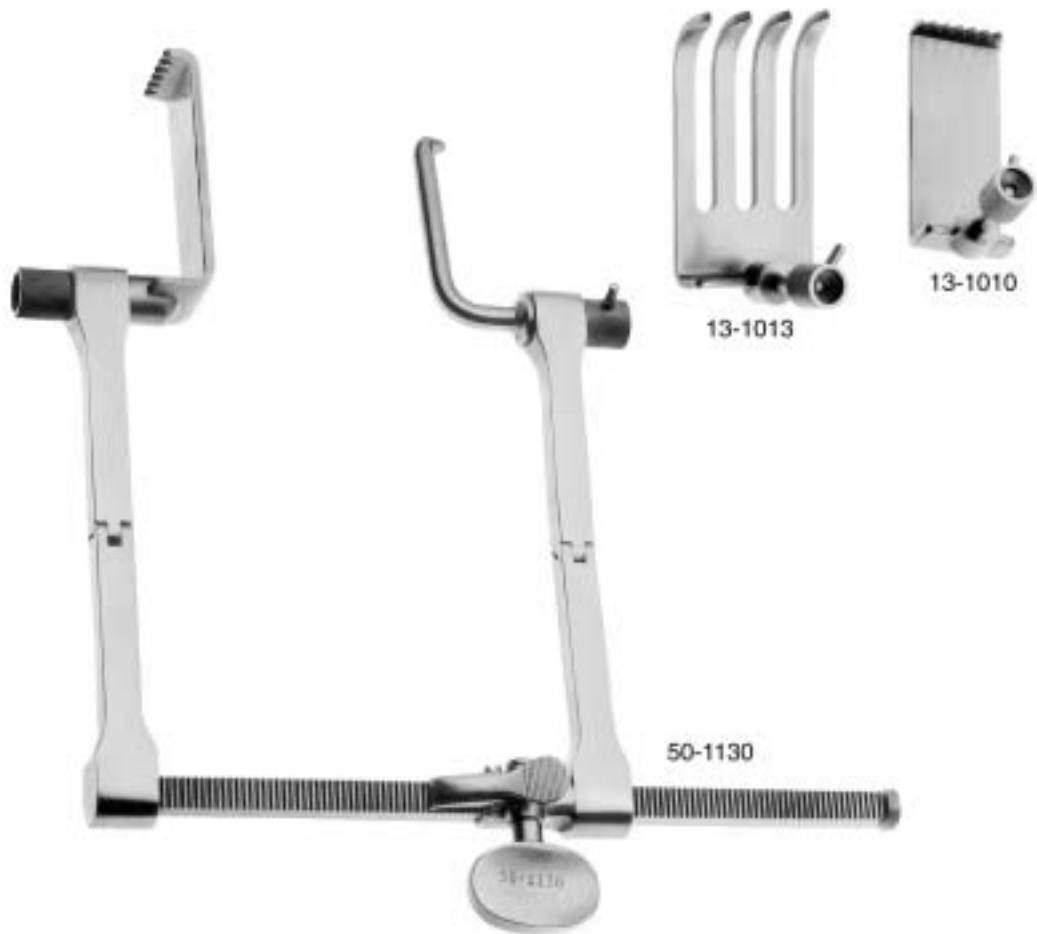


RETRACTORS SELF-RETAINING



50-1367	SCOVILLE Cervical Disc Retractor, self-retaining with ratchet action. Includes the following:		
50-1126	SCOVILLE Cervical Disc Retractor Body		
	Arm length	5 ⁹ / ₁₆ "	(141mm)
	Length	5"	(127mm)
	Total opening	5"	(127mm)
	SCOVILLE Hooks		
13-1064	Length	1 ¹ / ₂ "	(38mm)
13-1065	Length	2"	(51mm)
13-1066	Length	2 ³ / ₄ "	(70mm)
	MEYERDING Retractor Blades		
13-1061	Blade width	1"	(25mm)
	Blade depth	2"	(51mm)
13-1017	Blade width	2"	(51mm)
	Blade depth	3 ¹ / ₂ "	(89mm)
13-1063	Blade width	1"	(25mm)
	Blade depth	3 ¹ / ₄ "	(82mm)

RETRACTORS SELF-RETAINING



50-1130	SCOVILLE-HAVERFIELD Hemilaminectomy Retractor, self-retaining with ratchet action and hinged arms. Includes the following:	
50-1131	SCOVILLE-HAVERFIELD Hemilaminectomy Retractor Body	
	Arm length	5 ³ / ₄ " (146mm)
	Total opening	7" (178mm)
	SCOVILLE Retractor Blades	
13-1008	Blade width	1" (25mm)
	Blade depth	2 ¹ / ₂ " (64mm)
	SCOVILLE Hook	
13-1004	Length	2" (51mm)
	Optional Blades	
13-1010	Blade width	1 ¹ / ₈ " (29mm)
	Blade depth	2 ⁵ / ₈ " (67mm)
13-1011	Blade width	1" (25mm)
	Blade depth	3 ¹ / ₂ " (89mm)
	SCOVILLE Retractor Blades, four prong.	
13-1012	Blade width	1 ¹ / ₂ " (38mm)
	Blade depth	1 ⁵ / ₈ " (41mm)
13-1013	Blade width	1 ³ / ₄ " (44mm)
	Blade depth	2 ⁵ / ₈ " (67mm)

RETRACTORS SELF-RETAINING



SCOVILLE Hooks with fixed crossbar.			
13-1064	Crossbar length	1"	(25mm)
	Length	1½"	(38mm)
13-1065	Crossbar length	1"	(25mm)
	Length	2¾"	(56mm)
13-1066	Crossbar length	1"	(25mm)
	Length	21⅝"	(75mm)



TAYLOR Laminectomy Blades			
13-1054	Three prong		
	Blade width	1½"	(38mm)
	Blade depth	1¾"	(45mm)
13-1055	Four prong		
	Blade width	2"	(51mm)
	Blade depth	1⅞"	(48mm)
13-1056	Four prong		
	Blade width	2¼"	(57mm)
	Blade depth	2½"	(64mm)
13-1057	Four prong		
	Blade width	2¼"	(57mm)
	Blade depth	3⅞"	(79mm)

RETRACTORS SELF-RETAINING



- 50-1120** VALIN Hemilaminectomy Retractor, self-retaining with rack and pinion action.
Total opening 4½" (114mm)
Includes the following:
- 50-1121** VALIN Hemilaminectomy Retractor Body
- 13-1004** SCOVILLE Retractor Hook
Length 2" (51mm)
- 13-1008** SCOVILLE Retractor Blade
Blade width 1" (25mm)
Blade depth 2½" (64mm)

WILLIAMS Micro Discectomy Instruments are designed to be used in the microsurgical treatment of herniated disks.
WILLIAMS Instruments include:
WILLIAMS Microlumbar Discectomy Retractor, self-retaining wound retraction for deep exposure.

	Blade Width	Blade Length
80-1650	1cm	5cm
80-1651	2cm	5cm
80-1652	1cm	7cm
80-1653	2cm	7cm



RETRACTORS SELF-RETAINING



80-1655	WILLIAMS Microlumbar Discectomy Suction Retractor
Tube diameter	16 Fr.
Length	6" (152mm)



80-1654	WILLIAMS Discectomy Forceps, single-toothed cup.
Bit size	2mm
Length	5½" (140mm)

RETRACTORS

TABLE-FIXED, BOOKWALTER SPINAL

- 50-4631** BOOKWALTER Spinal Retractor
includes:
- 50-4581** BOOKWALTER Table Post 1"
50-4582 BOOKWALTER Horizontal Flex Bar
50-4554 BOOKWALTER Post Coupling 1" x 1"
50-4635 BOOKWALTER Small Round Ring
Segments (1 pair)
50-4636 BOOKWALTER Straight Ring Segment 4"
(1 pair)
50-4637 BOOKWALTER Straight Ring Segment 6"
(1 pair)
50-4638 BOOKWALTER Straight Ring Segment 8"
(1 pair)
50-4579 BOOKWALTER Ratchet Mechanism (6 each)
50-4580 BOOKWALTER Tilt Ratchet Mechanism (4 each)
50-4639 SCOVILLE Hook Retractor, Small (2 each)
50-4640 SCOVILLE Hook Retractor, Large (2 each)
50-4641 MEYERDING Retractor, Small (2 each)
50-4642 MEYERDING Retractor, Medium (2 each)
50-4643 MEYERDING Retractor, Large (2 each)
50-4644 Deep Rake Retractor, Small (2 each)
50-4645 Skin Rake Retractor, Medium (2 each)
50-4646 Skin Rake Retractor, Large (2 each)
50-4647 BOOKWALTER Spinal Retractor
Storage/Sterilizing Case



- 50-4635** BOOKWALTER Spinal Retractor Ring
Small Round Ring Segments, Pair, 8"
(203mm)
50-4636 Straight Ring Segments, Pair, 4" (101mm)
50-4637 Straight Ring Segments, Pair, 6" (152mm)
50-4638 Straight Ring Segments, Pair, 8" (203mm)



SPINE

RETRACTORS

TABLE-FIXED, BOOKWALTER SPINAL



50-4639

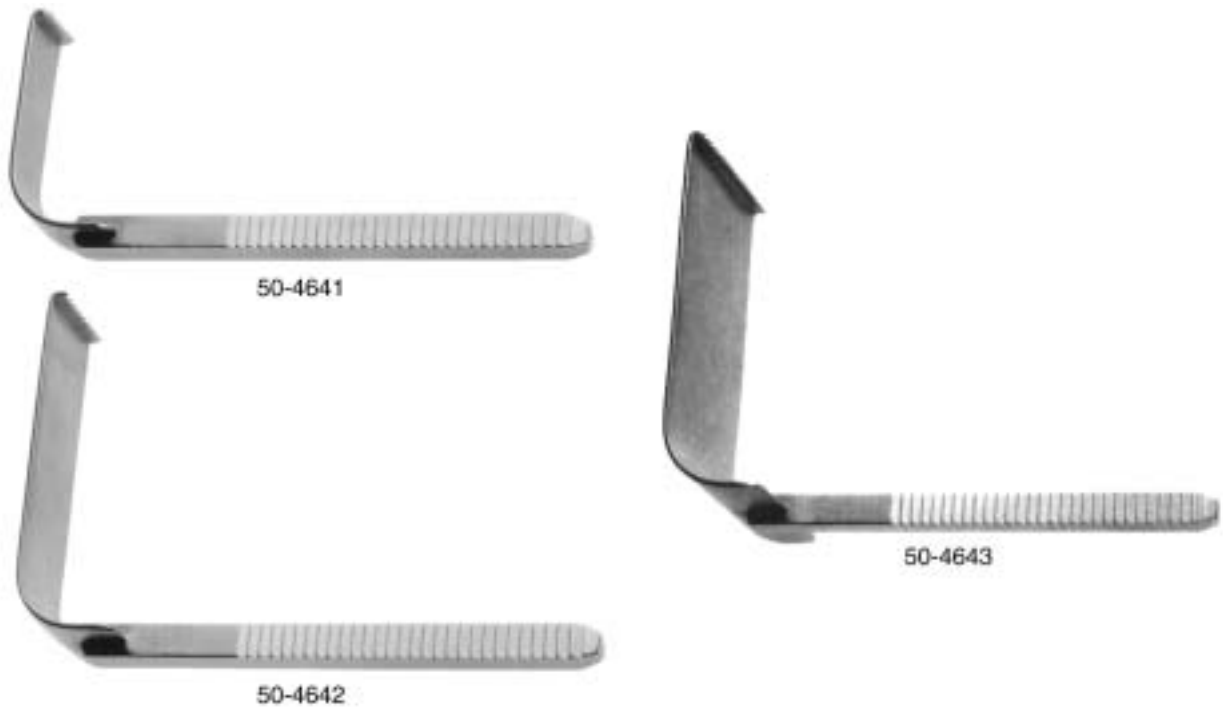
BOOKWALTER-SCOVILLE Hooks		
		Length
50-4639	Small	2" (50mm)
50-4640	Large	3¼" (83mm)



50-4640

RETRACTORS

TABLE-FIXED, BOOKWALTER SPINAL

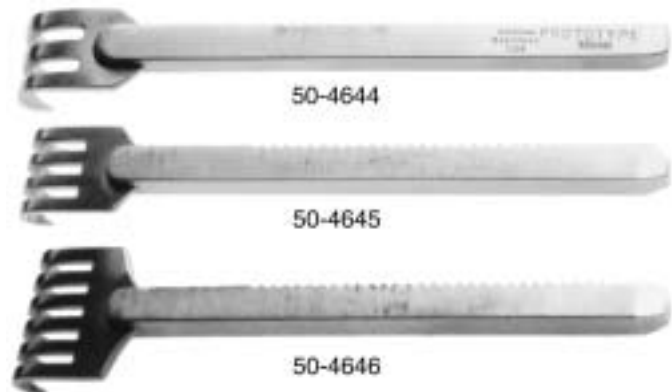


BOOKWALTER-MEYERDING Retractor Blades

		Length	Width
50-4641	Small	2 $\frac{1}{8}$ " (6cm)	$\frac{2}{3}$ " (17mm)
50-4642	Medium	3 $\frac{1}{8}$ " (8.5cm)	1" (25mm)
50-4643	Large	3 $\frac{3}{4}$ " (9.5cm)	2" (50mm)

BOOKWALTER Rake Retractors

		Depth	Width
50-4644	3 Prongs	$\frac{3}{4}$ " (19mm)	$\frac{2}{3}$ " (17mm)
50-4645	4 Prongs	$\frac{1}{3}$ " (8.4mm)	$\frac{3}{4}$ " (19mm)
50-4646	6 Prongs	$\frac{1}{3}$ " (8.4mm)	1" (25mm)



RETRACTORS

TABLE-FIXED, BOOKWALTER SPINAL



50-4647	BOOKWALTER Spinal Retractor storage/sterilizing case		
	Length	19½"	(50cm)
	Width	13½"	(34cm)
	Depth	4"	(10cm)

RONGEURS

BONE, SINGLE ACTION



53-1040	ADSON Cranial Rongeur, straight.		
	Bite		(8mm)
	Length	8"	(203mm)

RONGEURS BONE, SINGLE ACTION

53-1035	BACON Cranial Rongeur, angular.
Bite	$\frac{3}{16}$ " (5mm)
Length	$7\frac{3}{4}$ " (197mm)



53-1030	DE VILBISS Cranial Rongeur, with one extra blade.
Length	$8\frac{1}{16}$ " (205mm)

53-1108	LEMPERT Rongeur, straight.
Bite	$\frac{1}{16}$ " (2mm)
Length	$6\frac{1}{8}$ " (156mm)



SPINE

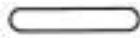
RONGEURS BONE, SINGLE ACTION



30-1310	LISTON Bone Cutting Forceps		
	Length	5½"	(140mm)



	LUER Bone Rongeurs		
	Bite	¼"	(6mm)
	Length	7"	(178mm)
53-1010	Straight		
53-1011	Curved		



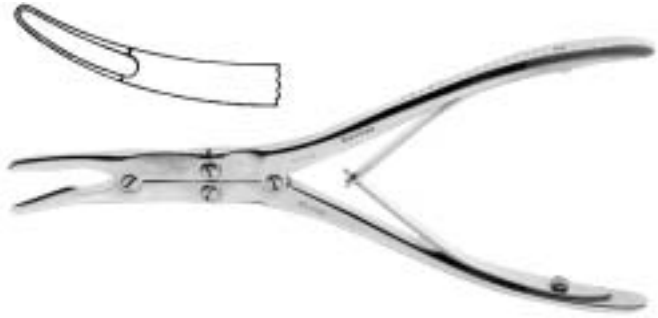
	REINER Bone Rongeurs, curved.		
	Length	7"	(178mm)
53-1015	Bite		(3mm x 13mm)
53-1016	Bite		(4mm x 14mm)



53-1055	STOOKEY Cranial Rongeur, angular.		
	Bite		(3mm)
	Length	7¾"	(187mm)

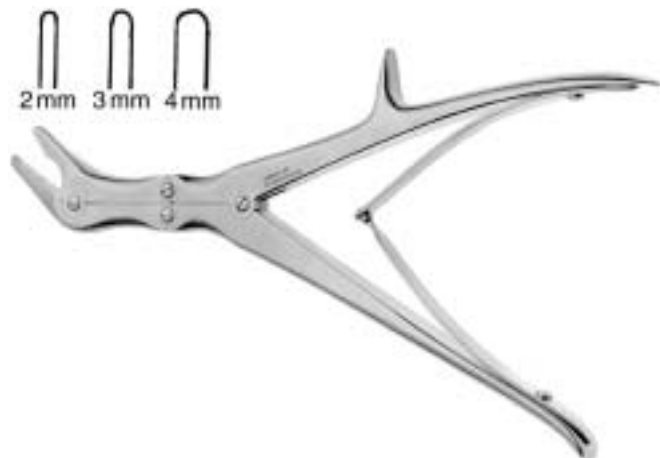
RONGEURS BONE, DOUBLE ACTION

53-1100 BEYER Rongeur, curved, double-action.
 Bite $\frac{1}{16}$ " (2.5mm)
 Length 7" (178mm)



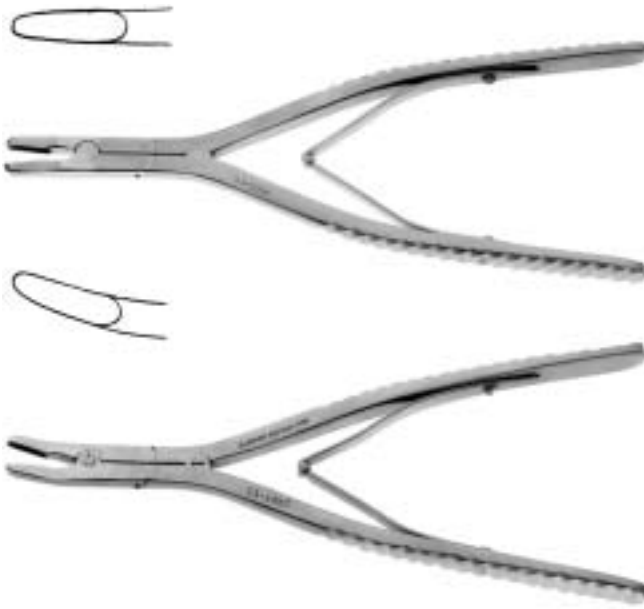
56-8040 DALE First Rib Rongeur, double-action.
 Bite $\frac{1}{8}$ " 3mm
 Length $14\frac{1}{2}$ " (368mm)

ECHLIN Laminectomy Rongeurs,
 double-action, angular
 Length $8\frac{3}{4}$ " (222mm)
53-1045 Bite 2mm
53-1046 Bite 3mm
53-1047 Bite 4mm

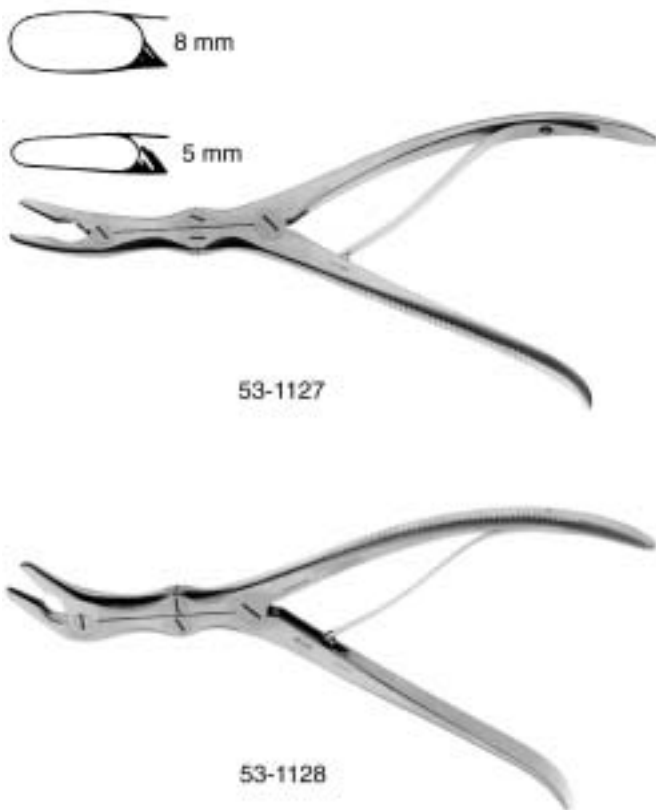


SPINE

RONGEURS BONE, DOUBLE ACTION



	FULTON Laminectomy Rongeurs, cup size 15mm x 16mm narrow blade, double-action.		
	Length	7½"	(191mm)
53-1060	Straight		
53-1061	Slight curved		
	Length	9½"	(241mm)
53-1066	Straight		
53-1067	Slightly curved		



	CODMAN LEKSELL Laminectomy Rongeurs, double-action.		
53-1125	Regular curve, wide jaw		
	Bite	8mm	
	Length	9"	(229mm)
53-1126	Full curve, wide jaw		
	Bite	8mm	
	Length	9"	(229mm)
53-1127	Regular curve, narrow jaw		
	Bite	5mm	
	Length	9"	(229mm)
53-1128	Full curve, narrow jaw		
	Bite	5mm	
	Length	9"	(229mm)

RONGEURS BONE, DOUBLE ACTION

30-1290 RUSKIN Bone Cutting Forceps, double-action.
Length 7¼" (184mm)



RUSKIN Bone Rongeurs, double-action.
Length 7¼" (184mm)
Bite (4mm x 33mm)
53-1310 Straight
53-1311 Curved
Bite (5mm x 33mm)
53-1312 Straight
53-1313 Curved



SMITH-PETERSEN Laminectomy Rongeurs, double-action.
Bite (4mm x 15mm)
Length 7½" (191mm)
53-1080 Straight
53-1081 Slightly curved
Length 9½" (241mm)
53-1083 Straight
53-1084 Slightly curved
53-1085 Full curved



SPINE

RONGEURS BONE, DOUBLE ACTION



STILLE-LISTON Bone Cutting Forceps,
double-action.
Length 10½" (267mm)
30-1295 Straight
30-1296 Curved



30-1298 STILLE-HORSLEY Bone Cutting Forceps,
double-action, curved shaft, angular jaw.
Length 10½" (267mm)

RONGEURS BONE, DOUBLE ACTION

	STILLE-LUER Rongeurs		
	Bite		10mm (216mm)
53-1130	Length	8½"	
	Straight		
53-1131	Curved		
	Bite		5mm (229mm)
53-1133	Length	9½"	
	Angular		
53-1118	Angular, flat lower jaw		



53-1095	ZAUFGAL-JANSEN Rongeur, double-action, curved.		
	Bite		(4mm x 30mm)
	Length	6¾"	(171mm)



SPINE

RONGEURS IVD



CODMAN Intervertebral Disc Rongeurs		
	Shaft length	7" (178mm)
53-1171	Cup	4x8mm
53-1220	Cup	6x10mm
53-1225	Cup	6x12mm



CODMAN Intervertebral Disc Rongeurs		
	Cup	6x10mm
	Shaft length	6" (152mm)
53-1221	Straight	
53-1222	Curved up	
53-1223	Curved down	



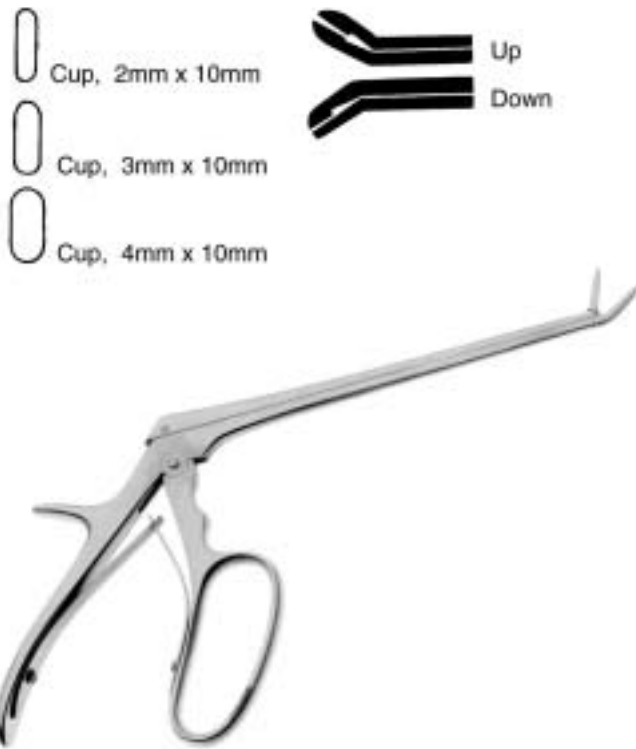
CUSHING Intervertebral Disc Rongeurs, cup shaped jaws.			
	Cup		2 x 10mm
53-1290	Straight		
	Shaft length	5"	(127mm)
53-1291	Curved up		
	Shaft length	5"	(127mm)
53-1292	Curved down		
	Shaft length	5"	(127mm)
53-1195	Straight		
	Shaft length	6"	(152mm)
53-1196	Curved up		
	Shaft length	6"	(152mm)
53-1197	Curved down		
	Shaft length	6"	(152mm)
53-1230	Straight		
	Shaft length	7"	(178mm)
53-1232	Curved up		
	Shaft length	7"	(178mm)
53-1233	Curved down		
	Shaft length	7"	(178mm)



DELICATE Intervertebral Disc Rongeurs			
	Cup		3 x 10mm
	Shaft length	6"	(152mm)
53-1250	Straight		
53-1251	Curved up		
53-1252	Curved down		



RONGEURS IVD



FERRIS SMITH Intervertebral Disc Rongeurs	
Shaft length	7" (178mm)
Cup	2x10mm
53-1159	Straight
53-1160	Curved up
53-1161	Curved down
	Cup
	3x10mm
53-1162	Straight
53-1163	Curved up
53-1164	Curved down
	Cup
	4x10mm
53-1165	Straight
53-1166	Curved up
53-1167	Curved down



53-1224	HOEN Intervertebral Disc Rongeur, fenestrated jaws.
	Cup (4mm x 12mm)
	Shaft length 5½" (140mm)

LOVE-GRUENWALD Intervertebral Disc

Rongeurs, cup shaped jaws.

	Cup		3 x 10mm
53-1295	Straight	Shaft length	5" (127mm)
53-1296	Curved up		
53-1297	Curved down		
53-1200	Straight	Shaft length	6" (152mm)
53-1201	Curved up		
53-1202	Curved down		
53-1235	Straight	Shaft length	7" (178mm)
53-1236	Curved up		
53-1237	Curved down		



53-1262	OLDBERG Intervertebral Disc Rongeur		
	Cup		6mm
	Shaft length	7"	(178mm)

RONGEURS IVD



53-1255	PEAPOD Intervertebral Disc Rongeur, curved up.	
	Cup	2x6mm
	Shaft length	5½" (140mm)



	SCHLESINGER Intervertebral Disc Rongeurs, straight, serrated cup jaws.	
	Shaft length	6" (152mm)
53-1190	Cup	2 x 10mm
53-1191	Cup	3 x 10mm
53-1192	Cup	4 x 10mm

RONGEURS IVD

	SELVERSTONE Intervertebral Disc Rongeurs, straight.		
	Shaft length	6"	(152mm)
53-1325	Cup		2 x 3mm
53-1326	Cup		2 x 5mm



53-1258	SPENCE Intervertebral Disc Rongeur, fenestrated jaws, straight.		
	Cup		3 x 10mm
	Shaft length	6½"	(165mm)


3mm x 10mm



SPINE

RONGEURS IVD



SPURLING Intervertebral Disc Rongeurs		
	Cup	4 x 10mm
	Shaft length	5" (127mm)
53-1300	Straight	
	Shaft length	6" (152mm)
53-1210	Straight	
53-1211	Curved up	
53-1212	Curved down	
	Shaft length	7" (178mm)
53-1240	Straight	
53-1241	Curved up	
53-1242	Curved down	



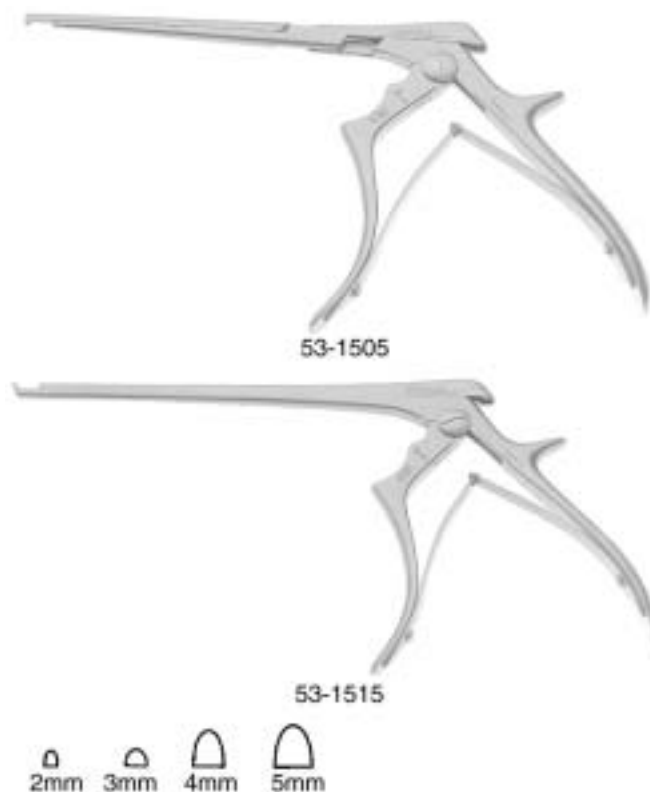
WILDE Intervertebral Disc Rongeurs, straight shaft.		
	Shaft length	5½" (140mm)
53-1280	No. 1	(5.0mm x 15mm)
53-1281	No. 2	(5.2mm x 15mm)
53-1282	No. 3	(6.0mm x 15mm)

RONGEURS CERVICAL KERRISON

CLASSIC Thin Footplate Cervical Kerrison Rongeur

Thin footplate designed to easily fit under the cervical lamina. Gold screw for easy identification of thin footplate. Bite size is identified below gold screw. Hardy style handle with ball spring.

	Bite Size	Angle	Shaft Length
53-1500	2mm	40° up	6" (152mm)
53-1501	2mm	90° up	6" (152mm)
53-1502	2mm	90° dn	6" (152mm)
53-1503	3mm	40° up	6" (152mm)
53-1504	3mm	90° up	6" (152mm)
53-1505	3mm	90° dn	6" (152mm)
53-1506	4mm	40° up	6" (152mm)
53-1507	4mm	90° up	6" (152mm)
53-1508	4mm	90° dn	6" (152mm)
53-1509	5mm	40° up	6" (152mm)
53-1510	5mm	90° up	6" (152mm)
53-1511	5mm	90° dn	6" (152mm)
53-1512	2mm	40° up	7" (178mm)
53-1513	2mm	90° up	7" (178mm)
53-1514	2mm	90° dn	7" (178mm)
53-1515	3mm	40° up	7" (178mm)
53-1516	3mm	90° up	7" (178mm)
53-1517	3mm	90° dn	7" (178mm)
53-1518	4mm	40° up	7" (178mm)
53-1519	4mm	90° up	7" (178mm)
53-1520	4mm	90° dn	7" (178mm)
53-1521	5mm	40° up	7" (178mm)
53-1522	5mm	90° up	7" (178mm)
53-1523	5mm	90° dn	7" (178mm)
53-1524	2mm	40° up	8" (203mm)
53-1525	2mm	90° up	8" (203mm)
53-1526	2mm	90° dn	8" (203mm)
53-1527	3mm	40° up	8" (203mm)
53-1528	3mm	90° up	8" (203mm)
53-1529	3mm	90° dn	8" (203mm)
53-1530	4mm	40° up	8" (203mm)
53-1531	4mm	90° up	8" (203mm)
53-1532	4mm	90° dn	8" (203mm)
53-1533	5mm	40° up	8" (203mm)
53-1534	5mm	90° up	8" (203mm)
53-1535	5mm	90° dn	8" (203mm)



RONGEURS KERRISON

◻ 51-1085
◻ 51-1086
◻ 51-1087
◻ 51-1088



	CODMAN Laminectomy Rongeurs, 40° angle.	
	Shaft length	6 $\frac{7}{8}$ (175mm)
51-1085	Bite	3mm
51-1086	Bite	5mm
	Shaft length	8 (203mm)
51-1087	Bite	3mm
51-1088	Bite	5mm



	FERRIS SMITH-KERRISON Laminectomy Rongeurs	
	Bite	5mm
	Shaft length	7 $\frac{1}{2}$ " (191mm)
53-1157	Up biting	
53-1158	Down biting	

CODMAN KERRISON Laminectomy Rongeurs			
Up biting			
53-1370	Shaft length	6"	(152mm)
53-1371	Bite		3mm
53-1371	Bite		5mm
53-1372	Shaft length	7½"	(191mm)
53-1372	Bite		3mm
53-1373	Bite		5mm
Down biting			
53-1374	Shaft length	6"	(152mm)
53-1374	Bite		3mm
53-1375	Bite		5mm
53-1376	Shaft length	7½"	(191mm)
53-1376	Bite		3mm
53-1377	Bite		5mm

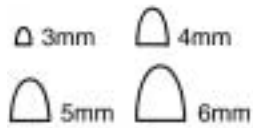


CODMAN KERRISON Laminectomy Rongeurs			
40° Up biting			
53-1385	Shaft length	6"	(152mm)
53-1385	Bite		3mm
53-1386	Bite		5mm
53-1387	Shaft length	7½"	(191mm)
53-1387	Bite		3mm
53-1388	Bite		5mm



SPINE

RONGEURS KERRISON



CODMAN Lumbar KERRISON Rongeurs HARDY style handle with ball spring

	Bite Size	Angle	Shaft Length
53-1402	3mm	40° up	7" (178mm)
53-1403	3mm	90° up	7" (178mm)
53-1404	3mm	90° dn	7" (178mm)
53-1405	4mm	40° up	7" (178mm)
53-1406	4mm	90° up	7" (178mm)
53-1407	4mm	90° dn	7" (178mm)
53-1408	5mm	40° up	7" (178mm)
53-1409	5mm	90° up	7" (178mm)
53-1410	5mm	90° dn	7" (178mm)
53-1411	6mm	40° up	7" (178mm)
53-1412	6mm	90° up	7" (178mm)
53-1413	6mm	90° dn	7" (178mm)
53-1414	3mm	40° up	8" (203mm)
53-1415	3mm	90° up	8" (203mm)
53-1416	3mm	90° dn	8" (203mm)
53-1417	4mm	40° up	8" (203mm)
53-1418	4mm	90° up	8" (203mm)
53-1419	4mm	90° dn	8" (203mm)
53-1420	5mm	40° up	8" (203mm)
53-1421	5mm	90° up	8" (203mm)
53-1422	5mm	90° dn	8" (203mm)
53-1423	6mm	40° up	8" (203mm)
53-1424	6mm	90° up	8" (203mm)
53-1425	6mm	90° dn	8" (203mm)
53-1426	3mm	40° up	11" (279mm)
53-1427	4mm	40° up	11" (279mm)
53-1428	5mm	40° up	11" (279mm)
53-1429	6mm	40° up	11" (279mm)



RANEY Laminectomy Rongeurs

	Bite		7mm
51-1065	Shaft length	6"	(152mm)
51-1066	Shaft length	7½"	(191mm)

CODMAN SCHLESINGER Cervical Laminectomy Rongeurs

	Shaft length	6"	(152mm)
	Up biting		
53-1380	Bite		3mm
53-1381	Bite		5mm
	Down biting		
53-1382	Bite		3mm
53-1383	Bite		5mm



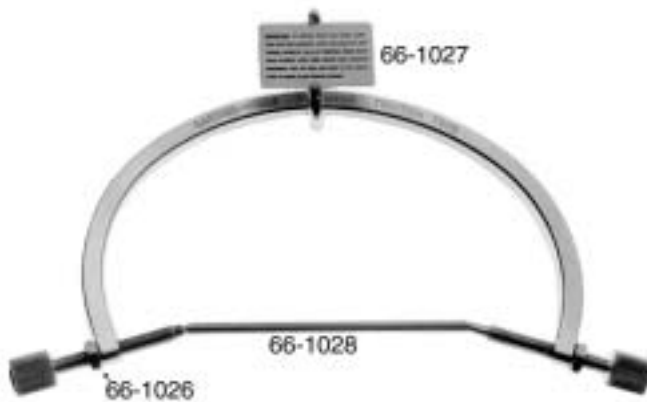
SHIVERS, RONGEURS



MICROSECT™ Shavers are uniquely designed rongeurs, which shave bone from the underside of the lamina or facet joint without destroying the natural architecture of either structure. Also, due to the thinness of the footplate, the MICROSECT Shaver allows access to compromised neural areas when exposure is otherwise difficult to obtain.

- 47-5030** MICROSECT Shaver 1.5mm
45° Up Bite 8½ Shaft
- 47-5031** MICROSECT Shaver 2.0mm
45° Up Bite 8½ Shaft
- 47-5032** MICROSECT Shaver 2.5mm
45° Up Bite 8½ Shaft
- 47-5033** MICROSECT Shaver 3.0mm
45° Up Bite 8½ Shaft
- 47-5034** MICROSECT Shaver 4.0mm
45° Up Bite 8½ Shaft

SKULL TONGS



- 66-1025** GARDNER-WELLS Skull Tong with one spring-loaded point for cervical traction.
Maximum opening 6¼" (159mm)
Includes:
- 66-1026** Adjustment nut (sold each).
- 66-1027** S-Hook
- 66-1028** Test Bar

SPANNERS/DISTRACTORS

46-3040 CODMAN Cervical Spanner Set of 6 with Case designed to directly measure the height of the interspace, access soft tissue tension and distract the interspace.

	Set Includes:	Spanner Width
46-3041	Cervical Spanner	5mm
46-3042	Cervical Spanner	6mm
46-3043	Cervical Spanner	7mm
46-3044	Cervical Spanner	8mm
46-3045	Cervical Spanner	9mm
46-3046	Cervical Spanner	10mm
46-3047	Case for Cervical Spanners	



46-3030 CODMAN Lumbar Spanner, Feeler Gauge and Distraction designed to directly measure the height of the interspace, access soft tissue tension and distract the interspace.

	Set Includes:	Spanner Width
46-3031	Lumbar Spanner	9mm
46-3032	Lumbar Spanner	10mm
46-3033	Lumbar Spanner	11mm
46-3034	Lumbar Spanner	12mm
46-3035	Lumbar Spanner	13mm
46-3036	Lumbar Spanner	14mm
46-3037	Case for Lumbar Spanners	



SPINE

SPREADERS



	INGE Lamina Spreaders		
61-2516	Total jaw opening	1¼"	(32mm)
	Length	6¼"	(159mm)
61-2515	Total jaw opening	2½"	(64mm)
	Length	9½"	(241mm)



61-2525	LAMINA Spreader		
	Total jaw opening	2"	(51mm)
	Length	9½"	(241mm)

SPONDYLOPHYTE IMPACTION

- 46-3002** LUMBAR SPONDYLOPHYTE IMPACTION SET
 The impaction set is surgeon designed to correct symptomatic spondylophytes. Complementary instruments have been assembled in a set to meet expected indications. Additional (optional) support instruments are available for broader indications. The set includes one (each) of the following:
- 46-3003** Sterilizing O.R. Display Case
46-3005 Silver Bayonet Dural Suction Retractor
 Macro tip $\frac{7}{16}$ " (10mm)
46-3006 Annular Dissector Perforator
46-3007 Offset Central Canal Impactor
46-3009 Lateral Gutter Impactor
46-3012 Black 90° Dural Suction Retractor
 Micro tip $\frac{5}{16}$ " (8mm)



- 46-3003** STERILIZING O. R. DISPLAY CASE
 Spondylophyte Impaction Set.
 Designed to house impaction set and/or ancillary instruments: three straight handled instruments and a bayonet (black or silver) Dural Suction Retractor;
 or:
 four straight handled instruments and a black 90° Dural Suction Retractor. Keeper Blade holds instruments in place
 Length: 10" (25cm)
 Width: 4½" (11cm)
 Thickness: 5/8" (16mm)

- 46-3005** SILVER Bayonet Dural Suction Retractor (Macro Tip)
 Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Reflective finish to benefit small wound (microdissectomy) surgery.
- | | | |
|-----------|-----------------|----------|
| Length | 9" | (22.5cm) |
| Tip width | $\frac{3}{8}$ " | (9.5mm) |
| Tip depth | $\frac{1}{4}$ " | (6mm) |



SPINE

SPONDYLOPHYTE IMPACTION



-
- 46-3006** ANNULAR Dissector Perforator
Used to reduce annular bulge following discectomy; depressing it into the interspace to enhance and assist in removal of recalcitrant nucleus. May serve to dissect scar tissue from dural sac. Atraumatic tip geometry.
- | | | |
|-------------|--|--------|
| Length: | 8 $\frac{3}{4}$ " | (22cm) |
| Tip length: | $\frac{1}{2}$ " | (13mm) |
| Tip tapers | $\frac{1}{4}$ " (6mm) to $\frac{1}{8}$ " (3mm) | |
-



-
- 46-3007** OFFSET Central Canal Impactor (Standard)
Used to impact symptomatic spondylophytes. Placed beneath and clear of neurostructures. Slip resistant, textured impaction surface is held perpendicular to surrounding bone planes and impacted with a mallet. Used to impact symptomatic spondylophytes. Placed beneath and clear of neurostructures. Slip resistant, textured impaction surface is held perpendicular to surrounding bone planes and impacted with a mallet.
- | | | |
|------------|-------------------|--------|
| Length | 8 $\frac{3}{4}$ " | (22cm) |
| Tip length | $\frac{7}{16}$ " | (10mm) |
| Tip width | $\frac{7}{32}$ " | (5mm) |
-



-
- 46-3009** LATERAL Gutter Impactor
Used to impact symptomatic spondylophytes. Placed beneath and clear of neurostructures. Slip resistant, textured impaction surface is held perpendicular to surrounding bone planes and impacted with a mallet.
- | | | |
|-----------|-------------------|---------|
| Length | 8 $\frac{3}{4}$ " | (220mm) |
| Tip depth | $\frac{1}{2}$ " | (5mm) |
| Tip width | $\frac{7}{32}$ " | (13mm) |
-

SPONDYLOPHYTE IMPACTION

- 46-3012** 90° DURAL Suction Retractor, Black (Micro)
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Blackened to reduce glare.
- | | | |
|------------------|----------------------------------|---------|
| Working distance | 4 ³ / ₄ " | (120mm) |
| Handle length | 4 ⁵ / ₈ " | (117mm) |
| Tip width | 9 ³ / ₃₂ " | (8mm) |
| Tip depth | 1 ¹ / ₄ " | (6mm) |



- 46-3008** CENTRAL Canal Impactor 30°
Used to impact symptomatic spondylophytes, placed beneath and clear of neurostructures, slip resistant, textured impaction surface is held perpendicular to surrounding bone planes and impacted with a mallet. Tip oriented 30° from vertical.
- | | | |
|------------|----------------------------------|--------|
| Length | 8 ³ / ₄ " | (22cm) |
| Tip length | 1 ¹ / ₂ " | (13mm) |
| Tip width | 7 ¹ / ₃₂ " | (7mm) |



SPINE

SPONDYLOPHYTE IMPACTION



- 46-3020** CODMAN Micro Impactor Set
The set includes:
- | | | |
|--|----------|--------------|
| Length | 7" | (18cm) |
| 46-3021 Micro Offset Central Canal Impactor | Tip size | .17" (4.3mm) |
| 46-3022 Micro Lateral Gutter Impactor | Tip size | .37" (9.4mm) |



- 46-3021** MICRO Offset Central Canal Impactor
Designed for spondylophyte impaction within a limited exposure; and, within neuroforamina. Slip resistant textured impaction surface is held perpendicular to surrounding bone planes and impacted with mallet.
- | | | |
|------------|-------|---------|
| Length | 7" | (178mm) |
| Tip length | 1/4" | (6mm) |
| Tip width | 5/32" | (4mm) |



- 46-3022** Micro Lateral Gutter Impactor
Designed for Spondylophyte impaction within a limited exposure and within neuroforamina. Slip resistant textured impaction surface is held perpendicular to surrounding bone planes and impacted with mallet.
- | | | |
|-----------|-------|---------|
| Length | 7" | (178mm) |
| Tip depth | 5/16" | (8mm) |
| Tip width | 5/32" | (4mm) |

TRANSORAL INSTRUMENTS CROCKARD

- 50-1670** CROCKARD* Transoral Instrument Set
Coordinated set of instruments used to approach a large area of pathology from the sphenoid to the C₃ vertebra via the transoral technique.
Set Includes:
Quantity
- 50-1651** 1 ea. CROCKARD Transoral Retractor Body
50-1652 1 ea. CROCKARD Large Tongue Retractor Blade
50-1653 1 ea. CROCKARD Small Tongue Retractor Blade
50-1654 2 ea. CROCKARD 90° Retractor Blade
50-1655 2 ea. CROCKARD Curved Retractor Blade
50-1656 2 ea. CROCKARD Retractor Blade Connector
50-1657 1 ea. CROCKARD Suction Tube Holder, Short
50-1658 1 ea. CROCKARD Suction Tube Holder, Long
50-1659 1 ea. CROCKARD Hard Palate Retractor
50-1660 1 ea. CROCKARD Pharyngeal Retractor, Small
50-1661 1 ea. CROCKARD Pharyngeal Retractor, Large
50-1662 1 ea. CROCKARD Odontoid Peg Grasping Forceps
50-1663 1 ea. CROCKARD Ligament Grasping Forceps
50-1664 CROCKARD Sterilizing/Storage Case



- 50-1651** CROCKARD Transoral Retractor Body
Length 6" (152mm)
Width 2¾" (70mm)



TRANSORAL INSTRUMENTS CROCKARD



	CROCKARD Tongue Retractor Blade	
50-1652	Length	6" (152mm)
	Large	
	Blade length	3.5" (91mm)
50-1653	Small	
	Blade length	3" (76mm)



50-1654	CROCKARD 90° Retractor Blade	
	Total length	5" (127mm)
	Blade length	1.5" (38mm)
	Blade width	.8" (20mm)



50-1655	CROCKARD Curved Retractor Blade	
	Total length	5" (127mm)
	Blade length	1½" (38mm)
	Tip width	½" (12mm)



50-1656	CROCKARD Retractor Blade Connector	
	Total Length	1¼" (31mm)
	Diameter	.28" (7mm)

TRANSORAL INSTRUMENTS CROCKARD

	CROCKARD Suction Tube Holder		
	Diameter	.28	(7mm)
50-1657	Short		
	Length	1½"	(38mm)
50-1658	Long		
	Length	2"	(50mm)



50-1657



50-1658

50-1659	CROCKARD Hard Palate Retractor		
	Total length	4¼"	(108mm)
	Tip width	1"	(25mm)



	CROCKARD Pharyngeal Retractor		
50-1660	Small		
	Length	7"	(177mm)
50-1661	Large		
	Length	7½"	(190mm)



TRANSORAL INSTRUMENTS CROCKARD



50-1662 CROCKARD Odontoid Peg Grasping Forceps
Length 9" (228mm)



50-1663 CROCKARD Ligament Grasping Forceps
Length 10" (254mm)



50-1664 CROCKARD Sterilizing/Storage Case
Length 18" (457mm)
Width 10½" (266mm)
Depth 7¼" (184mm)

TRANSORAL INSTRUMENTS CROCKARD

50-1665 CROCKARD Bayonet Micro-Dissector
10" (250mm) for transoral dissection, footplate
designed to dissect tissue and reduce
opportunity for dural penetration. Especially
useful in definition of apical and alar ligaments
and general dissection.
Length 10" (250mm)



50-1668 CROCKARD Mid-Facial Osteotomy Retractor
Plate
Uniquely and exclusively fashioned to function
with CROCKARD transoral instrument set (50-
1670); especially tongue retractor blades (50-
1692 and 15-1653) and retractor body (50-
1651). For surgery of middle and upper clivus
and transpalatal incisions. Retracts soft and
hard palate from skull as tongue blade retracts
hard palate downward.
Length 2½" (63mm)
Width 2" (50mm)
Width of opening 1¾" (44mm)



WIRE CUTTERS



56-2507 KIRSCHNER Wire Cutter, chrome plated.
Length 6¼" (159mm)



56-2510 CODMAN Wire Cutter
Length 7" (178mm)

CODMAN SOF'WIRE® Cable System

Designed for internal, bony fixation including sublaminar interspinous fixation, non-displaced fractures, maxillo facial surgery, sternotomy closure. Consists of SOF'WIRE Cables and a complete set of instruments for application.

SOF'WIRE Sterile Products:

Stainless Steel

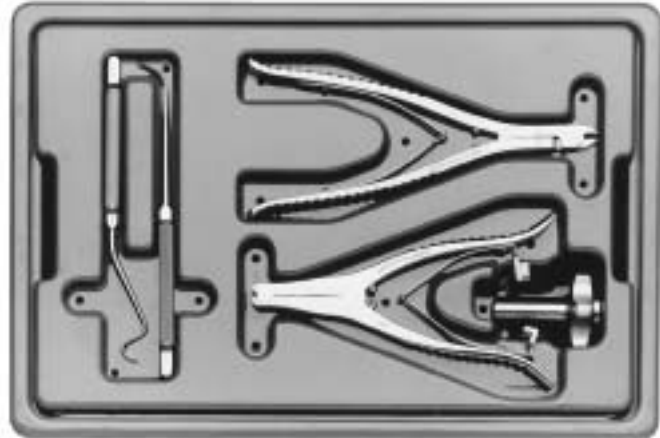
- 46-4038** SOF'WIRE Stainless Steel (10 each of 46-4018)
- 46-4019** SOF'WIRE Stainless Steel Single Cable with Leader, 1 Cinch and 1 Tightener
- 46-4021** SOF'WIRE Stainless Steel Double Cable with Central Leader, 2 Cinches and 2 Tighteners
- 46-4024** SOF'WIRE Stainless Steel Cinch Seat, 10 each

Titanium

- 46-4040** SOF'WIRE Titanium Single Cable with Leader, 1 Cinch and 1 Tightener
- 46-4043** SOF'WIRE Titanium (10 each of 46-4040)
- 46-4042** SOF'WIRE Titanium Double Cable with Central Leader, 2 Cinches and 2 Tighteners
- 46-4025** SOF'WIRE Titanium Cinch Seat, 10 each

46-4010 CODMAN SOF'WIRE Instrument Set includes:

- 46-4012** SOF'WIRE Torque Driver
- 46-4013** SOF'WIRE Cable Cutter
- 46-4014** SOF'WIRE Cinch Pliers
- 46-4100** CODMAN SOF'WIRE L-Curve Guide
- 46-4101** CODMAN SOF'WIRE S-Curve Guide
- 46-4011** SOF'WIRE Cable System Sterilization Tray



WIRE, SOF'WIRE



SOF'WIRE® Sterile Products:

- | | |
|----------------|---|
| | Stainless Steel |
| 46-4019 | SOF'WIRE Stainless Steel Single Cable with Leader, 1 Cinch and 1 Tightener |
| 46-4021 | SOF'WIRE Stainless Steel Double Cable with Central Leader, 2 Cinches and 2 Tighteners |
| 46-4024 | SOF'WIRE Stainless Steel Cinch Seat, 10 each |
| | Titanium |
| 46-4040 | SOF'WIRE Titanium Single Cable with Leader, 1 Cinch and 1 Tightener |
| 46-4043 | SOF'WIRE Titanium (10 each of 46-4040) |
| 46-4042 | SOF'WIRE Titanium Double Cable with Central Leader, 2 Cinches and 2 Tighteners |
| 46-4025 | SOF'WIRE Titanium Cinch Seat, 10 each |
-

WIRE, SOF'WIRE

46-4012 SOF'WIRE Torque Driver
Designed to be used with the disposable
CODMAN SOF'WIRE Tighteners (46-4018 and
46-3038) if additional torque is required.



46-4013 SOF'WIRE Cable Cutter
Used to cut CODMAN SOF'WIRE Cable.



46-4014 SOF'WIRE Cinch Pliers
Designed to crimp the cinch/cable construct
when using CODMAN SOF'WIRE Cable.

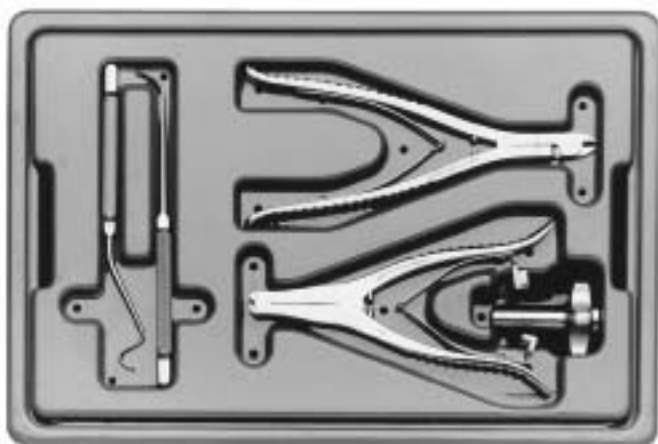


SPINE

WIRE, SOF'WIRE



-
- 46-4100** CODMAN SOF'WIRE Guides.
20cm (8") instrument designed to assist the cervical spine surgeon in protective wire passage of C2–C7 vertebrae. Atraumatic end designed to dissect impeding ligamentous tissue. Suture hole for wire fixation.
- 46-4101** 20cm (8") instrument designed to assist the cervical spine surgeon in protective wire passage of C1 vertebrae. Uniquely shaped for C1 wire passage. Atraumatic end designed to dissect impeding ligamentous tissue. Suture hole for wire fixation.
-



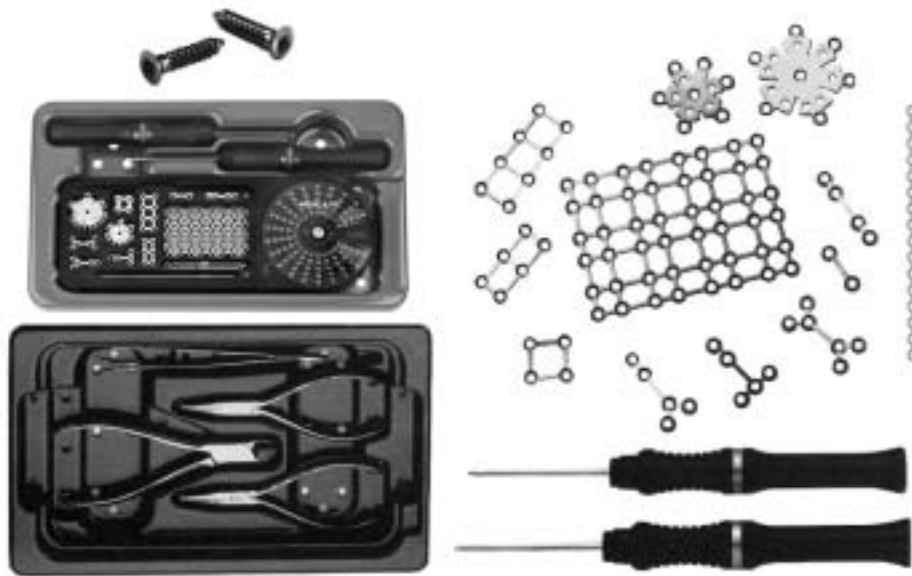
-
- 46-4011** CODMAN SOF'WIRE Cable Instrument Tray
For storage/sterilization.
(Instruments not included.)
-

ANEUROPLASTIC

43-1060 ANEUROPLASTIC* Kit, two complete sets consists of two bags sterile powder (net weight 30 grams each), two ampules sterile liquid (net contents 17 milliliters each), and two sterile matrix bags.



