SURGICAL INSTRUMENT

CATALOG






Codman
a Johnson & Johnson company

Codman SURGICAL PRODUCTS CATALOG

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Codman
a Johnson & Johnson company

TERMS OF SALE

A. ORDERING INFORMATION

Purchase orders may be addressed to:

Johnson & Johnson Health Care Systems, Inc.
425 Hoes Lane, P.O. Box 6800
Piscataway, NJ 08855-6800

Attn: Customer Service

or telephoned to Johnson & Johnson Health Care Systems, Inc. Service Department toll free number 1-800-255-2500. Orders may also be placed with your local Codman sales representative.

To insure accuracy in ordering, please include the following information when placing your order:

1. Catalog Number
2. Quantity
3. Product Description
4. Your Customer Number*
5. Complete Billing and Shipping Addresses
6. Special Instructions (i.e.: etching, method of shipment)

*Your customer Number can be provided to you by Johnson & Johnson Health Care Systems, Inc. Customer Service Department.
All orders are subject to acceptance by Codman & Shurtleff, Inc./Johnson & Johnson Health Care Systems, Inc.

Requests for quotes may be addressed to:

Codman & Shurtleff, Inc.
325 Paramount Dr.
Raynham, MA 02767
Attn: Customer Service
FAX: 508-828-3070
Phone: 800-225-0460
email: codmanbids&quotes@dpyus.jnj.com

Purchase orders that result from a quote should be sent to Codman & Shurtleff, Inc. at the same address or fax.

B. REPAIR AND RESTORE PROGRAMS

1. Repair Program

Codman provides a quality repair service for instruments from all manufacturers. Every effort is made by our skilled craftspersons to see that damaged instruments are repaired to optimal working condition. Repair instruments deemed unacceptable may be returned. Your satisfaction is guaranteed. For Repairs call the Repair Department at 1-800-343-5969.

2. Restore Program

Codman's Restore Program provides hospitals with an opportunity to refurbish large quantities of instruments in 24 to 48 hours. Restore is a preventive maintenance program and reduces the chances of instrument breakage when performed on a routine basis.

3. Warranty

Repair and Restore products are warranted to be free from defects in workmanship and material with respect to the Repair and Restore only, and not with respect to the original instrument.

C. SPECIAL ORDERS

Products that have been discontinued by Codman, may be available through our Repair Department.

Codman's Special Devices Department provides hospitals and surgeons with surgical instrumentation customized to individual specifications.

Order forms for Special Devices can be obtained from your sales representative or by directly contacting the Special Order Department at 1-800-843-0039.

For pricing, delivery, and more information regarding special order products, please call the Special Order Department at 1-800-843-0039.

D. PRICES

Prices are as listed in Codman's current price list, and are subject to change without notice.

Prices in the Price List are for One Unit, unless otherwise noted. Where prices are for more than one unit, the minimum shipping unit must be ordered.

E. PURCHASE AGREEMENT

Hospitals may be interested in reviewing the features of our ANNUAL PURCHASE AGREEMENT. For further details, contact your Codman sales representative.

Written price quotations are available from the Codman Customer Service Department or your local sales representative.

F. RETURN GOODS POLICY

It is Codman's intention to provide our customers with a prompt and effective Return Goods Program.

1. Merchandise returned to Codman* in compliance with the Return Goods Policy for credit will be processed within a 30 day period of time.

*Goods should be returned to:

Codman & Shurtleff, Inc.
50 Scotland Blvd.
Bridgewater, MA 02324
Attn: Credit Return Dept.

Codman

a) Merchandise returned within ninety (90) days from invoice date will be credited as follows:
   1) Full Credit for all merchandise returned in resalable condition. Sterile products must be returned in unopened shipping containers.
   2) A nominal fee per instrument may be charged for removing etching from instruments or repackaging.

2. Non-returnable Merchandise:
   a) Discontinued products. (Products no longer carried in the current Codman Price List. For further information, please check with Customer Service.)
   b) Nonstockable items. (Items which have been used.)
   c) Engraved instruments.
   d) Custom made instruments.
   e) Items held beyond ninety (90) days from invoice date.
   f) Partial kits.
   g) Color-coded instruments.

All above categories of non-returnable merchandise will be returned directly to the customer, F.O.B. Destination with a letter of explanation.

G. INSTRUMENT CARE

Codman provides an In-Service Program on "The Care and Handling of Surgical Instruments." This service is conducted by your local Codman Sales Representative. Codman also provides prepared brochures* on "The Care and Handling of Surgical Instruments," and its own Instrument Repair and Restore Programs. All of these services are designed by Codman to protect your valuable investment in surgical instruments.

*This brochure and others are available through the Literature Department.

H. WARRANTY

The products shown in this catalog are warranted to be free from defects in workmanship or materials.

Specific warranty periods and other warranty terms vary with the over 3,500 products in this catalog and specific warranty information may be included in package inserts with specific products or in operator's manuals for specific products.

All tungsten-carbide inserts on CLASSIC PLUS Needle Holders & Forceps are guaranteed for the first 5 years of normal use.

All STELLITE inserts on CLASSIC PLUS scissors are guaranteed for the first 10 years of normal use. Electrical and pneumatic equipment and aneurysm clips are sold with product inserts and/or owner's manuals and additional warranty information is contained therein.

For disposable and silicone products, in addition to the warranty printed on this page, the products are warranted to be in a sterile condition if the package in which the product is contained is intact in its original sealed condition.

For specific warranty information contact your local Codman sales representative by calling 1-800-255-2500.

Remedy

Any product which proves defective in workmanship or materials will be repaired or replaced at our discretion free of charge.

Warranty Returns should be addressed to:

Codman & Shurtleff, Inc.
325 Paramount Drive
Raynham, MA 02767
Attn: Customer Quality Satisfaction

Limitations

Alteration, repair or modification of any product which is performed by persons not authorized by Codman, Inc. will result in immediate loss of warranty.

Exclusion of Other Warranties and Remedies

EXCEPT FOR THE EXPRESS WARRANTY ABOVE-STATED, CODMAN & SHURTLEFF, INC. DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS. THE STATED WARRANTY AND REMEDY PROVIDED ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES AND REMEDIES PROVIDED BY LAW.

Limitation of Liability for Damages

Codman & Shurtleff, Inc. shall not in any case, be libel for direct, indirect, special, incidental or consequential damages arising from breach of warranty, breach of contract, negligence, or any other legal theory. Such damages include but are not limited to, loss of profits or revenues, loss of use of the product or any associated equipment, cost of capital, cost of any substitute product, facilities or services, down-time costs, or claims of customers for such damages.

I. MATERIALS AND DESCRIPTIONS

Instruments in this catalog are stainless steel, unless otherwise indicated. Instrument photographs shown in the catalog may not precisely represent the instruments.

Every effort has been made to depict and describe the products accurately; however, we reserve the right to

alter our patterns and make modifications to certain products from time to time, and without notice.

Measurements noted may vary slightly.

J. REPRESENTATION

For the name and address of your Codman Sales Representative, please contact our Johnson & Johnson Health Care Systems Customer Service Department 1-800-255-2500 or Codman Customer Service at 1-800-225-0460.

K. CODMAN U.S. TRADEMARKS

The following trademarks are used in identifying Codman products:

AGILECATH™
ACCU-FLO®
AHT®
BACTISEAL®
BOOKWALTER®
BOOKWALTER® ROTILT®
CLASSIC®
CLASSIC PLUS®
CMC®
COACT®
CODMAN®
CODMAN® MICROSENSOR®
COTTONOID®
CRANIOSORB®
DURAFORM™
EDS™
E-SERIES®
EXACT FLO®
FTX™
HOLTER®
HYDROSENSE™
ICP EXPRESS®
ISOCOOL®
LIFE NPH™
MAGNAFREE®
ME2®
MICROCARE®
MICROSECT®
MICROVASC®
NEUROGUIDE®
NEURONEWS®
OPTI-LENGTH™
PRESERVE®
QUICKLINE®
RAPIDCLEAN®
RICKHAM®
SECTO®
SLIM-LOC®
SIPHONGUARD®
SOF'WIRE®
SYNERGY®
UNI-SHUNT®
VERTEBROPLASTIC®
VPV®
MEDSTREAM™

L. OTHER TRADEMARKS

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BRITETRAC™ is a trademark of Applied Fiberoptics, Inc.
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CRANIOPLASTIC® is a registered trademark of DePuy International Limited Corporation
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ELGILOY™ is a trademark of Elgiloy Company
ETHISORB® is a registered trademark of Johnson & Johnson
FLEXBAR™ is a trademark of Flexbar Corp.
THE GHAJAR GUIDE® is a registered trademark of Neurodynamics, Inc.
GREENBERG™ is a trademark of I.M. Greenberg, M.D.
HAKIM® is a registered trademark of Medos S.A. (for hydrocephalus)
HARDY™ is a trademark of Jules Hardy, M.D.
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KEVLAR® is a registered trademark of E.I. du Pont de Nemours and Company
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ZIP® is a registered trademark of Bioplate, Inc.
SPETZLER® is a registered trademark of Robert Spetzler, M.D.
WISHBOOK™ is a trademark of Minnesota Scientific, Inc.

CODMAN INTERNATIONAL DIRECTORY

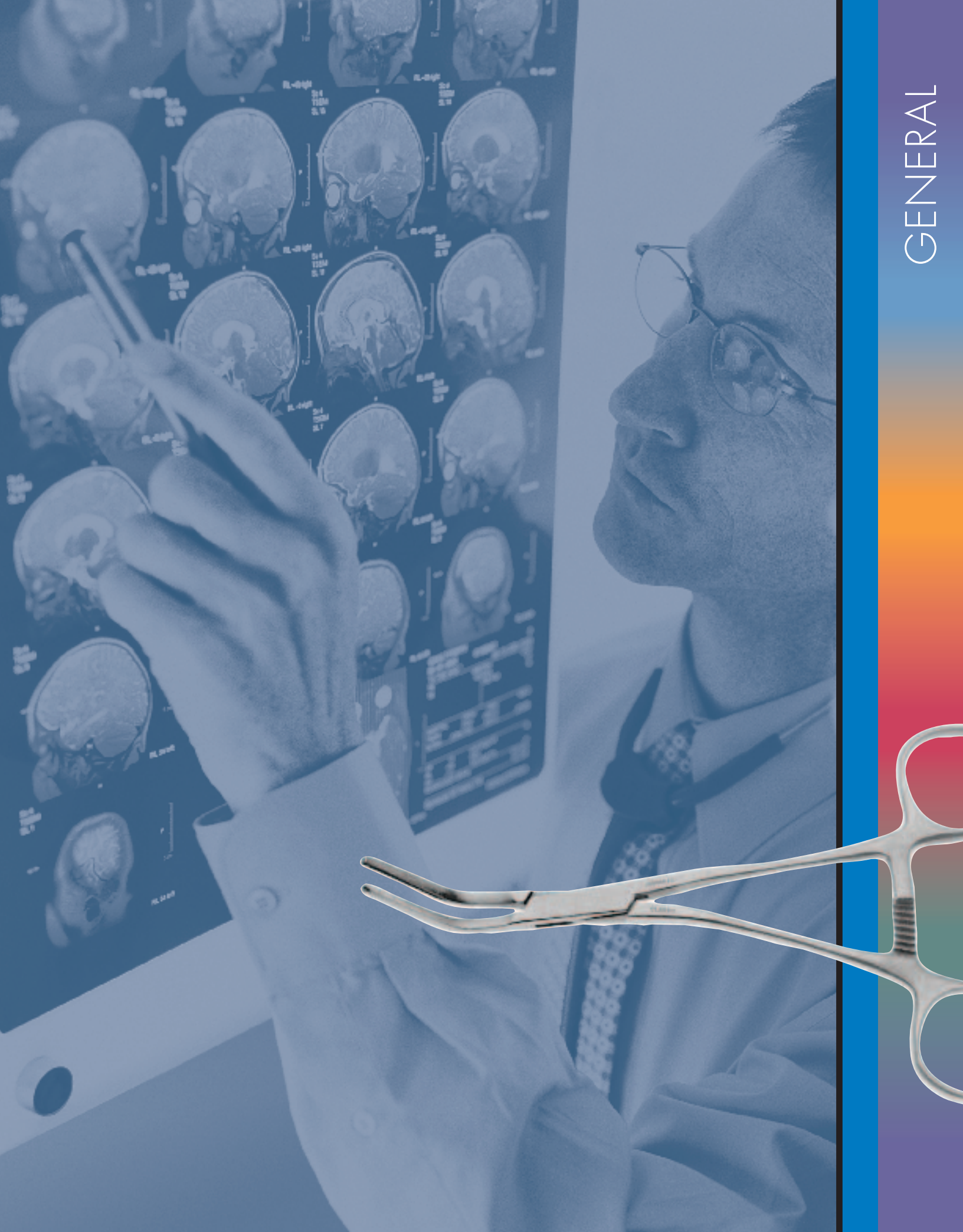
For International contact information

- Call Codman Customer Service @ 1-800-225-0460.

OR

- www.codman.com

Codman



GENERAL

METRIC
INCHES
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

BASIN

	CODMAN Emeses Basin		
		Length	Width
32-3300	10 oz.	3½″	1⅝″
32-3301	12 oz.	3⅝″	1⅝″
32-3302	26 oz.	4½″	2⅛″



BOWL, SPONGE

	CODMAN Sponge Bowl	
32-3304	12 oz., Sponge	2″
32-3305	22 oz., Sponge	2⅜″
32-3306	29 oz., Sponge	2 9/16″



CLAMPS, TOWEL



	BACKHAUS™ Towel Clamps		
	Bright Finish		
32-5000	Length	3½″	(89mm)
32-5005	Length	5½″	(140mm)
	BACKHAUS™ CLASSIC® Towel Clamps		
	Bright Finish		
33-5000	Length	3½″	(89mm)
33-5005	Length	5½″	(140mm)



	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.		



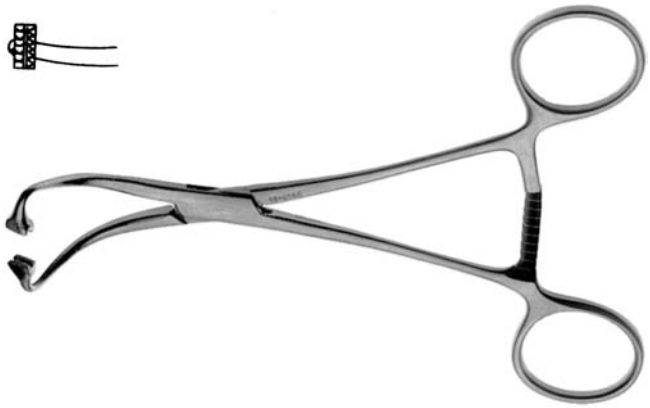
19-1016	JONES Towel Clamp, cross-action.		
	Length	3½″	(89mm)



	EDNA Towel Clamps, non-perforating		
	Bright Finish		
32-5016	Length	3½″	(89mm)
32-5015	Length	5½″	(140mm)
	EDNA™ CLASSIC® Towel Clamps, non-perforating.		
	Bright Finish		
33-5016	Length	3½″	(89mm)
33-5015	Length	5½″	(140mm)

CLAMPS, TOWEL

19-4146 PEERS Towel Clamp, non-perforating.
Length 5¾″ (146mm)



19-4012 ROEDER Towel Clamp, ball stops.
Length 5¼″ (133mm)



CLAMPS, TUBING



19-8010 CODMAN Tubing Clamp, should be used with tubing no larger than ¼″ in diameter.
Jaw length to cuff 1 5/16″ (32mm)
Length 7½″ (191mm)

CLAMPS, TUBING

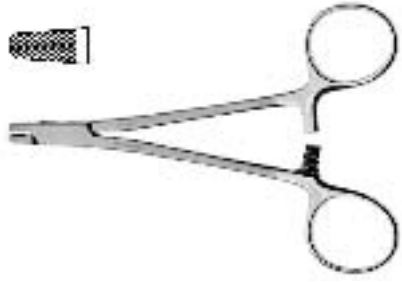


	CODMAN Clamp Forceps with Guard	Length	
32-3512	Tubing 1cm	6″	(15.2cm)
32-3513	Tubing 1.6cm	7¼″	(18.4cm)
32-3514	Tubing 2.2cm	8″	(20.3cm)



19-4133	TUBING Clamp, cross-hatched jaws.		
	Jaw length	1¾″	(45mm)
	Tubing jaw length	1″	(25mm)
	Tubing jaw opening with closed ratchets	⅛″	(3mm)
	Length	6½″	(165mm)

CLAMP, WIRE HOLDING



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

CUP, IODINE

32-3311	Iodine Cup, 6 oz. (177mL), 3″(95mm) × 2″(41.5mm)



CUP, MEDICINE

32-3310	Medicine Cup, 2 oz. (60mL), 2″(57.5mm) × 2″(32.55mm)



CUTTERS, WIRE

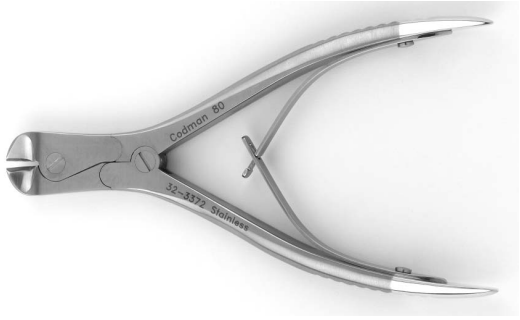


56-2510	CODMAN Wire Cutter Length	7″	(178mm)



56-2507	KIRSCHNER Wire Cutter, chrome plated. Length	11¼″	(159mm)





VITAL Wire Cutter, Side Cutting

		Jaw	Length	
32-3370	Single Action	Straight	7″	(17.8cm)
32-3371	Double Action	Straight	9″	(22.9cm)
32-3372	Double Action	Angled	6½″	(16.5cm)
32-3373	Double Action	Angled	9″	(22.9cm)

CUTTERS, WIRE

32-3341 Wire Cutters, tungsten carbide inserts
Length 7″ (17.8cm)



DILATORS

25-4005 BAKES Common Duct Dilators, set of nine in blue vinyl roll.



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)



65-1038	MILLIGAN Dissector, double-ended.		
	Length	8½″	(216mm)
	Tip sizes		(14mm)
			(16mm)

Codman



PENFIELD Dissectors

65-1015 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)

80-1660 The RHOTON Micro Dissector Set is designed for use during aneurysm or tumor dissections, and has particular application for acoustic neuromas. Each instrument is made from titanium for purposes of balance, durability, and corrosion resistance. (Replaces 80-1695.)

RHOTON Micro Dissectors and Case

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, 40°, #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 Str., #15
Q. 80-1696 Teardrop Dissector, 90°, #16, 3mm tip
R. 80-1697 Teardrop Dissector, 90°, #17, 5mm tip
S. 80-1698 Teardrop Dissector, 40°, #18, 4mm tip
T. 80-1699 Teardrop Dissector, 40°, #19, 8mm tip



ELEVATORS



65-6620	FREER Septum Elevator, double-ended, sharp, and blunt.		
	Blade width		(4.5mm)
	Total length	7 1/8″	(181mm)
	Length	7 1/4″	(184mm)

FORCEPS



30-1194	PENFIELD Watchmaker Forceps.		
	Tip width		.9mm
	Length	7″	(178mm)

FORCEPS, ARTERY



32-3548	SAROT Artery Forcep, serrated, curved		
	Length	14″	(35.6cm)

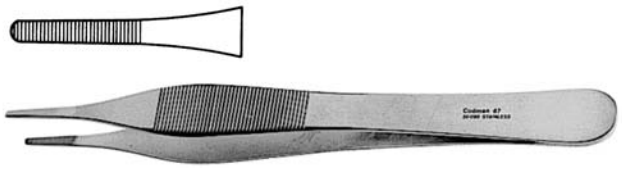
FORCEPS, CLIP APPLYING



	These applicator forceps are used with EDWARDS Parallel Jaw Spring Clips. (sold separately)		
37-4016	Spring Clip Applier		
	Length	7 1/4″	(18.4cm)

FORCEPS, DRESSING

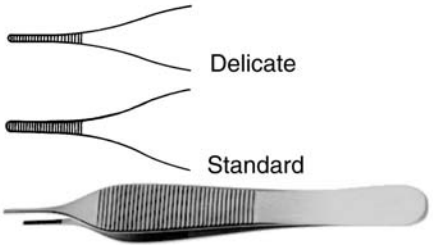
30-1190 ADSON Dressing Forceps, standard pattern.
Tip width 2mm
Length 7″ (178mm)



30-1191 ADSON Dressing Forceps, bayonet shape.
Working distance 3⅝″ (92mm)
Tip width 2mm
Length 7½″ 191mm



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



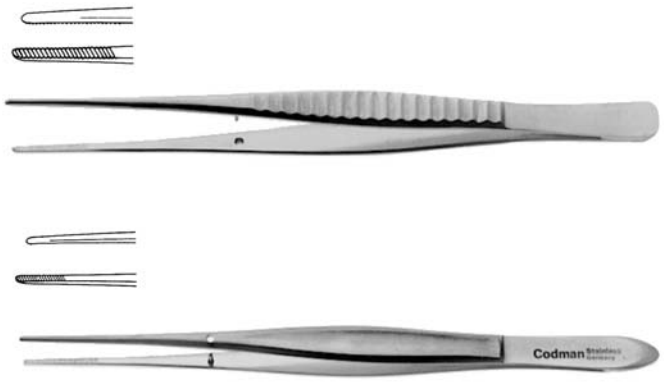
30-1181 BRAIN Dressing Forceps, narrow, serrated.
Tip width 1mm
Length 7″ (178mm)



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



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	7¾″	(197mm)

Tip width is measured 1mm from the instrument tip.



	CUSHING DRESSING Forceps, serrated, bayonet shape, dissecting end.		
	Length	7¼″	(184mm)
30-1155	Working distance	3″	(76mm)
	Tip width		1.8mm
	Length	7¾″	(197mm)
30-1156	Working distance (89mm)		3½″
	Tip width		1.4mm

FORCEPS, DRESSING

30-1203 D'ERRICO Dressing Forceps, serrated, bayonet shape.

Working distance	3¼″	(83mm)
Tip width		2.1mm
Length	8¾″	(222mm)





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)

32-3541 Thumb Forcep

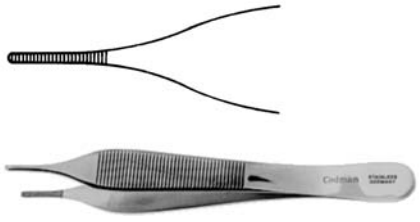
Length	14″	(35.6cm)
Jaw	3.4mm	



30-4215 EWALD-HUDSON Dressing Forceps, serrated.

Tip width		1.7mm
Length	5″	(127mm)

Tip width is measured 1mm from the instrument tip.



30-1214 GERALD Dressing Forceps, serrated, straight.

Tip width		1.1mm
Length	7″	(178mm)



FORCEPS, DRESSING



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



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)



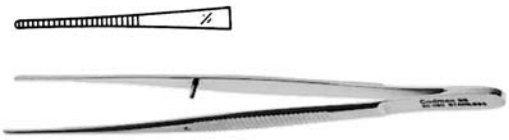
POTTS-SMITH Dressing Forceps, serrated.

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)



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)



30-4517 SINGLEY TUTTLE Intestinal Forceps, serrated fenestrated jaws.

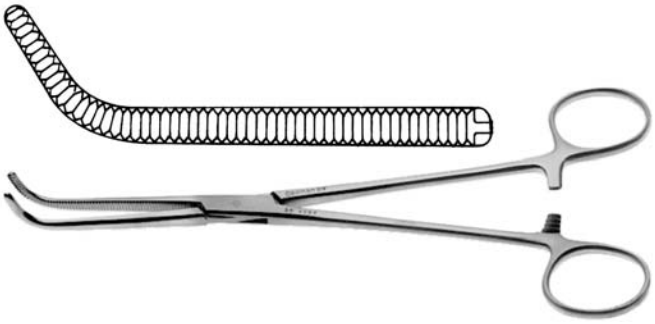
Length	9″	(229mm)

FORCEPS, DURAL

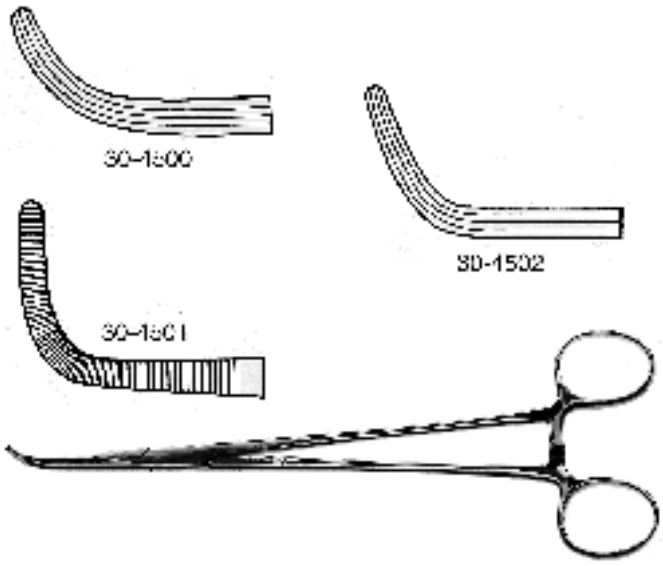


80-1731	RHOTON Dural Forceps, titanium, 1x2 teeth.		
	Tip width		1mm
	Length	7″	(178mm)

FORCEPS, GALLBLADDER



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



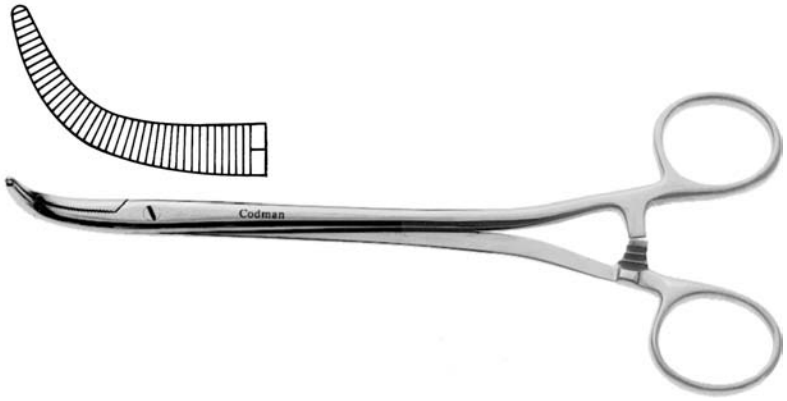
	LAHEY Gall Duct Forceps		
30-4501	Cross serrations		
	Length	7½″	(191mm)
30-4500	Longitudinal serrations		
	Length	7½″	(191mm)
30-4502	Length	8¾″	(222mm)

FORCEPS, GALLBLADDER

MIXTER Gallbladder Forceps, curved.

30-4080	Length	6¼″	(159mm)
30-4081	Length	7″	(178mm)

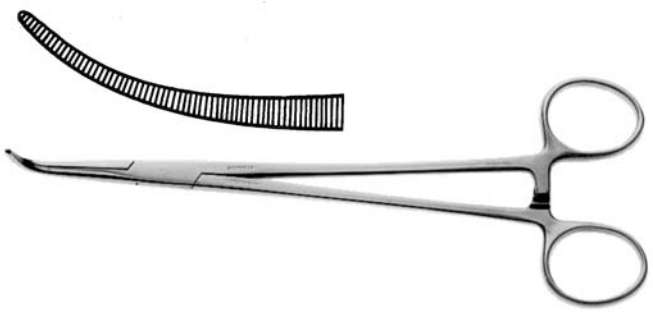




30-4295	MOYNIHAN Gall Duct Forceps, curved.		
	Length	8½″	(216mm)

VARCO Gallbladder Forceps

	Length	7½″	(191mm)
30-4652	Slightly curved		



FORCEPS, GASTROINTESTINAL

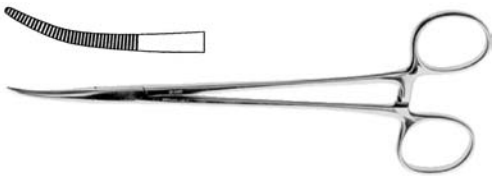


32-3515	GLASSMAN Non-Crushing Forcep		
	Blade Width	.7cm	
	Length	9″	(23cm)

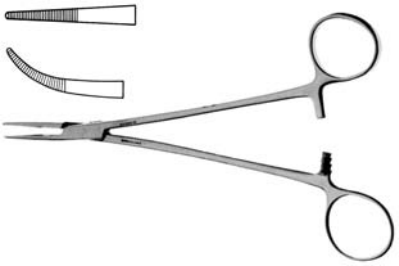


32-3516	GLASSMAN Non-Crushing Forcep, straight, serrated		
	Length	8″	(20cm)

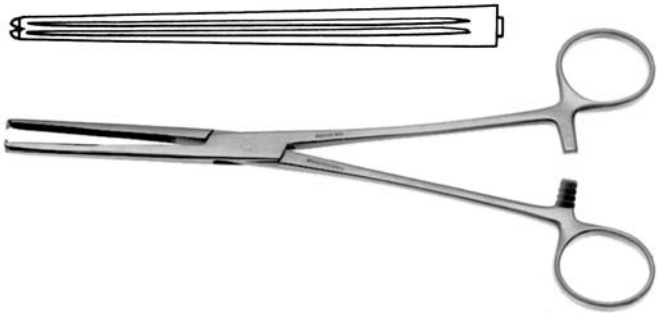
FORCEPS, HEMOSTATIC



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



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



19-4056	ALLEN Intestinal Anastomosis Clamp, 1x2 teeth.		
	Jaw Length	2¼″	(57mm)
	Total Length	7⅛″	(200mm)

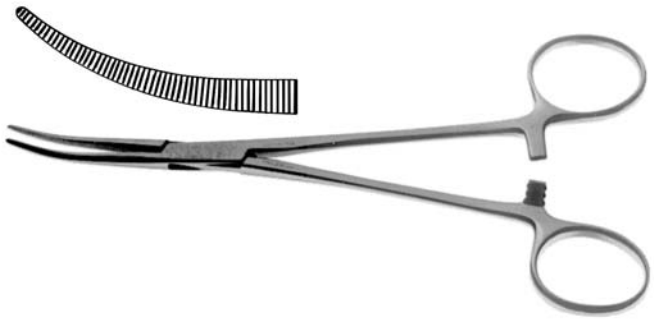
FORCEPS, HEMOSTATIC

BARNES-CRILE CLASSIC® Hemostatic Forceps
Length 6¼″ (159mm)
Bright Finish

32-4043 Curved



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

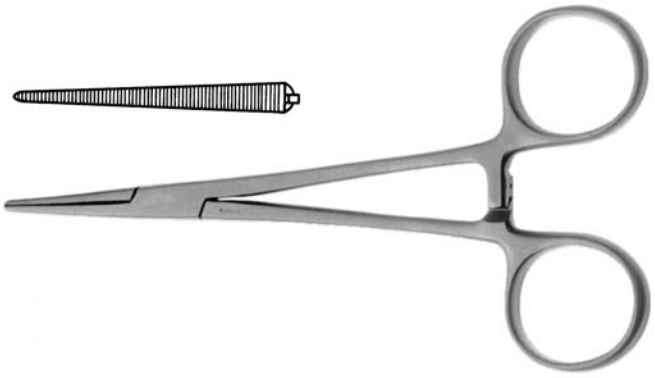


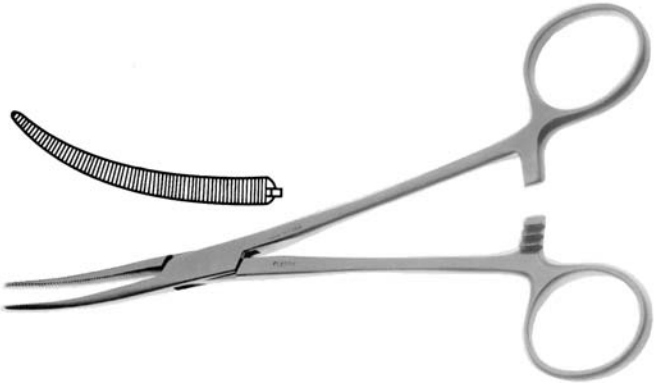
CRILE CLASSIC® DELICATE Hemostatic Forceps
Length 5½″ (140mm)

30-4467 Straight
30-4468 Curved



FORCEPS, HEMOSTATIC





	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)



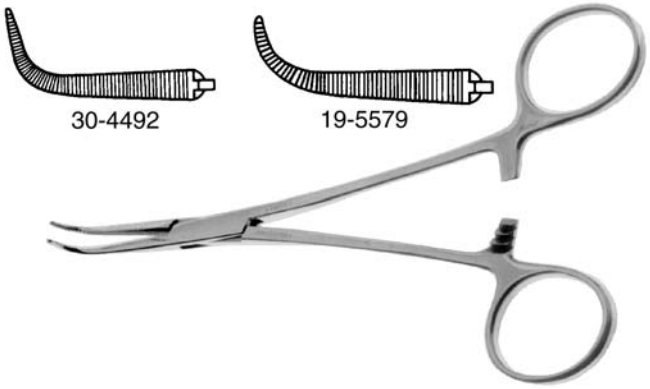
	DANDY™ Scalp Hemostatic Forceps, curved on side.			
	Length		5½″	(140mm)
	Bright Finish			
32-4160	Serrated			
32-4161	1 x 2 teeth			

FORCEPS, HEMOSTATIC



	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)



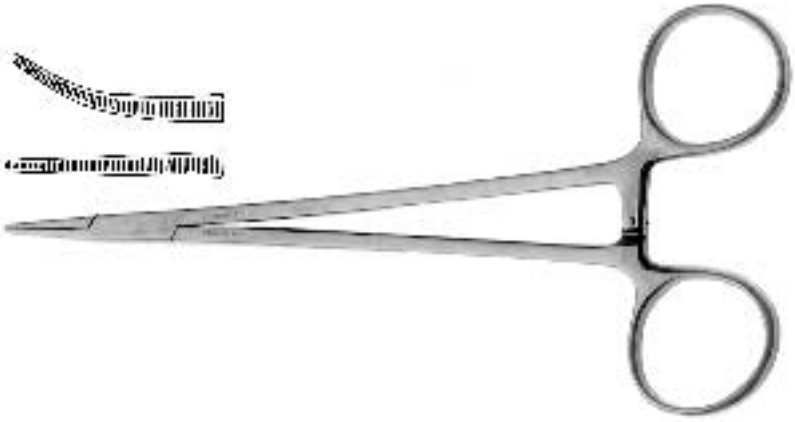
32-3546	GEMINI Tissue Forcep, serrated tip			
	Length	14″	(35.6cm)	



FORCEPS, 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		



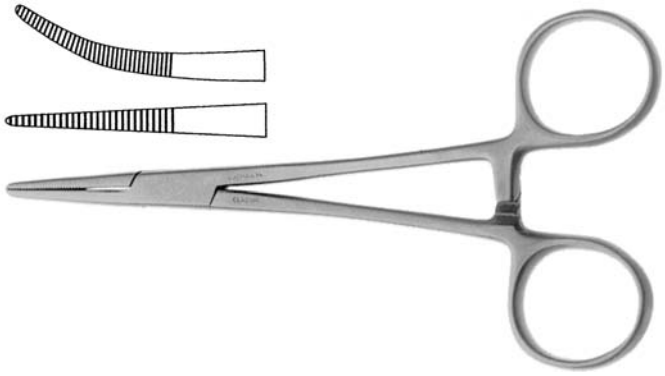
	HALSTED Hemostatic Forceps, 1x2 teeth,		
	Length	5″	(127mm)
30-4105	Straight		
30-4106	Curved		

FORCEPS, HEMOSTATIC

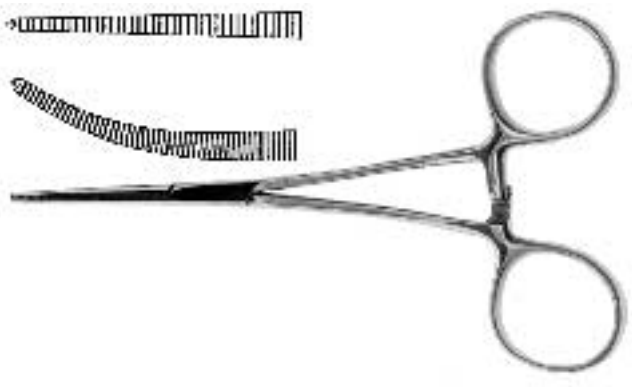
30-1230	HOEN Angular Forceps, alligator action, 1x2 teeth.		
	Tip width		2.2mm
	Shaft length	5½″	(140mm)



	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		



FORCEPS, HEMOSTATIC



KOCHER CLASSIC® DELICATE Hemostatic Forceps, 1x2 teeth.
Length 5½″ (140mm)

30-4490	Straight
30-4491	Curved



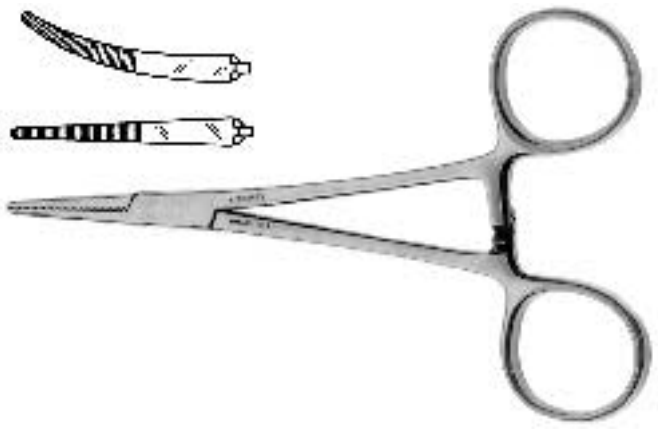
KOCHER™ Hemostatic Forceps, 1 x 2 teeth.
Length 5½″ (140mm)
Bright Finish

32-4100	Straight

FORCEPS, HEMOSTATIC

LAHEY Hemostatic Forceps, with full serrations.

	Length	6″	(146mm)
30-4020	Straight		
30-4021	Curved		



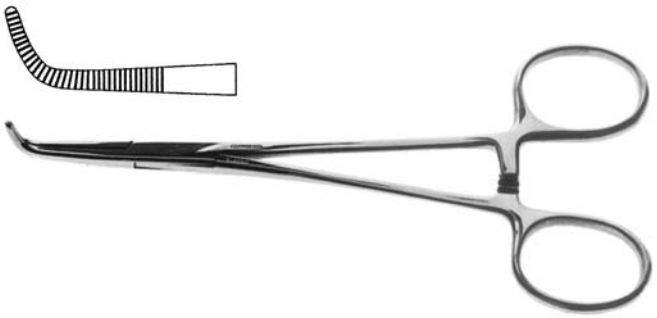
MAGNAFREE™ Crile Forceps, Non-Magnetic (titanium) for Interventional MRI. MRI safe up to 1.5 Tesla.

MRI Crile Forcep, delicate hemostatic forceps

	Length	5½″	(140mm)
65-2418	Straight		
65-2419	Curved		



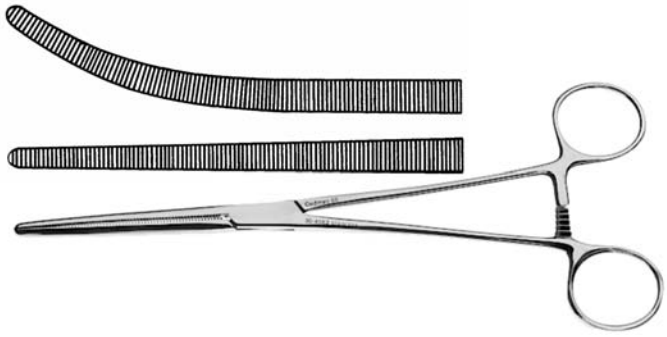
FORCEPS, HEMOSTATIC



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



	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)



30-4462	PEAN CLASSIC® DELICATE Hemostatic Forceps, curved.		
	Length	5½″	(140mm)

FORCEPS, HEMOSTATIC

32-4011	PROVIDENCE HOSPITAL™ Hemostatic Forceps, Curved Bright Finish	Length	5½″	(140mm)



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



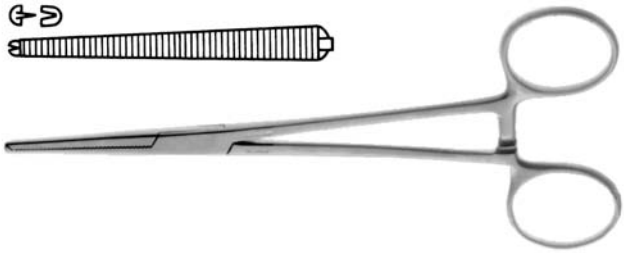


30-8092	ROCHESTER-CARMALT Hemostatic Forceps, longitudinal serrations, curved. Length		12¼″	(312mm)

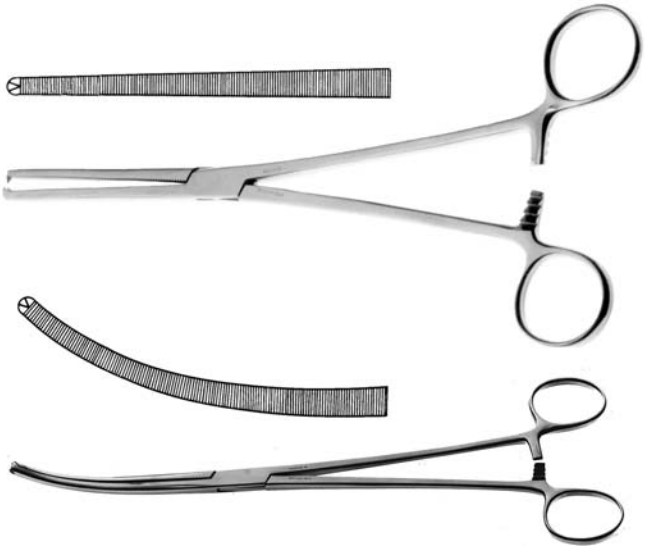
	ROCHESTER-CARMALT™ Hemostatic Forceps Bright Finish			
32-4141	Curved	Length	6½″	(165mm)
32-4151	Curved	Length	8″	(203mm)



FORCEPS, HEMOSTATIC



	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)



	ROCHESTER-OCHSNER 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)



32-3539	ROCHESTER OCHSNER Hemostatic Forcep, straight, serrated, 1x2 teeth		
	Length	14″	(35.6cm)

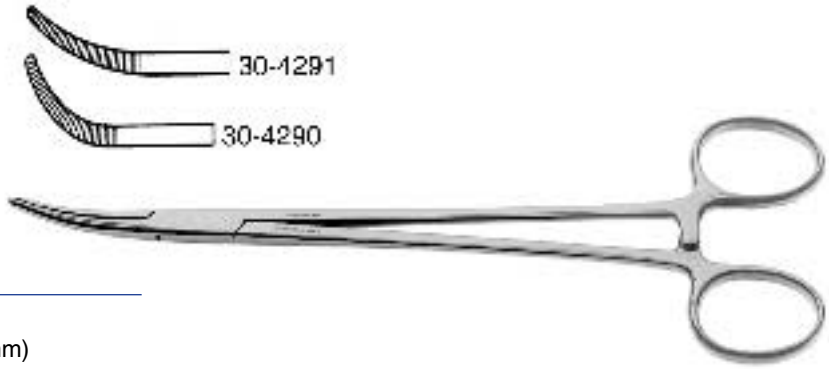
FORCEPS, HEMOSTATIC

	Rochester Pean Forcep, Hemostatic		
	Length		
32-3553	12″	(30.5cm)	
32-3554	14″	(35.5cm)	



	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)





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

FORCEPS, HEMOSTATIC



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

FORCEPS, HYPOPHYSEAL



30-1000	ADSON Hypophyseal Forceps, bayonet shape.		
	Cup I.D.	¼″	(6mm)
	Working distance	4½″	(114mm)
	Total length	9″	(229mm)



30-1204	D'ERRICO Hypophyseal Forceps, bayonet shape.		
	Cup I.D.	¼″	(6mm)
	Working distance	3½″	(89mm)
	Total length	8⅝″	(219mm)

FORCEPS, INTESTINAL



30-4700 BRIDGE Intestinal Forceps, curved.
Length 11″ (279mm)

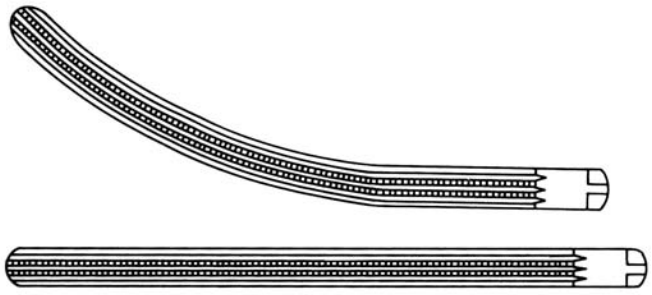


19-4060 DENNIS Intestinal Clamp
Jaw length 2¼″ (57mm)
Total length 9½″ (241mm)



DOYEN Intestinal Forceps, diagonal serrations.
Jaw length 4⅛″ (105mm)
Total length 9¼″ (235mm)
30-4305 Straight
30-4306 Curved

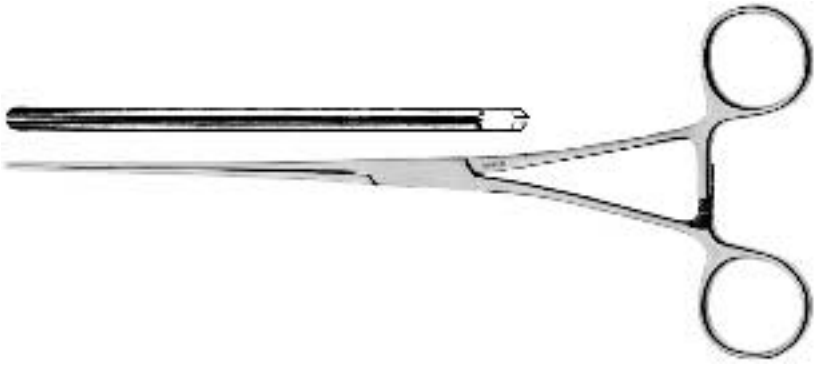
FORCEPS, INTESTINAL





DOYEN Vascular Toothed Intestinal Clamps, 2x3 vascular teeth.

	Jaw length	3¾″	(95mm)
	Total length	9″	(229mm)
37-1600	Straight		
37-1601	Curved		



KOCHER Intestinal Forceps, longitudinal serrations.

30-4300	Straight	Length	11″	(279mm)

FORCEPS, INTESTINAL

KOCHER Intestinal Forceps

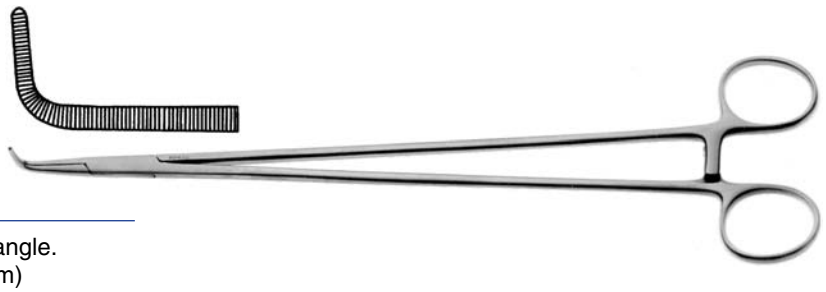
	Length	5½″	(14cm)
32-3525	Straight		
32-3526	Curved		



MASTERS Intestinal Clamps

19-4061	Jaw length	6½″	(165mm)
	Total length	10¾″	(273mm)
19-4062	Jaw length	4½″	(114mm)
	Total length	9¼″	(235mm)



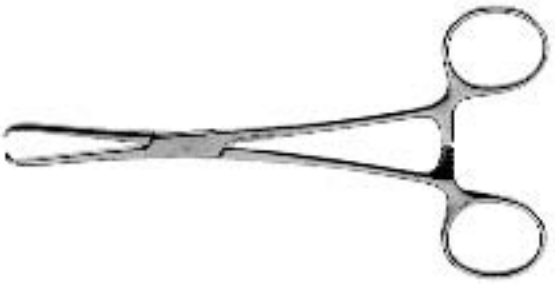


30-4701 MEEKER Intestinal Forceps, right angle.