BIOPLATE



1.5mm BIOPLATE Neurosurgery Fixation System. Designed for neurosurgeons.

	Code #	Description
Plates		
1 pkg. of 5 ea.	81-2000	Straight, 2 Hole, Bar, 11mm
1 pkg. of 1 ea.	81-2001	Straight, 4 Hole, Bar, 19mm
1 pkg. of 1 ea.	81-2002	Y Plate, 5 Hole, Bar, 18mm
1 pkg. of 1 ea.	81-2003	X Plate, 6 Hole, Bar, 17mm
1 pkg. of 1 ea.	81-2004	T Plate, 5 Hole, Bar, 15mm
1 pkg. of 1 ea.	81-2005	Burr Cover, 6 Hole, 12mm, Flat-Rigid
1 pkg. of 1 ea.	81-2006	Burr Cover, 6 Hole, 18mm, Flat-Rigid
1 pkg. of 1 ea.	81-2053	Contoured Flexible Burr Hole Cover, 12mm
1 pkg. of 1 ea.	81-2054	Contoured Flexible Burr Hole Cover, 18mm
1 pkg. of 1 ea.	81-2055	Contoured Rigid Burr Hole Cover, 12mm
1 pkg. of 1 ea.	81-2056	Contoured Rigid Burr Hole Cover, 18mm
1 pkg. of 1 ea.	81-2007	Box Car, 4 Hole, 10 x 10mm
1 pkg. of 1 ea.	81-2008	Box Car, 6 Hole, 8 x 17mm
1 pkg. of 1 ea.	81-2009	Box Car, 8 Hole, 10 x 24mm
1 pkg. of 1 ea.	81-2010	Lattice, 48 Hole, 32 x 44mm
1 pkg. of 1 ea.	81-3018	Straight, 2 Hole, Bar, 11mm
1 pkg. of 1 ea.	81-3059	8 Hole Orbital Plate
1 pkg. of 1 ea.	81-3060	16 Hole Straight Plate
1 pkg. of 1 ea.	81-3180	Shunt Burr Hole Cover, 1.5mm
Self Drilling Screws		
1 pkg. of 1 ea.	81-2057	Self Drilling Screw, 1.5mm x 3mm
1 pkg. of 1 ea.	81-2058	Self Drilling Screw, 1.5mm x 4mm
1 pkg. of 1 ea.	81-2059	Self Drilling Screw, 1.5mm x 5mm
1 pkg. of 5 ea.	81-3087	Self Drilling Screw, 1.5mm x 3mm
1 pkg. of 5 ea.	81-3088	Self Drilling Screw, 1.5mm x 4mm
1 pkg. of 5 ea.	81-3089	Self Drilling Screw, 1.5mm x 5mm
1 pkg. of 1 ea.	81-3095	1.5mm Self-Drilling Screw Insert
Standard Screws		
1 pkg. of 5 ea.	81-2011	1.5mm screw-3mm
1 pkg. of 5 ea.	81-2012	1.5mm screw-4mm
1 pkg. of 5 ea.	81-2013	1.5mm screw-5mm
1 pkg. of 5 ea.	81-2014	1.5mm screw-6mm
1 pkg. of 5 ea.	81-2015	1.5mm screw-8mm
1 pkg. of 5 ea.	81-2016	1.5mm screw-10mm
1 pkg. of 5 ea.	81-2017	1.8mm screw-Emergency
1 pkg. of 1 ea.	81-3011	1.5mm screw-3mm
1 pkg. of 1 ea.	81-3012	1.5mm screw-4mm
1 pkg. of 1 ea.	81-3013	1.5mm screw-5mm
1 pkg. of 1 ea.	81-3014	1.5mm screw-6mm
1 pkg. of 1 ea.	81-3015	1.5mm screw-8mm
1 pkg. of 1 ea.	81-3016	1.5mm screw-10mm
1 pkg. of 1 ea.	81-3017	1.8mm screw-Emergency

Code #	Description
81-2021	1.5mm Screwdriver with Blade, Std.
81-2027	1.5mm Screwdriver Blade, Std.
81-3100	1.5mm Screwdriver with Blade, Large
81-3101	1.5mm Screwdriver Blade, Large
81-2022	Plate Bender
81-2023	Plate Cutter-Med.
81-2024	Forceps Angled
81-3105	Plate and Screw Container
81-3119	Sterilizing Container-Neuro

Instruments

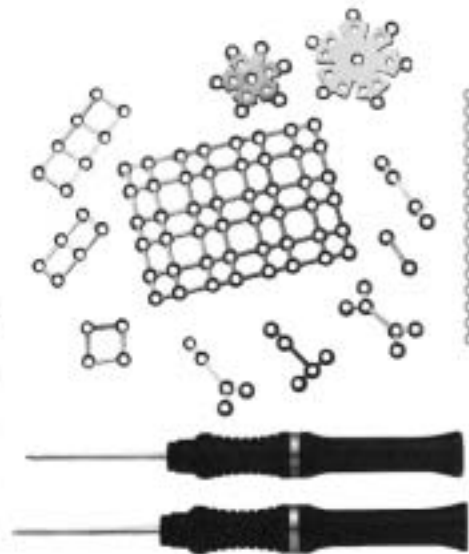
1 ea.	81-2021	1.5mm Screwdriver with Blade, Std.
1 ea.	81-2027	1.5mm Screwdriver Blade, Std.
1 ea.	81-3100	1.5mm Screwdriver with Blade, Large
1 ea.	81-3101	1.5mm Screwdriver Blade, Large
1 ea.	81-2022	Plate Bender
1 ea.	81-2023	Plate Cutter-Med.
1 ea.	81-2024	Forceps Angled
1 ea.	81-3105	Plate and Screw Container
1 ea.	81-3119	Sterilizing Container-Neuro

Drill Bits

1 ea.	81-2018	Drill Bit, 1.0mm, 4mm, standard low speed drill
1 ea.	81-2019	Drill Bit, 1.0mm, 6mm, standard low speed drill
1 ea.	81-2020	Drill Bit, 1.0mm, 10mm, standard low speed drill
1 ea.	81-3067	Drill Bit, 1.0mm, 4mm handpieces
1 ea.	81-3068	Drill Bit, 1.0mm, 6mm handpieces
1 ea.	81-3069	Drill Bit, 1.0mm, 10mm handpieces
1 ea.	81-3061	Drill Bit, 1.0mm, 4mm craniotomes
1 ea.	81-3062	Drill Bit, 1.0mm, 6mm craniotomes
1 ea.	81-3063	Drill Bit, 1.0mm, 10mm craniotomes
1 ea.	81-3073	Drill Bit, 1.0mm, 4mm long hand drill
1 ea.	81-3074	Drill Bit, 1.0mm, 6mm long hand drill
1 ea.	81-3077	Drill Bit, 1.0mm, 4mm Midas Rex Classic
1 ea.	81-3078	Drill Bit, 1.0mm, 6mm Midas Rex Classic
1 ea.	81-3079	Drill Bit, 1.0mm, 10mm Midas Rex Classic
1 ea.	81-3083	Drill Bit, 1.0mm, 4mm Midas Rex III
1 ea.	81-3084	Drill Bit, 1.0mm, 6mm Midas Rex III

BIO-100 Set

1 ea.	81-2027	BIO-100 Screw Driver Blade, STD
1 ea.	81-3175	BIO-100 1.5mm Tray Insert
5 ea.	81-3164	BIO-100 Screws, 1.5mm x 4.5mm
1 ea.	81-3165	BIO-100 Screws, 1.5mm x 4.5mm
5 ea.	81-3135	BIO-100 Two Hole Plate
1 ea.	81-3131	BIO-100 Two Hole Plate



1.9mm BIOPLATE Neurosurgery Fixation System.
Designed for neurosurgeons.

	Code #	Description
Plates		
1 pkg. of 5 ea.	81-3027	Straight Plate, 2 hole, 12mm
1 pkg. of 1 ea.	81-3028	Straight Plate, 4 hole, 20mm
1 pkg. of 1 ea.	81-3029	Y Plate, 5 Hole, 19mm
1 pkg. of 1 ea.	81-3030	X Plate, 6 Hole, 18mm
1 pkg. of 1 ea.	81-3031	T Plate, 5 Hole, 16mm
1 pkg. of 1 ea.	81-3032	Burr Hole Cover, 6 Hole, 12mm, Flat - Rigid
1 pkg. of 1 ea.	81-3033	Burr Hole Cover, 6 Hole, 18mm, Flat - Rigid
1 pkg. of 1 ea.	81-2046	Contoured Flexible Burr Hole Cover, 12mm
1 pkg. of 1 ea.	81-2047	Contoured Flexible Burr Hole Cover, 18mm
1 pkg. of 1 ea.	81-2048	Contoured Rigid Burr Hole Cover, 12mm
1 pkg. of 1 ea.	81-2049	Contoured Rigid Burr Hole Cover, 18mm
1 pkg. of 1 ea.	81-3034	Boxcar Plate, 4 Hole, 11 x 11mm
1 pkg. of 1 ea.	81-3035	Boxcar Plate, 6 Hole, 9 x 18mm
1 pkg. of 1 ea.	81-3036	Boxcar Plate, 8 Hole, 11 x 25mm
1 pkg. of 1 ea.	81-3048	Straight Plate, 2 Hole, 12mm
1 pkg. of 1 ea.	81-3161	Straight Plate, 16 Hole, 1.9mm
1 pkg. of 1 ea.	81-3181	Shunt Burr Hole Cover, 1.9mm
Standard Drilling Screws		
1 pkg. of 5 ea.	81-3037	1.9mm screw-3mm long
1 pkg. of 5 ea.	81-3038	1.9mm screw-4mm long
1 pkg. of 5 ea.	81-3039	1.9mm screw-5mm long
1 pkg. of 5 ea.	81-3040	1.9mm screw-6mm long
1 pkg. of 5 ea.	81-3041	1.9mm screw-8mm long
1 pkg. of 5 ea.	81-3042	1.9mm screw-10mm long
1 pkg. of 5 ea.	81-3043	2.3mm screw-5mm long Emergency
1 pkg. of 1 ea.	81-3049	1.9mm screw-3mm long
1 pkg. of 1 ea.	81-3050	1.9mm screw-4mm long
1 pkg. of 1 ea.	81-3051	1.9mm screw-5mm long
1 pkg. of 1 ea.	81-3052	1.9mm screw-6mm long
1 pkg. of 1 ea.	81-3053	1.9mm screw-8mm long
1 pkg. of 1 ea.	81-3054	1.9mm screw-10mm long
1 pkg. of 1 ea.	81-3055	2.3mm screw- 5mm long Emergency
Self Drilling Screws		
1 pkg. of 1 ea.	81-2050	Self Drilling Screw, 1.9mm x 3mm
1 pkg. of 1 ea.	81-2051	Self Drilling Screw, 1.9mm x 4mm
1 pkg. of 1 ea.	81-2052	Self Drilling Screw, 1.9mm x 5mm
1 pkg. of 5 ea.	81-3091	Self Drilling Screw, 1.9mm x 3mm
1 pkg. of 5 ea.	81-3092	Self Drilling Screw, 1.9mm x 4mm
1 pkg. of 5 ea.	81-3093	Self Drilling Screw, 1.9mm x 5mm
1 pkg. of 1 ea.	81-3096	1.9mm Self-Drilling Screw Insert

	Code #	Description
Instruments		
1 ea.	81-3046	1.9mm Screwdriver with Blade, Std.
1 ea.	81-2034	1.9mm Screwdriver Blade, Std.
1 ea.	81-3102	1.9mm Screwdriver with Blade, Large
1 ea.	81-3103	1.9mm Screwdriver Blade, Large
1 ea.	81-2022	Plate Bender
1 ea.	81-2023	Plate Cutter-Medium
1 ea.	81-2024	Forceps Angled
1 ea.	81-3109	Plate and Screw Container
1 ea.	81-3119	Sterilizing Container
Drill Bits		
1 ea.	81-2033	Drill bit 1.5mm, 4mm, standard low speed drill
1 ea.	81-3044	Drill bit 1.5mm, 6mm, standard low speed drill
1 ea.	81-3045	Drill bit 1.5mm, 10mm, standard low speed drill
1 ea.	81-3070	Drill bit 4.5mm, long handpieces
1 ea.	81-3071	Drill bit 6mm long handpieces
1 ea.	81-3072	Drill bit 10mm long handpieces
1 ea.	81-3064	Drill bit 4.5mm long craniotomes
1 ea.	81-3065	Drill bit 6mm long craniotomes
1 ea.	81-3066	Drill bit 10mm long craniotomes
1 ea.	81-3075	Drill bit 4.5mm long hand drill
1 ea.	81-3076	Drill bit 6mm long hand drill
1 ea.	81-3080	Drill bit 4.5mm long Midas Rex Classic
1 ea.	81-3081	Drill bit 6mm long Midas Rex Classic
1 ea.	81-3082	Drill bit 10mm long Midas Rex Classic
1 ea.	81-3085	Drill bit 4.5mm long Midas Rex III
1 ea.	81-3086	Drill bit 6mm long Midas Rex III
BIO-100 Set		
1 ea.	81-2033	BIO-100 Drill Bit 1.5mm x 4mm
1 ea.	81-2034	BIO-100 Screw Driver Blade 2mm
1 ea.	81-2035	BIO-100 Tray Insert
1 ea.	81-3019	BIO-100 Screw 1.9mm x 4.5mm
5 ea.	81-2036	BIO-100 Screws, 2mm x 4mm
1 ea.	81-3020	BIO-100 Two Hole Plate
5 ea.	81-2037	BIO-100 Two Hole Plate

**NEUROSURGERY
MICROSURGERY**

CRANIOPLASTIC



43-1050 CRANIOPLASTIC* Kit, two complete sets, consists of two bags sterile powder (net weight 30 grams each), two vials sterile liquid (net contents 17 milliliters each) and two sterile matrix bags.



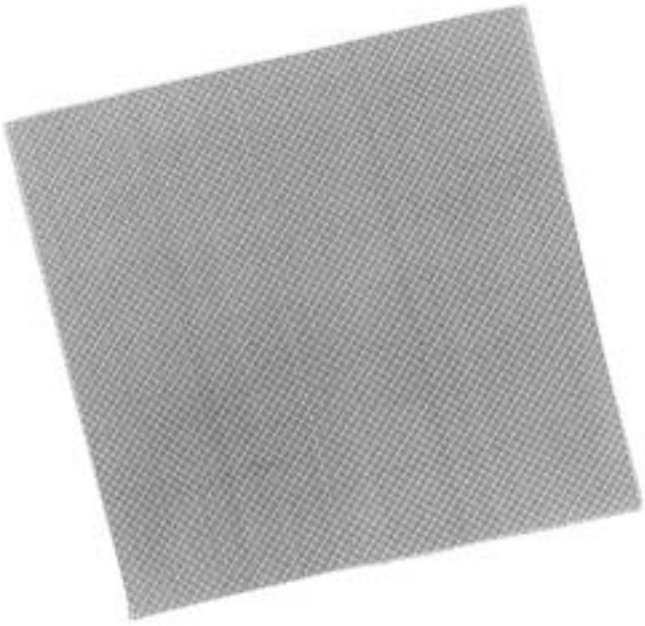
43-1006 SPENCE Cranioplastic Roller

CRANIOPLASTIC TITANIUM MESH

43-1007 CARBORUNDUM Grinding Wheel, Jacobs fitting.



43-1022 TITANIUM Mesh
Sterile
Titanium Mesh is indicated for use with methyl methacrylate formulated for cranioplasty.
Size 6"x 6" (15cm x 15cm)
Wire diameter .010" (31g)
Mesh per inch 24 x 24



ANEURYSM CLIPS McFADDEN VARI-ANGLE

20-1276 McFADDEN VARI-ANGLE Lightweight Aneurysm Clip Applier, Bayonet
Used with McFADDEN VARI-ANGLE Aneurysm Clips (20-1250 through 20-1413).
Hemispherical contact made with MRI compatible MP35N alloy.
Length 9³/₈" (238mm)
Working distance 4¹/₂" (114mm)
Jaw 10° tapered up
Weight 2 oz.



ANEURYSM CLIPS

McFADDEN VARI-ANGLE



McFADDEN VARI-ANGLE Aneurysm Clip Tray #1 and #2 (80-1828 and 80-1829) are designed for inventory, storage, and sterilization of all 77 VARI-ANGLE McFADDEN Aneurysm Clips.

	Size
80-1828 #1	McFADDEN VARI-ANGLE Aneurysm Clip Tray
80-1829 #2	McFADDEN VARI-ANGLE Aneurysm Clip Tray

Each Tray will hold the following clips:

CLIP TRAY #1		CLIP TRAY #1 (Continued)		CLIP TRAY #2 (Continued)	
	Blade Length		Blade Length		Blade Length
Straight		Slightly Curved		Fenestrated 45°, 4mm Opening	
20-1250	5mm	20-1261	8mm	20-1370	6mm
20-1251	7mm	20-1262	10mm	20-1371	9mm
20-1252	9mm	20-1264	12mm	20-1372	12mm
20-1253	12mm	20-1265	14mm	20-1373	16mm
20-1263	15mm	20-1306	16mm	20-1374	20mm
20-1300	20mm	20-1307	20mm	20-1375	24mm
20-1301	25mm				
		CLIP TRAY #2		Fenestrated 45°, 5mm Opening	
Forward Angle		Fenestrated 90°, 4mm Opening		20-1380	6mm
20-1259	7mm	20-1390	6mm	20-1381	9mm
20-1260	9mm	20-1391	9mm	20-1382	12mm
20-1304	12mm	20-1392	12mm	20-1383	16mm
20-1305	15mm	Fenestrated 90°, 5mm Opening		20-1384	20mm
Bayonet		20-1395	6mm	20-1385	24mm
20-1269	7mm	20-1396	9mm	Fenestrated Bayonet, 5mm Opening	
20-1270	9mm	20-1397	12mm	20-1410	6mm
20-1311	12mm	Fenestrated 90°, 6mm Opening		20-1411	9mm
20-1312	15mm	20-1398	6mm	20-1412	12mm
Curved		20-1399	9mm	20-1413	15mm
20-1254	6mm	20-1400	12mm	Right Angle	
20-1255	8mm	Fenestrated, Straight, 4mm Opening		20-1256	5mm
20-1266	10mm	20-1350	6mm	20-1271	7.5mm
20-1267	12mm	20-1351	9mm	20-1268	10mm
Sideward Angle		20-1352	12mm	20-1271	15mm
20-1257	7mm	20-1353	16mm	Forward Curve	
20-1258	9mm	20-1354	20mm	20-1308	8mm
20-1302	12mm	20-1355	24mm	20-1309	12mm
20-1303	15mm	Fenestrated, Straight, 5mm Opening		20-1310	16mm
Bayonet Forward Curved		20-1360	6mm		
20-1280	7mm R	20-1361	9mm		
20-1281	7mm L	20-1362	12mm		
20-1282	9mm R	20-1363	16mm		
20-1283	9mm L	20-1364	20mm		
		20-1365	24mm		

ANEURYSM CLIPS

McFADDEN VARI-ANGLE

CROCKARD Orbiting Appliers designed to apply McFADDEN VARI-ANGLE ANEURYSM Clips (20-1250 through 20-1431) during intracranial or Transoral Transclival aneurysm surgery.

Shaft can be rotated 360°.

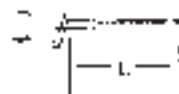
McFADDEN VARI-ANGLE Clips can be angled over 290° range.

Shaft Length

20-5220	5½"	(14cm)
20-5221	10"	(25.5cm)



McFADDEN VARI-ANGLE Aneurysm Clips, single piece construction, non-magnetic, MRI compatible, MP35N alloy, double coiled spring, strong closing pressure, 180 rotation facilitates placement of clip. Rounded jaws, well-defined serrations. Use 20-1276 McFADDEN VARI-ANGLE Clip Applying Forceps only with the McFADDEN VARI-ANGLE Clips.



Straight Clips

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
20-1250	1.5mm	5mm	5mm
20-1251	1.5mm	7mm	6mm
20-1252	1.5mm	9mm	7mm
20-1253	1.5mm	12mm	8mm
20-1263	1.5mm	15mm	9mm
20-1300	1.5mm	20mm	10mm
20-1301	1.5mm	25mm	11mm

McFADDEN VARI-ANGLE Aneurysm Clips, Slightly Curved Clips

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
20-1261	1.5mm	8mm	7mm
20-1262	1.5mm	10mm	7mm
20-1264	1.5mm	12mm	7mm
20-1265	1.5mm	14mm	7mm
20-1306	1.5mm	16mm	9mm
20-1307	1.5mm	20mm	10mm



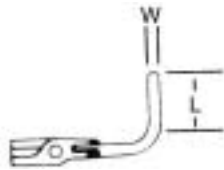
ANEURYSM CLIPS

McFADDEN VARI-ANGLE



McFADDEN VARI-ANGLE Aneurysm Clips,
Curved

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
20-1254	1.5mm	6mm	6mm
20-1255	1.5mm	8mm	6mm
20-1266	1.5mm	10mm	7mm
20-1267	1.5mm	12mm	8mm



McFADDEN VARI-ANGLE Aneurysm Clips,
Right Angle

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
20-1256	1.5mm	5mm	6mm
20-1271	1.5mm	7.5mm	6mm
20-1268	1.5mm	10mm	6mm
20-1272	1.5mm	15mm	6mm



McFADDEN VARI-ANGLE Aneurysm Clips,
Forward Curve

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
20-1308	1.5mm	8mm	5mm
20-1309	1.5mm	12mm	6mm
20-1310	1.5mm	16mm	6mm



McFADDEN VARI-ANGLE Aneurysm Clips,
30° Forward Angle

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
20-1259	1.5mm	7mm	6mm
20-1260	1.5mm	9mm	6mm
20-1304	1.5mm	12mm	7mm
20-1305	1.5mm	15mm	7mm

ANEURYSM CLIPS

McFADDEN VARI-ANGLE

McFADDEN VARI-ANGLE Aneurysm Clips, Sideward Angle



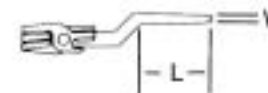
	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
20-1257	1.5mm	7mm	6mm
20-1258	1.5mm	9mm	7mm
20-1302	1.5mm	12mm	8mm
20-1303	1.5mm	15mm	9mm

McFADDEN VARI-ANGLE Aneurysm Clips, Bayonet Straight



	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
20-1269	1.5mm	7mm	7mm
20-1270	1.5mm	9mm	7mm
20-1311	1.5mm	12mm	8mm
20-1312	1.5mm	15mm	8mm

McFADDEN VARI-ANGLE Aneurysm Clips, Bayonet 30° Curved Forward Angle



	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
20-1280	1.5mm	7 Bay Rt.	5mm
20-1281	1.5mm	7 Bay Lt.	5mm
20-1282	1.5mm	9 Bay Rt.	5mm
20-1283	1.5mm	9 Bay Lt.	5mm

ANEURYSM CLIPS

McFADDEN VARI-ANGLE



McFADDEN VARI-ANGLE Aneurysm Clips,
Fenestrated Straight 4mm Opening

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
20-1350	1.5mm	6mm	5mm
20-1351	1.5mm	9mm	8mm
20-1352	1.5mm	12mm	8mm
20-1353	1.5mm	16mm	9mm
20-1354	1.5mm	20mm	9mm
20-1355	1.5mm	24mm	11mm



McFADDEN VARI-ANGLE Aneurysm Clips,
Fenestrated Straight 5mm Opening

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
20-1360	1.5mm	6mm	5mm
20-1361	1.5mm	9mm	8mm
20-1362	1.5mm	12mm	8mm
20-1363	1.5mm	16mm	9mm
20-1364	1.5mm	20mm	9mm
20-1365	1.5mm	24mm	11mm



McFADDEN VARI-ANGLE Aneurysm Clips,
Fenestrated 45° Angle 4mm Opening

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
20-1370	1.5mm	6mm	5mm
20-1371	1.5mm	9mm	8mm
20-1372	1.5mm	12mm	8mm
20-1373	1.5mm	16mm	9mm
20-1374	1.5mm	20mm	9mm
20-1375	1.5mm	24mm	11mm

ANEURYSM CLIPS

McFADDEN VARI-ANGLE

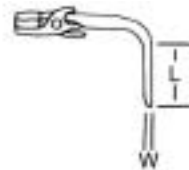
McFADDEN VARI-ANGLE Aneurysm Clips,
Fenestrated 45° Angle 5mm Opening

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
20-1380	1.5mm	6mm	5mm
20-1381	1.5mm	9mm	8mm
20-1382	1.5mm	12mm	8mm
20-1383	1.5mm	16mm	9mm
20-1384	1.5mm	20mm	9mm
20-1385	1.5mm	24mm	11mm



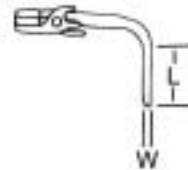
McFADDEN VARI-ANGLE Aneurysm Clips,
Fenestrated 90° Angle 4mm Opening

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
20-1390	1.5mm	6mm	5mm
20-1391	1.5mm	9mm	5mm
20-1392	1.5mm	12mm	5mm



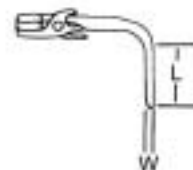
McFADDEN VARI-ANGLE Aneurysm Clips,
Fenestrated 90° Angle 5mm Opening

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
20-1395	1.5mm	6mm	5mm
20-1396	1.5mm	9mm	5mm
20-1397	1.5mm	12mm	5mm



McFADDEN VARI-ANGLE Aneurysm Clips,
Fenestrated 90° Angle 6mm Opening

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
20-1398	1.5mm	6mm	6mm
20-1399	1.5mm	9mm	6mm
20-1400	1.5mm	12mm	6mm



ANEURYSM CLIPS

McFADDEN VARI-ANGLE



McFADDEN VARI-ANGLE Aneurysm Clips, Fenestrated Bayonet 5mm Opening

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
20-1410	1.5mm	6mm	5mm
20-1411	1.5mm	9mm	8mm
20-1412	1.5mm	12mm	8mm
20-1413	1.5mm	15mm	9mm



MICROCARE® CIS System, modular 20 compartment color coordinated tray system. Ideally suited for aneurysm clips and other similar sized products. Manufactured from a plastic sterilizable material (ULTEM*), with a transparent cover.

80-1580 MICROCARE® CIS Large Set, with base tray, four smaller clip trays (20 compartments each), and four reusable inventory cards. Base tray holds up to eight applicators. Includes: MICROCARE® Clip Trays, four different colors, 20 individual compartments, and one reusable inventory control card.

Compartment Dimensions

Length	1¼"	(32mm)
Width	1"	(25mm)
Depth	½"	(13mm)

Tray Dimensions

Length	9½"	(241mm)
Width	5½"	(140mm)
Depth	½"	(13mm)

80-1581

Blue

80-1582

White

80-1583

Grey

80-1584

Black

80-1594

MICROCARE® Large Base Tray, with cover, holds four 20 compartment trays, and up to eight applicators.

Length	21"	(533mm)
Width	13"	(330mm)
Depth	1¾"	(44mm)

80-1595

MICROCARE® Small Base Tray, with cover, holds two 20 compartment trays, and up to four applicators.

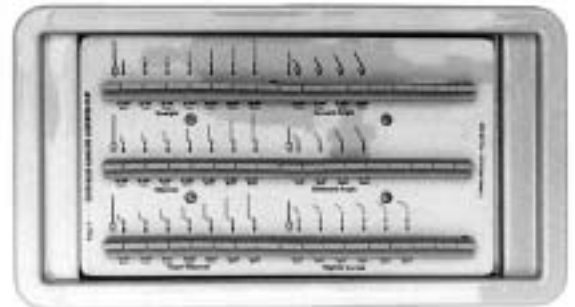
Length	12"	(305mm)
Width	10½"	(267mm)
Depth	1½"	(38mm)

*ULTEM™ is a trademark of General Electric.

ANEURYSM CLIPS SUNDT SLIM-LINE

SUNDT-KEES MICROCARE Sterilizing/Storage Trays
System of Three Lightweight ULTEM* Trays. Soft rubber bars to hold individual clips; code number and drawing of each clip on bottom of tray floor; cover incorporates a holder for applicator

		Size	
80-1841	#1	12½" x 7" x 2"	(33cm x 18cm x 5cm)
80-1842	#2	12½" x 7" x 2"	(33cm x 18cm x 5cm)
80-1843	#3	12½" x 7" x 2"	(33cm x 18cm x 5cm)














Each Tray will hold the following clips:

	TRAY #1	TRAY #2	TRAY #2 (Continued)	TRAY #3
Straight		Fenestrated Straight, 4mm	Fenestrated 90°, 6mm	
20-1600	5mm	20-1721	6mm	20-1697
20-1601	7mm	20-1722	8mm	20-1698
20-1602	9mm	20-1723	12mm	20-1699
20-1603	12mm	20-1724	16mm	
20-1604	15mm	20-1725	20mm	Right Angle
20-1605	20mm	20-1726	24mm	20-1626
20-1606	25mm			20-1627
Bayonet		Fenestrated 45°, 4mm		20-1628
20-1655	5mm	20-1727	6mm	20-1629
20-1656	7mm	20-1728	9mm	
20-1657	9mm	20-1729	12mm	Sharp Right Angle
20-1658	12mm	20-1730	16mm	20-1682
20-1659	15mm	20-1731	20mm	20-1683
20-1660	20mm	20-1732	24mm	20-1684
20-1661	25mm			
SuperBayonet		Fenestrated 90°, 4mm		TRAY #3
20-1675	5mm	20-1718	6mm	Reinforcing Clips
20-1676	7mm	20-1719	9mm	20-1740
20-1677	9mm	20-1720	12mm	20-1741
20-1678	12mm	30° Forward Curve		20-1742
20-1679	15mm	20-1635	8mm	20-1745
20-1680	20mm	20-1636	12mm	20-1746
20-1681	25mm	20-1637	16mm	20-1747
		Fenestrated Bayonet 6mm		20-1750
30° Forward Angle		20-1733	6mm	20-1751
20-1648	7mm	20-1734	9mm	20-1752
20-1649	9mm	20-1735	12mm	
20-1650	12mm	20-1736	15mm	Fenestrated Tandem (6mm)
20-1651	15mm			20-1700
Sideward Angle		Fenestrated, Straight, 6mm		20-1701
20-1641	7mm	20-1685	6mm	20-1702
20-1642	9mm	20-1686	9mm	20-1703
20-1643	12mm	20-1687	12mm	20-1704
20-1644	15mm	20-1688	16mm	20-1705
		20-1689	20mm	
Slightly Curved		20-1690	24mm	Graft
20-1610	8mm	Fenestrated 45°, 6mm		20-1715
20-1611	10mm	20-1691	6mm	20-1716
20-1612	12mm	20-1692	9mm	20-1717
20-1613	14mm	20-1693	12mm	
20-1614	16mm	20-1694	16mm	Curved
20-1615	20mm	20-1695	20mm	20-1620
		20-1696	24mm	20-1621
				20-1622
				Bayonet, 30° Curved Forward
				20-1665
				20-1666
				20-1670
				20-1671

NEUROSURGERY
MICROSURGERY

ANEURYSM CLIPS SUNDT SLIM-LINE

SUNDT-KEES Slim-Line Aneurysm Clips non-magnetic MP35N stainless steel, high minimum closing pressure, slim jaw and low profile spring design for optimal visibility.

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)	Minimum Closing Pressure (grams)*		Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)	Minimum Closing Pressure (grams)*		
Straight					Sideward Angle						
	20-1600	1.5	5	5	328		20-1641	1.5	7	6	265
	20-1601	1.5	7	6	299		20-1642	1.5	9	7	247
	20-1602	1.5	9	7	271		20-1643	1.5	12	7	236
	20-1603	1.5	12	8	242		20-1644	1.5	15	8	219
	20-1604	1.5	15	9	219	30° Forward Angle					
	20-1605	1.88	20	10	213		20-1648	1.5	7	6	270
	20-1606	1.88	25	11	184		20-1649	1.5	9	7	259
Slightly Curved						20-1650	1.5	12	7	242	
	20-1610	1.5	8	7	265		20-1651	1.5	15	8	230
	20-1611	1.5	10	7	247	Bayonet (Straight)					
	20-1612	1.5	12	7	236		20-1655	1.5	5	5	183
	20-1613	1.5	14	7	219		20-1656	1.5	7	6	178
	20-1614	1.5	16	9	207		20-1657	1.5	9	7	173
	20-1615	1.5	20	10	196		20-1658	1.5	12	8	161
Curved						20-1659	1.5	15	8	150	
	20-1620	1.5	7.5	6	282		20-1660	1.5	20	9	145
	20-1621	1.5	9.5	6	265		20-1661	1.5	25	10	140
	20-1622	1.5	11.5	7	253	Super Bayonet					
Right Angle						20-1675	1.88	5	7	170	
	20-1626	1.5	5	6	224		20-1676	1.88	7	7	160
	20-1627	1.5	7.5	6	201		20-1677	1.88	9	7	150
	20-1628	1.5	10	6	178		20-1678	1.88	12	8	140
	20-1629	1.5	15	6	155		20-1679	1.88	15	9	130
Sharp Right Angle						20-1680	1.88	20	10	120	
	20-1682	1.5	6	7	265		20-1681	1.88	25	11	110
	20-1683	1.5	9	7	247	Bayonet (30° Curved Forward-Right)					
	20-1684	1.5	12	7	236		20-1665	1.5	7	5	230
30° Forward Curve						20-1666	1.5	9	6	196	
	20-1635	1.5	8	5	276	Bayonet (30° Curved Forward-Left)					
	20-1636	1.5	12	6	265		20-1670	1.5	7	5	230
	20-1637	1.5	16	9	247		20-1671	1.5	9	6	196

*Measured at mid-base with 1.5mm opening.

ANEURYSM CLIPS SUNDT SLIM-LINE

Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)	Minimum Closing Pressure (grams)*	Tray Number
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Fenestrated Straight, 4mm Opening

20-1721	1.88	6	7	245	2
20-1722	1.88	9	8	230	2
20-1723	1.88	12	9	215	2
20-1724	1.88	16	9	200	2
20-1725	1.88	20	10	185	2
20-1726	1.88	24	11	170	2

Fenestrated 45° Angle, 4mm Opening

20-1727	1.78	6	6	250	2
20-1728	1.78	9	8	225	2
20-1729	1.78	12	9	200	2
20-1730	1.78	16	8	175	2
20-1731	1.78	20	9	150	2
20-1732	1.78	24	10	125	2

Fenestrated 90° Angle, 4mm Opening

20-1718	1.5	6	5	250	2
20-1719	1.5	9	5	230	2
20-1720	1.5	12	5	210	2

Fenestrated, Straight, 6mm Opening

20-1685	1.88	6	7	200	2
20-1686	1.88	9	8	185	2
20-1687	1.88	12	9	170	2
20-1688	1.88	16	9	155	2
20-1689	1.88	20	10	140	2
20-1690	1.88	24	11	125	2

Fenestrated 45° Angle, 6mm Opening

20-1691	1.78	6	6	235	2
20-1692	1.78	9	8	210	2
20-1693	1.78	12	9	185	2
20-1694	1.78	16	9	160	2
20-1695	1.78	20	10	135	2
20-1696	1.78	24	11	110	2

Fenestrated 90° Angle, 6mm Opening

20-1697	1.5	6	6	250	2
20-1698	1.5	9	6	230	2
20-1699	1.5	12	6	210	2

Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)	Minimum Closing Pressure (grams)*	Tray Number
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Fenestrated Bayonet, Straight, 6mm Opening

20-1733	1.88	6	7	170	2
20-1734	1.88	9	8	160	2
20-1735	1.88	12	9	150	2
20-1736	1.88	15	10	140	2

Fenestrated Straight, 3mm Extended Tandem, 6mm Opening

20-1700	1.88	6	7	150	3
20-1701	1.88	9	8	145	3
20-1702	1.88	12	9	140	3

Fenestrated Straight, 5mm Extended Tandem, 6mm Opening

20-1703	1.88	6	8	145	3
20-1704	1.88	9	9	140	3
20-1705	1.88	12	10	130	3

Graft, 4mm Diameter

20-1715	1.88	3	4	200	3
20-1716	1.88	5	4	200	3
20-1717	1.88	7	4	200	3

Reinforcing 0° Angle, 6mm Wide

20-1740	1.88	6	5	300	3
20-1741	1.88	12	5	200	3
20-1742	1.88	18	5	150	3

Reinforcing 30° Angle, 6mm Wide

20-1745	1.88	6	5	300	3
20-1746	1.88	12	5	200	3
20-1747	1.88	18	5	150	3

Reinforcing 60° Angle, 6mm Wide

20-1750	1.88	6	5	300	3
20-1751	1.88	12	5	200	3
20-1752	1.88	18	5	150	3

NEUROSURGERY
MICROSURGERY

ANEURYSM CLIPS SUNDT SLIM-LINE



20-5203



20-5205



20-5206

SUNDT SLIM-LINE Aneurysm Clip Appliers bayonet, stainless steel. Applies SUNDT SLIM-LINE Clips only.

	Tip	Length	Working Distance
20-5203	single hinge	8" (20cm)	3¾" (9.5cm)
20-5205	fixed head	8" (20cm)	3¾" (9.5cm)
20-5206	hinged head	8" (20cm)	3¾" (9.5cm)

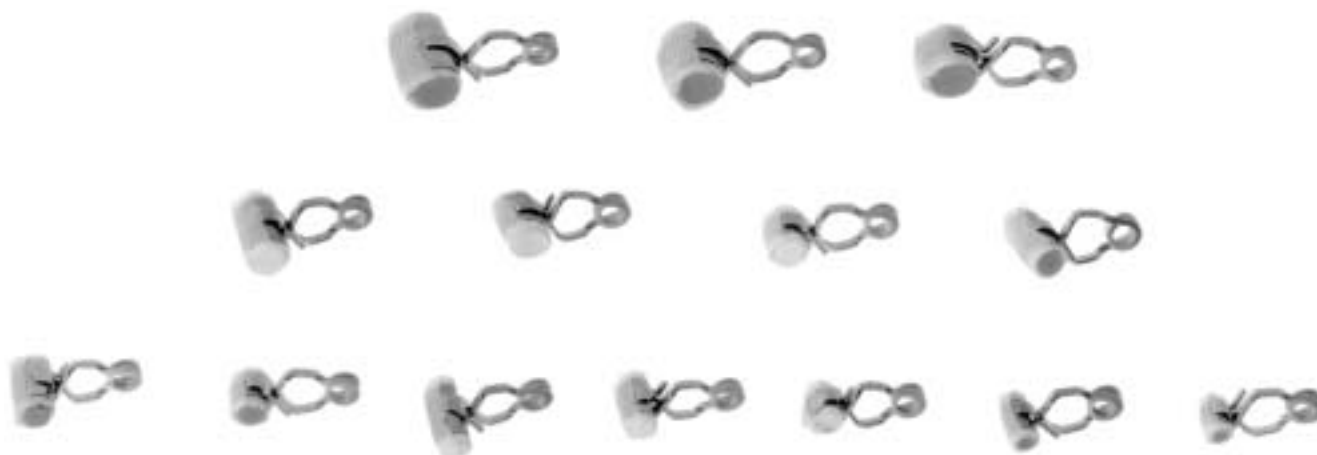
ANEURYSM CLIPS SUNDT SLIM-LINE GRAFT



80-1844 SUNDT SLIM-LINE Graft Clip Tray. Sterilizing/Storage Tray made of lightweight ULTEM®. Contains soft rubber bars to hold individual clips. Code numbers of clips appear on bottom of tray. Rubber holders on cover secure appliers.

Length	12½"	(33cm)
Width	7"	(18cm)
Depth	2"	(5cm)

ANEURYSM CLIPS SUNDT SLIM-LINE GRAFT



SUNDT SLIM-LINE GRAFT CLIPS
TFE interliner, non-magnetic MP35N steel.
Use SUNDT SLIM-LINE Aneurysm Clip
Appliers 20-5200 or 20-5201, or 20-5202,
or 20-5203.

	Blade Diameter		Blade Length
20-1760	2mm	x	3mm
20-1761	2mm	x	5mm
20-1762	2.5mm	x	3mm
20-1763	2.5mm	x	5mm
20-1764	2.5mm	x	7mm
20-1765	3mm	x	3mm
20-1766	3mm	x	5mm
20-1767	3mm	x	7mm
20-1768	3.5mm	x	3mm
20-1769	3.5mm	x	5mm
20-1770	3.5mm	x	7mm
20-1715	4mm	x	3mm
20-1716	4mm	x	5mm
20-1717	4mm	x	7mm
20-1771	5mm	x	3mm
20-1772	5mm	x	5mm
20-1773	5mm	x	7mm

NEUROSURGERY/
MICROSURGERY

ANEURYSM CLIPS SUNDT AVM MICRO

SUNDT AVM Micro Clip System, Single piece construction, non-magnetic, MRI compatible, MP35N stainless steel, triple coiled, high minimum closing pressure. Used for hemostasis of small perforating vessels during surgical excision of arterio-venous malformations. Use with the corresponding Sundt AVM Micro Clip Applier.



20-1659 SUNDT SLIM-LINE Standard Aneurysm Clip Blade length 15mm
Shown here for comparison to SUNDT AVM Micro Clips.
(Clips enlarged 2.6 times)

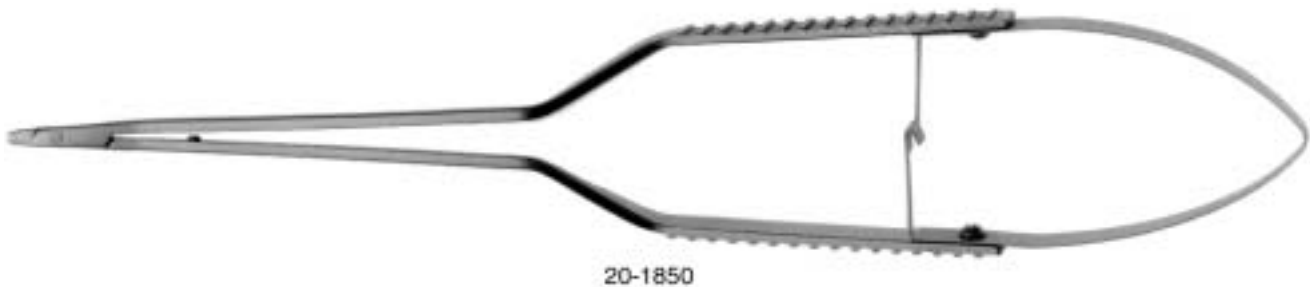


Product Code	Clip No.	Blade Width (mm)	Blade Length (mm)	Opening at Tip (mm)	Minimum Closing Pressure (grams)
20-1801	#1	.15	1	.5	10
20-1802	#2	.20	1.5	.75	20
20-1803	#3	.25	2	1.0	30
20-1804	#4	.30	3	1.5	40
20-1805	#5	.36	4	2	50

The SUNDT AVM Micro Clip Applier applies the corresponding SUNDT AVM Micro Aneurysm Clip #1, #2, #3, #4 and #5. The applier is designed with a latch mechanism to lock the aneurysm clip in the jaws of the applier.

- 20-1850 #1
- 20-1851 #2
- 20-1852 #3
- 20-1853 #4
- 20-1854 #5
- 80-1840

The SUNDT AVM Micro Clip Sterilization Tray holds several SUNDT AVM Micro Clips #1, #2, #3, #4 and #5. Clip outline and catalog number on tray for easy inventory control.



ANEURYSM CLIPS SUNDT AVM MICRO

- 80-1840** SUNDT AVM Micro Clip Tray
Sterilizing/storage tray made of lightweight ULTEM®. Contains soft rubber bars to hold individual AVM clips in storage cubes. Code numbers and drawings of clips appear on bottom of tray. Rubber holders on cover secure applicators.
- | | | |
|--------|------|--------|
| Length | 12½" | (33cm) |
| Width | 7" | (18cm) |
| Depth | 2" | (5cm) |



ANEURYSM CLIPS SUNDT SLIM-LINE MINI

- 80-1835** SUNDT SLIM-LINE Mini Aneurysm Clip Microcare Storage/Sterilizing Tray. For #6 and #7 SUNDT SLIM-LINE mini aneurysm clips and applicators. Clip outline and catalog number on tray for easy inventory control.
- | | | |
|--------|------|--------|
| Length | 12½" | (33cm) |
| Width | 7" | (18cm) |
| Depth | 2" | (5cm) |



NEUROSURGERY
MICROSURGERY

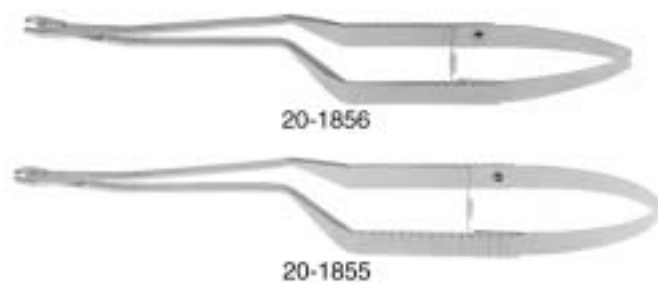
ANEURYSM CLIPS SUNDT SLIM-LINE MINI

SUNDT SLIM-LINE Mini Aneurysm Clips

Use corresponding #6 (20-1855) or #7 (20-1856) Mini Aneurysm Clip Appliers.



Catalog Number	Configuration	Blade Length
20-1821	#6 Clip, Straight	7mm
20-1822	#6 Clip, Slightly Curved	7mm
20-1823	#6 Clip, Forward Curve	6mm
20-1824	#6 Clip, Slightly Curved	6mm
20-1825	#6 Clip, Straight	6mm
20-1826	#6 Clip, Bayonet	4.5mm
20-1827	#6 Clip, Right Angle	4.5mm
20-1828	#6 Clip, Forward Angle	5mm
20-1829	#6 Clip, Side Angle	5mm
20-1831	#7 Clip, Slightly Curved	9mm
20-1832	#6 Clip, Straight	10mm
20-1833	#7 Clip, Bayonet	9mm
20-1834	#7 Clip, Right Angle	5.5mm
20-1835	#7 Clip, Forward Angle	8.5mm
20-1836	#7 Clip, Side Angle	10mm
20-1837	#7 Clip, Forward Curve	9.5mm
20-1838	#6 Clip, Straight	4mm
20-1839	#7 Clip, Slightly Curved	9.5mm



SUNDT SLIM-LINE Mini Aneurysm Clip Appliers
Applies the corresponding, #6 or #7 mini
aneurysm clips only.

- 20-1855** Mini Aneurysm Clip Applier #6
- 20-1856** Mini Aneurysm Clip Applier #7

ANEURYSM CLIPS SUNDT SLIM-LINE TEMPORARY

SUNDT SLIM-LINE Temporary Vessel Clips used for temporary vascular occlusion during intracranial surgical procedures. Non-magnetic, MP35N, MRI compatible, gold color.

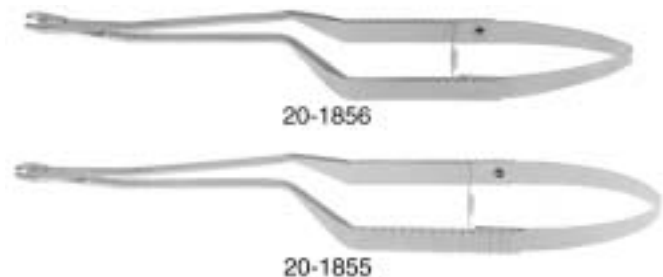
Applied with #6 and #7 Sundt Slim-Line Mini Clip Appliers (20-1855, 20-1856).



Catalog Number	Configuration	Width Dimension	Blade Length	*Grams/Pressure	Identification	Applier
20-1860	#6 Clip, Slightly Curved	0.5mm	6mm	50-80	Gold	#6, 20-1855
20-1861	#6 Clip, Straight	0.5mm	6mm	50-80	Gold	#6, 20-1855
20-1862	#6 Clip, Side Angle	0.5mm	5mm	50-80	Gold	#6, 20-1855
20-1863	#7 Clip, Slightly Curved	0.6mm	9mm	50-80	Gold	#7, 20-1856
20-1864	#7 Clip, Straight	0.6mm	10mm	50-80	Gold	#7, 20-1856
20-1865	#7 Clip, Bayonet	0.6mm	6mm	50-80	Gold	#7, 20-1856
20-1866	#7 Clip, Right Angle	0.6mm	5.5mm	50-80	Gold	#7, 20-1856
20-1867	#7 Clip, Side Angle	0.6mm	10mm	50-80	Gold	#7, 20-1856
20-1868	#7 Clip, Straight	0.6mm	15mm	50-80	Gold	#7, 20-1856
20-1869	#7 Clip, Slightly Curved	0.6mm	15mm	50-80	Gold	#7, 20-1856
20-1870	#6 Clip, Straight	0.5mm	4mm	50-80	Gold	#6, 20-1855
20-1871	#7 Clip, Slightly Curved	0.6mm	9.5mm	50-80	Gold	#7, 20-1856
20-1872	#6 Clip, Forward Curve	0.5mm	6mm	50-80	Gold	#6, 20-1855
20-1873	#7 Clip, Forward Curve	0.6mm	9.5mm	50-80	Gold	#7, 20-1856
20-1874	#6 Clip, Slightly Curved	0.5mm	7mm	50-80	Gold	#6, 20-1855

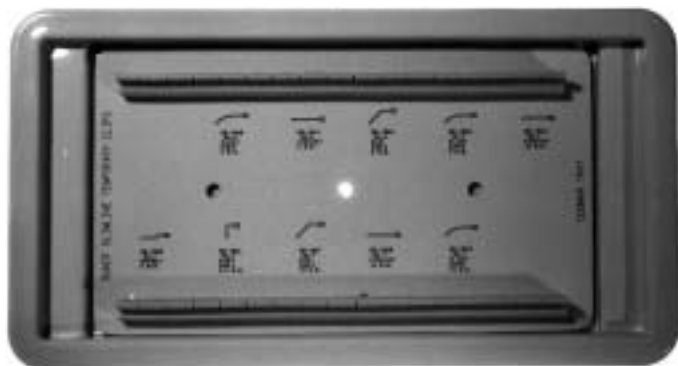
SUNDT SLIM-LINE Mini Aneurysm Clip Appliers
Applies the corresponding, #6 or #7 mini aneurysm clips only.

20-1855 Mini Aneurysm Clip Applier #6
20-1856 Mini Aneurysm Clip Applier #7



NEUROSURGERY
MICROSURGERY

ANEURYSM CLIPS SUNDT SLIM-LINE TEMPORARY



80-1845 SUNDT SLIM-LINE Temporary Clip Tray
Sterilizing/storage tray made of lightweight ULTEM®. Contains soft rubber bars to hold individual clips. Code numbers and drawings of clips appear on bottom of tray. Rubber holders on cover secure applicators.

Length	12½"	(33cm)
Width	7"	(18cm)
Depth	2"	(5cm)



80-1838 Universal Aneurysm Clip Storage/Sterilizing Case. Made of molded polyetherimide, for most designs of aneurysm clips and clip applicators. Rubber locking grips securely hold aneurysm clips. Rubber grips on the cover hold 2 Aneurysm Clip Applicators in place.

Length	12½"	(33cm)
Width	7"	(18cm)
Depth	2"	(5cm)

ANEURYSM CLIPS TEMPORARY VESSEL



20-7005 VARI-ANGLE Temporary Vessel Clip Applying Forceps, applies VARI-ANGLE Temporary Clips only.

Length	6¾"	(171mm)
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ARTERY CLIPS

SCHWARTZ Temporary Intracranial Artery Clamps, 301 stainless steel, sold six per package. Use with 20-5008 SCHWARTZ Temporary Clamp Applying Forceps only. Approximate closing pressure over 500 gms.

	Type	Width	Length
19-1010	Straight	1.6mm	9.5mm
19-1011	25° angle	1.6mm	9.5mm
19-1012	45° angle	1.6mm	9.5mm



20-5008	SCHWARTZ Temporary Vessel Clamp Applying Forceps, applies SCHWARTZ Temporary Clips only.		
	Length	7 ³ / ₄ "	(197mm)



COAGULATORS BIPOLAR



MALIS CMC-III Bipolar Cutting and Bipolar Coagulation System provides high power and micro bipolar cutting of a variety of tissues, and gentle coagulation.

- high power and micro bipolar cutting
- separate LED displays for: high power cut; micro cut; coagulation
- independent cut/coagulate controls
- power in watts or MALIS units
- irrigation enable/disable function
- LED test function
- cut/coagulation reset
- wireless remote control
- synthesized voice diagnostics
- dual voltage selector, 110/220V
- detachable power cord

80-1171 MALIS CMC-III Bipolar Cutting and Bipolar Coagulation System

Complete

Includes:

80-1170 MALIS CMC-III Generator 110V/220V (or 80-1172)

80-1173 Pneumatic Footpedal or Electric Footpedal (80-1149)

80-1175 Wireless Remote Control

80-1164 MALIS Irrigation Module (110V)

80-1174 Irrigation Connecting Cable (for serial numbers without suffix A)

80-1138 Irrigator I.V. Pole

80-1177 CODMAN Floorstand for CMC-II/CMC-III

Optional Products and Accessories

80-1170 MALIS CMC-III Bipolar Cutting and Bipolar Coagulation Generator 110V/220V. Includes detachable power cord, Footpedal (80-1173 or 80-1149), Wireless Remote Control (80-1175), Irrigator Connecting Cable (80-1174 (for serial numbers without suffix A) or 80-1179)

80-1172 MALIS CMC-III Bipolar Generator I.E.C. (International). Includes detachable power cord, Footpedal (80-1184), Wireless Remote Control (80-1176), Irrigating Connecting Cable (80-1174)

80-1163 MALIS Integrated Irrigation Tubing and Bipolar Cord, 10/cs, sterile

80-1165 MALIS Irrigation Tubing Sets, 10/cs, sterile

30-1538 Bipolar Cords 10/cs, sterile, disposable

30-1536 Bipolar Cord – Reusable

80-1230 MALIS Bipolar/Irrigating Loop Cutting Forceps, 5.0mm

80-1231 MALIS Bipolar/Irrigating Loop Cutting Forceps, 7.0mm

80-1232 MALIS Bipolar/Irrigating Loop Cutting Forceps, 10.0mm

80-1179 MALIS CMC-III Footswitch/Irrigation Cable Additional Bipolar and Bipolar/Irrigating Forceps are available.

COAGULATORS BIPOLAR

80-1149 Malis CMC-111 Bipolar Footpedal used with Malis CMC-111 Bipolar System (80-1170).



NEUROSURGERY/
MICROSURGERY

COAGULATORS BIPOLAR



80-1173 MALIS CMC-III Pneumatic Footpedal
Used with MALIS CMC-III Bipolar System
(80-1170).



80-1175 MALIS CMC-III Wireless Remote Control
Used with MALIS CMC-III Bipolar System
(80-1170).

MALIS CMC-III Bipolar Cutting and Bipolar Coagulation System provides high power and micro bipolar cutting of a variety of tissues, and gentle coagulation.

- high power and micro bipolar cutting
- separate LED displays for: high power cut; micro cut; coagulation
- independent cut/coagulate controls
- power in watts or MALIS units
- irrigation enable/disable function
- LED test function
- cut/coagulation reset
- wireless remote control
- synthesized voice diagnostics
- dual voltage selector, 110/220V
- detachable power cord

80-1171 MALIS CMC-III Bipolar Cutting and Bipolar Coagulation System

Complete

Includes:

80-1170 MALIS CMC-III Generator 110V/220V (or 80-1172)

80-1173 Pneumatic Footpedal or Electric Footpedal (80-1149)

80-1175 Wireless Remote Control

80-1164 MALIS Irrigation Module (110V)

80-1174 Irrigator Connecting Cable (for serial numbers without suffix A)

80-1138 Irrigator I.V. Pole

80-1177 CODMAN Floorstand for CMC-II/CMC-III

Optional Products and Accessories

80-1170 MALIS CMC-III Bipolar Cutting and Bipolar Coagulation Generator 110V/220V. Includes detachable power cord, Footpedal (80-1173 or 80-1149), Wireless Remote Control (80-1175), Irrigator Connecting Cable (80-1174 (for serial numbers without suffix A) or 80-1179)

80-1172 MALIS CMC-III Bipolar Generator I.E.C. (International). Includes detachable power cord, Footpedal (80-1184), Wireless Remote Control (80-1176), Irrigating Connecting Cable (80-1174)

80-1163 MALIS Integrated Irrigation Tubing and Bipolar Cord, 10/cs, sterile

80-1165 MALIS Irrigation Tubing Sets, 10/cs, sterile

30-1538 Bipolar Cords 10/cs, sterile, disposable

30-1536 Bipolar Cord – Reusable

80-1230 MALIS Bipolar/Irrigating Loop Cutting Forceps, 5.0mm

80-1231 MALIS Bipolar/Irrigating Loop Cutting Forceps, 7.0mm

80-1232 MALIS Bipolar/Irrigating Loop Cutting Forceps, 10.0mm

80-1179 MALIS CMC-III Footswitch/Irrigation Cable
Additional Bipolar and Bipolar/Irrigating Forceps are available.



COAGULATORS BIPOLAR



80-1187 SYNERGY® MALIS™ Precision Bipolar Coagulator
Includes 1 generator, 1 detachable power cord, and 1 electric foot pedal.

COAGULATORS CABLES

BIPOLAR Cords

Use with all CODMAN Bipolar Forceps. Bipolar Cutting Forceps or Bipolar Irrigating Forceps. Attach to MALIS CMC-III Bipolar Coagulator and Bipolar Cutter (80-1170), MALIS CMC-II Bipolar Coagulator and Bipolar Cutter (80-1140, 80-1142), or MALIS CMC-II PC Bipolar Coagulator (80-1160).

30-1536 BIPOLAR Cord, Reuseable

Length 12 (3.m)

CAUTION: Do not flash autoclave 30-1536 BIPOLAR Cord, also check cord before each procedure for its integrity.

30-1538 BIPOLAR Cord, disposable sterile, 10/package.

Do not re sterilize 30-1538 Disposable Cord.

30-1539 BIPOLAR Cord, IEC, reusable. For use with

80-1117, MALIS CMC-I IEC and 80-1142, MALIS CMC-II IEC, and 80-1170 MALIS CMC-III.



30-1536



30-1538



30-1539

NEUROSURGERY
MICROSURGERY

COAGULATORS FLOOR STAND



-
- 80-1177** CODMAN Coagulator Floorstand, tip resistant. Conductive casters allow easy mobility. Accommodates MALIS CMC-II (80-1140), or CMC-II PC (80-1160) OR CMC-III (80-1170) and MALIS Irrigation Module (80-1164). (Total of 2 units at one time.)
-

COAGULATORS ACCESSORIES



-
- 80-1175** MALIS CMC-III Wireless Remote Control Used with MALIS CMC-III Bipolar System (80-1170).
-

COAGULATORS IRRIGATION MODULE

-
- 80-1164** MALIS CMC-II Irrigation Module
Provides flow controlled irrigation in conjunction with bipolar coagulation. Fluid delivered from the tips of irrigating bipolar forceps at the rate of 6cc to 30cc per minute.
Includes:
Irrigator 110V, IV Pole (80-1138), Pole clamp, Malis CMC-II PC footpedal (80-1162)
Optional accessories:
- 80-1163** MALIS Integrated Irrigation Tubing and Bipolar Cord Set
- 80-1165** Irrigation Tubing Set
- 80-1166** Interconnecting Footpedal Cable
- 80-1169** MALIS CMC-II Irrigation Module—Japan
- 80-1159** Irrigator Pneumatic Interconnecting Cable
- 80-1151** MALIS CMC-III I.E.C. Irrigator Module, 220V, (International)
-



-
- 80-1163** MALIS Integrated Irrigation Tubing and Bipolar Cord Set used with:
MALIS Bipolar Cutter/Coagulators (80-1170, 80-1187, 80-1140, 80-1160) and MALIS Irrigation Module (80-1164). Sterile, 10/case.
-



NEUROSURGERY
MICROSURGERY

COAGULATORS IRRIGATION MODULE



80-1179 CMC III Footpedal/Irrigation Cable. The MALIS CMC III Foot Switch/Irrigation Cable was designed to allow use of the MALIS CMC-II Bipedal Footswitch (80-1149) with the MALIS CMC III Bipolar Electrosurgical System and the MALIS CMC II Irrigation Module (80-1164). This cable provides the option of using either the CMC-II Bipedal Footswitch or the CMC III Airfoot pedal(80-1173) to control the cutting and coagulation functions of the MALIS CMC III generator, as well as the irrigation function of the CMC II Irrigation Module.



80-1138 Irrigation Module IV pole - for use with (80-1177) Coagulator Floorstand and (80-1164) Malis Irrigation System

COAGULATORS FORCEPS, BIPOLAR

80-2964 ADSON Non-Stick Mirror Finish Bipolar Forceps, straight.
Tip width 1mm
Length 4¾" (120mm)



80-2947 CODMAN Non-Stick Mirror Finish Trigeminal Bipolar Forceps, bayonet, Titanium.
Working distance 3½" (89mm)
Tip width .4mm
Length 7⅝" (186mm)
80-2948 45° Angled up
45° Angled down



80-2968 COAPTATION Non-Stick Mirror Finish Bipolar Forceps, straight.
Small
Tip width .25mm
Length 4" (102mm)



80-2925 CUSHING Non-Stick Mirror Finish Bipolar Forceps, straight.
Tip width 1.65mm
Length 7" (178mm)
80-2920 Forceps only
Forceps with insulation



80-2962 E-SERIES* Non-Stick Mirror Finish Bipolar Forceps, straight, TITANIUM. Unique tip alignment system.
Closing Pressure 75 gms. (approximate)
Length 6" (150mm)
80-2963 Fine Tip width .3mm
Regular Tip width 1mm



NEUROSURGERY
MICROSURGERY

COAGULATORS FORCEPS, BIPOLAR



80-2924 GERALD Non-Stick Mirror Finish Bipolar Forceps, straight.
 Tip width .9mm
 Length 7" (178mm)



80-2983 GREENWOOD Non-Stick Mirror Finish Bipolar and Suction Forceps, bayonet.
 Working distance 3¼" (83mm)
 Tip width 1.75mm
 Length 7½" (191mm)
80-2984 Forceps
 Forceps with insulation



80-3060 HARDY Non-Stick Mirror Finish Insulated Bipolar Forceps, bayonet.
 Tip width .7mm
 Length 8¼" (210mm)



80-2911 HARDY Non-Stick Mirror Finish Bipolar Forceps, bayonet.
 Working distance 4¾" (121mm)
 Tip width .7mm
 Length 8¼" (210mm)

80-3060 HARDY Non-Stick Mirror Finish Insulated Bipolar Forceps, bayonet.
 Working distance 4¾" (121mm)
 Tip width .7mm
 Length 8¼" (210mm)

COAGULATORS FORCEPS, BIPOLAR

	IRIS Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		.6mm
80-2965	Length	3 ⁵ / ₈ "	(92mm)
80-2966	Straight		
	Curved		



80-2926	JEWELERS #5 Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		.35mm
	Length	4 ³ / ₈ "	(111mm)



	MALIS Non-Stick Mirror Finish Bipolar Forceps, straight, TITANIUM.		
80-2940	Length	6"	(152mm)
80-2945	Fine	Tip width	.4mm
	Extra fine	Tip width	.25mm



	MALIS* Non-Stick Mirror Finish Bipolar Coagulation and Cutting Forceps Specifically designed for use with the MALIS* CMC-III (80-1170, 80-1171). Forceps are insulated stainless steel.		
80-2914	Straight		
	Tip width	.2mm	
	Length	5 ¹ / ₂ "	(140mm)
80-2915	Straight		
	Tip width	.2mm	
	Length	6 ³ / ₄ "	(172mm)
80-2916	Bayonet		
	Tip width	.2mm	
	Length	7 ³ / ₄ "	(197mm)



COAGULATORS FORCEPS, BIPOLAR



80-2923	MALIS-JENSEN Non-Stick Mirror Finish Bipolar Forceps, bayonet.		
	Working distance	4"	(101mm)
	Tip width		.25mm
	Length	7½"	(191mm)



80-2922	MALIS Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		.75mm
	Length	5"	(140mm)



	MALIS Non-Stick Mirror Finish Bipolar Forceps, bayonet.		
	Working distance	¾"	(83mm)
	Tip width		1.5mm
	Length	7"	(178mm)
80-2912	Forceps only		
80-2921	Forceps with insulation		

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

COAGULATORS FORCEPS, BIPOLAR



MALIS Non-Stick Mirror Finish Bipolar Forceps, bayonet, TITANIUM.

	Working distance	3 ³ / ₄ "	(95mm)
	Length	8 ³ / ₄ "	(222mm)
			Tip Width
80-2938	Straight, fine tip		.4mm
80-2939	Straight, regular tip		1.5mm
80-2941	Straight, medium tip		1mm
80-2942	Angled up, fine tip		.4mm
80-2943	Angled down, fine tip		.4mm
80-2944	Curved up, blunt tip		.4mm
80-2946	Straight, extra fine tip		.25mm

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

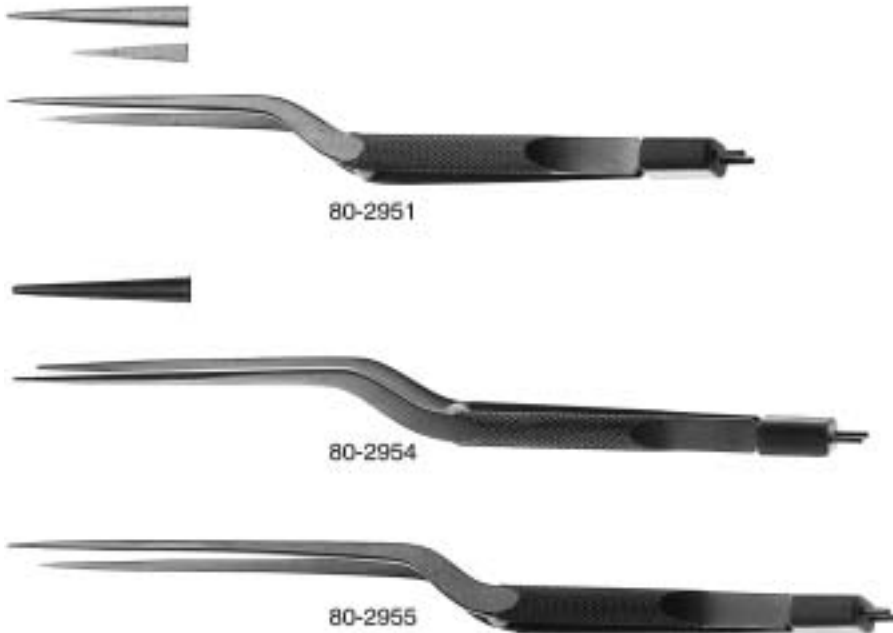
RHOTON Non-Stick Mirror Finish Bipolar Forceps, straight, TITANIUM.

	Length	7"	(178mm)
80-2949	Fine	Tip width	.45mm
80-2950	Regular	Tip width	1mm



NOTE: See back of NEUROSURGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

COAGULATORS FORCEPS, BIPOLAR



	RHOTON Non-Stick Mirror Finish Bipolar Forceps, bayonet, TITANIUM		
	Working distance	3½"	(89mm)
	Length	8¼"	(210mm)
80-2951	Fine	Tip width	.45mm
80-2952	Regular	Tip width	1mm
	Working distance	4"	(102mm)
	Length	9"	(229mm)
80-2953	Fine	Tip width	.5mm
80-2954	Regular	Tip width	1mm
	Working distance	4¾"	(120mm)
	Length	9¾"	(248mm)
80-2955	Fine	Tip width	.7mm

	RHOTON Bipolar Forceps, bayonet, TITANIUM.		
	Working distance	3¾"	(95mm)
	Length	8⅞"	(225mm)
80-2956	Fine	Tip width	.5mm
80-2957	Medium	Tip width	.7mm
80-2958	Regular	Tip width	1.0mm
80-2959	Large	Tip width	1.5mm

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

COAGULATORS FORCEPS, BIPOLAR

SPETZLER Non-Stick Mirror Finish Neuro-Vascular Bipolar Forceps
Titanium, bayonet

Length 9⁷/₈" (241mm)
Working distance 4" (100mm)

80-2960 Bipolar Forceps, straight tip .9mm
80-2961 Bipolar Forceps, 30° angled tip .9mm



80-2967 STANDARD Non-Stick Mirror Finish Bipolar Forceps, straight.

Tip width .5mm
Length 3⁵/₈" (92mm)



YASARGIL Non-Stick Mirror Finish Bipolar Forceps, bayonet.

Working distance 2¹/₂" (64mm)
Length 6³/₄" (171mm)

80-2972 Fine Tip width .5mm
80-2973 Medium Tip width .7mm
80-2974 Regular Tip width 1mm

Working distance 3" (76mm)
Length 7¹/₄" (184mm)

80-2975 Fine Tip width .5mm
80-2976 Medium Tip width .7mm
80-2977 Regular Tip width 1mm
80-2978 Large Tip width 1.3mm

Working distance 4" (102mm)
Length 8¹/₄" (210mm)

80-2979 Fine Tip width .5mm
80-2980 Medium Tip width .7mm
80-2981 Regular Tip width 1mm
80-2982 Large Tip width 1.3mm

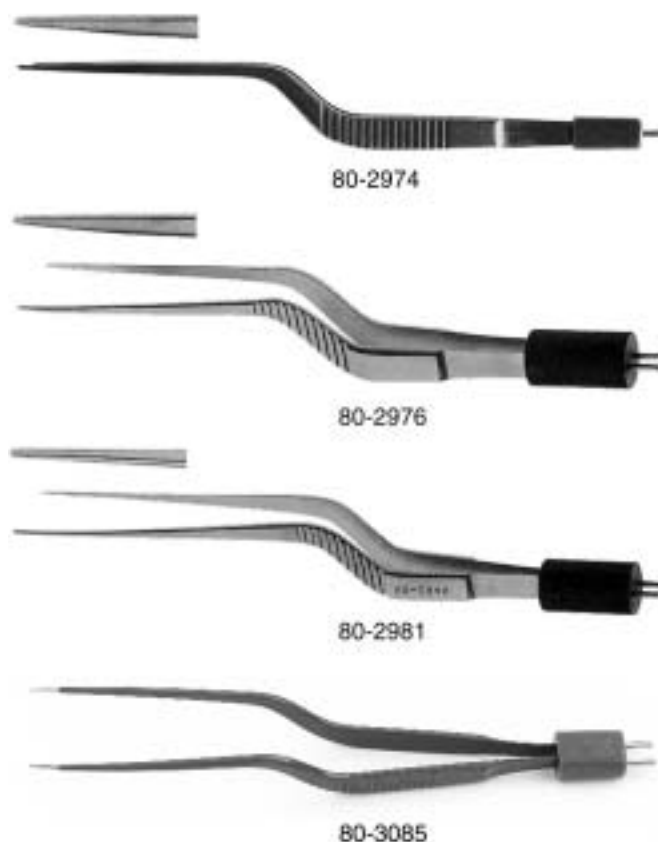
YASARGIL Non-Stick Mirror Finish Insulated Bipolar Forceps, bayonet.

Working distance 2¹/₂" (64mm)
Length 6³/₄" (171mm)

80-3084 Medium Tip width .7mm
80-3085 Regular Tip width 1mm

Working distance 4" (102mm)
Length 8¹/₄" (210mm)

80-3086 Large Tip width 1.3mm



NEUROSURGERY
MICROSURGERY

COAGULATORS FORCEPS, BIPOLAR IRRIGATING

MALIS Non-Stick Mirror Finish Bipolar Irrigating Forceps, used in conjunction with the Malis Irrigation Module (80-1164)



Code #	Style	Length	Alloy	Tip Configuration	Tip Size
80-1230	Bayonet	8¾" (22.4cm)	Insulated Titanium	Circular Loop	5mm
80-1231	Bayonet	8¾" (22.4cm)	Insulated Titanium	Circular Loop	7mm
80-1232	Bayonet	8¾" (22.4cm)	Insulated Titanium	Circular Loop	10mm
80-2900	Bayonet	8½" (21.8cm)	Insulated Stainless	Straight	0.70mm
80-2901	Bayonet	7¾" (19.7cm)	Insulated Stainless	Straight	1.0mm
80-2902	Bayonet	8½" (21.8cm)	Titanium	Straight	0.50mm
80-2903	Bayonet	7¾" (19.7cm)	Insulated Stainless	Straight	0.25mm
80-2904	Bayonet	8¾" (22.4cm)	Titanium	Straight	1.5mm
80-2905	Bayonet	8¾" (22.4cm)	Titanium	Straight	1.0mm
80-2906	Bayonet	8¾" (22.4cm)	Titanium	Straight	0.25mm
80-2913	Straight	5" (13.9cm)	Insulated Stainless	Straight	0.75mm
80-2917	Straight	5" (13.9cm)	Insulated Stainless	Straight	0.25mm
80-2918	Straight	7" (18cm)	Insulated Stainless	Straight	0.25mm
80-2919	Bayonet	7¾" (19.7cm)	Insulated Stainless	Straight	0.25mm
80-2927	Straight	6" (15.2cm)	Titanium	Straight	0.25mm
80-2928	Straight	6" (15cm)	Titanium	Straight	0.45mm
80-2929	Bayonet	8¾" (22.4cm)	Titanium	Angle Up	0.50mm
80-2930	Bayonet	8¾" (22.4cm)	Titanium	Angle Down	0.50mm
80-2931	Bayonet	8¾" (22.4cm)	Titanium	90° Blunt Curve Up	0.75mm
80-2932	Bayonet	8¾" (22.4cm)	Titanium	90° Blunt Curve Down	0.75mm
80-2985	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Straight	0.25mm
80-2986	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Straight	0.5mm
80-2987	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Straight	1mm
80-2988	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Straight	1.5mm
80-2989	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Angle Up	0.5mm
80-2990	Bayonet	7¾" (19.7cm)	Insulated	Straight	1.5mm
80-2991	Bayonet	7½" (19.1cm)	Insulated	Straight	5mm
80-2992	Bayonet	7½" (19.1cm)	Insulated Titanium	Straight	4mm
80-2993	Bayonet	7½" (19.1cm)	Insulated Titanium	Straight	1mm
80-2994	Bayonet	7½" (19.1cm)	Insulated Titanium	Straight	1.5mm
80-2995	Straight	6" (15cm)	Insulated Titanium	Straight	4mm
80-2996	Irrigating Bayonet	10¾" (27.3cm)	Insulated Titanium	Straight	25mm
80-2997	Irrigating Bayonet	10¾" (27.3cm)	Insulated Titanium	Straight	5mm
80-2998	Irrigating Bayonet	10¾" (27.3cm)	Insulated Titanium	Straight	1mm
80-2999	Irrigating Bayonet	10¾" (27.3cm)	Insulated Titanium	Straight	1.5mm
80-3050	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Straight Forcep - Duck Billed	1mm

COAGULATORS FORCEPS, BIPOLAR IRRIGATING

The nine patterns of RHOTON Bipolar Irrigating Forceps include two bayonet forceps with four tip sizes each, and one straight forceps. The unique feature of these forceps is that the irrigation pipe is completely recessed into the right blade of the forceps. This offers the surgeon increased visibility at the forceps tips. The bayonet pattern are offered in two lengths, short (8cm working distance) and long (9cm working distance), which are needed for superficial and deep operations. Each length is offered with four distal tip widths.



RHOTON Non-Stick Mirror Finish Bipolar Irrigation Forceps, Titanium

	Working Distance	3.2"	(8cm)
	Length	8¼"	(21cm)
80-2907	Bayonet	Tip Width	0.25mm
80-2933	Bayonet	Tip Width	0.50mm
80-2908	Bayonet	Tip Width	0.70mm
80-2934	Bayonet	Tip Width	1.00mm
	Working Distance	3.7"	(9.5cm)
	Length	9"	(22.5cm)
80-2909	Bayonet	Tip Width	0.25mm
80-2935	Bayonet	Tip Width	0.50mm
80-2910	Bayonet	Tip Width	0.70mm
80-2936	Bayonet	Tip Width	1.00mm
80-2937	Straight Length	7"	(18cm)
		Tip Width	.7mm

80-1130 Stylets – set of 10/replacements for preventive maintenance and care of the microtube on MALIS & RHOTON Bipolar Irrigation Forceps.

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.



NEUROSURGERY
MICROSURGERY

COAGULATORS FORCEPS, MONOPOLAR



29-1001	FRAZIER Cautery Cord, with plug to fit standard Bovie.		
	Length	12'	(3.66m)



29-1002	BUCY-FRAZIER Cautery Cord		
	Length	11'	(3.35m)



29-1003	FRAZIER Cautery Cord, with plug to fit CSV Bovie.		
	Length	12'	(3.66m)



29-1013	POPPEM Cautery Cord		
	Length	11'	(3.35m)

COAGULATORS FORCEPS, MONOPOLAR

30-1257 CUSHING Monopolar Forceps, bayonet, with insulation.
Working distance 3" (76mm)
Tip width 1.5mm
Length 7³/₄" (197mm)



DAVIS Monopolar Forceps, bayonet.
Working distance 3³/₄" (95mm)
Tip width 1.5mm
Length 6¹/₂" (165mm)

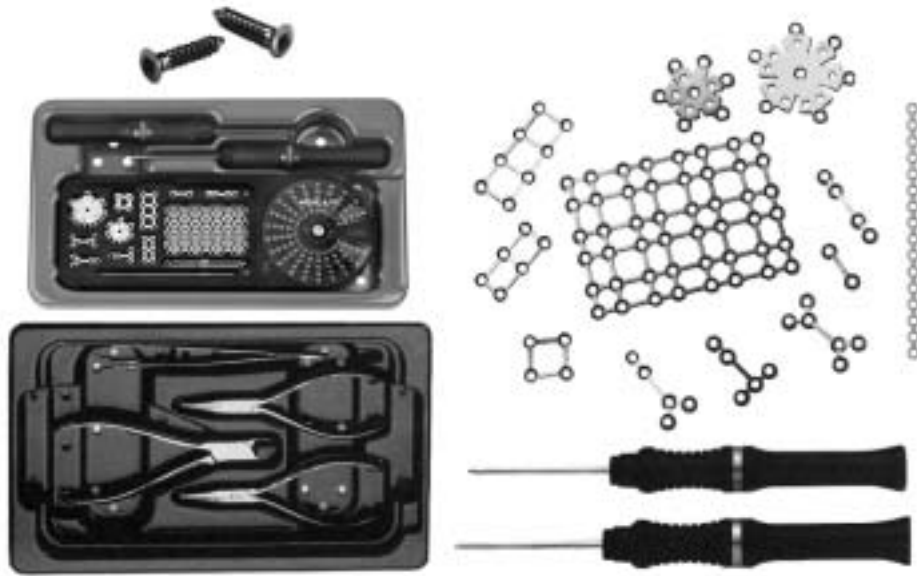
30-1240 Forceps only
30-1243 Forceps with insulation



30-1161 JANSEN Monopolar Forceps, bayonet, with insulation.
Working distance 3³/₄" (95mm)
Tip width 1.5mm
Length 8³/₄" (222mm)



CRANIAL FIXATION BIOPLATE



1.5mm BIOPLATE Neurosurgery Fixation System.
Designed for neurosurgeons.

	Code #	Description
Plates		
1 pkg. of 5 ea.	81-2000	Straight, 2 Hole, Bar, 11mm
1 pkg. of 1 ea.	81-2001	Straight, 4 Hole, Bar, 19mm
1 pkg. of 1 ea.	81-2002	Y Plate, 5 Hole, Bar, 18mm
1 pkg. of 1 ea.	81-2003	X Plate, 6 Hole, Bar, 17mm
1 pkg. of 1 ea.	81-2004	T Plate, 5 Hole, Bar, 15mm
1 pkg. of 1 ea.	81-2005	Burr Cover, 6 Hole, 12mm, Flat-Rigid
1 pkg. of 1 ea.	81-2006	Burr Cover, 6 Hole, 18mm, Flat-Rigid
1 pkg. of 1 ea.	81-2053	Contoured Flexible Burr Hole Cover, 12mm
1 pkg. of 1 ea.	81-2054	Contoured Flexible Burr Hole Cover, 18mm
1 pkg. of 1 ea.	81-2055	Contoured Rigid Burr Hole Cover, 12mm
1 pkg. of 1 ea.	81-2056	Contoured Rigid Burr Hole Cover, 18mm
1 pkg. of 1 ea.	81-2007	Box Car, 4 Hole, 10 x 10mm
1 pkg. of 1 ea.	81-2008	Box Car, 6 Hole, 8 x 17mm
1 pkg. of 1 ea.	81-2009	Box Car, 8 Hole, 10 x 24mm
1 pkg. of 1 ea.	81-2010	Lattice, 48 Hole, 32 x 44mm
1 pkg. of 1 ea.	81-3018	Straight, 2 Hole, Bar, 11mm
1 pkg. of 1 ea.	81-3059	8 Hole Orbital Plate
1 pkg. of 1 ea.	81-3060	16 Hole Straight Plate
1 pkg. of 1 ea.	81-3180	Shunt Burr Hole Cover, 1.5mm
Self Drilling Screws		
1 pkg. of 1 ea.	81-2057	Self Drilling Screw, 1.5mm x 3mm
1 pkg. of 1 ea.	81-2058	Self Drilling Screw, 1.5mm x 4mm
1 pkg. of 1 ea.	81-2059	Self Drilling Screw, 1.5mm x 5mm
1 pkg. of 5 ea.	81-3087	Self Drilling Screw, 1.5mm x 3mm
1 pkg. of 5 ea.	81-3088	Self Drilling Screw, 1.5mm x 4mm
1 pkg. of 5 ea.	81-3089	Self Drilling Screw, 1.5mm x 5mm
1 pkg. of 1 ea.	81-3095	1.5mm Self-Drilling Screw Insert
Standard Screws		
1 pkg. of 5 ea.	81-2011	1.5mm screw-3mm
1 pkg. of 5 ea.	81-2012	1.5mm screw-4mm
1 pkg. of 5 ea.	81-2013	1.5mm screw-5mm
1 pkg. of 5 ea.	81-2014	1.5mm screw-6mm
1 pkg. of 5 ea.	81-2015	1.5mm screw-8mm
1 pkg. of 5 ea.	81-2016	1.5mm screw-10mm
1 pkg. of 5 ea.	81-2017	1.8mm screw-Emergency
1 pkg. of 1 ea.	81-3011	1.5mm screw-3mm
1 pkg. of 1 ea.	81-3012	1.5mm screw-4mm
1 pkg. of 1 ea.	81-3013	1.5mm screw-5mm
1 pkg. of 1 ea.	81-3014	1.5mm screw-6mm
1 pkg. of 1 ea.	81-3015	1.5mm screw-8mm
1 pkg. of 1 ea.	81-3016	1.5mm screw-10mm
1 pkg. of 1 ea.	81-3017	1.8mm screw-Emergency

Code #	Description
81-2021	1.5mm Screwdriver with Blade, Std.
81-2027	1.5mm Screwdriver Blade, Std.
81-3100	1.5mm Screwdriver with Blade, Large
81-3101	1.5mm Screwdriver Blade, Large
81-2022	Plate Bender
81-2023	Plate Cutter-Med.
81-2024	Forceps Angled
81-3105	Plate and Screw Container
81-3119	Sterilizing Container-Neuro

Instruments

1 ea.	81-2021	1.5mm Screwdriver with Blade, Std.
1 ea.	81-2027	1.5mm Screwdriver Blade, Std.
1 ea.	81-3100	1.5mm Screwdriver with Blade, Large
1 ea.	81-3101	1.5mm Screwdriver Blade, Large
1 ea.	81-2022	Plate Bender
1 ea.	81-2023	Plate Cutter-Med.
1 ea.	81-2024	Forceps Angled
1 ea.	81-3105	Plate and Screw Container
1 ea.	81-3119	Sterilizing Container-Neuro

Drill Bits

1 ea.	81-2018	Drill Bit, 1.0mm, 4mm, standard low speed drill
1 ea.	81-2019	Drill Bit, 1.0mm, 6mm, standard low speed drill
1 ea.	81-2020	Drill Bit, 1.0mm, 10mm, standard low speed drill
1 ea.	81-3067	Drill Bit, 1.0mm, 4mm handpieces
1 ea.	81-3068	Drill Bit, 1.0mm, 6mm handpieces
1 ea.	81-3069	Drill Bit, 1.0mm, 10mm handpieces
1 ea.	81-3061	Drill Bit, 1.0mm, 4mm craniotomes
1 ea.	81-3062	Drill Bit, 1.0mm, 6mm craniotomes
1 ea.	81-3063	Drill Bit, 1.0mm, 10mm craniotomes
1 ea.	81-3073	Drill Bit, 1.0mm, 4mm long hand drill
1 ea.	81-3074	Drill Bit, 1.0mm, 6mm long hand drill
1 ea.	81-3077	Drill Bit, 1.0mm, 4mm Midas Rex Classic
1 ea.	81-3078	Drill Bit, 1.0mm, 6mm Midas Rex Classic
1 ea.	81-3079	Drill Bit, 1.0mm, 10mm Midas Rex Classic
1 ea.	81-3083	Drill Bit, 1.0mm, 4mm Midas Rex III
1 ea.	81-3084	Drill Bit, 1.0mm, 6mm Midas Rex III

BIO-100 Set

1 ea.	81-2027	BIO-100 Screw Driver Blade, STD
1 ea.	81-3175	BIO-100 1.5mm Tray Insert
5 ea.	81-3164	BIO-100 Screws, 1.5mm x 4.5mm
1 ea.	81-3165	BIO-100 Screws, 1.5mm x 4.5mm
5 ea.	81-3135	BIO-100 Two Hole Plate
1 ea.	81-3131	BIO-100 Two Hole Plate

CRANIAL FIXATION BIOPLATE



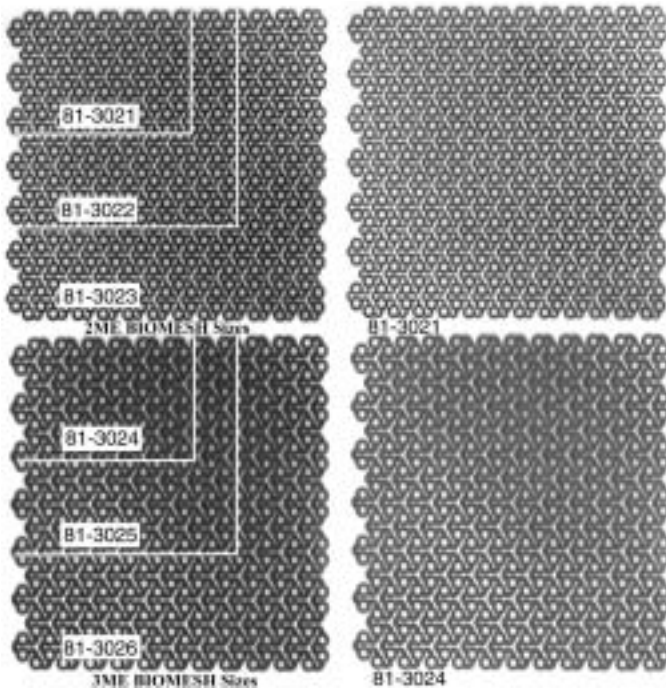
1.9mm BIOPLATE Neurosurgery Fixation System.
Designed for neurosurgeons.

	Code #	Description
Plates		
1 pkg. of 5 ea.	81-3027	Straight Plate, 2 hole, 12mm
1 pkg. of 1 ea.	81-3028	Straight Plate, 4 hole, 20mm
1 pkg. of 1 ea.	81-3029	Y Plate, 5 Hole, 19mm
1 pkg. of 1 ea.	81-3030	X Plate, 6 Hole, 18mm
1 pkg. of 1 ea.	81-3031	T Plate, 5 Hole, 16mm
1 pkg. of 1 ea.	81-3032	Burr Hole Cover, 6 Hole, 12mm, Flat - Rigid
1 pkg. of 1 ea.	81-3033	Burr Hole Cover, 6 Hole, 18mm, Flat - Rigid
1 pkg. of 1 ea.	81-2046	Contoured Flexible Burr Hole Cover, 12mm
1 pkg. of 1 ea.	81-2047	Contoured Flexible Burr Hole Cover, 18mm
1 pkg. of 1 ea.	81-2048	Contoured Rigid Burr Hole Cover, 12mm
1 pkg. of 1 ea.	81-2049	Contoured Rigid Burr Hole Cover, 18mm
1 pkg. of 1 ea.	81-3034	Boxcar Plate, 4 Hole, 11 x 11mm
1 pkg. of 1 ea.	81-3035	Boxcar Plate, 6 Hole, 9 x 18mm
1 pkg. of 1 ea.	81-3036	Boxcar Plate, 8 Hole, 11 x 25mm
1 pkg. of 1 ea.	81-3048	Straight Plate, 2 Hole, 12mm
1 pkg. of 1 ea.	81-3161	Straight Plate, 16 Hole, 1.9mm
1 pkg. of 1 ea.	81-3181	Shunt Burr Hole Cover, 1.9mm
Standard Drilling Screws		
1 pkg. of 5 ea.	81-3037	1.9mm screw-3mm long
1 pkg. of 5 ea.	81-3038	1.9mm screw-4mm long
1 pkg. of 5 ea.	81-3039	1.9mm screw-5mm long
1 pkg. of 5 ea.	81-3040	1.9mm screw-6mm long
1 pkg. of 5 ea.	81-3041	1.9mm screw-8mm long
1 pkg. of 5 ea.	81-3042	1.9mm screw-10mm long
1 pkg. of 5 ea.	81-3043	2.3mm screw-5mm long Emergency
1 pkg. of 1 ea.	81-3049	1.9mm screw-3mm long
1 pkg. of 1 ea.	81-3050	1.9mm screw-4mm long
1 pkg. of 1 ea.	81-3051	1.9mm screw-5mm long
1 pkg. of 1 ea.	81-3052	1.9mm screw-6mm long
1 pkg. of 1 ea.	81-3053	1.9mm screw-8mm long
1 pkg. of 1 ea.	81-3054	1.9mm screw-10mm long
1 pkg. of 1 ea.	81-3055	2.3mm screw- 5mm long Emergency
Self Drilling Screws		
1 pkg. of 1 ea.	81-2050	Self Drilling Screw, 1.9mm x 3mm
1 pkg. of 1 ea.	81-2051	Self Drilling Screw, 1.9mm x 4mm
1 pkg. of 1 ea.	81-2052	Self Drilling Screw, 1.9mm x 5mm
1 pkg. of 5 ea.	81-3091	Self Drilling Screw, 1.9mm x 3mm
1 pkg. of 5 ea.	81-3092	Self Drilling Screw, 1.9mm x 4mm
1 pkg. of 5 ea.	81-3093	Self Drilling Screw, 1.9mm x 5mm
1 pkg. of 1 ea.	81-3096	1.9mm Self-Drilling Screw Insert

	Code #	Description
Instruments		
1 ea.	81-3046	1.9mm Screwdriver with Blade, Std.
1 ea.	81-2034	1.9mm Screwdriver Blade, Std.
1 ea.	81-3102	1.9mm Screwdriver with Blade, Large
1 ea.	81-3103	1.9mm Screwdriver Blade, Large
1 ea.	81-2022	Plate Bender
1 ea.	81-2023	Plate Cutter-Medium
1 ea.	81-2024	Forceps Angled
1 ea.	81-3109	Plate and Screw Container
1 ea.	81-3119	Sterilizing Container
Drill Bits		
1 ea.	81-2033	Drill bit 1.5mm, 4mm, standard low speed drill
1 ea.	81-3044	Drill bit 1.5mm, 6mm, standard low speed drill
1 ea.	81-3045	Drill bit 1.5mm, 10mm, standard low speed drill
1 ea.	81-3070	Drill bit 4.5mm, long handpieces
1 ea.	81-3071	Drill bit 6mm long handpieces
1 ea.	81-3072	Drill bit 10mm long handpieces
1 ea.	81-3064	Drill bit 4.5mm long craniotomes
1 ea.	81-3065	Drill bit 6mm long craniotomes
1 ea.	81-3066	Drill bit 10mm long craniotomes
1 ea.	81-3075	Drill bit 4.5mm long hand drill
1 ea.	81-3076	Drill bit 6mm long hand drill
1 ea.	81-3080	Drill bit 4.5mm long Midas Rex Classic
1 ea.	81-3081	Drill bit 6mm long Midas Rex Classic
1 ea.	81-3082	Drill bit 10mm long Midas Rex Classic
1 ea.	81-3085	Drill bit 4.5mm long Midas Rex III
1 ea.	81-3086	Drill bit 6mm long Midas Rex III
BIO-100 Set		
1 ea.	81-2033	BIO-100 Drill Bit 1.5mm x 4mm
1 ea.	81-2034	BIO-100 Screw Driver Blade 2mm
1 ea.	81-2035	BIO-100 Tray Insert
1 ea.	81-3019	BIO-100 Screw 1.9mm x 4.5mm
5 ea.	81-2036	BIO-100 Screws, 2mm x 4mm
1 ea.	81-3020	BIO-100 Two Hole Plate
5 ea.	81-2037	BIO-100 Two Hole Plate

**NEUROSURGERY
MICROSURGERY**

CRANIAL FIXATION BIOPLATE



BIOPLATE BIOMESH

2ME BIOMESH

Thickness: 0.4mm

Screw diameters: 1.5mm to 2.0mm

Technical Data: Grade 4 Titanium (ASTM F-67)

81-3021	overall dimensions	33x48mm
81-3022	overall dimensions	60x60mm
81-3023	overall dimensions	85x90mm
81-3140	overall dimensions	132x134mm

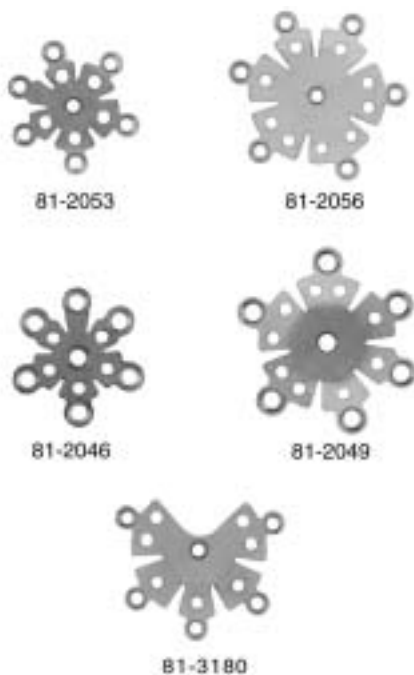
3ME BIOMESH

Thickness: 0.6mm

Screw diameters: 1.5mm to 2.0mm

Technical Data: Grade 4 Titanium (ASTM F-67)

81-3024	overall dimensions	36x52mm
81-3025	overall dimensions	65x65mm
81-3026	overall dimensions	90x92mm
81-3141	overall dimensions	127x131mm



The BIOPLATE Neurosurgery Fixation System now offers eight new Contoured Burr Hole Covers (BHC) for cranial flap closure. The new BHC's are available in flexible or rigid configurations and pre-contoured to the natural curvature of the skull. The BHC's are made from the highest medical grade titanium, providing maximum strength and biocompatibility.

1.9mm Contoured Burr Hole Covers

81-2046	Flexible	12mm
81-2047	Flexible	18mm
81-2048	Rigid	12mm
81-2049	Rigid	18mm
81-3181	Shunt Burr Hole Cover	

1.5mm Contoured Burr Hole Covers

81-2053	Flexible	12mm
81-2054	Flexible	18mm
81-2055	Rigid	12mm
81-2056	Rigid	18mm
81-3180	Shunt Burr Hole Cover	

CRANIAL FIXATION BIOPLATE

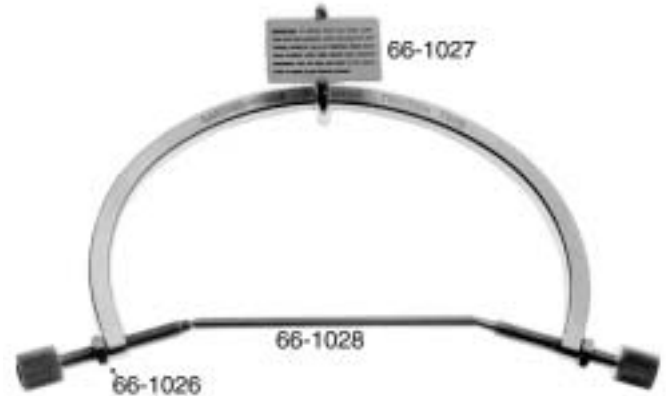
The BIOPLATE Large Screwdriver was designed to be used with the BIOPLATE 1.5mm and 1.9mm standard or self drilling screws, offering maximum insertion torque while minimizing hand fatigue.

- 81-3100** 1.5mm Large Screwdriver with blade
- 81-3101** 1.5mm Large Screwdriver blade
- 81-3102** 1.9mm Large Screwdriver with blade
- 81-3103** 1.9mm Large Screwdriver blade

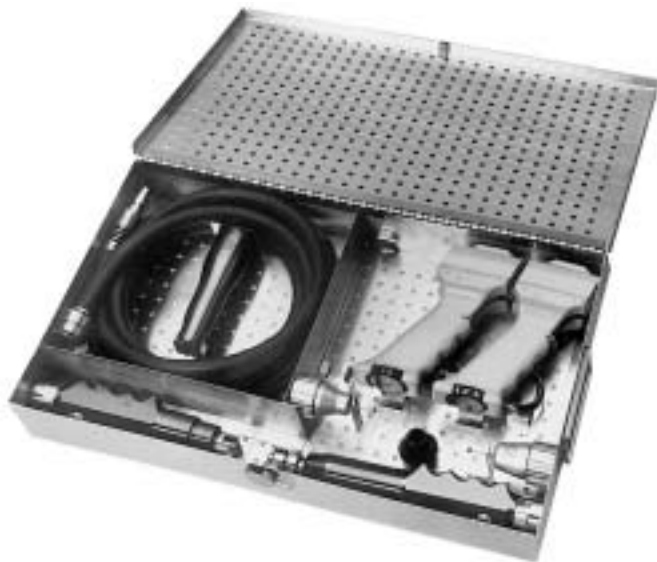


CRANIAL STABILIZATION SKULL TONGS

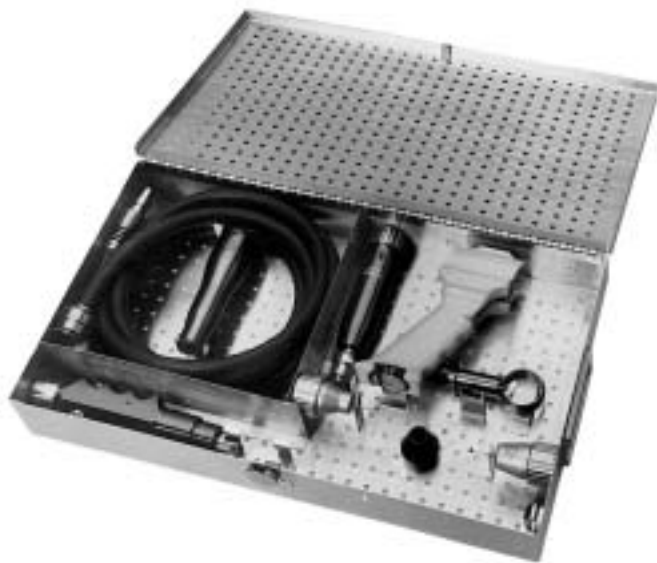
- 66-1025** GARDNER-WELLS Skull Tongs with one spring-loaded point for cervical traction. Maximum opening 6¼" (159mm)
- 66-1026** Adjustment nut (sold each).
- 66-1027** S-Hook
- 66-1028** Test Bar



CRANIOTOME AIR



-
- 26-5030** CPS Unitized Air Craniotome Set
Includes the following:
- 26-5000** Modular Air Driver, Complete
 - 26-5001** 1,000 RPM Unitized, Air Driver, Complete
 - 26-5003** Swiveling Dura Guard
 - 26-5004** Wire Pass Drill Guard
 - 26-5008** Fixed Dura Guard
 - 26-5009** Skull Perforator Guard
 - 26-5012** Stabilizing Handle
 - 26-5007** Air Hose, 10 Feet
 - 26-5015** Sterilizing Case
 - 26-5015** CODMAN Power Systems Sterilizing Case, stainless steel, holds either a Unitized or Modular Air Craniotome Set
- | | | |
|--------|------|--------|
| Length | 17½" | (44cm) |
| Width | 10" | (25cm) |
| Depth | 2½" | (6cm) |
-



-
- 26-5040** CPS Modular Air Craniotome Set
Includes the following:
- 26-5000** Modular Air Driver, Complete
 - 26-5002** 1,000 RPM Modular Attachment
 - 26-5003** Swiveling Dura Guard
 - 26-5004** Wire Pass Drill Guard
 - 26-5008** Fixed Dura Guard
 - 26-5009** Skull Perforator Guard
 - 26-5012** Stabilizing Handle
 - 26-5007** Air Hose, 10 Feet
 - 26-5015** Sterilizing Case
-

CRANIOTOME DRIVERS

26-5000 CODMAN Modular Air Driver. Includes pistol grip handle, (26-5007) coaxial air hose and lubricant.

Length	7"	(178mm)
Weight	20 oz.	(567 gm)
No load speed		20,000 rpm
Braking time		Within 1 sec.
Power requirement		100 psi compressed dry nitrogen, nominal



26-5001 CODMAN 1,000 RPM Unitized Air Driver. Includes pistol grip handle (26-5007), coaxial air hose, and lubricant.

Length	9"	(229mm)
Weight	28 oz.	(794gm)
No load speed		1,000 rpm
Power requirement		100 psi compressed dry nitrogen, nominal



26-5002 CODMAN 1,000 RPM Modular Attachment. Locks onto the Air Driver (26-5000).

Length	4"	(102mm)
Weight	14 oz.	(397 gm)
No load speed		1,000 rpm



NEUROSURGERY
MICROSURGERY

CRANIOTOME DRIVER ACCESSORIES



26-1230 The CODMAN CRANIOTOMY KIT, sterile, disposable.
Consists of one each:
CODMAN Disposable Perforator
CODMAN Cranioblade
CODMAN Wire Pass Drill



26-1221 CODMAN Disposable Perforator
Single use, sterile, always sharp, disposable perforator. Designed for use in perforating the cranium.

CRANIOTOME DRIVER ACCESSORIES

	CODMAN 100,000 RPM Air Drill Burr Guards
26-5021	Medium
26-5022	Long
26-5023	CODMAN, calibrated in centimeters.



26-5021



26-5022

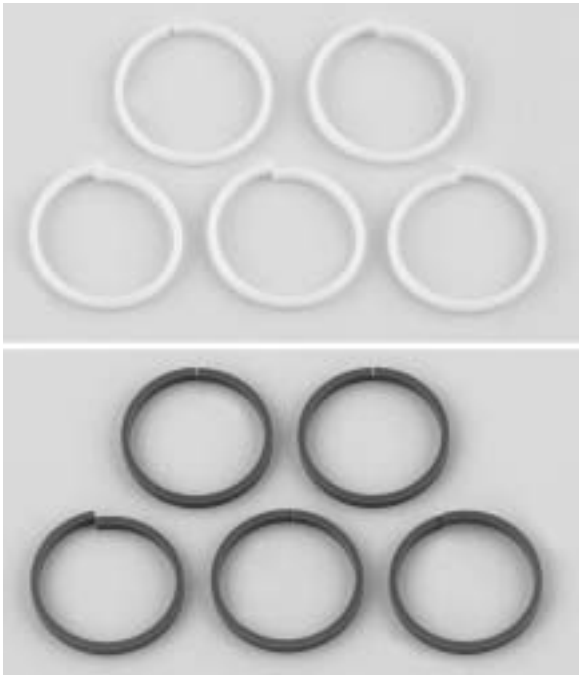


26-5023

26-5024	CODMAN Coaxial Air Hose, 100,000 RPM only.
Length	10 (3.0m)



CRANIOTOME DRIVER ACCESSORIES



26-5010 CODMAN Dura Guard Compression Ring, white. Five per package.

26-5011 CODMAN Modular Attachment Compression Ring, blue. Five per package.



26-1246 CODMAN Cranio-blade. Sterile, disposable, package of five.

CRANIOTOME DRIVER ACCESSORIES

-
- 26-5003** CODMAN Swiveling Dura Guard, rotates 360°
26-5008 CODMAN Dura Guard, fixed stem.
-



-
- 26-5009** CODMAN Skull Perforator Guard
-



NEUROSURGERY
MICROSURGERY

-
- 26-5004** CODMAN Wire Pass Drill Guard
-



CRANIOTOME DRIVER ACCESSORIES



26-5012 CODMAN Stabilizing Handle, to be used with 26-5002, 1,000 RPM Modular Attachment.



26-5007 CODMAN Coaxial Air Hose, recommended for use with CODMAN Air Powered Equipment.
Length 10 (3.0m)



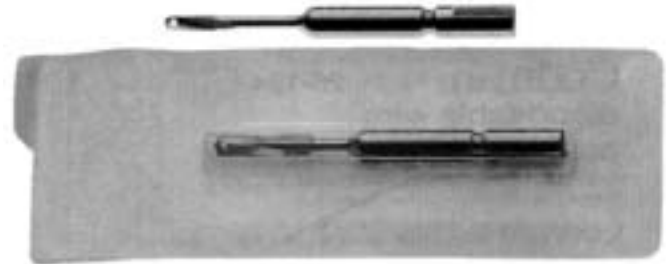
26-5026 CODMAN Lubricant. Recommended for use with CODMAN Powered Instrument. Sold one each.

CRANIOTOME DRIVER ACCESSORIES

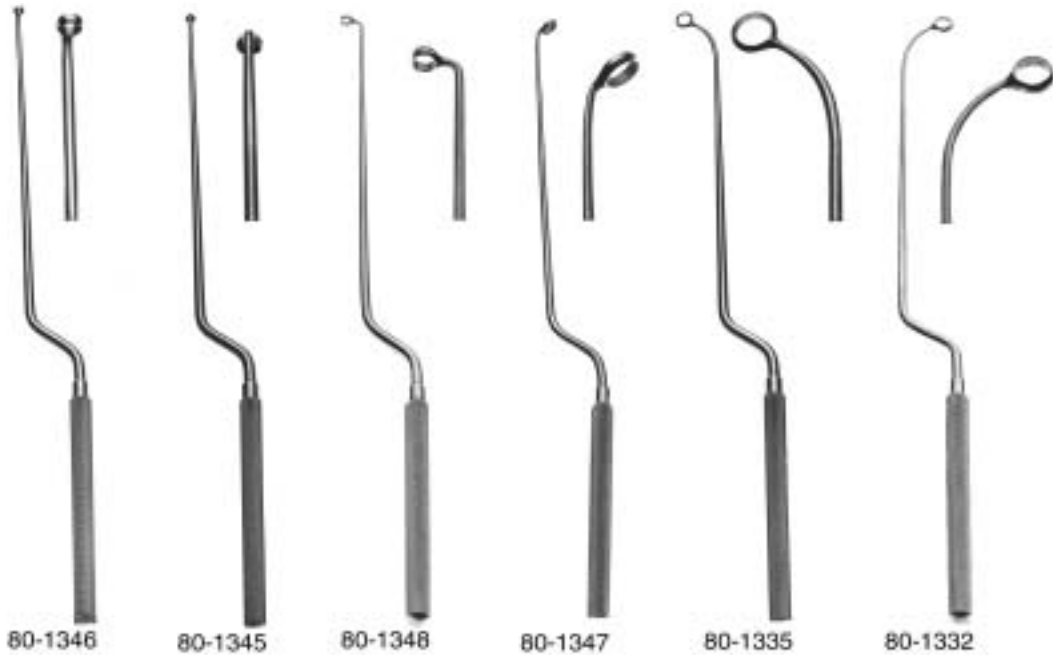
26-5006 CODMAN Nitrogen Regulator. Recommended for use with CODMAN Air Power System, includes color-coded pressure ranges marked on dial.