	Length	10¾″	(273mm)

19-4172 STONE Clamp Applying Forceps

	Length	6¼″	(159mm)



FORCEPS, INTESTINAL

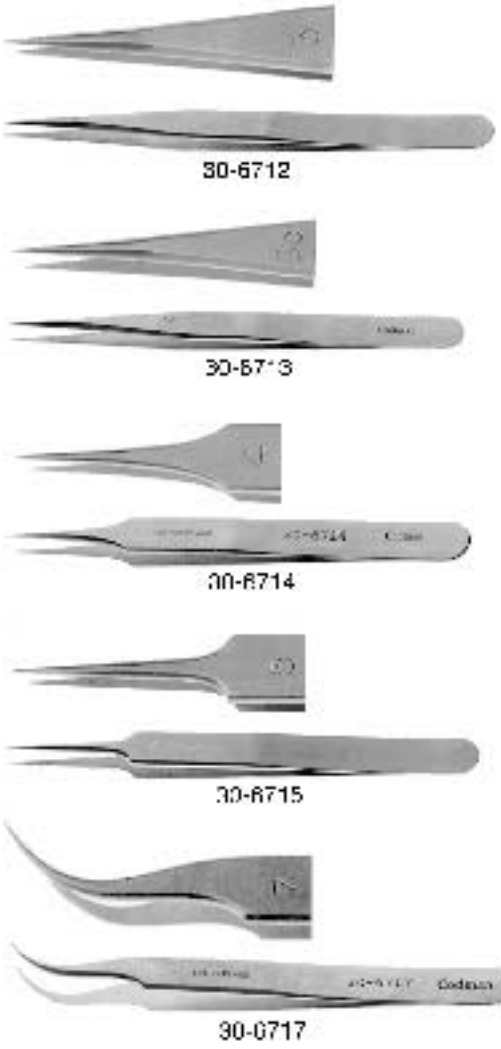


19-4096	STONE Clamp Locking Device	



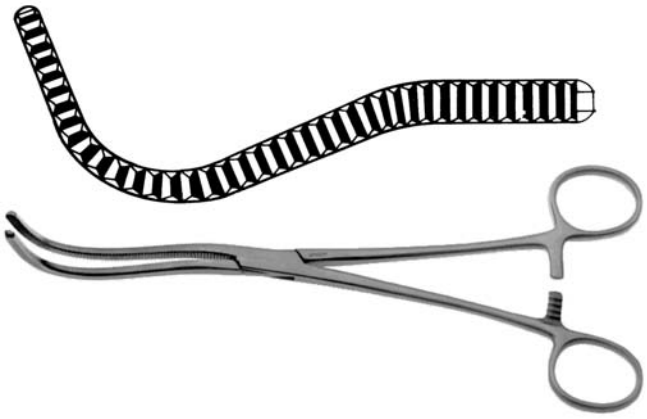
	STONE Intestinal Anastomosis Clamp, longitudinal serrations.		
19-4097	Jaw length	3″	(76mm)
19-4098	Jaw length	4″	(102mm)

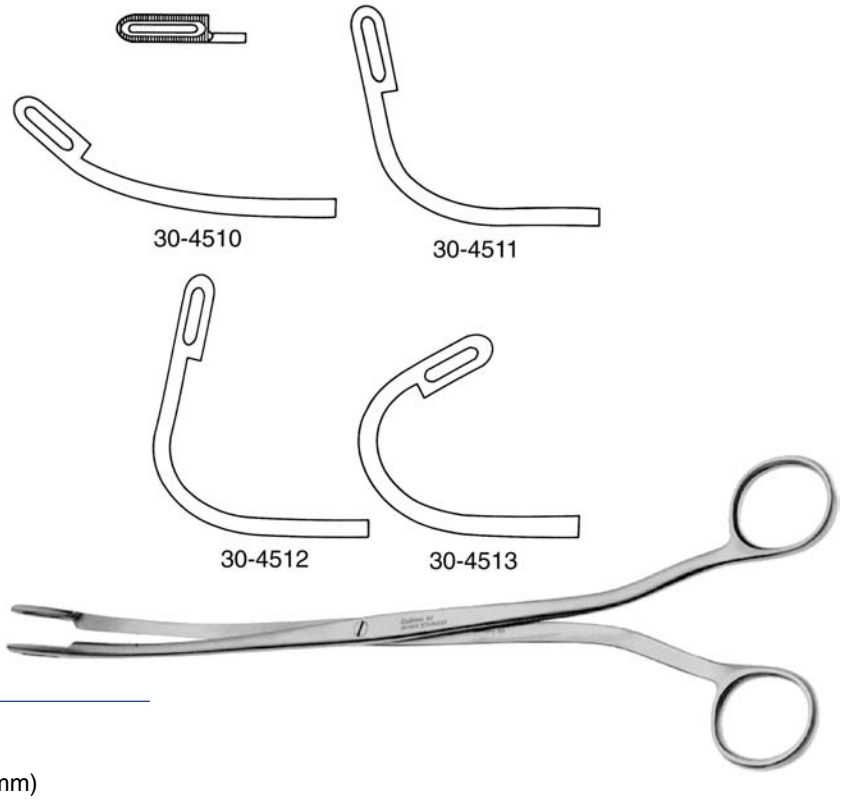
FORCEPS, JEWELERS



	JEWELERS Forceps			
30-6712	#3	Length	4¾″	(121mm)
30-6713	#3C	Length	4⁵⁄₁₆″	(109mm)
30-6714	#4	Length	4¼″	(108mm)
30-6715	#5	Length	4⁵⁄₁₆″	(109mm)
30-6717	#7 Curved	Length	4⅝″	(117mm)

19-4018	MAYO GUYON Kidney Clamp		
	Jaw Length	31 1/16″	(85mm)
	Total Length	9″	(229mm)





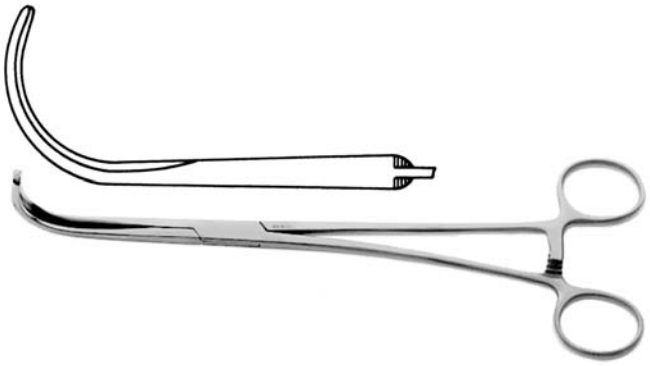
	RANDALL Kidney Stone Forceps		
30-4510	Quarter curved		
	Length	9 1/4″	(234mm)
30-4511	Half curved		
	Length	8 3/4″	(222mm)
30-4512	Three-quarter curved		
	Length	7 3/4″	(197mm)
30-4513	Full curved		
	Length	7 1/2″	(191mm)

FORCEPS, LIGAMENTA FLAVA



30-1228	LIGAMENTA FLAVA Forceps, curved on side, 1x2 teeth.		
	Length	7¼″	(184mm)

FORCEPS, LIGATURE



30-8056	SEMB Ligature Carrying Forceps, acute curve.		
	Length	9½″	(241mm)

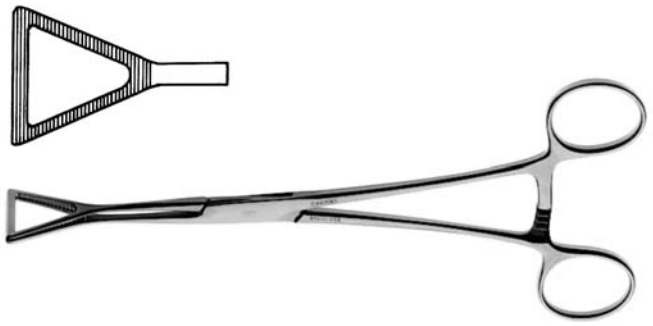
FORCEPS, LIVER



	MASTERS-SCHWARTZ Liver Clamp		
19-4063	Jaw width	½″	(13mm)
	Jaw length	7½″	(191mm)
	Total length	12″	(305mm)

FORCEPS, LUNG

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



36-6055	DUVAL CLASSIC PLUS® Lung Grasping Forceps, tungsten carbide tip inserts, triangular jaws.		
	Jaw width	3⁄8″	(10mm)
	Total length	8¼″	(210mm)



FORCEPS, PYLORUS

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



FORCEPS, RIGHT ANGLE

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

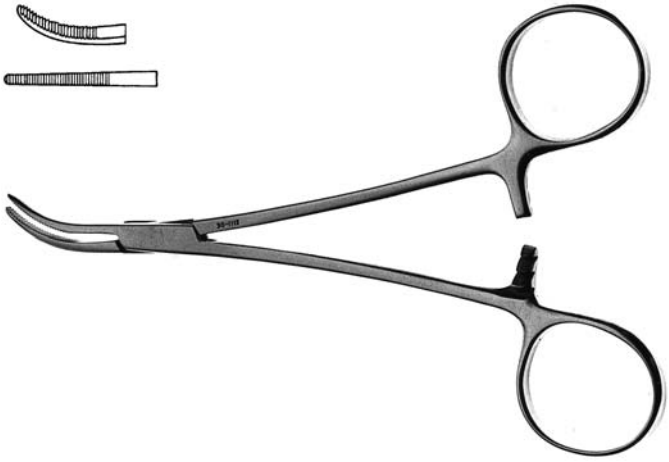


FORCEPS, SCALP

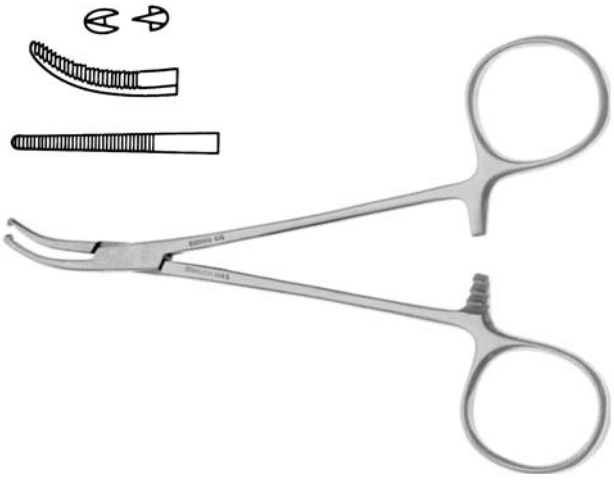


DANDY™ Scalp Hemostatic Forceps, curved on side.
Length 5½″ (140mm)
Bright Finish

32-4160 Serrated
32-4161 1 x 2 teeth



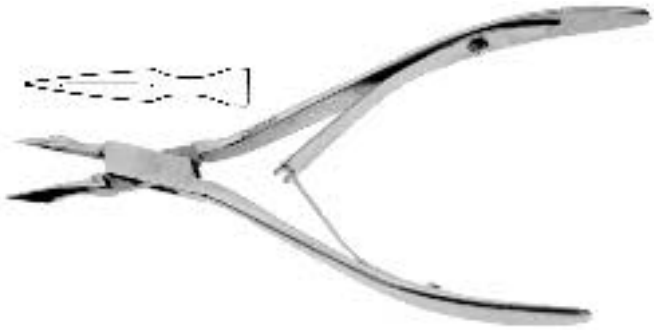
30-1115 HOEN Scalp Hemostatic Forceps, serrated, curved on side.
Length 5⅜″ (137mm)



30-1360 RAIMONDI Infant Scalp Hemostatic Forceps, 1x2 teeth, curved on side.
Length 5″ (127mm)

FORCEPS, SPLINTER

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



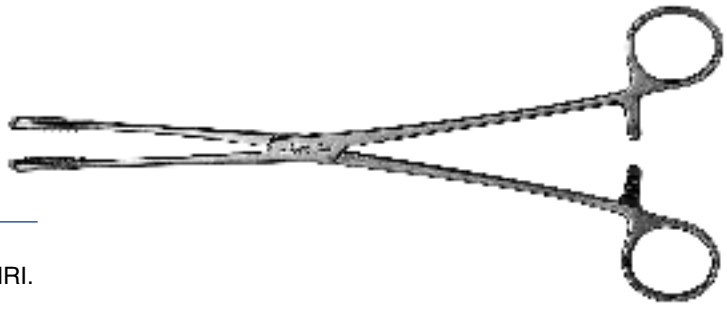
30-4255 WALTER Splinter Forceps
Length 4¼″ (108mm)



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

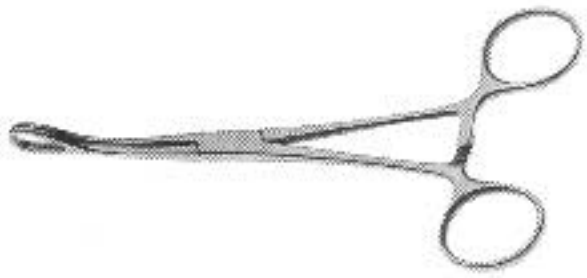


FORCEPS, SPONGE



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, SPONGE



	SPONGE CLASSIC® Holding Forceps, serrated jaws. Bright Finish			
33-6030	Straight	Length	9″	(229mm)
33-6031	Curved	Length	9″	(229mm)
	SPONGE Holding Forceps, serrated jaws. Bright Finish			
32-6010	Straight	Length	7"	(178mm)
32-6011	Curved	Length	7"	(178mm)
32-6030	Straight	Length	9"	(229mm)
32-6031	Curved	Length	9"	(229mm)



32-3540	Sponge Holding Forceps, serrated jaw, straight			
	Length		14″	(35.6cm)

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, smooth jaws			
19-8029	1⅝″ (40mm) gold band			

FORCEPS, TENACULUM

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



FORCEPS, TENDON

30-2540	CARROLL Tendon Pulling Forceps		
	Shaft length	5″	(127mm)
	Total length	7½″	(191mm)

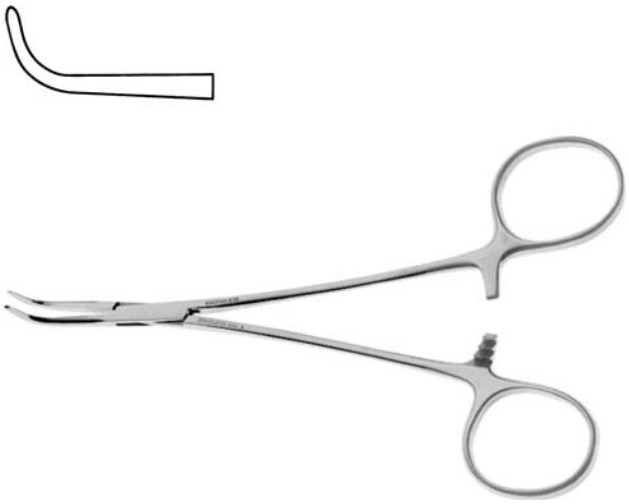


	Tendon Passing Forceps, Point Tip		
	Length	6″	(15.2cm)
		Tip Width	
32-3533	Straight	8mm	
32-3534	Curved	5mm	





FORCEPS, THORACIC



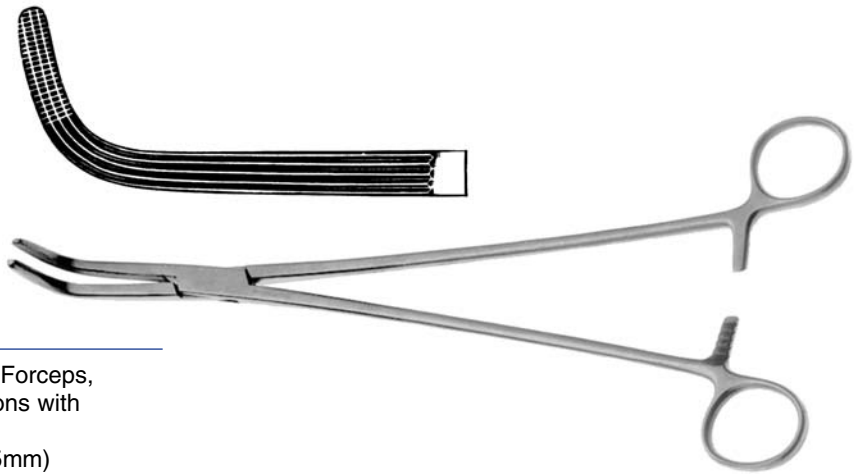
19-8150	CASTANEDA-MIXTER Thoracic Clamp Forceps, smooth jaws.		
	Length	5¼″	(133mm)



	HARRINGTON Forcep, Right Angled		
	Length		
32-3551	12¼″		(31.1cm)
32-3552	14″		(35.6cm)

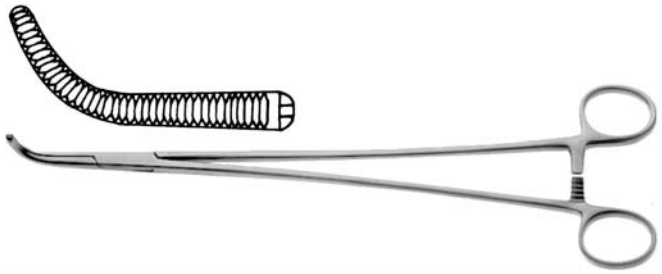


30-8051	HARRINGTON-MIXTER Thoracic Clamp Forceps, right angled, longitudinal serrations with cross-serrated tips.		
	Length	12¼″	(311mm)



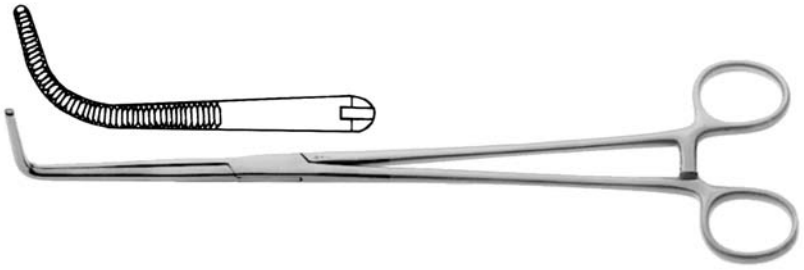
30-8049 HARRINGTON Thoracic Clamp Forceps, right angled, longitudinal serrations with cross-serrated tips.
Length 12″ (305mm)

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



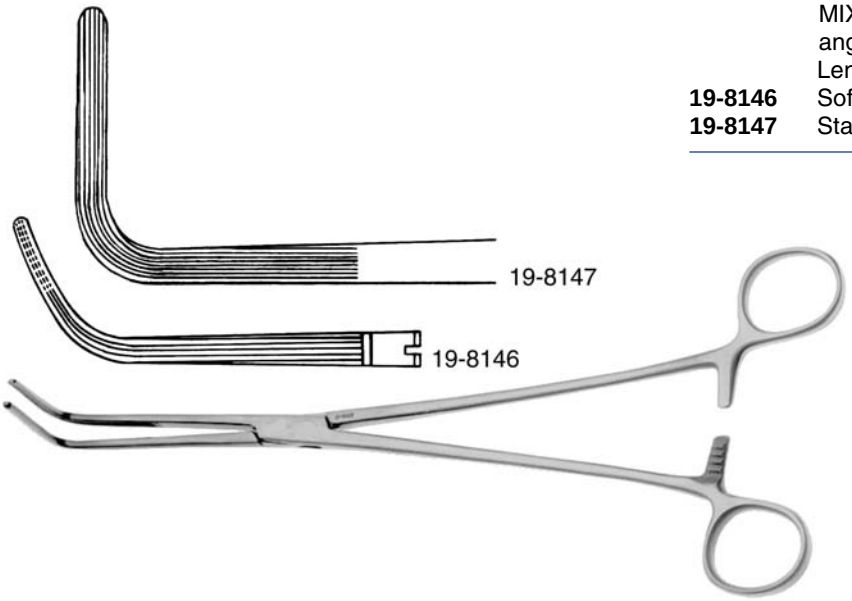
37-4034 JULIAN Thoracic Artery Forceps, 24mm jaw length, slightly curved.
Length 9¼″ (23.5cm)





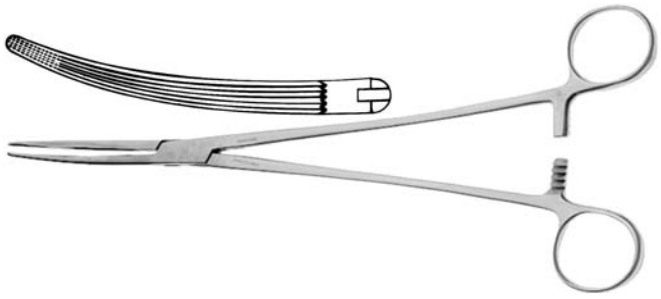
19-8145 MIXTER Thoracic Clamp Forceps, curved, cross-serrations.
Length 9″ (229mm)

FORCEPS, THORACIC

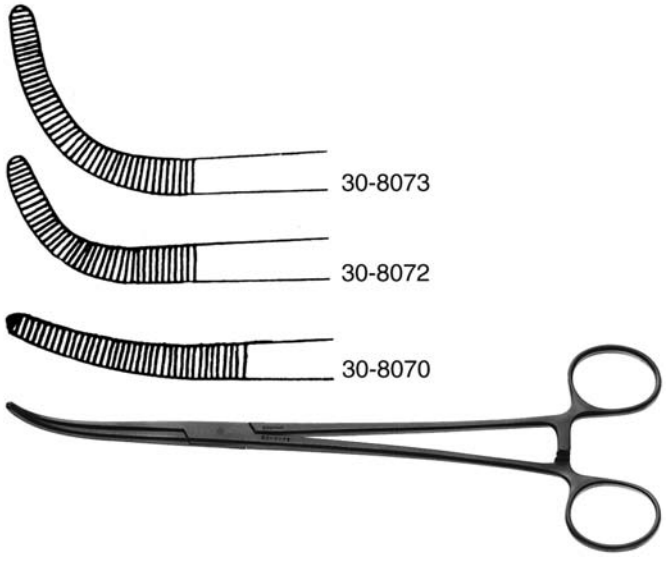


MIXTER Thoracic Clamp Forceps, angular, longitudinal serrations.
Length 11″ (279mm)

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



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



RUMEL Thoracic Forceps
Length 9″ (229mm)

30-8070 Slight curve
30-8072 Full curve
30-8073 Right angle

Codman



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)



32-3547 WILLAUER-ALLIS Forcep
Length 14″ (35.6cm)
Teeth 3 × 3

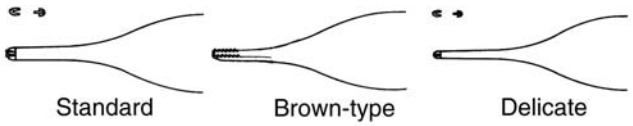


30-8085 WILLAUER-ALLIS Thoracic Tissue Forceps
Tip width 8mm
Length 10″ (254mm)

FORCEPS, TISSUE



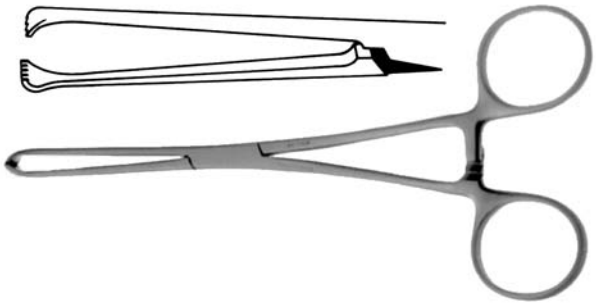
36-6000	ADSON CLASSIC PLUS® Tissue Forceps, with tungsten carbide tip inserts.		
	Tip width		2mm
	Length	4¾″	(121mm)





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

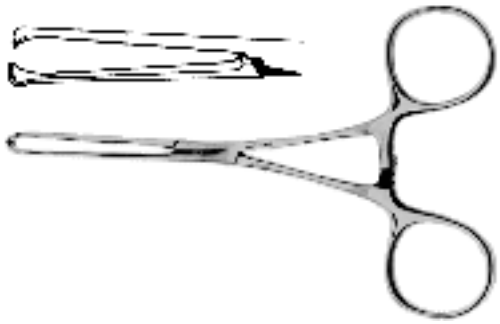
Tip width is measured 1mm from the instrument tip.



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

FORCEPS, TISSUE

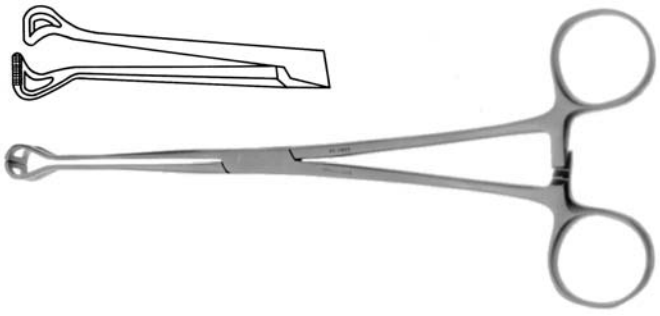
30-4466	ALLIS CLASSIC® DELICATE Tissue Forceps, 5x6 teeth.		
	Length	5″	(127mm)



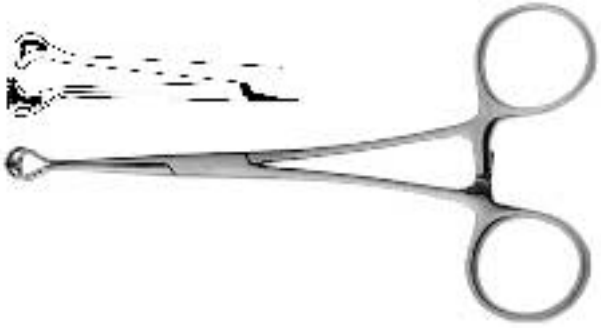
30-4542	ALLIS-ADAIR Tissue Forceps, 9x10 teeth.		
	Length	6″	(152mm)



	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)
	Standard Line		
32-7020	Length	6¼″	(159mm)
32-7025	Length	7¾″	(197mm)
32-7030	Length	9½″	(242mm)



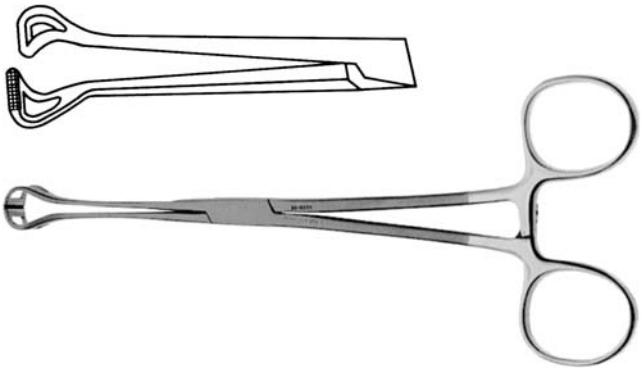
30-4465	BABCOCK CLASSIC® DELICATE Tissue Forceps		
	Length	5¾″	(146mm)



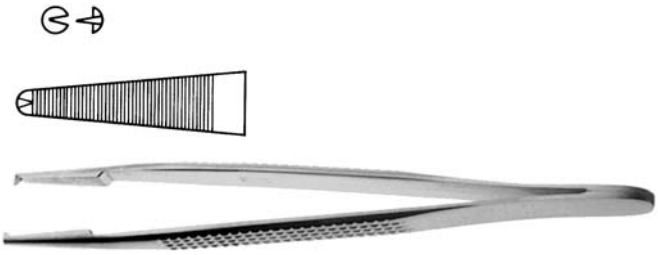
FORCEPS, TISSUE



	BABCOCK Tissue Forcep, serrated, straight		
32-3544	Length	12″	(30.5cm)
32-3545	Length	14″	(35.6cm)



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



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



30-1172	BRAIN Tissue Forceps, narrow, 1x2 teeth.		
	Tip width		1mm
	Length	7″	(178mm)

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





	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)

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 intrument tip.

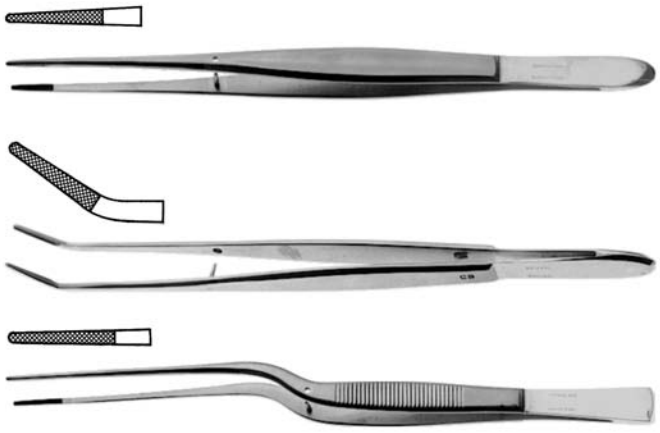


	CODMAN OPTI-LENGTH Forcep, General Surgery		
	Tip Width	Length	
67-7584	2mm	10″	(25.4cm)
67-7585	3mm	10″	(25.4cm)
67-7586	2mm	12″	(30.5cm)
67-7587	3mm	12″	(30.5cm)

FORCEPS, TISSUE



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



	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)

Tip width is measured 1mm from the intrument tip.



	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	7¾″	(197mm)



	CUSHING Tissue Forceps, 1x2 teeth, bayonet shape, dissecting end.		
30-1146	Working distance	3⅜″	(86mm)
	Tip width		1.6mm
	Length	7¼″	(184mm)
30-1147	Working distance	3″	(76mm)
	Tip width		1.6mm
	Length	7¾″	(197mm)

Codman

FORCEPS, TISSUE

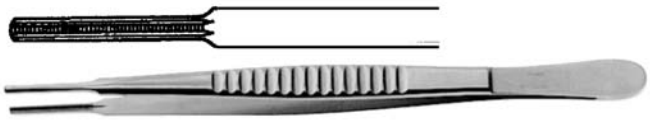
32-3550 DEBAKEY Thoracic Tissue Forcep
Length 14″ (35.6cm)



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.



32-3549 DEBAKEY-COLLIER Tissue Forcep, Serrated, Angled
Length 14″ (35.6cm)





30-1201 D'ERRICO Tissue Forceps, 1x2 teeth, bayonet shape.

Working distance	3⅜″	(86mm)
Tip width		2.4mm
Length	8¾″	(222mm)

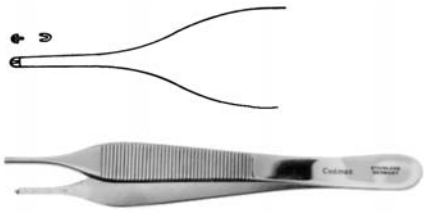
Tip width is measured 1mm from the instrument tip.



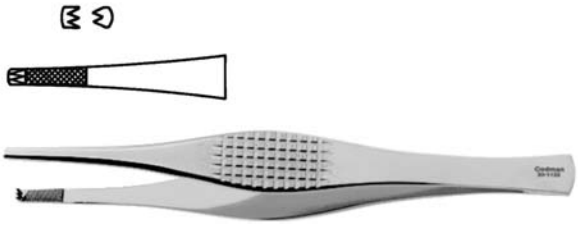
36-6020 EVANS CLASSIC PLUS® Tissue Forceps, tungsten carbide inserts.

Tip width		2mm
Length	10″	(254mm)

FORCEPS, TISSUE



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



30-1132	FERRIS SMITH Tissue Forceps, 2x3 teeth.		
	Tip width		3.9mm
	Length	6¾″	(171mm)

67-7582	FORCEP, TISSUE		
	Jaw Width	Length	
	2mm	8″	[20.3cm]



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)



	GERALD Tissue Forcep, tungsten carbide insert		
	Tip width	.1cm	
32-3531	Length	7″	(17.8cm)
32-3532	Length	10″	(25.4cm)

FORCEPS, TISSUE

GERALD Forcep, Delicate Tissue
Length 9¼″ (23.5cm)

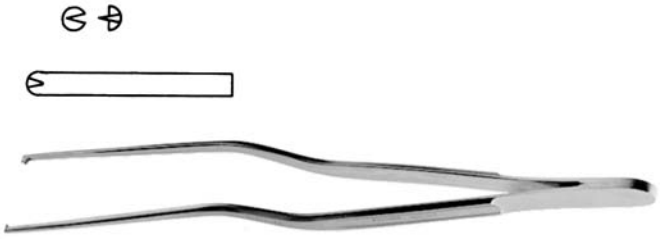
32-3558 1X2 Teeth
32-3559 Serrated Tip



32-3530 GERALD DEBAKEY Tissue Forcep
Tip width .1cm
Length 7″ (17.8cm)

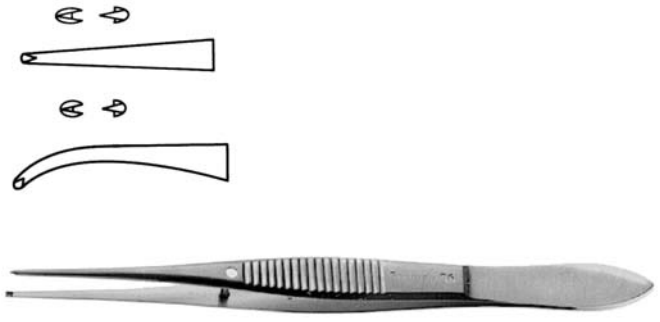


30-1166 HOEN Tissue Forceps, 1x2 teeth, bayonet shape, Gutsch handle.
Working distance 3″ (76mm)
Tip width 2.1mm
Length 7¾″ (197mm)

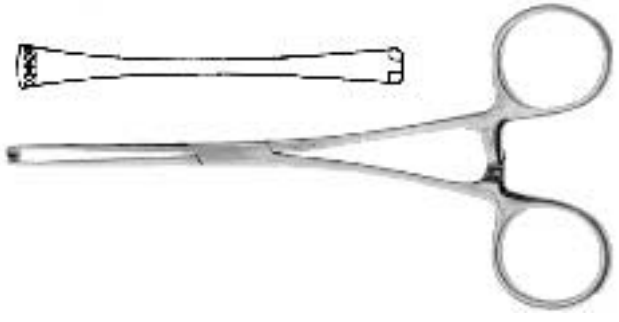


IRIS Tissue Forceps, 1x2 teeth.
Tip width .5mm
Length 4″ (102mm)

30-6530 Straight
30-6532 Curved



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



FORCEPS, TISSUE



MAGNAFREE™ MRI Adson Tissue Forcep, Non-Magnetic (titanium) for intraoperative MRI. MRI safe up to 1.5 Tesla.

65-2413	MRI Adson Tissue Forcep, 1x2 teeth		
	Length	5″	(127mm)



MAGNAFREE™ MRI Tissue Forcep, Non-Magnetic (titanium) for Intraoperative MRI, MRI safe up to 1.5 Tesla

65-2420	MRI Tissue Forcep, 2x3 teeth		
	Tip Width		3.9mm
	Length	5½″	(140mm)



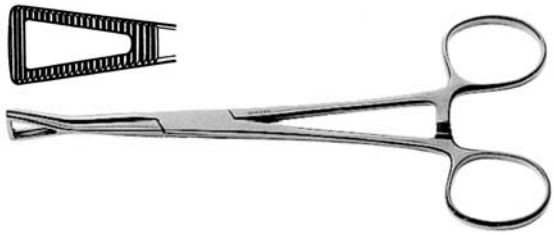
MARTIN Tissue Forceps, multiple teeth.

	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 intrument tip.



	PENNINGTON Tissue Grasping Forceps		
19-4000	Triangular jaws		
	Tip width	7/16″	(11mm)
	Length	6″	(153mm)
19-4001	Triangular jaws		
	Tip width	7/16″	(11mm)
	Length	8″	(203mm)

FORCEPS, TISSUE

	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)



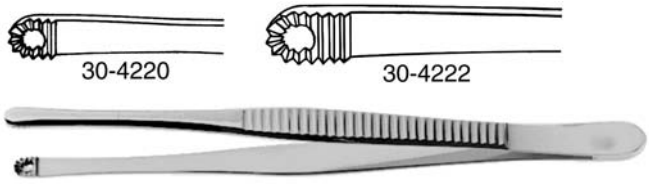


36-6015	POTTS-SMITH CLASSIC PLUS® Tissue Forceps, tungsten carbide inserts.		
	Tip width		1.5mm
	Length	9″	(229mm)

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



	RUSSIAN Tissue Forceps		
30-4220	Tip width		6mm
	Length	6″	(152mm)
30-4221	Tip width		7mm
	Length	8″	(204mm)
30-4222	Tip width		7.2mm
	Length	10″	(254mm)



32-3543	RUSSIAN Tissue Forcep		
	Length	14″	(35.6cm)



FORCEPS, TISSUE



	SELMAN Forcep, Tissue, Non-Slip, Round Tip		
32-3555	Length	6″	(15.2cm)
32-3556	Length	8″	(20cm)
32-3557	Length	10″	(25.4cm)



	SEMKEN Tissue Forceps, 1x2 teeth.		
30-1170	Tip width		1.3mm
	Length	5″	(127mm)

Tip width is measured 1mm from the instrument tip.



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



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



	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)

FORCEPS, TISSUE

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



32-3542	Tissue Forcep, 1X2 Teeth		
	Length	14″	(35.6cm)





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

FORCEPS, TONGUE SEIZING

30-4330	COLLIN Tongue Seizing Forceps		
	Length	6½″	(165mm)



FORCEPS, TONSIL SEIZING



	WHITE Tonsil Seizing Forceps		
30-7315	Length	7″	(178mm)
30-7316	Length	9″	(229mm)

FORCEPS, TUBE HOLDING



70-4142	GREENE Tube Holding Forceps		
	Length	6½″	(165mm)



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

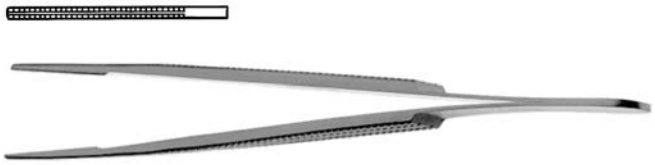


30-4554	THOMS-ALLIS Tissue Forceps, 6x7 teeth.		
	Tip width	¼″	(6mm)
	Length	8½″	(216mm)

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.

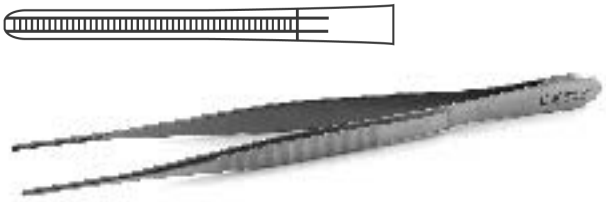
Tip width		2mm
Tooth length		.8mm
Serration length		17mm
Length	7¾″	(197mm)



Tip width is measured 1mm from the instrument tip.

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 OPTI-LENGTH FORCEPS

	Tip Width	Length	
67-7800	1.5mm	12″	(30.5cm)
67-7801	2mm	12″	(30.5cm)
67-7802	1.5mm	14″	(35.6cm)
67-7803	2mm	14″	(35.6cm)

DeBAKEY-DIETHRICH Vascular Forceps

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

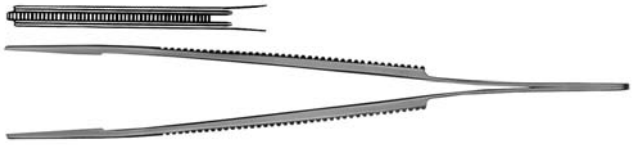


Tips taper from 1.5mm to 1.3mm for the distal 2.0cm. Useful with very delicate vessels or sutures.

FORCEPS, VASCULAR



	DEBAKEY-DIETHRICH Vascular Tissue Forcep, Delicate tip		
	Tip width	Length	
32-3535	.1cm	6″	(15.2cm)
32-3536	.1cm	7¾″	(19.7cm)
32-3537	.1cm	9½″	(24.1cm)



	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



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

HAND, LEAD

	Hand, Lead
32-3312	Child, Malleable
32-3313	Adult, Malleable



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

KNIFE

	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)



40-1002	CRILE Gasserian Ganglion Knife, double-ended.		
	Length	8½″	(216mm)
	Tip sizes		(6mm)
			(16mm)



KNIFE



40-6852	FISHER Tonsil Knife		
	Blade length	5⁄8″	(16mm)
	Length	9″	(228mm)

KNIFE, MICRO



Javelin Micro-Knife Handles
These Javelin Micro-Knife Handles are sold individually and are designed to be used with KARLIN™ Micro Tip and Ultra Tip Micro-Knife blades.

	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

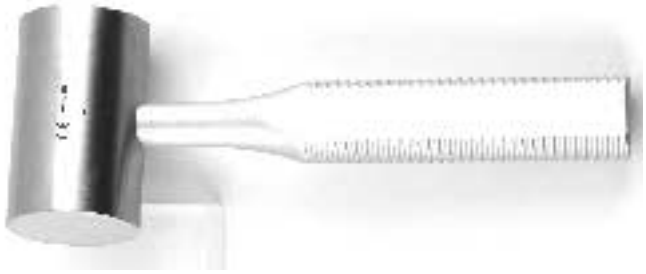
LUBRICANT



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.

MALLET

32-3330 HEATH Mallet, Flat, 2 lbs. (908g)
Length 7¼″ (18.4cm)
Head Dimensions 2½″ (6.4cm) × 1½″ (4cm)



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)

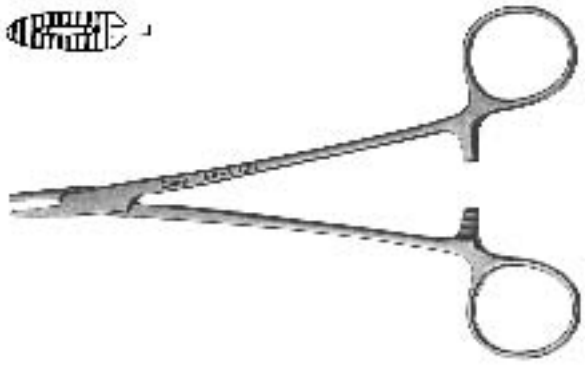


88-2500 SMITH PETERSEN Mallet, solid brass head.
Diameter 1½″ (38mm)
Length 7″ (178mm)
Weight 15 oz. (420g.)



NEEDLE HOLDERS

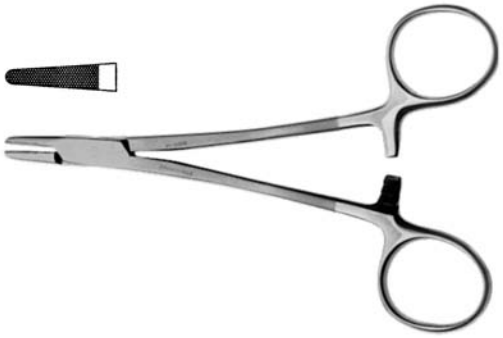
64-1000 ADSON Dural Needle Holder, fenestrated jaws.
Length 7¼″ (181mm)



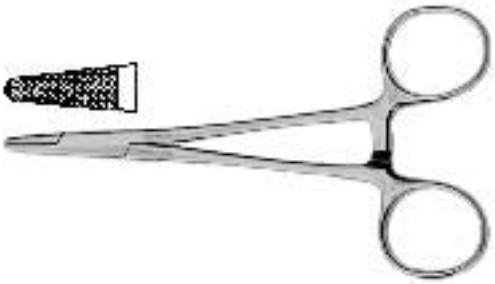
NEEDLE HOLDERS



64-6502	BARRAQUER Needle Holder, straight, with catch.		
	Tip width		1mm
	Length	6″	(150mm)



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)



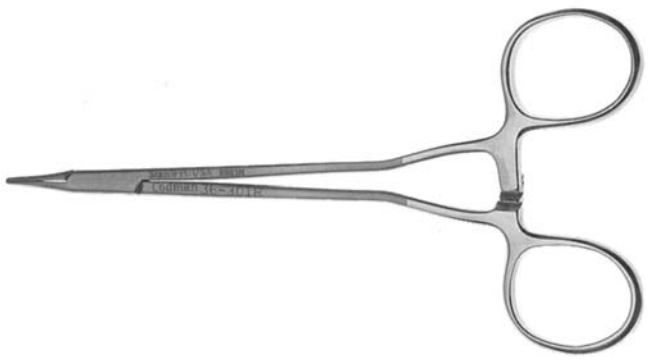
	CASTROVIEJO CLASSIC PLUS® Needle Holders, with catch, tungsten carbide jaw inserts.		
36-1000	Length	5½″	(140mm)
36-1002	Length	7″	(178mm)
36-1001	Length	8½″	(216mm)



	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)

CLASSIC PLUS I.M.A. Needle Holder

36-3018	Straight	Length 6″	(152mm)
36-3019	Straight	Length 7″	(178mm)



37-4029 CODMAN Total Occlusion Needle Holder
WEBSTER Needle Holder, smooth jaw, tungsten carbide inserts.
Length 4¾″ (12.1cm)



32-3680 COOLEY Needle Holder, serrated jaws, tungsten carbide insert
Length 8″ (20.3cm)



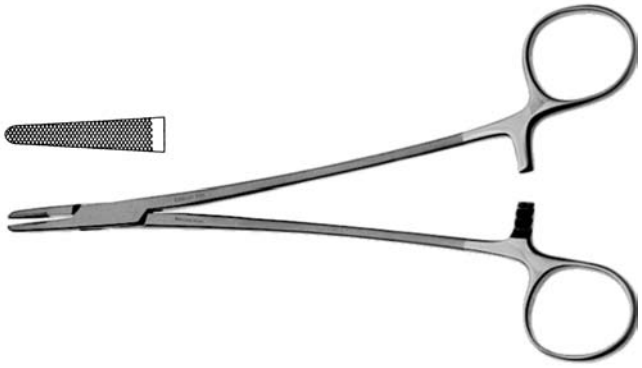
30-8002 COMBINATION Needle Holder and Forceps
Length 5½″ (140mm)



NEEDLE HOLDERS



32-3685	CRILE-WOOD Needle Holder, tungsten carbide insert		
	Length	14″	(35.6cm)



	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)



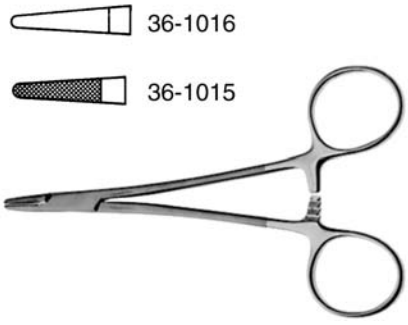
36-1010	DERF CLASSIC PLUS® Needle Holder, tungsten carbide jaw inserts.		
	Length	5″	(127mm)

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.



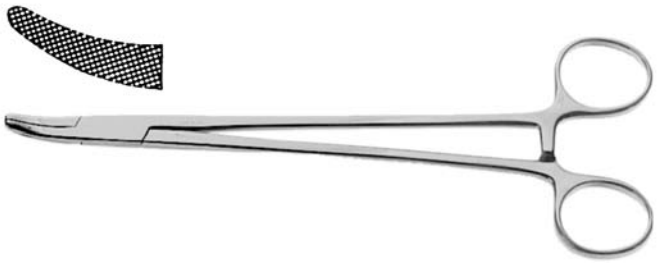
64-6558 HALSEY Needle Holder, smooth jaws.
Length 5″ (127mm)



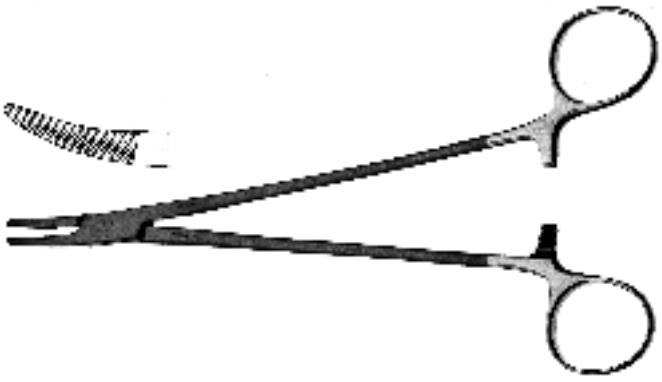
32-3687 HEANEY Needle Holder, Curved, Serrated
Length 14″ (35.6cm)



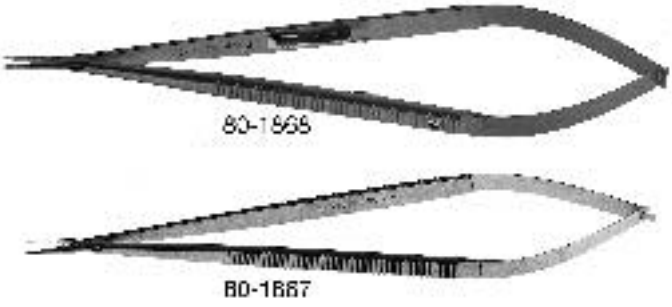
NEEDLE HOLDERS



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



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



	JACOBSON Needle Holders, titanium		
	Smooth jaws		
	With catch	Length	
80-1866	Straight	7″	(178mm)
80-1868	Straight	8½″	(216mm)
	Without catch		
80-1867	Straight	7″	(178mm)
80-1869	Straight	8½″	(216mm)

NEEDLE HOLDERS

JULIAN Needle Holder, tungsten carbide insert

	Length	8″	(20.3cm)
32-3683	Straight		
32-3684	Curved		



JULIAN CLASSIC PLUS®
Needle Holders, tungsten carbide jaw inserts.

	Length	8¼″	(210mm)
36-3042	Straight		
36-3043	Curved		



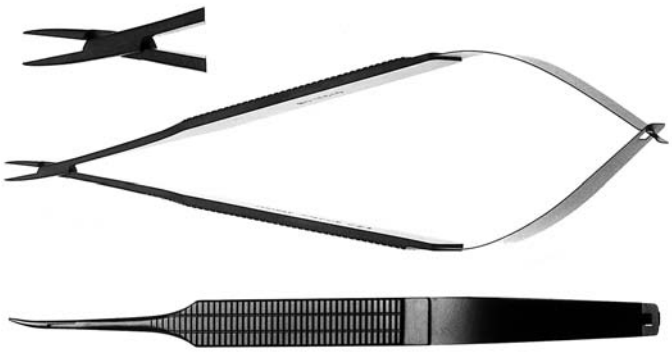
MAGNAFREE™ MRI Mayo-Hegar Needle Holder, non-magnetic (titanium) for Interventional MRI. MRI safe up to 1.5 Tesla.

65-2414	MRI Mayo-Hegar Needleholder		
	Length	7″	(178mm)



MALIS Needle Holders, titanium.

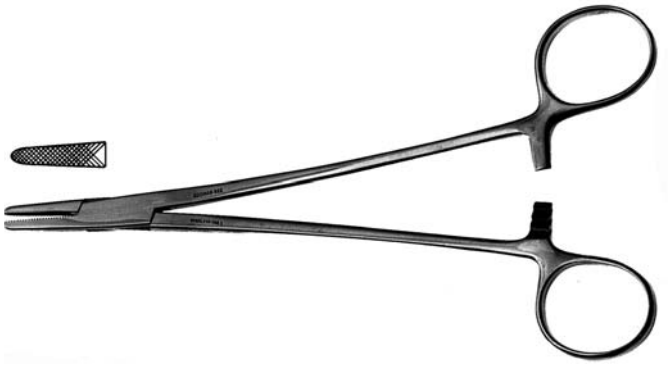
	Length	6¾″	(171mm)
80-1510	Straight tip	Tip width	.5mm
80-1511	Curved tip	Tip width	.5mm
80-1514	Fine, straight tip	Tip width	.5mm



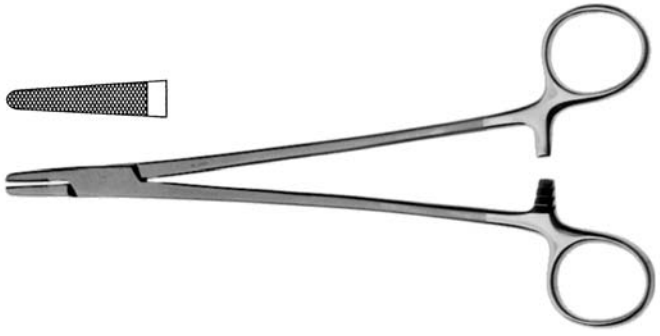
NEEDLE HOLDERS



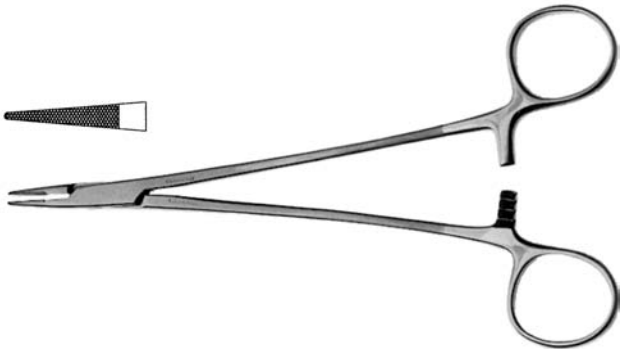
32-3686	MAYO-HEGAR Needle Holder, tungsten carbide insert		
	Length	14″	(35.6cm)



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



	MAYO-HEGAR CLASSIC PLUS® Needle Holders, tungsten carbide jaw inserts.		
36-2015	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)



	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)



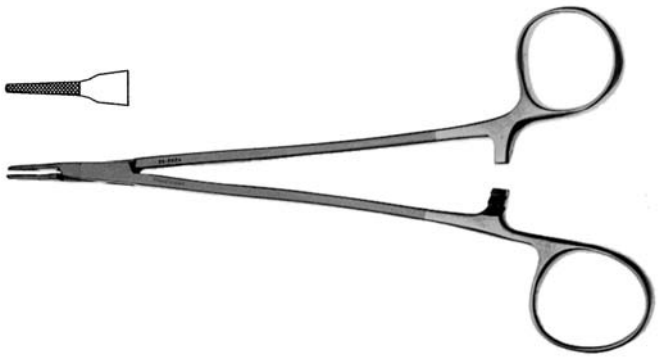
	RHOTON Needle Holders, titanium.		
	Length	7″	(178mm)
80-1725	Curved fine	Tip width	.5mm
80-1726	Straight	Tip width	.9mm
80-1727	Curved	Tip width	.9mm



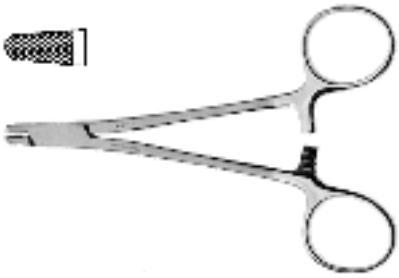


	ROGERS CLASSIC PLUS® Needle Holders, tungsten carbide jaw inserts, curved jaws.		
36-4012	Length	8″	(203mm)
36-4011	Length	10½″	(267mm)

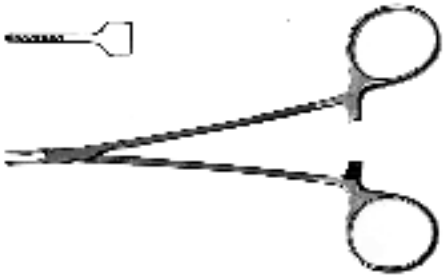
36-2024	RUBIO CLASSIC PLUS® Needle Holder, tungsten carbide jaw inserts, serrated jaw, offset handles. Tip 1.14mm.		
	Length	7⅝″	(194mm)



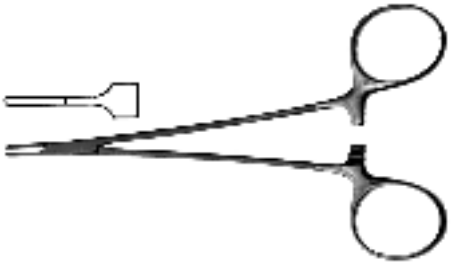
NEEDLE HOLDERS



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



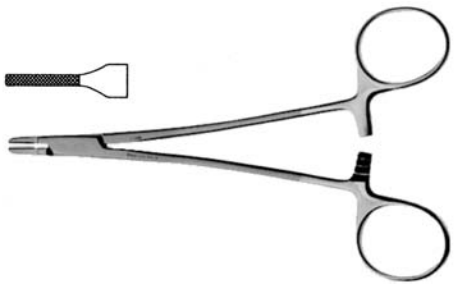
	RYDER CLASSIC PLUS® Needle Holders tungsten carbide jaw inserts.		
	Serrated Jaw		
36-3023	Jaw width		(1mm)
	Total length	5″	(121mm)
36-3014	Jaw width		(1mm)
	Total length	6″	(152mm)
36-3012	Jaw width		(1mm)
	Total length	7″	(178mm)
36-3015	Jaw width		(1mm)
	Total length	8″	(203mm)
36-3013	Jaw width		(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)



SAROT CLASSIC PLUS® Needle Holders, tungsten carbide jaw inserts.

36-3020	Length	7″	(178mm)
36-3021	Length	10″	(254mm)



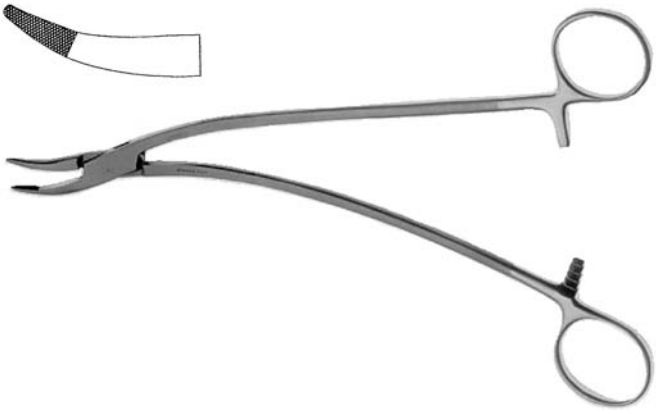
36-2025	STERNAL CLASSIC PLUS® Needle Holder and Wire Twister, tungsten carbide jaw inserts.		
	Length	7″	(178mm)



NEEDLE HOLDERS



32-3682 STRATTE Needle Holder, Double Bend, Curved
Length 9″ (22.9cm)



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



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

PATTIES

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
80-1406	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



PENS, MARKING

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



CODMAN Surgical Marker, gentian violet dye, sterile, disposable, with 6″ ruler, 36 per case.

43-1032 Micro tip



PLIERS

32-3340 Flat Nose Pliers, Serrated Jaws
Length 5½″ (14.0cm)



PLIERS



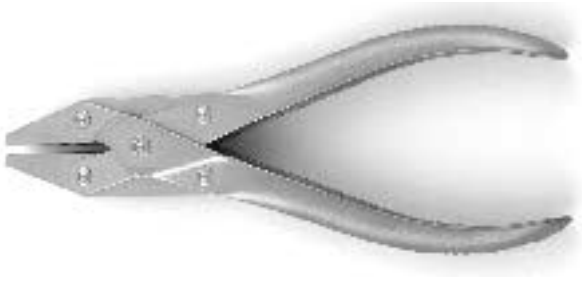
32-3337 Heavy Duty Locking Plier
Length 8″ (20.3cm)
Tip Width 0.9cm



32-3339 NEEDLE NOSE Pliers
Length 5½″ (14.0cm)



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



32-3336 Parallel Plier, Slip Joint, (Max Opening 13mm)
Length 7¼″ (18.5cm)
Tip Width 1.0cm

PLIERS

37-4102	PLIERS		
	Length	6½″	(17cm)



32-3335	Utility Plier, Slip Joint		
	Length	7¾″	(19.7cm)
	Tip Width	1.0cm	



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)

PUNCHES



	KARP Aortic Punches		
	Total Length	6⅛″	(156mm)
51-8000	Bite		(4mm)

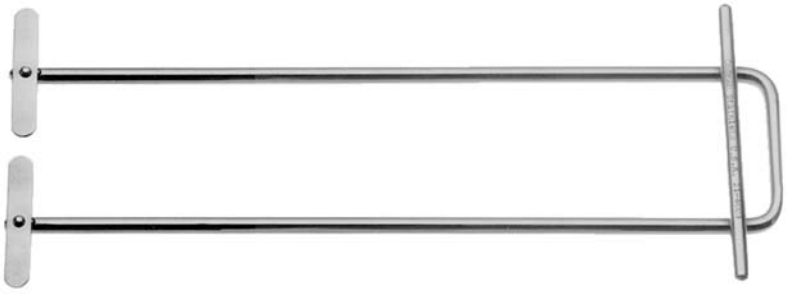


51-8006	SWEET Sternal Punch, improved model with hook to carry suture back through hole.		
	Length	9½″	(241mm)

RACKS, HOLDERS, INSTRUMENT STERILIZING

28-4008	BUNTS Forceps Holder, one dozen per package.		
	Length	3⅞″	(98mm)





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

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



	WEINSTEIN Rack, Sterilization, for Ring Handle Forceps
	Dimensions
32-3345	12″ (30.5cm) × 3″ (7.6cm)
32-3346	5⅞″ (15cm) × 3⅛″ (8cm)
32-3347	7⅞″ (20cm) × 3⅛″ (8cm)
32-3348	9⅞″ (25cm) × 3⅛″ (8cm)



RACKS, HOLDERS, INSTRUMENT STERILIZING



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

RETRACTORS, ABDOMINAL



50-4500	BALFOUR Abdominal Retractor, self-retaining with fixed lateral fenestrated 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)

50-4501 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, 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	1¾″	(44mm)
Lateral blade depth	2½″	(64mm)
Lateral blade width	1¾″	(44mm)
Lateral blade depth	3⅜″	(86mm)
Center blade width	2½″	(64mm)
Center blade depth	2½″	(64mm)
Total opening	7⅝″	(194mm)

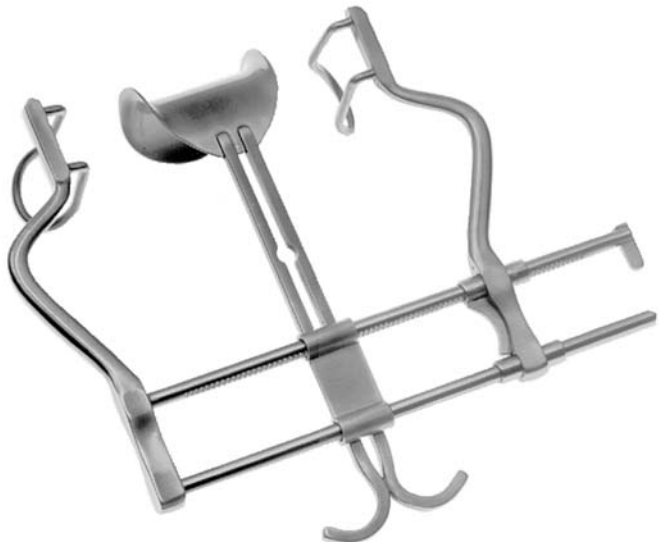


50-4509 BALFOUR Abdominal Retractor, self-retaining with trigger ratchet. Includes two pair of detachable lateral fenestrated blades and one center blade.

Lateral blade width	1¾″	(44mm)
Lateral blade depth	2½″	(64mm)
Lateral blade width	1¾″	(44mm)
Lateral blade depth	3½″	(89mm)
Center blade width	3¼″	(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)





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	3¼″	(83mm)
Center blades		
Width	3¼″	(83mm)
Depth	2¼″	(57mm)
Width	2½″	(63mm)
Depth	2½″	(63mm)

RETRACTORS, ABDOMINAL



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)



32-3635 DEAVER Retractor

Blade Length	2½″ (6.4cm)
Handle Length	14½″ (36.8cm)



DEAVER Retractors, ring-grip handle.

	Length	12″	(305mm)
50-4316	No. 1 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)



DEAVER Retractors, standard handle.

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



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)



HARRINGTON Splanchnic Retractors

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

RETRACTORS, ABDOMINAL



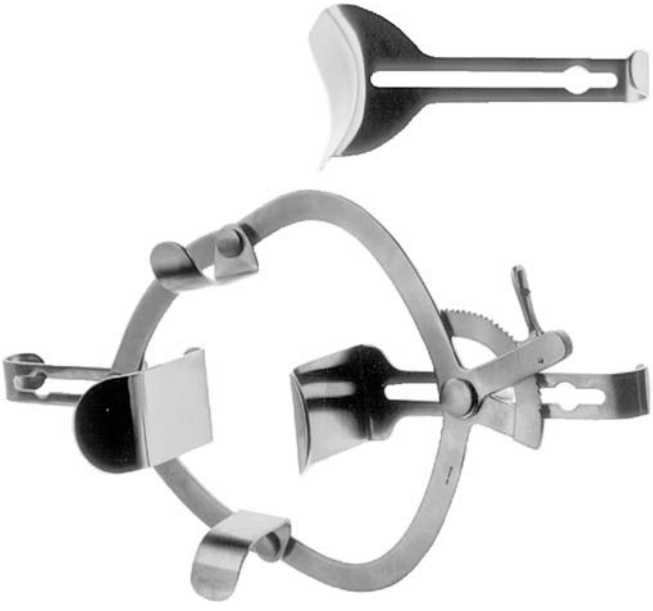
KELLY Retractors, standard handle.

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)



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)



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	1¾″	(43mm)
Small blade depth	3¼″	(83mm)
Fixed blade width	1″	(25mm)
Fixed blade depth	2″	(51mm)
Large blade width	3⅜″	(86mm)
Large blade depth	4″	(112mm)
Fixed blade opening	5½″	(140mm)
Large blade opening	6¼″	(159mm)

RETRACTORS, ABDOMINAL

50-4130C RICHARDSON Appendectomy Retractor, standard handle.

Blade width	13/16″	(21mm)
Blade depth	2″	(51mm)
Length	9¼″	(235mm)



50-4131 RICHARDSON Appendectomy Retractor, ring-grip handle.

Blade width	¾″	(19mm)
Blade depth	2″	(51mm)
Length	9¼″	(235mm)



RICHARDSON Retractors, ring-grip handle.

	Length	9½″	(241mm)
50-4123C	Blade width	¾″	(19mm)
	Blade depth	1″	(25mm)
50-4124C	Blade width	1″	(25mm)
	Blade depth	1¼″	(32mm)
50-4125C	Blade width	1½″	(38mm)
	Blade depth	1½″	(38mm)



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)



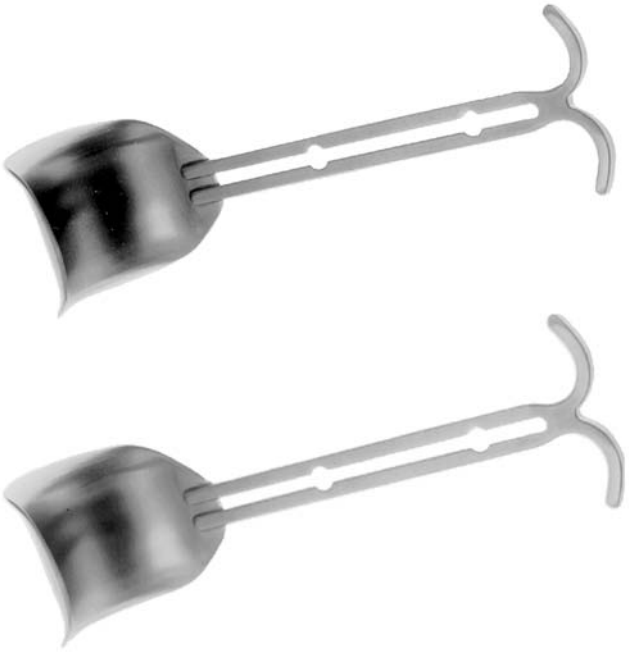
RETRACTORS, ABDOMINAL



50-4135C RICHARDSON-EASTMAN Retractors, double-ended, set of two.

Small		
Blade width	7/8″	(22mm)
Blade depth	1 5/16″	(24mm)
Blade width	1 1/2″	(38mm)
Blade depth	1 5/8″	(41mm)
Length	10″	(254mm)
Large		
Blade width	1 3/4″	(44mm)
Blade depth	2 1/2″	(64mm)
Blade width	1 3/16″	(30mm)
Blade depth	1 3/16″	(30mm)
Length	10 1/2″	(267mm)

RETRACTORS, ABDOMINAL, BLADE



BALFOUR Center Blades, supra-pubic.

50-4521	Width	2 3/4″	(70mm)
	Depth	2 3/4″	(70mm)
	Length	9 1/2″	(241mm)
50-4522	Width	3 1/4″	(82mm)
	Depth	2 3/4″	(70mm)
	Length	9 3/4″	(248mm)

50-4516 BALFOUR Center Blade, standard.

Width	3 1/2″	(89mm)
Depth	1 3/4″	(45mm)
Length	9 3/4″	(248mm)

RETRACTORS, ABDOMINAL, BLADE

BALFOUR Fourth Arm Attachment, without blade.

	Length	12″	(305mm)
50-4526	Left		
50-4527	Right		



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

50-4504	Blade depth	2½″	(64mm)
50-4505	Blade depth	3½″	(89mm)
50-4506	Blade depth	4″	(102mm)



50-4524	HORGAN Malleable Center Blade		
	Blade width	2″	(51mm)
	Blade length	7¾″	(197mm)
	Length	14¾″	(375mm)



RETRACTORS, BOOKWALTER, OBESE PATIENT



BW1046BRT	BOOKWALTER Obese Patient Accessories [18″ Table Post] (for obese patients) Kit Includes:
BW0144005	BOOKWALTER 18″ Table Post
BW1043016	BOOKWALTER 2″x10″ Malleable Blade
BW1043029	BOOKWALTER 3″x10″ Malleable Blade
BW1045069	BOOKWALTER 4″x8″ Malleable Blade
BW1045000	BOOKWALTER 2″x8″ Kelly Blade
BW1271017	BOOKWALTER 3½″x2¾″ Balfour Blade
BW1045176	BOOKWALTER 3½″x10″ Harrington Blade
BW0338014	BOOKWALTER Ratchet Extender
BW0338015	BOOKWALTER Twister Ratchet

See the Bookwalter Section of this catalog for a complete listing of our Bookwalter Products



BW1045BKIT	BOOKWALTER Obese Patient RETRACTOR SYSTEM [24″ Table Post] (for obese patients) Kit Includes:
BW0144003	BOOKWALTER 24″ Table Post
BW1043016	BOOKWALTER 2″x10″ Malleable Blade
BW1043029	BOOKWALTER 3″x10″ Malleable Blade
BW1045069	BOOKWALTER 4″x8″ Malleable Blade
BW1045000	BOOKWALTER 2″x8″ Kelly Blade
BW1271017	BOOKWALTER 3½″x2¾″ Balfour Blade
BW1045176	BOOKWALTER 3½″x10″ Harrington Blade
BW0338014	BOOKWALTER Ratchet Extender
BW0338015	BOOKWALTER Twister Ratchet
50-4552	Horizontal Bar
50-4554	Post Coupling
50-4557	Medium Oval Ring
50-4568	2″X3″ Kelly Blade
50-4569	2″X4″ Kelly Blade
50-4580	Tilt Rachet Mechanism [6ea.]

See the Bookwalter Section of this catalog for a complete listing of our Bookwalter Products

RETRACTORS, BOOKWALTER, OBESE PATIENT

BW1045BRT	BOOKWALTER Obese Patient Accessories [24″ Table Post] (for obese patients) Kit Includes:
BW0144003	BOOKWALTER 24″ Table Post
BW1043016	BOOKWALTER 2″x10″ Malleable Blade
BW1043029	BOOKWALTER 3″x10″ Malleable Blade
BW1045069	BOOKWALTER 4″x8″ Malleable Blade
BW1045000	BOOKWALTER 2″x8″ Kelly Blade
BW1271017	BOOKWALTER 3½″x2¾″ Balfour Blade
BW1045176	BOOKWALTER 3½″x10″ Harrington Blade
BW0338014	BOOKWALTER Ratchet Extender
BW0338015	BOOKWALTER Twister Ratchet



See the Bookwalter Section of this catalog for a complete listing of our Bookwalter Products

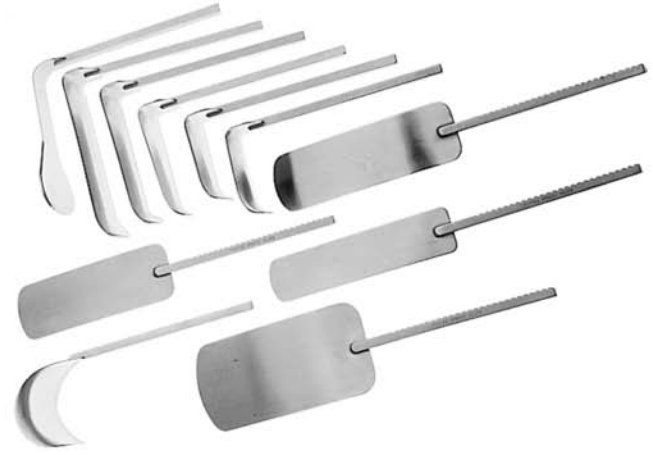
BW1046BKIT	BOOKWALTER™ Obese Patient RETRACTOR SYSTEM [18″ Table Post] (for obese patients) Kit Includes:
BW0144005	BOOKWALTER 18″ Table Post
BW1043016	BOOKWALTER 2″x10″ Malleable Blade
BW1043029	BOOKWALTER 3″x10″ Malleable Blade
BW1045069	BOOKWALTER 4″x8″ Malleable Blade
BW1045000	BOOKWALTER 2″x8″ Kelly Blade
BW1271017	BOOKWALTER 3½″x2¾″ Balfour Blade
BW1045176	BOOKWALTER 3½″x10″ Harrington Blade
BW0338014	BOOKWALTER Ratchet Extender
BW0338015	BOOKWALTER Twister Ratchet
50-4552	Horizontal Bar
50-4554	Post Coupling
50-4557	Medium Oval Ring
50-4568	2″X3″ Kelly Blade
50-4569	2″X4″ Kelly Blade
50-4580	Tilt Rachet Mechanism [6ea.]



See the Bookwalter Section of this catalog for a complete listing of our Bookwalter Products

RETRACTORS, BOOKWALTER, BASIC





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 Storage, BOOKWALTER II)

RETRACTORS, BOOKWALTER, BLADES/ACCESSORIES

50-4576 BOOKWALTER-BALFOUR Retractor Blade

Width	2⅝″	(67mm)
Depth	3″	(76mm)



50-4577 BOOKWALTER GELPI Point Retractor Blade



50-4566 BOOKWALTER-HARRINGTON Retractor Blade

Width	2½″	(63mm)
Depth	5⅝″	(143mm)



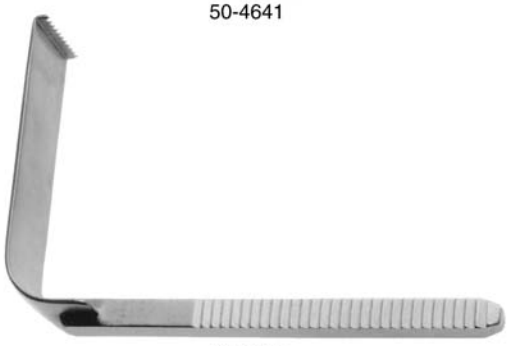
RETRACTORS, BOOKWALTER, BLADES/ACCESSORIES



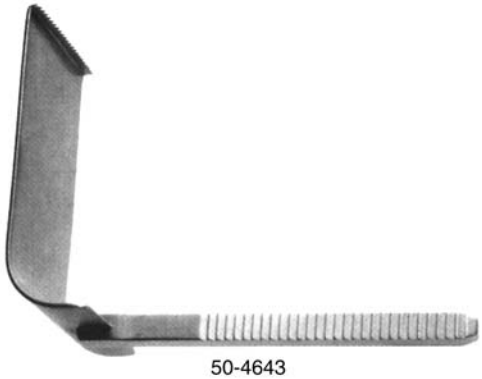
	BOOKWALTER-KELLY Retractor Blades		
50-4574	KELLY Blade	1″ x 1½″	(25mm x 38mm)
50-4563	Modified		
	Width	2″	(51mm)
	Depth	2″	(51mm)
50-4575	KELLY Blade	1″ x 2½″	(25mm x 63mm)
50-4565	Modified		
	Width	2″	(51mm)
	Depth	1½″	(38mm)
50-4572	Standard		
	Width	2″	(51mm)
	Depth	2½″	(64mm)
50-4568	Modified		
	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)



50-4641



50-4642



50-4643

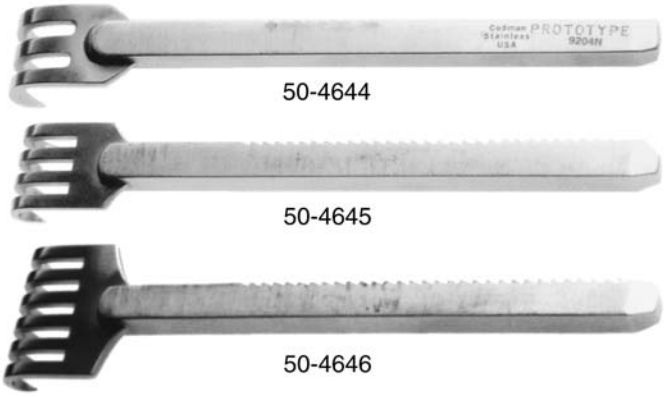
	BOOKWALTER-MEYERDING Retractor Blades		
		Width	Length
50-4641	Small	⅔″ (17mm)	2⅓″ (60mm)
50-4642	Medium	1″ (25mm)	3⅓″ (85mm)
50-4643	Large	2″ (50mm)	3¾″ (95mm)

RETRACTORS, BOOKWALTER, BLADES/ACCESSORIES

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



	BOOKWALTER Rake Retractors		
		Depth	Width
50-4644	3 Prongs	¾″ (19mm)	⅔″ (17mm)
50-4645	4 Prongs	⅓″ (8.4mm)	¾″ (19mm)
50-4646	6 Prongs	⅓″ (8.4mm)	1″ (25mm)



	BOOKWALTER Rectal Blades		
	Width	⅞″	
50-4585	Small		
	Length	2⅞″	(73mm)
50-4586	Large		
	Length	3⅞″	(98mm)



RETRACTORS, BOOKWALTER, BLADES/ACCESSORIES





	BOOKWALTER Retractor Blades, Disposable, Thin Radiolucent Blade
50-4650	1″ × 4″
50-4651	2″ × 4″
50-4652	2½″ × 4″
50-4653	1″ × 5″
50-4654	2″ × 5″
50-4655	2½″ × 5″
50-4656	1″ × 6″
50-4657	2″ × 6″
50-4658	2½″ × 6″
50-4659	1″ × 7″
50-4660	2″ × 7″
50-4661	2½″ × 7″
50-4662	1″ × 8″
50-4663	2″ × 8″
50-4664	2½″ × 8″
50-4665	1″ × 10″
50-4666	2″ × 10″
50-4667	2½″ × 10″
50-4677	BOOKWALTER Radiolucent Blade Holder

See BOOKWALTER Radiolucent Thin Blade Holder on Page BW-9



	BOOKWALTER Retractor Blades, Malleable with Lip	
	Width	Length
50-4694	1″ (25mm)	4″ (102mm)
50-4672	1½″ (38mm)	6″ (152mm)
50-4673	2″ (51mm)	6″ (152mm)
50-4674	3″ (76mm)	6″ (152mm)

RETRACTORS, BOOKWALTER, BLADES/ACCESSORIES

BOOKWALTER Retractor Blade, Super Malleable with Lip

	Width	Length
50-4691	1″ (25mm)	4″ (102mm)
50-4669	1½″ (38mm)	6″ (152mm)
50-4670	2″ (51mm)	6″ (152mm)
50-4671	3″ (76mm)	6″ (152mm)



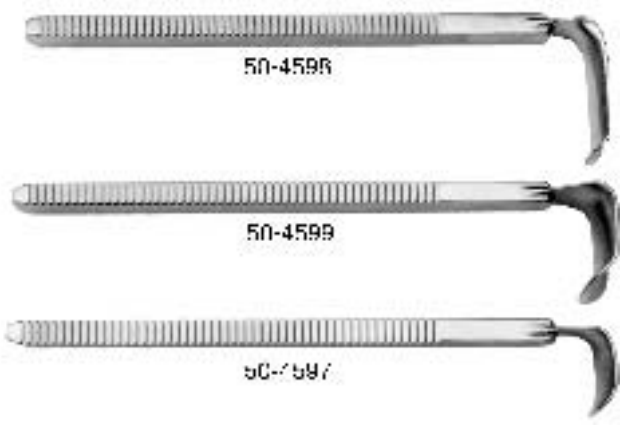


BOOKWALTER OPTI-LENGTH Retractor Blade, Malleable, For use w BW Retractor

Length 11″ (27.9cm)

	Blade/Jaw Width
67-7499	3″
67-7500	4″
67-7502	1½″
67-7504	2″

50-4596	BOOKWALTER RICHARDSON Blade Set
50-4597	BOOKWALTER RICHARDSON Blade ¾″ x 1″
50-4598	BOOKWALTER RICHARDSON Blade ¾″ x 2″
50-4599	BOOKWALTER RICHARDSON Blade 1″ x 1¼″



RETRACTORS, BOOKWALTER, BLADES/ACCESSORIES



MAGRINA-BOOKWALTER Vaginal Retractor Deaver Blades

50-4592	Small	Width	1″	(25mm)
		Length	3½″	(89mm)
50-4593	Large	Width	1″	(25mm)
		Length	5″	(127mm)



50-4591 Vaginal Retractor Lateral Blade
Used with MAGRINA-BOOKWALTER Vaginal Retractor kit 50-4547.
45° angle

Width	1″	(25mm)
Length	3″	(76mm)



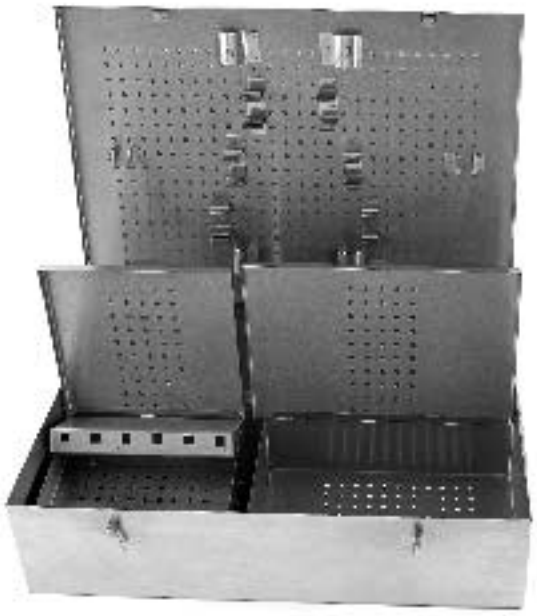
50-4594 Vaginal Retractor Posterior Blade

Width	1″	(25mm)
Length	4½″	(114mm)

RETRACTORS, BOOKWALTER, BLADES/ACCESSORIES

50-4647 BOOKWALTER Spinal Retractor storage/sterilizing case

Length	19½″	(500mm)
Width	13½″	(340mm)
Depth	4″	(100mm)



50-4677 BOOKWALTER Radiolucent Thin Blade Holder

See BOOKWALTER Radiolucent Thin Blades on Page BW-6



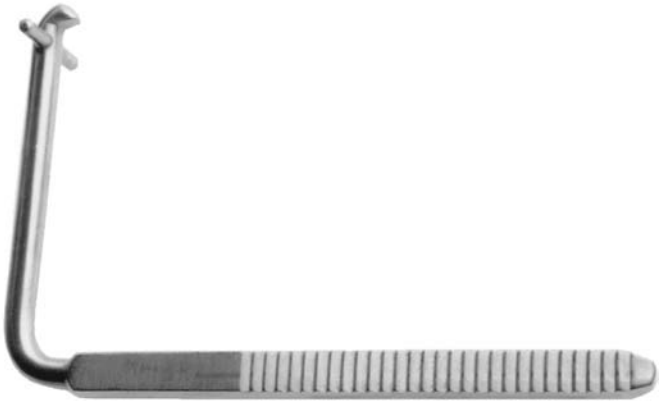


Blades sold separately.

RETRACTORS, BOOKWALTER, BLADES/ACCESSORIES



50-4639



50-4640

BOOKWALTER-SCOVILLE Hooks

		Length
50-4639	Small	2″ (50mm)
50-4640	Large	3¼″ (83mm)



50-4552 BOOKWALTER Horizontal Bars

Length	14¼″	(365mm)
Diameter	1″	(25mm)



50-4582 BOOKWALTER Horizontal Flex Bar 360° rotation



50-4675 BOOKWALTER IMA, T Crossbar

For use with the BOOKWALTER IMA Kit 50-4600.
See Page BW-17.

RETRACTORS, BOOKWALTER, BLADES/ACCESSORIES

50-4553 BOOKWALTER Vertical Extension Bar
Length 12″ (305mm)
Diameter 1″ (25mm)

Must be used with 50-4554 post coupling



50-4678 VIOLI Ironman Horizontal Ring Holder



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



50-4579 BOOKWALTER Standard Ratchet Mechanism
50-4580 BOOKWALTER Tilting Ratchet Mechanism
50-4589 BOOKWALTER Rotilt Ratchet Mechanism


50-4579


50-4580


50-4589

SP00144-1 BOOKWALTER Table Post
Length 8″ [20mm]

RETRACTORS, BOOKWALTER, BLADES/ACCESSORIES



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



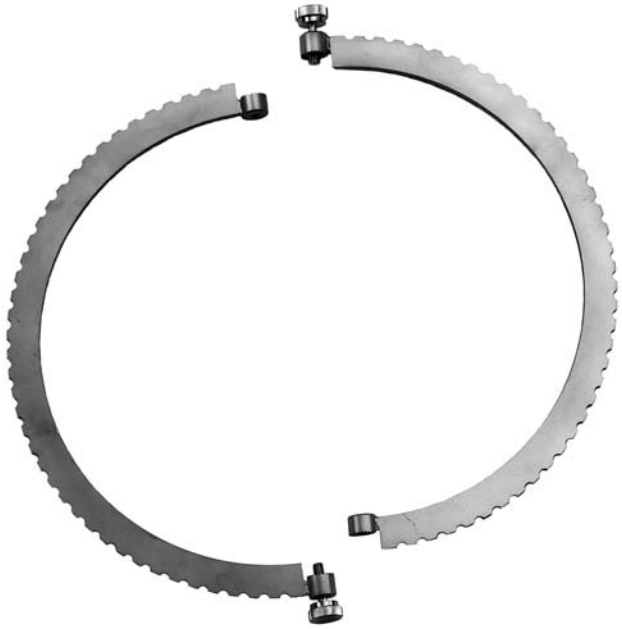
50-4681 VIOLI Gooseneck Table Post for 1″ [25mm] system



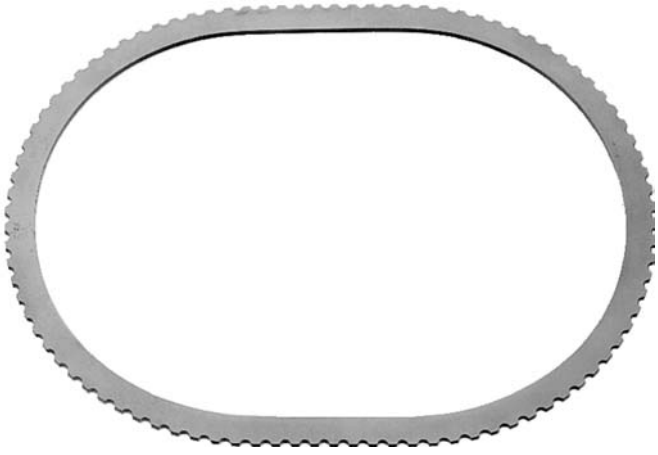
50-4595 BOOKWALTER Eliptical Ring, Segmented Blade 14½″ [368mm] × 15″ [380mm]

RETRACTORS, BOOKWALTER, BLADES/ACCESSORIES

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 Oval Rings		
50-4556	Large		
	Width (I.D.)	12″	(267mm)
	Length (I.D.)	18½″	(470mm)
50-4557	Medium		
	Width (I.D.)	10½″	(267mm)
	Length (I.D.)	14½″	(368mm)
50-4558	Small		
	Width (I.D.)	8″	(203mm)
	Length (I.D.)	12¼″	(311mm)



	BOOKWALTER Pelvic Ring
50-4689	Segmented, Suture
50-4690	Suture



RETRACTORS, BOOKWALTER, BLADES/ACCESSORIES



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



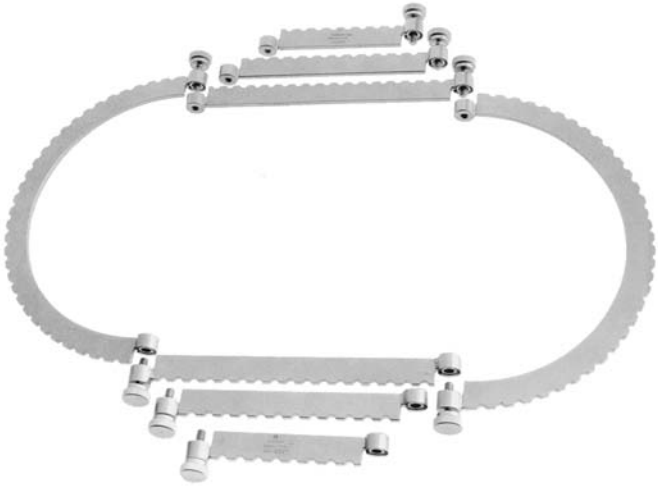
	BOOKWALTER Segmented Ring
50-4587	Small I.D. 8½″ x 14″ (216mm x 356mm) Consisting of (1) 8½″ Round Ring and (2) 4″ straight segments.
50-4583	Medium I.D. 10½″ x 19½″ (266mm x 495mm) Consisting of (1) 10½″ Round Ring and (2) 8″ straight segments.
50-4588	Large I.D. 12½″ x 19½″ (317mm x 495mm) Consisting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

RETRACTORS, BOOKWALTER, BLADES/ACCESSORIES

	BOOKWALTER Round Suture Ring	
50-4684	Small	9½″ I.D. [240mm]



	BOOKWALTER Spinal Retractor Rings
50-4635	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)



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



RETRACTORS, BOOKWALTER, BLADES/ACCESSORIES





	BOOKWALTER WISHBOOK Adjustable Frame		
50-4648	Frame	Length	15.8″
	Cross Arm	Length	18.15″
50-4649	BOOKWALTER WISHBOOK Frame, Adjustable, Small		
	Frame	Length	12.3″
	Cross arm	Length	18.15″

RETRACTORS, BOOKWALTER, KITS

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 14¼″ length	(25mm) (360mm)
50-4554	Post Coupling	1″ diameter	(25mm)
50-4581	Table Post	1″ diameter	(25mm)
50-4601	IMA Cross Bar	12″ length	(300mm)
50-4602	IMA Ratchet Mechanism (2 each)		
50-4603	IMA Retractor Blade (2 each)	12″ length	(300mm)
50-4604	IMA Storage Case		

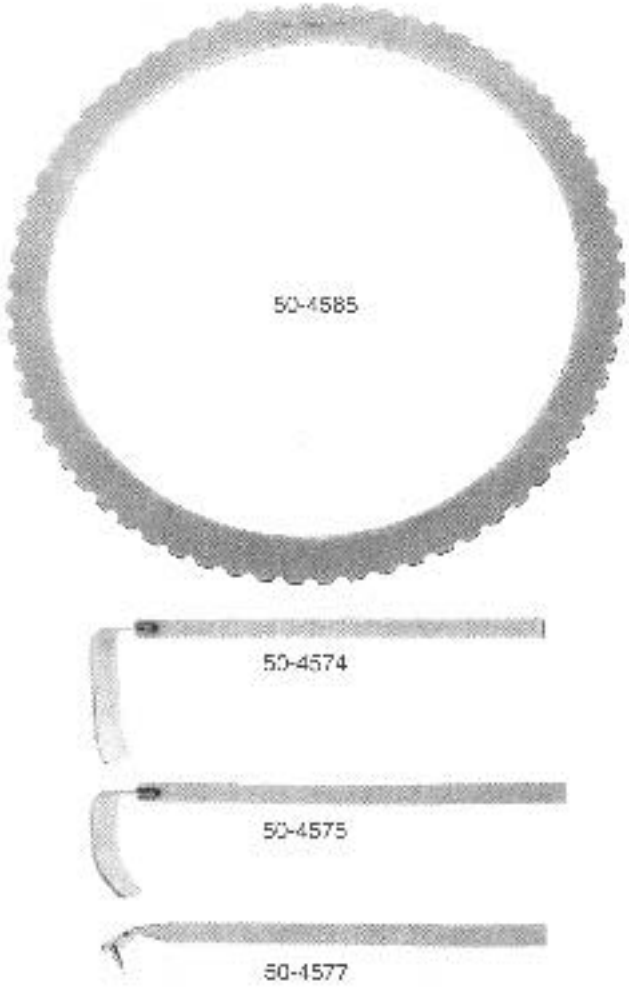
See the Bookwalter Section of this catalog for a complete listing of our Bookwalter Products



RETRACTORS, BOOKWALTER, KITS



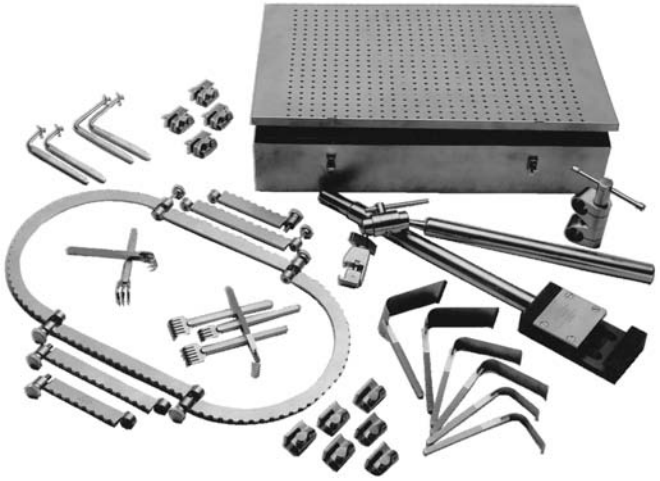
50-4546	BOOKWALTER Rectal Kit includes:
50-4584	BOOKWALTER Small Round Ring 8½″ I.D. (216mm)
50-4585	BOOKWATER Rectal Blades small (2 ea.) 3″ x 7″ (76mm x 178mm)
50-4586	BOOKWATER Rectal Blades large (2 ea.) 4″ x 6″ (101mm x 152mm)



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, BOOKWALTER, KITS

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	



See the Bookwalter Section of this catalog for a complete listing of our Bookwalter Products

RETRACTORS, BRAIN

50-1060	CUSHING Decompression Retractor, fenestrated blade.		
	Width	½″	(13mm)
	Depth	⅞″	(22mm)
	Length	8⅜″	(213mm)



RETRACTORS, BRAIN



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	3″	(102mm)
	Blade width	3/8″	(10mm)
	Blade width	9/16″	(14mm)
	Blade width	5/8″	(16mm)
	Blade width	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.		

RETRACTORS, MAGRINA-BOOKWALTER, 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)



RETRACTORS, CEREBELLAR



	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)



50-1362	CODMAN ADSON Retractor		
	Length	9½″	(240mm)
	Total opening	5″	(120mm)
	Shank angle 65°		
	3 x 3 sharp prongs		

RETRACTORS, DOUBLE ENDED



50-4071 U.S. ARMY Retractors, double-ended, set of two.

Length	8 5/16″	(211mm)
Blade width	1 3/4″	(44mm)
Blade depth	9/16″	(14mm)
Blade width	1 1/4″	(32mm)
Blade depth	9/16″	(14mm)

RETRACTORS, GENERAL PURPOSE

50-4265 ALM Retractor, self retaining with semi-sharp prongs.

Prong depth	1/8″	(3mm)
Length	3″	(76mm)
Total opening	2″	(51mm)



50-5608 BOLEY Retractor, double-ended.

Blade width	1/2″	(13mm)
Blade depth	1/2″	(13mm)
Blade width	7/16″	(11mm)
Blade depth	7/16″	(11mm)
Length	6 1/4″	(159mm)



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)



RETRACTORS, GENERAL PURPOSE



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)



CRILE Hook Retractor.

37-4038 Single hook

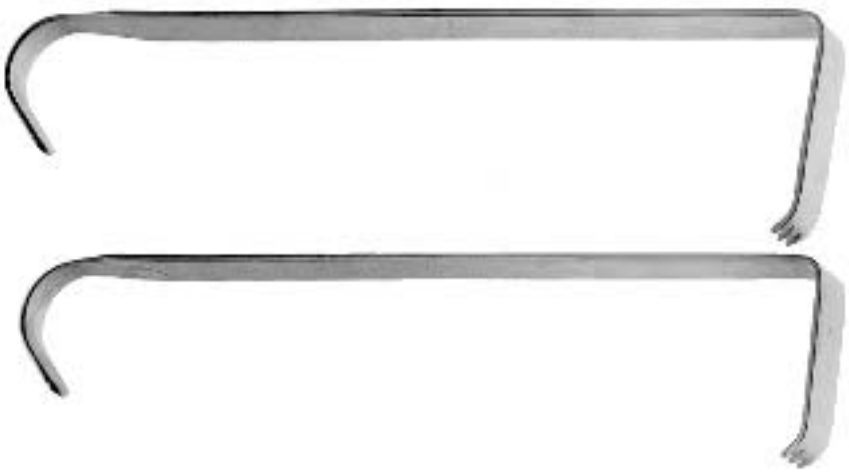
Length	8″	(20.3cm)



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, GENERAL PURPOSE



50-2558C	HIBBS Retractors, double-ended, set of two.		
	Blade width	3/4″	(19mm)
	Blade depth	2″	(51mm)
	Length	9 1/4″	(235mm)

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



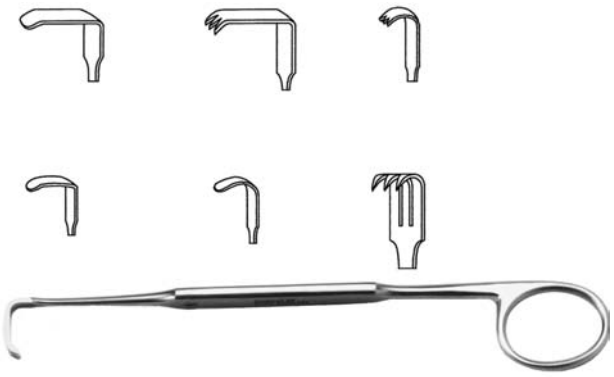
	LANGENBECK Retractors		
	Length	8 1/4″	(210mm)
50-4255	Blade width	3/8″	(10mm)
	Blade depth	1 5/8″	(41mm)
50-4256	Blade width	1/2″	(13mm)
	Blade depth	1 5/8″	(41mm)



	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, GENERAL PURPOSE



MEYERDING Finger Retractors

		Length	7″	(178mm)
50-1070	A	Blade width	¼″	(6mm)
		Blade depth	1 1/16″	(17mm)
50-1071	B	Blade width	3/16″	(5mm)
		Blade depth	5/8″	(16mm)
50-1072	C	Blade width	⅛″	(3mm)
		Blade depth	¼″	(6mm)
50-1073	D	Blade width	1/16″	(2mm)
		Blade depth	¼″	(6mm)
50-1074	E	Blade width	⅛″	(3mm)
		Blade depth	¼″	(6mm)
50-1075	F	Blade width	3/8″	(10mm)
		Blade depth	¼″	(6mm)



50-4485 MEYERDING Retractor, double-ended, with skin hook.

Blade width	3/16″	(5mm)
Blade depth	5/8″	(16mm)
Hook depth	3/8″	(10mm)
Length	6 1/4″	(159mm)



MURPHY Retractors

Three prong

	Blade width	½″	(13mm)
	Blade depth	5/16″	(8mm)
	Length	7 3/4″	(197mm)
50-8071	Sharp		

Four prong

	Blade width	1 1/16″	(18mm)
	Blade depth	5/16″	(8mm)
	Length	7 3/4″	(197mm)
50-8072	Sharp		
50-8078	Blunt		

Six prong

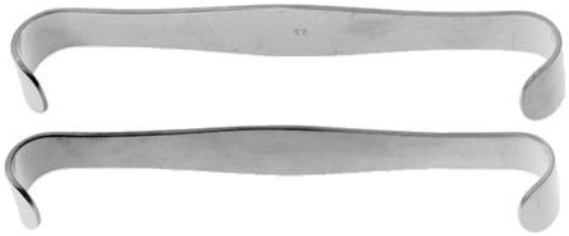
	Blade width	1 1/8″	(29mm)
	Blade depth	5/16″	(8mm)
	Length	7 3/4″	(197mm)
50-8073	Sharp		
50-8079	Blunt		

RETRACTORS, GENERAL PURPOSE



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

	PARKER Retractors, double-ended, set of two.		
50-4090	Blade width	⅝″	(16mm)
	Blade depth	¾″	(19mm)
	Length	5½″	(140mm)
50-4091	Blade width	1″	(25mm)
	Blade depth	1″	(25mm)
	Length	7″	(178mm)



50-2608	RAGNELL Retractor, double-ended.		
	Blade width	⅛″	(3mm)
	Blade depth	¼″	(6mm)
	Blade width	¼″	(6mm)
	Blade depth	⅝″	(16mm)
	Length	6″	(152mm)



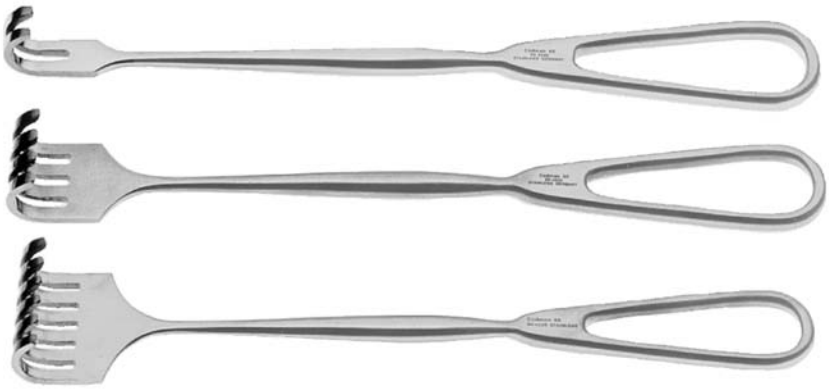


	RIBBON Malleable Retractors		
50-5637	Blade width	½″	(13mm)
	Length	8″	(203mm)
50-5638	Blade width	⅝″	(16mm)
	Length	8″	(203mm)
50-5639	Blade width	¾″	(19mm)
	Length	8″	(203mm)
50-4210	Blade width	1″	(25mm)
	Length	13″	(330mm)
50-4212	Blade width	1½″	(38mm)
	Length	13″	(330mm)
50-4214	Blade width	2″	(51mm)
	Length	13″	(330mm)

RETRACTORS, GENERAL PURPOSE



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



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

RETRACTORS, GENERAL PURPOSE

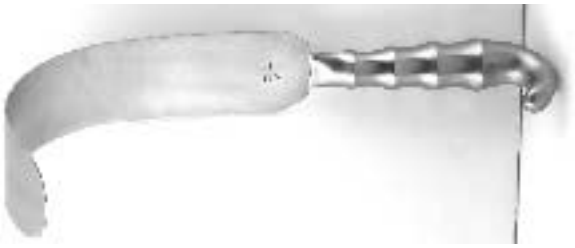
	WEITLANER Retractors, self-retaining, 3x4 prongs.		
	Total opening	2¼″	(57mm)
	Length	5½″	(140mm)
50-1194	Sharp		
50-1195	Blunt		
	Total opening	4″	(102mm)
	Length	6½″	(165mm)
50-1196	Sharp		
50-1197	Blunt		
	Total opening	5″	(127mm)
	Length	7½″	(191mm)
50-1198	Sharp		
50-1199	Blunt		
	Total opening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



	ZALKIND Retractor, Malleable Blade	
	Length	12″
32-3614	Blade Width	2″
32-3615	Blade Width	3″



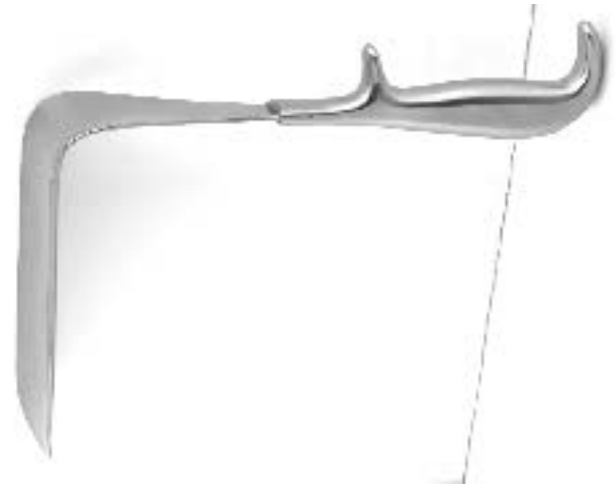
RETRACTORS, HAND HELD



32-3605	HOUSE Retractor, Double Ended		
	Blade Width	.7cm	
	Blade Length	2.0cm	
	Blade Width	.9cm	
	Blade Length	2.5cm	
	Length	6″	(15.2cm)



32-3660	SOFIELD Retractor, Double Ended, Set of 6 with Clip		
		Blade Lengths	Handle Length
32-3661	Blade	6.3cm × 1.3cm	8¼″ (22.3cm)
32-3662	Blade	7cm × 1.3cm	8⅛″ (21.3cm)
32-3664	Blade	8.9cm × 1.6cm	8$\frac{1}{16}$″ (20.7cm)
32-3665	Blade	10.2cm × 1.9cm	8″ (20.1cm)
32-3666	Blade	11.4cm × 1.3cm	7½″ (19.5cm)
32-3667	Clip		5″ (12.8cm)



	TURNER-DOYEN Retractor, 11½″ (29.2cm)			
	Blade Width		Blade Depth	
32-3628	2⅜″	(6.0cm)	5½″	(14.2cm)
32-3629	3″	(7.6cm)	5½″	(14.2cm)
32-3630	3″	(7.6cm)	6½″	(16.5cm)

RETRACTORS, KNEE

32-3631	DOANE KNEE Retractor, Double Ended, Medium		
	Length	2¼″	(5.7cm)
	Width	½″	(1.1cm)
	Depth	2¾″	(7cm)
	Handle Length	6″	(15.2cm)



RETRACTORS, LAMINECTOMY

	BECKMAN-ADSON Laminectomy Retractors, self-retaining with hinged arms.		
50-1160	Four prong, blunt blades		
	Blade width	1″	(25mm)
	Blade depth	1¼″	(32mm)
	Total opening	5″	(127mm)
	Length	12⅛″	(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	1¾″	(44mm)
	Total opening	5½″	(140mm)
	Length	12″	(305mm)



RETRACTORS, LAMINECTOMY



50-1163 BECKMAN-EATON Laminectomy Retractor, self-retaining with hinged arms.
Seven prong blades

Blade width	1¾″	(44mm)
Blade depth	1⅞″	(48mm)
Total opening	5½″	(140mm)
Length	12¾″	(324mm)



CONE Laminectomy Retractors, self-retaining with hinged arms, 3x4 sharp prongs.