26-1247 CODMAN Wire Pass Drill, sterile. Disposable. Five per package.



CURETTES



HARDY Curettes, bayonet.		
Working distance	4¾"	(120mm)
Total length	9½"	241mm)
Type		Tip Width
80-1346	Angled up	3mm
80-1331	Angled up	5mm
80-1345	Angled down	3mm
80-1330	Angled down	5mm
80-1348	90° Left	3mm
80-1333	90° Left	5mm
80-1347	45° Right	3mm
80-1334	45° Right	5mm
80-1335	Curved left	5mm
80-1332	Curved right	5mm

To determine proper orientation, flat portion of handle should face table.

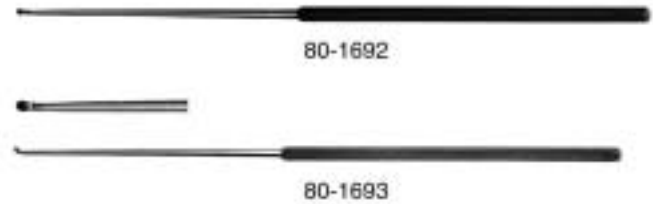


80-1536	MALIS Curette, bayonet, TITANIUM handle, stainless steel shaft.	
Working distance	4"	(102mm)
Tip width		2mm
Length	8"	(203mm)

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

CURETTES

	RHOTON Currettes, Titanium	
80-1692	Length	7½" (191mm)
	No. 13 straight	
	Tip width	1.6mm
80-1693	No. 14, 25° angle	
	Tip width	1.4mm



NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

DISPOSABLES ANEUROPLASTIC

43-1060 ANEUROPLASTIC* Kit, two complete sets consists of two bags sterile powder (net weight 30 grams each), two ampules sterile liquid (net contents 17 milliliters each), and two sterile matrix bags.



NEUROSURGERY
MICROSURGERY

DISPOSABLES CRANIOPLASTIC



43-1050 CRANIOPLASTIC* Kit, two complete sets, consists of two bags sterile powder (net weight 30 grams each), two vials sterile liquid (net contents 17 milliliters each) and two sterile matrix bags.



43-1006 SPENCE Cranioplastic Roller

DISPOSABLES TITANIUM MESH

43-1007 CARBORUNDUM Grinding Wheel, Jacobs fitting.



43-1022 TITANIUM Mesh
Sterile
Titanium Mesh is indicated for use with methyl methacrylate formulated for cranioplasty.
Size 6"x 6" (15cm x 15cm)
Wire diameter .010" (31g)
Mesh per inch 24 x 24



DISPOSABLES CRANIO-BLADES

26-1246 CODMAN Cranio-blade. Sterile, disposable, package of five.



NEUROSURGERY
MICROSURGERY

DISPOSABLES WIRE PASS DRILLS



26-1247 CODMAN Wire Pass Drill, sterile. Disposable.
Five per package.

DISPOSABLES MARKING PENS



43-1030 CODMAN Surgical Marker, gentian violet dye, regular tip, sterile,
disposable, packaged with 6" ruler, 36 per case.



43-1032 CODMAN Surgical Marker, gentian violet dye,
sterile, disposable, with 6" ruler, 36 per case.
Micro tip

DISPOSABLES PRESERVE

43-1033 CODMAN PRESERVE® Instrument Lubricant Concentrate, anti-microbial lubricant, supplied 4 gallons per case. Dilute 1 gallon PRESERVE® to 6 U.S. gallons of distilled or demineralized water.



DISPOSABLES SPONGES

CODMAN Surgical Patties, sterile, X-ray detectable, 10 patties per package, 20 packages per dispenser box.

80-1396	5/16" Round	.79cm
80-1397	1/4" x 1 1/2"	.64cm x 3.81cm
80-1398	1/4" x 3"	.64cm x 3.81cm
80-1399	1/4" x 1/4"	.64cm x .64cm
80-1400	1/2" x 1/2"	1.27cm x 1.27cm
80-1401	3/4" x 3/4"	1.91cm x 1.91cm
80-1402	1/2" x 1"	1.27cm x 2.54cm
80-1403	1" x 1"	2.54cm x 2.54cm
80-1404	1/2" x 1 1/2"	1.27cm x 3.81cm
80-1405	1 1/2" x 1 1/2"	3.81cm x 3.81cm
80-1406	1/2" x 2"	1.27cm x 5.08cm
80-1407	1/2" x 3"	1.27cm x 7.62cm
80-1408	1" x 3"	2.54cm x 7.62cm
80-1409	3" x 3"	7.62cm x 7.62cm



NEUROSURGERY
MICROSURGERY

DISPOSABLES SPONGES



CODMAN Surgical Strips, sterile,
X-ray detectable, 10 strips per package,
20 packages per dispenser box.

80-1449	1/8" x 6"	(3 x 152mm)
80-1450	1/4" x 6"	(6 x 152mm)
80-1451	1/2" x 6"	(13 x 152mm)
80-1452	3/4" x 6"	(19 x 152mm)
80-1453	1" x 6"	(25 x 152mm)
80-1454	1 1/2" x 6"	(38 x 152mm)
80-1455	2" x 6"	(51 x 152mm)
80-1456	3" x 6"	(76 x 152mm)
80-1457	3 1/2" x 6"	(89 x 152mm)



80-1460 BICOL* Collagen Sponge, sterile.
The BICOL Sponges are 3" (76mm) x 4"
(102mm) and packaged individually sterile,
sold ten packages per box.

DISPOSABLES PERFORATOR

26-1230 The CODMAN CRANIOTOMY KIT, sterile, disposable.
Consists of one each:
CODMAN Disposable Perforator
CODMAN Cranioblade
CODMAN Wire Pass Drill



26-1221 CODMAN Disposable Perforator
Single use, sterile, always sharp, disposable perforator. Designed for use in perforating the cranium.



NEUROSURGERY
MICROSURGERY

DISPOSABLES SCALP CLIPS



-
- 20-1032** LEROY Scalp Clips, sterile, disposable, plastic.
Adult
10 clips/package
20 packages/case
20-5117 LEROY Clip Applying Forcep.
- 20-1035** Infant size
10 clips/package
20 packages/case
Use with 20-5120 LEROY Clip Applying Forcep.
-



-
- 20-1034** LEROY-RANEY Scalp Clips, sterile, disposable, plastic.
10 clips/package
20 packages/case
Use with 20-5117 LEROY Clip Applying Forcep.
-



-
- 20-1025** RANEY Scalp Clips
Stainless steel.
12 clips/package
RANEY Scalp Clips
- 20-1037** Sterile, disposable, plastic.
10 clips/package
20 packages/case
-

Use with 20-5115 RANEY Clip Applying Forcep.

DISPOSABLES SCALP CLIP APPLIERS

CODMAN DISPOSABLE SCALP CLIP APPLIER, sterile, single use system designed to permit rapid application of scalp clips to the scalp flap for hemostasis during a craniotomy procedure. The applier is designed for one hand use with 12 pre-loaded Leroy-Raney design clips which are easily removed with specially designed CODMAN Disposable Scalp Clip Removal Forceps.

20-1038 CODMAN Disposable Scalp Clip Applier (10 per box)

20-1039 CODMAN Disposable Scalp Clip Removal Forceps



20-5117 LeROY Scalp Clip Applying Forceps
Adult size for use with 20-1032 or 20-1034
LeROY clips.

Length 7¼" (184mm)

20-5120 Infant size for use with 20-1035
Infant LeROY clips.

Length 7¼" (184mm)



20-5115 RANEY Scalp Clip Applying Forceps, use with
20-1037 or 20-1025 RANEY clips.

Length 6¼" (159mm)



DISSECTORS



		MAGNAFREE™ MRI Penfield Dissectors Non-Magnetic dissectors (titanium) for Interventional MRI. MRI safe up to 1.5 Tesla.
65-2402	No. 1	Broad curved dissector, and sharp round spoon, double ended Length 7" (178mm)
65-2403	No. 2	Slightly curved dissector, and wax packer, double ended Length 7¾" (197mm)
65-2404	No. 3	Full curved dissector and wax packer, double ended Length 7¾" (197mm)
65-2405	No. 4	Slightly curved dissector, light Length 8¼" (210mm)
65-2406	No. 5	Slightly curved blunt dissector, double ended Length 11½" (272mm)

DISSECTORS BAYONET



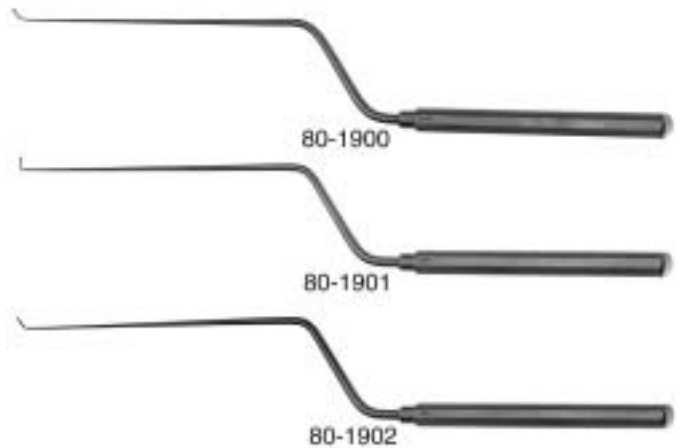
		HARDY Knife Handle, bayonet.
		Working distance 4¾" (121mm)
		Total length 9½" (241mm)
80-1313	Vertical	
80-1314	Lateral	

DISSECTORS BAYONET

	HARDY Micro Dissector, bayonet.		
	Working distance	4¾"	(120mm)
	Length	9½"	(241mm)
	Type		Tip Width
80-1315	Angled up		2mm
80-1316	Angled down		2mm



	SPETZLER Neuro-Vascular Dissectors Titanium, bayonet		
	Length	9½"	(241mm)
	Working distance	4"	(100mm)
80-1900	Small Teardrop, angled up 30°		
80-1901	Small Teardrop, angled up 90°		
80-1902	Small Spatula, angled up 30°		



NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

DISSECTORS STRAIGHT

80-1535	MALIS Dissector, angled, curved edge, semi-sharp, TITANIUM handle, stainless steel shaft.		
	Tip width		3.2mm
	Length	7⅞"	(187mm)
80-1539	MALIS Dissector, angled, sharp on three sides, TITANIUM handle, stainless steel shaft.		
	Tip width		1.3mm
	Length	7⅞"	(187mm)
	MALIS Dissectors, angled, round, TITANIUM handle, stainless steel shaft.		
	Length	7⅞"	(187mm)
80-1540	Tip width		2mm
80-1541	Tip width		1mm
80-1542	Tip width		3.5mm



NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

DISSECTORS STRAIGHT



65-1038 MILLIGAN Dissector, double-ended.
 Length 8½" (216mm)
 Tip sizes (14mm)
 (16mm)



65-1015 PENFIELD Dissectors
 Broad curved dissector, and sharp round spoon,
 double-ended.
 Length 7" (178mm)

65-1016 Slightly curved dissector, and wax packer,
 double-ended.
 Length 7¾" (197mm)

65-1017 Full curved dissector and wax packer, double-
 ended.
 Length 7¾" (197mm)

65-1018 Slightly curved dissector, light.
 Length 8¼" (210mm)

65-1019 Slightly curved blunt dissector, double-ended.
 Length 11½" (272mm)

DISSECTORS STRAIGHT

80-1660 RHOTON Micro Dissection Set is designed for use during aneurysm or tumor dissections, and has particular application for acoustic neuromas. The dissectors are manufactured from lightweight titanium for balance and durability. (Replaces 80-1695.)

RHOTON Micro Dissectors and Case
Includes:

- A. **80-1680** Round Dissector, small, #1, 1.3mm tip
 - B. **80-1681** Round Dissector, medium, #2, 2.3mm tip
 - C. **80-1682** Round Dissector, large, #3, 3.3mm tip
 - D. **80-1683** General Purpose Elevator, small, #4
 - E. **80-1684** General Purpose Elevator, large, #5
 - F. **80-1685** Spatula Dissector, small, #6, 1.1mm tip
 - G. **80-1686** Spatula Dissector, medium, #7, 1.7mm tip
 - H. **80-1687** Spatula Dissector, large, #8, 2.1mm tip
 - I. **80-1688** Semi-Sharp Hook, 90°, #9
 - J. **80-1689** Blunt Hook, 90°, #10
 - K. **80-1690** Semi-Sharp Hook, 45°, #11
 - L. **80-1691** Straight Point Needle, #12
 - M. **80-1692** Micro Curette, small, #13
 - N. **80-1693** Micro Curette, large, #14
 - O. **80-1679** Teardrop Dissector Str., #15
 - P. **80-1696** Teardrop Dissector, 90°, #16, 3mm tip
 - Q. **80-1697** Teardrop Dissector, 90°, #17, 5mm tip
 - R. **80-1698** Teardrop Dissector, 40°, #18, 4mm tip
 - S. **80-1699** Teardrop Dissector, 40°, #19, 8mm tip
- 80-1661** Sterilizing-Carrying Case



DISSECTORS STRAIGHT



80-1691	RHOTON #12 Straight Point Needle, semi-sharp, TITANIUM.		
	Tip width		.8mm
	Length	7½"	(191mm)

NOTE: See back of NEUROSURGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

DRILLS/BURRS/GUIDES



15-1010	ADSON Perforating Burr, four bladed.		
	Diameter	⅞"	(14mm)
	Length	3¾"	(95mm)



	CUSHING Burrs		
15-1000	Diameter	⅜"	(10mm)
	Length	3½"	(89mm)
15-1001	Diameter	⅝"	(15mm)
	Length	3¾"	(95mm)
15-1002	Diameter	¾"	(20mm)
	Length	4"	(102mm)



	CUSHING Perforator Drills		
26-1000	Diameter	⅜"	(9mm)
	Length	4"	(102mm)
26-1001	Diameter	½"	(13mm)
	Length	4"	(102mm)
26-1002	Diameter	⅝"	(16mm)
	Length	4"	(102mm)



26-1008	RANEY Perforator Drill with adjustable depth guard.		
	Diameter	½"	(13mm)
	Length	4"	(102mm)

DRILLS/BURRS/GUIDES

15-1004	McKENZIE Enlarging Burr		
	Diameter	$\frac{1}{16}$ "	(17mm)
	Length	5"	(127mm)



26-1004	McKENZIE Perforator Drill, high-speed steel.		
	Diameter	$\frac{1}{2}$ "	(13mm)
	Length	$3\frac{3}{4}$ "	(94mm)



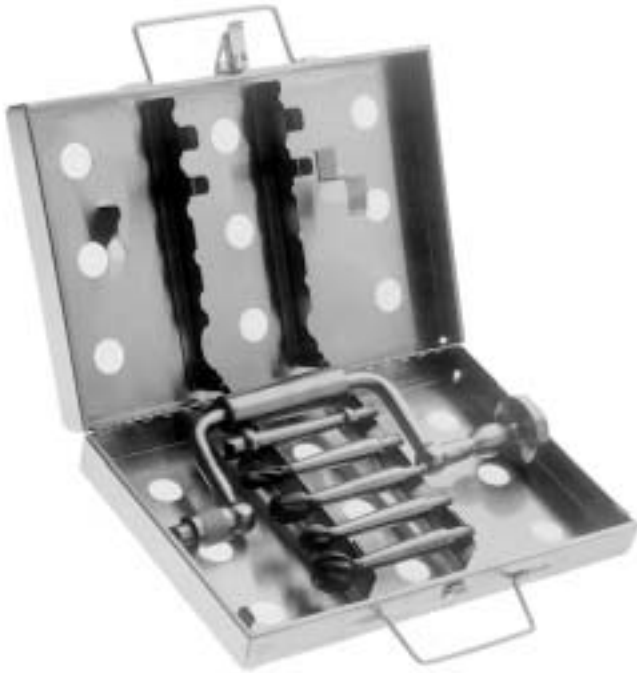
26-1088	MATHEWS Hand Drill, with knurled shank and rotating head, supplied with one each size MATHEWS Drill points.		
	Length of handle	$4\frac{1}{2}$ "	(114mm)
	MATHEWS Drill Points		
26-1180	Diameter		4mm
	Length	$1\frac{1}{4}$ "	(32mm)
26-1181	Diameter		6mm
	Length	$1\frac{7}{8}$ "	(48mm)



26-1006	D'ERRICO Perforator Drill and Enlarging Burr		
	Diameter	$\frac{5}{8}$ "	(16mm)
	Length	$3\frac{5}{8}$ "	(92mm)



DRILLS/BURRS/GUIDES



-
- 26-1075** HUDSON Cranial Drill Set.
Consists of one of each:
15-1005 Burr (9mm)
15-1006 Burr (14mm)
15-1007 Burr (16mm)
15-1008 Burr (22mm)
80-1002 Cerebellar extension
26-1041 Brace
21-1002 Sterilizing case
-



-
- 26-1041** HUDSON Brace, with snap-lock chuck.
Length 9 $\frac{3}{4}$ " (248mm)
-



-
- 80-1002** HUDSON Cerebellar Extension
Length 4" (102mm)
-

DRILLS/BURRS/GUIDES

HUDSON Burrs			
15-1005	Diameter	3/8"	(10mm)
	Length	4"	(102mm)
15-1006	Diameter	9/16"	(14mm)
	Length	4"	(102mm)
15-1007	Diameter	5/8"	(16mm)
	Length	4"	(102mm)
15-1008	Diameter	7/8"	(22mm)
	Length	4"	(102mm)



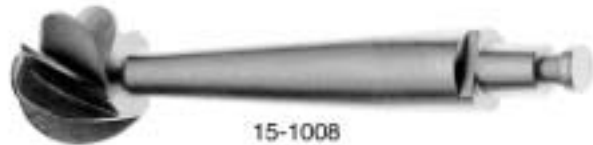
15-1005



15-1006



15-1007



15-1008

26-1045	DEPTH Check Drill, supplied with six drills.		
	Length	2 3/4"	(70mm)
26-1046	TWIST Drill for 26-1045		
	Diameter	1/16"	(2mm)
	Length	2 1/4"	(57mm)



DRILLS/BURRS/GUIDES



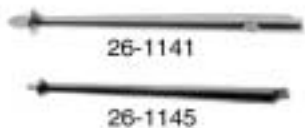
26-1080 BUNNEL Hand Drill with Jacobs chuck.
Chuck size $\frac{5}{32}$ " (4mm)



26-1085 CHILDREN'S HOSPITAL Hand Drill, hexagonal handle, supplied with three (26-1086) twist drills.
Handle length $4\frac{1}{8}$ " (105mm)
Twist Drill diameter (4.2mm)



26-1086 TWIST DRILL for 26-1085
Diameter $\frac{3}{16}$ " (4.2mm)
Length $3\frac{1}{4}$ " (83mm)



CRUTCHFIELD Drill Points
26-1141 Small Tip Diameter 2.4mm
26-1142 Large Tip Diameter 3mm
26-1145 RANEY-CRUTCHFIELD Drill Point
Tip Diameter .8mm



14-1000 ADSON Drill Guide and Dura Protector, Angled on side with hole in jaw.
Jaw length $\frac{3}{4}$ " (19mm)
Hole diameter $\frac{1}{8}$ " (3mm)
Total length 6" (152mm)

ELEVATORS

65-2549 CARROLL Periosteal Elevator, double-ended.
 Blade width $\frac{1}{8}$ " (3mm)
 Blade width $\frac{3}{8}$ " (10mm)
 Length $5\frac{1}{2}$ " (140mm)



65-1047 CUSHING Little Joker Periosteal Elevators
 Hollow handle
 Blade width $\frac{1}{4}$ " (6mm)
 Length 6" (152mm)

65-1048 Solid handle
 Blade width $\frac{1}{4}$ " (6mm)
 Length $7\frac{1}{2}$ " (191mm)



65-1045 CUSHING Staphylorrhaphy Elevators
 Blade width $\frac{1}{4}$ " (6mm)
 Round handle Length $8\frac{1}{2}$ " (216mm)



65-1075 CUSHING Periosteal Elevators, sharp, wide.
 Rounded edge
 Blade width $\frac{5}{8}$ " (16mm)
 Length $7\frac{1}{4}$ " (184mm)

65-1076 Square edge
 Blade width $\frac{5}{8}$ " (16mm)
 Length $7\frac{1}{4}$ " (184mm)

ELEVATORS



65-1092 CUSHING Periosteal Elevator, sharp, narrow, Gutsch handle.
 Blade width $\frac{3}{16}$ " (5mm)
 Length $7\frac{5}{8}$ " (194mm)



65-1115 LANGENBECK Periosteal Elevators
 Narrow
 Blade width $\frac{1}{4}$ " (6mm)
 Length $8\frac{1}{4}$ " (206mm)



65-1116 Wide
 Blade width $1\frac{1}{16}$ " (17mm)
 Length $7\frac{1}{2}$ " (191mm)



MAGNAFREE™ MRI Langenbeck Periosteal Elevators
 Non-Magnetic Elevators (titanium) for Interventional MRI. MRI safe up to 1.5 Tesla

65-2409 MRI Langenbeck Periosteal Elevator
 Narrow
 Blade Width $\frac{1}{4}$ " (6mm)
 Length $8\frac{1}{4}$ " (206mm)

65-2410 MRI Langenbeck Periosteal Elevator
 Wide
 Blade Width $1\frac{1}{16}$ " (17mm)
 Length $7\frac{1}{2}$ " (191mm)



MAGNAFREE™ MRI Woodson Elevator and Spatula
 Non-Magnetic (titanium) for Interventional MRI. MRI safe up to 1.5 Tesla.

65-2423 MRI Woodson Elevator and Spatula, double-ended, semi-sharp
 Blade Width $\frac{1}{8}$ " (3mm)
 Blade Depth $\frac{1}{2}$ " (13mm)
 Total Length 10" (254mm)

ELEVATORS

	MALIS Elevators, TITANIUM handles, stainless steel shafts.		
80-1537	Straight, curved tip		
	Tip width		3.5mm
	Length	7¼"	(184mm)
80-1538	Bayonet, curved tip		
	Working distance	4"	(102mm)
	Tip width		3.5mm
	Length	8"	(203mm)



	PRESBYTERIAN HOSPITAL Staphylorrhaphy Elevators, double-ended, semi-sharp and sharp blades.		
	Blade width		(4mm)
	Length	7"	(178mm)
65-1005	Straight		
65-1006	Curved		



	RHOTON General Purpose Elevators, straight, blunt, TITANIUM.		
	Length	7½"	(191mm)
80-1683	Angular, No. 4		
	Tip width		1.2mm
80-1684	Curved, No. 5		
	Tip width		2.2mm



NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

65-1008	SUNDAY Staphylorrhaphy Elevator, blunt, slightly curved.		
	Blade width		(3mm)
	Length	9"	(229mm)



ENDOSCOPY



83-1353 CODMAN Rigid Endoscope Holder
This holder has an I.D. of 8.01mm with two additional sleeves, 6.51mm and 5.7mm I.D.; it is designed for use with the following Stabilization Products:

- 50-4581** BOOKWALTER™ Table Post
- 50-4554** BOOKWALTER Post Coupling
- 50-4582** BOOKWALTER Horizontal Flex Bar
- 50-4552** BOOKWALTER Horizontal Bar

The CODMAN Rigid Endoscope Holder is designed for the following CODMAN Rigid Endoscopes:

83-1540 GAAB Neuroendoscope System



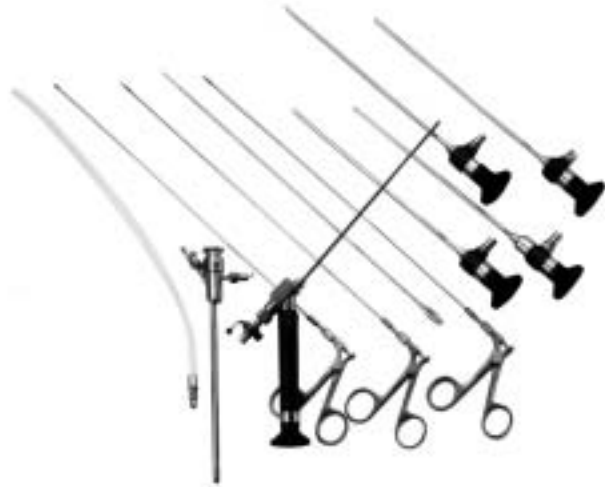
83-1352 CODMAN Steerable Endoscope Holder
A table mounted fixation device designed for use with the CODMAN Steerable Neuroendoscope (83-1340).

The following Stabilization Products are required:

- 50-4581** BOOKWALTER™ Table Post
 - 50-4554** BOOKWALTER Post Coupling
 - 50-4582** BOOKWALTER Horizontal Flex Bar, or
 - 50-4552** BOOKWALTER Horizontal Bar
-

GAAB Neuroendoscope System is designed for diagnostic orientation within the ventricular system, and therapeutic procedures such as ventriculostomies, biopsies, and removal of cysts, tumors, and other obstructions.

- 83-1540** GAAB Neuroendoscope System
Includes:
- *83-1520** HOPKINS® Operating Telescope, Straight Forward, 0°
With angled eyepiece, wide angle lens, instrument channel and fiberoptic connector. Two fiberoptic adapters included to allow connection of various standard fiberoptic cables.
 - 83-1521** Operating Sheath, 6.5mm
With obturator and ports for irrigation tube and for suction. (Barb fittings also included for use with nonluer suction connections.)
 - 83-1522** Telescope Bridge, required for use with diagnostic telescopes (Catalog No. 83-1523 through 83-1528)
 - *83-1523** HOPKINS Diagnostic Telescope, Straight Forward, 0°, autoclavable, color-coded green, 4mm
 - *83-1524** HOPKINS Diagnostic Telescope, Forward Oblique, 30°, autoclavable, color-coded red, 4mm
 - *83-1527** HOPKINS Diagnostic Telescope, Lateral, 70°, non-autoclavable, color-coded yellow, 4mm
 - *83-1528** HOPKINS Diagnostic Telescope, Retrospective, 120°, non-autoclavable, color-coded white, 4mm
 - 83-1529** Grasping Forceps with Teeth, 5Fr.
 - 83-1530** Grasping Forceps, Pointed, with Tooth, 5Fr.
 - 83-1531** Biopsy Forceps, 5Fr.
 - 83-1534** Injection Needle, 5Fr.
 - 83-1538** Irrigation Tube, 6Fr.
 - 83-1573** Protection Tube, 1 each (GAAB Neuroendoscope System supplied with 5) (not shown)
 - 83-1539** Storage Case (not shown)



*Shipped in Protection Tube 83-1573

- 83-1372** Flexible-Endoscopic Grasping Forceps, 1mm
- 83-1373** Flexible-Endoscopic Biopsy Forceps, 1mm



ENDOSCOPY



83-1340 CODMAN STEERABLE Neuroendoscope
 Combines a high quality fiberoptic image with the flexibility and steerability required for many neuroendoscopic applications. High quality fiberoptics provide a 5-50mm depth of field. A 90° field of view in air , 64° field of view in water delivers enhanced imaging for diagnostic and therapeutic procedures. Working length of 38cm, working channel of 3 Fr. (1mm), steerability affords scope tip articulation of 100°/ 160° for enhanced maneuverability around anatomical structures.

Kit includes:

- 83-1341** CODMAN STEERABLE Endoscope Tester
- 83-1342** CODMAN STEERABLE Endoscope Vent Cap
- 83-1343** CODMAN STEERABLE Endoscope Brushes (10/Pack)

Accessories available:

- 83-1367** ME²® (Micro Endoscopic Electrode)
 - 83-1372** CODMAN Flexible Endoscopic Grasping Forceps, 1mm Tip
 - 83-1373** CODMAN Flexible Endoscopic Biopsy Forceps, 1mm Tip
 - 83-1325** CODMAN Peel-Away Catheter Introducer, 12.5 Fr., Sterile, 10/Box
 - 83-1326** CODMAN Peel-Away Catheter Introducer, 14.0 Fr., Sterile, 10/Box
 - 83-1302** CODMAN Irrigation Adapter, Sterile, 10/Box
 - 83-1374** WELCH ALLYN VDX-300 Imaging & Illumination Platform
-



EPIC MICROVISION Semi-Flexible Endoscope Kit

The EPIC MICROVISION Semi-Flexible Endoscope is a sterile, light-weight stylet-like instrument with irrigation.

- 83-1360** EPIC MICROVISION Semi-Flexible Endoscope Cannula O.D. 1.8 mm Fiber bundle O.D. 1mm
 Accessories:
 - 83-1357** Coupler (required for use of endoscope kit)
 - 83-1356** ACMI light cable (1mm light bundle)
 - 83-1355** Eye Piece (required for B-Mount Cameras)
-

CODMAN WELCH ALLYN VDX-300 Illumination & Imaging Platform

A compact light source with a proximal camera, which can be attached to a variety of rigid or flexible scopes. System setup is simple and convenient because both light and video are combined in a single package.

System Includes:

- Platform box with internal light source and camera processor
- Proximal camera assembly
- Optical Coupler
- Fiber Optic light bundle
- Fiber Optic scope adapters
- Video Cables (Composite and S-Video)
- Spare lamp
- Instruction Manual



CODMAN WELCH ALLYN VDX-300 Illumination & Imaging Platform

- 83-1374 NTSC
- 83-1375 PAL (International)
- 83-1378 Replacement Bulb

- 83-1367 ME²® Micro Endoscopic Electrode with cable
The ME²® (Micro Endoscope Electrode) is a flexible electrosurgical instrument designed for use with either flexible or rigid endoscopes having operating channels of 3 french (1mm) or larger. Multiple settings for optimal results. Monopolar Cable length 60cm. Deliver precise monopolar cutting, fenestration and dissection during endoscopic procedures. Sterile, single-use product includes ME², disposable Touhy-Borst adaptor and Monopolar Cable.



ENDOSCOPY



83-1368 EPIC Bipolar Forceps
Sterile, Disposable Bipolar Coagulation Device. Has 2.5mm diameter insulated shaft with a 26cm working length.



83-1302 CODMAN NEUROGUIDE Irrigation Adaptor. Touhy Borst Adaptor with a side port. Converts the single port of the CODMAN Steerable Endoscope (83-1340) into two ports for irrigation or aspiration of the operation channel while using instrumentation. Sterile. 10/case.



83-1335 NEUROGUIDE* Sterilizing Tray
Used in sterilization/storage of the CODMAN Steerable Endoscope (83-1340).

83-1371 Slit Ventricular Catheter
 Pre-slit HOLTER® design ventricular catheter for endoscopic shunt placement. Barium-impregnated radiopaque silicone tubing with multiple tip perforations. I.D. 1.5mm, O.D. 3mm, length 15cm
 X-ray detectable dots: one dot at 5cm from the tip, two dots at 10cm from the tip
 Packaged sterile.
 Use with the EPIC MICROVISION Semi-Flexible Endoscope Kit (83-1360) for shunt placement system.



FORCEPS BIPOLAR

80-2964 ADSON Non-Stick Mirror Finish Bipolar Forceps, straight.
 Tip width 1mm
 Length 4¾" (120mm)



80-2947 CODMAN Non-Stick Mirror Finish Trigeminal Bipolar Forceps, bayonet, Titanium.
 Working distance 3½" (89mm)
 Tip width .4mm
 Length 7⅝" (186mm)
 45° Angled up
80-2948 45° Angled down



80-2968 COAPTATION Non-Stick Mirror Finish Bipolar Forceps, straight.
 Small
 Tip width .25mm
 Length 4" (102mm)



**NEUROSURGERY
MICROSURGERY**

FORCEPS BIPOLAR



	CUSHING Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		1.65mm
	Length	7"	(178mm)
80-2925	Forceps only		
80-2920	Forceps with insulation		



	E-SERIES* Non-Stick Mirror Finish Bipolar Forceps, straight, TITANIUM. Unique tip alignment system.		
	Closing Pressure 75 gms. (approximate)		
	Length	6"	(150mm)
80-2962	Fine	Tip width	.3mm
80-2963	Regular	Tip width	1mm



80-2924	GERALD Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		.9mm
	Length	7"	(178mm)



	GREENWOOD Non-Stick Mirror Finish Bipolar and Suction Forceps, bayonet.		
	Working distance	3¼"	(83mm)
	Tip width		1.75mm
	Length	7½"	(191mm)
80-2983	Forceps		
80-2984	Forceps with insulation		



80-2911	HARDY Non-Stick Mirror Finish Bipolar Forceps, bayonet.		
	Working distance	4¾"	(121mm)
	Tip width		.7mm
	Length	8¼"	(210mm)
80-3060	HARDY Non-Stick Mirror Finish Insulated Bipolar Forceps, bayonet.		
	Working distance	4¾"	(121mm)
	Tip width		.7mm
	Length	8¼"	(210mm)

FORCEPS BIPOLAR

	IRIS Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		.6mm
80-2965	Length	3 ⁵ / ₈ "	(92mm)
80-2966	Curved		



80-2926	JEWELERS #5 Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		.35mm
	Length	4 ³ / ₈ "	(111mm)



	MALIS Non-Stick Mirror Finish Bipolar Forceps, straight, TITANIUM.		
80-2940	Length	6"	(152mm)
	Fine	Tip width	.4mm
80-2945	Extra fine	Tip width	.25mm



	MALIS* Non-Stick Mirror Finish Bipolar Coagulation and Cutting Forceps Specifically designed for use with the MALIS* CMC-III (80-1170, 80-1171). Forceps are insulated stainless steel.		
80-2914	Straight		
	Tip width	.2mm	
	Length	5 ¹ / ₂ "	(140mm)
80-2915	Straight		
	Tip width	.2mm	
	Length	6 ³ / ₄ "	(172mm)
80-2916	Bayonet		
	Tip width	.2mm	
	Length	7 ³ / ₄ "	(197mm)



NEUROSURGERY
MICROSURGERY

FORCEPS BIPOLAR



80-2923	MALIS-JENSEN Non-Stick Mirror Finish Bipolar Forceps, bayonet.		
	Working distance	4"	(101mm)
	Tip width		.25mm
	Length	7½"	(191mm)



80-2991	MALIS-JENSEN Non-Stick Mirror Finish Insulated Forceps, bayonet.		
	Tip width		.5mm
	Length	7½"	(191mm)



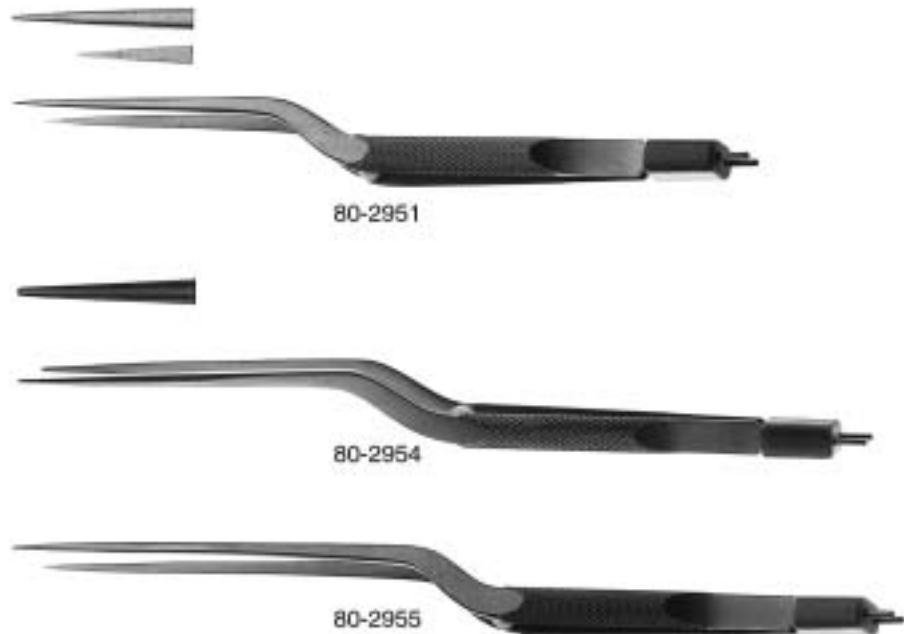
80-2922	MALIS Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		.75mm
	Length	5"	(140mm)



	MALIS Non-Stick Mirror Finish Bipolar Forceps, bayonet.		
	Working distance	3¼"	(83mm)
	Tip width		1.5mm
	Length	7"	(178mm)
80-2912	Forceps only		
80-2921	Forceps with insulation		

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

FORCEPS BIPOLAR



	RHOTON Non-Stick Mirror Finish Bipolar Forceps, bayonet, TITANIUM		
	Working distance	3½"	(89mm)
	Length	8¼"	(210mm)
80-2951	Fine	Tip width	.45mm
80-2952	Regular	Tip width	1mm
	Working distance	4"	(102mm)
	Length	9"	(229mm)
80-2953	Fine	Tip width	.5mm
80-2954	Regular	Tip width	1mm
	Working distance	4¾"	(120mm)
	Length	9¾"	(248mm)
80-2955	Fine	Tip width	.7mm

	RHOTON Bipolar Forceps, bayonet, TITANIUM.		
	Working distance	3¾"	(95mm)
	Length	8⅞"	(225mm)
80-2956	Fine	Tip width	.5mm
80-2957	Medium	Tip width	.7mm
80-2958	Regular	Tip width	1.0mm
80-2959	Large	Tip width	1.5mm

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

	RHOTON Non-Stick Mirror Finish Bipolar Forceps, straight, TITANIUM.		
	Length	7"	(178mm)
80-2949	Fine	Tip width	.45mm
80-2950	Regular	Tip width	1mm



NEUROSURGERY
MICROSURGERY

FORCEPS BIPOLAR

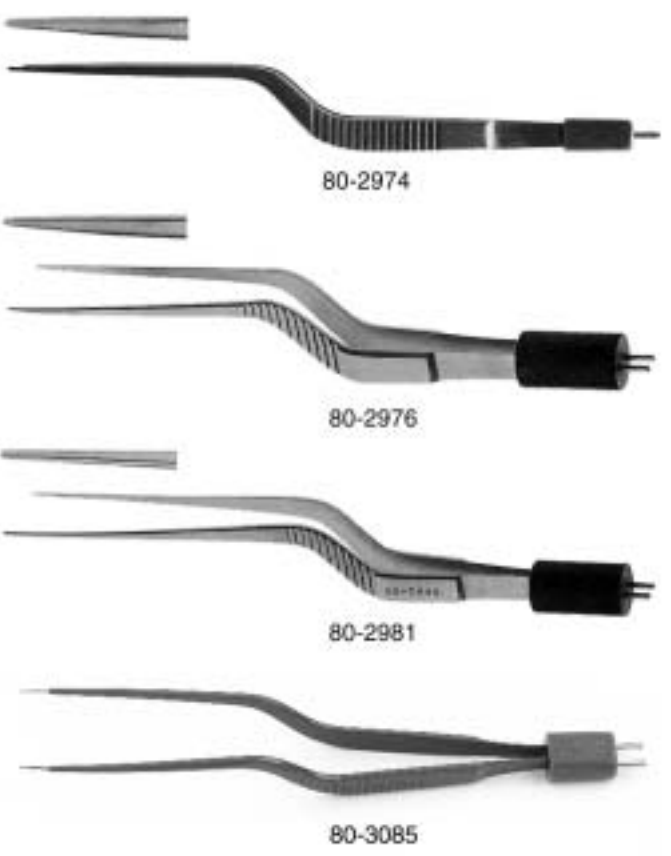


SPETZLER Non-Stick Mirror Finish Neuro-Vascular Bipolar Forceps Titanium, bayonet			
	Length	9 ⁷ / ₈ "	(251mm)
	Working distance	4"	(100mm)
			Tip size
80-2960	Bipolar Forceps,	straight tip	.9mm
80-2961	Bipolar Forceps,	30° angled tip	.9mm

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.



80-2967	STANDARD Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		.5mm
	Length	3 ⁵ / ₈ "	(92mm)



YASARGIL Non-Stick Mirror Finish Bipolar Forceps, bayonet.			
	Working distance	2 ¹ / ₂ "	(64mm)
	Length	6 ³ / ₄ "	(171mm)
80-2972	Fine	Tip width	.5mm
80-2973	Medium	Tip width	.7mm
80-2974	Regular	Tip width	1mm
	Working distance	3"	(76mm)
	Length	7 ¹ / ₄ "	(184mm)
80-2975	Fine	Tip width	.5mm
80-2976	Medium	Tip width	.7mm
80-2977	Regular	Tip width	1mm
80-2978	Large	Tip width	1.3mm
	Working distance	4"	(102mm)
	Length	8 ¹ / ₄ "	(210mm)
80-2979	Fine	Tip width	.5mm
80-2980	Medium	Tip width	.7mm
80-2981	Regular	Tip width	1mm
80-2982	Large	Tip width	1.3mm
YASARGIL Non-Stick Mirror Finish Insulated Bipolar Forceps, bayonet.			
	Working distance	2 ¹ / ₂ "	(64mm)
	Length	6 ³ / ₄ "	(171mm)
80-3084	Medium	Tip width	.7mm
80-3085	Regular	Tip width	1mm
	Working distance	4"	(102mm)
	Length	8 ¹ / ₄ "	(210mm)
80-3086	Large	Tip width	1.3mm

FORCEPS BIPOLAR INSULATED

New Codman Non Stick Mirror Finish Bipolar Insulated Forceps

Code #	Description	Style	Length	Alloy	Tip Size	Type
80-2985	Malis	Bayonet	8¾"	Titanium	.25mm	Irrigating
80-2986	Malis	Bayonet	8¾"	Titanium	.5mm	Irrigating
80-2987	Malis	Bayonet	8¾"	Titanium	.1mm	Irrigating
80-2988	Malis	Bayonet	8¾"	Titanium	.1.5mm	Irrigating
80-2989	Malis	Bayonet	8¾"	Titanium	.5mm	Irrigating
80-2990	Malis	Bayonet	7¾"	Titanium	1.5mm	Irrigating
80-2991	Malis-Jenson	Bayonet	7½"	Titanium	.5mm	Irrigating
80-2992	Malis	Bayonet	8¾"	Titanium	.4mm	Irrigating
80-2993	Malis	Bayonet	8¾"	Titanium	1mm	Irrigating
80-2994	Malis	Bayonet	8¾"	Titanium	1.5mm	Irrigating
80-2995	Malis	Straight	6"	Titanium	.4mm fine	Irrigating
80-2996	Malis	Bayonet	10¾"	Titanium	.25mm	Irrigating
80-2997	Malis	Bayonet	10¾"	Titanium	.5mm	Irrigating
80-2998	Malis	Bayonet	10¾"	Titanium	1mm	Irrigating
80-2999	Malis	Bayonet	10¾"	Titanium	1.5mm	Irrigating
80-3050	Malis	Bayonet	8¾"	Titanium	1mm	Irrigating
80-3060	Hardy	Bayonet	8¼"	Titanium	.7mm	Irrigating
80-3062	Rhoton	Bayonet	8¼"	Titanium	.25mm	Irrigating
80-3063	Rhoton	Bayonet	8¼"	Titanium	.5mm	Irrigating
80-3064	Rhoton	Bayonet	8¼"	Titanium	.7mm	Irrigating
80-3065	Rhoton	Bayonet	8¼"	Titanium	1mm	Irrigating
80-3070	Rhoton	Bayonet	9"	Titanium	.25mm	Irrigating
80-3071	Rhoton	Bayonet	9"	Titanium	.5mm	Irrigating
80-3072	Rhoton	Bayonet	9"	Titanium	.7mm	Irrigating
80-3073	Rhoton	Bayonet	9"	Titanium	1mm	Irrigating
80-3076	Rhoton	Bayonet	7"	Titanium	.7mm	Irrigating
80-3077	Rhoton	Bayonet	10¾"	Titanium	.25mm	Irrigating
80-3078	Rhoton	Bayonet	10¾"	Titanium	.5mm	Irrigating
80-3079	Rhoton	Bayonet	10¾"	Titanium	.7mm	Irrigating
80-3080	Rhoton	Bayonet	10¾"	Titanium	1mm	Irrigating
80-3084	Yasargil	Bayonet	6¾"	Titanium	.7mm	Irrigating
80-3085	Yasargil	Bayonet	6¾"	Titanium	1mm	Irrigating
80-3086	Yasargil	Bayonet	8¼"	Titanium	1.3mm	Irrigating

NEUROSURGERY
MICROSURGERY

FORCEPS, BIPOLAR IRRIGATING

MALIS Non-Stick Mirror Finish Bipolar Irrigating Forceps, used in conjunction with the Malis Irrigation Module (80-1164)



Code #	Style	Length	Alloy	Tip Configuration	Tip Size
80-1230	Bayonet	8¾" (22.4cm)	Insulated Titanium	Circular Loop	5mm
80-1231	Bayonet	8¾" (22.4cm)	Insulated Titanium	Circular Loop	7mm
80-1232	Bayonet	8¾" (22.4cm)	Insulated Titanium	Circular Loop	10mm
80-2900	Bayonet	8½" (21.8cm)	Insulated Stainless	Straight	0.70mm
80-2901	Bayonet	7¾" (19.7cm)	Insulated Stainless	Straight	1.0mm
80-2902	Bayonet	8½" (21.8cm)	Titanium	Straight	0.50mm
80-2903	Bayonet	7¾" (19.7cm)	Insulated Stainless	Straight	0.25mm
80-2904	Bayonet	8¾" (22.4cm)	Titanium	Straight	1.5mm
80-2905	Bayonet	8¾" (22.4cm)	Titanium	Straight	1.0mm
80-2906	Bayonet	8¾" (22.4cm)	Titanium	Straight	0.25mm
80-2913	Straight	5" (13.9cm)	Insulated Stainless	Straight	0.75mm
80-2917	Straight	5" (13.9cm)	Insulated Stainless	Straight	0.25mm
80-2918	Straight	7" (18cm)	Insulated Stainless	Straight	0.25mm
80-2919	Bayonet	7¾" (19.7cm)	Insulated Stainless	Straight	0.25mm
80-2927	Straight	6" (15.2cm)	Titanium	Straight	0.25mm
80-2928	Straight	6" (15cm)	Titanium	Straight	0.45mm
80-2929	Bayonet	8¾" (22.4cm)	Titanium	Angle Up	0.50mm
80-2930	Bayonet	8¾" (22.4cm)	Titanium	Angle Down	0.50mm
80-2931	Bayonet	8¾" (22.4cm)	Titanium	90° Blunt Curve Up	0.75mm
80-2932	Bayonet	8¾" (22.4cm)	Titanium	90° Blunt Curve Down	0.75mm
80-2985	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Straight	0.25mm
80-2986	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Straight	0.5mm
80-2987	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Straight	1mm
80-2988	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Straight	1.5mm
80-2989	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Angle Up	0.5mm
80-2990	Bayonet	7¾" (19.7cm)	Insulated	Straight	1.5mm
80-2991	Bayonet	7½" (19.1cm)	Insulated	Straight	5mm
80-2992	Bayonet	7½" (19.1cm)	Insulated Titanium	Straight	4mm
80-2993	Bayonet	7½" (19.1cm)	Insulated Titanium	Straight	1mm
80-2994	Bayonet	7½" (19.1cm)	Insulated Titanium	Straight	1.5mm
80-2995	Straight	6" (15cm)	Insulated Titanium	Straight	4mm
80-2996	Irrigating Bayonet	10¾" (27.3cm)	Insulated Titanium	Straight	25mm
80-2997	Irrigating Bayonet	10¾" (27.3cm)	Insulated Titanium	Straight	5mm
80-2998	Irrigating Bayonet	10¾" (27.3cm)	Insulated Titanium	Straight	1mm
80-2999	Irrigating Bayonet	10¾" (27.3cm)	Insulated Titanium	Straight	1.5mm
80-3050	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Straight Forcep - Duck Billed	1mm

FORCEPS BIPOLAR IRRIGATING

The nine patterns of RHOTON Bipolar Irrigating Forceps include two bayonet forceps with four tip sizes each, and one straight forceps. The unique feature of these forceps is that the irrigation pipe is completely recessed into the right blade of the forceps. This offers the surgeon increased visibility at the forceps tips. The bayonet pattern are offered in two lengths, short (8cm working distance) and long (9cm working distance), which are needed for superficial and deep operations. Each length is offered with four distal tip widths.



RHOTON Non-Stick Mirror Finish Bipolar Irrigation Forceps, Titanium

	Working Distance	3.2"	(8cm)
	Length	8¼"	(21cm)
80-2907	Bayonet	Tip Width	0.25mm
80-2933	Bayonet	Tip Width	0.50mm
80-2908	Bayonet	Tip Width	0.70mm
80-2934	Bayonet	Tip Width	1.00mm
	Working Distance	3.7"	(9.5cm)
	Length	9"	(22.5cm)
80-2909	Bayonet	Tip Width	0.25mm
80-2935	Bayonet	Tip Width	0.50mm
80-2910	Bayonet	Tip Width	0.70mm
80-2936	Bayonet	Tip Width	1.00mm
80-2937	Straight Length	7"	(18cm)
		Tip Width	.7mm

80-1130 Stylets – set of 10/replacements for preventive maintenance and care of the microtube on MALIS & RHOTON Bipolar Irrigation Forceps.



NEUROSURGERY
MICROSURGERY

FORCEPS MONOPOLAR CORDS



29-1001	FRAZIER Cautery Cord, with plug to fit standard Bovie.		
	Length	12'	(3.66m)



29-1002	BUCY-FRAZIER Cautery Cord		
	Length	11'	(3.35m)



29-1003	FRAZIER Cautery Cord, with plug to fit CSV Bovie.		
	Length	12'	(3.66m)



29-1013	POP PEN Cautery Cord		
	Length	11'	(3.35m)

FORCEPS MONOPOLAR

30-1257 CUSHING Monopolar Forceps, bayonet, with insulation.
 Working distance 3" (76mm)
 Tip width 1.5mm
 Length 7¾" (197mm)



30-1240 DAVIS Monopolar Forceps, bayonet.
 Working distance 3¾" (95mm)
 Tip width 1.5mm
 Length 6½" (165mm)
30-1243 Forceps only
 Forceps with insulation



30-1161 JANSEN Monopolar Forceps, bayonet, with insulation.
 Working distance 3¾" (95mm)
 Tip width 1.5mm
 Length 8¾" (222mm)



30-4856 DECKER Microsurgical Forceps, alligator action, serrated jaws.
 Tip width 1.4mm
 Shaft length 6" (152mm)



FORCEPS ALLIGATOR

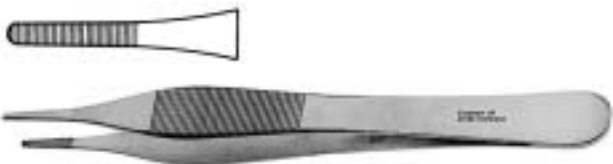
NEUROSURGERY
MICROSURGERY

FORCEPS ALLIGATOR



30-1230	HOEN Angular Forceps, alligator action, 1x2 teeth.		
	Tip width		2.2mm
	Shaft length	5½"	(140mm)

FORCEPS DRESSING



30-1190	ADSON Dressing Forceps, standard pattern.		
	Tip width		2mm
	Length	7"	(178mm)



30-1191	ADSON Dressing Forceps, bayonet shape.		
	Working distance	3⅝"	(92mm)
	Tip width		2mm
	Length	7½"	191mm



30-1181	BRAIN Dressing Forceps, narrow, serrated.		
	Tip width		1mm
	Length	7"	(178mm)

FORCEPS DRESSING

	CUSHING Dressing Forceps, serrated, dissecting end.		
	Length	7"	(178mm)
30-1150	Serrated handle	Tip width	1.5mm
30-1151	Gutsch handle	Tip width	1.7mm
30-1152	Serrated handle, fine tip	Tip width	1.3mm



30-1154	CUSHING Dressing Forceps, serrated.		
	Tip width		1.8mm
	Length	7 ³ / ₄ "	(197mm)



Tip width is measured 1mm from the instrument tip.

	CUSHING DRESSING Forceps, serrated, bayonet shape, dissecting end.		
	Length	7 ¹ / ₄ "	(184mm)
30-1155	Working distance	3"	(76mm)
	Tip width		1.8mm
	Length	7 ³ / ₄ "	(197mm)
30-1156	Working distance	3 ¹ / ₂ "	(89mm)
	Tip width		1.4mm



30-1203	D'ERRICO Dressing Forceps, serrated, bayonet shape.		
	Working distance	3 ¹ / ₄ "	(83mm)
	Tip width		2.1mm
	Length	8 ³ / ₄ "	(222mm)



FORCEPS DRESSING



30-1214 GERALD Dressing Forceps, serrated, straight.
 Tip width 1.1mm
 Length 7" (178mm)



30-1216 GERALD Dressing Forceps, serrated, bayonet shape.
 Working distance 3½" (89mm)
 Tip width 1.3mm
 Length 7½" (191mm)



30-1205 HARDY Dressing Forceps, bayonet.
 Working distance 4½" (114mm)
 Tip width 1mm
 Length 8¼" (210mm)



30-1165 HOEN Dressing Forceps, serrated, bayonet shape. Gutsch handle.
 Working distance 3" (76mm)
 Tip width 2mm
 Length 7¾" (197mm)



JANSEN Dressing Forceps, serrated, bayonet shape.

30-6995 Working distance 3⅛" (80mm)
 Tip width 2mm
 Length 6½" (165mm)

30-1160 Working distance 4⅜" (121mm)
 Tip width 1.8mm
 Length 8½" (216mm)

FORCEPS DRESSING

80-1732 RHOTON Dressing Forceps, TITANIUM, serrated tips.
 Tip width 1.8mm
 Length 7" (178mm)



30-1180 SEMKEN Dressing Forceps, serrated.
 Tip width 1.3mm
 Length 5" (127mm)



FORCEPS JEWELERS

	JEWELERS Forceps			
30-6712	#3	Length	4 ³ / ₄ "	(121mm)
30-6713	#3C	Length	4 ⁵ / ₁₆ "	(109mm)
30-6714	#4	Length	4 ¹ / ₄ "	(108mm)
30-6715	#5	Length	4 ⁹ / ₁₆ "	(109mm)
30-6717	#7 Curved	Length	4 ⁵ / ₈ "	(117mm)



NEUROSURGERY
MICROSURGERY

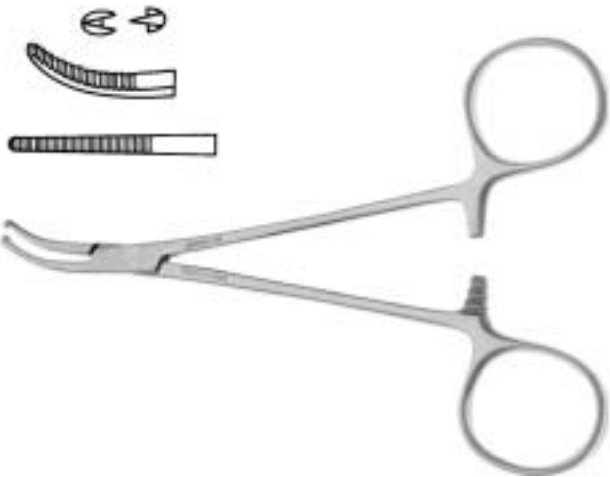
FORCEPS SCALP



DANDY™ Scalp Hemostatic Forceps, curved on side.
 Length 5½" (140mm)
 Bright Finish
 Serrated
32-4160
32-4161 1 x 2 teeth



30-1115 HOEN Scalp Hemostatic Forceps, serrated, curved on side.
 Length 5¾" (137mm)



30-1360 RAIMONDI Infant Scalp Hemostatic Forceps, 1x2 teeth, curved on side.
 Length 5" (127mm)

FORCEPS TISSUE

30-1172 BRAIN Tissue Forceps, narrow, 1x2 teeth.
Tip width 1mm
Length 7" (178mm)



CUSHING Tissue Forceps, 1x2 teeth, dissecting end.
Length 7" (178mm)
30-1140 Serrated handle Tip width 1.5mm
30-1142 Gutsch handle Tip width 1.7mm
30-1143 Gutsch handle, fine tip Tip width 1.3mm



30-1145 CUSHING Tissue Forceps, 1x2 teeth.
Tip width 1.6mm
Length 7 3/4" (197mm)



CUSHING Tissue Forceps, 1x2 teeth, bayonet shape, dissecting end.
30-1146 Working distance 3 3/8" (86mm)
Tip width 1.6mm
Length 7 1/4" (184mm)
30-1147 Working distance 3" (76mm)
Tip width 1.6mm
Length 7 3/4" (197mm)



30-1201 D'ERRICO Tissue Forceps, 1x2 teeth, bayonet shape.
Working distance 3 3/8" (86mm)
Tip width 2.4mm
Length 8 3/4" (222mm)

Tip width is measured 1mm from the instrument tip.

NEUROSURGERY
MICROSURGERY

FORCEPS TISSUE

ⓔ Ⓢ



30-1132 FERRIS SMITH Tissue Forceps, 2x3 teeth.
Tip width 3.9mm
Length 6¾" (171mm)



30-1210 GERALD Tissue Forceps, 1x2 teeth, straight.
Tip width 1.3mm
Length 7" (178mm)

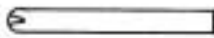


30-1213 GERALD Tissue Forceps, 1x2 teeth, bayonet shape.
Working distance 3½" (89mm)
Tip width 1.3mm
Length 7½" (191mm)



MAGNAFREE™ MRI Gerald Tissue Forceps, non-magnetic (titanium) for Interventional MRI. MRI safe up to 1.5 Tesla.
65-2411 MRI Gerald Tissue Forceps, 1x2 teeth, straight
Tip Width 1.3mm
Length 7" (178mm)

ⓔ Ⓢ



30-1166 HOEN Tissue Forceps, 1x2 teeth, bayonet shape, Gutsch handle.
Working distance 3" (76mm)
Tip width 2.1mm
Length 7¾" (197mm)

FORCEPS TISSUE

30-1170	SEMKEN Tissue Forceps, 1x2 teeth.		
	Tip width		1.3mm
	Length	5"	(127mm)

Tip width is measured 1mm from the instrument tip.



FORCEPS



30-1000	ADSON Hypophyseal Forceps, bayonet shape.		
	Cup I.D.	1/4"	(6mm)
	Working distance	4 1/2"	(114mm)
	Total length	9"	(229mm)
	Straight		

30-1117	BRIGHAM Brain Tumor Forceps		
	Diameter of ring jaw	3/8"	(10mm)
	Length	7 3/8"	(187mm)



30-2540	CARROLL Tendon Pulling Forceps		
	Shaft length	5"	(127mm)
	Total length	7 1/2"	(191mm)



FORCEPS



80-1654	WILLIAMS Dissectomy Forceps, single-toothed cup.		
	Bit size		2mm
	Length	5½"	(140mm)



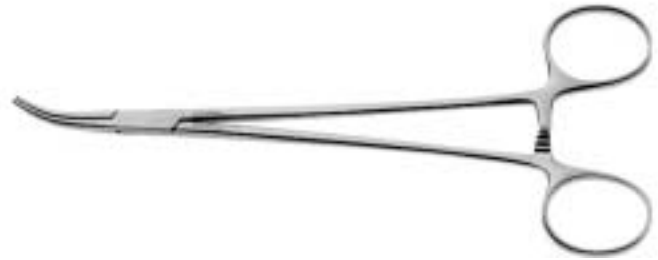
30-1204	D'ERRICO Hypophyseal Forceps, bayonet shape.		
	Cup I.D.	¼"	(6mm)
	Working distance	3½"	(89mm)
	Total length	8⅝"	(219mm)



30-1230	HOEN Angular Forceps, alligator action, 1x2 teeth.		
	Tip width		2.2mm
	Shaft length	5½"	(140mm)

FORCEPS

30-1228 LIGAMENTA FLAVA Forceps, curved on side,
1x2 teeth.
Length 7¼" (184mm)



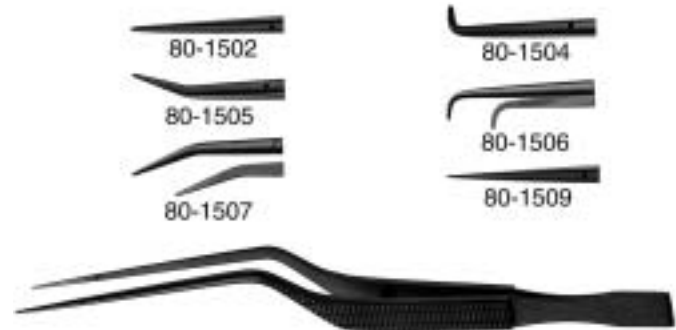
30-1194 PENFIELD Watchmaker Forceps.
Tip width .9mm
Length 7" (178mm)



FORCEPS MICRO BAYONET

MALIS Forceps, bayonet, TITANIUM.

80-1502	Working distance	3¾"	(95mm)
	Straight, blunt tip		
	Tip width	.75mm	
	Length	8¾"	(222mm)
80-1503	Straight, fine tip		
	Tip width	.5mm	
	Length	8¾"	(222mm)
80-1504	90° Curved up, blunt tip		
	Tip width	.75mm	
	Length	8½"	(216mm)
80-1505	Angled up, fine tip		
	Tip width	.5mm	
	Length	8½"	(216mm)
80-1506	90° Curved down, blunt tip		
	Tip width	.75mm	
	Length	8½"	(216mm)
80-1507	Angled down, fine tip		
	Tip width	.5mm	
	Length	8½"	(216mm)
80-1509	Straight, extra-fine tip		
	Tip width	.25mm	
	Length	8¾"	(222mm)



NEUROSURGERY
MICROSURGERY

FORCEPS MICRO BAYONET



	RHOTON Forceps, bayonet, TITANIUM.		
	Working distance	3½"	(89mm)
	Length	8½"	(216mm)
			Tip Width
80-1702	Fine tip		.5mm
80-1703	Regular tip		1mm
80-1749	RHOTON Forceps, bayonet, TITANIUM, serrated tip		
	Working distance	3¾"	(95mm)
	Length	9½"	(240mm)



80-1736	RHOTON Tumor Forceps, bayonet, TITANIUM, serrated ring.		
	Working distance	3½"	(89mm)
	Tip width		4mm
	Length	8½"	(220mm)
80-1748	RHOTON Tumor Forceps, bayonet, TITANIUM, serrated ring.		
	Working distance	3¾"	(95mm)
	Length	9½"	(240mm)

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.



	SPETZLER Neuro-Vascular Forceps		
	Titanium, bayonet		
	Length	9½"	(241mm)
	Working distance	4"	(100mm)
	Tip size		
80-1905	Platform Forceps, straight tip		.7mm
80-1906	Platform Forceps, 30° angled tip		.7mm

FORCEPS MICRO DRESSING

80-1732	RHOTON Dressing Forceps, TITANIUM, serrated tips.		
	Tip width		1.8mm
	Length	7"	(178mm)



FORCEPS MICRO DURAL

80-1731	RHOTON Dural Forceps, TITANIUM, 1x2 teeth.		
	Tip width		1mm
	Length	7"	(178mm)



FORCEPS MICRO CUP

	MALIS* Bayonet Cup Forceps		
	Length	8½"	(216mm)
80-1527	Small cup		2.75mm x 2.0mm
80-1528	Medium cup		3.5mm x 2.75mm
80-1529	Large cup		4.75mm x 3.50mm



NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

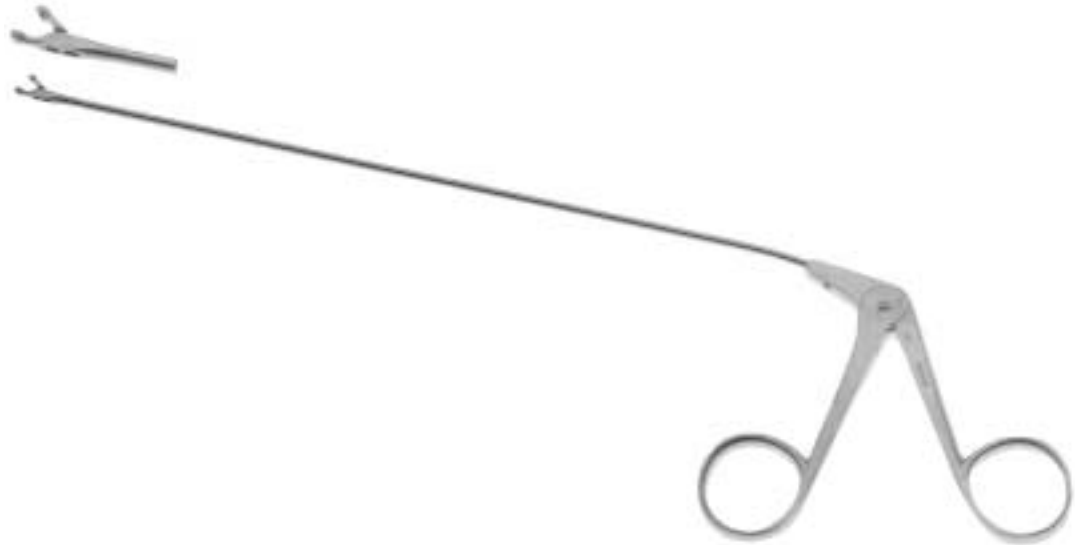
FORCEPS MICRO CUP



	RHOTON Micro Cup Forceps, alligator action.	
	Shaft length	6" (152mm)
	Type	Tip Width
53-4005	Straight	1mm
53-4006	Right	1mm
53-4007	Left	1mm
53-4008	Straight	2mm

NOTE: See back of NEUROSURGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

FORCEPS MICRO CUP



MICRO CUP Pituitary Forceps, semi-malleable shafts.

	Length	7 ⁷ / ₈ "	(200mm)
53-4009	Tip width		1mm
53-4010	Tip width		2mm

FORCEPS MICRO STRAIGHT

80-2000	MICRO Forceps, straight		
	Tip width		.3mm
	Length	5 ¹ / ₂ "	(140mm)
80-2009	MICRO Forceps, straight		
	Tip width		.3mm
	Length	7"	(178mm)
80-2010	MICRO Forceps, straight		
	Tip width		.7mm
	Length	7"	(178mm)



NEUROSURGERY
MICROSURGERY

FORCEPS MICRO STRAIGHT



	E-SERIES* Forceps, straight, TITANIUM.		
	Closing Pressure 50 gms. (approximate)		
	Tip width	1mm	
	Length	6"	(152mm)
80-6001	Ring tip		
80-6002	Ring tip, serrated		



	E-SERIES* XF Forceps, Titanium		
	Length	6"	(152mm)
80-6630	Extra Fine Tying Tip	Tip width	.7mm
	Straight		
80-6631	Extra Fine Utility	Tip width	.3mm
	Straight		



	MALIS Forceps, straight, TITANIUM.		
	Length	6"	(152mm)
80-1500	Blunt	Tip width	.75mm
80-1501	Fine	Tip width	.5mm
80-1508	Extra-fine	Tip width	.25mm



	RHOTON Forceps, straight, TITANIUM.		
	Length	7"	(178mm)
80-1700	Extra-fine	Tip width	.3mm
80-1701	Fine	Tip width	.7mm

NOTE: See back of NEUROSURGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

FORCEPS MICRO TYING

	MICRO Tying Forceps		
	Tip width		.7mm
	Length	7"	(178mm)
80-2018	Straight		
80-2019	Curved		



	MICROVASC* Tying Forceps, TITANIUM.		
	Length	7"	(178mm)
80-1806	Straight	Tip width	.6mm
80-1807	Curved	Tip width	.7mm



HOOKS DURAL

38-1038	CODMAN Dural Hook, sharp.		
	Length	6½"	(165mm)
	Tip Diameter		(2mm)



38-1045	CORKSCREW Dural Hook, with reversible handle.		
	Length	6½"	(165mm)
	Tip diameter		(4mm)



NEUROSURGERY
MICROSURGERY

HOOKS DURAL



38-1028 CUSHING Dural Hook, sharp.
 Length 5½" (140mm)
 Tip diameter (2mm)



38-1040 FRAZIER Dural Hook, sharp.
 Length 5" (127mm)
 Tip diameter (.4mm)



38-1042 LAHEY CLINIC Dural Hook, sharp.
 Length 5¼" (133mm)
 Depth (2.8mm)

HOOKS NERVE



ADSON Dissecting Hooks, roughened handles.
 Hook depth ⅜" (5mm)
 Total length 7¾" (197mm)
 Tip diameter (.9mm)
38-1060 Sharp
38-1061 Blunt



38-1030 CUSHING Gasserian Ganglion Hook, Blunt
 Hook depth ⅜" (5mm)
 Total length 9" (229mm)



38-1080 DANDY Nerve Hook, straight, blunt.
 Hook depth ⅛" (3mm)
 Total length 8⅝" (219mm)
 Tip diameter (1.5mm)

38-1065 GRAHAM Nerve Hook, blunt.
 Hook depth 1/8" (4mm)
 Total length 7" (178mm)
 Tip diameter (1mm)



38-1085 HOEN Nerve Hook, with solid triangular handle, straight, blunt.
 Hook depth 1/4" (7mm)
 Total length 8 3/4" (222mm)
 Tip diameter (1mm)



MALIS Nerve Hooks, TITANIUM handle, stainless steel shaft.

	Length	7 1/4"	(184mm)
80-1531	Ball	Tip width	3mm
80-1532	Blunt	Tip width	2mm
80-1533	Blunt	Tip width	3mm



NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

RHOTON Nerve Hooks, TITANIUM.

	length	7 1/2"	(191mm)
80-1688	No. 9, Semi-sharp, 90°	Tip width	.5mm
80-1689	No. 10, Blunt, 90°	Tip width	.8mm
80-1690	No. 11, Semi-sharp, 40°	Tip width	.7mm



38-1070 SMITHWICK Button Hook, Blunt
 Length 8" (203mm)



HOOKS NERVE



38-1088	SMITHWICK Nerve Hook and Dissector, double-ended, blunt.		
	Length	12"	(305mm)
	Hook length	7/16"	(11mm)
	Tip diameter		(.02mm)



38-1025	TRACHEA Hook, sharp.		
	Hook depth	3/16"	(5mm)
	Hook length	8"	(203mm)



38-1020	WEARY Nerve Hook, black finish, fine, blunt.		
	Hook depth	1/8"	(3mm)
	Total length	7 3/4"	(197mm)
	Tip diameter		(.9mm)

HOOKS SKIN



38-2515	CARROLL Skin Hook, sharp.		
	Length	6"	(152mm)
	Hook size	1/8"	(3mm)

INTRODUCERS, PEEL AWAY CATHETER, ENDOSCOPE

Peel-Away Catheter Introducer, sterile, 10 units/box. Used as a guide for catheter insertion. Introducer can be peeled apart permitting optimal positioning of a ventricular catheter.

Overall length 7" (18.0cm)

Peel Away Sheath length 6" (14.7cm)

83-1325 12.5 Fr

83-1326 14 Fr



KITS

The CODMAN Stainless Steel Microsurgical Instruments are available as a kit. Each kit includes a selection of stainless steel microsurgical instruments and a MICROCARE Instrument case.

80-2030 CODMAN Stainless Steel Microsurgical Kit #1.
Length 5½" (140mm)

80-2000 Micro Forceps .3mm tip, two each.

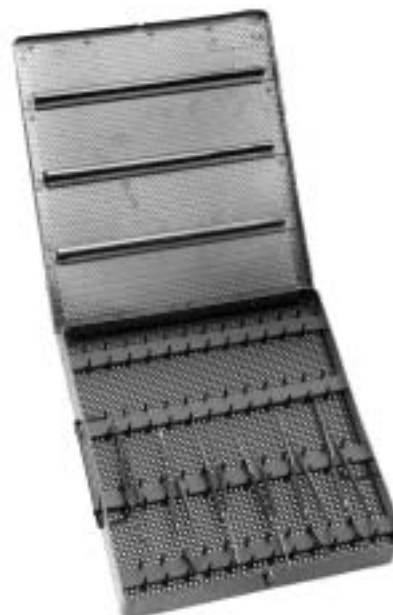
80-2002 Needle Holder, straight .5mm tip.

80-2003 Needle Holder, curved .5mm tip.

80-2005 Micro Scissors, straight.

80-2006 Micro Scissors, curved.

80-1563 MICROCARE Instrument Case, small.



NEUROSURGERY/
MICROSURGERY

KITS



- 80-2031** CODMAN Stainless Steel Microsurgical Kit #2.
Length 7" (178mm)
- 80-2009** Micro Forceps .3mm tip.
- 80-2010** Micro Forceps .7mm tip.
- 80-2012** Needle Holder, straight .5mm tip.
- 80-2013** Needle Holder, curved .5mm tip.
- 80-2015** Micro Scissors, straight.
- 80-2016** Micro Scissors, curved.
- 80-2018** Micro Tying Forceps, straight .7mm tip.
- 80-2019** Micro Tying Forceps, curved .7mm tip.
- 80-1562** MICROCARE Instrument Case, large.

For specific photographs of products represented on this page, please turn to the NEUROLOGICAL Section of the catalog and follow the alphabetical listing.



- 50-1670** CROCKARD* Transoral Instrument Set
Coordinated set of instruments used to approach a large area of pathology from the sphenoid to the C₃ vertebra via the transoral technique.
Set Includes:
Quantity
- 50-1651** 1 ea. CROCKARD Transoral Retractor Body
- 50-1652** 1 ea. CROCKARD Large Tongue Retractor Blade
- 50-1653** 1 ea. CROCKARD Small Tongue Retractor Blade
- 50-1654** 2 ea. CROCKARD 90° Retractor Blade
- 50-1655** 2 ea. CROCKARD Curved Retractor Blade
- 50-1656** 2 ea. CROCKARD Retractor Blade Connector
- 50-1657** 1 ea. CROCKARD Suction Tube Holder, Short
- 50-1658** 1 ea. CROCKARD Suction Tube Holder, Long
- 50-1659** 1 ea. CROCKARD Hard Palate Retractor
- 50-1660** 1 ea. CROCKARD Pharyngeal Retractor, Small
- 50-1661** 1 ea. CROCKARD Pharyngeal Retractor, Large
- 50-1662** 1 ea. CROCKARD Odontoid Peg Grasping Forceps
- 50-1663** 1 ea. CROCKARD Ligament Grasping Forceps
- 50-1664** CROCKARD Sterilizing/Storage Case

CODMAN E-SERIES Instruments are ergonomically engineered for maximum comfort and control. These instruments are manufactured from non-glare TITANIUM for the proper size-to-weight ratio, long life, and anti-magnetic function. The E-SERIES instruments are designed for use in microinfertility procedures (order instruments separately).

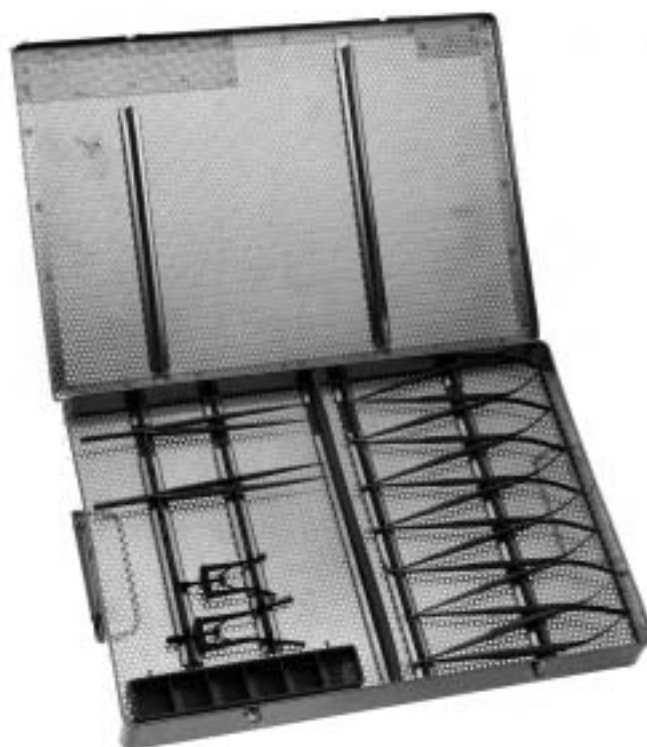
Lengths 6" (152mm)

- 80-6001** Platform Forceps, 1mm ring, two each.
- 80-6002** Tissue Platform Forceps, 1mm serrated ring.
- 80-6006** Needle Holder, curved, fine.
- 80-6007** Needle Holder, curved, standard.
- 80-6008** Scissors, straight serrated tips, fine.
- 80-6009** Scissors, straight, serrated tips, standard.
- 80-2962** Non-Stick Mirror Finish Bipolar Forceps, .3mm tip, 5 $\frac{5}{8}$ ".
- 80-2963** Non-Stick Mirror Finish Bipolar Forceps, 1mm tip, 6".
- 80-1566** MICROCARE POLYTEC Instrument Case, large.

For specific photographs of products represented on this page, please turn to the NEUROLOGICAL Section of the catalog and follow the alphabetical listing.

CODMAN's MICROVASC Kit is a coordinated instrument approach to the STA-MCA (Superficial Temporal Anastomosis to the Middle Cerebral Anastomosis). The MICROVASC set of instruments include eight TITANIUM microvascular instruments and two stainless steel specially modified alm wound retractors, all in a MICROCARE stainless steel instrument case.

- 80-1820** MICROVASC STA-MCA Kit, includes: MICROVASC Instruments, TITANIUM.
Length 7" (178mm)
- 80-1800** Needleholder, curved, two each.
- 80-1801** Scissors, straight.
- 80-1802** Scissors, curved.
- 80-1803** Scissors, 60° angled, straight tip.
- 80-1804** Scissors, 60° angled, curved tip, right.
- 80-1805** Scissors, 60° angled, curved tip, left.
- 80-1806** Tying Forceps, straight.
- 80-1807** Tying Forceps, curved.
Modified Alm Wound Retractors, stainless steel, blackened.
- 80-1812** Retractor, four by four sharp prongs.
- 80-1813** Retractor, twelve by twelve sharp prongs.
- 80-1818** MICROCARE Instrument Case.



NEUROSURGERY
MICROSURGERY

KITS



RHOTON Micro Dissection Set is designed for use during aneurysm or tumor dissections, and has particular application for acoustic neuromas. The dissectors are manufactured from lightweight TITANIUM for balance and durability.

80-1695 RHOTON Micro Dissection Set

For specific photographs of products represented on this page, please turn to the NEUROLOGICAL Section of the catalog and follow the alphabetical listing.



80-1915 SPETZLER NEURO-VASCULAR Instrument Kit Titanium. Provides coordinated approach for deep neuro-vascular surgery. Slim design, longer working distance.

Length 9½" (241mm)
Working distance 4" (100mm)

Kit includes:

- 80-1900** Small teardrop dissector, bayonet, angled up 30°
- 80-1901** Small teardrop dissector, bayonet, angled up 90°
- 80-1902** Small spatula dissector, bayonet, angled up 30°
- 80-1903** Bayonet Bipolar fcp, straight tip .7mm
- 80-1904** Bayonet Bipolar fcp, 30° angled tip .7mm
- 80-1905** Bayonet Platform fcp, straight tip .7mm
- 80-1906** Bayonet Platform fcp, 30° angled tip .7mm
- 80-1907** Bayonet Scissor, straight tip, 4mm blade length
- 80-1908** Bayonet Scissor, 30° curved tip, 4mm blade length
- 80-1909** Bayonet Needleholder, with catch, 30° curved tip, tungsten coated
- 80-1910** Micro Vari-angle temporary clip applier, 30° angled up
- 80-1914** Microcare Universal Bayonet Instrument Case

For specific photographs of products represented on this page, please turn to the NEUROLOGICAL Section of the catalog and follow the alphabetical listing.

KNIVES

40-1002 CRILE Gasserian Ganglion Knife and Dissector, double-ended.
 Length 8½" (216mm)
 Tip sizes (6mm) (16mm)



80-1860 JONES I.M.A. Diamond Knife
 Length 7½" Tip 45°



STECHER Arachnoid Knives
 Tip width 1.5mm
 Length 8" (203mm)
40-1020 Straight
40-1021 Angled left
40-1022 Angled right



MARKING PENS

43-1030 CODMAN Surgical Marker, gentian violet dye, regular tip, sterile, disposable, packaged with 6" ruler, 36 per case.



43-1032 CODMAN Surgical Marker, gentian violet dye, sterile, disposable, with 6" ruler, 36 per case. Micro tip



NEUROSURGERY
 MICROSURGERY

NEEDLE



80-1691	RHOTON #12 Straight Point Needle, semi-sharp, TITANIUM.		
	Tip width		.8mm
	Length	7½"	(191mm)

NOTE: See back of NEUROSURGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

NEEDLE HOLDERS BAYONET



	MALIS Needle Holders, bayonet, TITANIUM.		
	Working distance	2½"	(63mm)
	Length	8¾"	(222mm)
80-1512	Straight tip	Tip width	0.6mm
80-1513	Curved tip	Tip width	0.6mm
80-1515	Straight tip	Tip width	0.4mm



	RHOTON Needle Holders, bayonet, TITANIUM.		
	Working distance	3½"	(89mm)
	Tip width		.9mm
	Length	8½"	(216mm)
80-1728	Straight tip		
80-1729	Curved tip		

	RHOTON Needle Holders, bayonet, TITANIUM.		
	Working distance	3¾"	(95mm)
	Length	9½"	(240mm)
80-1746	Straight tip		
80-1747	Curved tip		

NEEDLE HOLDERS BAYONET

80-1909	SPETZLER Neuro-Vascular Needle Holder Titanium, bayonet, with catch, 75 gram soft tension. Tips coated with tungsten for secure grip.		
	Length	9½"	(241mm)
	Working distance	4"	(100mm)
	Tip	30° curved	



NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

NEEDLE HOLDERS STRAIGHT

64-1000	ADSON Dural Needle Holder, fenestrated jaws.		
	Length	7¼"	(181mm)



	E-SERIES* Needle Holders, curved, TITANIUM.		
	Length	6"	(152mm)
80-6006	Fine tip	Tip width	.7mm
80-6007	Standard tip	Tip width	1mm



	E-SERIES* XF Needle Holders, Titanium		
	Length	6"	(152mm)
80-6620	Extra Fine Tip Straight	Tip width	.5mm
80-6621	Extra Fine Tip Curved	Tip width	.5mm



NEUROSURGERY
MICROSURGERY

NEEDLE HOLDERS STRAIGHT



MALIS Needle Holders, TITANIUM.			
	Length	6 ³ / ₄ "	(171mm)
80-1510	Straight tip	Tip width	.5mm
80-1511	Curved tip	Tip width	.5mm
80-1514	Fine, straight tip	Tip width	.5mm



MICROVASC* Needle Holders, TITANIUM, curved tip.			
	Tip width		.7mm
80-1800	Length	7"	(178mm)



RHOTON Needle Holders, TITANIUM.			
	Length	7"	(178mm)
80-1725	Curved fine	Tip width	.5mm
80-1726	Straight	Tip width	.9mm
80-1727	Curved	Tip width	.9mm



MICRO Needle Holders			
	Tip width		.5mm
	Length	7"	(178mm)
80-2012	Straight tip		
80-2013	Curved tip		

NEEDLE HOLDERS STRAIGHT

	MICRO Needle Holders		
	Tip width		.5mm
	Length	5½"	(140mm)
80-2002	Straight tip		
80-2003	Curved tip		

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.



MESH

43-1022	TITANIUM Mesh		
	Sterile		
	Titanium Mesh is indicated for use with methyl methacrylate formulated for cranioplasty.		
	Size	6"x 6"	(15cm x 15cm)
	Wire diameter	.010"	(31g)
	Mesh per inch	24 x 24	



NEUROSURGERY
MICROSURGERY

PASSER



80-1530	MALIS Ligature Passer, TITANIUM handles, stainless steel shaft.		
	Hook size		3mm
	Length	7 $\frac{3}{8}$ "	(184mm)

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

PATTIES



CODMAN Surgical Patties, sterile, X-ray detectable, 10 patties per package, 20 packages per dispenser box.

80-1396	$\frac{5}{16}$ " Round	.79cm
80-1397	$\frac{1}{4}$ " x $1\frac{1}{2}$ "	.64cm x 3.81cm
80-1398	$\frac{1}{4}$ " x 3"	.64cm x 3.81cm
80-1399	$\frac{1}{4}$ " x $\frac{1}{4}$ "	.64cm x .64cm
80-1400	$\frac{1}{2}$ " x $\frac{1}{2}$ "	1.27cm x 1.27cm
80-1401	$\frac{3}{4}$ " x $\frac{3}{4}$ "	1.91cm x 1.91cm
80-1402	$\frac{1}{2}$ " x 1"	1.27cm x 2.54cm
80-1403	1" x 1"	2.54cm x 2.54cm
80-1404	$\frac{1}{2}$ " x $1\frac{1}{2}$ "	1.27cm x 3.81cm
80-1405	$1\frac{1}{2}$ " x $1\frac{1}{2}$ "	3.81cm x 3.81cm
80-1406	$\frac{1}{2}$ " x 2"	1.27cm x 5.08cm
80-1407	$\frac{1}{2}$ " x 3"	1.27cm x 7.62cm
80-1408	1" x 3"	2.54cm x 7.62cm
80-1409	3" x 3"	7.62cm x 7.62cm

PERCUSSORS/HAMMERS

24-1010 MILLET Neurological Test Instrument, incorporating a C-128 tuning fork.
Length 8 1/8" (206mm)
Includes one each of the following:
MILLET Pinwheel
MILLET Rubber Percussor, large
MILLET Rubber Percussor, small
MILLET Cap for large percussor
MILLET Brush Assembly
MILLET Needle



88-4000 TAYLOR Percussion Hammer
Length 8" (203mm)



PUNCHES



	HARDY Sella Punch		
	Length	7"	(178mm)
80-1344	40° Up	Bite	1mm
80-1340	40° Up	Bite	2mm
80-1341	90° Up	Bite	2mm
80-1342	90° Down	Bite	2mm
80-1343	40° Down	Bite	2mm

RETRACTORS HAND-HELD



50-1020	CUSHING Vein Retractor		
	Blade width	1/2"	(13mm)
	Blade depth	3/8"	(10mm)
	Length	9"	(229mm)

50-1060	CUSHING Decompression Retractor, fenestrated blade.		
	Width	1/2"	(13mm)
	Depth	7/8"	(22mm)
	Length	8 3/8"	(213mm)



50-2608	RAGNELL Retractor, double-ended.		
	Blade width	1/8"	(3mm)
	Blade depth	1/4"	(6mm)
	Blade width	1/4"	(6mm)
	Blade depth	5/8"	(16mm)
	Length	6"	(152mm)



GREENBERG RETRACTOR

AN OVERVIEW OF THE STAIRCASE CONCEPT

The goal of the operating surgeon should be to compartmentalize work performance into three levels.

LEVEL I includes retraction and dissection and has a low profile directly next to the operative field.

LEVEL II is above LEVEL I, separate and distinct from LEVEL I and consists of handresting, with one handrest for each hand.

LEVEL III is above LEVEL II and consists of instruments mounted above the handrests. These instruments are within easy reach so the surgeon can move from LEVEL II to LEVEL III with minimal hand travel distance.

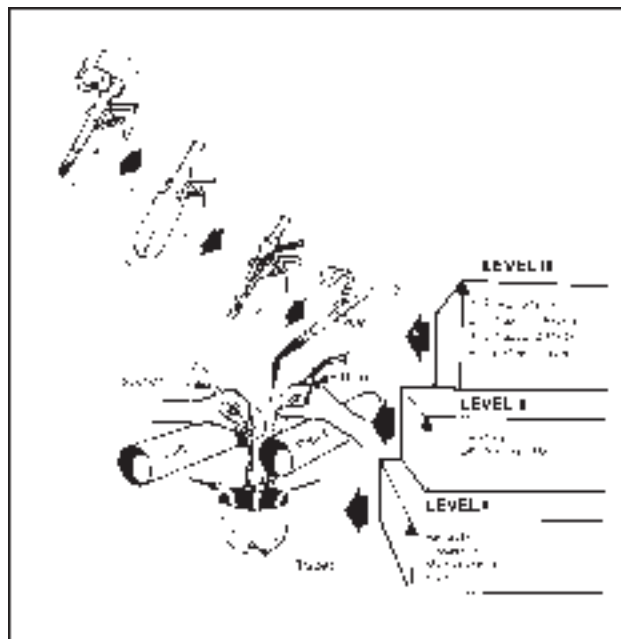
By the same token, the surgeon, while resting the hand at LEVEL II, will be able to move down and make subtle adjustments during the retraction/dissection process at LEVEL I.

The key is the concept of the surgeon's hands supported at LEVEL II with movements from the handrest down to LEVEL I, up to LEVEL III.

The stability for most of the surgeon's activities will come from the handheld instruments at LEVEL II resting on the handrest during surgery. This platform is the hub, or focal point, of all the surgeon's work.

With the increased use of microsurgical and advanced surgical technique, there has developed the necessity of conceptual models of surgery. The idea of separate levels of instrument structure and surgical performance is more than a way to describe the assembly of instruments. (1,2,3,6) It compartmentalizes the operating surgeon's performance and brings order and neatness into the surgical process. By adhering to the Staircase Concept, (3) tools seem to fit more easily where they are being used, performance becomes more systematic and there is minimal interference from "things getting in the way." (6,8,9)

The increasing use of LEVEL III for the mechanical support of instruments of action greatly increases the surgeon's efficiency. The key to LEVEL III, with its many options, is to use only the part or parts of the system which are helpful for a given procedure. (6,8,9) Instrument positions should be planned in advance so as to maximize efficiency in the use of space. (5,7)



Surgical Instrument Levels, Staircase Concept
LEVELS I, II, III

These instruments, their suggested uses, and the Staircase Concept of structure and function have developed to concepts of surgery, here condensed into seven ideas:

1. Work analysis of each step of a given procedure.
2. Decreasing repetitive movements (particularly instrument exchanges) during surgery. (8,9)
3. Use of mechanical support for each hand to reduce tremor and fatigue while increasing precision. (1,2,3)
4. Reliance upon mechanical support for instruments in the field. (4,5,6)
5. Decreasing reliance upon other operating room personnel so as to reduce miscommunication and enable the surgeon to work at his own tempo. (4,5,6,7,8,9)
6. Maintain versatility of the instruments so that new instruments can be added easily.
7. Reduce the number and required training of assisting personnel and thus reduce costs. (7,8,9)

These goals are attainable. Surgeons can be more ergonomically efficient, and the instruments described are versatile, simple, and reliable. The techniques of course, take time to learn, but as experience is gained, the surgeon will find that the time required to set up the system will diminish and the use of mechanically supported instruments will increase.

GREENBERG RETRACTOR

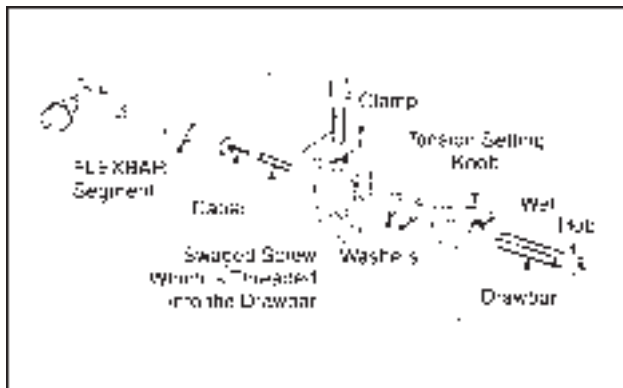
CARE AND MAINTENANCE

For purposes of care and maintenance, it may be helpful to separate the instruments into Bars (Primary, Secondary, and Floating Secondary Bars), and FLEXBAR Arms (Long and Short Retractor Arms, Handrests, Microinstrument Holders, Large and Small Instrument Holders.)

BARS

Cleaning

After each surgery, use a soft brush and mild detergent to remove all residual debris from each instrument. It is recommended that the instruments and parts be ultrasonically cleaned.



Retractor Arm

Lubrication

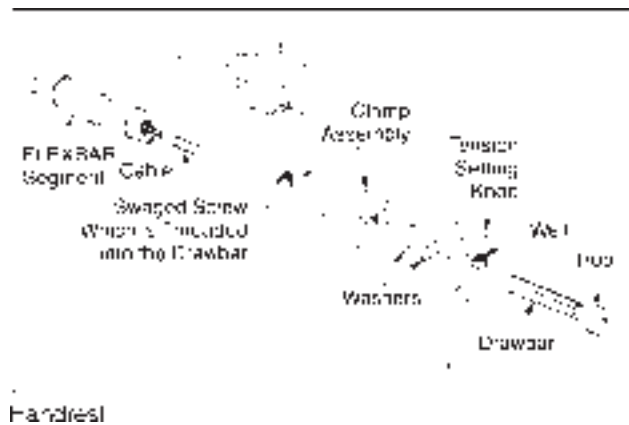
It is extremely important that moveable parts be properly lubricated to keep them functional. It is recommended that all components be immersed in a water-soluble lubricant. PRESERVE* Concentrate (catalog no. 43-1033) is recommended for instruments to be steam sterilized.

FLEXBAR ARMS

Cleaning

After surgery, use a soft brush and mild detergent to remove all residual debris from each instrument. It is recommended that the instruments and parts be ultrasonically cleaned.

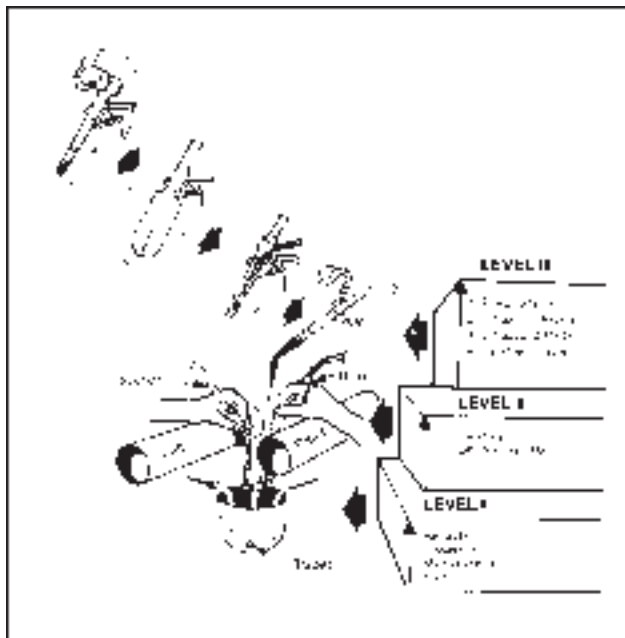
FLEXBAR Arms consist of a series of hollow cylinders through which a multi-strand steel cable runs. Attached to the cable is a swaged screw which is threaded into a drawbar. See below.



Handrest

RETRACTORS

SELF-RETAINING, GREENBERG



CODMAN'S GREENBERG Retractor is a modular, self-retaining neurosurgical/microsurgical retractor system. The GREENBERG system provides the surgeon increased control and support in dissection as well as reliable exposure in multiple planes of retraction. A variety of configurations are possible with a combination of component parts. See your GREENBERG owners manual for a more complete description of the possible retraction levels.

50-1500 GREENBERG Universal Retractor and Handrest Kit, includes the following:

GREENBERG Tapered Retractor Blades

	Length	Blade widths
50-1530	9" (229mm)	1/4" x 3/4" (6mm x 19mm)
50-1531	9" (229mm)	5/32" x 9/8" (4mm x 16mm)
50-1532	9" (229mm)	1/8" x 1/2" (3mm x 13mm)
50-1533	9" (229mm)	3/32" x 3/8" (2mm x 10mm)
50-1534	9" (229mm)	1/16" x 1/4" (1.6mm x 19mm)

Blades mount onto Long Arm (50-1509) or Short Arm (50-1511)

50-1507 GREENBERG Primary Bar, attaches to skull clamp.

Length 6" (152mm)

GREENBERG Retractor Kit (50-1500) is supplied with two primary bars.

50-1508 GREENBERG Secondary Bar, attaches to primary bar.

Length 12" (305mm)

GREENBERG Retractor Kit (50-1500) is supplied with four secondary bars.

50-1509 GREENBERG Long Retractor Arm, attaches to primary or secondary bar.

Length 9 1/2" (241mm)

GREENBERG Retractor Kit (50-1500) is supplied with four long retractor arms.

50-1512 GREENBERG Handrest, attaches to short coupler (50-1522) or a secondary bar (50-1508 or 50-1516)

Length 10" (254mm)

50-1513 GREENBERG Pattie Tray, attaches to long or short arm (50-1509 or 50-1511)

Width 3" (76mm)

Length 6 3/4" (171mm)

50-1514 GREENBERG Universal Retractor Case, with four compartments for various components.

Compartment Dimensions

	Compartment #1	Compartment #2
Length	10 3/8" (264mm)	17" (432 mm)
Width	7 3/4" (197mm)	2 1/8" (54mm)
	Compartment #3	Compartment #4
Length	6 3/4" (171mm)	6 3/4" (171mm)
Width	4 5/8" (117mm)	3 1/8" (79mm)

Case Dimensions

Length 17" (432mm)

Width 10" (254mm)

Depth 2 3/8" (60mm)

RETRACTORS SELF-RETAINING, GREENBERG

- 50-1507** GREENBERG Primary Bar, attaches to skull clamp.
Length 6" (152mm)
GREENBERG Retractor Kit (50-1500) is supplied with two primary bars.
- 50-1508** GREENBERG Secondary Bar, attaches to primary bar.
Length 12" (305mm)
GREENBERG Retractor Kit (50-1500) is supplied with four secondary bars.
- 50-1509** GREENBERG Long Retractor Arm, attaches to primary or secondary bar.
Length 9½" (241mm)
GREENBERG Retractor Kit (50-1500) is supplied with four long retractor arms.
-



50-1507



50-1508



50-1509

RETRACTORS SELF-RETAINING, GREENBERG



50-1512	GREENBERG Handrest, attaches to short coupler (50-1522) or a secondary bar (50-1508 or 50-1516)
Length	10" (254mm)
50-1513	GREENBERG Pattie Tray, attaches to long or short arm (50-1509 or 50-1511)
Width	3" (76mm)
Length	6 ³ / ₄ " (171mm)

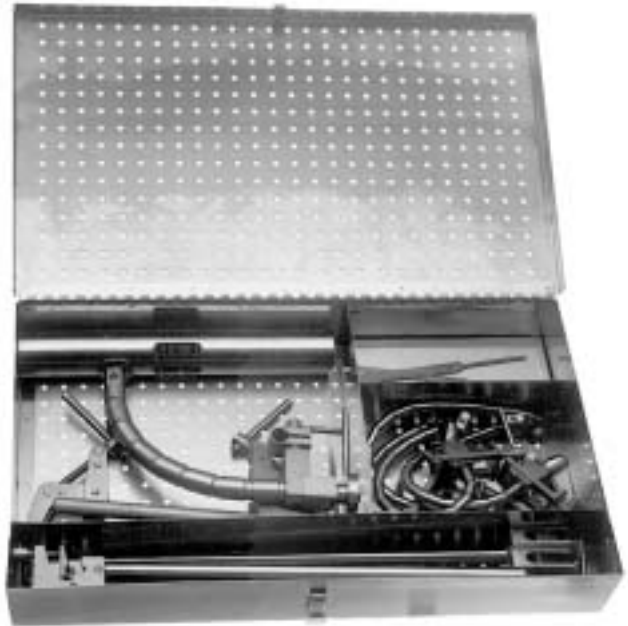
RETRACTORS SELF-RETAINING, GREENBERG

50-1514 GREENBERG Universal Retractor Case, with four compartments for various components.
Compartment Dimensions

	Compartment # 1	Compartment # 2
Length	10 ³ / ₈ " (264mm)	17" (432mm)
Width	7 ³ / ₄ " (197mm)	2 ¹ / ₈ " (54mm)
	Compartment # 3	Compartment # 4
Length	6 ³ / ₄ " (171mm)	6 ³ / ₄ " (171mm)
Width	4 ⁵ / ₈ " (117mm)	3 ¹ / ₈ " (79mm)

Case Dimensions

Length	17"	(432mm)
Width	10"	(254mm)
Depth	2 ³ / ₈ "	(60mm)



GREENBERG Tapered Retractor Blades
Both ends can be used for retraction. Attaches to Greenberg Long Arm (50-1509) or Greenberg Short Arm (50-1511)
Blade Length-9" (229mm)

50-1530	1/4" x 3/4"	(6mm x 19mm)
50-1531	5/32" x 5/8"	(4mm x 16mm)
50-1532	1/8" x 1/2"	(3.2mm x 12.7mm)
50-1533	3/32" x 3/8"	(2.4mm x 9.5mm)
50-1534	1/16" x 1/4"	(1.6mm x 6mm)



50-1522 GREENBERG Short Coupler
Can be used as mount for the GREENBERG Handrest (50-1512), or Large or Small Instrument Holders (50-1524 or 50-1523).



RETRACTORS SELF-RETAINING, GREENBERG



50-1511 GREENBERG Short Retractor Arm
Length 6½" (165mm)

Attaches to Primary Bar (50-1507) or Secondary Bar (50-1516).
Mini vise holds all sizes of Greenberg Retractor blades.



50-1515 GREENBERG Maxi-Vise Adapter, attaches to the GREENBERG Flexible Arms (50-1509 and 50-1511). Doubles the holding diameter of the arms (4mm to 8mm). Useful for holding suction devices and other various microsurgical instruments.

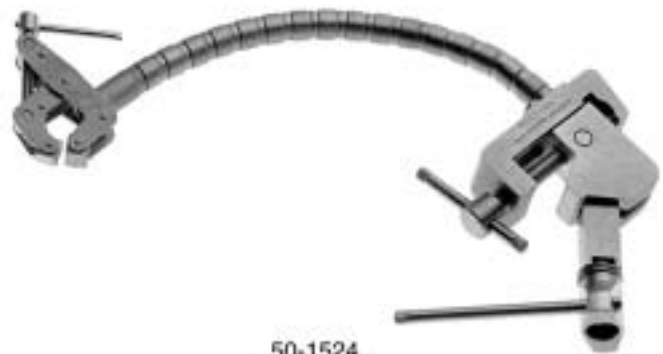


50-1516 GREENBERG Floating Secondary Bar
Length 12" (305mm)

See GREENBERG Instruction Manual for complete assembly instructions. Attaches to Primary Bar (50-1507) or Secondary Bar (50-1508) or Short Coupler (50-1522). Can also be mounted onto a flat metal edge of up to 1/2" thickness. Incorporates a universal joint enabling conical adjustment of angle

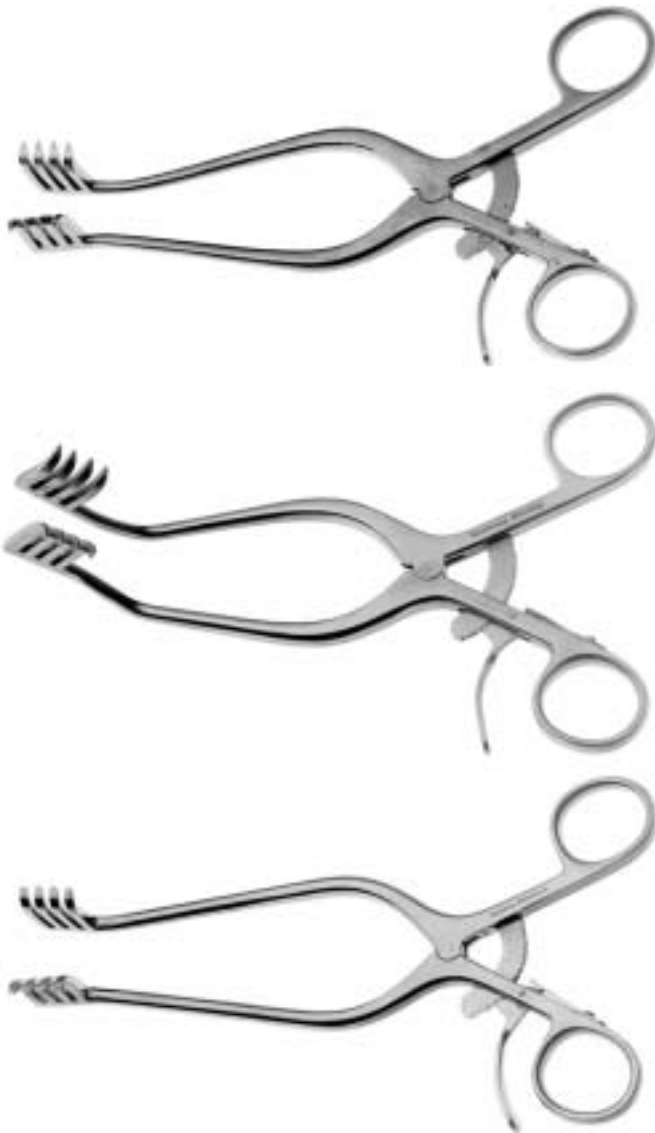
RETRACTORS SELF-RETAINING, GREENBERG

-
- 50-1523** GREENBERG Small Instrument Holder is a Flexbar Arm used when greater holding force than that offered by the Microinstrument holder (50-1529) is needed. Holds instruments with shafts up to $\frac{5}{16}$ " in diameter and flat instruments.
 - 50-1524** GREENBERG Large Instrument Holder is a Flexbar Arm used to support heavy instruments. The cantilever clamp holds instruments with shafts up to 1" in diameter.
 - 50-1525** GREENBERG Universal Retraction System X-LARGE Instrument Holder. Holds instruments up to 2" diameter.
 - 50-1529** GREENBERG Microinstrument Holder is a Flexbar Arm used to hold microinstruments used repeatedly within the retracted field. holds instruments with shafts up to $\frac{1}{8}$ " in diameter.
-



NEUROSURGERY
MICROSURGERY

RETRACTORS SELF-RETAINING



	ADSON Cerebellar Retractors, self-retaining.	
	Total opening	4½" (114mm)
50-1180	4x4 sharp prongs, straight shaft	
	Blade width	⅝" (16mm)
	Blade depth	⅞" (22mm)
	Length	7½" (191mm)
50-1181	4x4 sharp prongs, angular shaft	
	Blade width	⅝" (16mm)
	Blade depth	⅞" (22mm)
	Length	7" (178mm)
50-1182	4x4 blunt prongs, straight shaft	
	Blade width	⅝" (16mm)
	Blade depth	⅞" (22mm)
	Length	7½" (191mm)



50-1186	ANDERSON-ADSON Scalp Retractor, self-retaining with angular arms, 4x4 sharp prongs.	
	Blade width	¾" (19mm)
	Blade depth	⅝" (16mm)
	Total opening	4½" (114mm)
	Length	7½" (191mm)

RETRACTORS SELF-RETAINING



50-1520	CODMAN Flexible Arm Cerebellar Retractor, self-retaining 4x4 sharp prongs, includes retractor body, flexible arm, two hex posts, and three retractor blades.
Total opening	4½" (114mm)
Length	7" (178mm)
Flexible Arm Length	9½" (241mm)
Retractor Blades, three.	
One Notched Right Retractor Blade	
One Notched Left Retractor Blade	
One Double Notched Retractor Blade	
Blade width	⅜" (10mm)
Blade length	4" (102mm)

RETRACTORS SELF-RETAINING



50-1223



50-1224

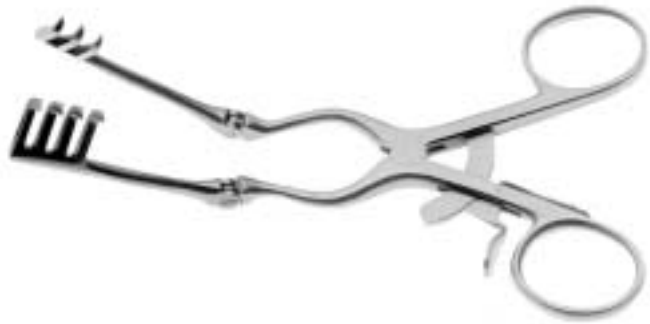
CODMAN Tissue Retractors		
	Length	5¼" (133mm)
	Total opening	2½" (64mm)
50-1223	3x3 blunt prongs	
	Prong width	½" (13mm)
	Prong depth	⅝" (16mm)
50-1224	1x1 blunt prongs	
	Prong depth	½" (13mm)



50-1362	CODMAN ADSON Retractor	
	Length	9½" (240mm)
	Total opening	5" (120mm)
	Shank angle	65°
	3 x 3 sharp prongs	

RETRACTORS SELF-RETAINING

50-1168 CONE Laminectomy Retractors, self-retaining with hinged arms, 3x4 sharp prongs.
Length 8" (203mm)



50-1166 CONE Scalp Retractors, self-retaining, with hinged arms.
3x4 blunt prongs
Length 5¾" (146mm)

50-1167 3x4 sharp prongs
Length 6⅞" (162mm)



50-1220 CONTOUR Scalp Retractor, self-retaining, with blades curved to fit contour of skull, 3x4 blunt prongs.
Blade width ⅝" (16mm)
Blade depth ⅝" (16mm)
Total opening 2½" (64mm)
Length 5½" (140mm)



50-1226 JANSEN Scalp Retractor, self-retaining, 4x4 blunt prongs.
Blade width ¾" (19mm)
Blade depth ¾" (19mm)
Total opening 3" (76mm)
Length 4⅝" (117mm)



RETRACTORS SELF-RETAINING



50-1227	JANSEN Mastoid Retractor, self-retaining, 3x3 blunt prongs.
Prong width	1 ¹ / ₁₆ " (17mm)
Prong depth	3 ³ / ₈ " (10mm)
Total opening	1 ³ / ₄ " (44mm)
Length	4" (102mm)



50-1460	MALIS Brain Retractor Kit, black anodized, attaches to the MALIS Cerebellar Retractor (50-1465), and includes the following: Five Retractor Blades
Blade length	4" (102mm)
Blade width	3 ³ / ₈ " (10mm)
Blade width	9 ¹ / ₁₆ " (14mm)
Blade width	5 ⁵ / ₈ " (16mm)
Blade width	3 ³ / ₄ " (19mm)
Blade width	1" (25mm)
	Three Retractor Extensions
Length	2" (51mm)
Length	3" (76mm)
Length	4" (102mm)

50-1453 MALIS Hinge Clamp
50-1454 MALIS Double Connectors
 MALIS Brain Retractor Kit (50-1460) is supplied
 with two double connectors.