50-1167	Length	6⅜″	(162mm)
50-1168	Length	8″	(203mm)



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		

RETRACTORS, LAMINECTOMY

	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)





	MEYERDING Laminectomy Retractors		
50-1065	Blade width	⅝″	(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)

50-1212	POPPEN-GELPI Laminectomy Retractor, self-retaining		
	Total opening	2½″	(64mm)
	Length	5½″	(140mm)



RETRACTORS, LUNG



	ALLISON Lung Retractors		
50-8152	Small		
	Length	10½″	(260mm)
50-8153	Large		
	Length	12½″	(318mm)

RETRACTORS, OBSTETRIC



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

RETRACTORS, PERINEAL



	GELPI Retractor, Pediatric		
	Blade Width	Blade Opening	Total Length
32-3602	.2cm	3.6cm	3″ (9.3cm)
32-3603	.2cm	3.4cm	4⅛″ (11.2cm)
32-3604	.3cm	6.0cm	5½″ (14.0cm)

RETRACTORS, PERINEAL



50-1210	GELPI Perineal Retractor, self-retaining, one by one prong.		
	Total opening	3¾″	(95mm)
	Length	7¼″	(184mm)

RETRACTORS, RECTAL

	HILL-FERGUSON Rectal Retractors		
50-5668	Blade width	7/8″	(22mm)
	Blade depth	2 7/16″	(62mm)
	Length	8¼″	(210mm)
50-5669	Blade width	1 3/16″	(30mm)
	Blade depth	2 7/8″	(73mm)
	Length	8½″	(216mm)





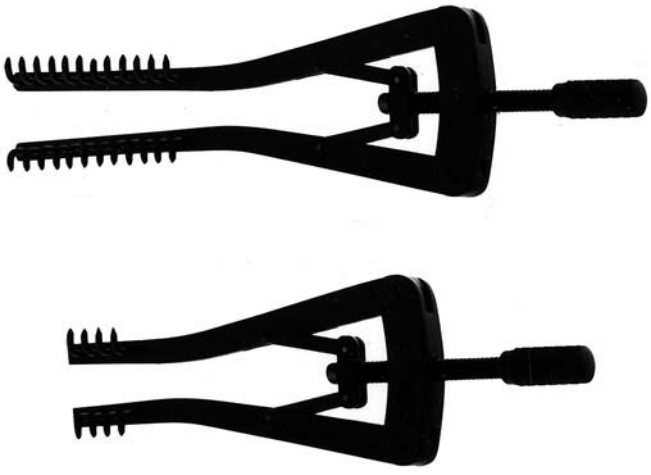
50-5671	SAWYER Rectal Retractor		
	Blade width	1⅛″	(29mm)
	Blade depth	3⅛″	(79mm)
	Length	12″	(305mm)

RETRACTORS, SCAPULAR



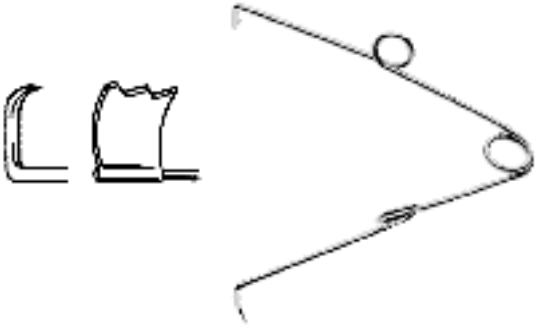
	DAVIDSON Scapular Retractors		
50-8095	Blade width	2″	(51mm)
	Blade depth	3″	(76mm)
	Handle length	6″	(152mm)
50-8096	Blade width	3½″	(89mm)
	Blade depth	3″	(76mm)
	Handle length	6″	(152mm)

RETRACTORS, SKIN



	MICROVASC™ Modified Alm Retractors, black anodized.			
80-1812	4x4 prongs	Length	3″	(76mm)
80-1813	12x12 prongs	Length	3¾″	(95mm)

RETRACTORS, SPRING



	SPRING Retractors, self-retaining.		
50-4350	One prong, sharp		
	Prong length	⅜″	(10mm)
	Length	3⅛″	(79mm)
50-4351	Three prong, semi-sharp blade		
	Blade width	7⁄16″	(11mm)
	Blade depth	9⁄16″	(14mm)
	Length	3¼″	(83mm)

RETRACTORS, THYROID

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)





50-4297 GREENE Thyroid Retractor, fenestrated blade.

Blade width	1 1/16″	(17mm)
Blade depth	1″	(25mm)
Length	8 3/4″	(222mm)

50-4040C LAHEY Thyroid Retractor

Blade width	1/4″	(6mm)
Blade depth	1″	(25mm)
Length	8 1/8″	(206mm)



50-4410 McBURNEY Thyroid Retractor, fenestrated blade.

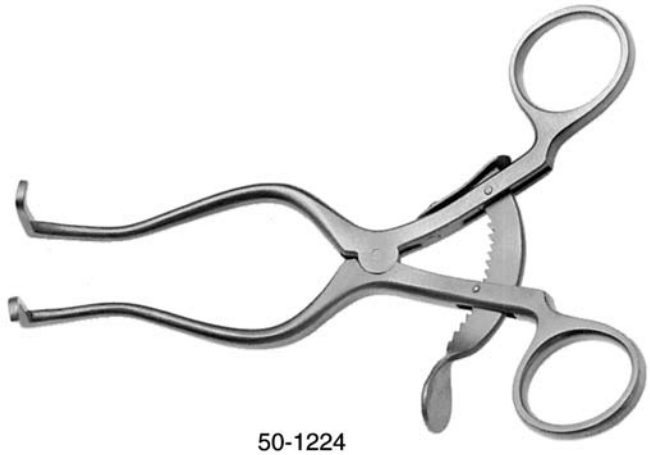
Blade width	3/8″	(10mm)
Blade depth	3/4″	(19mm)
Length	7 3/8″	(187mm)



RETRACTORS, TISSUE



50-1223



50-1224

	CODMAN Tissue Retractors		
	Length	5¼″	(133mm)
	Total opening	2½″	(64mm)
50-1223CO	3x3 blunt prongs		
	Prong width	½″	(13mm)
	Prong depth	⅝″	(16mm)
50-1224CO	1x1 blunt prongs		
	Prong depth	½″	(13mm)

RETRACTORS, VEIN



50-1022	CODMAN-CUSHING Vein Retractor		
	Blade width		9.5mm
	Blade depth		6.4mm
	Length	7¾″	(197mm)



	CUSHING Retractor		
	Jaw	Length	
32-3633	1.0cm	11″	(28.0cm)
32-3634	1.1cm	14″	(35.5cm)

RETRACTORS, VEIN



50-1020	CUSHING Vein Retractor		
	Blade width	½″	(13mm)
	Blade depth	⅜″	(10mm)
	Length	9″	(229mm)

RING, LAPAROTOMY

	Ring, Laparotomy, Welded, 3mm Diameter	
32-3350	1″	(2.5cm)
32-3351	1½″	(3.8cm)
32-3352	2″	(5.1cm)
32-3353	3″	(7.6cm)



SCISSORS, ABDOMINAL

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



SCISSORS, ABDOMINAL



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

SCISSORS, BANDAGE



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

34-1076 CLASSIC FINE SCISSORS, CURVED.
Length 4½″ (114mm)



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



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



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



54-5567 DELICATE Scissors, curved with dissecting end.
Length 4⅞″ (124mm)



SCISSORS, DELICATE



FINE Scissors, sharp/sharp.
Length 4½″ (114mm)

54-1075	Straight
54-1076	Curved

SCISSORS, DISSECTING



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



CLASSIC METZENBAUM Scissors
Blunt/Blunt

	Length 5¾″	(146mm)
34-1020	Straight	
34-1021	Curved	
	Length 7″	(178mm)
34-1027	Curved	



DELICATE Dissecting Scissors
Length 5″ (127mm)

54-5566	Curved



32-3576	DEBAKEY-METZENBAUM Scissor, tungsten carbide edges, straight	
	Length 12¼″	(31.1cm)

32-3578	JORGENSON Dissecting Scissor, Curved Length	8½″	(21.6cm)



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



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



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



SCISSORS, DISSECTING



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

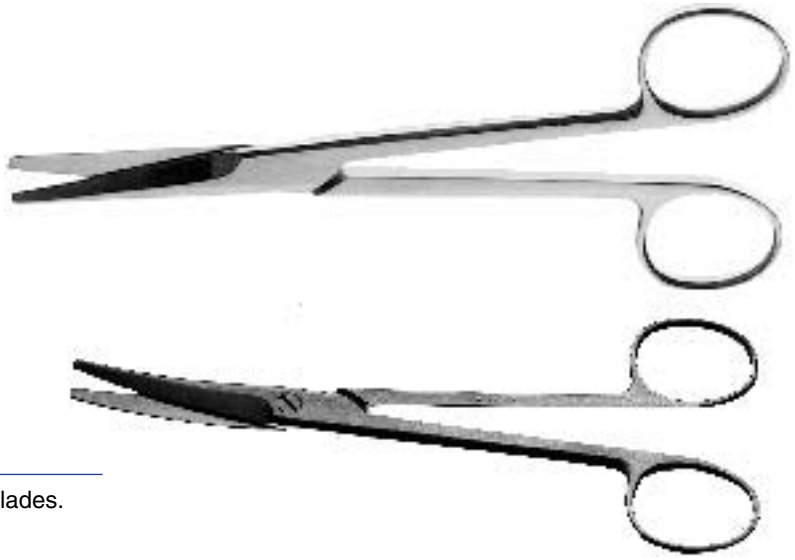
	Straight		
36-5050	Length	5½″	(140mm)
36-5051	Length	6¾″	(171mm)
36-5052	Length	9″	(229mm)
	Curved		
36-5060	Length	5½″	(140mm)
36-5061	Length	6¾″	(171mm)
36-5062	Length	9″	(229mm)



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)

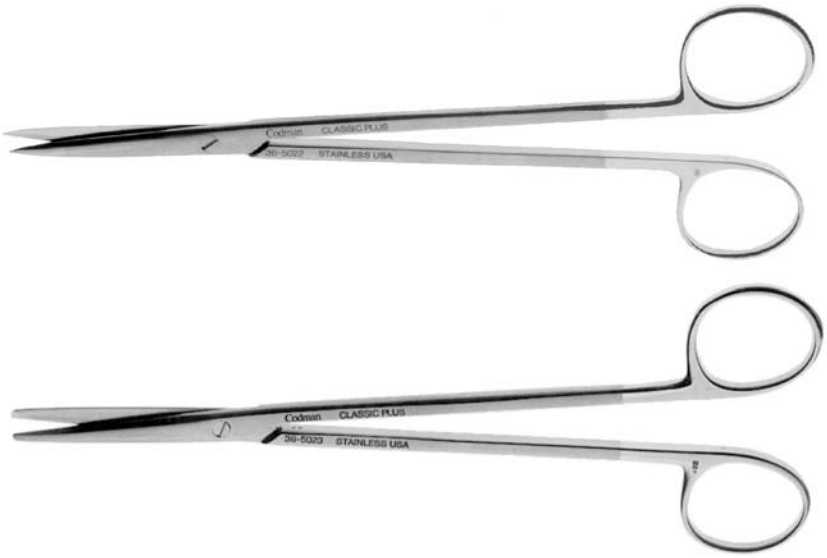
	MAYO-HARRINGTON Scissor		
	Length	14″	(35.6cm)
32-3592	Straight		
32-3593	Curved		



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



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)

SCISSORS, DISSECTING



	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)

32-3577	METZENBAUM Dissecting Scissor, Super-Cut, Curved		
	Length	5¾″	(14.6cm)



	METZENBAUM Scissor		
		Length	
32-3594	Curved	12¼″	(31.1cm)
32-3595	Curved	13⅞″	(35.5cm)
32-3596	Surer Cut,		
	Curved	13⅞″	(35.5cm)



SCISSORS, DISSECTING



	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)



	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

CLASSIC IRIS Scissors, sharp/sharp
Length 4½″ (114mm)

34-6500 Straight
34-6503 Curved



IRIS CLASSIC PLUS® Scissors, sharp/sharp, STELLITE™ edge inserts.
Length 4½″ (114mm)

36-5000 Straight
36-5001 Curved



IRIS Scissors, sharp/sharp.
Length 4⅜″ (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 5½″ (140mm)



DELICATE Operating Scissors
Length 5″ (127mm)
Straight

54-4300 Sharp/blunt
54-4301 Sharp/sharp



SCISSORS, OPERATING



DELICATE Operating Scissors
Length 5½″ (140mm)
Straight
54-4306 Sharp/blunt



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



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, OPERATING

OPERATING CLASSIC PLUS® Scissors, STELLITE™ edge inserts.
Length 5½″ (140mm)
Straight

36-5040 Sharp/blunt
36-5041 Sharp/sharp



SCISSORS, STRABISMUS

CLASSIC STRABISMUS Scissors, blunt/blunt
Length 4½″ (114mm)

34-6517 Curved



STRABISMUS CLASSIC PLUS™ scissors, STELLITE™ edge inserts, blunt/blunt.
Length 4½″ (114mm)

36-5005 Straight
36-5006 Curved



STRABISMUS Scissors, blunt/blunt.
Length 4½″ (114mm)

54-6515 Straight
54-6517 Curved



SCISSORS, SUTURE

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



SCISSORS, SUTURE



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



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



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



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

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



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



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



54-6630 WESCOTT Stitch Scissors, sharp/sharp.
Length 4¼″ (108mm)



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)



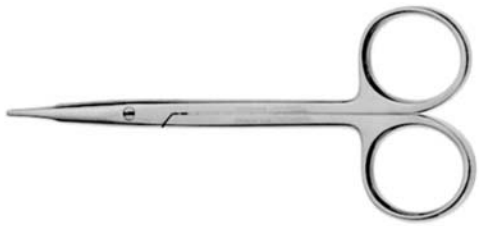
	POTTS Scissor, Tenotomy, Curved Length	
32-3585	6″	(15.2cm)
32-3586	7″	(17.8cm)
32-3587	8″	(20.3cm)



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

SCISSORS, TENOTOMY

	STEVENS Tenotomy Scissors			
54-6520	Straight	Length	4⅛″	(105mm)
54-6521	Curved	Length	4⅛″	(105mm)
54-6522	Straight	Length	4⅝″	(118mm)
54-6523	Curved	Length	4⅝″	(118mm)

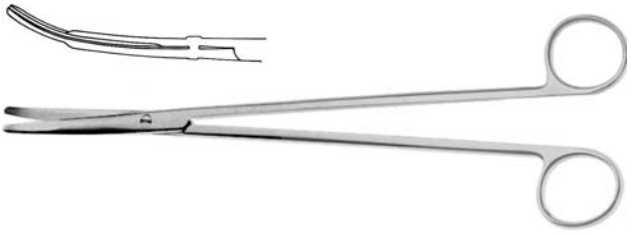


54-6513 WESCOTT Tenotomy Scissors, blunt/blunt.
Length 4¼″ (108mm)



SCISSORS, TISSUE

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

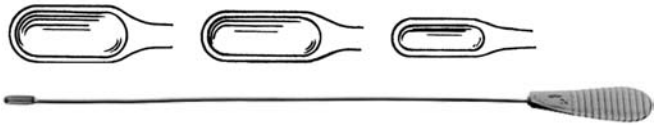


SCISSORS, TONSIL

54-1081 BOETTCHER Tonsil Scissors, double-edged, angled on side.
Length 7¼″ (184mm)



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)



79-5546 SIMS Rectal Speculum, with set screw and fenestrated blades.

Diameter at opening	⅝″	(16mm)
Blade width	1″	(25mm)
Blade depth	3½″	(89mm)
Length	6″	(152mm)

SPONGES

	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	1¼″	(32mm)
	Cord length on all sizes	10″	(254mm)



81-1010



81-1011



81-1012

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

	ADSON Suction Tube with Obturator, Curved Working Distance	6″	(15.2cm)
32-3724	Diameter	7FR	
32-3725	Diameter	9FR	
32-3726	Diameter	11FR	



SUCTION, TUBES



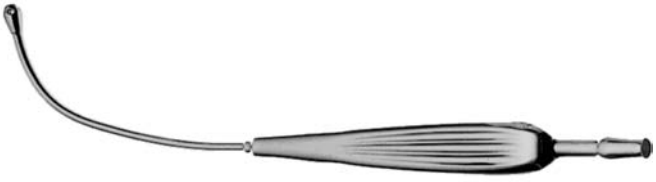
ADSON Suction Tubes, curved tip, with thumb piece to control suction.

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.



67-7675	ANDREWS-PYNCHON OPTI-LENGTH Suction Tube		
	Length	11″	(27.9cm)



70-6560	ANDREWS-PYNCHON Suction Tube.		
	Length	9½″	(241mm)



CODMAN Suction Tube

	Working Distance	Length	
32-3360	24.8cm	12″	(30.5cm)
32-3361	32.3cm	15″	(38.0cm)



70-8035 COOLEY Graft Suction Tube, open end, small side opening.

Distal tip diameter	5/16″	(8mm)
Length	12″	(305mm)



70-8038 COOLEY Left Ventricular Sump Suction Tube, perforated tip, 30° angle.

Diameter	5/16″	(8mm)
Length	11 3/8″	(289mm)



67-7677 COOLEY OPTI-LENGTH Left Ventricular Sump, Perforated, 45°

Tip Width	5/16	
Length	19 3/4″	(50.2cm)



70-8036 COOLEY Vascular Suction Tube, round perforated end.

Diameter	1/4″	(6mm)
Length	11 1/2″	(292mm)

SUCTION, TUBES

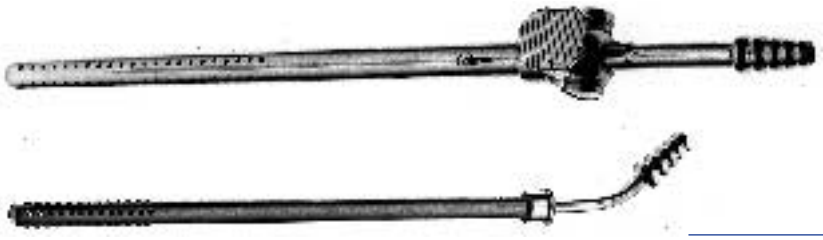


70-8040	METHODIST Vascular Suction Tube		
	Diameter	3/8″	(10mm)
	Length	10″	(254mm)

Replacement tips may be ordered through the Repair Department.



	PACIFICO Suction Tubes			
	Diameter tapers		11-8 Fr.	
70-8048	Long	Length	7½″	(191mm)

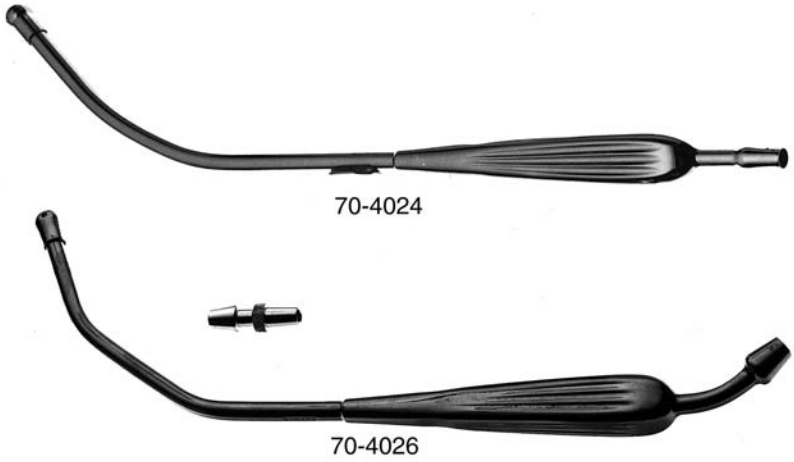


	POOL Suction Tubes.		
70-4000	Curved tubing connection		
	Diameter	23 Fr.	
	Length	9¼″	(235mm)
70-4001	Straight tubing connection		
	Diameter	30 Fr.	
	Length	9⅝″	(244mm)
70-4002	Straight tubing connection, with finger cut-off		
	Diameter	30 Fr.	
	Length	10¼″	(260mm)



32-3362	YANKAUER, Suction Tube with thumb control		
	Working Distance	5⅞″	14.8cm
	Length	12¾″	32.5cm

SUCTION, TUBES



	YANKAUER Suction Tubes with removable tip, (on 70-4026 only).		
70-4026	Standard		
	Length	10 3/8″	(264mm)
70-4024	With thumb control		
	Length	11 1/4″	(286mm)

Replacement tips are available through Repair Department.

TAPE, MARKING

	SURG-I-BAND* Instrument Marking Tape. ¼″ (.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



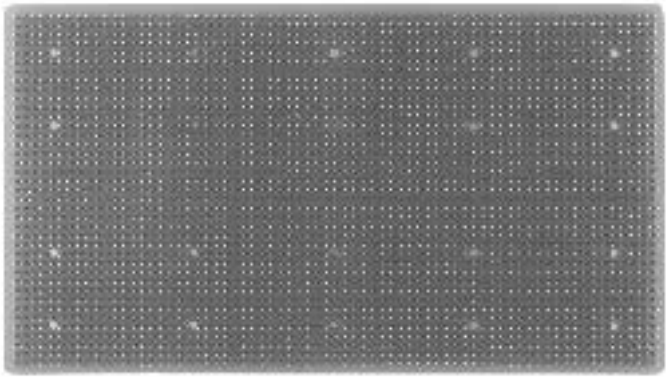
TRAYS, STERILIZING, LIGHTWEIGHT SMALL DEVICES



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)

TRAYS, STERILIZING, MAT



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

TRAYS, STERILIZING, STAINLESS STEEL INSTRUMENT

	CODMAN Sterilizing Trays				
	Width				(254mm)
	Depth			3″	(76mm)
21-3000	Small	11¼″	Length	11¼″	
			Width	(254mm)	
21-3001	Medium	16″	Length	11″	
			Width	(368mm)	
21-3002	Large	21¾″	Length	11″	
			Width	(508mm)	



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)



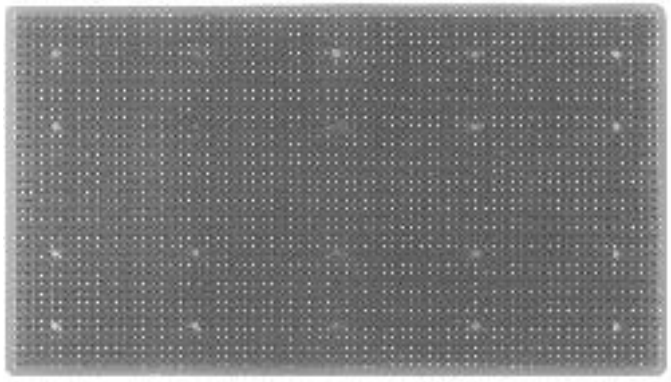
TRAYS, STERILIZING, STAINLESS STEEL INSTRUMENT



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.



80-1830 MICROCARE® Flexible Silicone Mat may be cut to fit most instrument cases.

Length	18″	(46cm)
Width	10″	(25cm)

Codman

TRAYS, STERILIZING, STAINLESS STEEL INSTRUMENT

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.

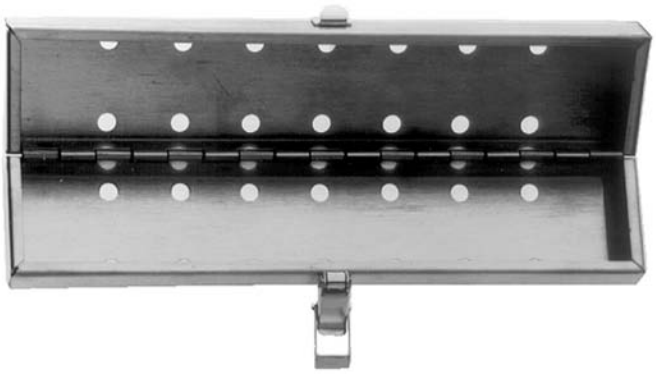
Length	10½″	(267mm)
Width	10″	(254mm)
Depth	1¼″	(32mm)

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.



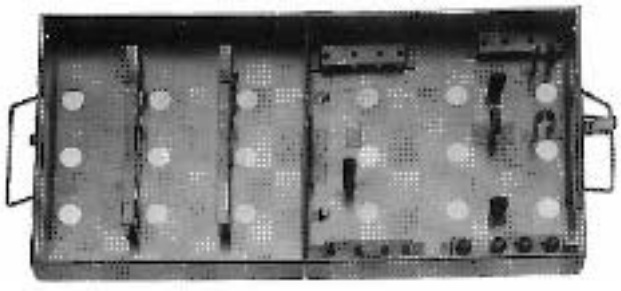


TRAYS, STERILIZING, STAINLESS STEEL KITS



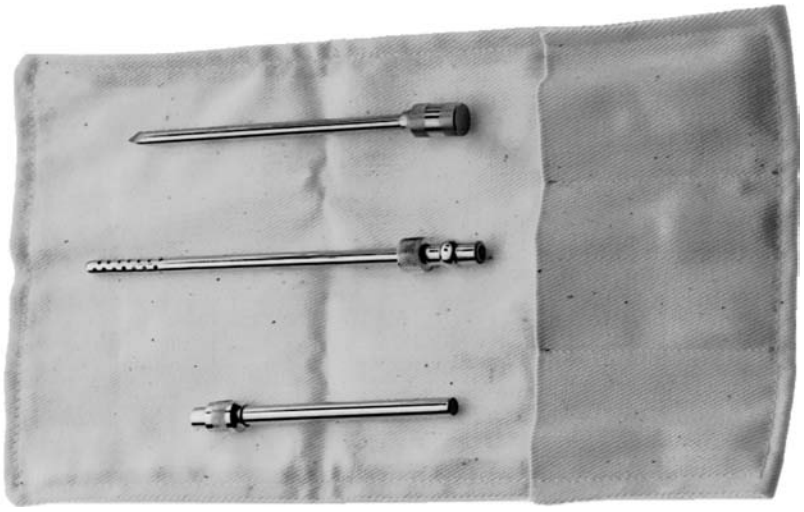
21-8005 CODMAN Dilator Case, Stainless Steel.

Length	9″	(229mm)
Width	1¾″	(44mm)
Depth	1⅛″	(29mm)



21-1001 CODMAN Instrument Case for Anterior Cervical Fusion Instruments

Width	9″	(229mm)
Depth	2⅝″	(67mm)
Length	9″	(229mm)



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)

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)

VISE GRIPS



37-4101	VISE GRIPS		
	Length	7″	(18cm)



BOOKWALTER™ RETRACTORS

Hello,

Our goal from the beginning has been to provide the working surgeon with a table fixed retractor that enables the best possible surgical exposure through any given incision.

We at Codman are constantly trying to improve the genuine BOOKWALTER Retractor System and each of its components to meet the changing needs of the surgical community and to maintain Codman's position as the world leader in table fixed retraction.

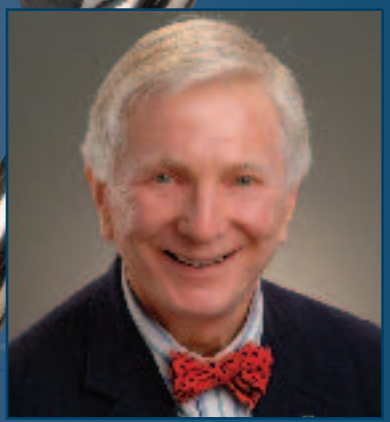
We have three guiding principles for this retractor system:

- First, is to keep making it better. Like you, I count on this retractor and use it every day. It needs to be the best it can be.
- Second, insuring all new and improved components are backwards compatible.
- Third, providing you with highly skilled field sales representatives. We believe in training our sales force to a very high standard. Their extensive training includes time in the operating room with me. This enables them to in-service and support you, our customers, to help you fully benefit from the advantages of the genuine BOOKWALTER Retractor System.

I would like to thank you for your help in making the Bookwalter Retractor the most widely used device of its kind available in the world.

Sincerely

John M. Bookwalter, M.D.



John M. Bookwalter, M.D.

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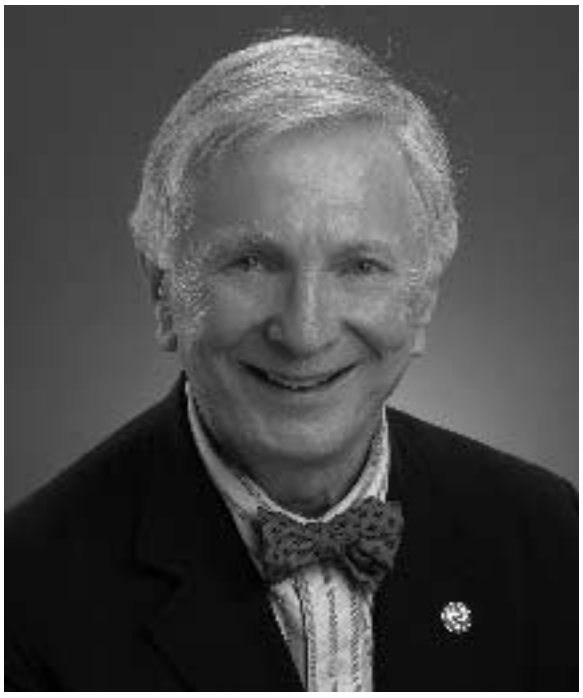
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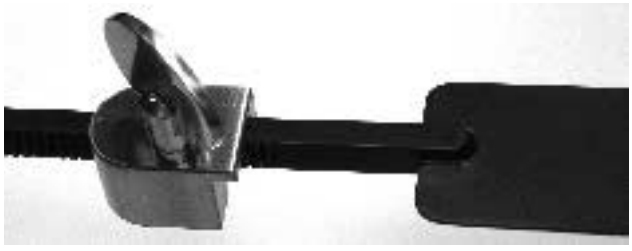
John R. Bookwalter, M.D.



BOOKWALTER, COMPONENTS, ACCESSORIES



BW0338014 BOOKWALTER Ratchet Extender
For Additional length when needed using BOOKWALTER Retractor Blades





BW0338015 Blade Tension Mechanism
Added support when setting retraction

Codman

BOOKWALTER, COMPONENTS, ADJUSTABLE FRAMES

	BOOKWALTER WISHBOOK Adjustable Frame, Large		
50-4648	Frame	Length	15.8″
	Cross Arm	Length	18.15″
50-4649	BOOKWALTER WISHBOOK Adjustable Frame, Small		
	Frame		12.3″
	Cross arm		18.15″





BOOKWALTER, COMPONENTS, BLADE

50-4576	BOOKWALTER-BALFOUR Retractor Blade		
	Width	$2\frac{5}{8}$″	(67mm)
	Depth	3″	(76mm)



50-4577	BOOKWALTER GELPI Point Retractor Blade



BOOKWALTER, COMPONENTS, BLADE



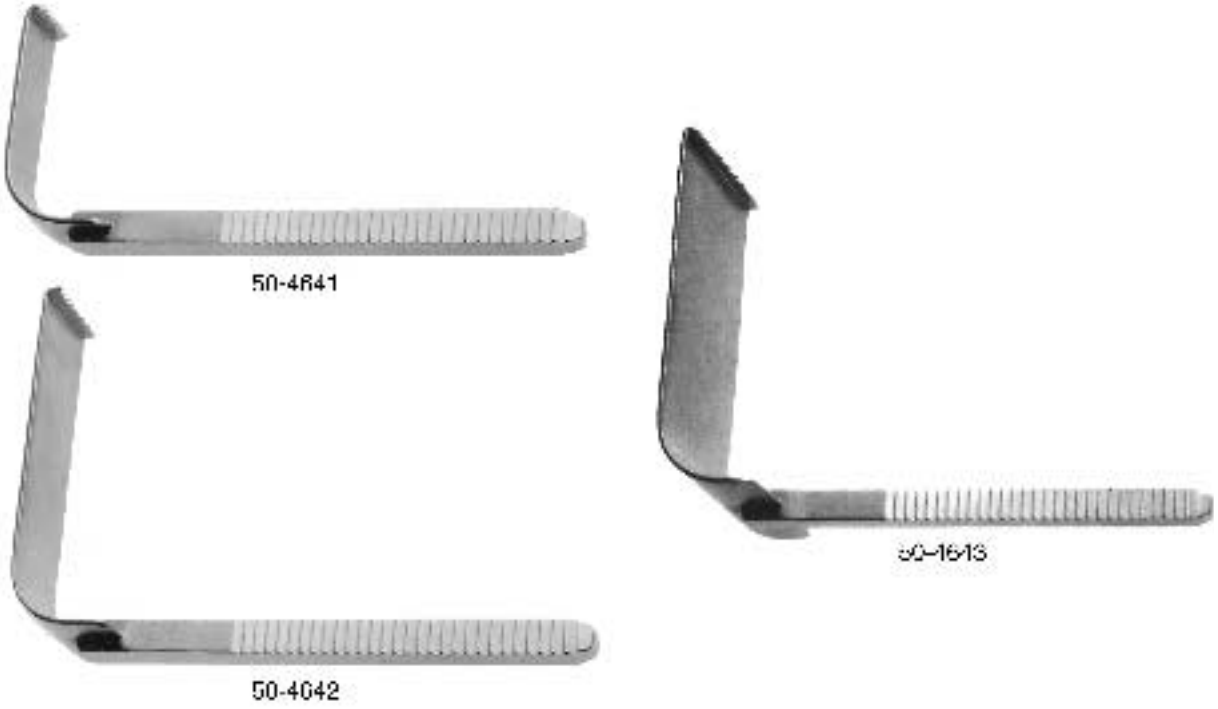
50-4566	BOOKWALTER-HARRINGTON Retractor Blade		
	Width	2½″	(63mm)
	Depth	5⅝″	(143mm)



	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)



	BOOKWALTER-MEYERDING Retractor Blades		
		Width	Length
50-4641	Small	⅔″ (17mm)	2⅓″ (60mm)
50-4642	Medium	1″ (25mm)	3⅓″ (85mm)
50-4643	Large	2″ (50mm)	3¾″ (95mm)



	BOOKWALTER OPTI-LENGTH Retractor Blades, Malleable, with Lip Length 11″ (27.9cm) Blade/Jaw Width
67-7499	3″
67-7500	4″
67-7502	1½″
67-7504	2″

BOOKWALTER, COMPONENTS, BLADE



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





	BOOKWALTER Retractor Blades, Disposable, Thin Radiolucent. Sold sterile [4PK]
	Blade
50-4650	1″ × 4″
50-4651	2″ × 4″
50-4652	2½″ × 4″
50-4653	1″ × 5″
50-4654	2″ × 5″
50-4655	2½″ × 5″
50-4656	1″ × 6″
50-4657	2″ × 6″
50-4658	2½″ × 6″
50-4659	1″ × 7″
50-4660	2″ × 7″
50-4661	2½″ × 7″
50-4662	1″ × 8″
50-4663	2″ × 8″
50-4664	2½″ × 8″
50-4665	1″ × 10″
50-4666	2″ × 10″
50-4667	2½″ × 10″

See BOOKWALTER Radiolucent Thin Blade Holder on Page BW-9

BOOKWALTER, COMPONENTS, BLADE

BOOKWALTER Retractor Blades, Malleable with Lip

	Width	Length
50-4694	1″ (25mm)	4″ (102mm)
50-4672	1½″ (38mm)	6″ (152mm)
50-4673	2″ (51mm)	6″ (152mm)
50-4674	3″ (76mm)	6″ (152mm)

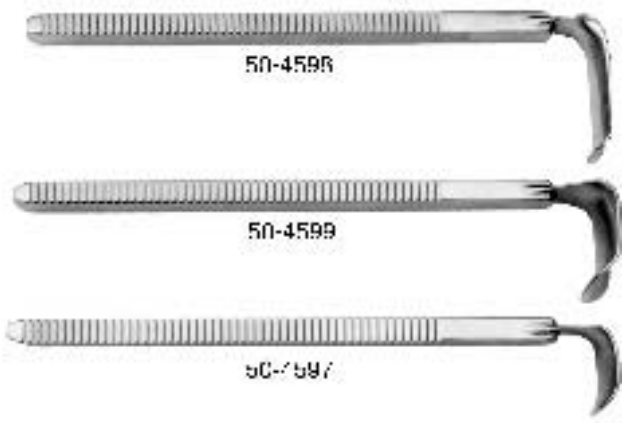


BOOKWALTER Retractor Blades, Super Malleable with Lip

	Width	Length
50-4691	1″ (25mm)	4″ (102mm)
50-4669	1½″ (38mm)	6″ (152mm)
50-4670	2″ (51mm)	6″ (152mm)
50-4671	3″ (76mm)	6″ (152mm)



50-4596	BOOKWALTER RICHARDSON Blade Set
50-4597	BOOKWALTER RICHARDSON Blade ¾″ x 1″
50-4598	BOOKWALTER RICHARDSON Blade ¾″ x 2″
50-4599	BOOKWALTER RICHARDSON Blade 1″ x 1¼″



BOOKWALTER, COMPONENTS, BLADE



MAGRINA-BOOKWALTER Vaginal Retractor Deaver Blades

50-4592	Small	Width	1″	(25mm)
		Length	3½″	(89mm)
50-4593	Large	Width	1″	(25mm)
		Length	5″	(127mm)



50-4591 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)

BOOKWALTER, COMPONENTS, BLADE HOLDERS

50-4677 BOOKWALTER Radiolucent Thin Blade Holder

See BOOKWALTER Radiolucent Thin Blades on Page BW-6



Blades sold separately.

BOOKWALTER, COMPONENTS, CROSSBAR

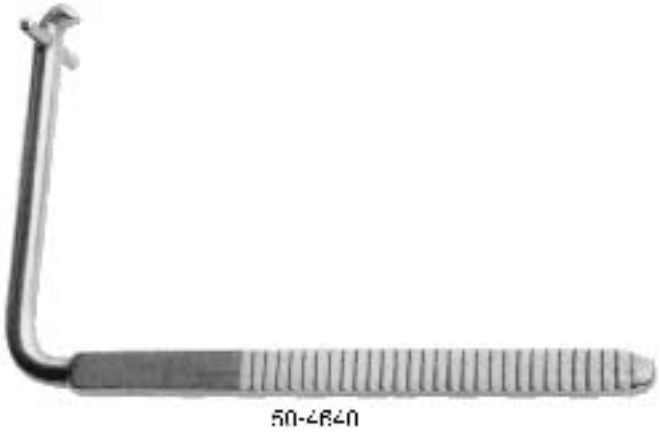
50-4675 BOOKWALTER IMA, T Crossbar

For use with the BOOKWALTER IMA Kit 50-4600.
See Page BW-18.



BOOKWALTER, COMPONENTS, HOOKS





	BOOKWALTER-SCOVILLE Hooks	Length
50-4639	Small	2″ (50mm)
50-4640	Large	3¼″ (83mm)

BOOKWALTER, COMPONENTS, HORIZONTAL BARS



50-4552	BOOKWALTER Horizontal Bar		
	Length	14¼″	(365mm)
	Diameter	1″	(25mm)



50-4582 BOOKWALTER Horizontal Flex Bar 360° rotation



50-4678 VIOLI Ironman Horizontal Ring Holder

BOOKWALTER, COMPONENTS, POST COUPLING

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



BOOKWALTER, COMPONENTS, RACHETS

50-4579	BOOKWALTER Standard Ratchet Mechanism
50-4580	BOOKWALTER Tilting Ratchet Mechanism
50-4589	BOOKWALTER ROTILT™ Ratchet Mechanism



50-4579



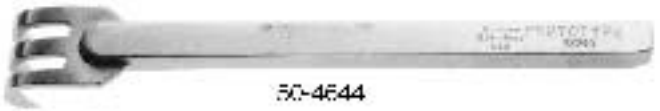
50-4580



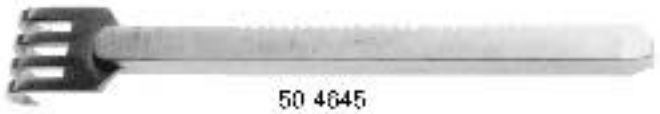
50-4589

BOOKWALTER, COMPONENTS, RAKES

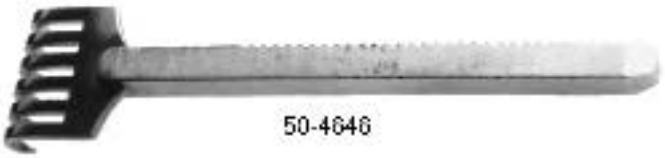
	BOOKWALTER Rake Retractors		
		Depth	Width
50-4644	3 Prongs	¾″ (19mm)	⅔″ (17mm)
50-4645	4 Prongs	⅓″ (8.4mm)	¾″ (19mm)
50-4646	6 Prongs	⅓″ (8.4mm)	1″ (25mm)



50-4644



50 4645

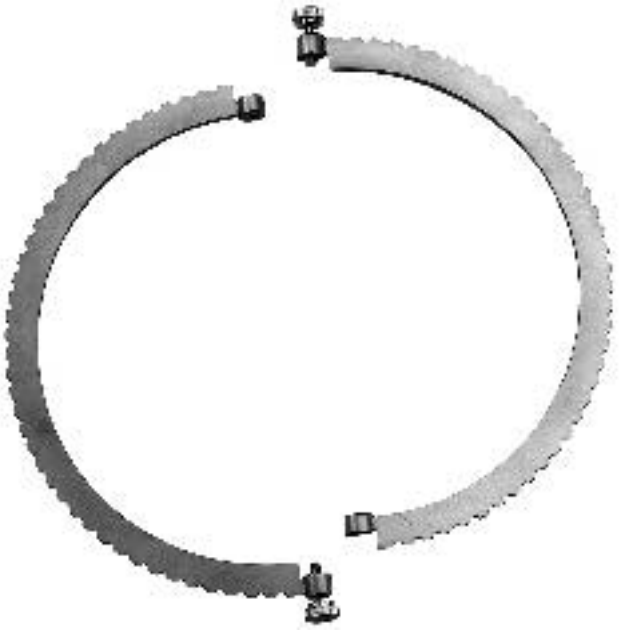


50-4646

BOOKWALTER, COMPONENTS, RINGS

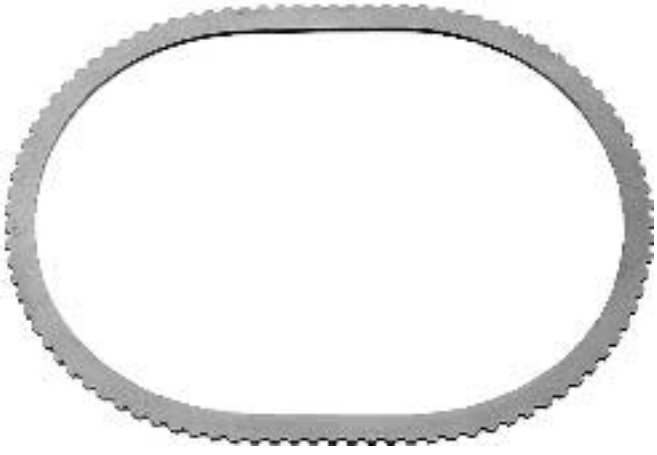


50-4595 BOOKWALTER Eliptical Ring, Segmented
14½″ [368mm] × 15″ [380mm]



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 Oval Rings

50-4556 Large
Width (I.D.) 12″ (267mm)
Length (I.D.) 18½″ (470mm)

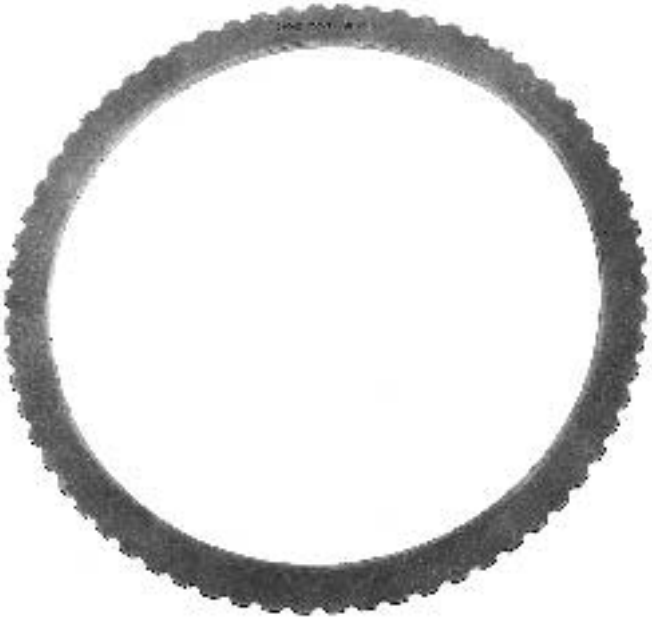
50-4557 Medium
Width (I.D.) 10½″ (267mm)
Length (I.D.) 14½″ (368mm)

50-4558 Small
Width (I.D.) 8″ (203mm)
Length (I.D.) 12¼″ (311mm)

	BOOKWALTER Pelvic Ring		
50-4689	Segmented, with Slots		
	Length	10½″	(266mm)
	Width	8″	(203mm)
50-4690	With Slots (Not Shown)		
	Length	10½″	(266mm)
	Width	8″	(203mm)



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



BOOKWALTER, COMPONENTS, RINGS



	BOOKWALTER Round Suture Ring
50-4684	Small 9½″ I.D. [240mm]



	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.

BOOKWALTER, COMPONENTS, RINGS

	BOOKWALTER Spinal Retractor Rings
50-4635	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)



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



BOOKWALTER, COMPONENTS, TABLE POSTS

	BOOKWALTER Table Posts, for 1″ (25mm) system.	
50-4683	Length	8″
50-4581	Length	12″
BW0144005	Length	18″
BW0144003	Length	24″



50-4681	VIOLI Gooseneck Table Post for 1″ [25mm] system



BOOKWALTER, COMPONENTS, TABLE POSTS



50-4680 BOOKWALTER Post Holder
For use with the VIOLI Gooseneck 50-4681

BOOKWALTER, COMPONENTS, VERTICAL EXTENSION BAR

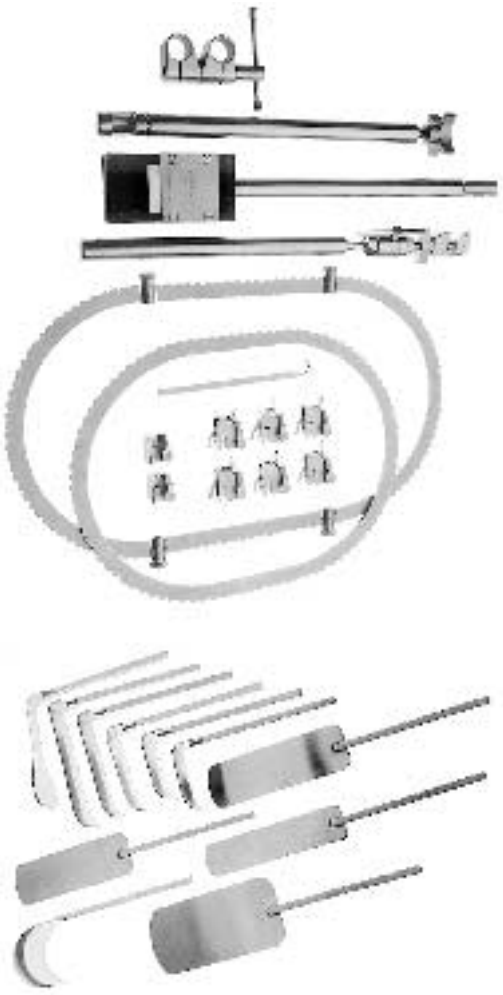


50-4553 BOOKWALTER Vertical Extension Bar

Length	12″	(305mm)
Diameter	1″	(25mm)

Must be used with 50-4554 post coupling

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 Storage, BOOKWALTER II)



BOOKWALTER, KITS, 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 14¼″ length	(25mm) (360mm)
50-4554	Post Coupling	1″ diameter	(25mm)
50-4581	Table Post	1″ diameter	(25mm)
50-4601	IMA Cross Bar	12″ length	(300mm)
50-4602	IMA Ratchet Mechanism (2 each)		
50-4603	IMA Retractor Blade (2 each)	12″ length	(300mm)
50-4604	IMA Storage Case		

See IMA T-Cross Bar on page BW-9

BOOKWALTER, KITS, OBESE PATIENT

BW1046BKIT	BOOKWALTER™ Obese Patient RETRACTOR SYSTEM [18″ Table Post] (For obese patients) Kit Includes:
BW0144005	BOOKWALTER 18″ Table Post
BW1043016	BOOKWALTER 2″x10″ Malleable Blade
BW1043029	BOOKWALTER 3″x10″ Malleable Blade
BW1045069	BOOKWALTER 4″x8″ Malleable Blade
BW1045000	BOOKWALTER 2″x8″ Kelly Blade
BW1271017	BOOKWALTER 3½″x2¾″ Balfour Blade
BW1045176	BOOKWALTER 3½″x10″ Harrington Blade
BW0338014	BOOKWALTER Ratchet Extender
BW0338015	BOOKWALTER Twister Ratchet
50-4552	Horizontal Bar
50-4554	Post Coupling
50-4557	Medium Oval Ring
50-4568	2″X3″ Kelly Blade
50-4569	2″X4″ Kelly Blade
50-4580	Tilt Rachet Mechanism [6ea.]



BW1046BRT	BOOKWALTER Obese Patient Accessories [18″ Table Post] (For obese patients) Kit Includes:
BW0144005	BOOKWALTER 18″ Table Post
BW1043016	BOOKWALTER 2″x10″ Malleable Blade
BW1043029	BOOKWALTER 3″x10″ Malleable Blade
BW1045069	BOOKWALTER 4″x8″ Malleable Blade
BW1045000	BOOKWALTER 2″x8″ Kelly Blade
BW1271017	BOOKWALTER 3½″x2¾″ Balfour Blade
BW1045176	BOOKWALTER 3½″x10″ Harrington Blade
BW0338014	BOOKWALTER Ratchet Extender
BW0338015	BOOKWALTER Twister Ratchet



BOOKWALTER, KITS, OBESE PATIENT



BW1045BKIT	BOOKWALTER Obese Patient RETRACTOR SYSTEM [24″ Table Post] (For obese patients) Kit Includes:
BW0144003	BOOKWALTER 24″ Table Post
BW1043016	BOOKWALTER 2″x10″ Malleable Blade
BW1043029	BOOKWALTER 3″x10″ Malleable Blade
BW1045069	BOOKWALTER 4″x8″ Malleable Blade
BW1045000	BOOKWALTER 2″x8″ Kelly Blade
BW1271017	BOOKWALTER 3½″x2¾″ Balfour Blade
BW1045176	BOOKWALTER 3½″x10″ Harrington Blade
BW0338014	BOOKWALTER Ratchet Extender
BW0338015	BOOKWALTER Twister Ratchet
50-4552	Horizontal Bar
50-4554	Post Coupling
50-4557	Medium Oval Ring
50-4568	2″X3″ Kelly Blade
50-4569	2″X4″ Kelly Blade
50-4580	Tilt Rachet Mechanism [6ea.]



BW1045BRT	BOOKWALTER Obese Patient Accessories [24″ Table Post] (For obese patients) Kit Includes:
BW0144003	BOOKWALTER 24″ Table Post
BW1043016	BOOKWALTER 2″x10″ Malleable Blade
BW1043029	BOOKWALTER 3″x10″ Malleable Blade
BW1045069	BOOKWALTER 4″x8″ Malleable Blade
BW1045000	BOOKWALTER 2″x8″ Kelly Blade
BW1271017	BOOKWALTER 3½″x2¾″ Balfour Blade
BW1045176	BOOKWALTER 3½″x10″ Harrington Blade
BW0338014	BOOKWALTER Ratchet Extender
BW0338015	BOOKWALTER Twister Ratchet

BOOKWALTER, KITS, RECTAL

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



BOOKWALTER, KITS, SMALL INCISION

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)



BOOKWALTER, KITS, SPINAL



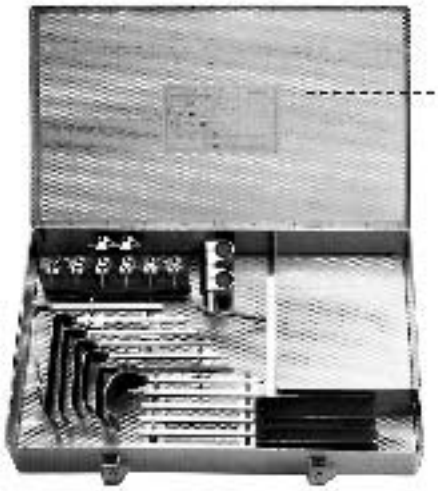
50-4631	BOOKWALTER Spinal Retractor includes:	
50-4581	BOOKWALTER Table Post 1″	
50-4582	BOOKWALTER Horizontal Flex Bar	
50-4554	BOOKWALTER Post Coupling 1″ x 1″	
50-4635	BOOKWALTER Small Round Ring Segments (1 pair)	
50-4636	BOOKWALTER Straight Ring Segment 4″ (1 pair)	
50-4637	BOOKWALTER Straight Ring 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	

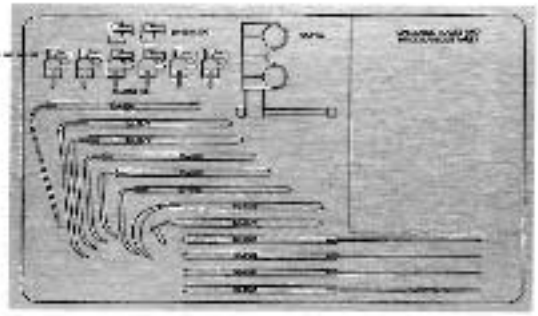
BOOKWALTER, KITS, VAGINAL



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)

BOOKWALTER, STORAGE, BOOKWALTER II BLADE & ACCESSORIE CASE



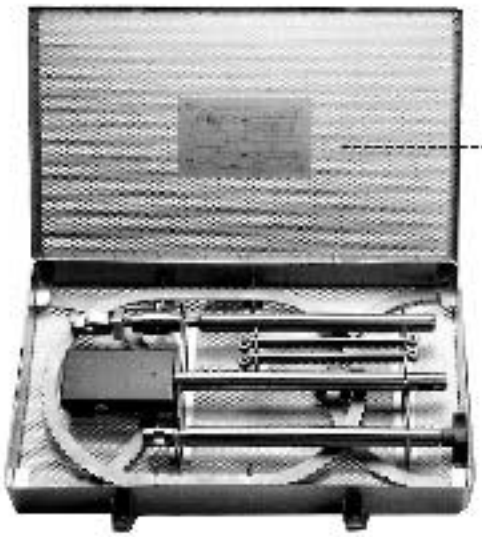


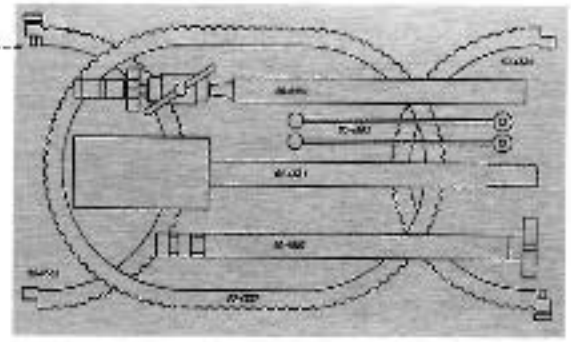
BOOKWALTER™ Blades and Accessories Case
Dimensions: 3 11/16″ x 13⅛″ x 22⅛″
Sterilization: Steam

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 1½ x 6
50-4561 (2 ea.)	Malleable Blade 2 x 6

BOOKWALTER, STORAGE, BOOKWALTER II TABLE FIXATION & RING CASE

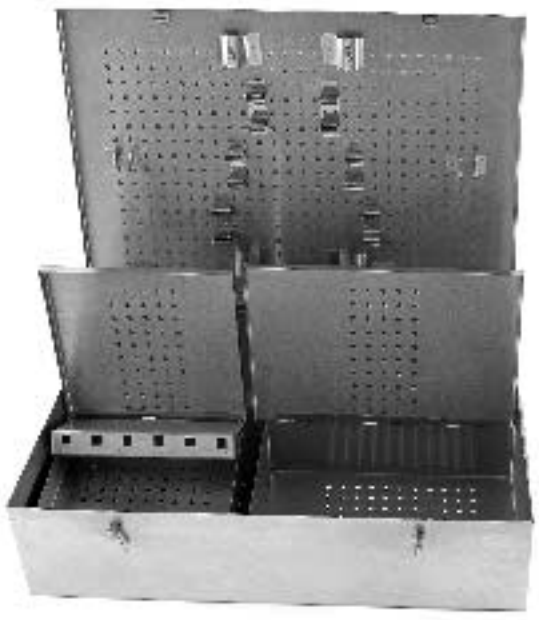




	BOOKWALTER™ Table Fixation and Ring Case Dimensions: 2¾″ x 13⅛″ x 22⅛″ Sterilization: Steam
50-4507	Designed to hold the following BOOKWALTER components:
50-4581	Table Post
50-4582	Horizontal Flexbar
50-4552	Horizontal Bar
50-4583	Medium Segmented Ring
50-4557	Medium Oval Ring

BOOKWALTER, STORAGE, SPINAL CASE

50-4647	BOOKWALTER Spinal Retractor storage/sterilizing case		
	Length	19½″	(500mm)
	Width	13½″	(340mm)
	Depth	4″	(100mm)





OBESITY

METRIC
INCHES
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180



18-1011 CODMAN Spinal Fusion Chisel, straight.
Blade width 15/64″ (6mm)
Length 9½″ (241mm)

CHISELS

18-1020 CODMAN-HARMON Chisel
Blade width 15/64″ (6mm)
Length 9¾″ (248mm)





67-7018 CODMAN OPTI-LENGTH Chisel, Straight, Stiletto
Length 9½″ (24.1cm)
Tip Width ¾″

67-7001 CODMAN OPTI-LENGTH Spinal Fusion Chisel, Straight
Length 10½″ (26.7cm)
Tip width 15/64″ (6mm)

67-7003 CODMAN OPTI-LENGTH PUKA-HOLE Chisel, No. 2
Length 11″ (27.9cm)
Tip width .4″

CLAMP

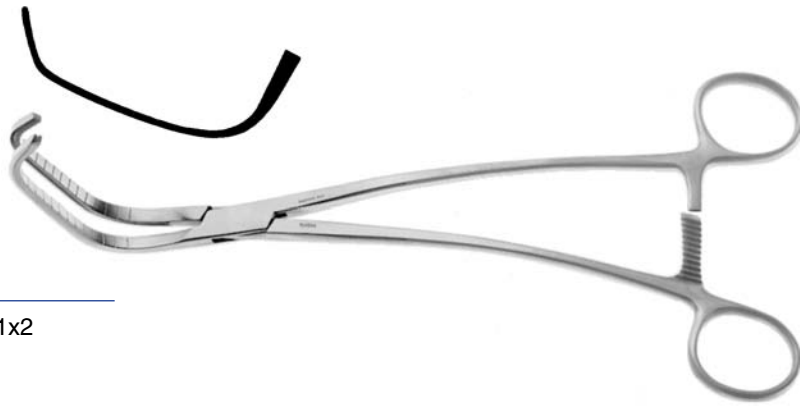


32-3510	STONE Clamp Length	10¼″	26cm	



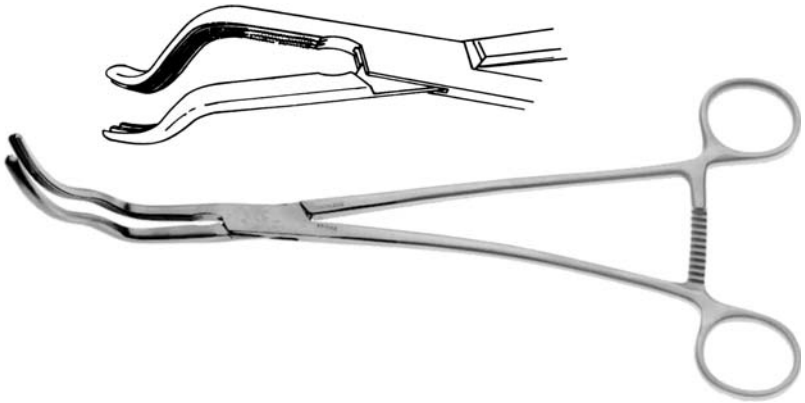


	WYLIE J Clamp Jaw	3.2cm		
32-3500	No. 1	Length	9⅝″	(24.4cm)
32-3501	No. 2	Length	9⅛″	(23.2cm)

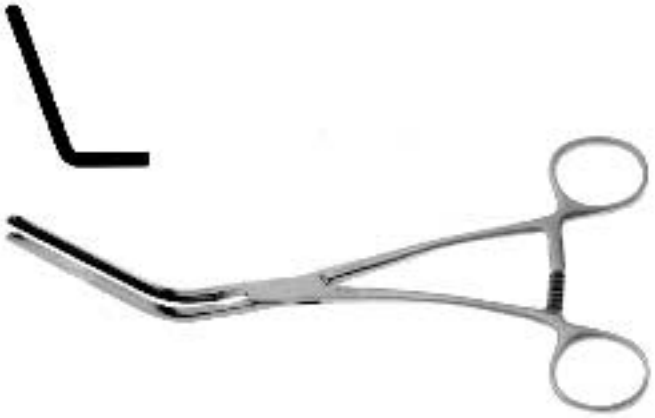


37-1400	COOLEY CLASSIC™ Aorta Clamp, 1x2 vascular teeth.		
	Jaw length	2⅞″	(73mm)
	Jaw depth	1 1/16″	(17mm)
	Total length	10″	(254mm)

37-1165	DeBAKEY CLASSIC™ Aorta Clamp, spoon-shaped jaws angled on flat, 2x3 vascular teeth.		
	Jaw length	2⅜″	(60mm)
	Total length	10″	(254mm)



	MORRIS CLASSIC™ Aorta Clamps, 2x3 vascular teeth.		
37-1701	Jaw length	3″	(76mm)
	Total length	10⅜″	(264mm)



CLAMPS, AORTA

37-1026 OCHSNER CLASSIC™ Aorta Clamp, 1x2 vascular teeth.

Jaw length	2 1/8″	(55mm)
Jaw depth	3/4″	(18mm)
Total length	10 3/8″	(264mm)





37-1024 REUL CLASSIC™ Aorta Clamp, partial occlusion, 2x2 vascular teeth.

Jaw length	2 1/8″	(55mm)
Jaw depth	5/8″	(15mm)
Total length	10″	(254mm)

32-3504	DEBAKEY Aortic Aneurysm Clamp, reverse curve		
	Jaw	10.5cm	
	Length	11¾″	(30cm)



	DeBAKEY CLASSIC™ Aortic Aneurysm Clamps, 1x2 vascular teeth.		
37-1141	Jaw length	3⅜″	(85mm)
	Total length	10½″	(267mm)
37-1142	Jaw length	4″	(102mm)
	Total length	12″	(305mm)
37-1143	Jaw length	4¾″	(120mm)
	Total length	12½″	(318mm)



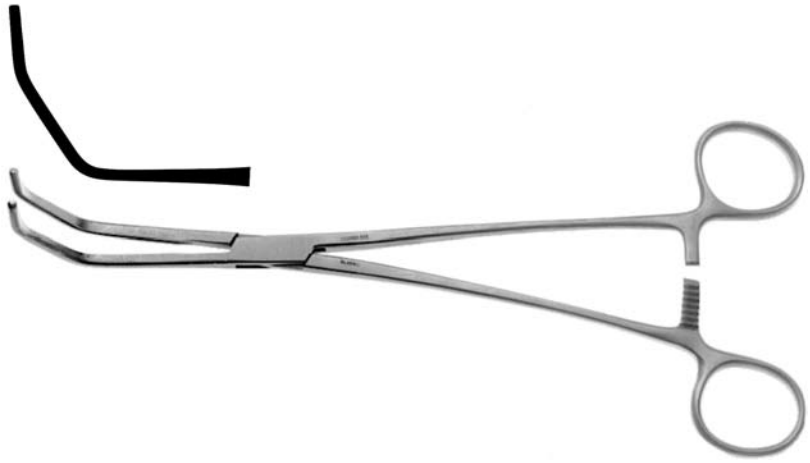
32-3509	GRANT Aortic Aneurysm Clamp, reverse curve		
	Jaw	3″	7.5cm
	Length	9″	(23cm)



CLAMPS, AURICLE

37-1105 GLOVER CLASSIC™ Auricle Appendage Clamp, 1x2 vascular teeth.

Jaw length	2″	(52mm)
Jaw depth	¼″	(7mm)
Total length	9¾″	(248mm)



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





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

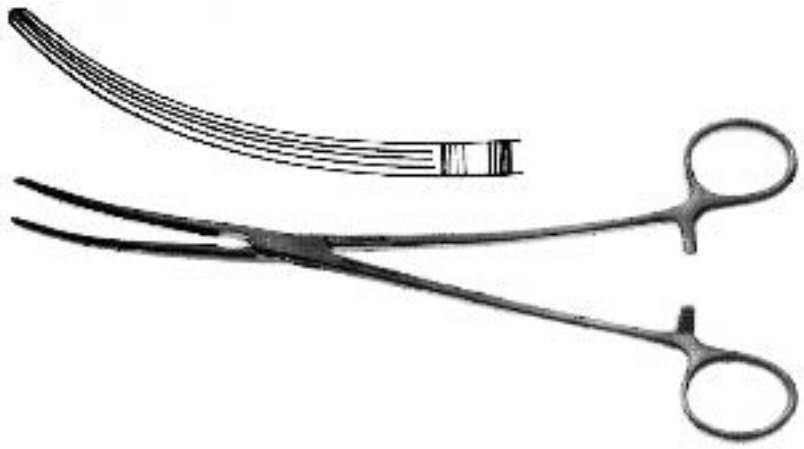
*FOGARTY Hydragrip is a registered trademark of Baxter International, Inc.



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.

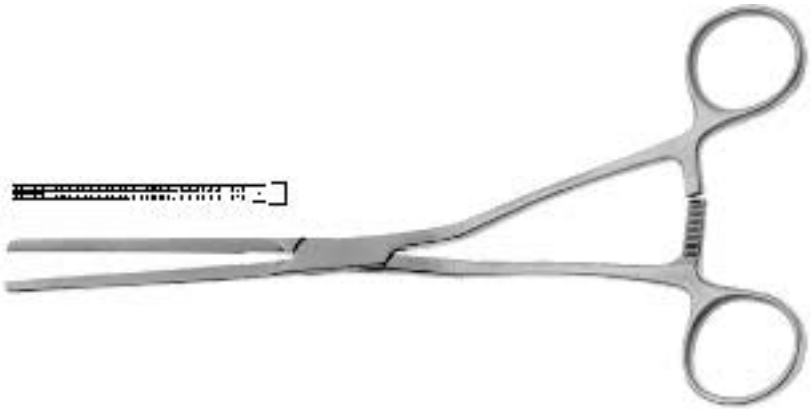
CLAMPS, COARCTATION



19-8104	CRAFOORD Coarctation Clamps curved jaws.		
	Jaw length	2½″	(63mm)
	Total length	9½″	(241mm)



	GLOVER OPTI-LENGTH Coarctation Clamp.		
	Length	10″	(25.4cm)
67-7525	Straight		
67-7526	Curved		



	COOLEY CLASSIC™ Iliac Clamps, angled shaft, 2x2 vascular teeth.		
37-1401	Jaw length	2 3/8″	(60mm)
	Total length	10″	(254mm)



67-7533	COOLEY OPTI-LENGTH ILIAC, Clamp, Angled, 2X2 Vascular teeth		
	Length	12″	(30.5cm)

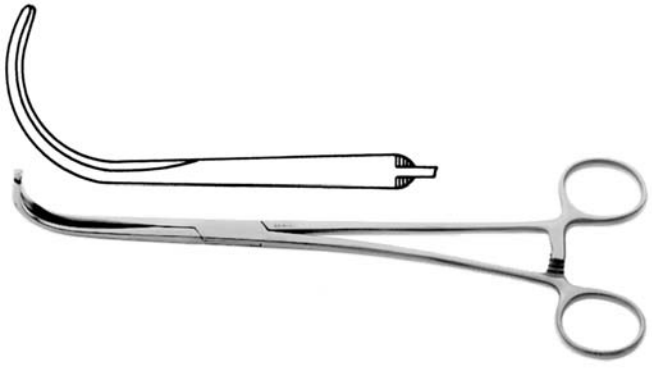
CLAMPS, LIGATURE CARRYING



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)



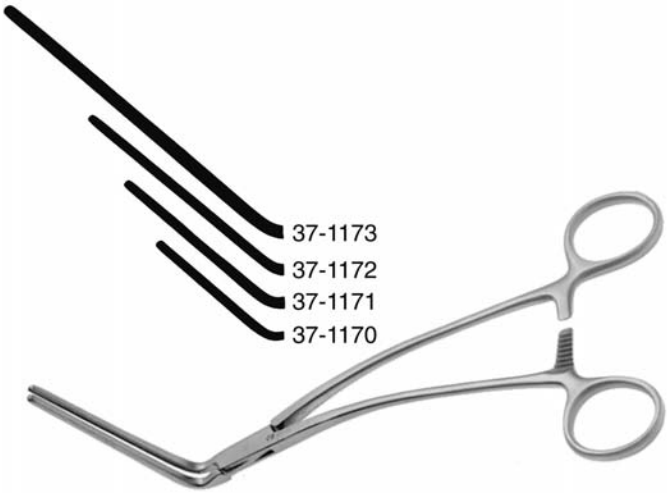
	DEBAKEY-SEMB OPTI-LENGTH, Ligature Carrying Clamp		
67-7534	Length	11″	(27.9cm)
67-7535	Length	12″	(30.5cm)

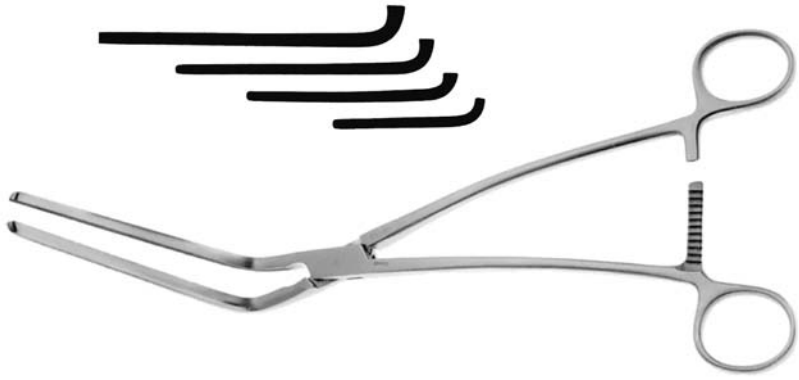


30-8056	SEMB Ligature Carrying Forceps, acute curve.		
	Length	9 1/2″	(241mm)

DeBAKEY CLASSIC Multi-Purpose Clamps, 60° angle, 1x2 vascular teeth.

37-1170	Jaw length	1⅝″	(40mm)
	Total length	9⅝″	(244mm)
37-1172	Jaw length	2¾″	(70mm)
	Total length	9½″	(241mm)
37-1173	Jaw length	4″	(100mm)
	Total length	12″	(305mm)

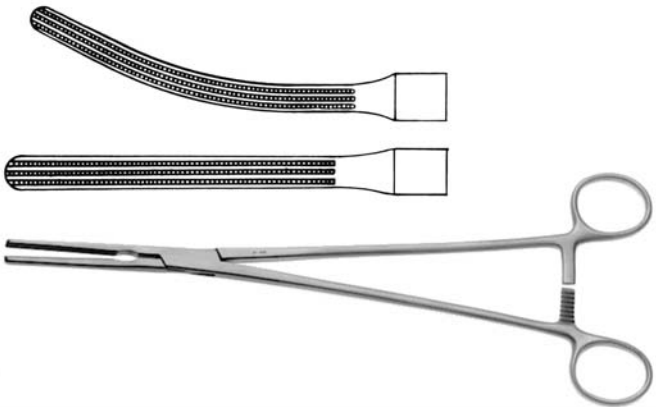




DeBAKEY CLASSIC™ Multi-Purpose Clamps, 90° angle, 1x2 vascular teeth.

37-1183	Jaw length	4″	(100mm)
	Total length	10½″	(267mm)

CLAMPS, PELVIC



MASTERSON Pelvic Clamp,
2x3 vascular teeth.

	Jaw length	1¾″	(45mm)
	Total length	10½″	(267mm)
37-1522	Straight		
37-1523	Curved		

CLAMPS, RENAL ARTERY

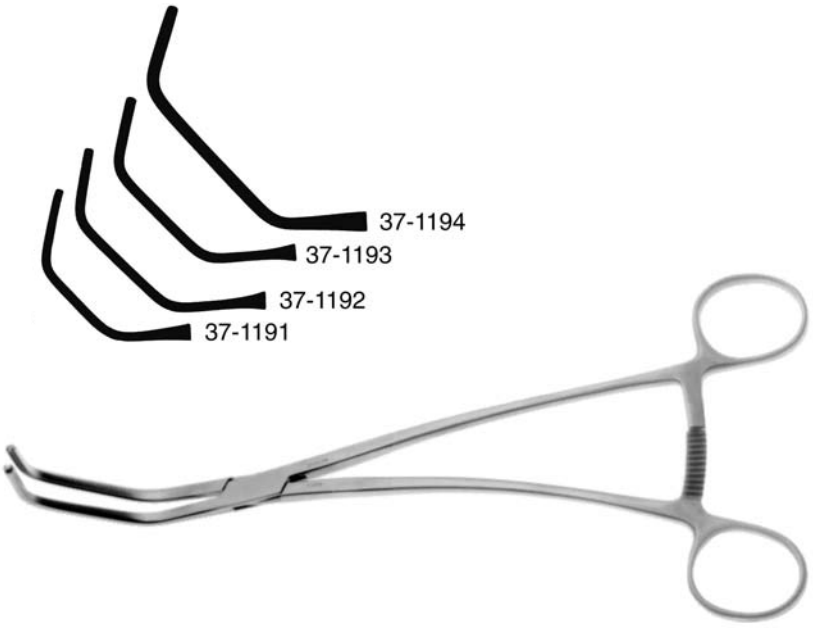


CLASSIC Renal Artery Clamps,
blades calibrated at 5mm intervals, curved shafts, 2x2 vascular teeth.

37-1242	Jaw length	1″	(25mm)
	Total length	10⅝″	(270mm)

DeBAKEY CLASSIC™ Tangential Occlusion Clamps, 1x2 vascular teeth.

37-1191	Jaw length	11 5/16″	(48mm)
	Jaw depth	5/8″	(15mm)
	Total length	9 3/4″	(248mm)
37-1192	Jaw length	2 3/8″	(60mm)
	Jaw depth	5/8″	(15mm)
	Total length	10″	(254mm)
37-1193	Jaw length	2 3/8″	(60mm)
	Jaw depth	5/8″	(15mm)
	Total length	10 1/4″	(260mm)
37-1194	Jaw length	3″	(75mm)
	Jaw depth	5/8″	(15mm)
	Total length	10 5/8″	(270mm)



CLAMPS, VASCULAR



67-7564	COOLEY OPTI-LENGTH, Anastomosis Clamp		
	Length	12″	(30.5cm)

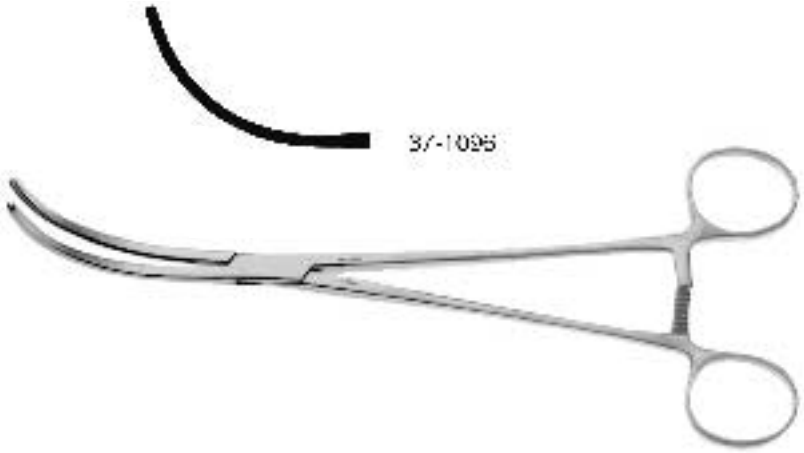


	DeBAKEY CLASSIC Vascular Clamps, acutely curved, 1x2 vascular teeth.		
37-1130	Jaw length	2″	(50mm)
	Jaw depth	3/8″	(10mm)
	Total length	9 1/2″	(241mm)
37-1131	Jaw length	2 3/4″	(70mm)
	Jaw depth	1″	(25mm)
	Total length	10 1/2″	(267mm)



	DEBAKEY OPTI-LENGTH Vascular Clamp		
67-7523	Length	9″	(22.9cm)
67-7524	Length	10″	(25.4cm)

	GLOVER CLASSIC™ Curved Clamps, 1x2 vascular teeth.		
37-1096	Extra long		
	Jaw length	2½″	(65mm)
	Jaw depth	⅜″	(10mm)
	Total length	9½″	(241mm)

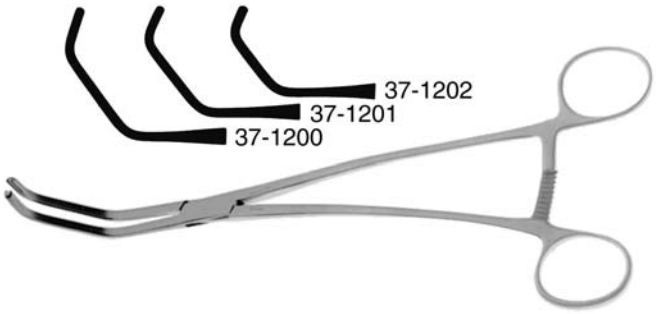


CLAMPS, VASCULAR

	GLOVER CLASSIC™ Spoon-shaped Clamps, 1x2 vascular teeth.		
37-1101	Extra long		
	Jaw length	2⅜″	(60mm)
	Jaw depth	5⁄16″	(7mm)
	Total length	10″	(254mm)

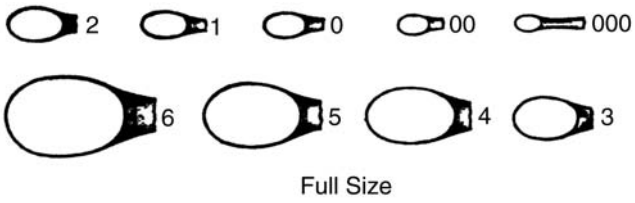


CLAMPS, VENA CAVA



	SATINSKY CLASSIC™ Vena Cava Clamps, 1x2 vascular teeth.		
37-1200	Jaw length	2¾″	(68mm)
	Jaw depth	½″	(12mm)
	Total length	9½″	(241mm)
37-1201	Jaw length	2½″	(63mm)
	Jaw depth	⅜″	(9mm)
	Total length	9½″	(241mm)
37-1202	Jaw length	2¼″	(57mm)
	Jaw depth	¼″	(6mm)
	Total length	9½″	(241mm)

CURETTES



Full Size

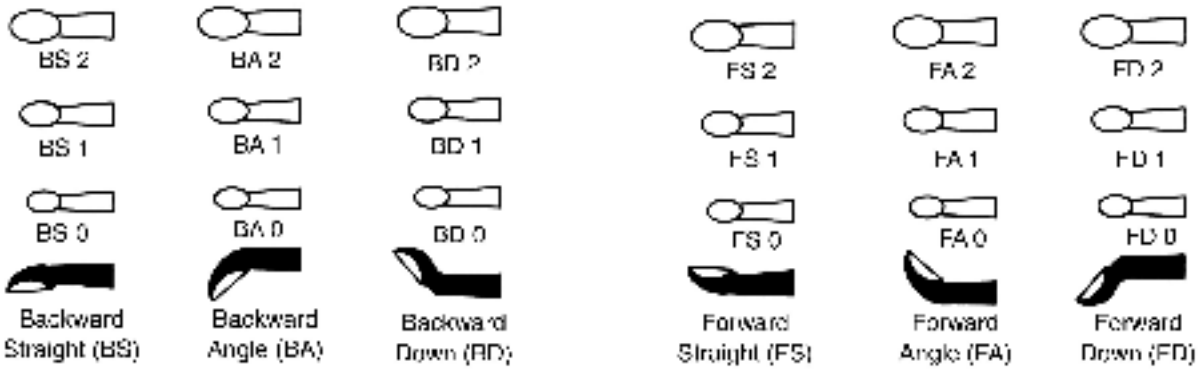


	COBB Spinal Curettes		
	Length	11″	(279mm)
		Tip size	
23-2570	No. 000	3.25mm	
23-2571	No. 00	4.00mm	
23-2572	No. 0	5.00mm	
23-2573	No. 1	6.00mm	
23-2574	No. 2	7.50mm	
23-2575	No. 3	9.00mm	
23-2576	No. 4	11.50mm	
23-2577	No. 5	13.00mm	
23-2578	No. 6	15.50mm	

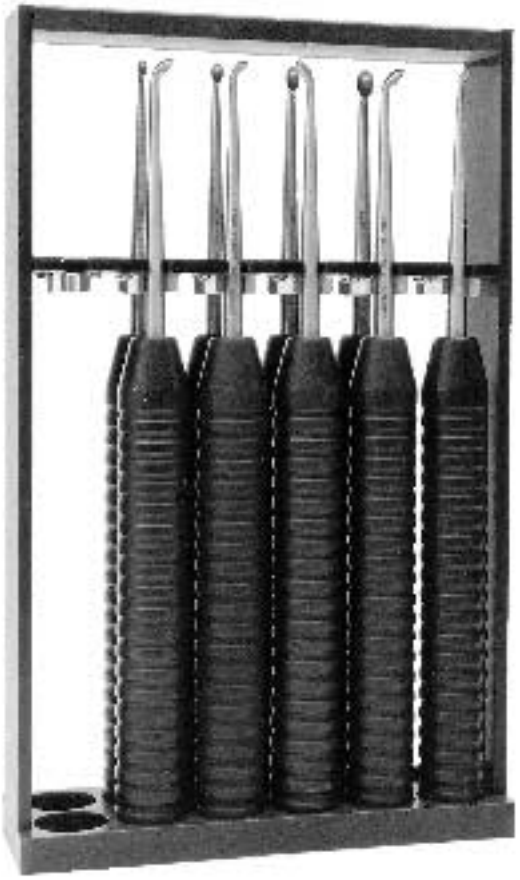
KARLIN Lumbar Microdiscectomy Instruments offset, black handles, tip configuration marked on handle.
Length 9½″ (24.13cm)

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





CURETTES

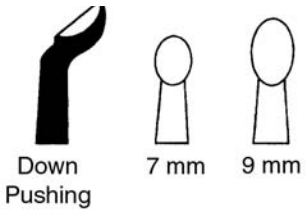


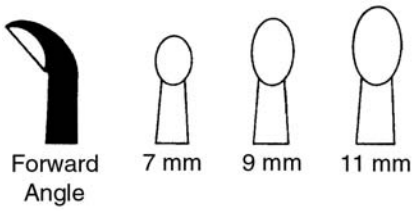
KARLIN XL MAGNUM Cup Curettes
Extra Long (XL) curettes, black handles, lightweight
Length 13¼″ (33.7cm)
Handle length 8½″ (21cm)
Handle diameter 1¼″ (32cm)

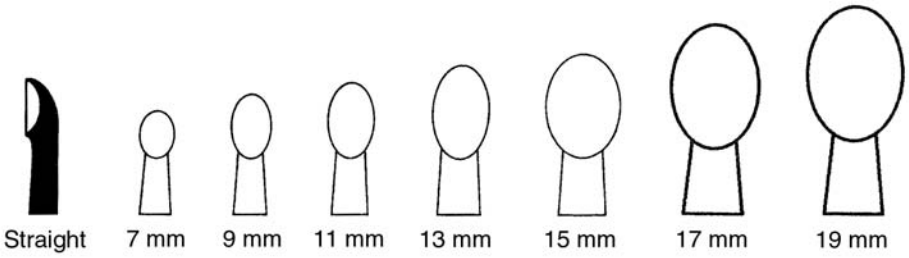
46-3225 XL MAGNUM Cup curettes with case
Includes:

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)

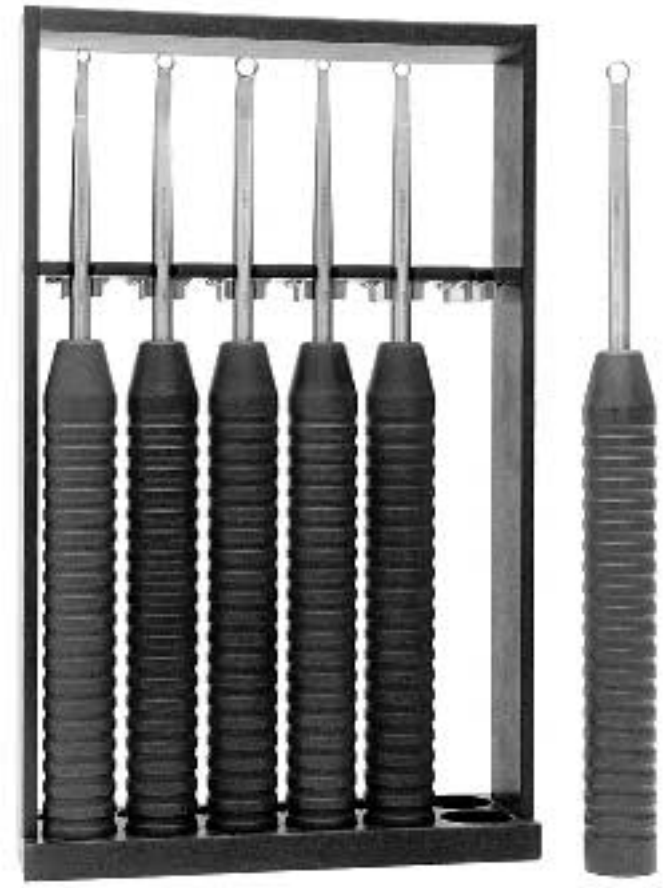
46-3222 Storage/sterilizing case for 12 XL MAGNUM instruments

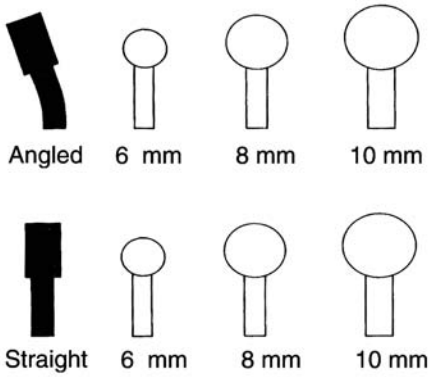






Codman





	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



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		
	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)		

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		



46-3410	PG MAGNUM Cup Curettes		
	Total length	12.6″	(32cm)
	Handle length	7.8″	(20cm)
	Handle diameter	1.12″	(3cm)
	Working distance	4.7″	(12cm)
	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		



CURETTES



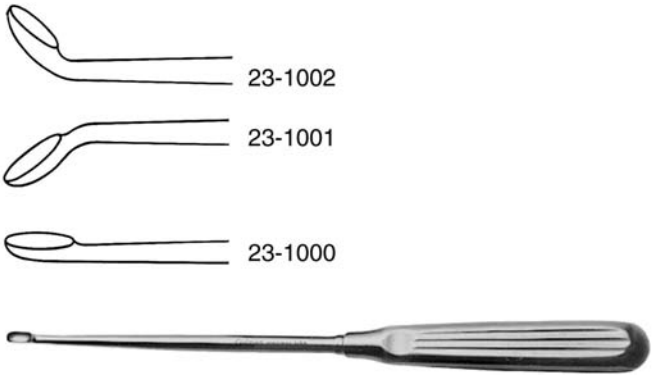
47-5010	MICROSECT Curette Kit (Includes 12 Curettes & Tray)
47-5011	#1 Forward Angle Curette, 10″
47-5012	#1 Backward Angle Curette, 10″
47-5013	#2 Forward Angle Curette, 10″
47-5014	#2 Backward Angle Curette, 10″
47-5015	#3 Forward Angle Curette, 10″
47-5016	#3 Backward Angle Curette, 10″
47-5017	#4 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



	SCOVILLE OPTI-LENGTH Curette			
		Length		Cup Size
67-7174	Lateral	12″	(30.5cm)	4x10mm
67-7175	Lateral	14″	(35.6cm)	4x10mm
67-7176	Lateral	15″	(38.1cm)	6x10mm
67-7177	Angular	12″	(30.5cm)	4x10mm
67-7178	Angular	14″	(35.6cm)	4x10mm
67-7179	Angular	15″	(38.1cm)	6x10mm

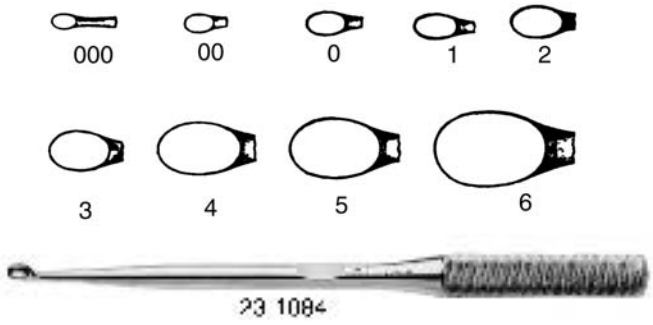
SCOVILLE Ruptured Disc Curettes
Length 10″ (254mm)
Cup Size 4x10mm

23-1000 Straight Cup
23-1001 Flared Laterally Cup
23-1002 Angular Cup



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



DISSECTORS



MAGNAFREE™ MRI Penfield Dissectors
Non-Magnetic dissectors (titanium) for Interventional MRI. MRI safe up to 1.5 Tesla.

65-2406 No. 5 Slightly curved blunt dissector, double ended
Length 11½″ (272mm)



PENFIELD Dissectors

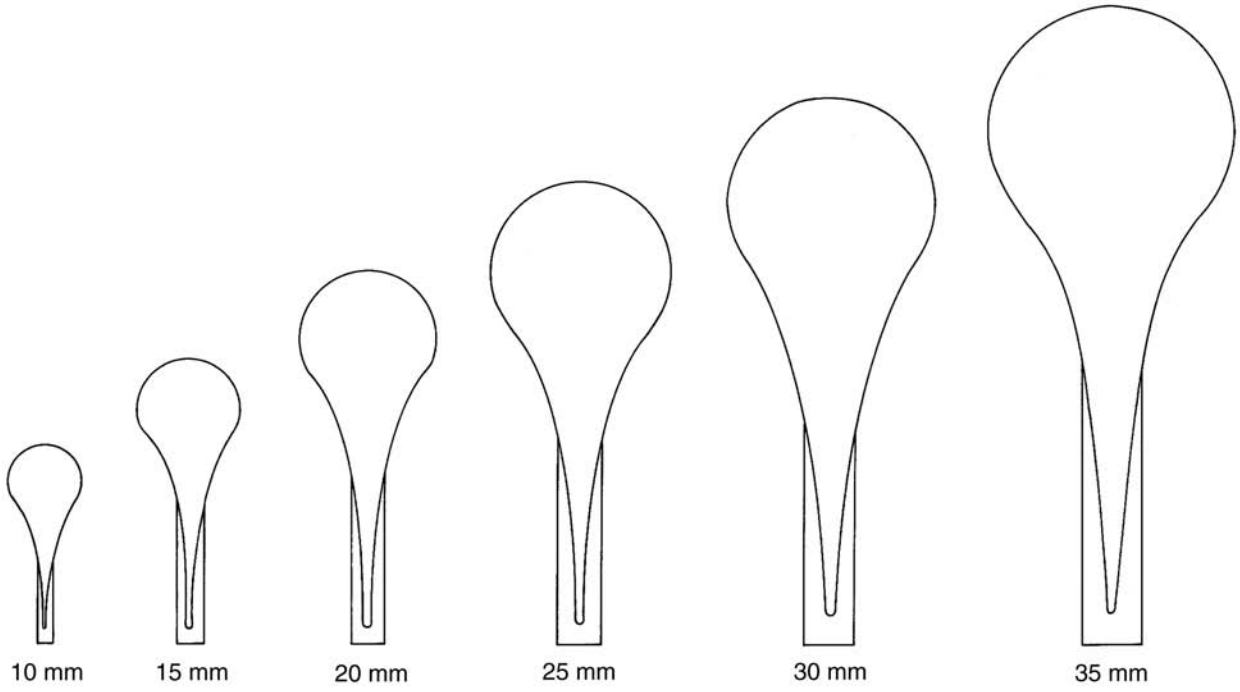
65-1019 Slightly curved blunt dissector, double-ended.
Length 11½″ (272mm)

ELEVATORS



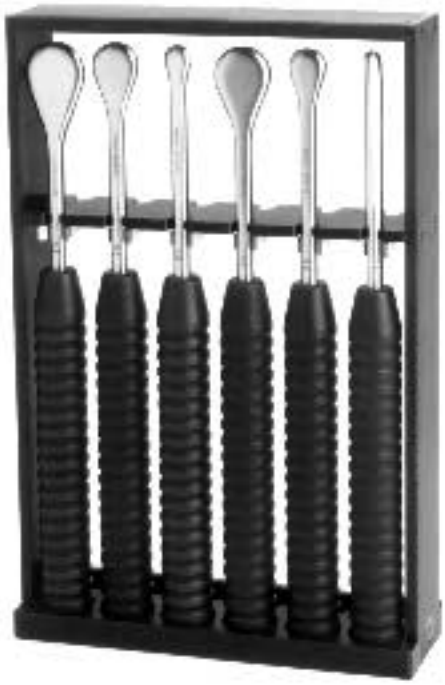
KARLIN™ XL MAGNUM Cobb Elevators Extra Length (XL), black handles, allow two-handed control. Sharp, broad instruments designed to facilitate soft tissue elevation and removal.

	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		



Codman

ELEVATORS



46-3425	PG MAGNUM COBB Elevators		
	Total length	12.6″	(32cm)
	Handle length	7.8″	(20cm)
	Handle diameter	1.12″	(3cm)
	Working distance	4.7″	(12cm)
	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		



59-1000	WOODSON Elevator and Spatula, double-ended, semi-sharp.		
	Blade width	⅛″	(3mm)
	Blade depth	½″	(13mm)
	Total length	10″	(254mm)

FORCEPS



DEBAKEY OPTI-LENGTH FORCEPS

	Tip Width	Length	
67-7800	1.5mm	12″	(30.5cm)
67-7801	2mm	12″	(30.5cm)
67-7802	1.5mm	14″	(35.6cm)
67-7803	2mm	14″	(35.6cm)

FORCEPS, DRESSING



	DRESSING Forceps, serrated.		
30-4138	Tip width		3.0mm
	Length	10″	(254mm)
30-4139	Tip width		3.4mm
	Length	12″	(305mm)



32-3541	Thumb Forcep		
	Length	14″	(35.6cm)
	Jaw	3.4mm	



	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.		
30-8022	Tip width		1.5mm
	Length	9¾″	(248mm)
30-8122	Tip width		1.6mm
	Length	12″	(305mm)

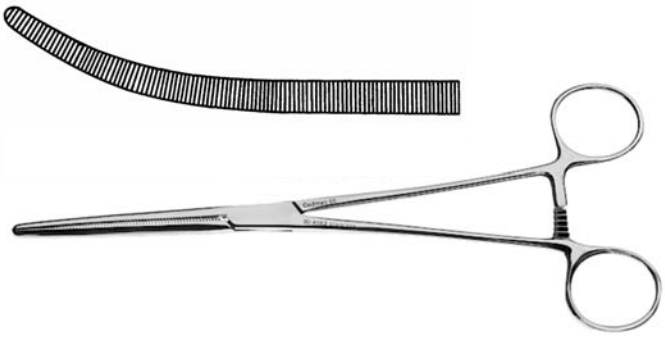


	GEMINI Hemostatic Forceps, curved.		
19-5582	Length	9″	(229mm)
19-5583	Length	11″	(279mm)

32-3546	GEMINI Tissue Forcep, serrated tip		
	Length	14″	(35.6cm)



	PEAN Hemostatic Forceps, cross-serrations. Curved		
30-4573	Length	10″	(254mm)
30-8093	Length	12″	(305mm)



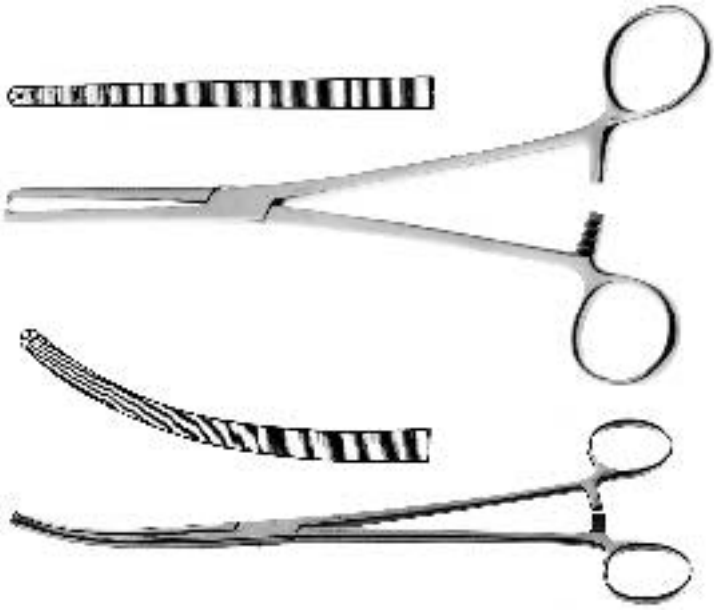
FORCEPS, HEMOSTATIC



30-8092	ROCHESTER-CARMALT Hemostatic Forceps, longitudinal serrations, curved.		
	Length	12¼″	(312mm)



32-3539	ROCHESTER-OCHSNER Hemostatic Forcep, straight, serrated, 1x2 teeth		
	Length	14″	(35.6cm)



	ROCHESTER-OCHSNER Hemostatic Forceps,1x2 teeth.		
	Straight		
30-8090	Length	10″	(254mm)
	Curved		
30-8091	Length	10″	(254mm)

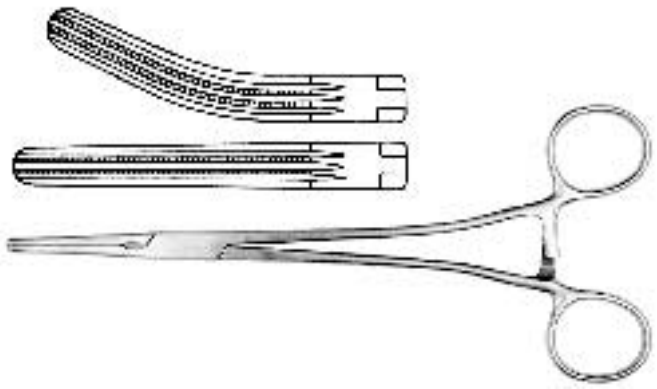
FORCEPS, HEMOSTATIC

	Rochester Pean Forcep, Hemostatic Length		
32-3553	12″	(30.5cm)	
32-3554	14″	(35.5cm)	



FORCEPS, HYSTERECTOMY

	ROGERS Hysterectomy Forceps, 2x3 vascular teeth, SAROT style shanks.		
	Jaw length	1¾″	(44mm)
	Total length	10″	(254mm)
37-1502	Straight		
37-1503	Curved		



FORCEPS, INTESTINAL

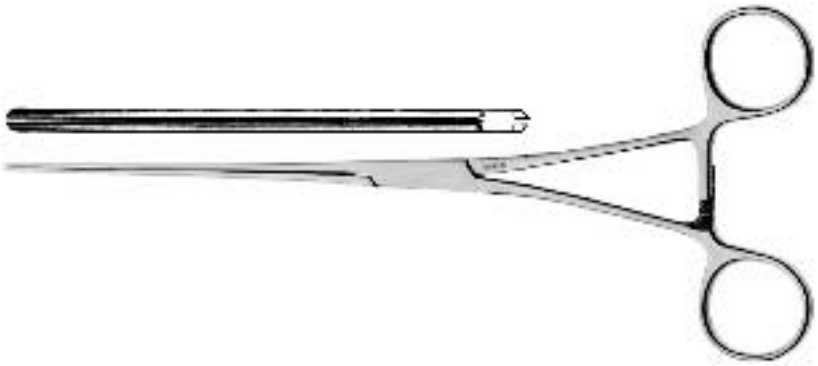


30-4700	BRIDGE Intestinal Forceps, curved.		
	Length	11″	(279mm)

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



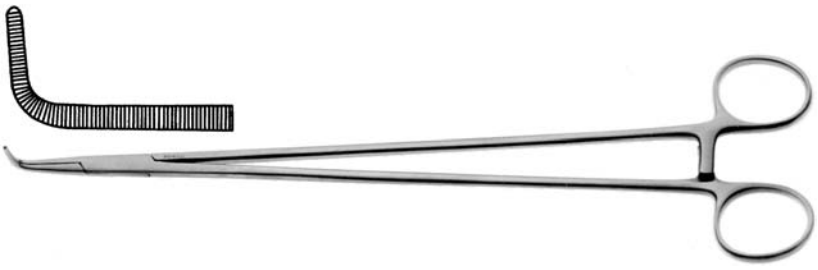
FORCEPS, INTESTINAL



	KOCHER Intestinal Forceps, longitudinal serrations.			
30-4300	Straight	Length	11″	(279mm)



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



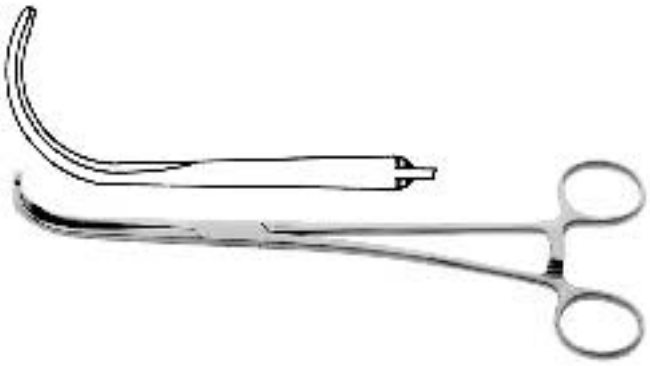
30-4701	MEEKER Intestinal Forceps, right angle.		
	Length	10¾″	(273mm)

FORCEPS, LIGATURE



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, LIVER



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

FORCEPS, SPONGE



	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, SPONGE HOLDING



32-3540	Sponge Holding Forceps, serrated jaw, straight		
	Length	14″	(35.6cm)

FORCEPS, SPONGE HOLDING, UTERINE



32-3527	FLETCHER-VAN DOREN Uterine Sponge Holding Forcep		
	Length	9½″	(24.1cm)

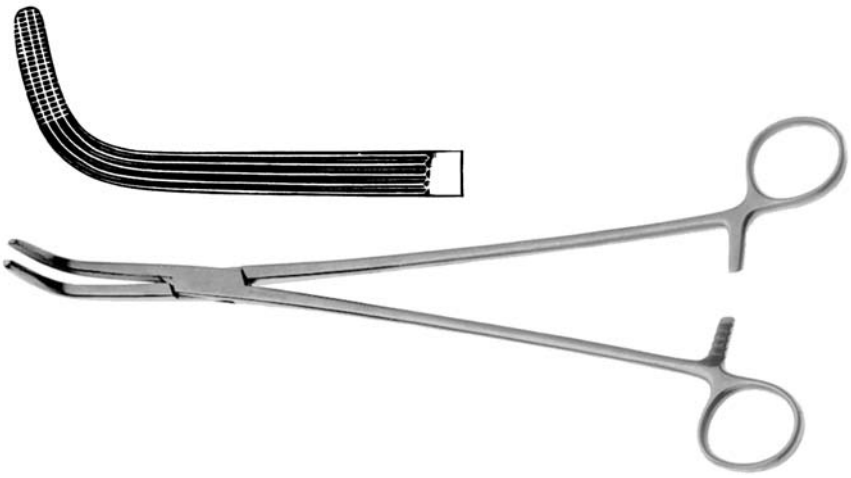
HARRINGTON Forcep, Right Angled

	Length	
32-3551	12¼″	(31.1cm)
32-3552	14″	(35.6cm)



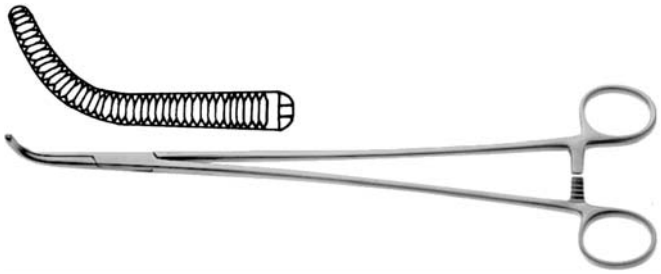


30-8051 HARRINGTON-MIXTER Thoracic Clamp Forceps, right angled, longitudinal serrations with cross-serrated tips.
Length 12¼″ (311mm)

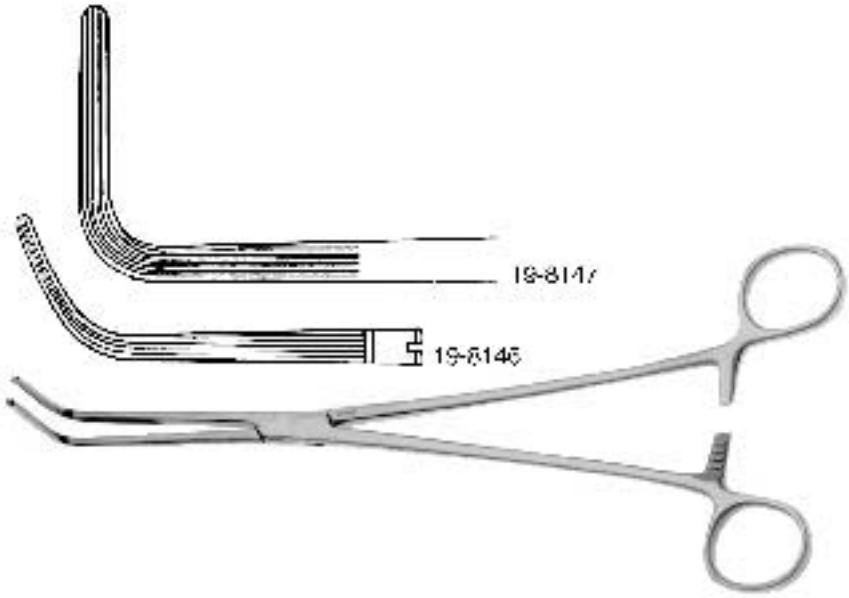


30-8049 HARRINGTON Thoracic Clamp Forceps, right angled, longitudinal serrations with cross-serrated tips.
Length 12″ (305mm)

FORCEPS, THORACIC



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



MIXTER Thoracic Clamp Forceps, angular, longitudinal serrations.
Length 11″ (279mm)
19-8146 Soft jaw, cross-serrated tips, angular.
19-8147 Standard jaw, angular.