50-1453



50-1454

RETRACTORS SELF-RETAINING

50-1465 MALIS Cerebellar Retractor, self-retaining, 4x4 sharp prongs, angular arms with post for attaching the MALIS Brain Retractor (50-1460), black anodized.

Total opening	5½"	(140mm)
Length	7"	(178mm)
Post height	1½"	(38mm)
Prong width	5⁄8"	(16mm)
Prong depth	7⁄8"	(22mm)



80-1812 MICROVASC™ Modified Alm Retractors, black anodized.

80-1812	4x4 prongs	Length	3"	(76mm)
80-1813	12x12 prongs	Length	3¾"	(95mm)



50-1363 MISKIMON Cerebellar Retractor, 7x7 sharp prongs.

Total length	7½"	(191mm)
Blade width	1¼"	(32mm)
Blade depth	1⅜"	(35mm)

RETRACTORS SELF-RETAINING



50-1236	SNITMAN Endaural Retractor, self-retaining, 3x3 sharp prongs on solid blade.
Prong width	$\frac{9}{16}$ " (14mm)
Prong depth	$\frac{3}{8}$ " (10mm)
Total opening	2" (51mm)
Length	$4\frac{3}{16}$ " (106mm)

RONGEURS BONE, SINGLE ACTION



53-1040	ADSON Cranial Rongeur, straight.
Bite	(8mm)
Length	8" (203mm)



53-1035	BACON Cranial Rongeur, angular.
Bite	$\frac{3}{16}$ " (5mm)
Length	$7\frac{3}{4}$ " (197mm)



53-1102	BEYER (LEMPERT) Rongeur, curved.
Bite	$\frac{1}{16}$ " (2mm)
Length	$6\frac{1}{8}$ " (156mm)

RONGEURS BONE, SINGLE ACTION



53-1030 DE VILBISS Cranial Rongeur, with one extra blade.
Length 8 $\frac{1}{16}$ " (205mm)

53-1108 LEMPERS Rongeur, straight.
Bite $\frac{1}{16}$ " (2mm)
Length 6 $\frac{1}{8}$ " (156mm)



30-1310 LISTON Bone Cutting Forceps
Length 5 $\frac{1}{2}$ " (140mm)



RONGEURS BONE, SINGLE ACTION



	LUER Bone Rongeurs	
53-1010	Bite	1/4" (6mm)
53-1011	Length	7" (178mm)
	53-1010	Straight
	53-1011	Curved



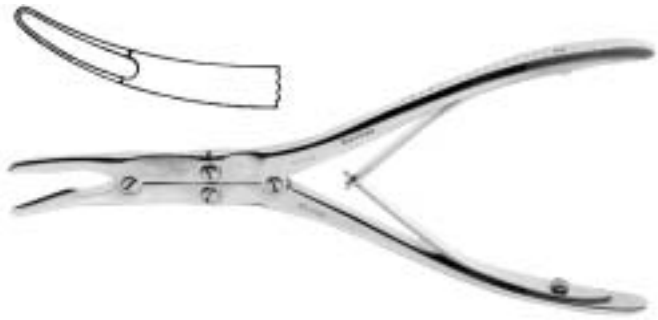
	REINER Bone Rongeurs, curved.	
53-1015	Length	7" (178mm)
53-1016	Bite	(3mm x 13mm)
	53-1016	Bite
		(4mm x 14mm)



53-1055	STOOKEY Cranial Rongeur, angular.	
	Bite	(3mm)
	Length	7 3/8" (187mm)

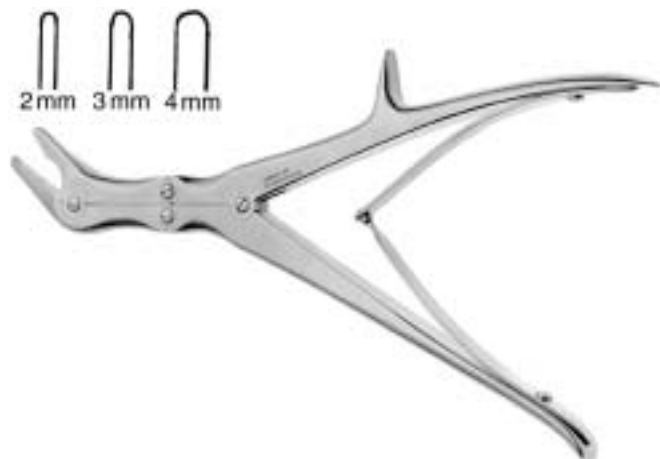
RONGEURS BONE, DOUBLE ACTION

53-1100 BEYER Rongeur, curved, double-action.
 Bite $\frac{1}{16}$ " (2.5mm)
 Length 7" (178mm)



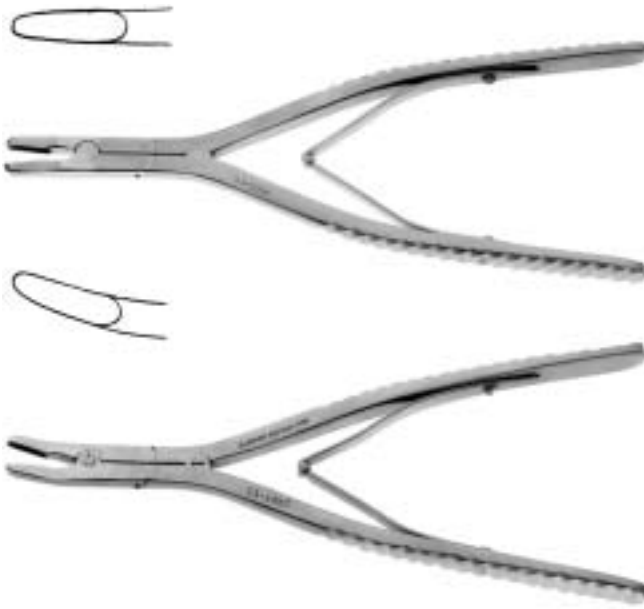
56-8040 DALE First Rib Rongeur, double-action.
 Bite $\frac{1}{8}$ " 3mm
 Length $14\frac{1}{2}$ " (368mm)

ECHLIN Laminectomy Rongeurs,
 double-action, angular
 Length $8\frac{3}{4}$ " (222mm)
53-1045 Bite 2mm
53-1046 Bite 3mm
53-1047 Bite 4mm



NEUROSURGERY
MICROSURGERY

RONGEURS BONE, DOUBLE ACTION



	FULTON Laminectomy Rongeurs, cup size 15mm x 16mm narrow blade, double-action.	
53-1060	Straight	Length 7½" (191mm)
53-1061	Slight curved	Length 9½" (241mm)
53-1066	Straight	
53-1067	Slightly curved	



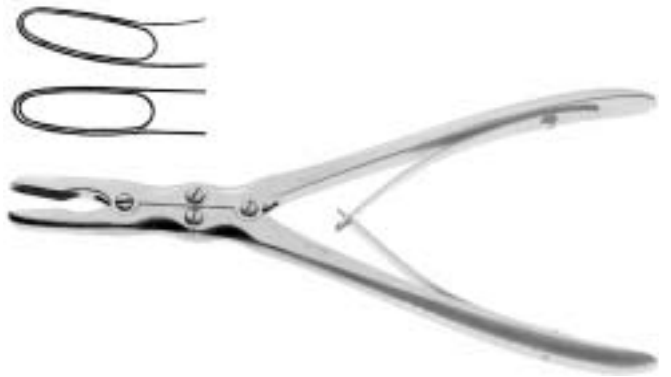
	CODMAN LEKSELL Laminectomy Rongeurs, double-action.	
53-1125	Regular curve, wide jaw	Bite 8mm (229mm)
53-1126	Full curve, wide jaw	Bite 8mm (229mm)
53-1127	Regular curve, narrow jaw	Bite 5mm (229mm)
53-1128	Full curve, narrow jaw	Bite 5mm (229mm)

RONGEURS BONE, DOUBLE ACTION

30-1290 RUSKIN Bone Cutting Forceps, double-action.
Length 7¼" (184mm)



RUSKIN Bone Rongeurs, double-action.
Length 7¼" (184mm)
Bite (4mm x 33mm)
53-1310 Straight
53-1311 Curved
Bite (5mm x 33mm)
53-1312 Straight
53-1313 Curved



SMITH-PETERSEN Laminectomy Rongeurs, double-action.
Bite (4mm x 15mm)
Length 7½" (191mm)
53-1080 Straight
53-1081 Slightly curved
Length 9½" (241mm)
53-1083 Straight
53-1084 Slightly curved
53-1085 Full curved



NEUROSURGERY
MICROSURGERY

RONGEURS BONE, DOUBLE ACTION



STILLE-LUER Rongeurs			
	Bite		10mm (216mm)
53-1130	Length	8½"	
53-1131	Straight		
	Curved		
	Bite		5mm (229mm)
53-1133	Length	9½"	
53-1118	Angular		
	Angular, flat lower jaw		



STILLE-LISTON Bone Cutting Forceps, double-action.			
	Length	10½"	(267mm)
30-1295	Straight		
30-1296	Curved		

RONGEURS BONE, DOUBLE ACTION

30-1298 STILLE-HORSLEY Bone Cutting Forceps, double-action, curved shaft, angular jaw.
Length 10½" (267mm)



53-1095 ZAUFAL-JANSEN Rongeur, double-action, curved.
Bite (4mm x 30mm)
Length 6¾" (171mm)



RONGEURS CRANIAL

53-1040 ADSON Cranial Rongeur, straight.
Bite (8mm)
Length 8" (203mm)



53-1035 BACON Cranial Rongeur, angular.
Bite ⅜" (5mm)
Length 7¾" (197mm)



NEUROSURGERY
MICROSURGERY

RONGEURS CRANIAL



53-1030 DE VILBISS Cranial Rongeur, with one extra blade.
Length 8 $\frac{1}{16}$ " (205mm)

RONGEURS MICRO



DECKER Rongeurs, alligator action.
Bite 2mm x 6mm
Length 6" (152mm)
53-4000 Straight
53-4002 Curved left

NOTE: See additional Rongeurs in NEUROLOGICAL Section under Punches and SPINE section under Rongeurs.

SAWS/HANDLES/GUIDES

GIGLI Saw handles, one pair.

11-1015	Loop	Length	1¾"	(44mm)
11-1016	Solid	Length	2"	(51mm)



STRULLY Gigli Saw Handles, one pair.

11-1020	Loop	Length	¾"	(95mm)
11-1021	Solid	Length	½"	(89mm)



11-1021



BAILEY Gigli Saw Guides

	Length	12"	(305mm)
14-1020	Straight		
14-1021	Curved		

NEUROSURGERY
MICROSURGERY

SAWS/HANDLES/GUIDES



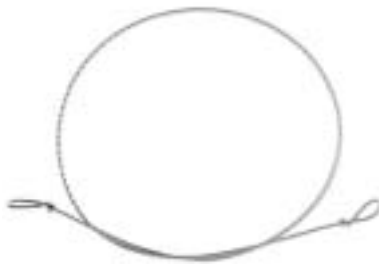
14-1025	POPPEN Gigli Saw Guide		
	Length	11"	(279mm)



	GIGLI Twisted Wire Saws, package of ten.		
75-1003	Length	12"	(305mm)
75-1004	Length	20"	(508mm)



	TYLER-GIGLI Wire Saws, large cut, package of ten.		
75-1012	Length	20"	(508mm)
75-1013	Length	12"	(305mm)



	OLIVECRONA-GIGLI Wire Saws, STILLE type, package of ten.		
75-1018	Length	12"	(305mm)
75-1019	Length	16"	(406mm)
75-1020	Length	20"	(508mm)

SCALP CLIPS

- 20-1025** RANEY Scalp Clips
Stainless steel.
12 clips/package
- 20-1037** RANEY Scalp Clips
Sterile, disposable, plastic.
10 clips/package
20 packages/case



Use with 20-5115 RANEY Clip Applying Forcep.

- 20-1032** LEROY Scalp Clips, sterile, disposable, plastic.
Adult
10 clips/package
20 packages/case
Use with 20-5117 LEROY Clip Applying Forcep.
- 20-1035** Infant size
10 clips/package
20 packages/case
Use with 20-5120 LEROY Clip Applying Forcep.



- 20-1034** LEROY-RANEY Scalp Clips, sterile,
disposable, plastic.
10 clips/package
20 packages/case
Use with 20-5117 LEROY Clip Applying Forcep.



SCALP CLIP APPLYING FORCEPS

- 20-5117** LeROY Scalp Clip Applying Forceps
Adult size for use with 20-1032 or 20-1034
LeROY clips.
Length 7¼" (184mm)
- 20-5120** Infant size for use with 20-1035
Infant LeROY clips.
Length 7¼" (184mm)



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SCALP CLIP APPLYING FORCEPS



20-5115 RANEY Scalp Clip Applying Forceps, use with 20-1037 or 20-1025 RANEY clips.
Length 6¼" (159mm)

SCALP CLIP APPLIERS, DISPOSABLE



CODMAN DISPOSABLE SCALP CLIP APPLIER, sterile, single use system designed to permit rapid application of scalp clips to the scalp flap for hemostasis during a craniotomy procedure. The applier is designed for one hand use with 12 pre-loaded Leroy-Raney design clips which are easily removed with specially designed CODMAN Disposable Scalp Clip Removal Forceps.

20-1038 CODMAN Disposable Scalp Clip Applier (10 per box)

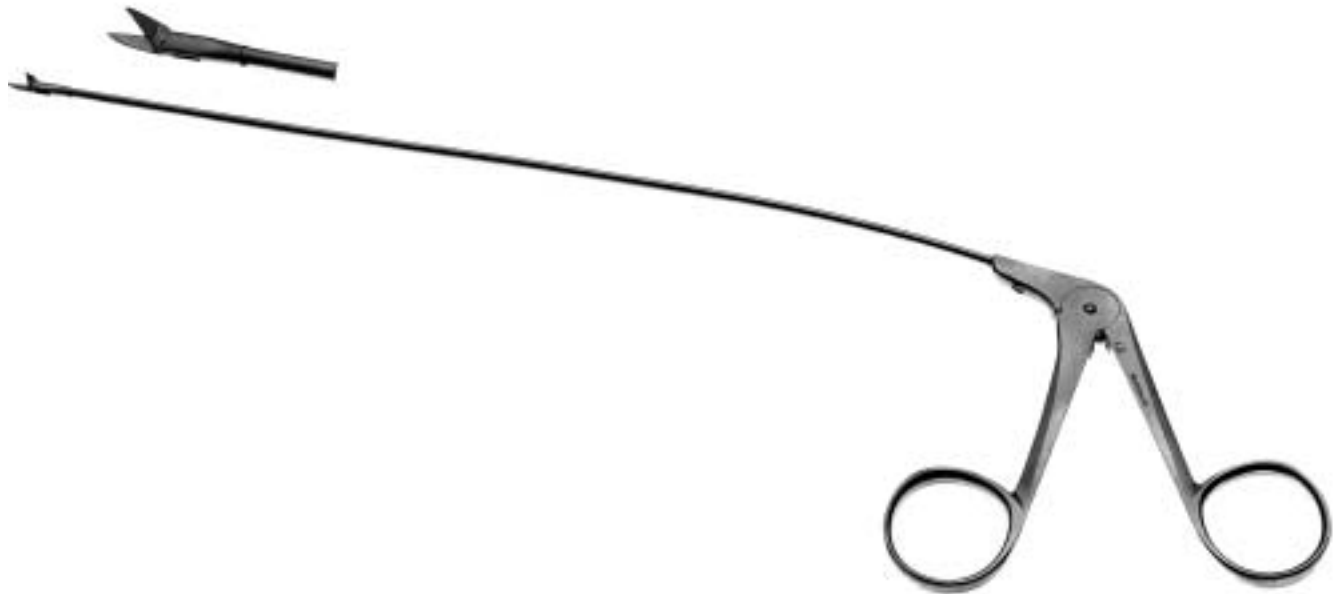
20-1039 CODMAN Disposable Scalp Clip Removal Forceps

SCISSORS ALLIGATOR

DECKER Microsurgical Scissors, alligator
action.

Blade length 5mm
Length 5½" (140mm)

54-5604 Straight
54-5605 Curved left
54-5606 Curved right



MICRO Pituitary Style Scissors, alligator action,
semi-malleable shaft.

Blade Length 2mm
Length 7½" (200mm)

54-5607 Straight
54-5608 Curved left
54-5609 Curved right

NOTE: See additional Scissors in GENERAL Section under
Scissors.

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SCISSORS ALLIGATOR



54-1091 SWEET Scissors, straight, alligator blades.
Blade length $\frac{3}{8}$ " (10mm)
Shaft length $5\frac{1}{2}$ " (140mm)

SCISSORS DURAL



54-1055 FRAZIER Dural Scissors
Length $6\frac{3}{4}$ " (171mm)



54-1046 STRULLY Neurological Scissors,
curved dissecting tip.
Length 8" (203mm)

SCISSORS DURAL

54-1050 TAYLOR Dural Scissors
Length 5³/₄" (146mm)

NOTE: See additional Scissors in GENERAL Section under Scissors.



SCISSORS NEUROLOGICAL

54-1005 ADSON Ganglion Scissors, sharp/sharp.
Length 6¹/₄" (159mm)
54-1006 Straight
Curved



54-1041 DANDY Trigeminal Scissors, angled shaft,
curved sharp tips.
Length 7³/₄" (197mm)



54-1015 MALIS Neurological Scissors, curved,
semi-sharp points.
Length 7" (178mm)

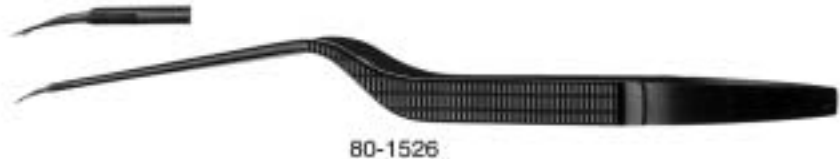
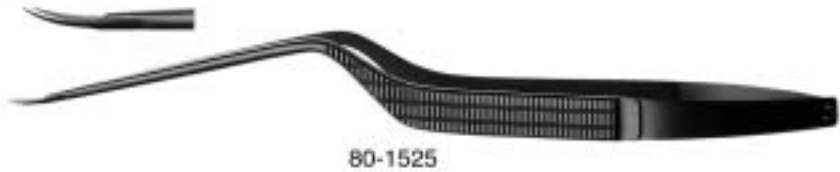
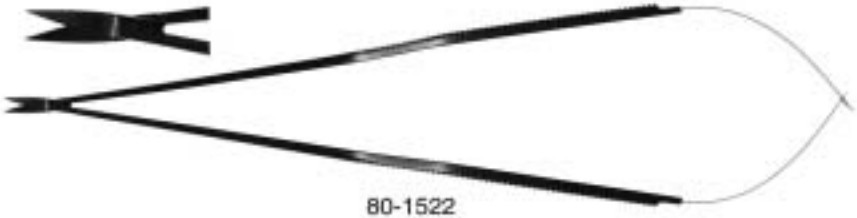


54-1010 MIXTER Operating Scissors, straight,
blunt/blunt.
Length 6" (152mm)



NEUROSURGERY
MICROSURGERY

SCISSORS MICRO BAYONET



	MALIS Scissors, TITANIUM, bayonet.	
	Working distance	3¾" (95mm)
	Length	9½" (235mm)
80-1522	Straight, regular tip	
80-1524	Straight, fine tip	
80-1523	Curved up, regular tip	
80-1525	Curved up, fine tip	
80-1526	Curved down, regular tip	

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

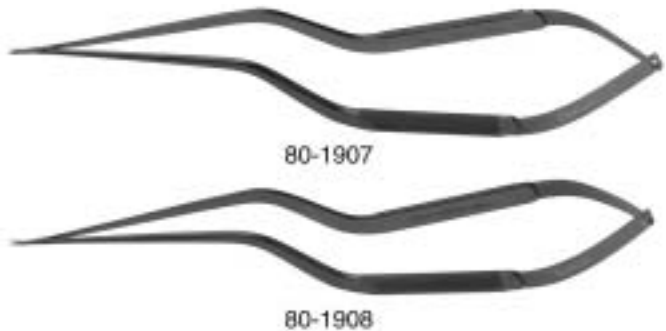
SCISSORS MICRO BAYONET



	RHOTON Scissors, TITANIUM, bayonet.		
	Working distance	3½"	(89mm)
	Length	8½"	(216mm)
80-1722	Straight tip		
80-1723	Curved tip		
	Working distance	3¾"	(95mm)
	Length	9½"	(240mm)
80-1744	Straight tip		
80-1745	Curved tip		

	SPETZLER Neuro-Vascular Scissors		
	Titanium, bayonet		
	Length	9½"	(241mm)
	Working distance	4"	(100mm)
			Blade length
80-1907	Straight tip		4mm
80-1908	30° curved tip		4mm

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.



SCISSORS MICRO, STRAIGHT



E-SERIES* Scissors, straight, TITANIUM,
serrated jaws.
Length 6" (152mm)
80-6008 Fine tip
80-6009 Regular tip



E-SERIES* XF Scissors, TITANIUM.
Length 6" (152mm)
80-6640 Extra Fine, Straight
80-6641 Extra Fine, Curved
80-6642 Extra Fine, 60° Angled, Straight Blade

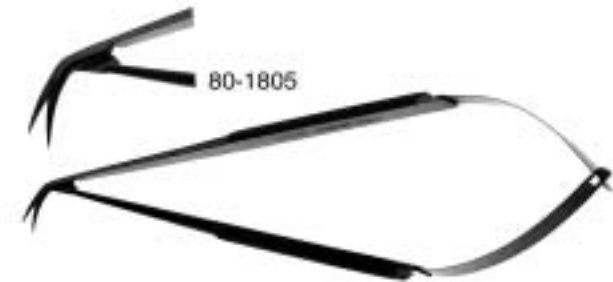
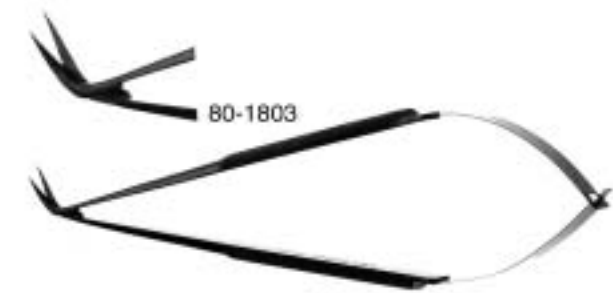


MALIS Scissors, straight, TITANIUM.
Length 6 3/4" (171mm)
80-1520 Fine tip
80-1521 Curved fine tip



SCISSORS MICRO, STRAIGHT

	MICROVASC* Scissors, TITANIUM	
	Length	7" (178mm)
80-1801	Straight tip	
80-1802	Curved tip	
80-1803	Straight tip, 60° right	
80-1804	Curved tip, 60° right	
80-1805	Curved tip, 60° left	



	RHOTON Scissors, TITANIUM.	
	Length	7" (178mm)
80-1720	Straight tip	
80-1721	Curved tip	

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.



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SCISSORS MICRO, STRAIGHT



	MICRO Scissors		
	Length	5½"	(140mm)
80-2005	Straight tip		
80-2006	Curved tip		
	Length	7"	(178mm)
80-2015	Straight tip		
80-2016	Curved tip		

SEPARATORS



65-1104	DORSEY Dural Separator, with groove in blade for knife.		
	Blade width	¾"	(5mm)
	Blade length	1½"	(17mm)
	Total length	6"	(165mm)



65-1100	FRAZIER Dural Separator, tapered blade width ¼" to ⅛" (2 to 3mm).		
	Blade depth	½"	(13mm)
	Total length	6½"	(165mm)



	HOEN Dural Separators		
65-1101	90° angle		
	Blade width	⅛"	(3mm)
	Blade length	½"	(13mm)
	Total length	6"	(152mm)
65-1102	45° angle		
	Blade width	⅛"	(3mm)
	Blade length	½"	(13mm)
	Total length	6½"	(165mm)



65-1108	SACHS Nerve Separator-Spatula		
	Length	7¾"	(197mm)

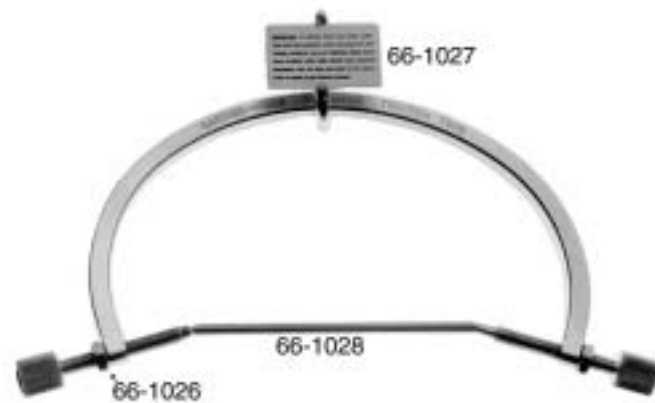
SEPARATORS

65-1135	WOODSON Dural Separator and Packer, double-ended with groove in blade.		
	Blade width	1/8"	(3mm)
	Blade length	1/2"	(13mm)
	Total length	7"	(178mm)



SKULL TONGS

66-1025	GARDNER-WELLS Skull Tongs with one spring-loaded point for cervical traction. Maximum opening 6 1/4" (159mm) Includes:		
66-1026	Adjustment nuts (sold each).		
66-1027	S-Hook		
66-1028	Test Bar		



SPATULAS/SPOONS BRAIN

	CUSHING Brain Spatula-Spoons, double-ended.		
60-1010	Cup widths	1/2" & 3/4"	(13 & 19mm)
	Length	6 3/4"	(171mm)
60-1011	Cup widths	3/4" & 1"	(19 & 25mm)
	Length	7 3/4"	(197mm)



SPATULAS/SPOONS BRAIN



	DAVIS Brain Spatulas, double-ended, malleable, nickel-silver.		
	Length	7"	(178mm)
59-1080	Width	1/4"	(6mm)
59-1081	Width	3/8"	(10mm)
59-1082	Width	1/2"	(14mm)
59-1083	Width	5/8"	(16mm)
59-1084	Width	3/4"	(19mm)
59-1085	Width	1"	(25mm)
59-1086	Width	1 1/4"	(32mm)
59-1087	Width	1 1/2"	(38mm)



	SCOVILLE Brain Spatulas, double-ended, malleable.		
	Length	8"	(203mm)
59-1070	Blade widths	3/8" & 1/2"	(10 & 13mm)
59-1071	Blade widths	5/8" & 3/4"	(16 & 19mm)



59-1000	WOODSON Elevator and Spatula, double-ended, semi-sharp.		
	Blade width	1/8"	(3mm)
	Blade depth	1/2"	(13mm)
	Total length	10"	(254mm)

SPATULAS/SPOONS PITUITARY



CUSHING Pituitary Spoons, malleable copper, silver plated.

	Total length	9¼"	(235mm)
60-1000	No. 1 Cup		
	Cup width	¼"	(6mm)
	Cup length	⅜"	(10mm)
60-1001	No. 2 Cup		
	Cup width	⅝"	(8mm)
	Cup length	½"	(13mm)
60-1002	No. 3 Cup		
	Cup width	⅝"	(8mm)
	Cup length	⅝"	(16mm)
60-1003	No. 4 Cup		
	Cup width	⅜"	(10mm)
	Cup length	⅝"	(16mm)



80-1336	HARDY Pituitary Spoon, bayonet, malleable.		
	Working distance	4¾"	(120mm)
	Length	9¼"	(235mm)

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SPONGE BICOL



80-1460 BICOL* Collagen Sponge, sterile.
The BICOL Sponges are 3" (76mm) x 4" (102mm) and packaged individually sterile, sold ten packages per box.

STRIPS



CODMAN Surgical Strips, sterile, X-ray detectable, 10 strips per package, 20 packages per dispenser box.

80-1449	1/8" x 6"	(3 x 152mm)
80-1450	1/4" x 6"	(6 x 152mm)
80-1451	1/2" x 6"	(13 x 152mm)
80-1452	3/4" x 6"	(19 x 152mm)
80-1453	1" x 6"	(25 x 152mm)
80-1454	1 1/2" x 6"	(38 x 152mm)
80-1455	2" x 6"	(51 x 152mm)
80-1456	3" x 6"	(76 x 152mm)
80-1457	3 1/2" x 6"	(89 x 152mm)

SUCTION TUBES

	ADSON Suction Tubes, curved tip, with thumb piece to control suction.		
70-1146	Diameter	12 Fr.	
	Length	5½"	(140mm)
70-1148	Diameter	15 Fr.	
	Length	7½"	(191mm)

Tube length is measured from top of socket to tip.



16-1014	CONE-BUCY Coagulation Suction Cannula Set, complete with one handle, three insulated suction tubes, and one 29-1002 BUCY-FRAZIER Cord, 11' (3.4m) length. Handle has luer-lock hub and is insulated.		
	Cannula length	4½"	
	Cannula diameter	9 Fr.	
	Cannula diameter	12 Fr.	
	Cannula diameter	16 Fr.	

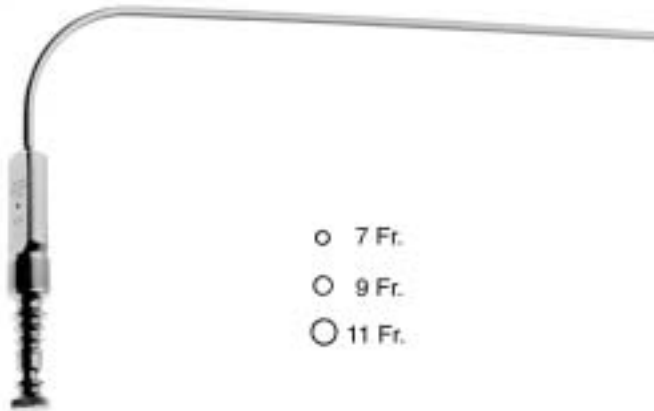


NEUROSURGERY
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	FRAZIER Suction Tubes, straight, with thumb piece to control suction.		
	Tubing length	5¼"	(133mm)
70-1100	Diameter	7 Fr.	
70-1101	Diameter	9 Fr.	
70-1102	Diameter	11 Fr.	



SUCTION TUBES



- 7 Fr.
- 9 Fr.
- 11 Fr.

FRAZIER Suction Tubes, with thumb piece to control suction.		
	Tubing length	4½" (114mm)
	Diameter	7 Fr.
70-1079	Angular	
70-1005	Angular insulated	
	Diameter	9 Fr.
70-1080	Angular	
70-1006	Angular insulated	
	Diameter	11 Fr.
70-1081	Angular	
70-1007	Angular insulated	
	Tubing length	7½" (191mm)
	Diameter	7 Fr.
70-1087	Angular	
70-1015	Angular insulated	
	Diameter	9 Fr.
70-1088	Angular	
70-1016	Angular insulated	
	Diameter	11 Fr.
70-1089	Angular	
70-1017	Angular insulated	

Use 29-1003 FRAZIER cord with cautery attachment.



HARDY Suction Tubes, angular with thumb control, insulated.		
	Diameter	7 Fr.
	Length	7¼" (184mm)
80-1360	Curved left	
80-1361	Curved right	

SUCTION TUBES

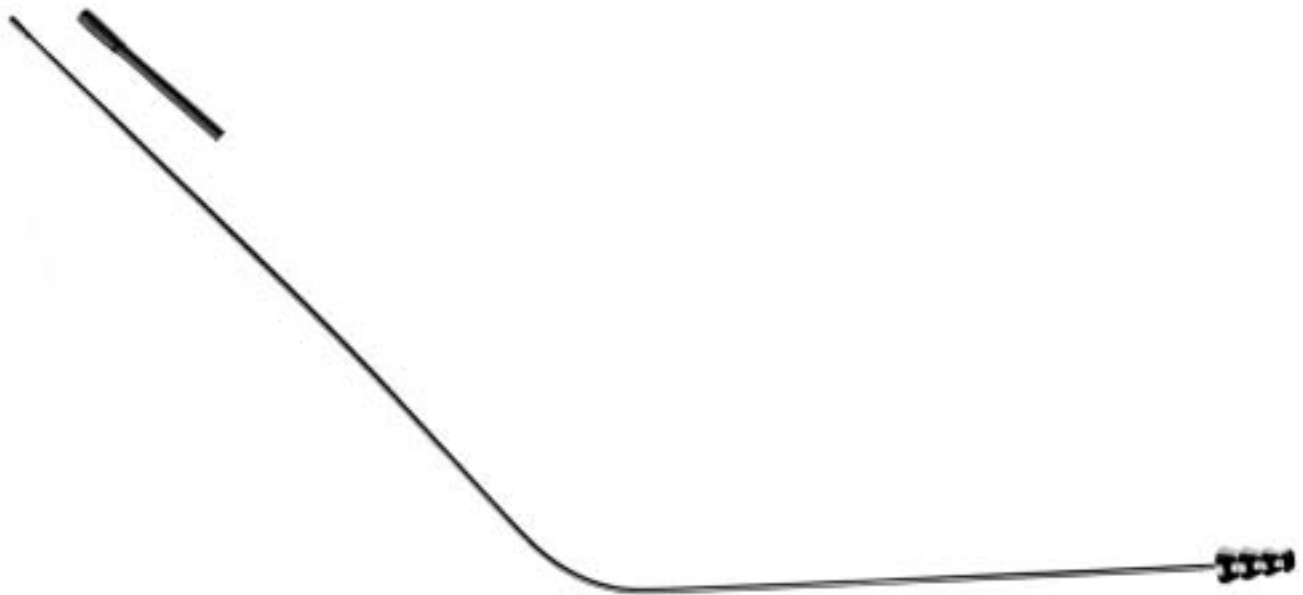
MALIS-FRAZIER Suction Tubes, black anodized.

	Diameter	7 Fr.	
70-1103	Length	4¼"	(108mm)
70-1104	Length	7½"	(191mm)



70-1175	MASON Suction Tube, with cautery attachment and insulation. Use 29-1002 BUCY-FRAZIER or C.S.V. Bovie cord as a special order.		
	Diameter	9 Fr.	
	Tubing length	9"	(229mm)

SUCTION TUBES



YASARGIL Micro Suction Tubes			
	Length	14"	(348mm)
80-1620	Small	Outside diameter	1.7mm
80-1621	Medium	Outside diameter	2.5mm
80-1622	Large	Outside diameter	3.5mm

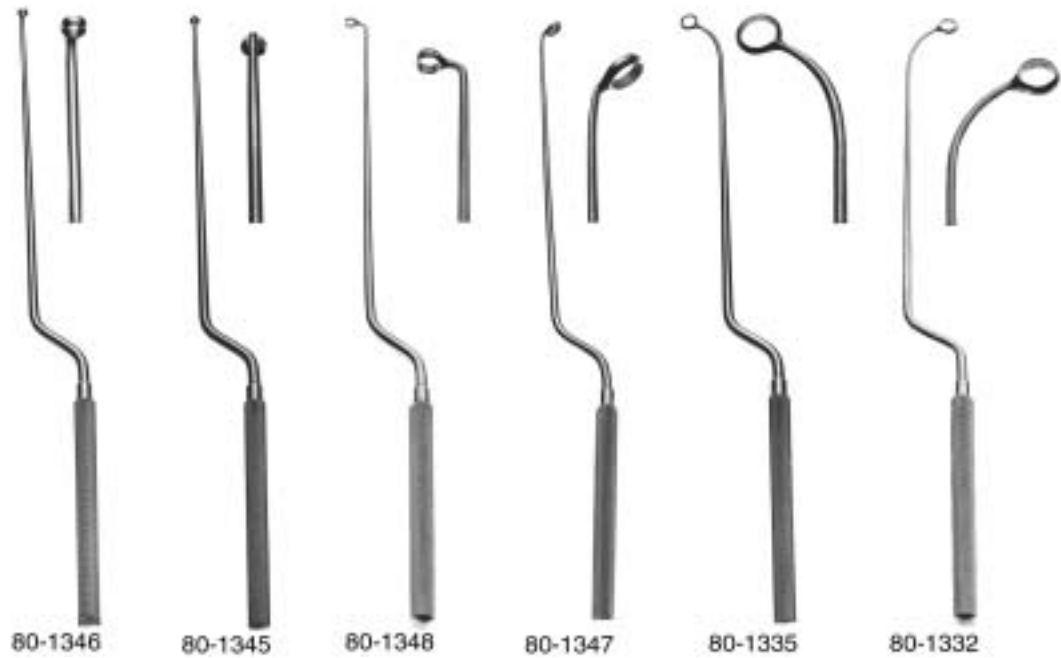


PRIBRAM Suction Tubes, with thumb piece to control suction.			
	Tubing length	5½"	(140mm)
70-1128	Diameter	16 G.	
70-1130	Diameter	18 G.	



SACHS Suction Tubes, with thumb piece to control suction.			
	Shaft length	9⅝"	(241mm)
70-1160	Diameter	8 Fr.	
	Tip length	4"	(102mm)
70-1161	Diameter	15 Fr.	
	Tip length	4½"	(114mm)

TRANSSPHENOIDAL HARDY



HARDY Currettes, bayonet.		
	Working distance	4 ³ / ₄ " (120mm)
	Total length	9 ¹ / ₂ " (241mm)
	Type	Tip Width
80-1346	Angled up	3mm
80-1331	Angled up	5mm
80-1345	Angled down	3mm
80-1330	Angled down	5mm
80-1348	90° Left	3mm
80-1333	90° Left	5mm
80-1347	45° Right	3mm
80-1334	45° Right	5mm
80-1335	Curved left	5mm
80-1332	Curved right	5mm

TRANSSPHENOIDAL HARDY



HARDY Eucleators.		
Working distance	4 $\frac{3}{4}$ "	(120mm)
Length	9 $\frac{1}{2}$ "	(241mm)
Type		Tip Width
80-1311	Left micro	2.4mm
80-1312	Right micro	2.4mm
80-1325	Left	3.4mm
80-1326	Right	3.4mm
80-1329	Reverse curve	3.4mm

The flat of the handle should be down for orientation of working end through the speculum.

TRANSSPHEROIDAL HARDY

	HARDY Micro Dissector, bayonet.		
	Working distance	4¾"	(120mm)
	Length	9½"	(241mm)
	Type		Tip Width
80-1315	Angled up		2mm
80-1316	Angled down		2mm



	HARDY Knife Handle, bayonet.		
	Working distance	4¾"	(121mm)
	Total length	9½"	(241mm)
80-1313	Vertical		
80-1314	Lateral		



80-1366	HARDY Transsphenoidal Mirror, bayonet shape.		
	Working distance	4½"	(114mm)
	Tip width		5.0mm
	Length	9"	(229mm)

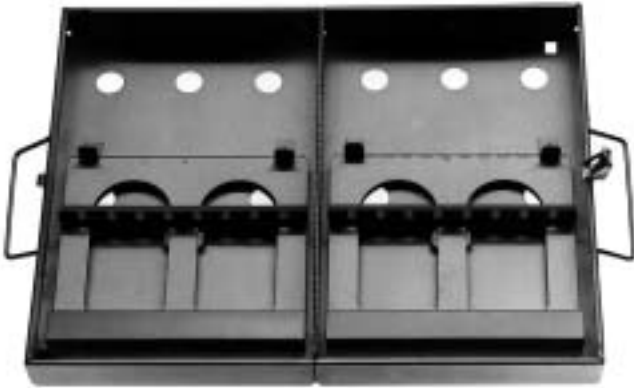


80-1328	HARDY Fork, bayonet, three prong.		
	Working distance	3½"	(89mm)
	Length	9½"	(241mm)



80-1336	HARDY Pituitary Spoon, bayonet, malleable.		
	Working distance	4¾"	(120mm)
	Length	9¼"	(235mm)

TRANSSPHENOIDAL HARDY



80-1355 HARDY Instrument Case, with removable panels, holds approximately 16 bayonet dissectors. (does not hold bipolar forceps.)

Length	11"	(279mm)
Width	7"	(178mm)
Depth	2¼"	(57mm)



	HARDY Sella Punch		
	Length	7"	(178mm)
80-1344	40° Up	Bite	1mm
80-1340	40° Up	Bite	2mm
80-1341	90° Up	Bite	2mm
80-1342	90° Down	Bite	2mm
80-1343	40° Down	Bite	2mm

TRANSSPHENOIDAL HARDY

80-1337 HARDY Lip Retractor is placed around the upper edge of a HARDY Nasal Speculum to keep the prolapsing upper lip out of the narrow field between the two valves during transsphenoidal procedures.



HARDY Nasal Bivalve Specula, black anodized finish, except knob.

80-1350	Small	Length	2¾"	(70mm)
80-1351	Acromegalic	Length	3½"	(90mm)
80-1352	Standard	Length	3⅞"	(80mm)



HARDY Suction Tubes, angular with thumb control, insulated.

	Diameter	7 Fr.	
	Length	7¼"	(184mm)
80-1360	Curved left		
80-1361	Curved right		



NEUROSURGERY/
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VESSEL SUPPORTER



80-1534 MALIS Vessel Supporter, TITANIUM handle,
stainless steel shaft, two prong.
Length $7\frac{3}{8}$ " (187mm)

NOTE: See back of NEUROSURGICAL Section for list of all
Malis, Rhoton and Spetzler instruments.

MALIS TITANIUM MICROSURGICAL INSTRUMENTS



LIGHTER- our titanium alloy is 43% lighter than stainless steel. Lightness means less fatigue, particularly during long procedures.

STRONGER- Titanium is considerably stronger than stainless steel so the working end can be made more delicate.

CORROSION-RESISTANT- The titanium alloy used in CODMAN Microsurgical instruments is far more corrosion resistant than stainless steel, so worries about rusting and pitting are virtually eliminated.

Straight Instruments 6" - 15.2cm

- 80-1500** Forceps, 0.7mm tip
- 80-1501** Forceps, 0.45mm tip
- 80-1508** Forceps, extra-fine 0.25mm tip
- 80-1510** Needle Holder, straight tip, 1.0mm
- 80-1511** Needle Holder, curved tip, 1.0mm
- 80-1514** Needle Holder, fine curved tip, 0.5mm
- 80-1520** Scissors, straight fine tip
- 80-1521** Scissors, curved fine tip
- 80-1552** Bipolar Forceps, 0.45 tip
- 80-1557** Bipolar Forceps, extra-fine tip, 0.25mm

Bayonet Shaped Instruments 8³/₄" - 22.2cm

- 80-1502** Forceps, straight tip, 0.7mm
- 80-1503** Forceps, straight tip, 0.45mm
- 80-1509** Forceps, straight extra-fine tip 0.25mm
- 80-1504** Forceps, curved up tip, 0.7mm
- 80-1506** Forceps, curved down tip, 0.7mm
- 80-1505** Forceps, angled up tip, 0.45mm
- 80-1507** Forceps, angled down tip, 0.45mm
- 80-1512** Needle Holder, straight tip, 1.0mm
- 80-1513** Needle Holder, curved tip, 1.0mm
- 80-1515** Needle Holder, fine straight tip, 0.5mm
- 80-1522** Scissors, straight regular tip
- 80-1523** Scissors, curved up regular tip
- 80-1526** Scissors, curved down regular tip
- 80-1524** Scissors, straight fine tip
- 80-1525** Scissors, curved up fine tip
- 80-1550** Bipolar Forceps, straight tip, 0.45mm
- 80-1553** Bipolar Forceps, straight tip, 0.95mm
- 80-1551** Bipolar Forceps, straight tip, 1.5mm
- 80-1554** Bipolar Forceps, angled up tip, 0.45mm
- 80-1555** Bipolar Forceps, angled down tip, 0.45mm
- 80-1556** Bipolar Forceps, curved up tip, 0.7mm
- 80-1558** Bipolar Forceps, straight extra-fine tip 0.25mm

OTHER MALIS INSTRUMENTS

7"-18cm

- 80-1530** Ligature Passer 3mm hook
- 80-1531** Nerve Hook, 3mm with ball
- 80-1532** Nerve Hook, 2mm
- 80-1533** Nerve Hook, 3mm
- 80-1534** Vessel Supporter, with 2 malleable prongs
- 80-1535** Dissector, angled curved edge
- 80-1539** Dissector, angled, sharp on three sides
- 80-1536** Bayonet Curette
- 80-1537** Straight Elevator, curved tip
- 80-1538** Bayonet Elevator, curved tip
- 80-1541** Round Dissector, 1mm
- 80-1540** Round Dissector, 2mm
- 80-1542** Round Dissector, 3.5mm

RHOTON TITANIUM MICROSURGICAL INSTRUMENTS

Rhoton Straight - 7"/17.5cm

80-1700	Forceps, Extra Fine, .3mm
80-1701	Forceps, Fine, .7mm
80-1704	Bipolar Forceps, Fine, .5mm
80-1705	Bipolar Forceps, Reg., 1.0mm
80-1720	Scissors, Straight Tip
80-1721	Scissors, Curved Tip
80-1725	Needle Holder, Curved Fine Tip, .5mm
80-1726	Needle Holder, Straight Tip
80-1727	Needle Holder, Curved Tip
80-1731	Micro Tissue Forceps, 1x2 Tooth
80-1732	Micro Dressing Forceps, Serrated

Rhoton Bayonets -

8-½"/22cm-Working Distance, 8cm

80-1702	Forceps, Fine, .5mm
80-1703	Forceps, Regular, 1.0mm
80-1706	Bipolar Forceps, Fine, .5mm
80-1708	Bipolar Forceps, Regular, 1.0mm
80-1722	Scissors, Straight Tip
80-1723	Scissors, Curved Tip
80-1728	Needle Holder, Straight Tip
80-1729	Needle Holder, Curved Tip
80-1736	Tumor Forceps, 4mm Ring

9-½"/24cm-Working Distance, 9.5cm

80-1740	Bipolar Forceps, Fine, .5mm
80-1741	Bipolar Forceps, Medium, .7mm
80-1742	Bipolar Forceps, Regular, 1.0mm
80-1743	Bipolar Forceps, 1.5mm
80-1744	Scissors, Straight Tip
80-1745	Scissors, Curved Tip
80-1746	Needle Holder, Straight Tip
80-1747	Needle Holder, Curved Tip
80-1748	Tumor Forceps
80-1749	Forceps, Serrated Tip, 1.5mm

9-½"/24cm-Working Distance, 10cm

80-1711	Bipolar Forceps, Fine, .5mm
80-1713	Bipolar Forceps, Regular, 1.0mm

10-¼"/26cm-Working Distance, 12cm

80-1715	Bipolar Forceps, .7mm
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The Rhoton Micro Dissector Set is designed for use during aneurysm or tumor dissections, and has particular application for acoustic neuromas. Each of the instruments is made from titanium for purposes of balance, durability, and corrosion resistance. The handles of the instruments are made from titanium for purposes of balance and durability and the working ends are stainless steel.

80-1660 Rhoton Micro Dissectors and Case

A.	80-1680	Round Dissector, Small #1
B.	80-1681	Round Dissector, Medium #2
C.	80-1682	Round Dissector, Large #3
D.	80-1683	General Purpose Elevator, Small #4
E.	80-1684	General Purpose Elevator, Large #5
F.	80-1685	Spatula Dissector, Small #6
G.	80-1686	Spatula Dissector, Medium #7
H.	80-1687	Spatula Dissector, Large #8
I.	80-1688	Semi-Sharp Hook, 90°, #9
J.	80-1689	Blunt Hook, 90°, #10
K.	80-1690	Semi-Sharp Hook, 45°, #11
L.	80-1691	Straight Point Needle, #12
M.	80-1692	Micro Curette, Small #13
N.	80-1693	Micro Curette, Large #14
O.	80-1661	Sterilizing - Carrying Case
P.	80-1679	Teardrop Dissector, Straight, #15
Q.	80-1696	Teardrop dissector, 90°, #16, 3mm
R.	80-1697	Teardrop dissector, 90°, #17, 5mm
S.	80-1698	Teardrop dissector, 40°, #18, 4mm
T.	80-1699	Teardrop dissector, 40°, #19, 8mm

SPETZLER NEURO-VASCULAR INSTRUMENTS

Designed for deep neuro-vascular repair, the SPETZLER titanium microsurgical instruments offer an unprecedented advantage.

The extra working length, coupled with the distinct bayonet design, will facilitate their use on deep microsurgical procedures such as:

- Bypass of the superficial temporal artery to the posterior cerebral artery
- Bypass of the superficial temporal artery to the superior cerebral artery
- Arteriovenous malformation
- Intracranial aneurysms
- Posterior fossa applications

Slim design.

Offers easier access through a narrow opening.

10 cm working distance.

For deep vascular repair.

Titanium.

Lightweight, non-corrosive, non-magnetic.

Tungsten coated needleholder.

Aromatic, firm grasp of suture.

Soft tension. (75 gms)

Minimizes hand tremor.

Fine tips.

Precise manipulation of tissue and suture.

Complete set.

Provides a coordinated approach for deep vascular surgery.



- 80-1900** Small Teardrop Dissector, bayonet, angled up 30°
- 80-1901** Small Teardrop Dissector, bayonet, angled up 90°
- 80-1902** Small Spatula Dissector, bayonet, angled up 30°
- 80-1903** Bayonet Bipolar Forceps, straight tip .7mm
- 80-1904** Bayonet Bipolar Forceps, 30° angled tip .7mm
- 80-1905** Bayonet Platform Forceps, straight tip .7mm
- 80-1906** Bayonet Platform Forceps, 30° angled tip .7mm
- 80-1907** Bayonet Scissor, straight tip, 4mm blade length
- 80-1908** Bayonet Scissor, 30° curved tip, 4mm blade length
- 80-1909** Bayonet Needleholder, with catch, 30° curved tip, tungsten coated.
- 80-1910** Micro Vari-Angle Temporary Clip Applier, 30° angled up
- 80-1915** Spetzler Neuro-Vascular Kit, 11 instruments and sterilizing tray

NEUROSURGERY
MICROSURGERY

ADVANCED MONITORING NEUROTREND

CODMAN® NEUROTREND Cerebral Tissue Monitoring System. This new technology provides critical information on PO₂, PCO₂, pH, and temperature in brain tissue to assist the neurosurgeon in effecting positive outcomes.

Trama Applications

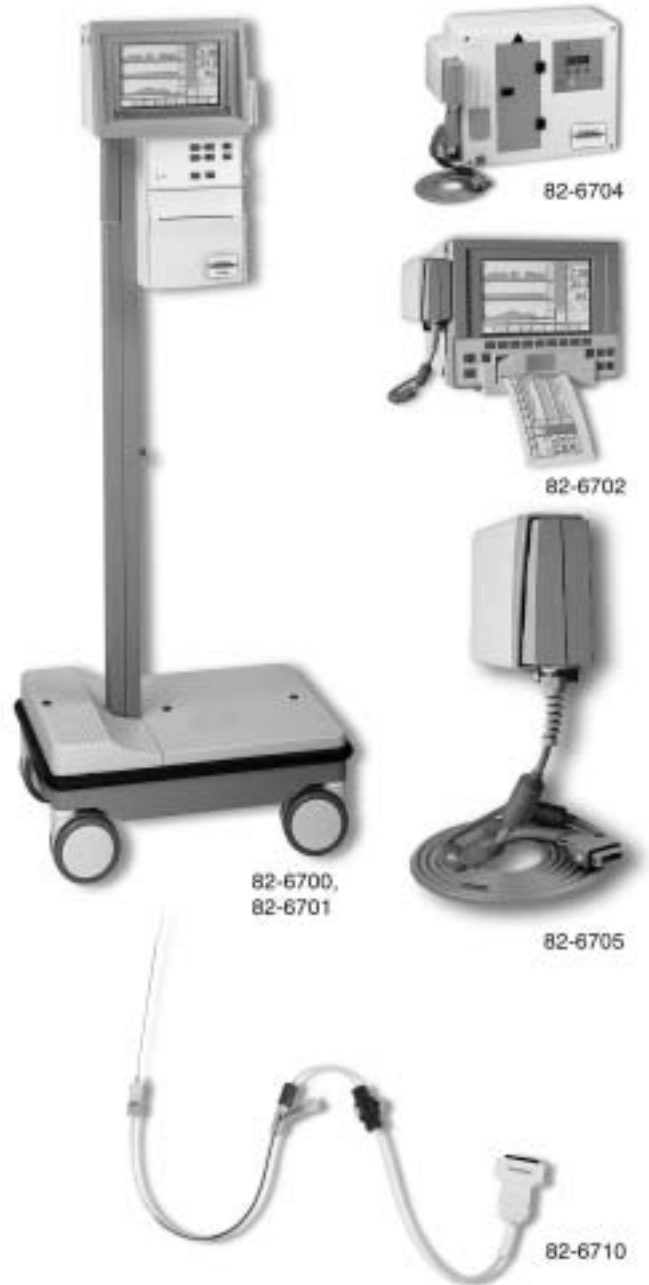
- NEUROTREND can help detect ischemic conditions through O₂ and pH measurement.
- CPP optimization for each patient.
- It can also assist with optimization of FiO₂ through ventilator management.