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



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

32-3547	WILLAUER-ALLIS Forcep		
	Length	14″	(35.6cm)
	Teeth	3 × 3	



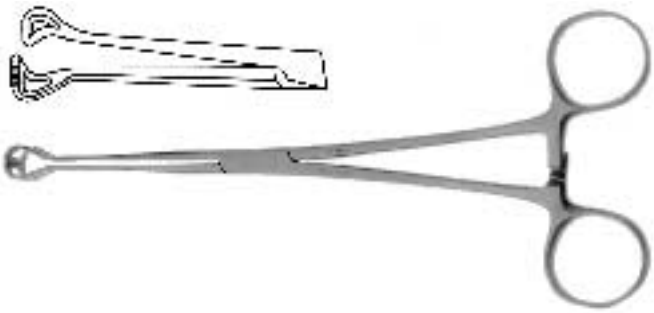


30-8085	WILLAUER-ALLIS Thoracic Tissue Forceps		
	Tip width		8mm
	Length	10″	(254mm)

FORCEPS, TISSUE



	BABCOCK Tissue Forcep, serrated, straight		
32-3544	Length	12″	(30.5cm)
32-3545	Length	14″	(35.6cm)



	BABCOCK CLASSIC® Tissue Forceps		
	Bright Finish		
33-7030	Length	9½″	(242mm)
	Low-Glare Finish		
34-7030	Length	9½″	(242mm)
	Standard Line		
32-7030	Length	9½″	(242mm)



	BROWN Tissue Forceps, parallel multiple teeth.		
30-4202	Tip width		3.4mm
	Length	10″	(254mm)



	CODMAN OPTI-LENGTH Forcep, General Surgery		
	Tip Width	Length	
67-7584	2mm	10″	(25.4cm)
67-7585	3mm	10″	(25.4cm)
67-7586	2mm	12″	(30.5cm)
67-7587	3mm	12″	(30.5cm)

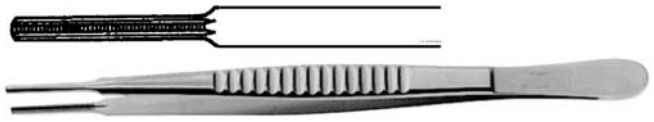
32-3550 DEBAKEY Thoracic Tissue Forcep
Length 14″ (35.6cm)



DeBAKEY CLASSIC™ Thoracic Tissue Forceps

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.



32-3549 DEBAKEY-COLLIER Tissue Forcep, Serrated, Angled
Length 14″ (35.6cm)



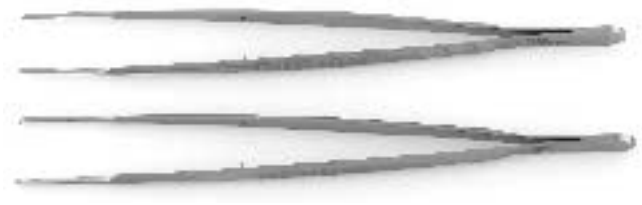


36-6020 EVANS CLASSIC PLUS® Tissue Forceps, tungsten carbide inserts.
Tip width 2mm
Length 10″ (254mm)

GERALD Tissue Forcep, tungsten carbide insert
Tip width .1cm
32-3532 Length 10″ (25.4cm)



FORCEPS, TISSUE



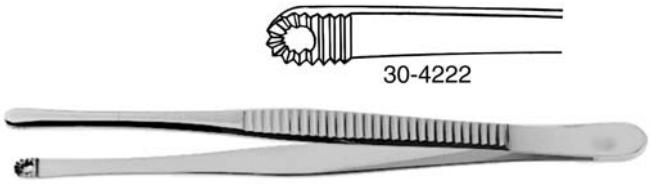
GERALD Forcep, Delicate Tissue
Length 9¼″ (23.5cm)

32-3558 1X2 Teeth
32-3559 Serrated Tip



POTTS-SMITH Tissue Forceps, 1x2 teeth.

30-8123 Tip width 1.8mm
Length 12″ (305mm)



RUSSIAN Tissue Forceps

30-4222 Tip width 7.2mm
Length 10″ (254mm)



32-3543 RUSSIAN Tissue Forcep
Length 14″ (35.6cm)



SELMAN Forcep, Tissue, Non-Slip, Round Tip

32-3557 Length 10″ (25.4cm)



TISSUE Forceps, 1x2 teeth.

30-4156 Tip width 3.1mm
Length 10″ (254mm)
30-4157 Tip width 3.9mm
Length 12″ (305mm)

FORCEPS, TISSUE

32-3542	Tissue Forcep, 1X2 Teeth		
	Length	14″	(35.6cm)



FORCEPS, VASCULAR

	DeBAKEY CLASSIC™ Vascular Tissue Forceps		
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		
30-8133	Length	9½″	(241mm)

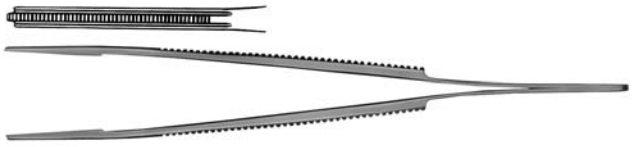
Tips taper from 1.5mm to 1.3mm for the distal 2.0cm. Useful with very delicate vessels or sutures.

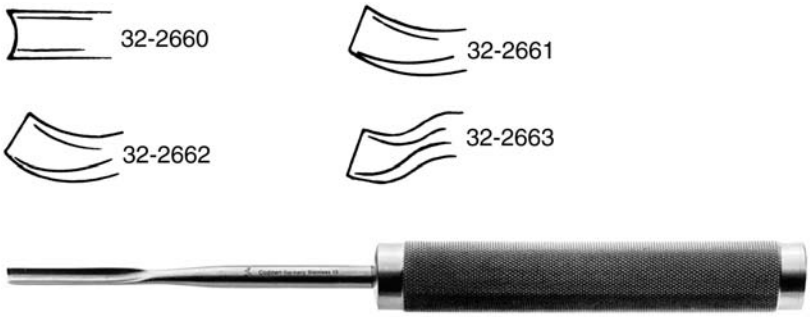


	DEBAKEY-DIETHRICH Vascular Tissue Forcep, Delicate tip		
	Tip width	Length	
32-3537	.1cm	9½″	(24.1cm)



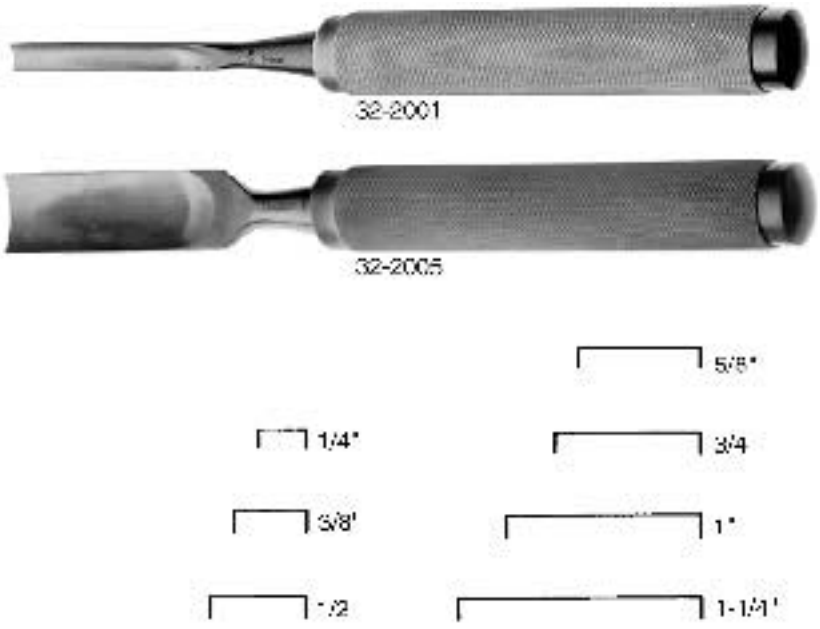
	DeBAKEY-LIDDICOAT Vascular Forceps, 1x2 vascular teeth, straight, titanium.			
30-8404	Fine	Tip width		1.8mm
		Length	9½″	(241mm)
30-8405	Regular	Tip width		2.25mm
		Length	9½″	(241mm)





	COBB Spinal Gouges		
	Tip width	¼″	(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.



	CODMAN Bone Gouges		
	Length	11″	(279mm)
Straight	Curved	Tip width	
32-2000	**32-2010**	¼″	(6mm)
32-2001	**32-2011**	⅜″	(10mm)
32-2002	**32-2012**	½″	(13mm)
32-2003	**32-2013**	⅝″	(16mm)
32-2004	**32-2014**	¾″	(19mm)
32-2005	**32-2015**	1″	(25mm)
32-2006	**32-2016**	1¼″	(32mm)

Fits in Codman sterilizing and carrying case 21-1020.

Codman

HOOK, BONE

	Bone Hook	Hook Diameter	Length
32-3422	Large—Sharp,	6.0cm	8½″ (21.5cm)
32-3423	Heavy Duty—Sharp,	1.9cm	9″ (22.9cm)
32-3424	Heavy Duty—Blunt,	1.9cm	9″ (22.9cm)
32-3425	Heavy Duty—Sharp,	3.0cm	9″ (22.9cm)



HOOKS, NERVE



38-1088 SMITHWICK Nerve Hook and Dissector, double-ended, blunt.

Length	12″	(305mm)
Hook length	7/16″	(11mm)
Tip diameter		(.02mm)

NEEDLE HOLDERS

32-3685 CRILE-WOOD Needle Holder, tungsten carbide insert

Length	14″	(35.6cm)



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

36-2004	Length	10″	(254mm)
36-2005	Length	12″	(305mm)



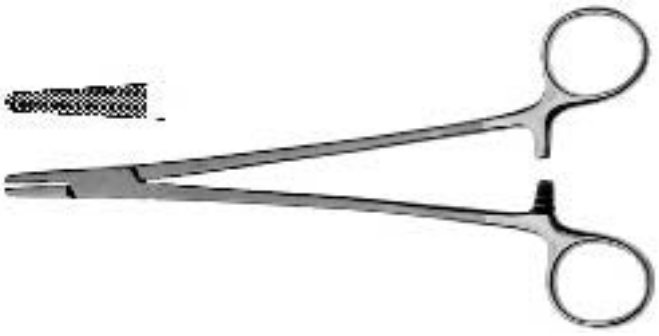
NEEDLE HOLDERS



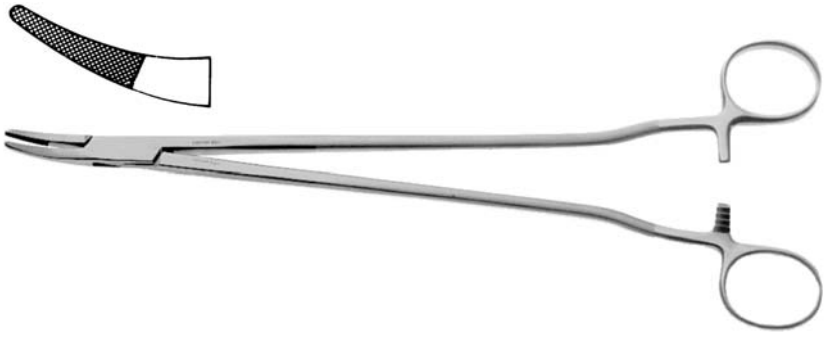
32-3687 HEANEY Needle Holder, Curved, Serrated
Length 14″ (35.6cm)



32-3686 MAYO-HEGAR Needle Holder, tungsten carbide insert
Length 14″ (35.6cm)



MAYO-HEGAR CLASSIC PLUS®
Needle Holders, tungsten carbide jaw inserts.
36-2019 Length 10″ (254mm)
36-2020 Length 12″ (305mm)



ROGERS CLASSIC PLUS® Needle Holders, tungsten carbide jaw inserts, curved jaws.
36-4011 Length 10½″ (267mm)

	RYDER CLASSIC PLUS® Needle Holders, tungsten carbide jaw inserts, serrated jaw. Tip size 1.5mm.		
36-3005	Jaw width		(2mm)
	Total length	10″	(254mm)



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



32-3682	STRATTE Needle Holder, Double Bend, Curved		
	Length	9″	(22.9cm)



NEEDLE HOLDERS

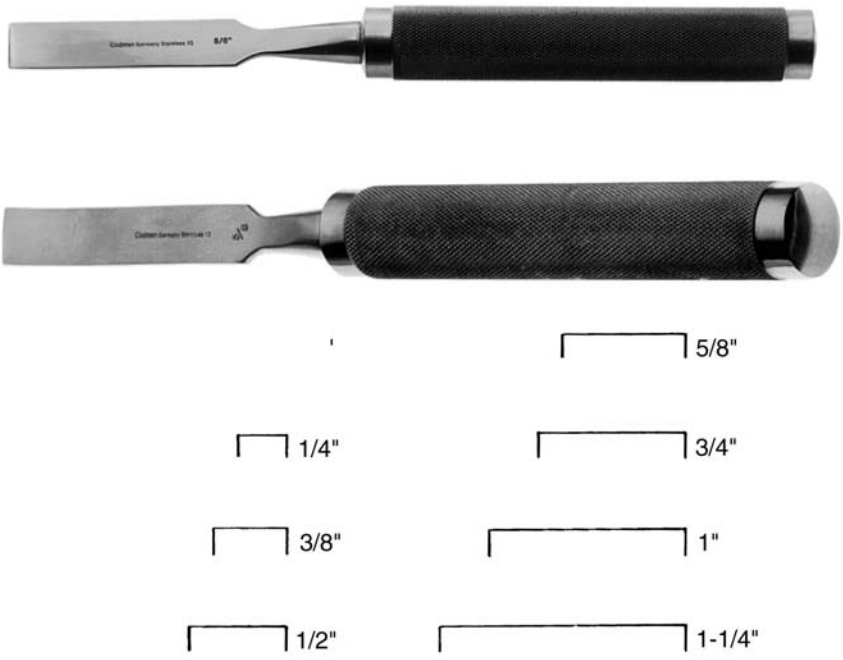


36-4020	WANGENSTEEN CLASSIC PLUS® Needle Holder, tungsten carbide jaw inserts. Length	10½″	(267mm)

OSTEOTOMES



21-2500	CODMAN Gouge and Osteotome Case, holds seven SMITH-PETERSEN gouges or osteotomes.		
	Length	9″	(229mm)
	Width	6⅞″	(175mm)
	Depth	2¼″	(57mm)



	CODMAN Osteotomes, straight.		
	Length	11″	(279mm)
46-2000	Tip width	¼″	(6mm)
46-2001	Tip width	⅜″	(10mm)
46-2002	Tip width	½″	(13mm)
46-2003	Tip width	⅝″	(16mm)
46-2004	Tip width	¾″	(19mm)
46-2005	Tip width	1″	(25mm)
46-2006	Tip width	1¼″	(32mm)
	CODMAN Osteotomes, curved.		
	Length	11″	(279mm)
46-2010	Tip width	¼″	(6mm)
46-2011	Tip width	⅜″	(10mm)
46-2012	Tip width	½″	(13mm)
46-2013	Tip width	⅝″	(16mm)
46-2014	Tip width	¾″	(19mm)
46-2015	Tip width	1″	(25mm)
46-2016	Tip width	1¼″	(32mm)

Fits in Codman sterilizing and carrying case 21-1020.

	CODMAN Spinal Fusion Osteotomes			
		Blade Width	Length	
46-1022	Straight	8mm	9½″	(241mm)
46-1023	Slightly curved	6mm	9½″	(241mm)
46-1024	Full curved	8mm	9½″	(241mm)
46-1025	Straight	6mm	9½″	(241mm)
46-1026	Curved	6mm	9½″	(241mm)
46-1019	Straight	10mm	9½″	(241mm)



PROBES

	PROBES with eye.		
49-4037	Length	10″	(254mm)

RETRACTOR



50-1362	CODMAN ADSON Retractor		
	Length	9½″	(240mm)
	Total opening	5″	(120mm)
	Shank angle 65°		
	3 x 3 sharp prongs		

RETRACTORS, 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	3¼″	(82mm)
	Center blade depth	2½″	(64mm)
	Total opening	10½″	(267mm)



	DEAVER Retractors, ring-grip handle.		
	Length	12″	(305mm)
50-4316	No. 1 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)



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

32-3635	DEAVER Retractor	
	Blade Length	2½″ (6.4cm)
	Handle Length	14½″ (36.8cm)



RETRACTORS, ABDOMINAL



	HARRINGTON Splanchnic Retractors		
	Length	12½″	(318mm)
50-8100	Blade width	1½″	(38mm)
50-8102	Blade width	2½″	(64mm)



	KELLY Retractors, standard handle.		
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)



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



	RICHARDSON Retractors, standard handle.		
50-4122	Blade width	1½″	(38mm)
	Blade depth	1¾″	(44mm)
	Length	9½″	(241mm)



	RICHARDSON-EASTMAN Retractors, double-ended, set of two.		
	Small		
	Blade width	⅞″	(22mm)
	Blade depth	1 5⁄16″	(24mm)
	Blade width	1½″	(38mm)
	Blade depth	1⅝″	(41mm)
	Length	10″	(254mm)
	Large		
	Blade width	1¾″	(44mm)
	Blade depth	2½″	(64mm)
	Blade width	1 3⁄16″	(30mm)
	Blade depth	1 3⁄16″	(30mm)
	Length	10½″	(267mm)

RETRACTORS, ABDOMINAL, BLADE



	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, ABDOMINAL, BLADE

50-4524	HORGAN Malleable Center Blade		
	Blade width	2″	(51mm)
	Blade length	7¾″	(197mm)
	Length	14¾″	(375mm)



RETRACTOR, BOOKWALTER, OBESE PATIENT

BW1046BKIT	BOOKWALTER™ Obese Patient RETRACTOR SYSTEM [18″ Table Post] (for obese patients) Kit Includes:
BW0144005	BOOKWALTER 18″ Table Post
BW1043016	BOOKWALTER 2″x10″ Malleable Blade
BW1043029	BOOKWALTER 3″x10″ Malleable Blade
BW1045069	BOOKWALTER 4″x8″ Malleable Blade
BW1045000	BOOKWALTER 2″x8″ Kelly Blade
BW1271017	BOOKWALTER 3½″x2¾″ Balfour Blade
BW1045176	BOOKWALTER 3½″x10″ Harrington Blade
BW0338014	BOOKWALTER Ratchet Extender
BW0338015	BOOKWALTER Twister Ratchet
50-4552	Horizontal Bar
50-4554	Post Coupling
50-4557	Medium Oval Ring
50-4568	2″X3″ Kelly Blade
50-4569	2″X4″ Kelly Blade
50-4580	Tilt Rachet Mechanism [6ea.]



See the Bookwalter Section of this catalog for a complete listing of our Bookwalter Products

RETRACTOR, BOOKWALTER, OBESE PATIENT



BW1046BRT	BOOKWALTER Obese Patient Accessories [18″ Table Post] (for obese patients) Kit Includes:
BW0144005	BOOKWALTER 18″ Table Post
BW1043016	BOOKWALTER 2″x10″ Malleable Blade
BW1043029	BOOKWALTER 3″x10″ Malleable Blade
BW1045069	BOOKWALTER 4″x8″ Malleable Blade
BW1045000	BOOKWALTER 2″x8″ Kelly Blade
BW1271017	BOOKWALTER 3½″x2¾″ Balfour Blade
BW1045176	BOOKWALTER 3½″x10″ Harrington Blade
BW0338014	BOOKWALTER Ratchet Extender
BW0338015	BOOKWALTER Twister Ratchet

See the Bookwalter Section of this catalog for a complete listing of our Bookwalter Products



BW1045BKIT	BOOKWALTER Obese Patient RETRACTOR SYSTEM [24″ Table Post] (for obese patients) Kit Includes:
BW0144003	BOOKWALTER 24″ Table Post
BW1043016	BOOKWALTER 2″x10″ Malleable Blade
BW1043029	BOOKWALTER 3″x10″ Malleable Blade
BW1045069	BOOKWALTER 4″x8″ Malleable Blade
BW1045000	BOOKWALTER 2″x8″ Kelly Blade
BW1271017	BOOKWALTER 3½″x2¾″ Balfour Blade
BW1045176	BOOKWALTER 3½″x10″ Harrington Blade
BW0338014	BOOKWALTER Ratchet Extender
BW0338015	BOOKWALTER Twister Ratchet
50-4552	Horizontal Bar
50-4554	Post Coupling
50-4557	Medium Oval Ring
50-4568	2″X3″ Kelly Blade
50-4569	2″X4″ Kelly Blade
50-4580	Tilt Rachet Mechanism [6ea.]

See the Bookwalter Section of this catalog for a complete listing of our Bookwalter Products

RETRACTOR, BOOKWALTER, OBESE PATIENT

BW1045BRT	BOOKWALTER Obese Patient Accessories [24″ Table Post] (for obese patients) Kit Includes:
BW0144003	BOOKWALTER 24″ Table Post
BW1043016	BOOKWALTER 2″x10″ Malleable Blade
BW1043029	BOOKWALTER 3″x10″ Malleable Blade
BW1045069	BOOKWALTER 4″x8″ Malleable Blade
BW1045000	BOOKWALTER 2″x8″ Kelly Blade
BW1271017	BOOKWALTER 3½″x2¾″ Balfour Blade
BW1045176	BOOKWALTER 3½″x10″ Harrington Blade
BW0338014	BOOKWALTER Ratchet Extender
BW0338015	BOOKWALTER Twister Ratchet



See the Bookwalter Section of this catalog for a complete listing of our Bookwalter Products

RETRACTOR, BOOKWALTER, BLADES/ACCESSORIES



	BOOKWALTER OPTI-LENGTH Retractor Blades, Malleable, with Lip Length 11″ (27.9cm) Blade/Jaw Width
67-7499	3″
67-7500	4″
67-7502	1½″
67-7504	2″

RETRACTOR, CEREBELLAR



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)

Codman

RETRACTOR, GENERAL PURPOSE



	RIBBON Malleable Retractors		
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)

RETRACTOR, LAMINECTOMY

	BECKMAN-ADSON Laminectomy Retractors, self-retaining with hinged arms.		
50-1160	Four prong, blunt blades		
	Blade width	1″	(25mm)
	Blade depth	1¼″	(32mm)
	Total opening	5″	(127mm)
	Length	12⅛″	(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	1¾″	(44mm)
	Total opening	5½″	(140mm)
	Length	12″	(305mm)



RETRACTOR, LAMINECTOMY



50-1163	BECKMAN-EATON Laminectomy Retractor, self-retaining with hinged arms. Seven prong blades		
	Blade width	1¾″	(44mm)
	Blade depth	1⅞″	(48mm)
	Total opening	5½″	(140mm)
	Length	12¾″	(324mm)



	MEYERDING Laminectomy Retractors		
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)

RETRACTOR, LUNG



	ALLISON Lung Retractors		
50-8152	Small		
	Length	10½″	(260mm)
50-8153	Large		
	Length	12½″	(318mm)

RETRACTOR, NERVE ROOT



50-1331	HOLSHER Nerve Root Retractor		
	Blade width	5⁄16″	(7mm)
	Length	9¾″	(248mm)

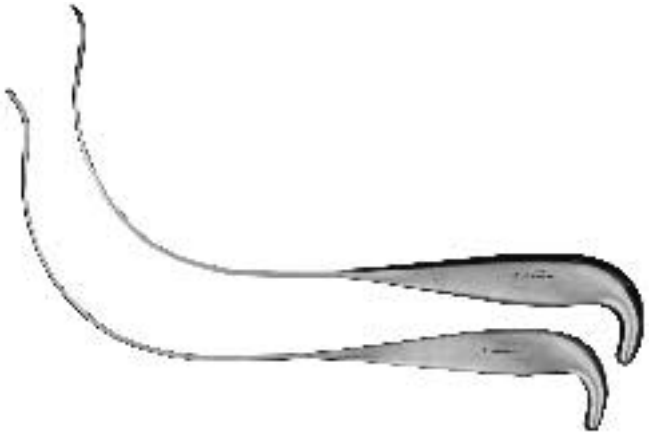
RETRACTOR, OBSTETRIC

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



RETRACTOR, ORTHOPEDIC

	COBRA Retractors		
	Length	10¼″	(26cm)
37-4105	Sharp, 1.25″ tip		
37-4106	Blunt, 1.25″ tip		

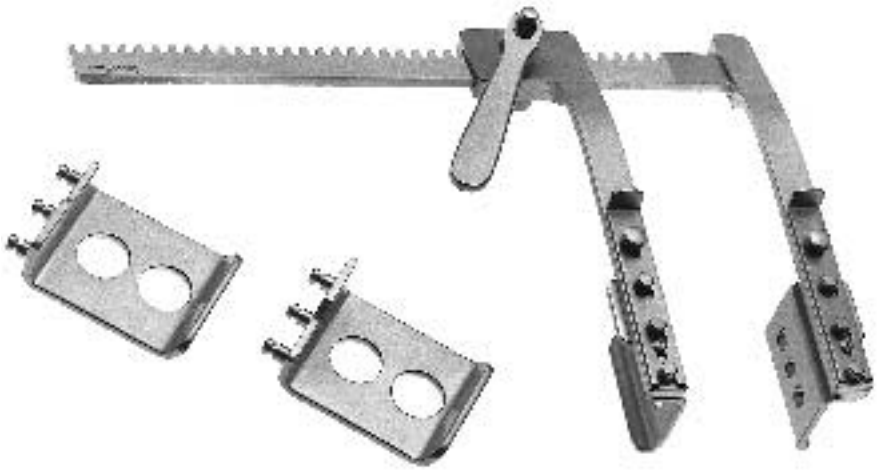


RETRACTOR, RECTAL



50-5671	SAWYER Rectal Retractor		
	Blade width	1⅛″	(29mm)
	Blade depth	3⅛″	(79mm)
	Length	12″	(305mm)

RETRACTOR, RIB



50-8031 BURFORD-FINOCHIETTO Rib Retractor, self-retaining with rack and pinion action, standard, curved arms with two sets of detachable blades.

Arm length	9¾″	(248mm)
Large blade width	2½″	(64mm)
Large blade depth	2⅘″	(71mm)
Small blade width	2½″	(64mm)
Small blade depth	1⅗″	(40mm)
Total opening	10″	(254mm)



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)

50-8040 HARKEN Rib Retractor, self-retaining with rack and pinion action. Complete with two fixed and two detachable scapular blades.

Arm length	9¾″	(248mm)
Fixed blade width	3″	(76mm)
Fixed blade depth	2″	(51mm)
Scapular blade width	2″	(51mm)
Scapular blade depth	1½″	(38mm)
Total opening	10″	(254mm)



RETRACTOR, STERNAL



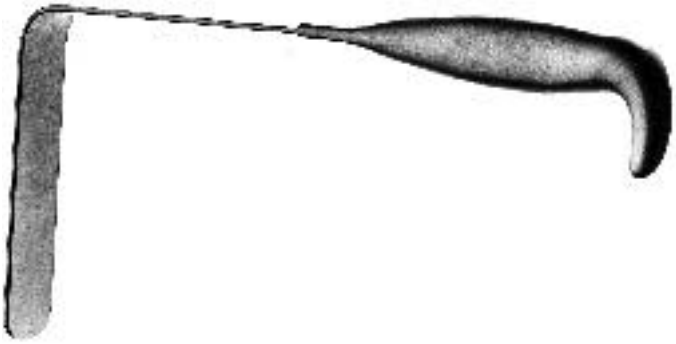
	ANKENEY Sternal Retractor, self-retaining with rack and pinion action. Complete with six detachable swivel blades, and one pair of springs on each arm.		
50-8069	Adult size		
	Arm length	11½″	(292mm)
	Spring length	3¼″	(83mm)
	Total opening	7″	(178mm)
	Blade width	1⅜″	(35mm)
	Blade depth	1¼″	(32mm)
50-8070	ANKENEY Sternal Retractor Blades, set of six.		
	Blade width	1⅜″	(35mm)
	Blade depth	2″	(52mm)

RETRACTOR, THYROID



50-1165	BECKMAN Thyroid Retractor, self-retaining with hinged arms. Four prong, sharp blades		
	Blade width	¾″	(19mm)
	Blade depth	1″	(25mm)
	Total opening	5½″	(140mm)
	Length	12″	(305mm)

RETRACTOR, VAGINAL (HYSTERECTOMY)



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

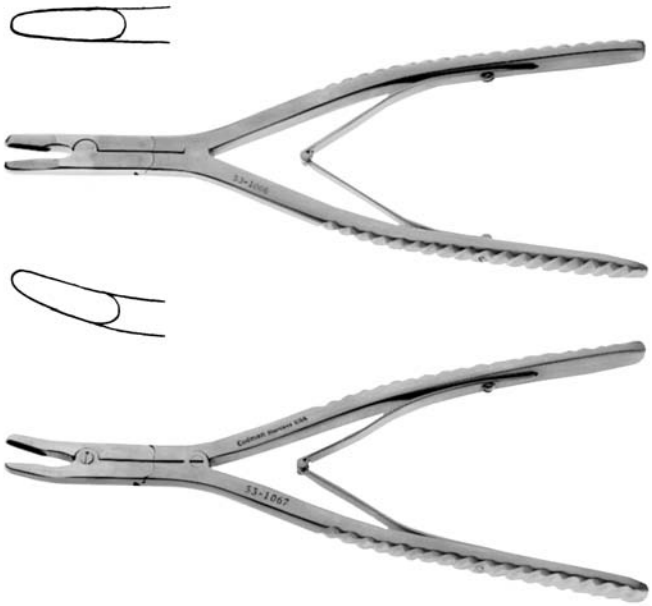
RETRACTORS, VEIN

	CUSHING Retractor Jaw	Length	
32-3633	1.0cm	11″	(28.0cm)
32-3634	1.1cm	14″	(35.5cm)



RONGEURS, BONE, DOUBLE ACTION

	FULTON Laminectomy Rongeurs, cup size 15mm x 16mm narrow blade, double-action. Length	9½″	(241mm)
53-1066	Straight		
53-1067	Slightly curved		



	STILLE-HORSLEY Bone Cutting Forceps, double-action, curved shaft, angular jaw. Length	10½″	(267mm)
30-1298			



RONGEURS, BONE, DOUBLE ACTION



	STILLE-LISTON Bone Cutting Forceps, double-action.		
	Length	10½″	(267mm)
30-1295	Straight		
30-1296	Curved		



	STILLE-LUER Rongeurs		
	Bite		5mm
	Length	9½″	(229mm)
53-1133	Angular		
53-1118	Angular, flat lower jaw		

RONGEURS, BONE, DOUBLE ACTION

	SMITH-PETERSEN Laminectomy Rongeurs, double-action.		
	Length	9½″	(241mm)
53-1083	Straight		
53-1084	Slightly curved		
53-1085	Full curve		



RONGEURS, IVD



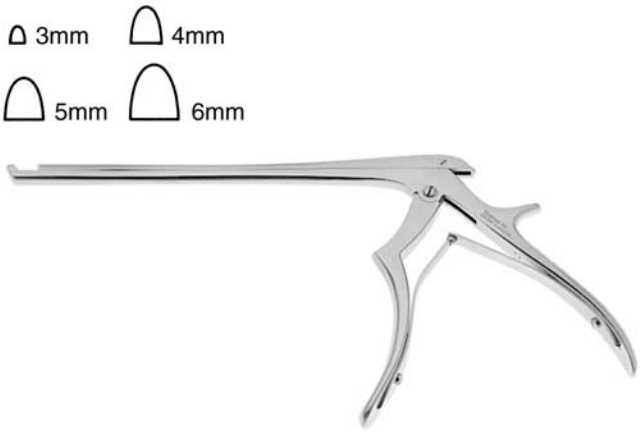
67-7324	CLOWARD OPTI-LENGTH Rongeur, IVD, 6X10 Cup		
	Length	11″	(27.9cm)

	LOVE-GRUENWALD OPTI-LENGTH Rongeur, IVD		
	Length	11″	(27.9cm)
67-7319	Straight, 3X10 Cup		
67-7320	300 up bite, 3x10 Cup		



	SPURLING OPTI-LENGTH Rongeur, IVD		
	Length	11″	(27.9cm)
67-7321	Straight, 4X10 Cup		
67-7322	Up Biting, 4X10 Cup		

RONGEURS, LUMBAR, KERRISON



	CODMAN Lumbar KERRISON Rongeurs HARDY style handle with ball spring		
	Bite Size	Angle	Shaft Length
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)



	KERRISON OPTI-LENGTH Rongeur, Lumbar		
		Length	
67-7267	2mm 40° up bite	10″	(25.4cm)
67-7270	3mm 40° up bite	10″	(25.4cm)
67-7273	4mm 40° up bite	10″	(25.4cm)
67-7276	5mm 40° up bite	10″	(25.4cm)
67-7282	2mm 40° up bite	12″	(25.4cm)
67-7285	3mm 40° up bite	12″	(30.5cm)
67-7288	4mm 40° up bite	12″	(30.5cm)



	KERRISON OPTI-LENGTH Rongeur, Lumbar		
	Length	15″	(38.1cm)
67-7325	1mm 40° up bite		
67-7326	2mm 40° up bite		
67-7327	3mm 40° up bite		
67-7328	4mm 40° up bite		
67-7329	6mm 40° up bite		
67-7330	1mm 90° up bite		
67-7331	2mm 90° up bite		
67-7332	3mm 90° up bite		
67-7333	4mm 90° up bite		
67-7334	6mm 90° up bite		

RONGEURS, RIB



56-8040	DALE First Rib Rongeur, double-action.		
	Bite	⅛″	3mm
	Length	14½″	(368mm)

SCISSORS, DISSECTING

32-3576	DEBAKEY-METZENBAUM Scissor, tungsten carbide edges, straight		
	Length	12¼″	(31.1cm)



	MAYO-HARRINGTON Scissor		
	Length	14″	(35.6cm)
32-3592	Straight		
32-3593	Curved		



	METZENBAUM Scissor		
		Length	
32-3594	Curved	12¼″	(31.1cm)
32-3595	Curved	13⅞″	(35.5cm)
32-3596	Surer Cut, Curved	13⅞″	(35.5cm)



SCISSORS, DISSECTING



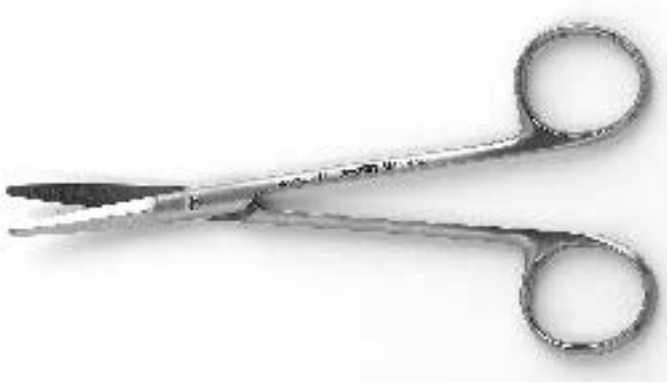
METZENBAUM Dissecting Scissors
Curved

54-1037	Length	11″	(279mm)



NELSON CLASSIC PLUS® Scissors,
STELLITE™ edge inserts, curved.

	Length	11″	(279mm)
36-5070	Standard		
36-5071	Delicate		



POTTS-SMITH Scissor, Dissecting, Curved

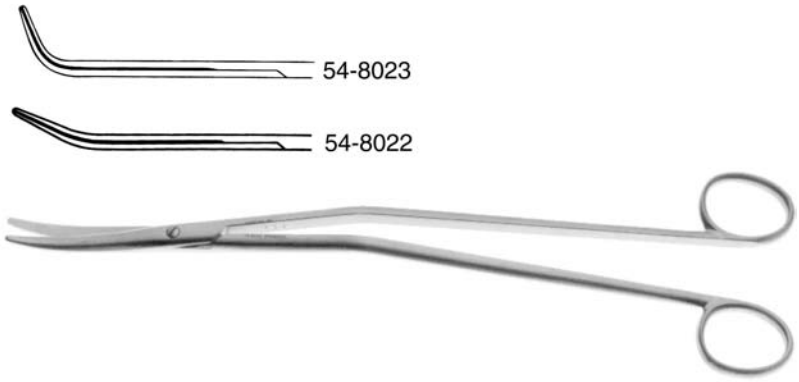
	Length	
32-3588	11¼″	(28.6cm)

SCISSORS, DISSECTING

32-3582	SATINSKY Scissor, Full Curved		
	Length	9¾″	(24.8cm)



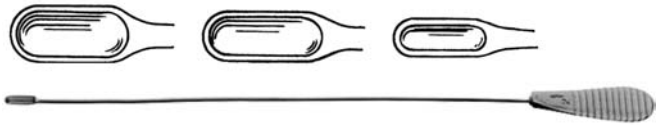
SCISSORS, VALVE



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

SCOOPS

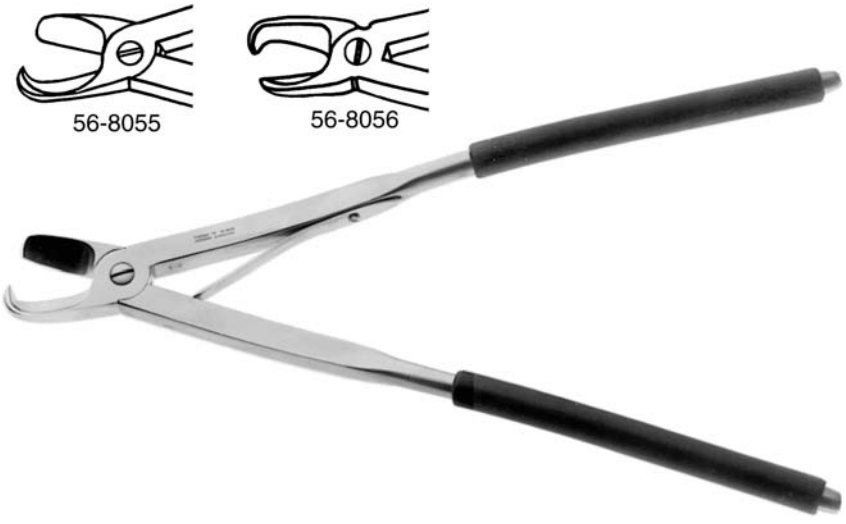
	MAYO Common Duct Scoops, malleable shaft, silver plated.		
	Length	10½″	(267mm)
76-4025	Small		(4.3mm)
76-4026	Medium		(5.3mm)
76-4027	Large		(7.4mm)



SHEARS, RIB



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



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

SHEARS, RIB

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



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



SOUNDS, UTERINE



SIMPSON Uterine Sound, silver plated.
Length 13⅜″ (340mm)
58-5669 Graduated in centimeters

SPATULAS/SPOONS AND ELEVATORS, BRAIN



59-1000 WOODSON Elevator and Spatula, double-ended, semi-sharp.
Blade width ⅛″ (3mm)
Blade depth ½″ (13mm)
Total length 10″ (254mm)

SPECULA, VAGINAL



	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)

SPREADERS



	INGE Lamina Spreaders		
61-2516	Total jaw opening	1¼″	(32mm)
	Length	6¼″	(159mm)
61-2515	Total jaw opening	2½″	(64mm)
	Length	9½″	(241mm)

SPREADERS



61-2525	LAMINA Spreader		
	Total jaw opening	2″	(51mm)
	Length	9½″	(241mm)

SUCTION, TUBES



67-7675	ANDREWS-PYNCHON OPTI-LENGTH Suction Tube		
	Length	11″	(27.9cm)

70-6560	ANDREWS-PYNCHON Suction Tube.		
	Length	9½″	(241mm)





	CODMAN Suction Tube Working Distance	Length	
32-3360	24.8cm	12″	(30.5cm)
32-3361	32.3cm	15″	(38.0cm)

SUCTION, TUBES



70-8035 COOLEY Graft Suction Tube, open end, small side opening.

Distal tip diameter	5/16″	(8mm)
Length	12″	(305mm)



70-8038 COOLEY Left Ventricular Sump Suction Tube, perforated tip, 30° angle.

Diameter	5/16″	(8mm)
Length	11 3/8″	(289mm)



67-7677 COOLEY OPTI-LENGTH Left Ventricular Sump, Perforated, 45°

Tip Width	5/16	
Length	19 3/4″	(50.2cm)



70-8036 COOLEY Vascular Suction Tube, round perforated end.

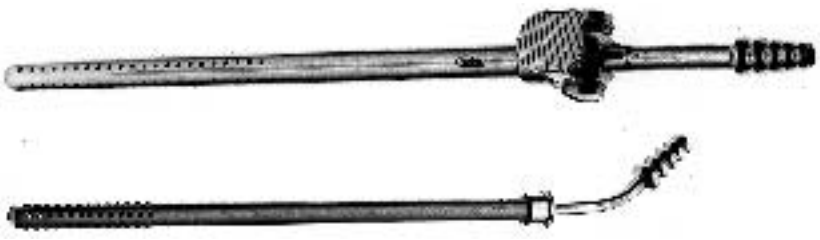
Diameter	1/4″	(6mm)
Length	11 1/2″	(292mm)



70-8040 METHODIST Vascular Suction Tube

Diameter	3/8″	(10mm)
Length	10″	(254mm)

Replacement tips may be ordered through the Repair Department.



	POOL Suction Tubes.		
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)

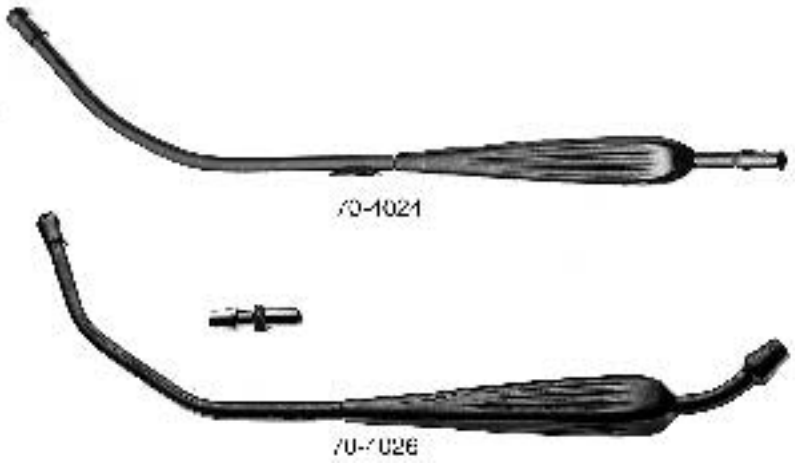
	SACHS Suction Tubes, with thumb piece to control suction.		
	Shaft length	9⅝″	(241mm)
70-1160	Diameter	8 Fr.	
	Tip length	4″	(102mm)
70-1161	Diameter	15 Fr.	
	Tip length	4½″	(114mm)



32-3362	YANKAUER, Suction Tube with thumb control		
	Working Distance	5⅞″	14.8cm
	Length	12¾″	32.5cm



SUCTION, TUBES



	YANKAUER Suction Tubes with removable tip, (on 70-4026 only).		
70-4026	Standard		
	Length	10 3/8″	(264mm)
70-4024	With thumb control		
	Length	11 1/4″	(286mm)

Replacement tips are available through Repair Department.

TOURNIQUETS



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

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)





PEDIATRIC

METRIC
INCHES
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

CALIPER

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



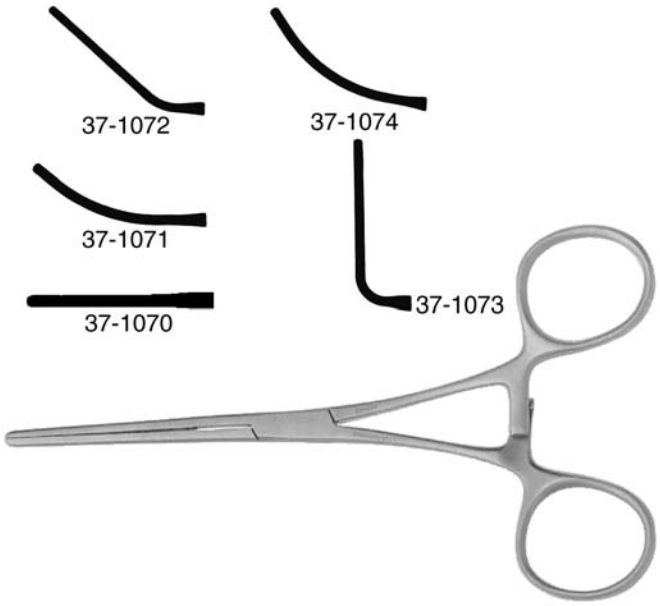
CLAMPS, A-V FISTULA

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



CLAMPS, BULLDOG

	DeBAKEY CLASSIC™ Bulldog Clamps, ring handle, 1x2 vascular teeth.		
37-1070	Straight		
	Jaw length	1 9/16″	(38mm)
	Total length	5⅜″	(137mm)
37-1071	Curved		
	Jaw length	1 9/16″	(38mm)
	Total length	5″	(127mm)
37-1072	Angled 45°, curved shafts.		
	Jaw length	1⅝″	(41mm)
	Total length	5″	(127mm)
37-1073	Angled 90°, straight shafts.		
	Jaw length	1⅝″	(41mm)
	Total length	3¾″	(95mm)
37-1074	S-shaped, curved jaws, curved shafts.		
	Jaw length	1 9/16″	(38mm)
	Total length	5″	(127mm)



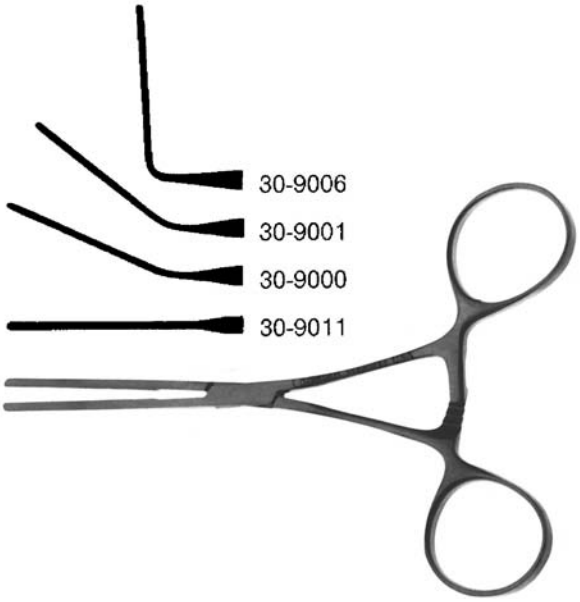
CLAMPS, CARDIOVASCULAR



	CODMAN Clamp, similar to FOGARTY* Hydragrip®. Requires 33mm jaw inserts.		
37-4015	Angled jaw Length	4⅝″	(11.8cm)

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

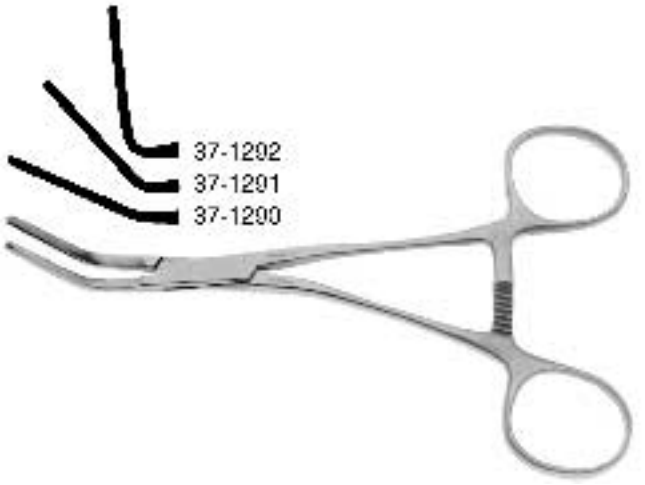
CLAMPS, MULTI-PURPOSE



	CASTANEDA Multi-Purpose Clamps		
	Jaw length	1⅜″	(35mm)
	Total length	5″	(127mm)
30-9000	30° angle		
30-9001	50° angle		
30-9006	90° angle		
30-9011	Straight		

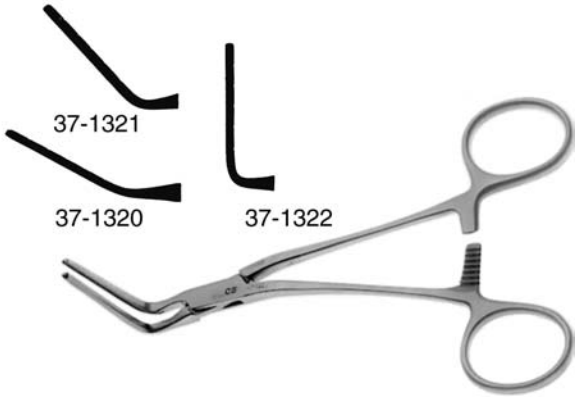
COOLEY CLASSIC™ Multi-Purpose Clamps, calibrated jaws, 2x2 vascular teeth.

37-1291	60° angle		
	Jaw length	1 3/16″	(30mm)
	Total length	6″	(152mm)
37-1292	90° angle		
	Jaw length	1 3/16″	(30mm)
	Total length	5 1/2″	(140mm)



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

37-1321	60° angle		
	Jaw length	1 3/8″	(35mm)
	Total length	6″	(152mm)
37-1322	90° angle		
	Jaw length	1 3/8″	(35mm)
	Total length	6″	(152mm)

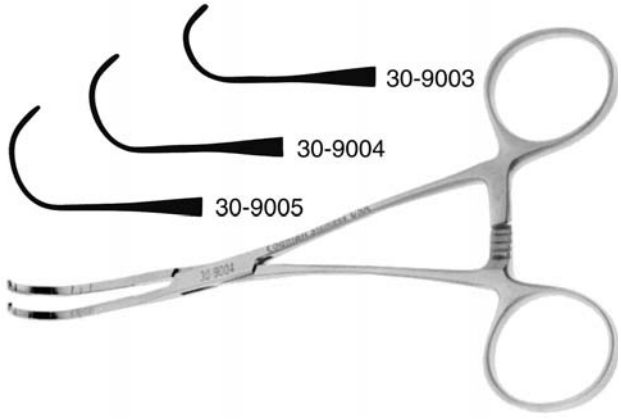


CLAMPS, VASCULAR



37-1305 BARTLEY CLASSIC Anastomosis Clamp, blades calibrated at 5mm intervals, 2x2 vascular teeth.

Jaw length	1″	(25mm)
Jaw depth	½″	(13mm)
Total length	5½″	(140mm)



CASTANEDA Anastomosis Clamps

30-9003	Jaw length	⅝″	(15mm)
	Jaw depth	⅕″	(5mm)
	Total length	6″	(152mm)
30-9004	Jaw length	¾″	(18mm)
	Jaw depth	¼″	(6mm)
	Total length	6″	(152mm)
30-9005	Jaw length	⅞″	(21mm)
	Jaw depth	⅓″	(7mm)
	Total length	6″	(152mm)



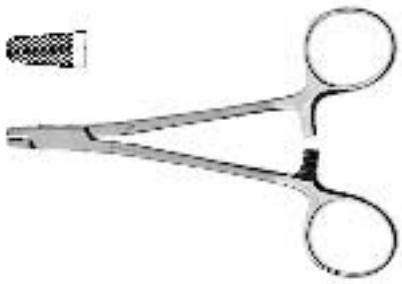
30-9002 CASTANEDA Partial Occlusion Clamp, spoon-type.

Jaw length	1 5⁄16″	(24mm)
Jaw depth	5⁄16″	(8mm)
Total length	4¾″	(121mm)

Codman

CLAMP, WIRE HOLDING

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



DILATORS

25-4002	DELABORDE Tracheal Dilator, tri-valve.		
	Jaw width	3/16″	(5mm)
	Jaw thickness	1/4″	(6mm)
	Total spread	11 5/16″	(33mm)
	Length	5 1/4″	(133mm)



	TROUSSEAU Tracheal Dilators, bi-valve.		
25-4000	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)



DILATORS, VASCULAR



	GARRETT Vascular Dilators, malleable shaft.		
	Length	5½″	(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)

DRILLS/BURRS/GUIDES

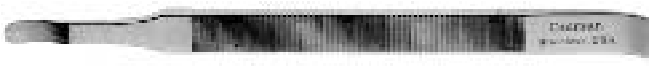


26-1085	CHILDREN'S HOSPITAL Hand Drill, hexagonal handle, supplied with three (26-1086) twist drills.		
	Handle length	4⅛″	(105mm)
	Twist Drill diameter		(4.2mm)



26-1086	TWIST DRILL for 26-1085		
	Diameter	5⁄16″	(4.2mm)
	Length	3¼″	(83mm)

ELEVATORS



65-2549	CARROLL Periosteal Elevator, double-ended.		
	Blade width	⅛″	(3mm)
	Blade width	⅜″	(10mm)
	Length	5½″	(140mm)

FORCEPS, ALLIGATOR

30-1230	HOEN Angular Forceps, alligator action, 1x2 teeth.		
	Tip width		2.2mm
	Shaft length	5½″	(140mm)



FORCEPS, BIPOLAR

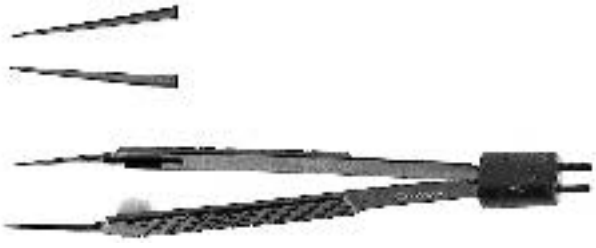
80-2964	ADSON Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		1mm
	Length	4¾″	(120mm)



	COAPTATION Non-Stick Mirror Finish Bipolar Forceps, straight.		
80-2968	Small		
	Tip width		.25mm
	Length	4″	(102mm)



	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



FORCEPS, BIPOLAR





IRIS Non-Stick Mirror Finish Bipolar Forceps, straight.

	Tip width		.6mm
	Length	3⅝″	(92mm)
80-2965	Straight		
80-2966	Curved		



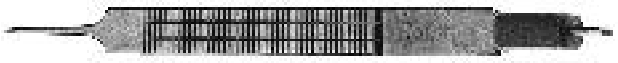
80-2926 JEWELERS #5 Non-Stick Mirror Finish Bipolar Forceps, straight.

Tip width		.35mm
Length	4⅜″	(111mm)



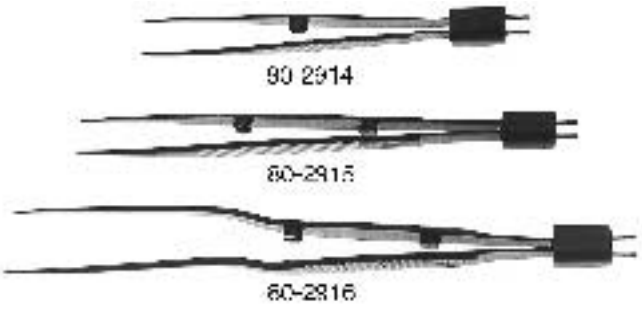
80-2922 MALIS Non-Stick Mirror Finish Bipolar Forceps, straight.

Tip width		.75mm
Length	5″	(127mm)



MALIS Non-Stick Mirror Finish Bipolar Forceps, straight, titanium.

	Length	6″	(152mm)
80-2940	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	.25mm	
	Length	5½″	(140mm)

FORCEPS, BIPOLAR

80-2967	STANDARD Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		.5mm
	Length	4″	(102mm)



FORCEPS, CUP



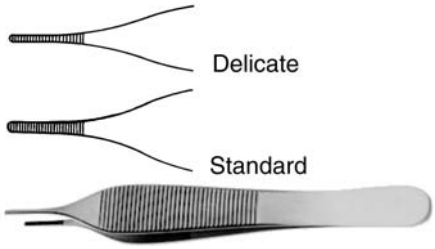
	RHOTON Micro Cup Forceps, alligator action.		
	Shaft length	6″	(152mm)
	Type		Tip Width
53-4005	Straight		1mm
53-4006	Right		1mm
53-4007	Left		1mm
53-4008	Straight		2mm

FORCEPS, DISCECTOMY

80-1654	WILLIAMS Discectomy Forceps, single-toothed cup.		
	Bit size		2mm
	Length	5½″	(140mm)



FORCEPS, DRESSING



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



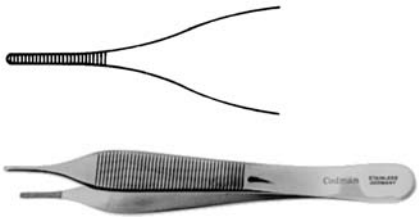
30-4208 CHILDREN'S HOSPITAL CLASSIC®
DELICATE Dressing Forceps, narrow, serrated tips, dissecting end.

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)



30-4215 EWALD-HUDSON Dressing Forceps, serrated.

Tip width		1.7mm
Length	5″	(127mm)

Tip width is measured 1mm from the instrument tip.

Codman

FORCEPS, EAR

30-6951 HARTMANN Ear Forceps, angular, serrated.
Shaft length 3½″ (89mm)
Tip size 3/10″ (7.6mm)

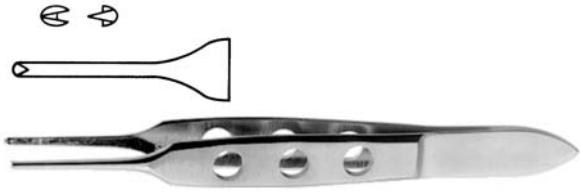


30-6898 LUCAE Ear Forceps, bayonet shape.
Working distance 2¾″ (70mm)
Length 5½″ (140mm)
Tip width 2mm



FORCEPS, EYE

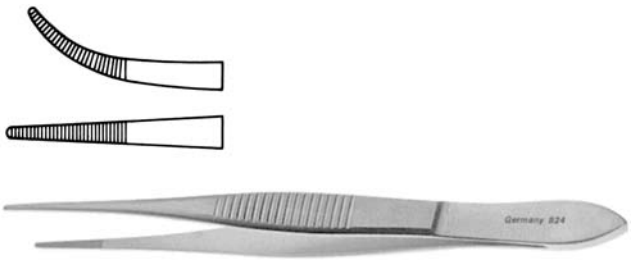
BISHOP HARMAN Iris Forceps, 1x2 teeth.
Length 3¼″ (83mm)
30-6555 Standard Tip width .5mm
30-6556 Delicate Tip width .3mm



30-6557 BISHOP HARMAN Eye Dressing Forceps, straight.
Tip width .4mm
Length 3⅜″ (86mm)



FORCEPS, EYE



EYE Dressing Forceps
Tip width 1mm
Length 4″ (102mm)

30-6520 Straight
30-6524 Curved



30-6695 NUGENT Utility Forceps, smooth jaw, angled tip.
Tip width .5mm
Length 4″ (102mm)



30-6585 VON GRAEFE Fixation Forceps, without teeth.
Tip width 2mm
Length 4¾″ (111mm)

FORCEPS, HEMOSTATIC

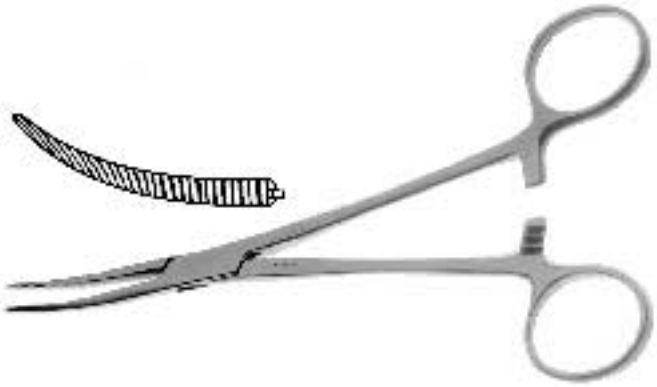


CRILE CLASSIC® DELICATE Hemostatic Forceps
Length 5½″ (140mm)

30-4467 Straight
30-4468 Curved

	CRILE CLASSIC® Hemostatic Forceps			
	Bright Finish			
33-4030	Straight	Length	5½″	(140mm)
33-4031	Curved	Length	5½″	(140mm)
	Low-Glare Finish			
34-4030	Straight	Length	5½″	(140mm)
34-4031	Curved	Length	5½″	(140mm)
	Standard Line			
32-4030	Straight	Length	5½″	(140mm)
32-4031	Curved	Length	5½″	(140mm)

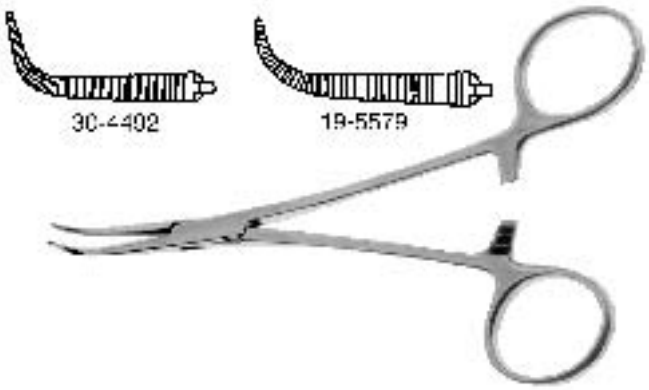




	DANDY™ Scalp Hemostatic Forceps, curved on side.		
	Length	5½″	(140mm)
	Bright Finish		
32-4160	Serrated		
32-4161	1 x 2 teeth		



FORCEPS, HEMOSTATIC



	GEMINI CLASSIC® DELICATE Hemostatic Forceps			
19-5579	Curved	Length	5½″	(140mm)



	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)

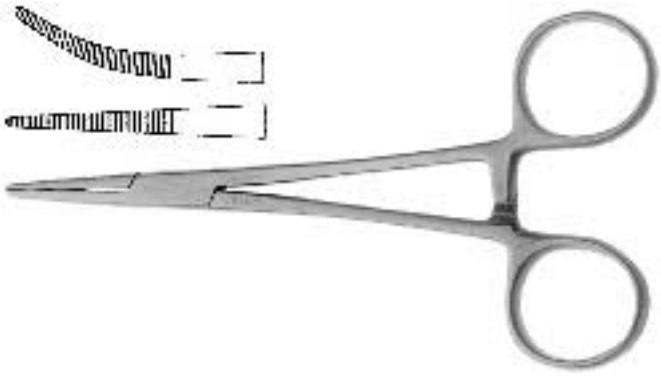
	HALSTED Hemostatic Forceps, 1x2 teeth,		
	Length	5″	(127mm)
30-4105	Straight		
30-4106	Curved		



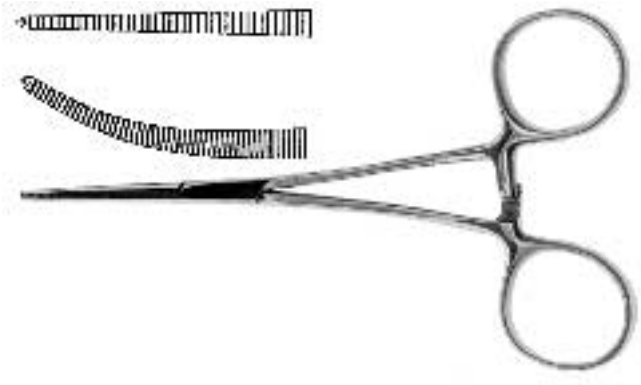
30-1230	HOEN Angular Forceps, alligator action, 1x2 teeth.		
	Tip width		2.2mm
	Shaft length	5½″	(140mm)



	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		



FORCEPS, HEMOSTATIC



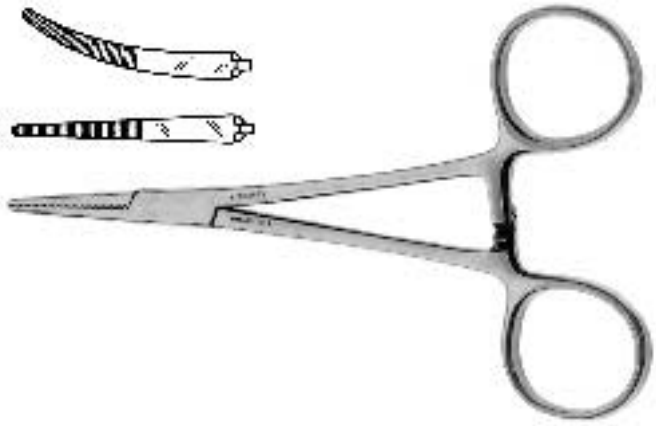
KOCHER CLASSIC® DELICATE Hemostatic Forceps, 1x2 teeth.

	Length	5½″	(140mm)
30-4490	Straight		
30-4491	Curved		



KOCHER™ Hemostatic Forceps, 1 x 2 teeth.

	Length	5½″	(140mm)
	Bright Finish		
32-4100	Straight		



LAHEY Hemostatic Forceps, with full serrations.

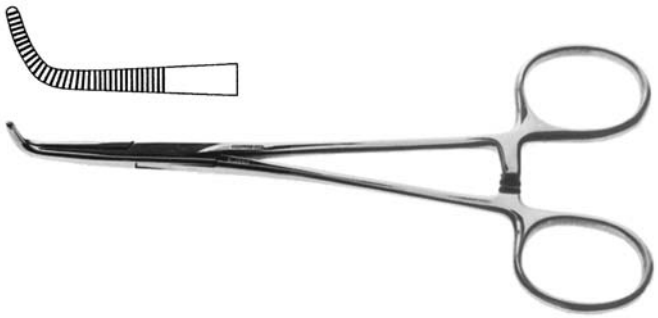
	Length	6″	(146mm)
30-4020	Straight		
30-4021	Curved		

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		



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

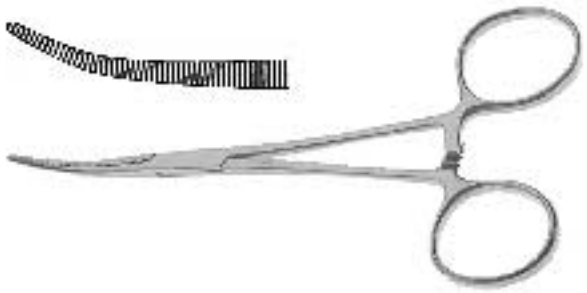


MOSQUITO CLASSIC® DELICATE Hemostatic Forceps

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)



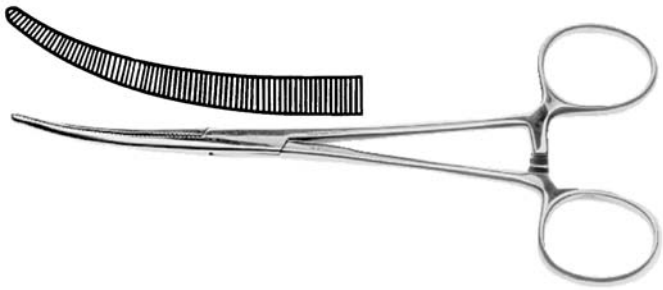
FORCEPS, HEMOSTATIC



30-4462 PEAN CLASSIC® DELICATE
Hemostatic Forceps, curved.
Length 5½″ (140mm)



32-4011 PROVIDENCE HOSPITAL™ Hemostatic
Forceps, Curved
Bright Finish Length 5½″ (140mm)



ROCHESTER-PEAN
Hemostatic Forceps
Standard Line
32-4061 Curved Length 5½″ (140mm)



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

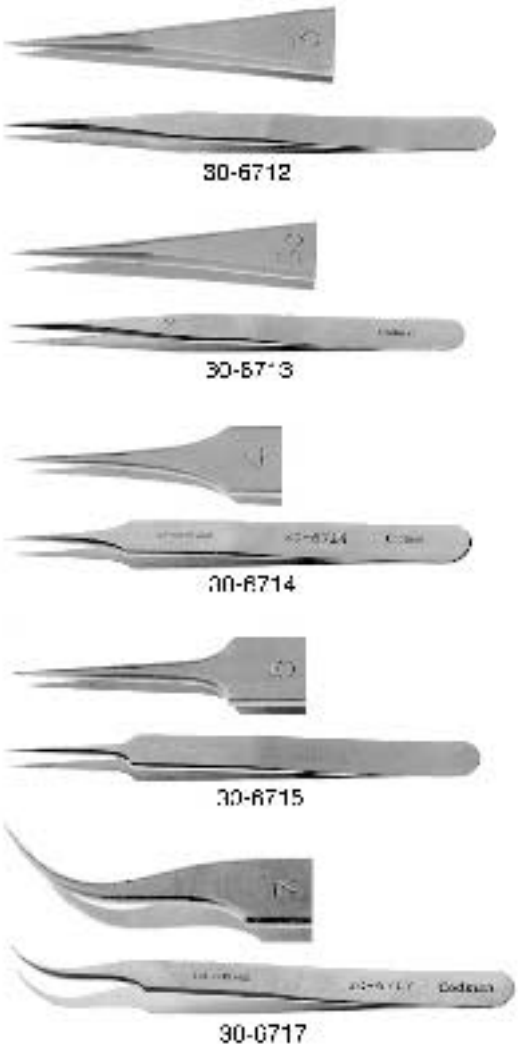
FORCEPS, INTESTINAL

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



FORCEPS, JEWELERS

	JEWELERS Forceps			
30-6712	#3	Length	4¾″	(121mm)
30-6713	#3C	Length	4 5/16″	(109mm)
30-6714	#4	Length	4¼″	(108mm)
30-6715	#5	Length	4 5/16″	(109mm)
30-6717	#7 Curved	Length	4⅝″	(117mm)



PEDIATRIC

FORCEPS, MICRO



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 Straight	Tip width	.7mm
80-6631	Extra Fine Utility Straight	Tip width	.3mm



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



80-1654 WILLIAMS Discectomy Forceps, single-toothed cup.

Bit size		2mm
Length	5½″	(140mm)

FORCEPS, RIGHT ANGLE

	CLASSIC® DELICATE Right Angle Clamps		
30-4493	Length	5½″	(140mm)

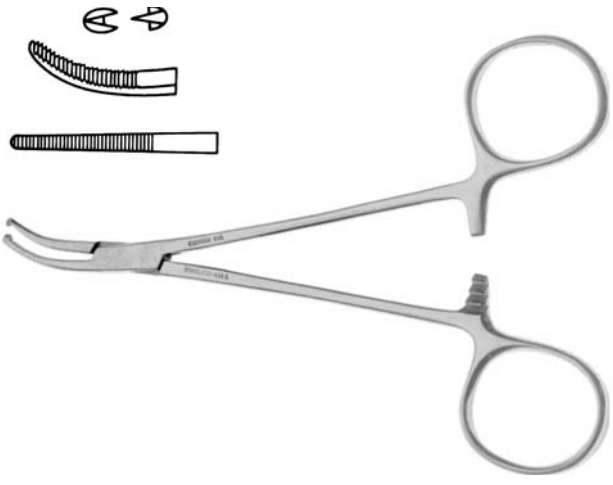


FORCEPS, SCALP

	DANDY™ Scalp Hemostatic Forceps, curved on side.		
	Length	5½″	(140mm)
	Bright Finish		
32-4160	Serrated		
32-4161	1 x 2 teeth		



30-1360	RAIMONDI Infant Scalp Hemostatic Forceps, 1x2 teeth, curved on side.		
	Length	5″	(127mm)



FORCEPS, SPLINTER



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



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



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

FORCEPS, 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 Straight Tip width .7mm
80-6631 Extra Fine Utility Straight Tip width .3mm

FORCEPS, 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



80-2000	MICRO Forceps, straight		
	Tip width		.3mm
	Length	5½″	(140mm)



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, smooth jaws		
19-8029	1⅝″ (40mm) gold band		



FORCEPS, THORACIC

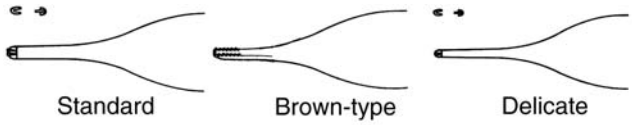


19-8150	CASTANEDA-MIXTER Thoracic Clamp Forceps, smooth jaws.		
	Length	5¼″	(133mm)

FORCEPS, TISSUE



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



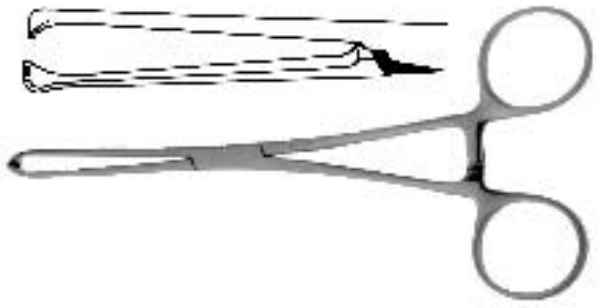


	ADSON Tissue Forceps		
30-4218	**Delicate pattern, 1x2 teeth**		
	Tip width		.7mm
	Length	5″	(127mm)
30-1186	**Standard pattern, 1x2 teeth**		
	Tip width		1.2mm
	Length	5″	(127mm)
30-1187	**Standard pattern, 2x3 teeth**		
	Tip width		1.8mm
	Length	5″	(127mm)
30-1189	**Brown-type teeth**		
	Tip width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

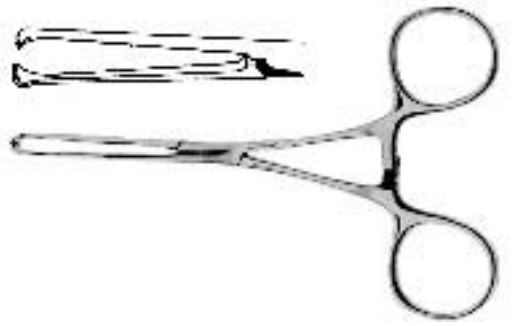
Tip width is measured 1mm from the instrument tip.

Codman

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



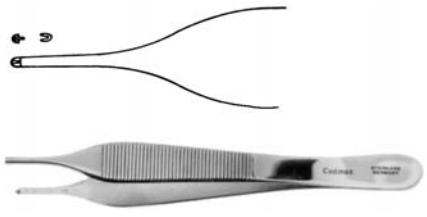
30-4466	ALLIS CLASSIC® DELICATE		
	Tissue Forceps, 5x6 teeth.		
	Length	5″	(127mm)



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

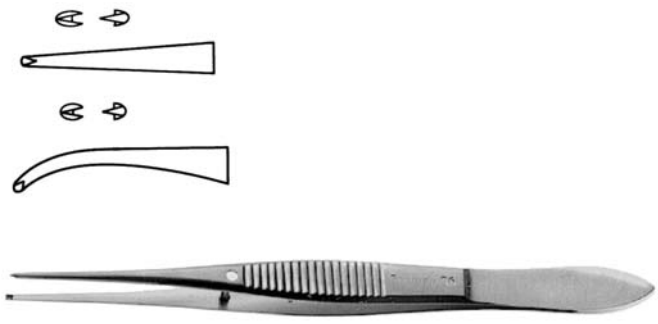


30-4216	EWALD-HUDSON Tissue Forceps, 1x2 teeth.		
	Tip width		1.6mm
	Length	5″	(127mm)



PEDIATRIC

FORCEPS, TISSUE



IRIS Tissue Forceps, 1x2 teeth.

	Tip width		.5mm
	Length	4″	(102mm)
30-6530	Straight		
30-6532	Curved		



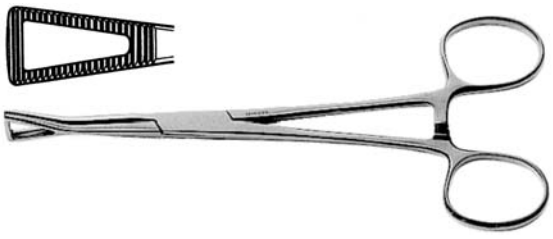
MAGNAFREE™ MRI Adson Tissue Forcep, Non-Magnetic (titanium) for intraoperative MRI. MRI safe up to 1.5 Tesla.

65-2413	MRI Adson Tissue Forcep, 1x2 teeth		
	Length 5″ (127mm)		



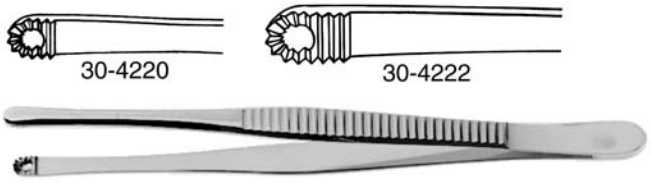
MAGNAFREE™ MRI Tissue Forcep, Non-Magnetic (titanium) for Intraoperative MRI, MRI safe up to 1.5 Tesla

65-2420	MRI Tissue Forcep, 2x3 teeth		
	Tip Width		3.9mm
	Length	5½″	(140mm)



PENNINGTON Tissue Grasping Forceps

19-4000	Triangular jaws		
	Tip width	7/16″	(11mm)
	Length	6″	(153mm)



RUSSIAN Tissue Forceps

30-4220	Tip width		6mm
	Length	6″	(152mm)

FORCEPS, TISSUE

	SEMKEN Tissue Forceps, 1x2 teeth.		
30-1170	Tip width		1.3mm
	Length	5″	(127mm)

Tip width is measured 1mm from the instrument tip.



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





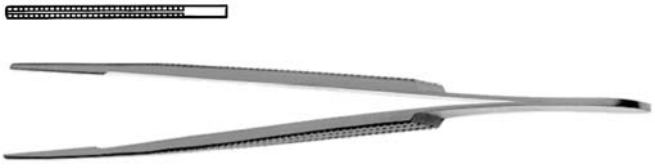
	TISSUE Forceps, 1x2 teeth.		
30-4151	Tip width		2.3mm
	Length	5″	(127mm)
30-4152	Tip width		2.3mm
	Length	5½″	(140mm)
30-4153	Tip width		2.3mm
	Length	6″	(152mm)

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



FORCEPS, VASCULAR

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



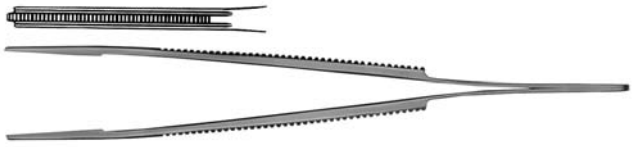
PEDIATRIC

FORCEPS, VASCULAR



	DeBAKEY-DIETHRICH Vascular Forceps		
30-8131	Length	6″	(152mm)

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)

GAGS



	JENNINGS Mouth Gags		
31-6501	Spread	4½″	(114mm)
31-6502	Spread	6″	(152mm)

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)

HOOKS, DURAL

38-1042 LAHEY CLINIC Dural Hook, sharp.
Length 5¼″ (133mm)
Depth (2.8mm)



HOOKS, EYE

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, SKIN

38-2515 CARROLL Skin Hook, sharp.
Length 6″ (152mm)
Hook size ⅛″ (3mm)



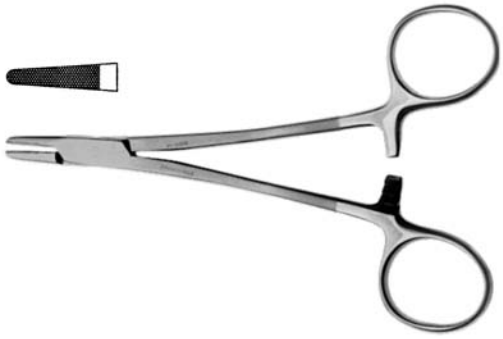
NEEDLE HOLDERS

64-6502 BARRAQUER Needle Holder, straight, with catch.
Tip width 1mm
Length 6″ (150mm)

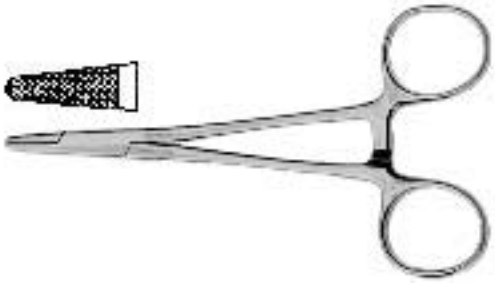


PEDIATRIC

NEEDLE HOLDERS



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



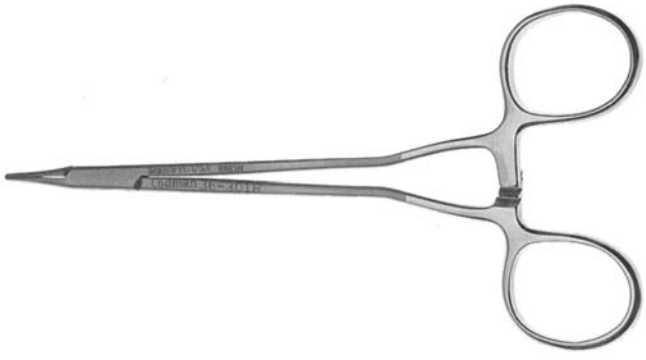
BAUMGARTNER Needle Holders
64-2510 Length 5″ (127mm)
64-2511 Length 5½″ (140mm)



CASTROVIEJO CLASSIC PLUS®
Needle Holders, with catch,
tungsten carbide jaw inserts.
36-1000 Length 5½″ (140mm)



CASTROVIEJO MICROSURGICAL CLASSIC PLUS® Needle Holders, smooth tungsten carbide jaw inserts.
36-1006 With catch Length 5½″ (140mm)



CLASSIC PLUS I.M.A. Needle Holder
36-3018 Straight Length 6″ (152mm)

37-4029 CODMAN Total Occlusion Needle Holder
WEBSTER Needle Holder, smooth jaw, tungsten carbide inserts.
Length 4¾″ (12.1cm)



30-8002 COMBINATION Needle Holder and Forceps
Length 5½″ (140mm)



CRILE-WOOD CLASSIC PLUS®
Needle Holders, tungsten carbide jaw inserts.
36-2000 Length 6″ (152mm)



64-2509 CRILE-WOOD Needle Holder
Length 6″ (152mm)



NEEDLE HOLDERS



36-1010	DERF CLASSIC PLUS® Needle Holder, tungsten carbide jaw inserts.		
	Length	5″	(127mm)



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



	E-SERIES* Needle Holders, curved, titanium.		
	Length	6″	(152mm)
80-6006	Fine tip	Tip width	.7mm
80-6007	Standard tip	Tip width	1mm

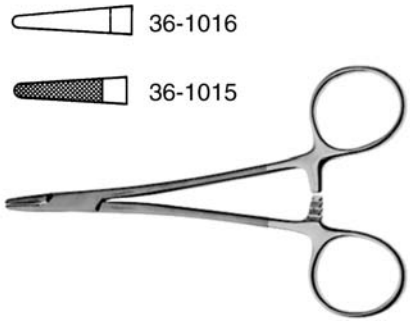


	E-SERIES* XF Needle Holders, titanium		
	Length	6″	(152mm)
80-6620	Extra Fine Tip Straight	Tip width	.5mm
80-6621	Extra Fine Tip Curved	Tip width	.5mm

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.

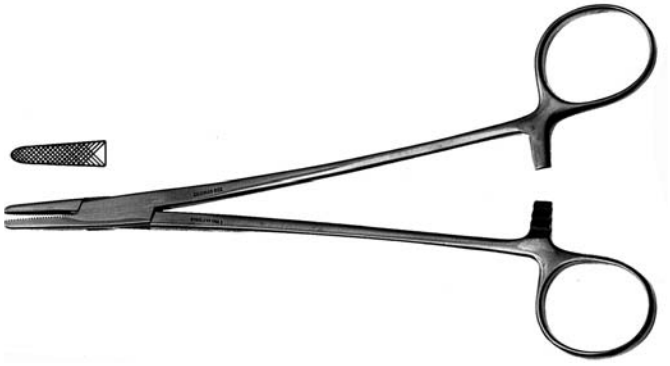


64-6558 HALSEY Needle Holder, smooth jaws.
Length 5″ (127mm)



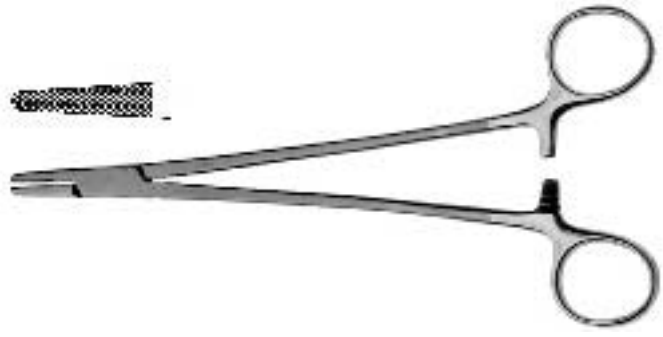
MAYO-HEGAR Needle Holders

64-2512	Length	6″	(152mm)



MAYO-HEGAR CLASSIC PLUS®
Needle Holders, tungsten carbide jaw inserts.

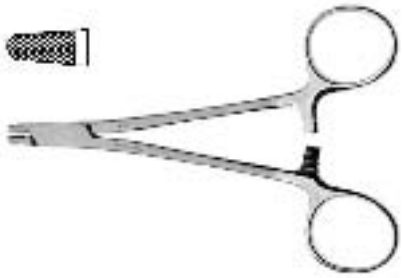
36-2015	Length	5″	(127mm)
36-2016	Length	6″	(152mm)



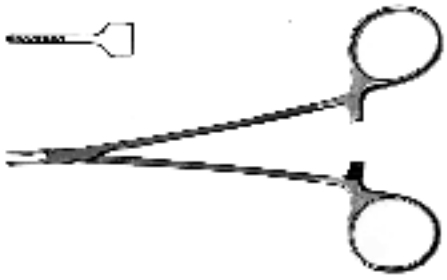
NEEDLE HOLDERS



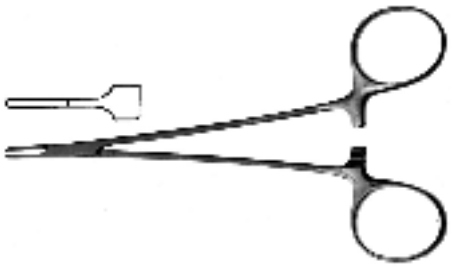
36-4000 OLSEN-HEGAR CLASSIC PLUS®
Needle Holder and scissors, tungsten carbide jaw inserts.
Length 5½″ (140mm)



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



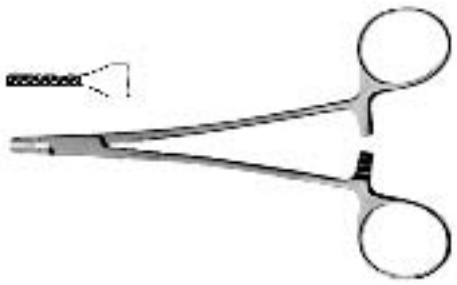
RYDER CLASSIC PLUS® Needle Holders
tungsten carbide jaw inserts.
Serrated Jaw
36-3023 Jaw width (1mm)
Total length 5″ (121mm)



RYDER CLASSIC PLUS® Needle Holders,
tungsten carbide jaw inserts.
Smooth Jaw
36-3022 Jaw width (1mm)
Total length 5″ (121mm)

NEEDLE HOLDERS

	RYDER CLASSIC PLUS® Needle Holders, tungsten carbide jaw inserts, serrated jaw. Tip size 1.5mm.		
36-3000	Jaw width		(2mm)
	Total length	5″	(127mm)



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 Straight	Tip width	.5mm
80-6621	Extra Fine Tip Curved	Tip width	.5mm



	MICRO Needle Holders		
	Tip width		.5mm
	Length	5½″	(140mm)
80-2002	Straight tip		
80-2003	Curved tip		





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		

RETRACTOR, BLADE



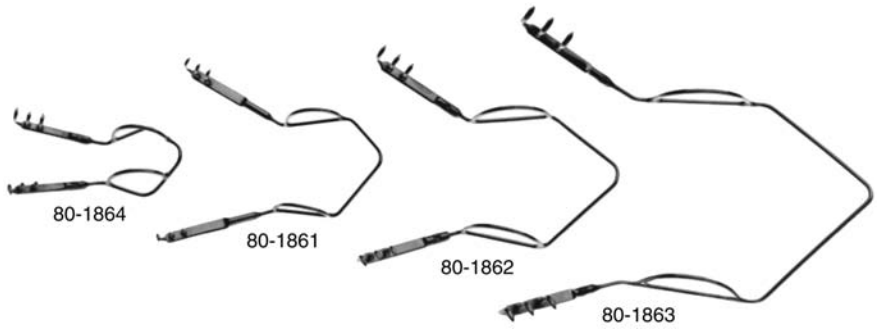
	CODMAN Blade Retractors		
	Blade length	3″	(76mm)
	Handle length	4½″	(114mm)
50-1050	Blade width		18mm
50-1052	Blade width		20mm
50-1053	Blade width		23mm

RETRACTOR, CERVICAL



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		

RETRACTOR, EPICARDIAL



	I.M.A. Epicardial Retractors Gold Coated		
	Size	Length	
80-1864	Mini	1″	(25mm)
80-1861	Small	1⅛″	(28mm)
80-1862	Medium	1½″	(38mm)
80-1863	Large	2⅛″	(54mm)

37-4035 PARSONNET Epicardial Retractor, self retaining, light spring steel retractor with 3x3 sharp prongs.
Length 1⅞″ (4.7cm)



RETRACTOR, GENERAL PURPOSE

50-4265 ALM Retractor, self retaining with semi-sharp prongs.

Prong depth	⅛″	(3mm)
Length	3″	(76mm)
Total opening	2″	(51mm)



50-4100 CHILDREN'S HOSPITAL Retractor, double-ended.

Blade width	7/16″	(11mm)
Blade depth	⅞″	(22mm)
Blade width	9/16″	(14mm)
Blade depth	1⅜″	(35mm)
Length	5½″	(140mm)



PEDIATRIC

RETRACTOR, GENERAL PURPOSE



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)



WEITLANER Retractors, self-retaining, 3x4 prongs.

Total opening	2 1/4″	(57mm)
Length	5 1/2″	(140mm)

50-1194 Sharp
50-1195 Blunt



WEITLANER Retractors, self-retaining, 2x3 prongs.

Total opening	2 1/4″	(57mm)
Length	4 1/2″	(114mm)

50-5646 Sharp
50-5647 Blunt

RETRACTORS, LAMINECTOMY

50-1212 POPPEN-GELPI Laminectomy Retractor, self-retaining

Total opening	2½″	(64mm)
Length	5½″	(140mm)



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	4¾″	(120mm)
Handle length	4⅝″	(117mm)
Tip width	9/32″	(8mm)
Tip depth	¼″	(6mm)



RETRACTORS, 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)



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)



50-1310 WEARY Nerve Root Retractor, black finish.

Blade width	7⁄16″	(11mm)
Shaft length	5¾″	(146mm)
Handle length	5¾″	(146mm)

RETRACTORS, PERINEAL

GELPI Retractor, Pediatric

	Blade Width	Blade Opening	Total Length
32-3602	.2cm	3.6cm	3″ (9.3cm)
32-3603	.2cm	3.4cm	4¼″ (11.2cm)
32-3604	.3cm	6.0cm	5½″ (14.0cm)



RETRACTORS, RIB

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	1⅝″	(41mm)
Large blade width	1⅞″	(48mm)
Small blade width	1⅝″	(41mm)
Small blade depth	1⅜″	(35mm)
Total opening	6″	(152mm)



RETRACTORS, RIB



	FINOCHIETTO Rib Retractors, self-retaining with rack and pinion action.		
	Arm length	5¾″	(146mm)
50-8022	Blade width	1¾″	(44mm)
	Blade depth	1¼″	(32mm)
	Total opening	6″	(152mm)



50-5625	FINOCHIETTO Infant Rib Retractor, self-retaining with rack and pinion action.		
	Arm length	3″	(76mm)
	Blade length	¾″	(19mm)
	Blade depth	1 3/16″	(21mm)
	Total opening	2½″	(64mm)

RETRACTORS, RIB

50-8057 FINOCHIETTO Infant Rib Retractor-Contractor, self-retaining with rack and pinion action.

Arm length	3¼″	(83mm)
Blade width	⅞″	(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	1 3⁄16″	(30mm)
Total opening	4″	(102mm)



RETRACTORS, SCALP

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)



RETRACTORS, SCALP



50-1227 JANSEN Mastoid Retractor, self-retaining, 3x3 blunt prongs.

Prong width	1 1/16″	(17mm)
Prong depth	3/8″	(10mm)
Total opening	1 3/4″	(44mm)
Length	4″	(102mm)



50-1226 JANSEN Scalp Retractor, self-retaining, 4x4 blunt prongs.

Blade width	3/4″	(19mm)
Blade depth	3/4″	(19mm)
Total opening	3″	(76mm)
Length	4 5/8″	(117mm)



50-1236 SNITMAN Endaural Retractor, self-retaining, 3x3 sharp prongs on solid blade.

Prong width	9/16″	(14mm)
Prong depth	3/8″	(10mm)
Total opening	2″	(51mm)
Length	4 3/16″	(106mm)

RETRACTORS, SCAPULAR

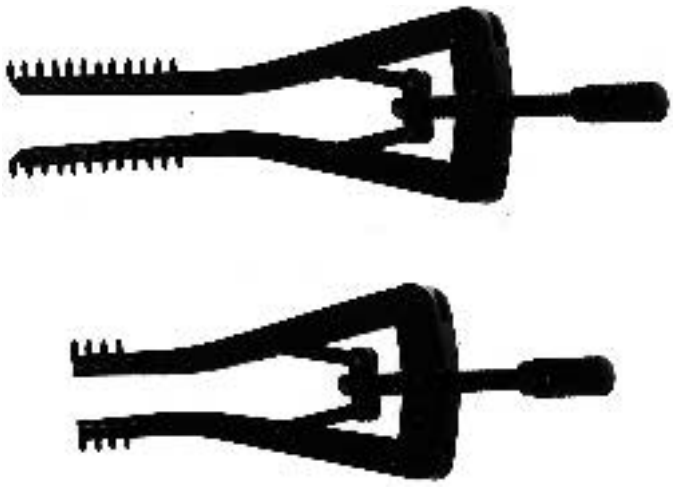


DAVIDSON Scapular Retractors

50-8095	Blade width	2″	(51mm)
	Blade depth	3″	(76mm)
	Handle length	6″	(152mm)
50-8096	Blade width	3 1/2″	(89mm)
	Blade depth	3″	(76mm)
	Handle length	6″	(152mm)

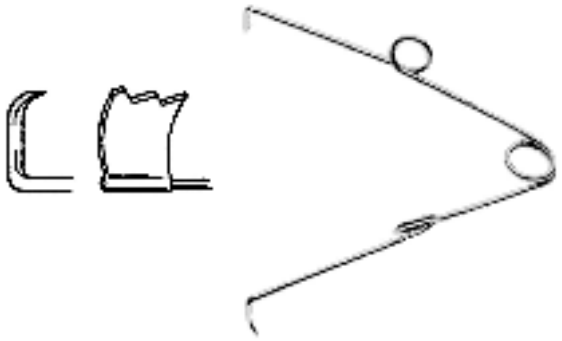
RETRACTORS, SKIN

	MICROVASC™ Modified Alm Retractors, black anodized.			
80-1812	4x4 prongs	Length	3″	(76mm)
80-1813	12x12 prongs	Length	3¾″	(95mm)



RETRACTORS, SPRING

	SPRING Retractors, self-retaining.		
50-4350	One prong, sharp		
	Prong length	⅜″	(10mm)
	Length	3⅛″	(79mm)
50-4351	Three prong, semi-sharp blade		
	Blade width	7⁄16″	(11mm)
	Blade depth	9⁄16″	(14mm)
	Length	3¼″	(83mm)



RETRACTORS, STERNAL

	ANKENEY Sternal Retractor, aluminum, with stainless steel rack. Self-retaining with rack and pinion action. Complete with four fixed swivel blades.		
50-8068	Child size		
	Arm length	4½″	(114mm)
	Total opening	5″	(127mm)
	Blade width	¾″	(19mm)
	Blade depth	1″	(25mm)



RETRACTORS, STERNAL



CASTANEDA Infant Sternal Retractor, with aluminum arms.

50-8060	Small		
	Arm length	2 5/8″	(67mm)
	Blade width	1 7/16″	(36mm)
	Blade depth	3/8″	(10mm)
	Total opening	3″	(76mm)
50-8061	Large		
	Arm length	3″	(76mm)
	Blade width	2 1/2″	(64mm)
	Blade depth	7/16″	(11mm)
	Total opening	3 1/2″	(89mm)



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)

RETRACTOR, TISSUE

	CODMAN Tissue Retractors		
	Length	5¼″	(133mm)
	Total opening	2½″	(64mm)
50-1223CO	3x3 blunt prongs		
	Prong width	½″	(13mm)
	Prong depth	⅝″	(16mm)
50-1224CO	1x1 blunt prongs		
	Prong depth	½″	(13mm)



50-1223



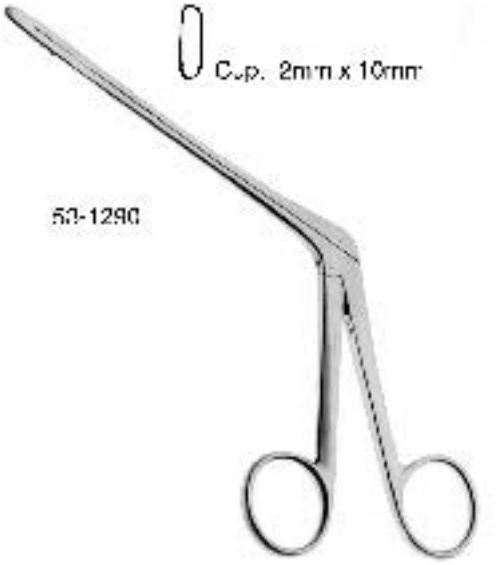
50-1224

RONGEURS, BONE, SINGLE ACTION

30-1310	LISTON Bone Cutting Forceps		
	Length	5½″	(140mm)



RONGEURS, IVD



	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)



53-1224	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
	Shaft length	5″	(127mm)
53-1295	Straight		
53-1296	Curved up		



53-1255 PEAPOD Intervertebral Disc Rongeur, curved up.