Cerebrovascular Applications

- NEUROTREND can detect local ischemic events interoperatively during parent vessel clipping.*
- It can also help in the early detection of vasospasm following subarachnoid hemorrhage.

82-6700	Senior Monitoring System (100V-120V)
82-6701	Senior Monitoring System (220V-240V)
82-6702	Satellite Monitor
82-6704	Calibrator
82-6705	Patient Data Module
82-6710	Multi Parameter Sensor (ea.)
82-6711	Multi Parameter Sensor (5 per case)
82-6712	Calibration Gas Pack
82-6713	Printer Paper
82-6720	Sensor Introducer Kit
82-6721	Single Lumen Bolt Kit
82-6722	Double Lumen Bolt Kit

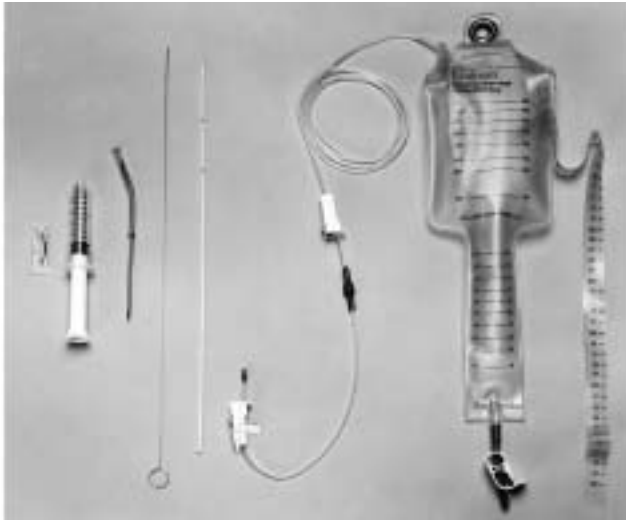
*Hoffman WE, Charbel FT, Abood C, Ausman, JI. Regional ischemia during cerebral bypass surgery. Surg Neurol 1997; 455-9



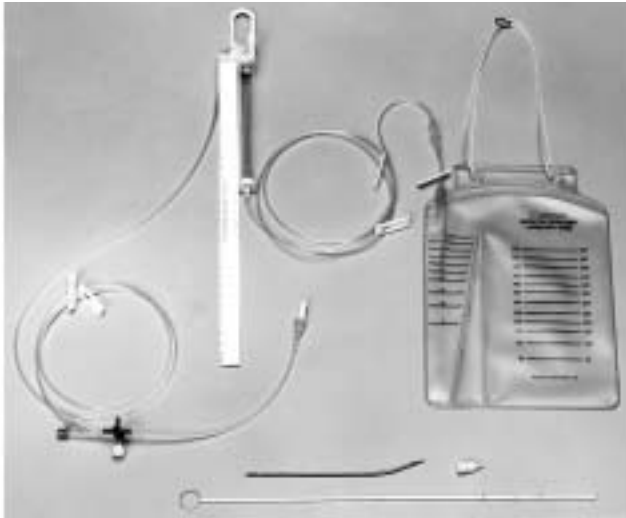
INTRACRANIAL
PRESSURE

DRAINAGE/MONITORING

EXTERNAL DRAINAGE



- 82-1687** HOLTER® External Drainage System
Sterile, disposable. includes tubing clamps, one way valve, injection and sampling site, stainless steel tubing connector, Plastic collection bag with 50cm pressure-measuring tape and drain with clamp, 38cm, radiopaque, silicone catheter, 40.6cm stylet for catheter placement, Subgaleal trocar, 7cc syringe for irrigation and priming.
- 82-1688** HOLTER External Drain Replacement Bag, includes PVC tube with clamps, injection site, collection bag, does not include one-way valve. One/package in a sterile disposable pouch.
-



The CODMAN External Drainage System provides a sterile path, closed from the ventricular catheter to the bag. The kit (82-1700) contains all internal and external components of the system, including a 35cm radiopaque silicone ventricular catheter (1.5mm I.D.; 3.1mm O.D.); 57cm of vinyl tubing equipped with two clamps, a four-way stop cock with a female luer lock port for monitoring, and injection/sampling site; an anti-reflux sterile vented 20cc drip chamber with 30cm tape measure for regulating intracranial pressure and a sterile, vented 650ml capacity graduated vinyl collection bag with 114cm of vinyl tubing with two clamps.

A 36cm straight stainless steel stylet for catheter placement, a curved stainless steel trocar with a barbed end for drawing the catheter subcutaneously and female luer lock cap for the distal end of the catheter are packaged with the catheter in a sterile peel pouch within the tray package

- 82-1700** CODMAN EXTERNAL DRAINAGE SYSTEM (sterile)
- 82-1701** Collection Bag with Tubing (sterile).
- 82-1702** Collection Bag only (sterile). Five per package.
- 82-1703** Pole clamp (non-sterile).
-

DRAINAGE/MONITORING EXTERNAL DRAINAGE

CODMAN External Drainage System II (EDS II), sterile, closed system, integral package with set up instructions clearly marked on the backboard. Attaches to I.V. pole by manifold clamp. Enlarged anti-reflex, movable 75 ml drip chamber calibrated for small I.C.P. measurement, marked in millimeters of mercury and centimeters of water; 700 ml graduated Collection Bag with self-sealing latex-free injection/sampling site. 62 inch (157 cm) patient line with two clamps, two four-way stopcocks select drainage, pressure monitoring, CSF sampling or fluid injection; stopcock at "0" setting on backboard and additional stopcock near patient.

13.8 inch (35 cm) radiopaque silicone ventricular catheter with placement stylet, trocar, luer lock and cap.

- 82-1720** CODMAN External Drainage System II- Complete (Sterile) with Ventricular Catheter
- 82-1721** CODMAN External Drainage System II (Sterile) without Ventricular Catheter
- 82-1722** CODMAN External Drainage System II - Replacement Collection Bags (Sterile) - Package of 5
- 82-1723** CODMAN External Drainage System II-Manifold Pole Clamp (Non-Sterile)
- 82-1724** CODMAN External Drainage System II with the GHAJAR™ Guide Ventriculostomy Kit (Sterile)
- 82-1704** CODMAN Disposable I.C.P. Monitoring Line (Sterile)
- 82-1705** CODMAN External Drainage Ventricular Catheter Set (Sterile)
- 82-1706** CODMAN Lumbar External Drainage Catheter with Touhy Needle (Sterile) and Luer Lock Connector



NOTE: Instructions in six languages: English, French, German, Japanese, Italian, and Spanish.

- 82-1725** EDS-II QUICKLINE® Leveling Device
A leveling device to facilitate proper alignment of the EDS-II (82-1720, 82-1721, 82-1724) to the patients' correct reference point. The QuickLine attaches directly to the EDS II tray.



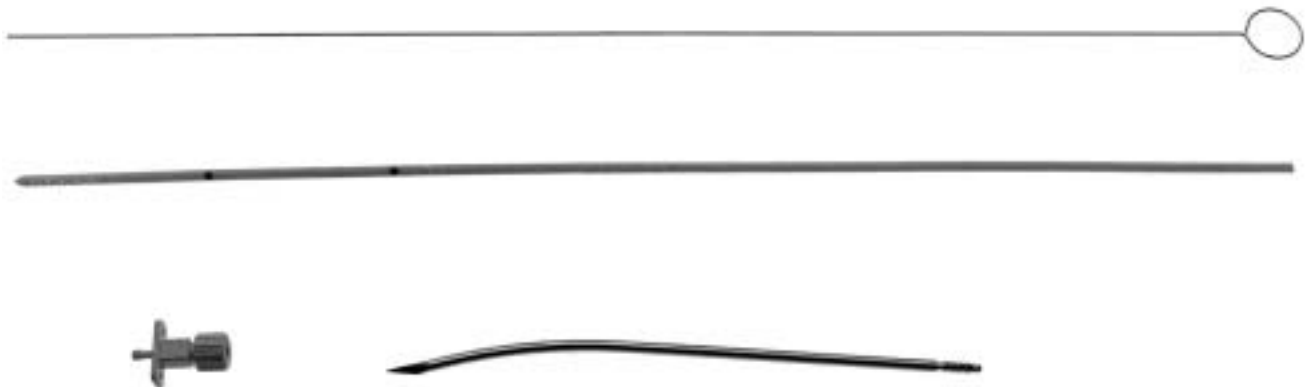
INTRACRANIAL
PRESSURE

DRAINAGE/MONITORING

EXTERNAL DRAINAGE



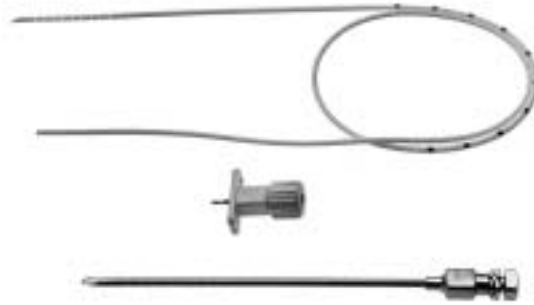
82-1704 CODMAN Disposable ICP Monitoring Line, sterile, provides a means of connecting a ventricular catheter to equipment for monitoring intracranial pressure. A four-way stopcock selects pressure monitoring, drainage, CSF sampling or fluid injection. Supplied with female luer lockport for attachment to drainage system. Use with 82-1705 CODMAN External Drainage Ventricular Catheter Set and 82-1701 CODMAN External Drainage Collection Bag and Tubing Set. Tube length (280mm)



82-1705 CODMAN External Drainage Ventricular Set, sterile, designed to drain CSF from ventricles of the brain. Set includes: Two (2) 35cm radiopaque silicone ventricular catheters (1.5mm I.D., 3.1mm O.D.), 36cm straight stylet, curved trocar, luer lock connector. Can be used with 82-1701 CODMAN External Drainage Collection Bag and Tubing Set and 82-1704 CODMAN Disposable ICP Monitoring Line.

DRAINAGE/MONITORING EXTERNAL DRAINAGE

82-1706 CODMAN Lumbar External Drainage Kit, sterile, used for temporary access to the Lumbar Subarachnoid region as a means of draining CSF to reduce increased intercranial volume and pressure. Consists of a 46cm silicone Lumbar Catheter (I.D. 0.76mm, O.D. 1.65mm), a 14G Touhy Needle with Huber point, a (female Luer Lock Connector and cap for connection to monitoring or CSF collection equipment. 10 Tantalum location markings on catheter. Must be used in conjunction with the CODMAN Drainage collection bag and Tubing Set (82-1701 or 82-1721).



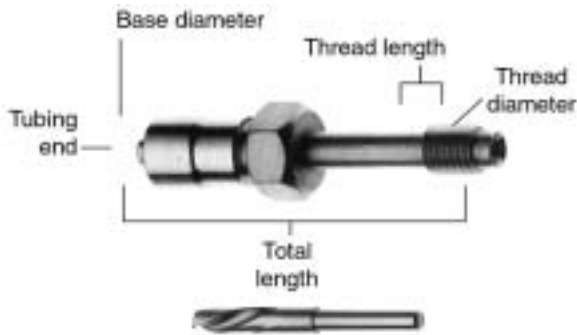
CODMAN Lumbar Drainage Catheter Kit II
The CODMAN Lumbar Drainage Catheter Kit II consists of a lumbar catheter 80cm in length with a closed tip and side holes to allow for drainage without clogging. A Teflon-coated precoiled steel guide wire (approx. 100cm) with an adjustable stop is also included. This kit includes a 14-gauge touhy needle with a clear plastic flash back chamber, centimeter markings, and wings for leverage and ease of use. A female luer lock connector and suture clips made of soft silicone allow for easy connection and attachment to patient.

- 80cm Radiopaque Catheter
- Unique drainage hole pattern with enlarged hole diameter
- 100cm guide wire with dispenser
- 14 gauge touhy needle with 1cm depth markings
- Low profile female luer lock

82-1707 CODMAN Lumbar Drainage Catheter Kit II
82-1708 CODMAN Lumbar Drainage Catheter Kit II with EDS I (82-1701)
82-1709 CODMAN Lumbar Drainage Catheter Kit II with EDS II (82-1721)



DRAINAGE/MONITORING SUBARACHNOID SCREW



80-1180 RICHMOND Subarachnoid Screw, for monitoring intracranial pressure. Attaches through tubing set to intracranial monitor or transducer.

Tubing end diameter	5mm
Base diameter	9.5mm
Thread diameter	6mm
Thread length	6mm
Total length	48mm

80-1181 RICHMOND Subarachnoid Twist Drill drills a (5.9mm) hole for the insertion of RICHMOND Subarachnoid Screw (80-1180). Use 26-1080 BUNNELL Hand Drill with 80-1181 Drill.



80-1182 RICHMOND Subarachnoid Wrench fits on RICHMOND Subarachnoid Screw (80-1180). Allows surgeon to twist screw into seated position.

DRAINAGE/MONITORING SUBARACHNOID SCREW

CODMAN™ Disposable ICP Kit, contains the components needed to implant a subarachnoid screw for the monitoring of intracranial pressure. The kit is available as a complete sterile procedural tray. Each tray is available in an adult and pediatric size and comes with either metal or plastic subarachnoid screws.

Complete Kit

Subarachnoid Screw, Drill Assembly, Vial of Xylocaine, 5 ml Self-retaining Retractor, 5cc Syringe 22 gauge, 1cc Syringe 25 gauge, Spinal Needle 18 gauge, Drapes, Scapel #10, Bone Wax 2.5gm, Forceps, Gauze, 4"x4", Silicone Washer

CODMAN Metal Disposable ICP Kit

80-1190

Complete, Adult

80-1191

Complete, Pediatric

CODMAN Plastic Disposable ICP Kit

80-1196

Complete, Adult

80-1197

Complete, Pediatric

80-1200

Disposable Twist Drill



DRAINAGE/MONITORING VENTRICULOSTOMY KIT



- 80-1185** GHAJAR GUIDE Ventriculostomy Kit
Sterile, used for quick access through the cranium and precision placement of a ventricular catheter for I.C.P. monitoring or C.S.F. drainage. Should be used in conjunction with the CODMAN Drainage Collection Bag and Tubing Set (82-1701).
- Components include:
- Palm grip drill with 4 spacer clips and guide base.
 - 20cm ventricular catheter with styler and plaster insert
 - Luer hub with cap, male end fits into 1.0–1.3 mm I.D. catheter.
 - Tunneling trocar, male end fits into 1.0–1.3 mm I.D. catheter.
 - Cotton applications 6" long, approx 4 per kit.
 - Fenestrated drape, STERI-drape, 15⁵/₈" x 15⁵/₈" with 2¹/₄" hole.
 - Non-fenestrated drape, 18" x 26", 2 per kit.
 - Gauze sponges, 4" x 4", 12 ply. 8 per kit.
 - #15 disposable scalpel.
 - Disposable forceps.
 - Disposable measuring type, 30cm.
 - Disposable marking pen.
 - 18G 3" spinal needle.
 - 5cc syringe with 22G x 1¹/₂" needle.
-

DRAINAGE/MONITORING VENTRICULOSTOMY KIT

CODMAN Cranial Access Kit

A disposable intercranial procedural kit which contains the most commonly used items for cranial access.

Preparation Components:

Double edge razor (1 per)
Betadine (PVP) swabs (3 per)
PVP Solution 30ml package (1 per)
Gauze sponges 4x4 12 ply (10 per)
Medicine cup, 2 oz; 60cc (2 per)

Cranial Access Preparation:

Ruler 6" (1 per)
Marking pen (1 per)
Fenestrated drape w/barrier 15x15 (1 per)
Absorbent towel 15x21 (3 per)

Cranial Access:

Xylocaine 1% w/EPI 30ml (1 per)
Sodium Chloride 0.9% 10cc ampule (2 per)
Syringe 12cc (2 per)
Needle 18g x 1.5 (1 per)
Spinal Needle 18g x 3.5 (1 per)
Needle 25g x 5/8 (2 per)
Needle Ventricular Needle 12g x 5.5 (1 per)
Scalpel #15 (1 per)
Scalpel #11 (1 per)
Retractor Blunt (1 per)
Hand Crank Drill (1 per)
2.7mm drill bit with stop & wrench (1 per)
5.8mm drill bit with stop & wrench (1 per)
Bone Wax (1 per)
Mosquito forceps, curved (2 per)
Culture tube w/screw cap (1 per)

Wound Closure/Dressing:

2.0 Ethicon silk suture (1 per)
3.0 Ethicon nylon suture (1 per)
Needle holder, serrated (1 per)
Adson forceps (1 per)
Adson forceps w/teeth (1 per)
Suture scissors (1 per)
Gauze sponges 2 x 2 4 ply fenestrated (2 per)



82-6614	CODMAN Cranial Access Kit (each)
82-6615	CODMAN Cranial Access Kit (5 per case)
82-6616	CODMAN Cranial Access Kit (without drugs)

DRAINAGE/MONITORING

MICROSENSOR/ICP MONITORING

MICROSENSOR™ ICP Transducer
The CODMAN MICROSENSOR ICP Transducer consists of a miniature strain gauge pressure sensor mounted in a titanium case at the tip of a 100cm flexible nylon tube. The MICROSENSOR monitors intracranial pressure directly at the source - subdural, parenchymal or intraventricular. Information is relayed electronically rather than through a hydrostatic column or fiberoptics. The MICROSENSOR is available in four different kit configurations.



82-6631 MICROSENSOR Basic Kit – Indicated for use in both subdural and intraparenchymal pressure monitoring applications.
Contains the following components:

- CODMAN MICROSENSOR ICP Transducer
- 14 Gauge Touhy Needle



82-6632 MICROSENSOR™ Bolt Kit - Indicated for use in both subdural and intraparenchymal pressure monitoring applications.
Contains the following components:

- CODMAN MICROSENSOR ICP Transducer
- Adult and Pediatric Skull Bolt with Luer
- Spacing Washers
- Touhy-Borst Adapter (mounted on the catheter portion of the transducer)
- Disposable ICP Screw Handle

DRAINAGE/MONITORING MICROSENSOR/ICP MONITORING

MICROSENSOR™ Skull Bolt Kit

Indicated for use in both subdural and intraparenchymal pressure monitoring applications. Contains the following components:

- CODMAN MICROSENSOR ICP Transducer
- Winged, .7mm skull bolt with leak-proof compression cap
- Spacing washer
- Obturator/ Durapierce
- Drill Bit

82-6638 MICROSENSOR Skull Bolt Kit (each)

82-6639 MICROSENSOR Skull Bolt Kit (5 per case)



82-6653 MICROSENSOR™ Ventricular Catheter Kit with ICP transducer is designed for use with the CODMAN ICP EXPRESS® monitor. In conjunction with the ICP EXPRESS unit, the sensor may be used with a wide variety of patient monitoring systems for display of Intracranial pressure ICP wave form, or for consideration of ICP data with other vital clinical monitoring information.

Contains the following components:

- 38cm clear ventricular catheter with preloaded stylet
- Integrated miniature strain gauge pressure transducer
- 7-gauge tunneling trocar for placement



DRAINAGE/MONITORING MICROSENSOR/ICP MONITORING



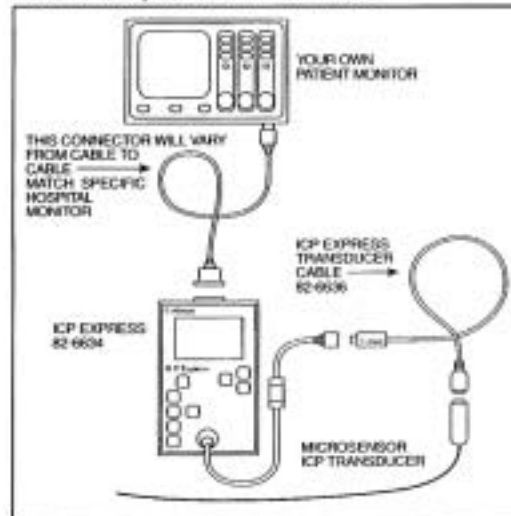
82-6634 ICP EXPRESS

The ICP EXPRESS is a digital intracranial pressure monitor that also serves as an interface between the Codman MICROSENSOR ICP Transducer and patient monitors. When connected to a MICROSENSOR, the ICP EXPRESS provides a continuous numeric display of the mean, systolic and diastolic intracranial pressure.

- User instructions appear directly on screen
- One touch zero function
- Compatible with most patient monitoring systems for full ICP waveform analysis and integration of ICP data with other patient information
- Digital display of systolic, diastolic and mean ICP

The ICP EXPRESS comes complete with integral pole clamp and ICP EXPRESS Cable. If additional ICP EXPRESS Cables are required, they can be ordered separately (82-6636).

Hardware Options: ICP EXPRESS



82-6636 ICP EXPRESS Cable

Connecting cable between the CODMAN MICROSENSOR ICP Transducer (catalog nos. 82-6631, 82-6632, 82-6633 and 82-6638) and the CODMAN ICP EXPRESS (82-6634 and 82-6635). The cable's integral computer memory stores the zero reference value after the transducer zeroing process is complete permitting easy interchange of ICP EXPRESS units and/or patient monitors.

DRAINAGE/MONITORING MICROSENSOR/ICP MONITORING

Patient Monitor Interface Cables
Connects the Interface Control Unit (82-6605)
or ICP EXPRESS® (82-6634 and 82-6635)
to compatible patient monitors already at your
hospital. Contact your representative for
assistance in selecting appropriate cables.

82-6640	Hewlett-Packard Twinax 5S Interface Cable
82-6641	Tektronix 6P Interface Cable
82-6642	Siemens 10P Interface Cable
82-6643	Marquette 8P Interface Cable
82-6644	Spacelabs 5P Interface Cable
82-6645	Spacelabs 6P Interface Cable
82-6646	Hewlett-Packard 12P/R Interface Cable
82-6647	Marquette 11P Interface Cable
82-6648	Siemens 15P Interface Cable (special spring latch)
82-6649	Propaq 6P Interface Cable

Additional special order patient monitor interface cables are also available.

Order through Repair Department (800-343-5969)

92-6624	7268/AB	ABBOT 7P Interface Cable
92-6625	7268/BK-1	BECKMAN P Interface Cable
92-6626	7268/BU-2	BURDICK 10S Interface Cable
92-6627	7268/CO-1	COROMETRICS 3P/3S Interface Cable
92-6628	7268/FD-1	FUKUDA-DENSHI 5P Interface Cable
92-6629	7268GS	GOULD P Interface Cable
92-6630	7268/HE-1	HELLIGE 4P Interface Cable
92-6631	7268/HO-M	HONEYWELL 9P Interface Cable
92-6632	7268/BD	LITTON DATAMEDIX/BECTON DICKINSON 9P Interface Cable
92-6633	7268/LI-1	LITTON DATAMEDIX 4P Interface Cable
92-6634	7268/LI-2	LITTON DATAMEDIX 6P Interface Cable
92-6635	7268/GE-PDS	MARQUETTE/GENERAL ELECTRIC 8P Interface Cable
92-6636	7268/MG	MENNEN 6P Interface Cable
92-6637	7268/NK	NIHON-KOHDEN 5P Interface Cable
92-6638	7268/PC	PSYSIO-CONTROL 6P Interface Cable
92-6639	7268/AO-2	PIONEER 6P Interface Cable
92-6640	7268/SIE-1	SIEMENS 5S Interface Cable
92-6641	7268/SIE-2	SIEMENS 15P Interface Cable
92-6642	7268/CS-2	COBE 6P Interface Cable
92-6643	7268/KO	KONTRON 12P Interface Cable
92-6644	7268/CA	CARE 5P Interface Cable
92-6645	7268/RW-1	RICHARD WEISS Interface Cable
92-6646	7268/PPG-1	PPG 10P Interface Cable (Honeywell RM 300)
92-6647	7268/DATEX-1	DATEX CARDIOCAP 10S Interface Cable
92-6648	7268/ME	MEDTEL 6P Interface Cable
92-6649	7268/RO-1	ROCHE 108 Interface Cable
92-6650	7268/IVY	IVY BIOMED 6P Interface Cable
92-6651	7268/PR	PROTOCOL 6P Interface Cable
92-6652	7268/KO	KONTRON SUPERMON Interface Cable
92-6653	7268/AS-4	SIMONSEN & WEEL Interface Cable
92-6654	7268/HE-2	HELLIGE VICON Interface Cable
92-6655	7268/BR-1	GOULD 12P Interface Cable

HYDROCEPHALUS SHUNT SYSTEMS

ACCU-FLO

CODMAN offers a wide variety of products for the treatment of Hydrocephalus. These products are available in a variety of systems and types. Systems include: ACCU-FLO*, DENVER*, HOLTER*, UNI-SHUNT*, and HAKIM*. In addition to the above systems, CODMAN also offers a selection of low profile valves (CODMAN Low Profile Valve), low profile valves with a siphon control mechanism (SENTINEL Valve), neonatal valves (CODMAN Neonatal Valve) and one-piece catheters for Lumbar to Peritoneal treatment of Hydrocephalus.

*Trademark

ACCU-FLO* System

The ACCU-FLO* System provides a modular approach for either distal or proximal valve control of the release of Cerebral Spinal Fluid. Distal control by use of the ACCU-FLO* Distal Slit Valve Catheters. Proximal control by use of the ACCU-FLO* Pressure Valve.

The ACCU-FLO* Shunt System includes a full line of distal catheters, pressure valves, reservoirs, ventricular catheters, and connectors.

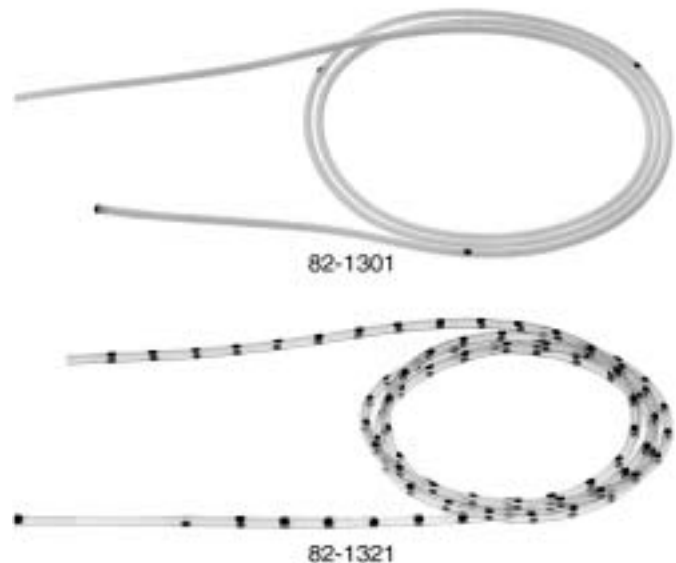
Note: All ACCU-FLO* products are provided sterile.

ACCU-FLO* Catheters, Distal Slit Valve

ACCU-FLO* Distal Catheters are made of silicone tubing, 1.3mm I.D. x 2.5mm O.D. Each catheter has a rounded X-ray detectable tantalum tip. The slit valves in CODMAN's distal valve catheters are 90° apart, and are precisely cut by specially designed machines to achieve more consistent closing pressures.

The pressure of each valve catheter is tested before it is packaged. The dots on each valve catheter indicate the pressure:

- One dot = Low Pressure
2–5 cm H₂O closing pressure
- Two dots = Medium Pressure
5–9 cm H₂O closing pressure
- Three dots = High Pressure
9–14 cm H₂O closing pressure



ACCU-FLO* BARIUM Distal Slit Valve Catheter, sterile, X-ray detectable throughout. X-ray detectable tantalum markings are located 10cm, 20cm, and 30cm from tip.

Length 91cm

**Closing Pressure
(Measured in cm of Water)**

- 82-1301** 2-5cm H₂O Low Pressure
- 82-1302** 5-9cm H₂O Medium Pressure
- 82-1303** 9-14cm H₂O High Pressure

ACCU-FLO* Catheter, clear, sterile, X-ray detectable tantalum markings are located every 1cm.

Length 91cm

**Closing Pressure
(Measured in cm of Water)**

- 82-1321** 2-5cm H₂O Low Pressure
- 82-1322** 5-9cm H₂O Medium Pressure

HYDROCEPHALUS SHUNT SYSTEMS ACCU-FLO

82-1380 ACCU-FLO* Barium Distal Open End Catheter, sterile.
Made of barium impregnated silicone tubing or spring imbedded clear silicone tubing, 1.3mm I.D. x 2.5mm O.D. X-ray detectable. Each catheter has 24 drainage holes, four rows of six holes, 90° apart. X-ray detectable tantalum markings are at the distal 10cm, 20cm, and 30cm.
Length 91cm



All ventricular catheters are packaged sterile and are made from silicone tubing, 1.3mm I.D. x 2.5mm O.D.
82-1201 ACCU-FLO* Barium Ventricular Catheter, sterile.
X-ray detectable throughout. Rounded X-ray detectable tantalum tip. X-ray detectable tantalum markings, 5cm and 10cm. With 40 inlet holes, four rows of ten holes, 90° apart. Includes sterile stainless steel stylet.
Length 15cm



82-1212 ACCU-FLO* Barium Flanged Ventricular Catheter, sterile.
X-ray detectable throughout. Tapered flanged tip. X-ray detectable tantalum markings, 5cm and 10cm. With eight inlet holes, two rows of four holes, 180° apart. With nine flanges; five full and four split, to fold over inlet holes during catheter insertion. The split flanges over the midline of the holes help strain fluid and particulate. The flanges help prevent the catheter from lying flat against wall of ventricles. Includes sterile stainless steel stylet.
Length 15cm



82-1203 ACCU-FLO* Clear Ventricular Catheter, sterile.
Rounded X-ray detectable tantalum tip. X-ray detectable tantalum mark at 15cm. With 40 inlet holes, four rows of ten holes, 90° apart.
Length 30cm



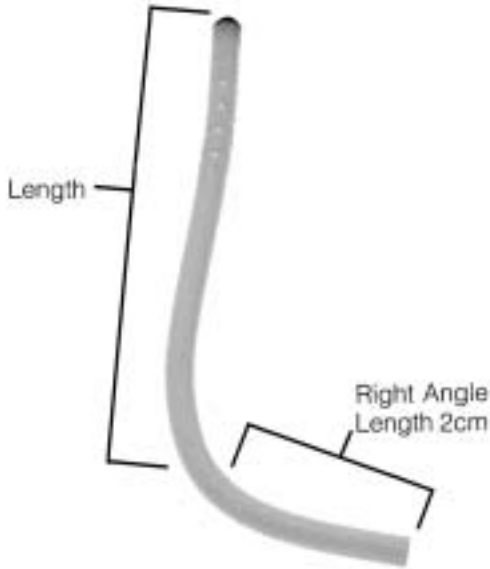
INTRACRANIAL
PRESSURE

HYDROCEPHALUS SHUNT SYSTEMS

ACCU-FLO



82-1221 ACCU-FLO* Dotted Ventricular Catheter, sterile. Rounded X-ray detectable tantalum tip. Clear silicone tubing with X-ray detectable tantalum markings every 1cm. With 40 inlet holes, four rows of ten holes, 90° apart. Includes sterile stainless steel stylet.
Length 15cm



ACCU-FLO* Barium Right Angle Ventricular Catheters, sterile. X-ray detectable throughout. Rounded X-ray detectable tantalum tip. With 40 holes, four rows of ten holes, 90° apart. Includes sterile stainless steel stylet.
Length

82-1231	5cm
82-1232	7cm
82-1233	9cm
82-1234	11cm



82-1507



82-1511



82-1504



82-1501



82-1520



82-1521

All ACCU-FLO* Connectors are 316-L stainless steel or plastic, 1.0mm I.D. x 1.9mm O.D. with beveled ends. Each is X-ray detectable and packaged sterile. The connectors are grooved to hold sutures for preventing catheter disconnection.

ACCU-FLO* Right Angle Connectors, sterile.

82-1507 Plastic

82-1511 Metal

ACCU-FLO* Straight Connectors, sterile.

Plastic Length 17mm

Metal Length 11mm

82-1504 Plastic

82-1501 Metal

ACCU-FLO* Three Way Connectors, Y-shaped, sterile, with a straight metal or plastic non-spring connector in each leg.

82-1520 Plastic

82-1521 Metal

HYDROCEPHALUS SHUNT SYSTEMS ACCU-FLO

ACCU-FLO® CSF Reservoirs are made from one-piece puncturable silicone with an embedded plastic base, with suture holes for anchoring. Each reservoir has been pretested for pressure leaks and is packaged sterile.

Note:

A 25 gauge, or smaller, “Huber” type needle should be used to puncture the ACCU-FLO Reservoirs.

ACCU-FLO Reservoirs are used for ventricular medication or aspiration. Each one is provided with a barium ventricular catheter (82-1201) and a straight connector (82-1501).

- 82-6100** ACCU-FLO CSF Reservoir, 14mm, sterile, fits 14mm burr hole.
- 82-6101** ACCU-FLO CSF Reservoir, 24mm, sterile, fits 24mm burr hole.



ACCU-FLO* Reservoirs, used in line in the ACCU-FLO* System, between the ventricular portion and distal catheter portion. Each reservoir has suture holes for anchoring purposes.

- 82-1401** ACCU-FLO* Burr Hole Reservoir, 14mm, sterile.
- 82-1411** ACCU-FLO* Single Dome Flat Bottom Reservoir, sterile, with reinforced backing.
- 82-1421** ACCU-FLO* Double Dome Flat Bottom Reservoir, sterile, with reinforced backing.



82-1401



82-1411



82-1421

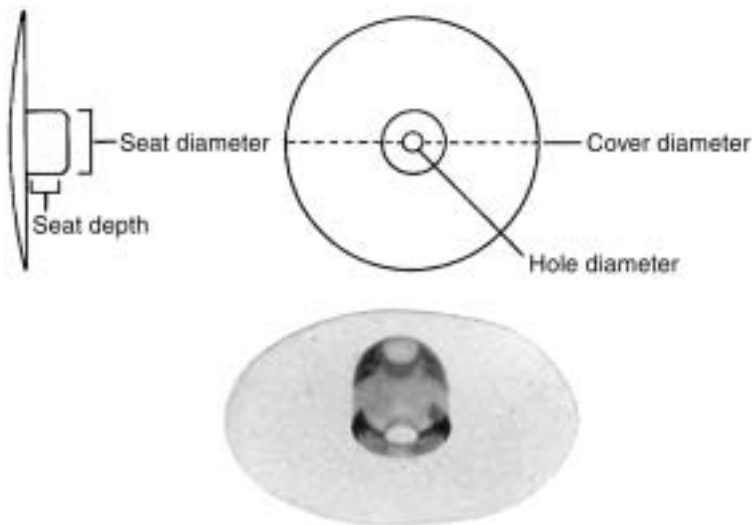
HYDROCEPHALUS SHUNT SYSTEMS

ACCU-FLO ACCESSORIES



82-6010 ACCU-FLO* Burr Hole Buttons, sterile, 10 per package, individually wrapped. These buttons secure the bone flap into place, eliminating the need to wire the bone flap after a craniotomy. They allow slight flap movement in case of swelling after surgery.

Button length	35mm
Cover diameter	29mm
Stem thickness	4.1mm



ACCU-FLO* Burr Hole Covers, sterile, 10 per package individually wrapped. Each burr hole cover has a low profile design to fit into a burr hole after cranial surgery. There is a center hole for insertion of a ventricular needle, if needed postoperatively.

	Hole diameter	3mm
	Cover diameter	35mm
	Silicone rubber	
82-6025	Seat diameter	10mm
	Seat depth	6mm
82-6026	Seat diameter	16mm
	Seat depth	10mm

HYDROCEPHALUS SHUNT SYSTEMS

HAKIM PRECISION VALVE SYSTEM

HAKIM™ Micro Valve System.
Micro Valve, Precision, with unitized
distal catheter.

The system contains one each:

- Valve and unitized distal catheter
- Ventricular catheter with stylet
- Right angle adapter
- Straight connector
- Priming adapter
- Information manual

82-3035	Very Low Range	10mm H ₂ O
82-3036	Low Range	40mm H ₂ O
82-3037	Medium Range	70mm H ₂ O
82-3038	Medium High Range	100mm H ₂ O
82-3039	High Range	130mm H ₂ O



HAKIM™ Micro Valve with Rickham Reservoir
and unitized distal catheter. The pre-attached
Rickham has a plastic base. Micro Valves are
dotted for pressure range identification. Example,
one dot indicates a very low pressure valve and
five dots indicates a high pressure valve.

The system contains one each:

- Valve with pre-attached Rickham Reservoir
and unitized distal catheter
- Ventricular catheter with stylet
- Priming adapter
- Information manual

82-3021	Very Low Range	10mm H ₂ O
82-3022	Low Range	40mm H ₂ O
82-3023	Medium Range	70mm H ₂ O
82-3024	Medium High Range	100mm H ₂ O
82-3025	High Range	130mm H ₂ O



HYDROCEPHALUS SHUNT SYSTEMS

HAKIM PRECISION VALVE SYSTEM

STANDARD	STANDARD WITHOUT PRECHAMBER	UNITIZED	VALVE & PRECHAMBER ONLY
<ul style="list-style-type: none"> Valve Unit with Prechamber 14cm Ventricular Catheter & Stylet Right Angle Adapter Straight Connector 85cm Peritoneal Catheter Valve Introducer 	Valve Unit without Prechamber 14cm Ventricular Catheter & Stylet Right Angle Adapter Straight Connector 85cm Peritoneal Catheter Valve Introducer	Valve Unit and Prechamber with Attached Peritoneal Catheter 14cm Ventricular Catheter & Stylet Right Angle Adapter Straight Connector Valve Introducer	Valve Unit and Prechamber Valve Introducer
82-3001 82-3002 82-3003 82-3004 82-3005	82-3016 82-3017 82-3018 82-3019 82-3020	82-3006 82-3007 82-3008 82-3009 82-3010	82-3011 82-3012 82-3013 82-3014 82-3015

HAKIM Precision Valve System

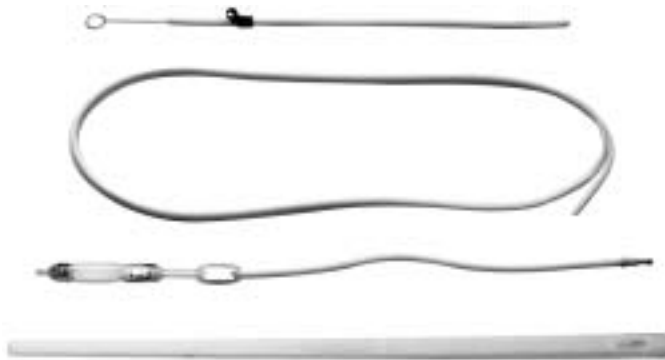
The HAKIM Precision Valve System is available in five different operating pressures, ranging from Very Low to High. Accuracy is maximized because these distinct pressures each have a narrow range, with no overlap between them. The system is available in four configurations: standard with pre-chamber, standard without pre-chamber, unitized, and valve pre-chamber only.

Accuracy and stability are achieved by using a unique undistorted spring design in concert with a perfectly matched ruby ball and valve seat. When the pressure exerted by CSF exceeds the opening pressure, the ruby ball rises from its seat allowing CSF to flow through the valve mechanism.

The low profile design is ideal for both adult and pediatric patients. The silicone tubing is radiopaque and the metal components of the valve are made from thin titanium and stainless steel which allows for minimal artifact in MRI and CT scanning. Each pressure range is coded for easy identification:

- Very Low Range 10mm H₂O
- Low Range 40mm H₂O
- Medium Low Range 70mm H₂O
- Medium High Range 100mm H₂O
- High Range 130mm H₂O

(NOTE: all pressure ranges have a tolerance of ± 10 mm H₂O)



HAKIM Precision Valve Standard

82-3001	Very Low Range	10mm H ₂ O
82-3002	Low Range	40mm H ₂ O
82-3003	Medium Low Range	70mm H ₂ O
82-3004	Medium High Range	100mm H ₂ O
82-3005	High Range	130mm H ₂ O

HYDROCEPHALUS SHUNT SYSTEMS

HAKIM PRECISION VALVE SYSTEM

	HAKIM™ Precision Valve Standard without Pre-Chamber	
82-3016	Very Low Range	10mm H ₂ O
82-3017	Low Range	40mm H ₂ O
82-3018	Medium Low Range	70mm H ₂ O
82-3019	Medium High Range	100mm H ₂ O
82-3020	High Range	130mm H ₂ O



	HAKIM™ Precision Valve - Unitized	
82-3006	Very Low Range	10mm H ₂ O
82-3007	Low Range	40mm H ₂ O
82-3008	Medium Low Range	70mm H ₂ O
82-3009	Medium High Range	100mm H ₂ O
82-3010	High Range	130mm H ₂ O



	HAKIM Precision Valve Valve and Pre-Chamber only (supplied with valve introducer only)	
82-3011	Very Low Range	10mm H ₂ O
82-3012	Low Range	40mm H ₂ O
82-3013	Medium Low Range	70mm H ₂ O
82-3014	Medium High Range	100mm H ₂ O
82-3015	High Range	130mm H ₂ O



82-3041	HAKIM Ventricular Catheter, 14cm Supplied with stylet, introducer, and right angle adaptor. (1.4mm I.D. x 2.7mm O.D.)	
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HYDROCEPHALUS SHUNT SYSTEMS

HAKIM PRECISION VALVE SYSTEM



82-3044 HAKIM Atrial Catheter, 46cm
(1mm I.D. x 2.2mm O.D.)



82-3045 HAKIM Peritoneal Catheter, 85cm
(1mm I.D. x 2.2mm O.D.)



82-3048 HAKIM Straight Connector
Stainless steel (1.07mm I.D. x 2.08mm O.D.)



82-3049 HAKIM Right Angle Connector
Stainless steel (1.02mm I.D. x 1.91mm O.D.)

HYDROCEPHALUS SHUNT SYSTEMS HAKIM PRECISION VALVE SYSTEM

82-3052 HAKIM Right Angle Adaptor, plastic



82-3056 HAKIM Tube Passer, stainless steel



HYDROCEPHALUS SHUNT SYSTEMS

HAKIM PROGRAMMABLE VALVE SYSTEM



Valve w/Prechamber



Standard Valve



Micro Valve



Micro Valve w/Rickham Reservoir



Codman Hakim Programmer



Programmable Valve

CODMAN HAKIM Programmable Valve (CHPV)

CHPV Standard Systems

System includes: Programmable Valve, straight ventricular catheter, stylet, right-angle adapter, straight connector, drainage catheter, valve introducer and information manual.

82-3101

82-3100

82-3111

CHPV System without prechamber

CHPV System with prechamber

CHPV System with prechamber and unitized distal catheter

CHPV MicroValve Systems

System includes: Programmable Valve with unitized distal catheter, straight ventricular catheter, stylet, right-angle adapter and straight connector with model 82-3114, priming adapter and information manual.

82-3113

82-3114

CHPV MicroValve System with integral RICKHAM™ Reservoir and unitized distal catheter

CHPV MicroValve System and unitized distal catheter

CHPV, No Catheters

System includes: Programmable Valve, straight connector(s) introducer (model 82-3110), priming adapter (model 82-3112) and information manual.

82-3110

82-3112

CHPV with prechamber, no catheters

CHPV MicroValve, no catheters

CHPV Programmer

82-3121

82-3130

CODMAN HAKIM Programmer

CODMAN HAKIM Transmitter, (replacement part)

Accessories:

82-3041

82-3044

82-3045

82-3052

82-1694

82-1501

82-1504

82-1520

82-1521

HAKIM Ventricular Catheter, 14cm

HAKIM Atrial Catheter, 46cm

HAKIM Peritoneal Catheter, 85cm

HAKIM right-angle adapter

Straight metal connector, HOLTER®

ACCU-FLO® straight metal connector

ACCU-FLO straight plastic connector

ACCU-FLO three-way plastic connector

ACCU-FLO three-way metal connector

HYDROCEPHALUS SHUNT SYSTEMS HOLTER

HOLTER* Valve Systems

The HOLTER Valve System represents three decades of development and experience with dual valve shunting. The HOLTER system's modular design provides a proximal control of pressure. The proximal control valve is a positive displacement pump with a dual valve design. This increases the protection against runoff if biological debris should hold one valve open. It also acts as a double protection against reflux.

All HOLTER products are provided sterile for convenience except HOLTER connectors which are supplied non-sterile when ordered individually.

HOLTER Valves

The HOLTER Valves are manufactured from silicone rubber and passivated 316-L stainless steel.

CODMAN provides three style HOLTER Valves:

- Straight
- Elliptical
- Mini-Elliptical

The valve is identified by lot number and by a letter designating one of four pressure ranges. An arrow on each valve indicates the direction of flow.

- H = High
- M = Medium
- L = Low
- EL = Extra Low

HOLTER Valve Construction

Three Basic Components

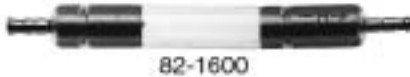
1. One inlet valve assembly.
 2. Connector tubing.
 3. One outlet valve assembly.
- Inlets and outlets each contain adapters for fixation of catheters.
 - Cylindrical valve body contains and protects condom-shaped slit valve.
 - Helically wound internal wire prevents inversion of slits, thus preventing reflux.

Assembly

- Extremely close tolerance of all mating parts.
 - No reflux.
 - Straight-through alignment of all components.
 - Completed assembly functions as a positive displacement unidirectional pump.
-

HYDROCEPHALUS SHUNT SYSTEMS

HOLTER



HOLTER STRAIGHT Valves, sterile. A straight low profile standard sized valve.

Typical Pressure Range**

82-1600	76–110mm H ₂ O High Pressure
82-1601	41–75mm H ₂ O Medium Pressure
82-1602	11–40mm H ₂ O Low Pressure
82-1603	0–10mm H ₂ O Extra Low Pressure

**These are typical specifications to which the mean pressure of the valve population, when tested at a flow rate of 8.6 cc/hr., must conform. The purpose of the testing is to assure uniform quality of product which, through historical use and clinical investigation, has been shown to be effective in the relief of hydrocephalus.



HOLTER* ELLIPTICAL Valves, standard, sterile. The elliptical style connector tube provides additional pumping volume and increased sensitivity for patency checks.

Typical Pressure Range**

82-1604	76–10mm H ₂ O High Pressure
82-1605	41–75mm H ₂ O Medium Pressure
82-1606	11–40mm H ₂ O Low Pressure
82-1607	0–10mm H ₂ O Extra Low Pressure



HOLTER* MINI ELLIPTICAL Valves, sterile. A 20% smaller valve than the standard elliptical valve with the same performance characteristics. For pediatric use, or where excessive skin tension must be avoided.

Typical Pressure Range**

82-1608	76–110mm H ₂ O High Pressure
82-1609	41–75mm H ₂ O Medium Pressure
82-1610	11–40mm H ₂ O Low Pressure
82-1611	0–10mm H ₂ O Extra Low Pressure

**These are typical specifications to which the mean pressure of the valve population, when tested at a flow rate of 8.6 cc/hr., must conform. The purpose of the testing is to assure uniform quality of product which, through historical use and clinical investigation, has been shown to be effective in the relief of hydrocephalus.

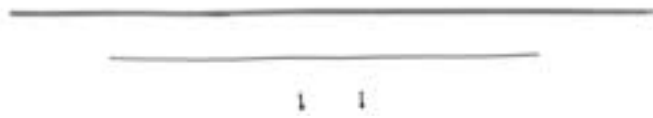
HYDROCEPHALUS SHUNT SYSTEMS HOLTER

HOLTER* Distal Atrial Catheters, sterile, barium impregnated with two lumen configurations to meet various shunting needs. Large lumen styles have an I.D. of 1.2mm and an O.D. of 2.5mm. The small, or stepped down portion lumen have an I.D. of .8mm and an O.D. of 1.3mm.

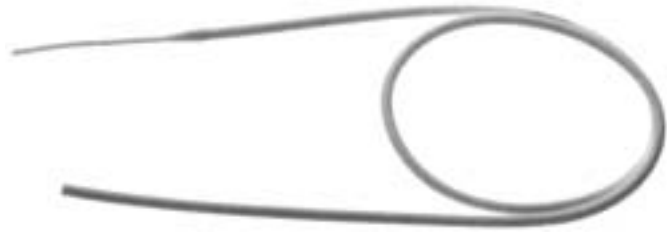
82-1670 HOLTER* Distal Atrial Catheter, Type A, barium, sterile. Large lumen Catheter.
Total length 45cm
Supplied with two sterile 82-1694 HOLTER* Type A connectors.



82-1672 HOLTER* Distal Atrial Catheter, Type B. barium two piece, sterile
Small Catheter Length 15cm
Large Catheter Length 23cm
Total length 38cm
Supplied with two sterile 82-1695 HOLTER* Type B connectors.



82-1674 HOLTER Distal Atrial Catheter, Type C Barium, sterile.
Small Catheter Length 3cm
Large Catheter Length 39cm
Total length 42cm
Supplied with one sterile HOLTER Type C connector imbedded in the large catheter 7 cm from the junction of the small and large catheter portion allowing for suture ties, without restricting flow.



HYDROCEPHALUS SHUNT SYSTEMS

HOLTER



82-1676 HOLTER* Distal Atrial Catheter, Type E, barium, sterile.

Small Catheter Length	24cm
Large Catheter Length	24cm
Total length	48cm

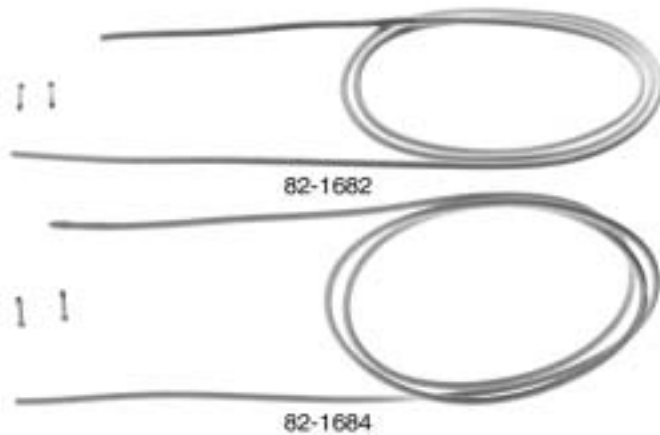
Supplied with one sterile 82-1694 HOLTER* Type A Connector.



82-1678 HOLTER* Distal Atrial Catheter, type H, barium, sterile.

Small Catheter Length	39cm
Large Catheter Length	3cm
Total length	41cm

The HOLTER* Type H Distal Catheter is supplied with no connectors.



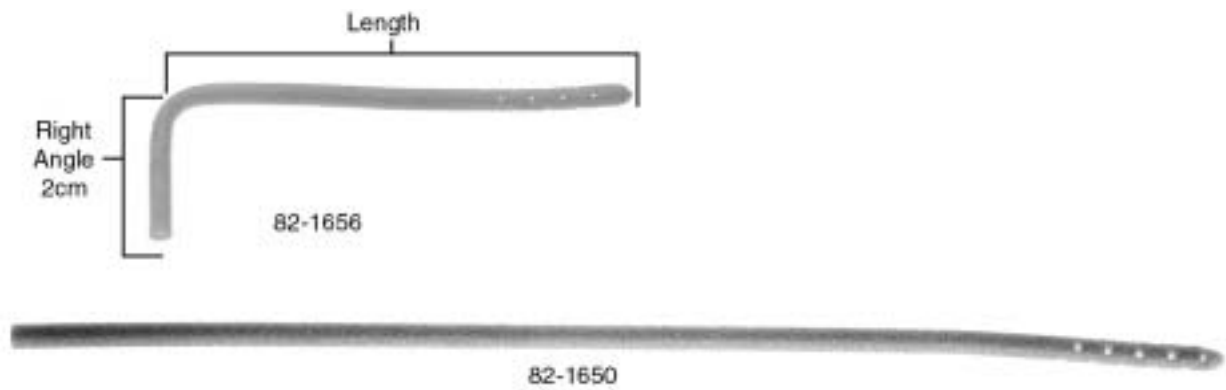
HOLTER* Distal Peritoneal Catheters, barium, sterile.

Barium impregnated with an I.D. of 1.2mm and an O.D. of 2.5mm. Supplied with two sterile 82-1694 HOLTER* Type A connectors.

Length	90cm
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82-1682 Open end
82-1684 SALMON style, closed distal tip with four side slits 90° apart. The tip is solid silicone and is more heavily opacified for positive X-ray identification.

HYDROCEPHALUS SHUNT SYSTEMS HOLTER



CODMAN's HOLTER* System provides both straight and right angle ventricular catheters. The right angle catheters are designed for use when a reservoir is not required. All ventricular catheters have a 3.1mm O.D. and a 1.5mm I.D.. All ventricular tips have multiple perforations. HOLTER* Ventricular Catheters are barium impregnated X-ray detectable and are supplied sterile with a stainless steel sterile stylet to assist in implantation.

HOLTER* Ventricular Catheter, barium, right angle, sterile.

Length

82-1652	3cm
82-1654	4cm
82-1656	5cm
82-1658	6cm
82-1660	7cm
82-1662	8cm
82-1664	9cm
82-1666	10cm
82-1650	HOLTER* Ventricular Catheter, barium, straight, sterile.
	Length 15cm

HYDROCEPHALUS SHUNT SYSTEMS

HOLTER



HOLTER* Ventricular Catheter - Reservoirs (also referred to as Cerebral Catheter Reservoirs)

The Ventricular Catheter-Reservoir is an all silicone rubber reservoir and right-angle catheter molded together as one unit, X-ray detectable. The dome-shaped reservoir has a base made of reinforced sheeting, coated with silicone rubber. The reservoir has a height of 6.0mm, and the base, which extends beyond the diameter of the reservoir to accommodate sutures, has a diameter of 15.7mm.

The catheter segment and distal end of the Catheter-Reservoir has a 1.5mm inside diameter and a 3.1mm outside diameter. The distal end of the Catheter-Reservoir is designed to accommodate the inlet adapter of a HOLTER* Valve when the reservoir is used in a shunt system.

Included with the HOLTER* Ventricular Catheter Reservoir are:

A stainless steel stylet, for the insertion of the ventricular portion of the catheter.

A stainless steel plug, inserted in the distal end of the reservoir. Note: The plug should be removed when the HOLTER* Ventricular Catheter-Reservoir is being used in a shunt system.

HOLTER* Ventricular Catheter-Reservoir, barium, right angle, sterile.

Length

82-1630	3cm
82-1632	4cm
82-1634	5cm
82-1636	6cm
82-1638	7cm
82-1640	8cm
82-1642	9cm
82-1644	10cm

HYDROCEPHALUS SHUNT SYSTEMS HOLTER

- 82-1694** HOLTER* Type A Connector, stainless steel, five per pack, non-sterile.
Length 10.4mm
Sterile Type A connectors are supplied with the following HOLTER* products:
two each with 82-1670 Type A Atrial Catheter
one each with 82-1676 Type E Atrial Catheter
two each with 82-1697 Stunt Filter
two each with 82-1682 Type A Peritoneal Catheter
two each with 82-1684 SALMON Peritoneal Catheter
- 82-1695** HOLTER* Type B Connector, stainless steel, five per pack, non-sterile.
Length 8mm
Sterile Type B connectors are supplied with the following HOLTER* products:
two each with 82-1672 Type B Atrial Catheter



- 82-1696** HOLTER* Type T Connector, one per pack, non-sterile.
For bilateral drainage with one valve or for multiple connectors using ventricular catheters.

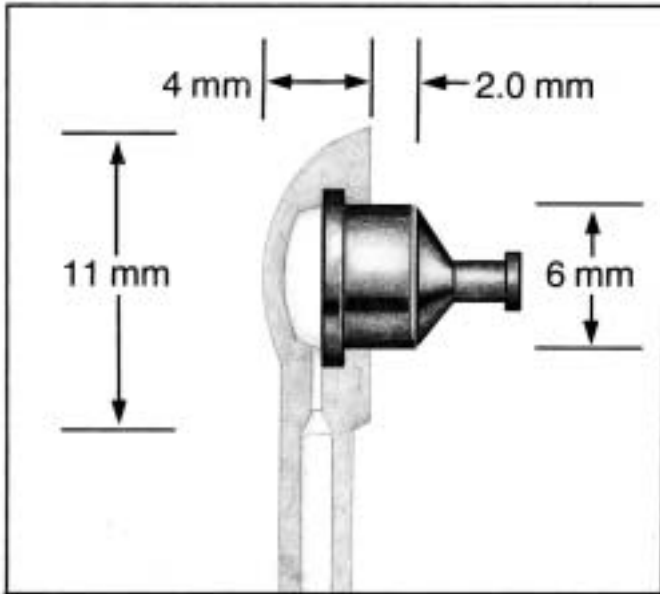


- 82-1697** HOLTER* In-Line Shunt Filter, sterile. A 3.9 micron cellulosic filter designed specifically for use with the HOLTER* Shunt System to prevent the transfer of cells larger than 3.9 microns through the system. The filter has a surface area of 68 square millimeters supported in a stainless steel mesh and totally encased in silicone. The silicone casing contains an inlet and outlet port, both with an I.D. of 1.5mm, for connection to the shunt system. The filter can be implanted just behind the mastoid air cells so it is exposed to the radiotherapy field, if radiotherapy is used.
The HOLTER* In-Line Shunt Filter is packaged sterile. Each package contains one filter and two sterile 82-1694 HOLTER* Type A connectors.



HYDROCEPHALUS SHUNT SYSTEMS

HOLTER



HOLTER* Ventriculostomy Reservoirs

The HOLTER* Reservoirs are used for both ventriculostomies and for connection to the HOLTER* Valves. Reservoirs; stainless steel or plastic base; removable, puncturable silicone rubber cap for convenience.

Each is supplied with:
 (82-1650) Ventricular Catheter, 15cm straight,
 Ventricular Catheter stylet, sterile.

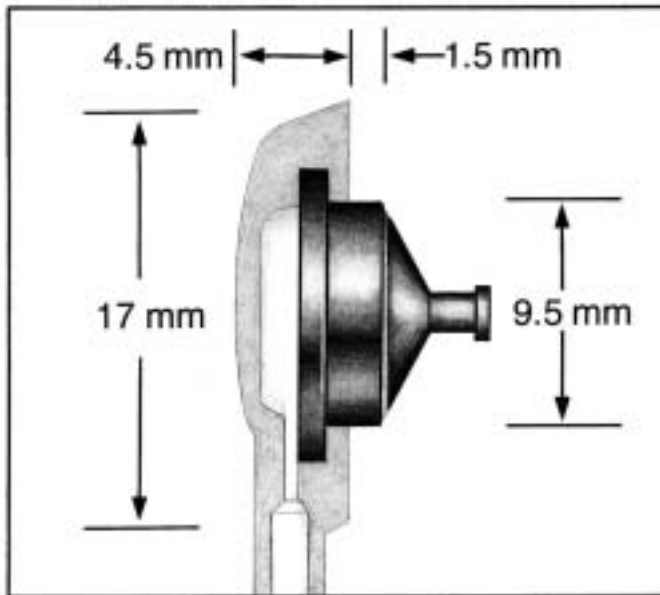


HOLTER* RICKHAM Ventriculostomy Reservoirs, standard, sterile.

- 82-1621** Stainless-steel base
- 82-1615** Plastic base

Requires a 6mm burr hole or skull recess.
 Supplied with one (82-1650) Ventricular Catheter, 15cm straight, and stylet, both sterile.

*Note: A 25 gauge "Huber" type needle or smaller should be used to puncture HOLTER reservoirs.



HOLTER* RICKHAM Ventriculostomy Reservoir, large, sterile.

- 82-1623** stainless-steel base
- 82-1616** plastic base

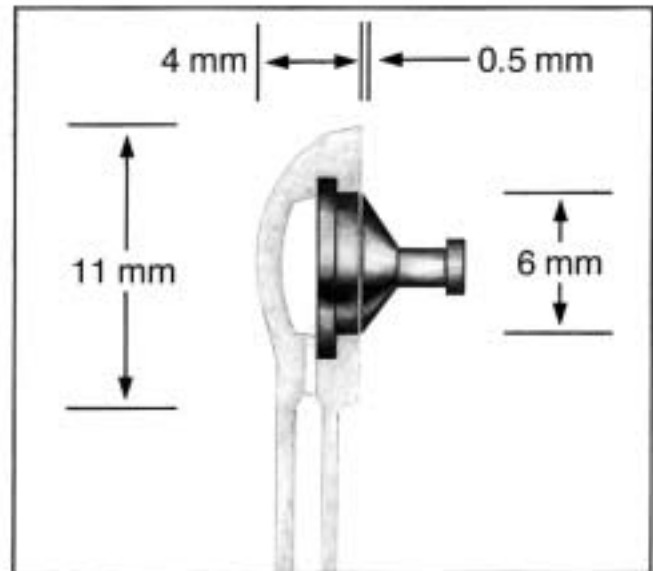
Intended for older children and adults.
 Requires a 9.5mm burr hole or drilled-skull recess.
 Supplied with one (82-1650) Ventricular Catheter, 15cm straight, and stylet, both sterile.

HYDROCEPHALUS SHUNT SYSTEMS HOLTER



82-1625
82-1617

HOLTER* SALMON-RICKHAM
Ventriculostomy Reservoir, low profile, sterile.
Stainless Steel Base
Plastic Base
Designed for pediatric use. Ideal for seating in very thin to medium thickness cranium.
Requires a 6mm burr hole or drilled-skull recess.
Supplied with one (82-1650) Ventricular Catheter, 15cm straight, and stylet, both sterile.



*Note: A 25 gauge "Huber" type needle or smaller should be used to puncture HOLTER reservoirs.

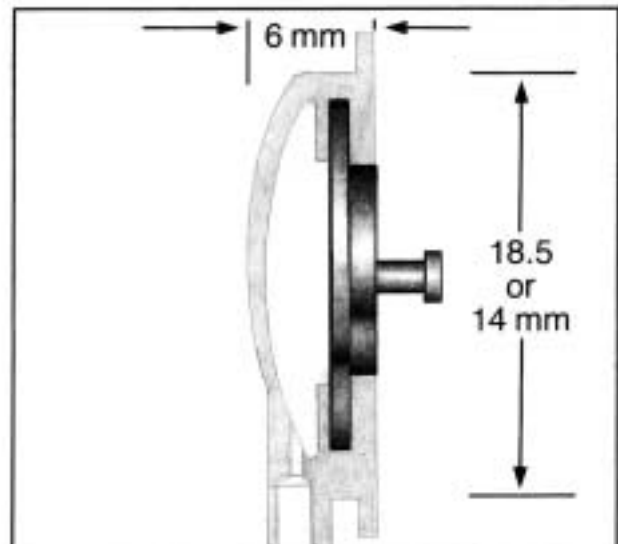
82-1618

HOLTER* SELKER Ventriculostomy Reservoir, small, sterile.
Plastic base
Requires only a 4mm drilled hole to accommodate the ventricular catheter. This style reservoir provides a larger target area (14mm cap diameter) for puncturing and a low profile recommended for pediatric use.
Supplied with one (82-1650) Ventricular Catheter, 15cm straight, and stylet, both sterile.



82-1619

HOLTER* SELKER Ventriculostomy Reservoir, large, sterile.
Plastic base
Requires only a 4mm drilled hole to accommodate the ventricular catheter. This style reservoir provides a larger target area (18.5mm cap diameter) for puncturing and a low profile recommended for pediatric use.
Supplied with one (82-1650) Ventricular Catheter, 15cm straight, and stylet, both sterile.



*Note: A 25 gauge "Huber" type needle or smaller should be used to puncture HOLTER reservoirs.

INTRACRANIAL
PRESSURE

HYDROCEPHALUS SHUNT SYSTEMS

HOLTER



LUMBAR-PERITONEAL Catheters are designed for shunting from the subarachnoid space to the peritoneal cavity. This method provides a simple means of treating communicating hydrocephalus, and is an effective alternative to standard V.A. or V.P. shunts in the treatment of pseudotumor cerebri, cranial and spinal CSF fistula (non-infected), and recurrent bulging craniotomy sites.

HOLTER* LUMBOPERITONEAL Catheters Manufactured as a one-piece silicone rubber with an I.D. of 1.2mm and an O.D. of 2.5mm. The 3cm T-portion has four sets of three proximal holes, and has 1.0mm I.D. and 1.8mm O.D. The peritoneal catheter end has three longitudinal slits (120° apart) to regulate flow and prevent reflux.

- | | |
|----------------|--|
| 82-1698 | HOLTER* LUMBOPERITONEAL Catheter, T-shaped, one-piece, sterile, with 3.5mm slit valves.
Length 65cm |
| 82-1699 | HOLTER* LUMBOPERITONEAL Catheter, T-shaped, one-piece, sterile, with 4.0mm slit valves.
Length 65cm |
-

HYDROCEPHALUS SHUNT SYSTEMS

HOLTER ACCESSORIES



- | | |
|----------------|--|
| 82-1692 | HOLTER* Distal Catheter Passer, SALMON style, stainless steel, non-sterile. Used for subcutaneous passage and placement of an atrial or peritoneal catheter. The catheter is passed through the tubular body of the instrument.
Tube I.D. 3.2mm
Tube O.D. 4.2mm
Total length 35.5cm |
|----------------|--|
-

HYDROCEPHALUS SHUNT SYSTEMS HOLTER ACCESSORIES

82-1693	HOLTER* Distal Catheter Placement Instrument, stainless steel, non-sterile. For the subcutaneous passage and placement of the Distal Peritoneal Catheter.
Rod O.D.	3.2mm
Tip	7mm
Hole Diameter	2.75mm
Total length	56cm



HYDROCEPHALUS SHUNT SYSTEMS UNI-SHUNT

UNI-SHUNT* Systems

The UNI-SHUNT System provides a one-piece, or unitized shunting approach. The distal end is a standard slit valve providing a precise pressure control. The UNI-SHUNT catheter is one continuous length of clean, x-ray detectable silicone tubing (1.3mm i.d. x 2.5mm o.d). The UNISHUNT catheter incorporates an integral reservoir made of self-sealing silicone which can be punctured with a 25 gauge or smaller Huber type needle. The simple one-piece design has no connectors, so the possibility of disconnection and subsequent complication is eliminated. The UNISHUNT system is available in a wide variety of styles, kit configurations, sizes and closing pressures.

Each UNI-SHUNT Catheter or Reservoir is clearly marked with tantalum pressure designation markers.

- One Dot = Low Pressure
 - Two Dots = Medium Pressure
 - Three Dots = High Pressure
-

HYDROCEPHALUS SHUNT SYSTEMS

UNI-SHUNT



The UNI-SHUNT* with Reservoir incorporates a double dome access port to facilitate injections and aspirations of CSF samples. It is a continuous length of barium impregnated silicone tubing with an access reservoir made of self sealing silicone which can be punctured with a 25 gauge or smaller Huber type needle.

The simplicity of one piece design means that there are no connectors, so the possibility of disconnection and subsequent complications is eliminated.

The catheter has rounded X-ray detectable tantalum ventricular and distal tips, X-ray detectable pressure markings at the distal tip, and X-ray detectable markings on the ventricular and peritoneal ends.

The UNI-SHUNT* catheter with Reservoir Kit is supplied **sterile** with the following:

Blunt Tip Needle, 17 gauge, disposable, for flushing and testing purposes.

Disposable Malleable Catheter Passer, short. Each 90cm and 102cm length kits also include one disposable Malleable Catheter Passer, long.

UNI-SHUNT* with Reservoir Anchoring Clips, two.

UNI-SHUNT* with Reservoir Introducer.

Marking Pen, sterile.

Measuring Tape, non-sterile.

Note

The 53cm and 62 cm length Reservoir Catheters have a distance of 11 cms from the ventricular tip to the reservoir, the 78cm, 90cm, and 102cm length Reservoir Catheters have a distance of 13 cms from the ventricular tip to the reservoir.

UNI-SHUNT* with Reservoir Kit

	Length	Closing Pressure (Measure in cm of Water)
82-8501	53 cm	82-85012-5 cm H ₂ O Low
82-8502	53 cm	5-9 cm H ₂ O Medium
82-8511	62 cm	2-5 cm H ₂ O Low
82-8512	62 cm	5-9 cm H ₂ O Medium
82-8521	78 cm	2-5 cm H ₂ O Low
82-8522	78 cm	5-9 cm H ₂ O Medium
82-8531	90 cm	2-5 cm H ₂ O Low
82-8532	90 cm	5-9 cm H ₂ O Medium
82-8533	90 cm	9-14 cm H ₂ O High
82-8541	102 cm	2-5 cm H ₂ O Low
82-8542	102 cm	5-9 cm H ₂ O Medium
82-8543	102 cm	9-14 cm H ₂ O High

HYDROCEPHALUS SHUNT SYSTEMS ADDITIONAL COMPONENTS-CLIPS

82-4092 Right angle Cranial Clip with Tabs, sterile, two clips per package. A one piece right angle clip, used to anchor the ventricular and distal ends of the Uni-Shunt with Elliptical Reservoir Catheter in position. Each Uni-Shunt with Elliptical Reservoir is supplied with one package of 82-4092 anchoring clips.



82-8591 UNI-SHUNT* with Reservoir Anchoring Clip, sterile, two clips per package. A one piece right angle clip, used to anchor the ventricular and distal ends of the UNI-SHUNT* with Reservoir Catheter in position. Each UNI-SHUNT* with Reservoir Catheter Kit is supplied with one 82-8591 Anchoring Clips.



HYDROCEPHALUS SHUNT SYSTEMS ADDITIONAL COMPONENTS-INTRODUCER

82-8594 UNI-SHUNT* with Reservoir Introducer, sterile, disposable. Used to place the proximal end of the UNI-SHUNT* with Reservoir Catheter into the ventricles. Each UNI-SHUNT* with Reservoir Catheter Kit is supplied with one 82-8594 Introducer.



HYDROCEPHALUS SHUNT SYSTEMS ADDITIONAL COMPONENTS-PASSERS

16-1057 CODMAN Disposable ICP Luer Lock Connector, sterile, consists of a female luer lock connector and a male luer lock cap. Designed to connect a silicone ventricular catheter (I.D. from 1.3mm to 1.5mm) to a CSF drainage or monitoring device. May be used to occlude ventricular catheter by utilizing male luer lock cap.



HYDROCEPHALUS SHUNT SYSTEMS

ADDITIONAL COMPONENTS-PASSERS



82-4095 Split Trocar, sterile, disposable. For the placement of the UNI-SHUNT* Catheter in both the ventricle and peritoneum. The unique open/close obturator prevents excessive loss of CSF in the ventricle.

Length 10cm

Each UNI-SHUNT* Catheter Kit includes one 82-4095 disposable Split Trocar.



MALLEABLE Catheter Passers, used to pass the distal catheter to the peritoneum. Each 90cm and 102cm UNI-SHUNT* Catheter Kit is also supplied with one Long Catheter Passer.

82-1515 MALLEABLE Catheter Passer, short, sterile, disposable. Packaged individually, six per case.

Length 36cm

82-1516 MALLEABLE Catheter Passer, long, sterile, disposable. Packaged individually, six per case.

Length 55cm



82-1692 HOLTER* Distal Catheter Passer, SALMON style, stainless steel, non-sterile. Used for subcutaneous passage and placement of an atrial or peritoneal catheter. The catheter is passed through the tubular body of the instrument.

Tube I.D. 3.2mm

Tube O.D. 4.2mm

Total length 35.5cm



82-1693 HOLTER* Distal Catheter Placement Instrument, stainless steel, non-sterile. For the subcutaneous passage and placement of the Distal Peritoneal Catheter.

Rod O.D. 3.2mm

Tip 7mm

Hole Diameter 2.75mm

Total length 56cm

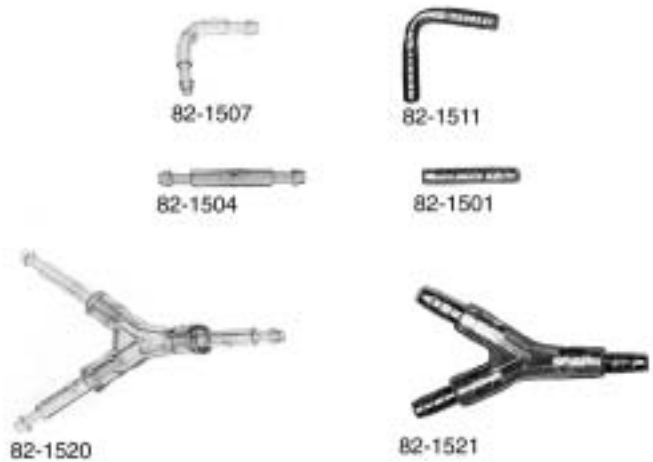
HYDROCEPHALUS SHUNT SYSTEMS ADDITIONAL COMPONENTS

- 82-1715** HOFFMAN Shunt Passer, short, stainless steel, non-sterile.
Used for the subcutaneous passage and placement of the distal peritoneal catheter. After subcutaneous tunneling, the malleable passer is connected to a suction source to provide quick positioning of the distal catheter.
Tube I.D. 3.2mm
Tube O.D. 4.2mm
Total length 45.7cm
- 82-1716** HOFFMAN Shunt Passer, long, stainless steel, non-sterile.
Tube I.D. 3.2mm
Tube O.D. 4.2mm
Total length 61.0cm



All ACCU-FLO* Connectors are 316-L stainless steel or plastic, 1.0mm I.D. x 1.9mm O.D. with beveled ends. Each is X-ray detectable and packaged sterile. The connectors are grooved to hold sutures for preventing catheter disconnection.

- ACCU-FLO* Right Angle Connectors, sterile.
- 82-1507** Plastic
- 82-1511** Metal
- ACCU-FLO* Straight Connectors, sterile.
- | | | |
|---------|--------|------|
| Plastic | Length | 17mm |
| Metal | Length | 11mm |
- 82-1504** Plastic
- 82-1501** Metal
- ACCU-FLO* Three Way Connectors, Y-shaped, sterile, with a straight metal or plastic non-spring connector in each leg.
- 82-1520** Plastic
- 82-1521** Metal



INTRACRANIAL
PRESSURE

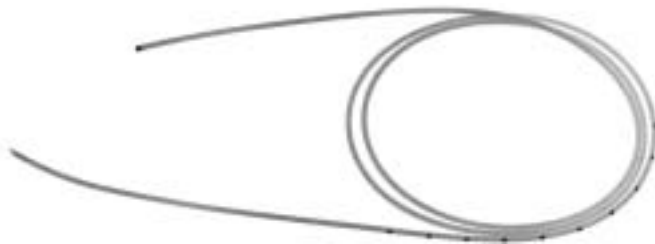
INTERCRANIAL PRESSURE ADDITIONAL COMPONENTS-LUMBAR



LUMBAR-PERITONEAL Catheters are designed for shunting from the subarachnoid space to the peritoneal cavity. This method provides a simple means of treating communicating hydrocephalus, and is an effective alternative to standard V.A. or V.P. shunts in the treatment of pseudotumor cerebri, cranial and spinal CSF fistula (non-infected), and recurrent bulging craniotomy sites.

HOLTER* LUMBOPERITONEAL Catheters Manufactured as a one-piece silicone rubber with an I.D. of 1.2mm and an O.D. of 2.5mm. The 3cm T-portion has four sets of three proximal holes, and has 1.0mm I.D. and 1.8mm O.D. The peritoneal catheter end has three longitudinal slits (120° apart) to regulate flow and prevent reflux.

- 82-1698** HOLTER* LUMBOPERITONEAL Catheter, T-shaped, one-piece, sterile, with 3.5mm slit valves.
Length 65cm
- 82-1699** HOLTER* LUMBOPERITONEAL Catheter, T-shaped, one-piece, sterile, with 4.0mm slit valves.
Length 65cm
-



LUMBAR-PERITONEAL CATHETERS, JAMES design, one-piece, sterile. Pressure is controlled through distal slit valves (5–9cm H₂O Medium Pressure), four slits 90° apart. The proximal tip is perforated, open ended and angled cut for easy insertion.

- I.D. .76mm
O.D. 1.65 mm
Length
- 82-6200** 25cm
82-6201 50cm
82-6202 80cm

Use the 45-1020 TOUHY Needle for the insertion of the JAMES LUMBAR-PERITONEAL Shunt into the spinal subarachnoid space.



- 45-1020** TOUHY Needle, 14 Gauge, non-sterile, used for the insertion of the JAMES LUMBAR-PERITONEAL Catheter.
Length 3½" (90mm)
Needle length given is exclusive of hub and stylet.
-

INTRACRANIAL PRESSURE ADDITIONAL COMPONENTS-CANNULA

ELSBERG Ventricular Cannulas, silver, graduated in centimeters, closed end, three side holes.

16-1015	Diameter 5 Fr.	Length 4"	(102mm)
16-1016	Diameter 7 Fr.	Length 4"	(102mm)
16-1017	Diameter 9 Fr.	Length 4"	(102mm)



DORSEY Ventricular Cannulas, graduated in centimeters, open ended.

16-1020	Plain		
	Diameter 11 Fr.		
	Length 3 3/4"		(95mm)



FORD HOSPITAL Ventricular Cannula, closed end with two side holes.

16-1023	Diameter 4.5 Fr.		
	Length 3 1/4"		(83mm)



SELETZ Flexible Ventricular Silicone Cannula, with stopcock and removable stylet, two hole.

16-1024	Diameter 10 Fr.	Length 3 1/2"	(89mm)
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- 5 Fr.
- 7 Fr.
- 8 Fr.
- 9 Fr.
- 10 Fr.
- 11 Fr.



SCOTT Silicone Ventricular Cannulas, two hole.

16-1050	Diameter 8 Fr.	Length 2 3/8"	(60mm)
16-1051	Diameter 8 Fr.	Length 3 1/8"	(80mm)
16-1052	Diameter 8 Fr.	Length 3 7/8"	(100mm)



INTRACRANIAL PRESSURE

INTERCRANIAL PRESSURE ADDITIONAL COMPONENTS-CANNULA



SCOTT Ventricular Cannulas, 8 Fr., disposable, sterile, five per box. One cap and one stylet provided in each package.

16-1054	Length	2 $\frac{3}{8}$ "	(60mm)
16-1055	Length	3 $\frac{1}{8}$ "	(80mm)
16-1056	Length	3 $\frac{7}{8}$ "	(100mm)

INTERCRANIAL PRESSURE ADDITIONAL COMPONENTS-NEEDLES



CONE Ventricular Needles, 2 hole, Luer lock hub.

	Length	3 $\frac{1}{2}$ "	(89mm)
45-1010	12G.		
45-1011	13G.		
45-1012	14G.		
45-1013	15G.		
45-1014	16G.		
45-1015	17G.		
45-1016	18G.		
45-1017	20G.		



CONE Biopsy Needles, sharp open end with blunt obturator, Luer lock hub.

	Length	3 $\frac{1}{2}$ "	(89mm)
45-1022	13G.		
45-1024	15G.		



45-1050 SCOVILLE Ventricular Needle, graduated in centimeters, two hole, 14G.

	Length	3 $\frac{3}{8}$ "	(85mm)
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INTRACRANIAL PRESSURE ADDITIONAL COMPONENTS-NEEDLES



45-1052 DANDY Ventricular Needle, graduated in centimeters, 1 hole, 11G.
Length 3 $\frac{5}{8}$ " (92mm)

45-1055 POPPEN Ventricular Needle, two hole, Luer lock hub, 12G.
Length 3 $\frac{5}{8}$ " (86mm)



45-1060 MIXTER Ventricular Needles, two hole, silver, 14G.
45-1061 15G.
45-1062 16G.
45-1063 18G.
Length 3 $\frac{5}{8}$ " (92mm)



45-1065 CAMPBELL Ventricular Needle, graduated in centimeters, 3 hole, Luer lock hub, 12G.
Length 4" (102mm)



45-1068 PACE Ventricular Needle, graduated in centimeters, one hole, Luer lock hub, 12G.
Length 3 $\frac{5}{8}$ " (92mm)



45-1085 D'ERRICO Ventricular Needle, graduated in centimeters, one hole, Luer lock hub, 12G.
Length 3 $\frac{3}{4}$ " (95mm)

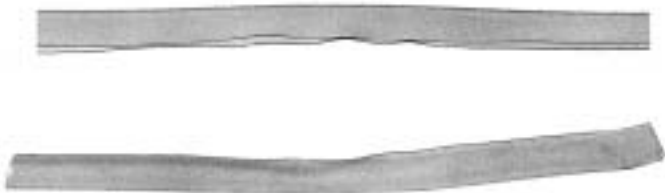


INTERCRANIAL PRESSURE ADDITIONAL COMPONENTS-NEEDLES



45-1092 FRAZIER Ventricular Needle, graduated in centimeters, three hole, 10G.
Length 3⁷/₈" (98mm)

INTERCRANIAL PRESSURE ADDITIONAL COMPONENTS-U-CHANNEL



82-6001 U-CHANNEL Stripping, sterile. A preformed U-shaped silicone rubber used in the treatment of cranial stenosis. Packaged two strippings per box.
Thickness .5mm
Width 10mm
Length 150mm

PROXIMAL VALVE SYSTEMS

VENTRICULAR CATHETERS

HOLTER™ VENTRICULAR CATHETER

82-1660 15cm, Straight Barium

HOLTER VENTRICULAR CATHETER, Right Angle Barium

82-1652 3cm **82-1660** 7cm

82-1654 4cm **82-1662** 8cm

82-1656 5cm **82-1664** 9cm

82-1658 6cm **82-1665** 10cm

ACCU-FLO™ VENTRICULAR CATHETER

82-1201 15cm, Barium

82-1212 15cm, Barium Flanged

82-1203 30cm, Clear

82-1221 15cm, Dotted

ACCU-FLO VENTRICULAR CATHETER, Right Angle Barium

82-1231 5cm

82-1232 7cm

82-1233 9cm

82-1234 11cm

ACCU-FLO VENTRICULAR CATHETER

82-2930 15cm, Straight Barium

PROXIMAL VALVES

HOLTER STRAIGHT VALVE

82-1600 High Pressure

82-1601 Medium Pressure

83-1602 Low Pressure

82-1603 Extra-Low Pressure

HOLTER ELLIPTICAL VALVE

82-1604 High Pressure

82-1605 Medium Pressure

83-1606 Low Pressure

82-1607 Extra-Low Pressure

HOLTER MINI-ELLIPTICAL VALVE

82-1608 High Pressure

82-1609 Medium Pressure

83-1610 Low Pressure

82-1611 Extra-Low Pressure

FLUSHING RESERVOIRS

HOLTER RICKHAM VENTRICULOSTOMY RESERVOIR (includes Ventricular Catheter, 15cm)

82-1621 Standard, Stainless Steel Base

82-1615 Standard, Plastic Base

83-1623 Large, Stainless Steel Base

82-1616 Large, Plastic Base

HOLTER SELKER VENTRICULOSTOMY RESERVOIR (includes Ventricular Catheter, 15cm)

82-1618 Small, Plastic Base

82-1619 Large, Plastic Base

HOLTER SALMON RICKHAM

VENTRICULOSTOMY RESERVOIR

(includes Ventricular Catheter, 15cm), Low Profile

82-1625 Stainless Steel Base

82-1617 Plastic Base

HOLTER VENTRICULAR WITH RESERVOIR

MOLDED ONE PIECE, Right Angle Barium

82-1630 3cm **82-1638** 7cm

82-1632 4cm **82-1640** 8cm

82-1634 5cm **82-1642** 9cm

82-1636 6cm **82-1644** 10cm

PERITONEAL & ATRIAL CATHETERS

HOLTER DISTAL ATRIAL CATHETER, Barium

82-1670 Type A, 45cm

82-1672 Type B, 38cm, Sm. 15cm, Lg. 23cm

83-1674 Type C, 45cm, Sm. 3cm, Lg. 39cm

82-1676 Type E, 48cm, Sm. 24cm, Lg. 24cm

82-1678 Type H, 42cm, Sm. 39cm, Lg. 3cm

HOLTER DISTAL PERITONEAL CATHETER, BARIUM

82-1682 90cm, Open End, Type A

82-1684 90cm, Simon-Style Closed End, Distal Slit

ACCU-FLO DISTAL OPEN END

82-1380 ACCU-FLO Barium, 91cm

ICP REFERENCE CHART

DISTAL VALVE SYSTEMS

VENTRICULAR CATHETERS

HOLTER™ VENTRICULAR CATHETER

82-1650 15cm, Straight Barium

HOLTER VENTRICULAR CATHETER, Right Angle Barium

82-1652 3cm **82-1660** 7cm

82-1654 4cm **82-1662** 8cm

82-1656 5cm **82-1664** 9cm

82-1658 6cm **82-1665** 10cm

ACCU-FLO™ VENTRICULAR CATHETER

82-1201 15cm, Barium

82-1212 15cm, Barium Flanged

82-1203 30cm, Clear

82-1221 15cm, Dotted

ACCU-FLO VENTRICULAR CATHETER, Right Angle Barium

82-1231 5cm **82-1233** 9cm

82-1232 7cm **82-1234** 11cm

ACCU-FLO VENTRICULAR CATHETER

82-2830 15cm, Straight Barium

RESERVOIRS

ACCU-FLO BURR HOLE RESERVOIR

82-1401 4mm

ACCU-FLO SINGLE DOME, FLAT BOTTOM

82-1411

ACCU-FLO DOUBLE DOME, FLAT BOTTOM

82-1421

PERITONEAL & ATRIAL CATHETERS

ACCU-FLO DISTAL SLIT VALVE CATHETER, BARIUM

82-1301 91cm, Low Pressure

82-1302 91cm, Medium Pressure

83-1303 91cm, High Pressure

ACCU-FLO DISTAL SLIT VALVE CATHETER, DOTTED

82-1321 91cm, Low Pressure

82-1322 91cm, Medium Pressure

ONE PIECE DISTAL VALVE SYSTEMS

UNI-SHUNT SYSTEM WITH RESERVOIR

82-8501 53cm, Low Pressure

82-8502 53cm, Medium Pressure

83-8511 62cm, Low Pressure

82-8512 62cm, Medium Pressure

82-8521 78cm, Low Pressure

82-8522 78cm, Medium Pressure

UNI-SHUNT WITH ENLARGED DOME RESERVOIR (Adult Size)

82-8531 90cm, Low Pressure

82-8532 90cm, Medium Pressure

82-8533 90cm, High Pressure

82-8541 102cm, Low Pressure

82-8542 102cm, Medium Pressure

83-8543 102cm Pressure

MISCELLANEOUS PRODUCTS

LUMBAR-PERITONEAL SHUNTS

HOLTER LUMBO-PERITONEAL SHUNT

82-1698 65cm, 3.5mm slit

82-1699 65cm, 4.0mm slit

JAMES LUMBAR PERITONEAL SHUNT

82-6200 25cm, Medium Pressure

82-6201 50cm, Medium Pressure

82-6202 80cm, Medium Pressure

ACCESSORY PRODUCTS

HOLTER CONNECTOR

82-1694 Type A, Straight, Stainless Steel

82-1695 Type B, Straight, Step Down, Stainless Steel

83-1696 Type "T" Connector, Plastic

ACCU-FLO CONNECTOR

Plastic Metal

82-1504 **82-1501** Straight Non-Spring to Non-Spring

82-1507 **82-1511** Right Angle Non-Spring to Non-Spring

82-1520 **82-1521** Three-Way, Non-Spring

VENTRICULAR ACCESS DEVICES

ACCU-FLO C.S.F. RESERVOIR

(Included Ventricular Catheter, 15cm)

82-6100 14cm

82-6101 24mm

HOLTER RICKHAM VENTRICULOSTOMY RESERVOIR

82-1621 Standard, Stainless Steel Base

82-1615 Standard, Plastic Base

83-1623 Large, Stainless Steel Base

82-1616 Large, Plastic Base

HOLTER SELKER VENTRICULOSTOMY RESERVOIR
(Included Ventricular Catheter, 15cm)

82-1618 Small, Plastic Base

82-1619 Large, Plastic Base

HOLTER SALMON RICKHAM VENTRICULOSTOMY
RESERVOIR, MOLDED ONE PIECE

(includes Ventricular Catheter, 15cm) Low Profile

82-1625 Stainless Steel Base

82-1617 Plastic Base

HOLTER VENTRICULAR CATHETER WITH RESERVOIR
Right Angle Barium

82-1630 3cm **82-1638** 7cm

82-1632 4cm **82-1640** 8cm

82-1634 5cm **82-1642** 9cm

82-1636 6cm **82-1644** 10cm

ADDITIONAL SHUNT PRODUCTS

DISTAL CATHETER PLACEMENT INSTRUMENTS

82-1693

HOFFMAN STAINLESS STEEL SHUNT PASSER

82-1715 45,7cm, Short

82-1716 61.0cm, Long

MALLEABLE CATHETER PASSER

82-1515 36cm, Short

82-1516 55cm, Long

INTRODUCER AND CONE SET

82-1690

DISTAL CATHETER PASSER, SALMON STYLE

82-1692

SPLIT TROCAR, STERILE, DISPOSABLE, 10cm

82-4095

UNI-SHUNT WITH RESERVOIR INTRODUCER

STERILE, DISPOSABLE

82-8594

ACCU-FLO BURR HOLE BUTTONS, STERILE, 10/Package

82-6010

ACCU-FLO BURR HOLE COVERS, STERILE, 10/Package

82-6025 Diameter 10mm, Depth 6mm

82-6026 Diameter 16mm, Depth 10mm

U-CHANNEL STRIPPING

82-6001

DISPOSABLE SCOTT CANNULAS

16-1054 6cm

16-1055 8cm

16-1056 10cm

HOLTER IN-LINE SHUNT FILTER

82-1697

UNI-SHUNT ABDOMINAL SLIP CLIP

82-4090

UNI-SHUNT RIGHT ANGLE ANCHORING CLIP

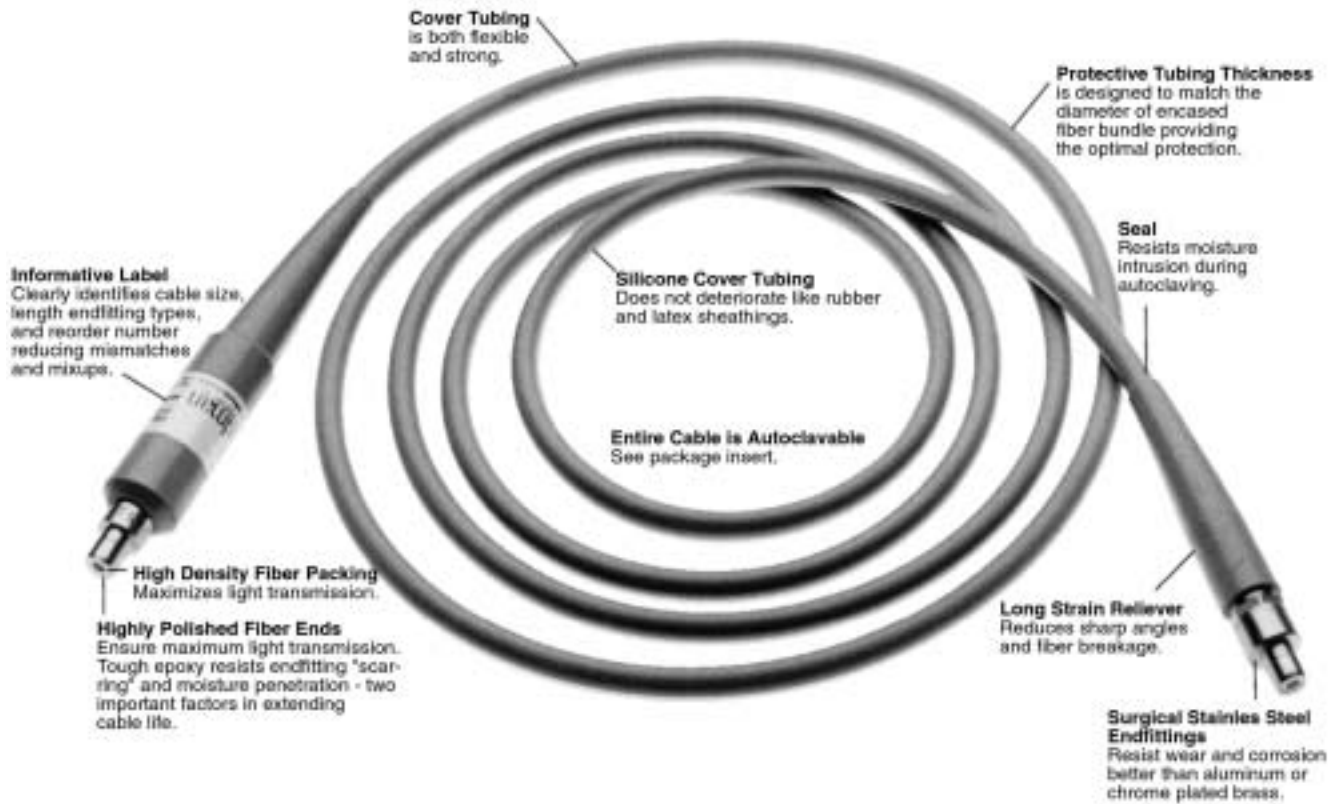
82-4092

TOUHY NEEDLE FOR INSERTION OF

JAMES LUMBAR-PERITONEAL SHUNT

45-1020

HEADLIGHTS & LIGHT SOURCES CABLES



FIBEROPTIC CABLES
For a complete listing of Codman's Fiberoptic
Cables, see the Fiberoptic Cable Order Index.

HEADLIGHTS & LIGHT SOURCES CABLES

CABLE LIGHTSOURCE ENDFITTING	CABLE INSTRUMENT ENDFITTING	CABLE INSTRUMENT ENDFITTING TYPE	BUNDLE SIZE	CABLE LENGTH	ORDER NO.		
CODMAN/ACMI	CODMAN/ACMI	Male	3.5mm	7.5'-(229cm)	24-3075		
			5.0mm	7.5'-(229cm)	24-3076		
			5.0mm	7.5'-(229cm)	24-3077		
			5.0mm	10.0'-(307cm)	24-3074		
			6.5mm	6.0'-(184cm)	24-3078		
		Female	6.5mm	7.5'-(229cm)	24-3079		
			3.5mm	7.5'-(229cm)	24-3080		
			5.0mm	7.5'-(229cm)	24-3081		
			PILLING	Female	3.5mm	7.5'-(229cm)	24-3085
			STORZ	Male	3.5mm	7.5'-(229cm)	24-3086
5.0mm	7.5'-(229cm)	24-3087					
WOLF	Female	3.5mm	7.5'-(229cm)	24-3088			
		5.0mm	7.5'-(229cm)	24-3090			
DESIGNS FOR VISION	CODMAN/ACMI DESIGNS FOR VISION	Male	6.5mm	7.5'-(229cm)	24-3091		
	FOR VISION	Male	6.5mm	7.5'-(229cm)	24-3092		
PILLING	PILLING	Female	3.5mm	7.5'-(229cm)	24-3094		
	CODMAN/ACMI	Male	5.0mm	7.5'-(229cm)	24-3095		
STORZ	STORZ	Male	3.5mm	7.5'-(229cm)	24-3096		
			5.0mm	7.5'-(229cm)	24-3097		
	CODMAN/ACMI	Male	5.0mm	7.5'-(229cm)	24-3098		
STRYKER	STRYKER	Male	3.5mm	7.5'-(229cm)	24-3099		
WOLF	WOLF	Female	3.5mm	7.5'-(229cm)	24-3101		
			5.0mm	7.5'-(229cm)	24-3102		
	CODMAN/ACMI	Male	5.0mm	7.5'-(229cm)	24-3103		
DURABRITE LITEWEIGHT CABLES:							
CODMAN/ACMI	CODMAN/ACMI	Female	3.0mm	7.5'-(229cm)	24-3109		
	STROZ	Male	3.0mm	7.5'-(229cm)	24-3111		

HEADLIGHTS & LIGHT SOURCES CABLES

ADDITIONAL DESCRIPTION/SUBSTITUTION GUIDE

Rotating Distal Endfittings; Use for Small Instruments, Medium Cystoscopes

Best for All 5mm Retractors; Laparoscopes; Large Cystoscopes

"Low Profile" strain Reliever for CODMAN/Codman Headlights-Reduces Cable "Loop"

Low Profile Strain reliever Cable for Headlights; Longer Version of 24-3077

Best for Large 6mm + Retractors & Codman MicroSystem Microscope

Longer Version of 24-3078

Rotating Distal Endfitting; Best for Small Instruments; replaces ACMI FO-401-3A

Best for Large Instruments; replaces ACMI FO-401-5A

"Low Profile" Strain Reliever Reduces Cable "Loop"

Best for Small Cystoscopes; Replaces Storz 495P; Rotating Distal Endfitting

Best for Large Cystoscopes; Replaces Storz 495P; Rotating Distal Endfitting

Best for Medium Cystoscope; replaces Wolf 4057-02; Rotating Distal Endfitting with Clip

Best for 10mm Laparoscope; replaces Wolf 4055-02; Clip on Distal Endfitting

Use with Designs for Vision Lightsource and ACMI/CODMAN Instruments/Headlights

Best for Designs for Vision Headlight; "Low Profile" Distal Endfitting Reduces Cable "Loop"

Best for Laryngoscopes, Esophagoscopes, Small Instruments

Replaces Pilling 521160-521161

Use with Pilling Lightsource and ACMI/CODMAN Instruments/Headlights

Best for Small Cystoscope; Replaces Storz 495 NL; Rotating Distal Endfitting

Best for Large Cystoscope; Replaces Storz 495 NL; Rotating Distal Endfitting

Use with Storz Lightsource and ACMI/CODMAN Instruments/Headlights; Rotating Endfitting 4/81

Best for Retractors; Replaces Stryker 220-25

Best for 5mm Laparoscope; Replaces Wolf SA 4056-01; Rotating Endfitting with Clip

Best for 10mm Laparoscope; Replaces Wolf SA 4055-01; Clip On Distal Endfitting

Use with Wolf Lightsource and ACMI/CODMAN Instruments/Headlights

Replaces ACMI #FO-401-3A, Ideal for ACMI Cystoscopes; Use with Small BRITETRAC™ Instruments

3mm Cable for use with ACMI Lightsource

HEADLIGHTS & LIGHT SOURCES CABLES

ENDFITTING AND BUNDLE INDEX

Match your fiberoptic cable endfittings with the endfittings pictured below.

SELECTION OF FIBEROPTIC CABLES FOR ENDOSCOPES

As a guideline, the following diameters are most frequently used with rigid endoscopes:

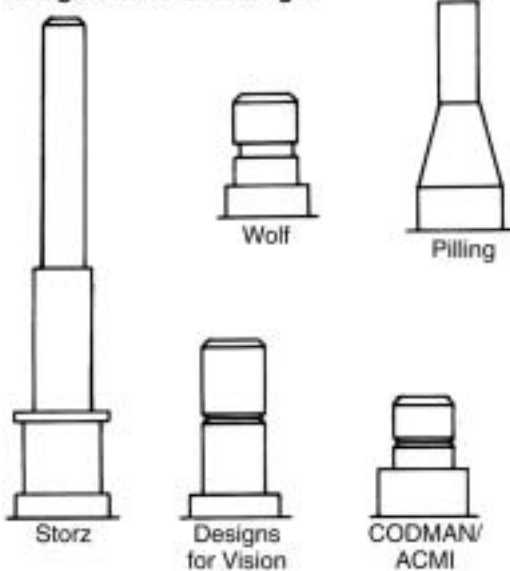
Cable	Endoscope
3.5 mm	Cystoscope Arthroscope Laryngoscopes
5.0 mm	Laparoscope (5mm, 7mm, 10mm)

All telescopes are made with a standard ACMI light guide post (male endfitting) to which each manufacturer then adds their own adapter. When this adapter is removed, the Codman/ACMI female cable endfitting will now fit most endoscopes.

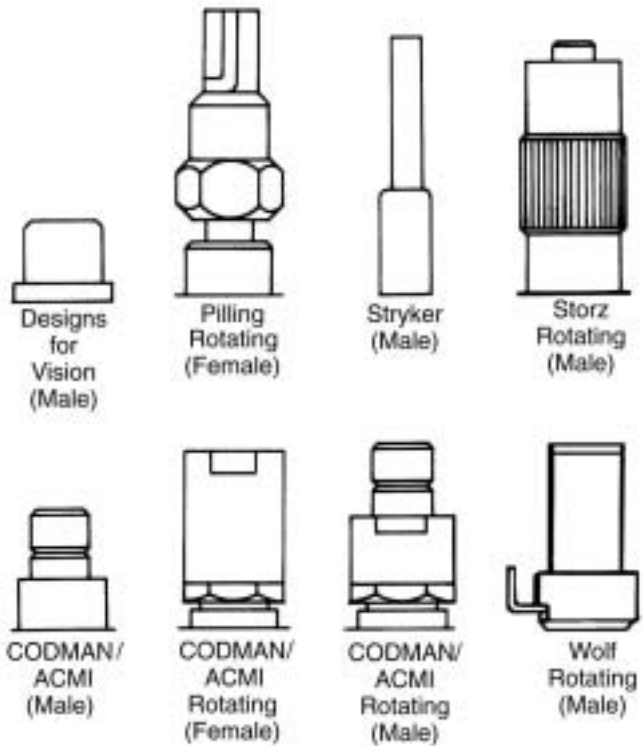
To examine your fiberoptic cables:

- Hold one end of the fiberoptic cable toward a low power light such as an overhead light.
- With a magnifying glass focus on the opposite end.
- Compare the number of broken fibers in the cable with the examples above.
- Fiber breakage of greater than 20% warrants replacement.

A. Lightsource Endfittings*



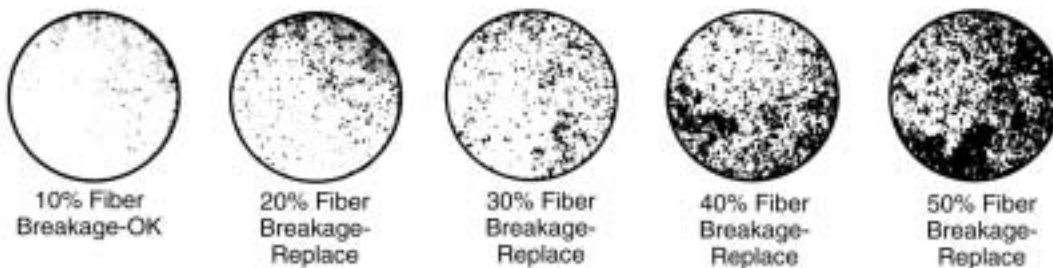
B. Instrument Endfittings*



Bundle Diameters*



*1 to 1 scale



HEADLIGHTS & LIGHT SOURCES

HEADLIGHTS

24-2999 FIBEROPTIC Lightweight Coaxial Rotary Headlight, with variable spot.
Spot range 20-90mm
Focal distance 18" (460mm)



HEADLIGHTS & LIGHT SOURCES

HEADLIGHT ACCESSORIES

24-3006 Headlight Accessories Kit, two joysticks, two garment clips, and ten twist locks.

HEADLIGHTS & LIGHT SOURCES

HEADLIGHT FIBEROPTICS

24-3035 MC-3 Lightsource
The MC-3 allows for simultaneous use of two lamps, with an additional built-in spare. A heavy-duty circuit breaker provides maximum safety. Three-step intensity switches on each channel permit selection of the optimum illumination level.
(120 Vac-50/60 HZ)



HEADLIGHTS & LIGHT SOURCES

HEADLIGHT FIBEROPTICS

- 24-3032** TWIN-BEAM Lightsource
The TWIN-BEAM Lightsource is our standard light source. The twin-Beam contains two 150 watt, DNF lamps, one primary lamp, the other to serve as a built-in spare lamp. This allows rapid change to the spare in the event the primary lamp burns out.
(120 Vac-50/60 HZ)
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HEADLIGHTS & LIGHT SOURCES

INSTRUMENTS



- BRITETRAC™ Deavers.**
- | | | | |
|----------------|-------------|-----|---------|
| 24-3166 | Small | | |
| | Blade width | 1" | (25mm) |
| | Blade depth | 10" | (254mm) |
| | Length | 13" | (330mm) |
| 24-3167 | Medium | | |
| | Blade width | 1½" | (39mm) |
| | Blade depth | 10" | (254mm) |
| | Length | 13" | (330mm) |
-

HEADLIGHTS & LIGHT SOURCES INSTRUMENTS

	RIGHT ANGLE BRITETRAC™ Retractors.	
24-3143	Blade width	1" (25mm)
	Length	6" (152mm)
	Suggested clinical application; Mammoplasty, Rhytidectomy, Bankhart Procedure	
24-3146	Blade width	1½" (38mm)
	Length	6" (152mm)
	Suggested clinical application; Mammoplasty, Hip Procedures	
24-3148	Blade width	1½" (38mm)
	Length	10" (254mm)
	Suggested clinical application; Abdominal Aortic Reconstruction, Diaphragmatic Hernia Repair (Belsey or Hill Procedure), Selective Vagotomy	
24-3149	Serrated Blade	
	Blade width	1" (25mm)
	Length	¾" (82mm)
	Suggested clinical application; Rhytidectomy, Laminectomy	
24-3150	Serrated Blade	
	Blade width	1½" (38mm)
	Length	¾" (82mm)
	Suggested clinical application; Rhytidectomy, Laminectomy	



24-3149

HEADLIGHTS & LIGHT SOURCES INSTRUMENTS



24-3169 TAYLOR BRITETRAC™ Spinal Retractor, with 5mm fiberoptic bundle.
Blade length 3" (75mm)



24-3152 FRAZIER BRITETRAC™ Suction Tube, with 3mm fiberoptic bundle.
Length 4½" (114mm)
9 Fr.



24-3171 FEMALE Rotating Connector, converts permanent male endfitting to freely rotating female. Allows for complete rotation of the instrument without cable interference.

HEADLIGHTS & LIGHT SOURCES

LIGHTSOURCE ACCESSORIES

	LAMPS
24-3054	DNF Bulb, 150 watt for TWIN or MC-3 Lightsource.
24-3055	Gemini Mercury-ARC 300 Watt for BRITE-LITE™ II Lightsource.

LIGHTSOURCE Electrical Specifications

ELECTRICAL,
120 VAC 50/60 HZ OR 230VAC 50/60HZ –
Max. 310 watts
BULBS,
Quartz-Halogen DNF – 150 watt (Single, Twin
or MC-3) – Mercury-Arc – 300 watt (Brite-Lite II)
INTENSITY SWITCHES
Four Position – Off/Low/Medium/High – (Single,
Twin or MC-3) – Rheostat – (Brite-Lite II)
RECEPTACLES,
ACMI/AFI Female of Stainless Steel
ON/OFF SWITCH,
Rocker Type – Double Pole
FUSES,
2 AMP, Slow-Blow (Single or Twin Beam)
CIRCUIT BREAKER,
Double Pole (MC-3 or Brite-Lite II)
CORD,
18 Gauge, 15½' (4.7m)
PLUG,
Hubbell Hospital Grade (U.S.)
ACMI RECEPTACLES

HEADLIGHTS & LIGHT SOURCES

LIGHTSOURCE ACCESSORIES



24-3043 FLOORSTAND, with five conductive casters.
Height (Floor to Lightsource) 42" (1.06m)