Cup		2x6mm
Shaft length	5½″	(140mm)



RONGEURS, IVD



	SCHLESINGER Intervetebral 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



	SELVERSTONE Intervertebral Disc Rongeurs, straight.		
	Shaft length	6″	(152mm)
53-1325	Cup		2 x 3mm
53-1326	Cup		2 x 5mm

	SPURLING Intervertebral Disc Rongeurs		
	Cup		4 x 10mm
	Shaft length	5″	(127mm)
53-1300	Straight		
	Shaft length	6″	(152mm)



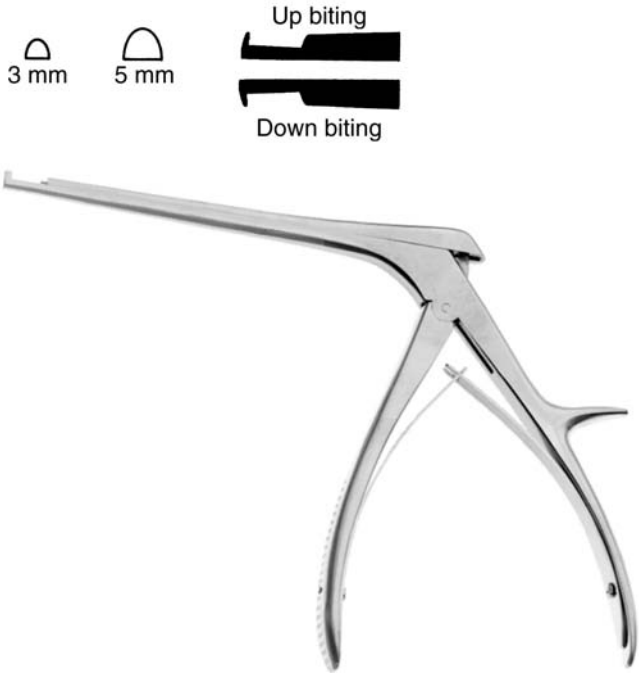
	WILDE Intervertebral Disc Rongeurs, straight shaft.		
	Shaft length	5½″	(140mm)
53-1280	No. 1		(5.0mm x 15mm)
53-1281	No. 2		(5.2mm x 15mm)
53-1282	No. 3		(6.0mm x 15mm)



RONGEURS, LAMINECTOMY, KERRISON



	CODMAN KERRISON Laminectomy Rongeurs		
	Up biting		
	Shaft length	6″	(152mm)
53-1370	Bite		3mm
53-1371	Bite		5mm
	Down biting		
	Shaft length	6″	(152mm)
53-1374	Bite		3mm
53-1375	Bite		5mm



	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

Codman

RONGEURS, LAMINECTOMY, KERRISON



	RANEY Laminectomy Rongeurs		
	Bite		7mm
51-1065	Shaft length	6″	(152mm)

SCISSORS, ALLIGATOR

	DECKER Microsurgical Scissors, alligator action.		
	Blade length		5mm
	Length	5½″	(140mm)
54-5604	Straight		
54-5605	Curved left		
54-5606	Curved right		



SCISSORS, ALLIGATOR



54-1091	SWEET Scissors, straight, alligator blades.		
	Blade length	3/8″	(10mm)
	Shaft length	5 1/2″	(140mm)

SCISSORS, CORNEAL



	CASTROVIEJO Corneal Scissors		
54-6571	Curved tip		
	Length	4 1/4″	(108mm)
54-6572	Angular jaw		
	Length	3 3/4″	(95mm)

SCISSORS, DELICATE



34-1076	CLASSIC FINE SCISSORS, CURVED.		
	Length	4 1/2″	(114mm)



54-5571	DELICATE LAHEY Scissors, curved.		
	Length	5 3/4″	(146mm)

SCISSORS, DELICATE

DELICATE Scissors, blunt/blunt.
Length 4½″ (114mm)

54-2515 Straight
54-2520 Curved



54-5567 DELICATE Scissors, curved with dissecting end.
Length 4⅞″ (124mm)



FINE Scissors, sharp/sharp.
Length 4½″ (114mm)

54-1075 Straight
54-1076 Curved



SCISSORS, DISSECTING

CLASSIC MAYO Scissors
Length 5½″ (139mm)

34-4088 Straight, Round blades
34-4098 Straight, Beveled blades



CLASSIC METZENBAUM Scissors
Blunt/Blunt
Length 5¾″ (146mm)

34-1020 Straight
34-1021 Curved



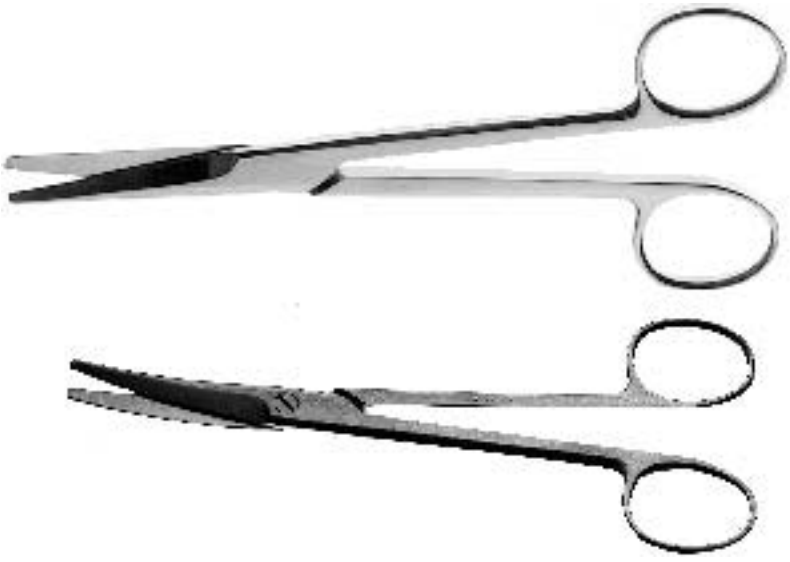
SCISSORS, DISSECTING



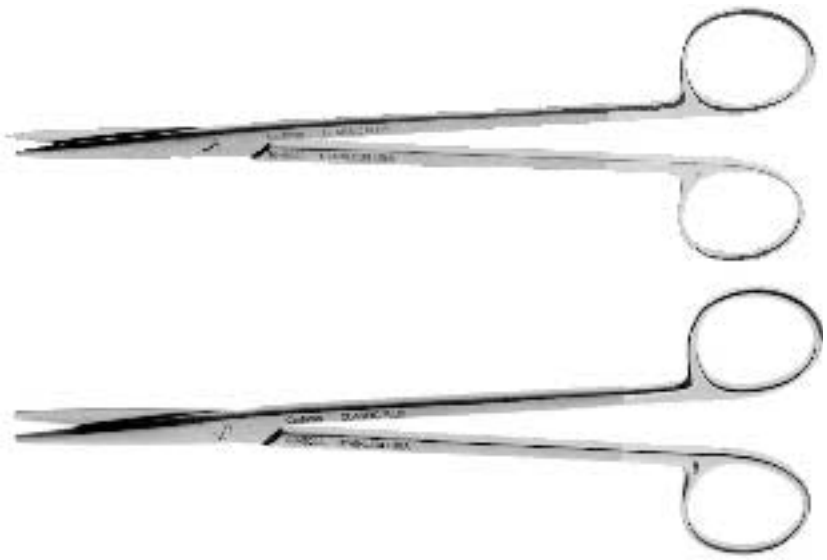
	DELICATE Dissecting Scissors		
	Length	5″	(127mm)
54-5566	Curved		



	MAYO CLASSIC PLUS® Dissecting Scissors, STELLITE™ edge inserts.		
	Straight		
36-5050	Length	5½″	(140mm)
	Curved		
36-5060	Length	5½″	(140mm)



	MAYO Dissecting Scissors, beveled blades.		
	Straight		
54-4098	Length	5½″	(140mm)
	Curved		
54-4099	Length	5½″	(140mm)



	METZENBAUM CLASSIC PLUS® Dissecting Scissors, delicate, STELLITE™ edge inserts.			
	Straight			
36-5020	Sharp/sharp	Length	5¾″	(146mm)
36-5021	Blunt/blunt	Length	5¾″	(146mm)
	Curved			
36-5030	Sharp/sharp	Length	5¾″	(146mm)
36-5031	Blunt/blunt	Length	5¾″	(146mm)

	METZENBAUM Dissecting Scissors		
	Curved		
54-1023	Length	5″	(127mm)



SCISSORS, IRIS



CLASSIC IRIS Scissors, sharp/sharp

	Length	4½″	(114mm)
34-6500	Straight		
34-6503	Curved		



IRIS CLASSIC PLUS® Scissors, sharp/sharp, STELLITE™ edge inserts.

	Length	4½″	(114mm)
36-5000	Straight		
36-5001	Curved		



IRIS Scissors, sharp/sharp.

	Length	4⅜″	(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, MICROSURGICAL



E-SERIES* Scissors, straight, titanium, serrated jaws.

	Length	6″	(152mm)
80-6008	Fine tip		
80-6009	Regular tip		

SCISSORS, MICROSURGICAL

	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		







SCISSORS, MICRO, STRAIGHT

	MICRO Scissors		
	Length	5½″	(140mm)
80-2005	Straight tip		
80-2006	Curved tip		



SCISSORS, NEUROLOGICAL

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



SCISSORS, NEUROLOGICAL



54-1050 TAYLOR Dural Scissors
Length 5¾″ (146mm)

SCISSORS, OPERATING



54-4066 DEAVER Operating Scissors, straight, sharp/blunt.
Length 5½″ (140mm)



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



DELICATE Operating Scissors
Length 5½″ (140mm)
Straight
54-4306 Sharp/blunt



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

SCISSORS, OPERATING

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



	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)



	OPERATING CLASSIC PLUS® Scissors, STELLITE™ edge inserts.		
	Length	5½″	(140mm)
	Straight		
36-5040	Sharp/blunt		
36-5041	Sharp/sharp		



SCISSORS, STRABISMUS

	CLASSIC STRABISMUS Scissors, blunt/blunt		
	Length	4½″	(114mm)
34-6517	Curved		



PEDIATRIC

SCISSORS, STRABISMUS



STRABISMUS CLASSIC PLUS™ scissors, STELLITE™ edge inserts, blunt/blunt.
Length 4½″

36-5005 Straight
36-5006 Curved



STRABISMUS Scissors, blunt/blunt.
Length 4½″ (114mm)

54-6515 Straight
54-6517 Curved

SCISSORS, SUTURE



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



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



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

SPENCER Stitch Scissors

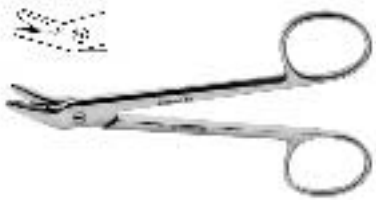
54-6624	Length	3½″	(89mm)
54-4205	Length	4¼″	(108mm)



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



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



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



54-6630	WESCOTT Stitch Scissors, sharp/sharp.		
	Length	4¼″	(108mm)



SCISSORS, TENOTOMY



	JAMISON Metzenbaum Tenotomy Scissors, curved blades.			
37-4033	Length	6″		(15.2cm)



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



	STEVENS Tenotomy Scissors			
54-6520	Straight	Length	4 1/8″	(105mm)
54-6521	Curved	Length	4 1/8″	(105mm)
54-6522	Straight	Length	4 5/8″	(118mm)
54-6523	Curved	Length	4 5/8″	(118mm)

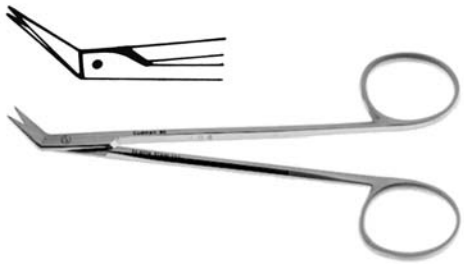


54-6513	WESCOTT Tenotomy Scissors, blunt/blunt.			
	Length	4 1/4″		(108mm)

SCISSORS, VASCULAR

54-8008 FINE Vascular Scissors, 45° angle.

Blade width	3/16″	(5mm)
Blade length	1/2″	(13mm)
Length	5 1/4″	(133mm)



54-8004 MATTOX-POTTS Scissors, 45° angle.

Blade width	1/4″	(6mm)
Blade length	1 3/16″	(21mm)
Length	5 1/2″	(140mm)



SPECULA, NASAL

79-6669 HALLE Nasal Speculum, adult.

Blade length	1 1/4″	(32mm)
Length	6″	(152mm)



KILLIAN Septum Specula

	Total length	5 1/4″	(133mm)
79-7011	Blade length	2″	(51mm)
79-7012	Blade length	2 1/2″	(63mm)
79-7013	Blade length	3″	(76mm)



SPECULA, NASAL



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)

SPECULA, RECTAL



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)

SUCTION, TUBES



	ADSON Suction Tubes, curved tip, with thumb piece to control suction.		
70-1146	Diameter	12 Fr.	
	Length	5 1/2″	(140mm)

Tube length is measured from top of socket to tip.

FRAZIER Suction Tubes, straight, with thumb piece to control suction.

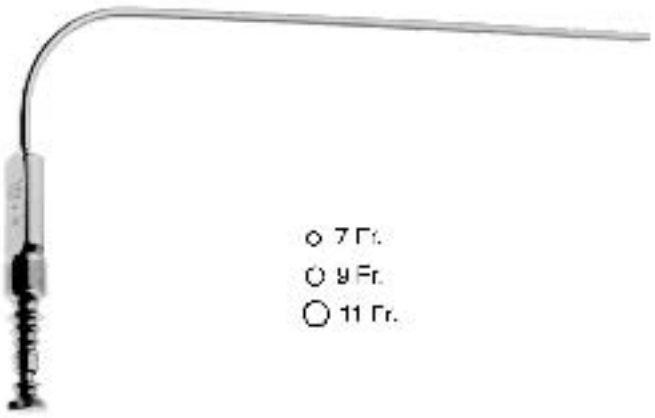
	Tubing length	5¼″	(133mm)
70-1100	Diameter	7 Fr.	
70-1101	Diameter	9 Fr.	
70-1102	Diameter	11 Fr.	



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.	

Use 29-1003 FRAZIER cord with cautery attachment.



MALIS-FRAZIER Suction Tubes, black anodized.

	Diameter	7 Fr.	
70-1103	Length	4¼″	(108mm)



PACIFICO Suction Tubes

	Diameter tapers		11-8 Fr.	
70-8047	Short	Length	5½″	(140mm)



PRIBRAM Suction Tubes, with thumb piece to control suction.

	Tubing length	5½″	(140mm)
70-1128	Diameter	16 G.	
70-1130	Diameter	18 G.	





OBSTETRICS/GYNECOLOGICAL

METRIC
INCHES
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

BOOKWALTER RINGS

	BOOKWALTER Pelvic Ring		
50-4689	Segmented, with Slots		
	Length	10½″	(266mm)
	Width	8″	(203mm)
50-4690	With Slots (Not Shown)		
	Length	10½″	(266mm)
	Width	8″	(203mm)



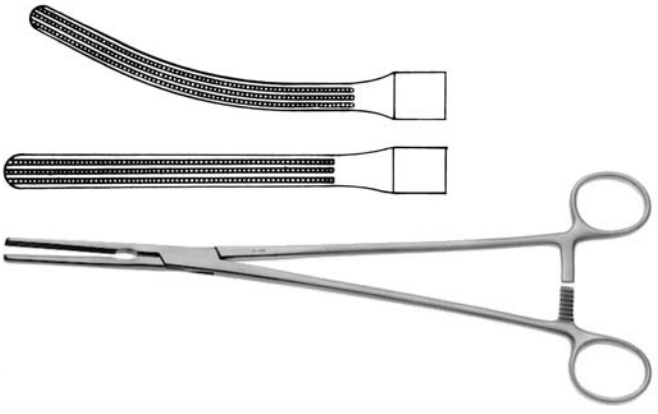
CLAMPS, BREAST

19-4004	ADAIR Breast Clamp		
	Length	7¾″	(197mm)



CLAMPS, PELVIC

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



CURETTES, UTERINE



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



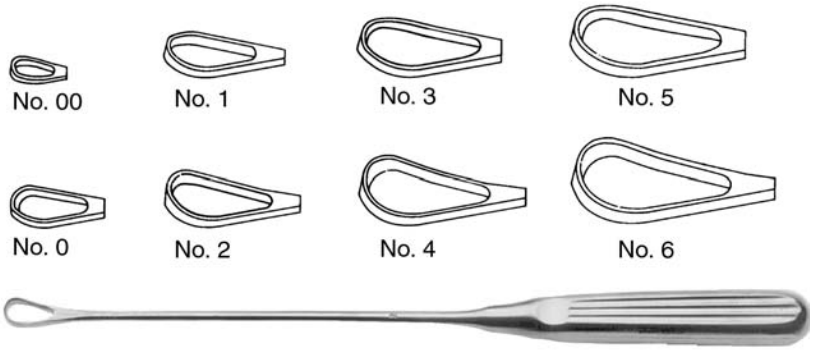
23-5670 HEANEY Endometrial Biopsy Curette, malleable shaft, serrated cup.
Cup size 5x8mm
Length 9¾″ (248mm)



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



23-5574 MODIFIED YOUNGE Endometrial Biopsy Curette, square end.
Cup size 11¾″ 3x12mm



SIMS Uterine Curettes, sharp, malleable shaft.
Length 11″ (279mm)

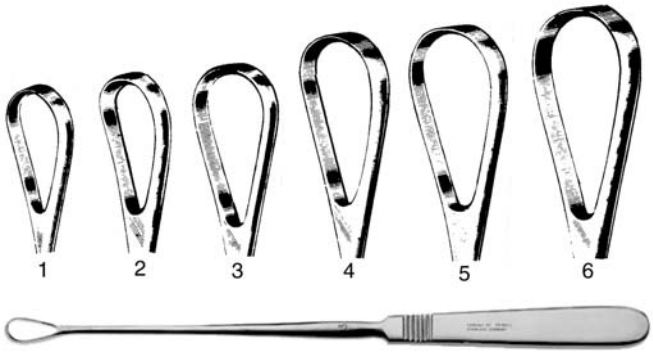
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23-5537 No. 4
23-5538 No. 5
23-5539 No. 6 Length 11¾″ (298mm)

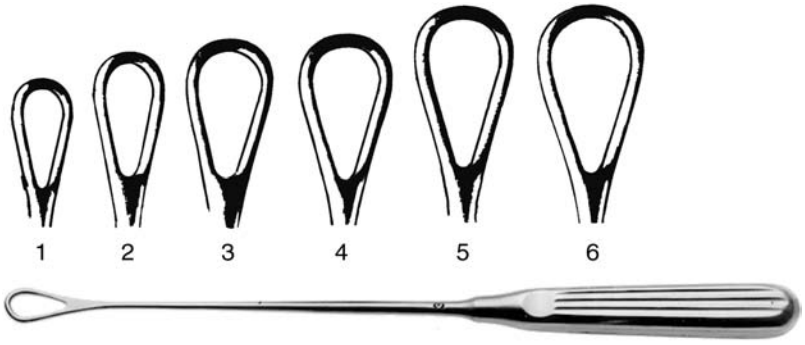
Codman

CURETTES, UTERINE

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)





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		

DILATORS, UTERINE

25-5549 HANKS Uterine Dilators, double-ended, solid. Complete set of six in canvas roll.
9/10 to 19/20 Length 10½″ (267mm)

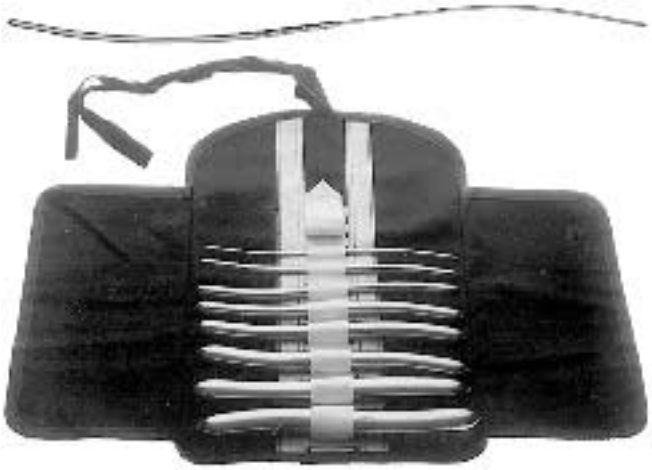
HANKS Uterine Dilators, single sizes

	Length	10½″	(267mm)
25-5540	9/10		
25-5541	11/12		
25-5542	13/14		
25-5543	15/16		
25-5544	17/18		
25-5545	19/20		

Dilator sizes are given in millimeters.



DILATORS, UTERINE



25-5536 HEGAR Uterine Dilators double-ended, hollow, stainless steel. Complete set of eight in canvas roll.
3/4 to 17/18 Length 8″ (203mm)
HEGAR Uterine Dilators, single sizes.
Length 8″ (203mm)

25-5525	1/2
25-5526	3/4
25-5527	5/6
25-5528	7/8
25-5529	9/10
25-5530	11/12
25-5531	13/14
25-5533	17/18
25-5532	15/16

Dilator sizes are given in millimeters.



25-5550 PRATT Uterine Dilators, double-ended, stainless steel. Similar to HEGAR Dilators but longer. Sizes etched on instruments. Complete set of eight in kakhi roll.
Length 11 7/8″ (300mm)

25-5551	13/16
25-5552	17/19
25-5553	21/23
25-5554	25/27
25-5555	29/31
25-5556	33/35
25-5557	37/39
25-5558	41/43

Dilator sizes are given in French gauge.

E-SERIES INSTRUMENTS

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, 5⅝″.
80-2963 Non-Stick Mirror Finish Bipolar Forceps, 1mm tip, 6″.



Note: 80-6001 not shown

EXTRACTOR

80-5550 MURLESS Fetal Head Extractor

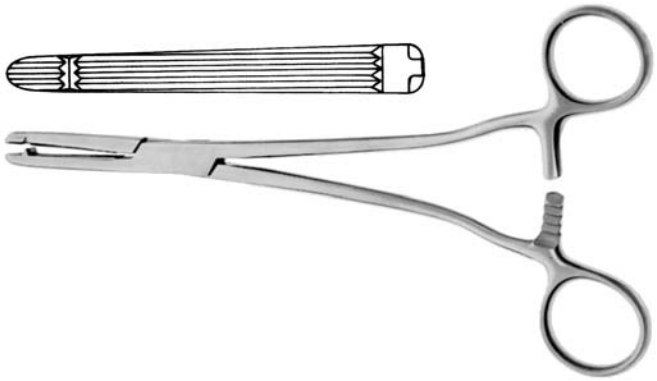


FORCEPS, CERVICAL

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



FORCEPS, HYSTERECTOMY



30-5801 BALLANTINE Hysterectomy Forceps, straight, single tooth.

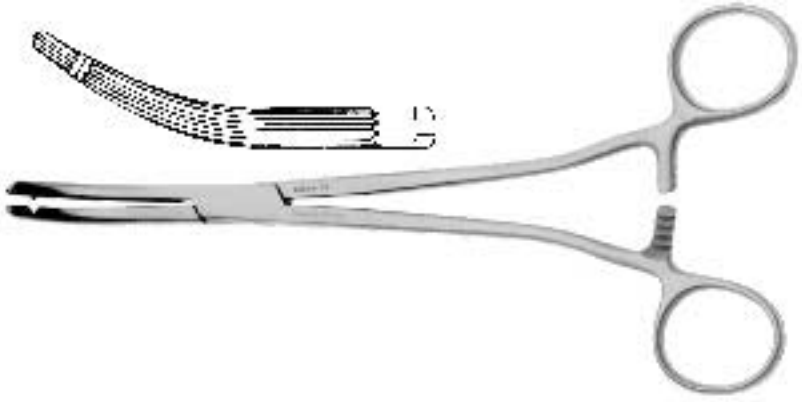
Jaw length	1¾″	(44mm)
Length	8½″	(216mm)



GLENNER Hysterectomy Forceps

Length	8¼″	(21cm)

32-3528 Curved Right
32-3529 Curved Left



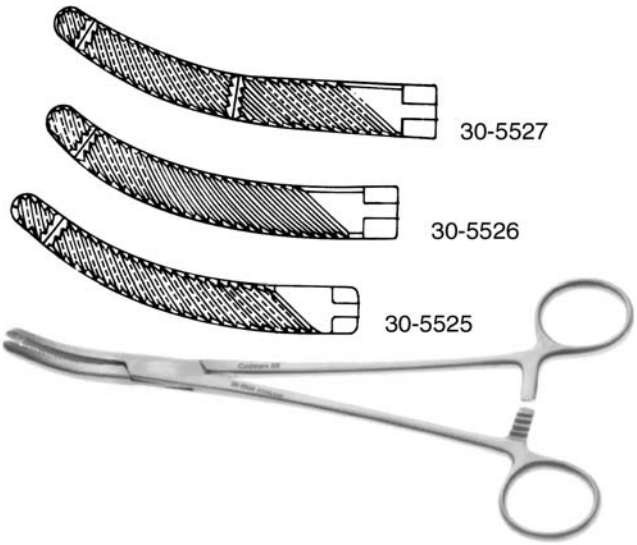
19-5505 HEANEY-BALLANTINE Hysterectomy Forceps, curved, single tooth.

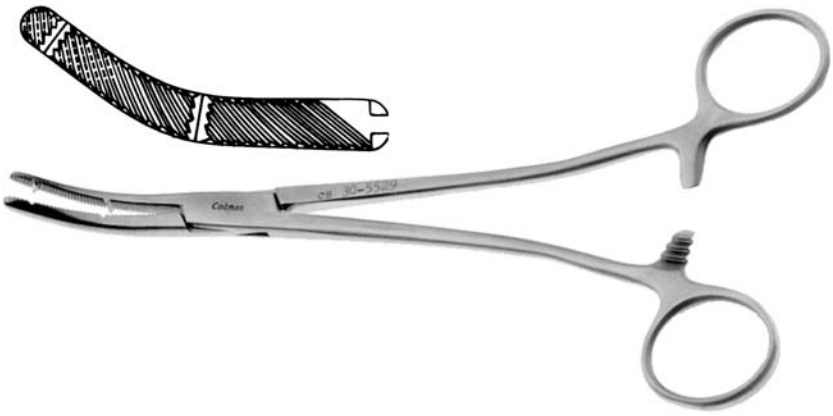
Jaw length	1½″	(38mm)
Length	8⅜″	(213mm)

Codman

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

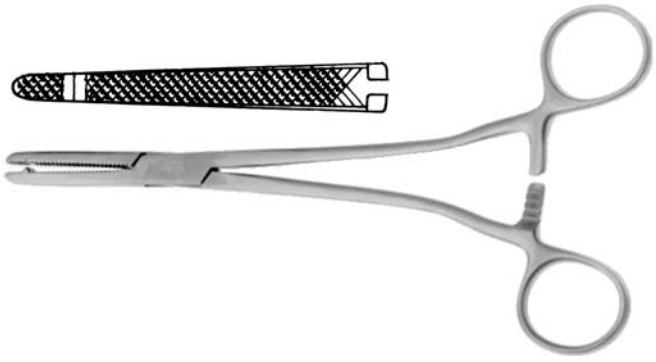
30-5525 Light Jaws, single tooth
30-5526 Heavy Jaws, single tooth
30-5527 Heavy Jaws, double tooth



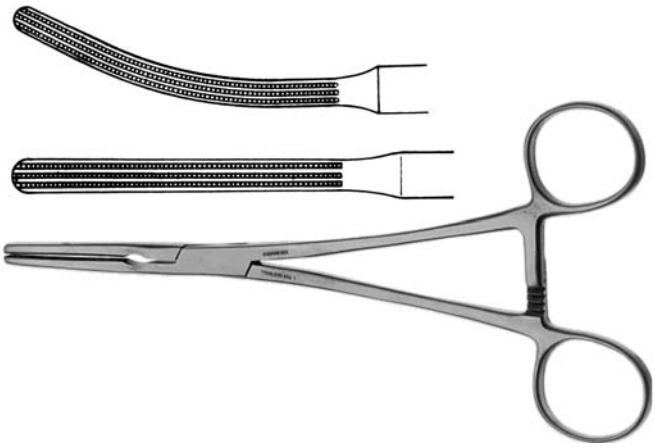


30-5529 HEANEY-KANTER Hysterectomy Forceps, curved, double tooth.
Jaw length 1¾″ (44mm)
Length 8½″ (216mm)

30-5800 HEANEY-REZAK Hysterectomy Forceps, straight, single tooth.
Jaw length 1⅞″ (48mm)
Length 8½″ (216mm)

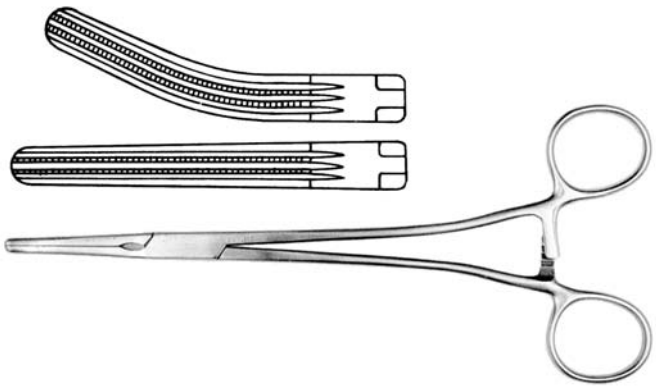


FORCEPS, HYSTERECTOMY



MASTERSON® Hysterectomy Forceps,
2x3 vascular teeth.

	Jaw length	1⅝″	(41mm)
	Total length	8½″	(216mm)
37-1520	Straight		
37-1521	Curved		



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



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		



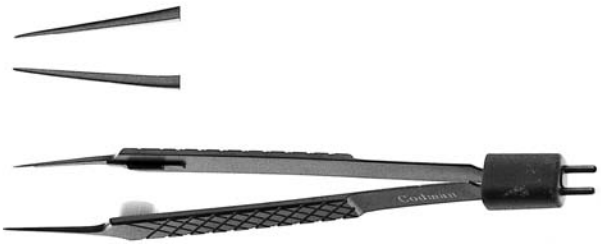
E-SERIES* XF Forceps, titanium

	Length 6″		(152mm)
80-6630	Extra Fine Tying Tip Straight	Tip width	.7mm
80-6631	Extra Fine Utility Straight	Tip width	.3mm

FORCEPS, MICRO

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, OBSTETRICAL



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



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

FORCEPS, OBSTETRICAL



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



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)

FORCEPS, PILE

19-5515	BUIE Pile Clamps		
	Jaw length	2″	(51mm)
	Total length	8½″	(216mm)



FORCEPS, PLACENTA



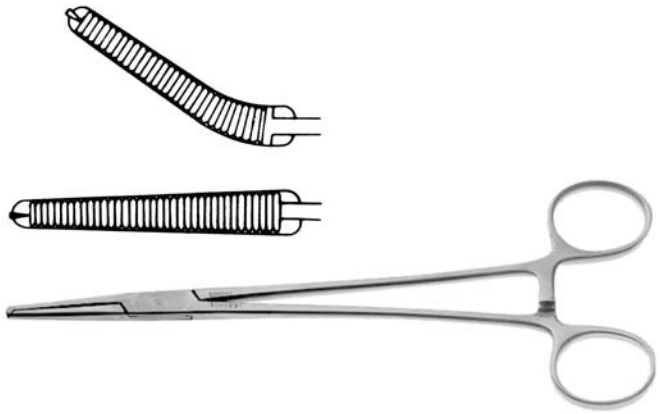
30-5695	KELLY Placenta Forceps, serrated jaw.		
	Length	12″	(305mm)

FORCEPS, SPONGE HOLDING, UTERINE

32-3527	FLETCHER-VAN DOREN Uterine Sponge Holding Forcep		
	Length	9½″	(24.1cm)



FORCEPS, UTERINE ARTERY



PHANEUF Uterine Artery Forceps, 1x2 teeth.
Length 8¼″ (210mm)

30-5535	Straight
30-5536	Angled

FORCEPS, UTERINE BIOPSY



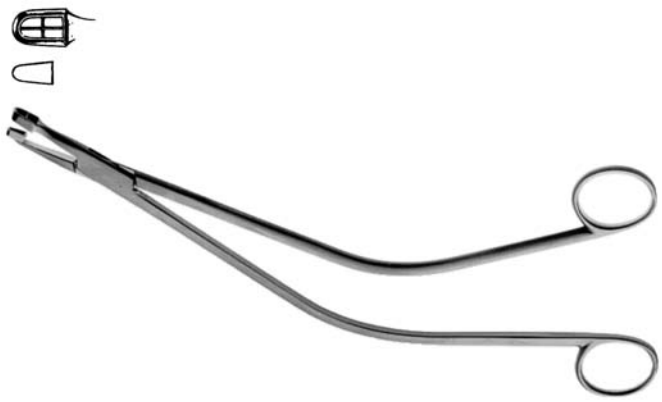
30-5545 GAYLER Uterine Biopsy Forceps, round jaws.
Jaw I.D. 3⁄16″ (5mm)
Length 8½″ (216mm)



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

FORCEPS, UTERINE BIOPSY

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



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

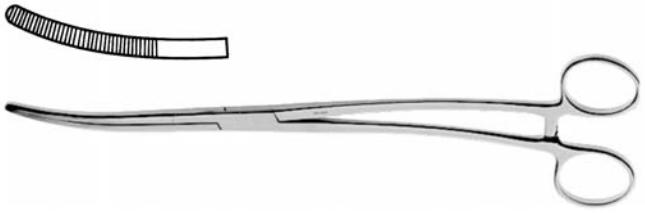


	WITTNER Uterine Biopsy Forceps, oblong basket jaws with teeth.		
51-5510	Straight		
	Jaw size		5x8mm
	Shaft length	8″	(203mm)

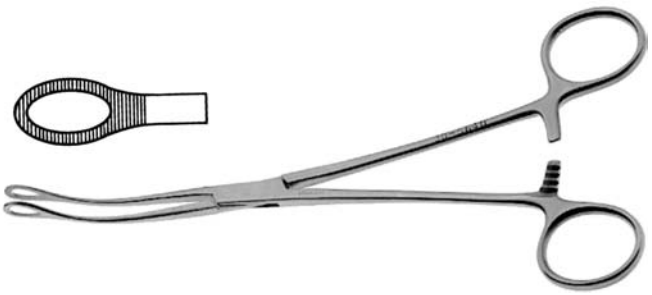


FORCEPS, UTERINE DRESSING

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



FORCEPS, UTERINE DRESSING



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)

Codman

FORCEPS, UTERINE VULSELLUM

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	10⅛″	(257mm)

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 Straight	Tip width	.5mm
80-6621	Extra Fine Tip Curved	Tip width	.5mm



RETRACTORS, MAGRINA-BOOKWALTER, 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)

See the Bookwalter Section of this catalog for a complete listing of our Bookwalter Products

RETRACTORS, OBSTETRIC



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

RETRACTORS, PERINEAL

GELPI Retractor, Pediatric

	Blade Width	Blade Opening	Total Length
32-3602	.2cm	3.6cm	3″ (9.3cm)
32-3603	.2cm	3.4cm	4½″ (11.2cm)
32-3604	.3cm	6.0cm	5½″ (14.0cm)





50-1210	GELPI Perineal Retractor, self-retaining, one by one prong.		
	Total opening	3¾″	(95mm)
	Length	7¼″	(184mm)

RETRACTORS, VAGINAL

KELLY SIMS Retractor, Vaginal

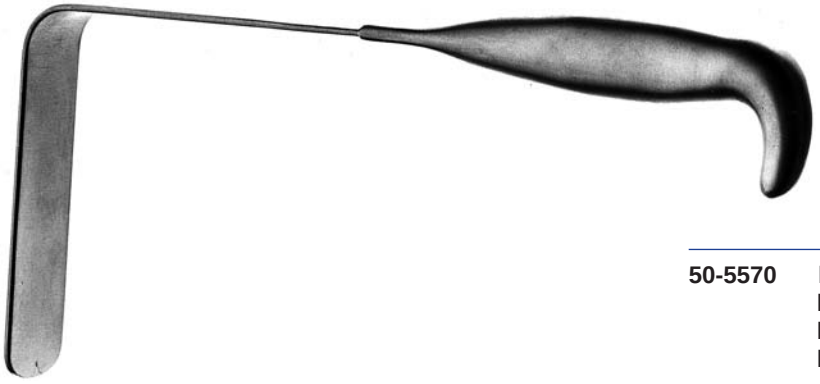
	Blade Length	Blade Width	Blade Depth	Handle Length
32-3606	9.8cm	2.5cm	5.7cm	23.8cm
32-3607	10cm	3.0cm	7.2cm	24.3cm
32-3608	10cm	3.6cm	7.6cm	24.5cm
32-3609	9.5cm	2.5cm	6.8cm	23.5cm
32-3610	10cm	3.1cm	7.5cm	24.0cm
32-3611	10.5cm	3.8cm	7.6cm	24.8cm



RETRACTORS, VAGINAL (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	3¼″	(83mm)
	Length	6½″	(165mm)



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



	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)

SCISSORS, EPISIOTOMY



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

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		



SCISSORS, MICROSURGICAL

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



SCISSORS, MICROSURGICAL







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

SCISSORS, UMBILICAL



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



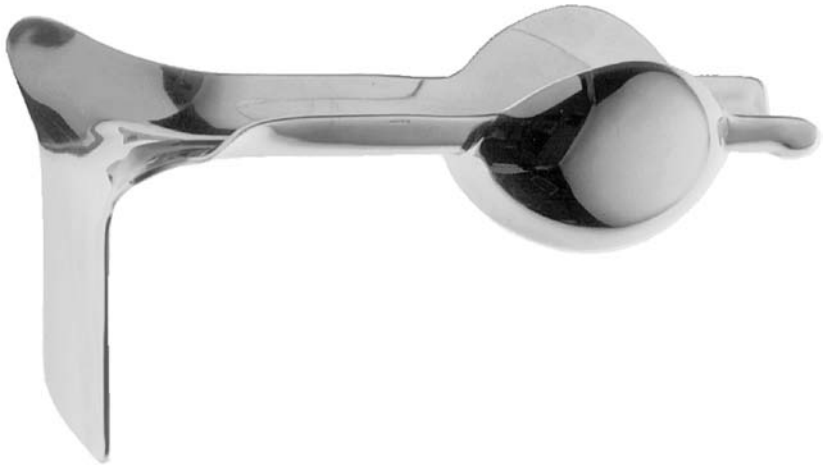
54-5578 BUSCH Umbilical Scissors, curved on side.
Length 6½″ (165mm)

SOUNDS, UTERINE



	SIMPSON Uterine Sound, silver plated.		
	Length	13⅜″	(340mm)
58-5669	Graduated in centimeters		

SPECULA, VAGINAL



	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)

SPECULA, VAGINAL



	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)



79-5592	BERLIND-AUVARD Vaginal Weighted Speculum.		
	Blade width	1¾″	(44mm)
	Blade depth	4″	(102mm)
	Length	9¼″	(235mm)
	Weight	2½ lb.	(1.14kg)

GRAVES Vaginal Specula, original model.

79-5513	Blade width	¾″	(19mm)
	Blade depth	3″	(76mm)
79-5514	Blade width	1¼″	(32mm)
	Blade depth	4″	(102mm)
79-5515	Blade width	1¼″	(32mm)
	Blade depth	4½″	(114mm)



GRAVES Vaginal Specula, modified model.

79-5590	Blade width	1¼″	(32mm)
	Blade depth	4″	(102mm)



SPECULA, VAGINAL



	PEDERSEN Vaginal Specula		
79-5520	Blade width	½″	(13mm)
	Blade depth	3″	(76mm)
79-5521	Blade width	⅞″	(22mm)
	Blade depth	3½″	(89mm)
79-5522	Blade width	1″	(25mm)
	Blade depth	4″	(102mm)



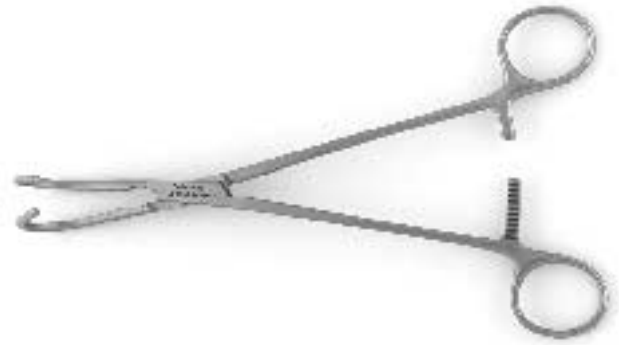
CARDIO-VASCULAR/THORACIC

METRIC
INCHES
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

32-3510	STONE Clamp Length	10¼″	26cm	



	WYLIE J Clamp Jaw	3.2cm		
32-3500	No. 1	Length	9⅝″	(24.4cm)
32-3501	No. 2	Length	9⅛″	(23.2cm)





CLAMPS, AORTA



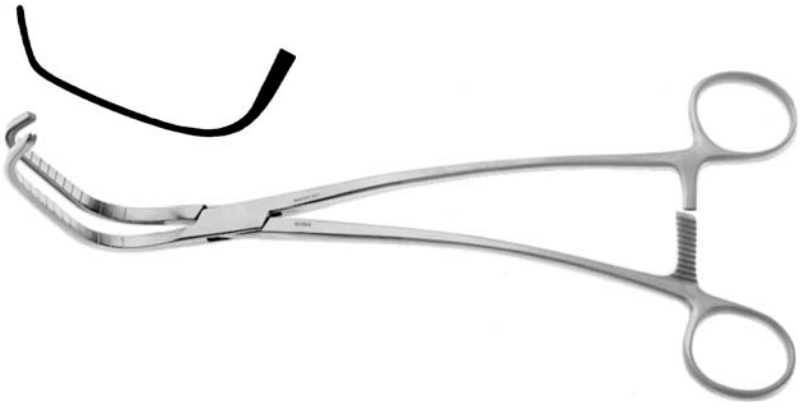
37-1272 BECK CLASSIC™ Miniature Aorta Clamp, 1x2 vascular teeth.

Jaw length	1⅛″	(29mm)
Jaw depth	5⁄16″	(7mm)
Total length	6¼″	(159mm)



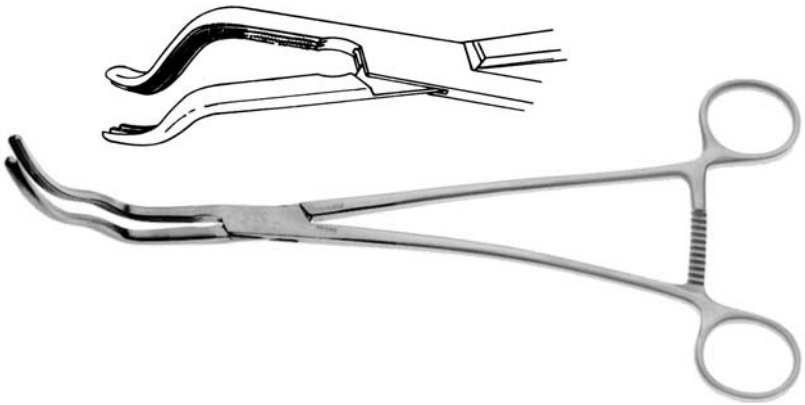
37-4010 CODMAN Clamp, aortic cross-clamp, angled jaws, curved handles. Requires 61mm jaw inserts.

Length	8½″	(21.6cm)



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

Jaw length	2⅞″	(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	2⅜″	(60mm)
Total length	10″	(254mm)

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

Jaw length	1¾″	(45mm)
Jaw depth	⅝″	(15mm)
Total length	8⅜″	(213mm)



37-1020 KAY CLASSIC™ Aorta Clamp, 1x2 vascular teeth.

Jaw length	2″	(51mm)
Jaw depth	1¼″	(32mm)
Total length	7½″	(191mm)



CLAMPS, AORTA



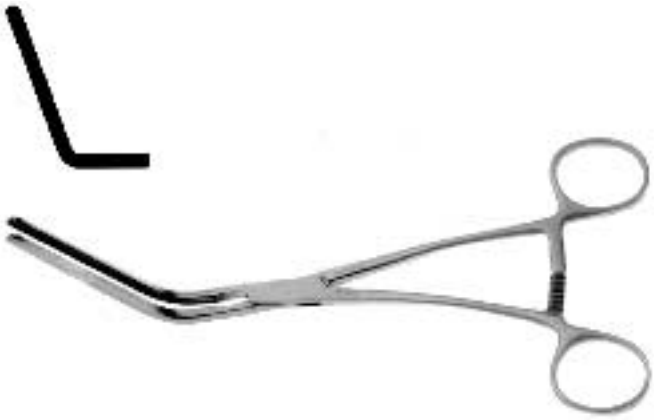
37-1025 LAMBERT-KAY CLASSIC™ Aorta Clamp, 1x2 vascular teeth.

Jaw length	2″	(51mm)
Jaw depth	3/4″	(20mm)
Total length	7 3/4″	(191mm)



37-1021 MATTOX CLASSIC Aorta Clamp, angled handles, 1x2 vascular teeth.

Jaw length	3″	(77mm)
Total length	8 3/4″	(222mm)



MORRIS CLASSIC™ Aorta Clamps, 2x3 vascular teeth.

37-1700	Jaw length	3″	(76mm)
	Total length	7 3/4″	(197mm)
37-1701	Jaw length	3″	(76mm)
	Total length	10 3/8″	(264mm)



37-1026 OCHSNER CLASSIC™ Aorta Clamp, 1x2 vascular teeth.

Jaw length	2⅛″	(55mm)
Jaw depth	¾″	(18mm)
Total length	10⅜″	(264mm)

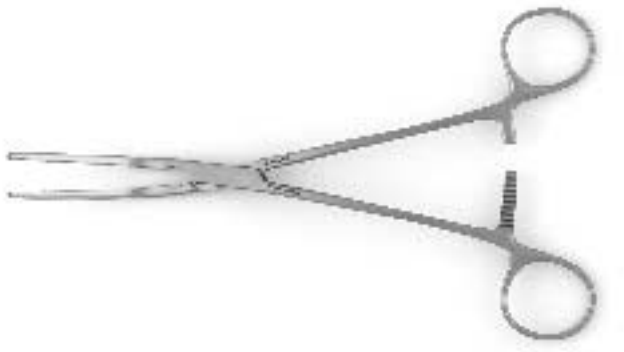
37-1024 REUL CLASSIC™ Aorta Clamp, partial occlusion, 2x2 vascular teeth.

Jaw length	2⅛″	(55mm)
Jaw depth	⅝″	(15mm)
Total length	10″	(254mm)

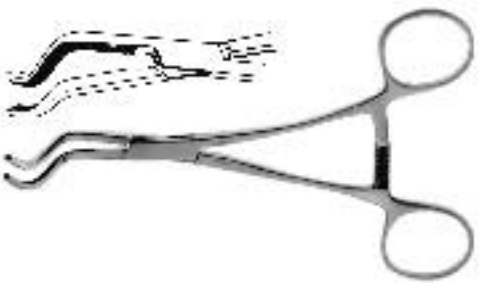


32-3503 SCHUMAKER Aortic Clamp, angled 60°

Jaw	4.8cm	
Length	8⅜″	(21.3cm)



CLAMPS, AORTA



37-1273	SUBRAMANIAN CLASSIC™ Miniature Aorta Clamp, 1x2 vascular teeth.		
	Jaw length	11 3/16″	(30mm)
	Total length	6 1/4″	(146mm)

CLAMP, AORTIC ANEURYSM



32-3504	DEBAKEY Aortic Aneurysm Clamp, reverse curve		
	Jaw	10.5cm	
	Length	11 3/4″	(30cm)



	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)

CLAMP, AORTIC ANUERYSM

32-3509	GRANT Aortic Aneurysm Clamp, reverse curve		
	Jaw	3″	7.5cm
	Length	9″	(23cm)

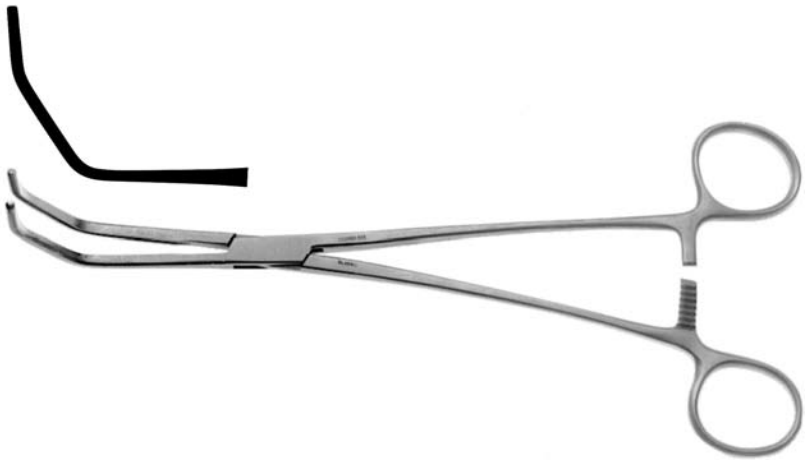


CLAMPS, AORTIC EXCLUSION

37-1120	DeBAKEY CLASSIC™ Aortic Exclusion Clamp, acute S-shape, 1x2 vascular teeth.		
	Jaw length	3″	(76mm)
	Jaw depth	9/16″	(14mm)
	Total length	7½″	(191mm)



CLAMPS, AURICLE



37-1105	GLOVER CLASSIC™ Auricle Appendage Clamp, 1x2 vascular teeth.		
	Jaw length	2″	(52mm)
	Jaw depth	¼″	(7mm)
	Total length	9¾″	(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)



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		



	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)

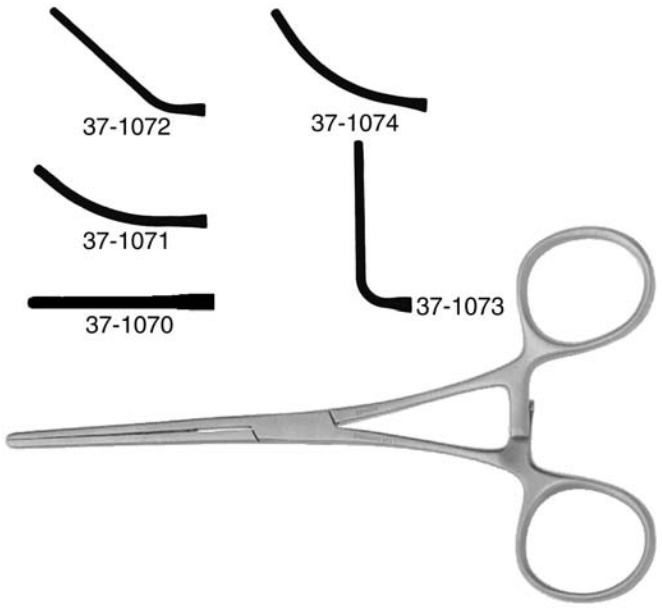
CLAMPS, BULLDOG



	COOLEY Bulldog Clamps		
37-4024	Jaw length, 2cm STRAIGHT		
	Length	2″	(5cm)
37-4025	Jaw length, 1.8cm CURVED		
	Length	1¾″	(4.5cm)



	DeBAKEY CLASSIC™ Bulldog Clamps, cross-action, 1x2 vascular teeth.		
	Tension	6 lbs.	(2.7kg)
	Straight		
37-1040	Jaw length	¾″	(20mm)
	Total length	3⅛″	(79mm)
37-1041	Jaw length	1¼″	(30mm)
	Total length	3½″	(89mm)
37-1042	Jaw length	1¾″	(45mm)
	Total length	4⅛″	(105mm)
37-1043	Jaw length	2½″	(65mm)
	Total length	5″	(127mm)
	Curved		
37-1044	Jaw length	¾″	(20mm)
	Total length	3″	(76mm)
37-1045	Jaw length	1 3/16″	(30mm)
	Total length	3⅜″	(86mm)
37-1046	Jaw length	1¾″	(45mm)
	Total length	4⅛″	(105mm)
37-1047	Jaw length	2½″	(65mm)
	Total length	4¾″	(121mm)



	DeBAKEY CLASSIC™ Bulldog Clamps, ring handle, 1x2 vascular teeth.		
37-1070	Straight		
	Jaw length	1 9/16″	(38mm)
	Total length	5⅜″	(137mm)
37-1071	Curved		
	Jaw length	1 9/16″	(38mm)
	Total length	5″	(127mm)
37-1072	Angled 45°, curved shafts.		
	Jaw length	1⅝″	(41mm)
	Total length	5″	(127mm)
37-1073	Angled 90°, straight shafts.		
	Jaw length	1⅝″	(41mm)
	Total length	3¾″	(95mm)
37-1074	S-shaped, curved jaws, curved shafts.		
	Jaw length	1 9/16″	(38mm)
	Total length	5″	(127mm)

DIETHRICH Bulldog Clamps
Tension 55 gms.

19-8090	Angled		
	Jaw length	½″	(12mm)
	Total length	1¾″	(45mm)
19-8092	Straight		
	Jaw length	⅝″	(15mm)
	Total length	2″	(50mm)
19-8091	Angled		
	Jaw length	½″	(12mm)
	Total length	1⅞″	(47mm)
19-8093	Straight		
	Jaw length	¾″	(20mm)
	Total length	2 1/16″	(52mm)
19-8095	Angled		
	Jaw length	¾″	(20mm)
	Total length	2″	(50mm)
19-8094	Straight		
	Jaw length	¾″	(20mm)
	Total length	2 1/16″	(52mm)



DIETHRICH Modified Tension Bulldog Clamps
Tension 180 gms.

19-8097	Angled		
	Jaw length	½″	(12mm)
	Total length	1⅞″	(47mm)
19-8099	Straight		
	Jaw length	¾″	(20mm)
	Total length	2 1/16″	(52mm)



GLOVER CLASSIC™ Bulldog Clamps, 1x2 vascular teeth.
Straight

37-1050	Jaw length	¾″	(18mm)
	Total length	2¾″	(70mm)
37-1051	Jaw length	1 1/16″	(27mm)
	Total length	3⅛″	(79mm)
37-1052	Jaw length	1¾″	(43mm)
	Total length	3¾″	(95mm)
37-1053	Jaw length	2⅜″	(60mm)
	Total length	4½″	(114mm)



CLAMPS, BULLDOG



	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	11 5/16″	(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		



	JOHNS HOPKINS Bulldog Clamps		
	Serrated		
	Jaw length	3/8″	(10mm)
	Total length	1½″	(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	¾″	(20mm)
	Total length	2¼″	(57mm)
	Closing Pressure 9lbs.		
19-8072	Straight		
19-8082	Curved		
	Jaw length	1¼″	(30mm)
	Total length	2½″	(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	1¼″	(3.2cm)

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.



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.

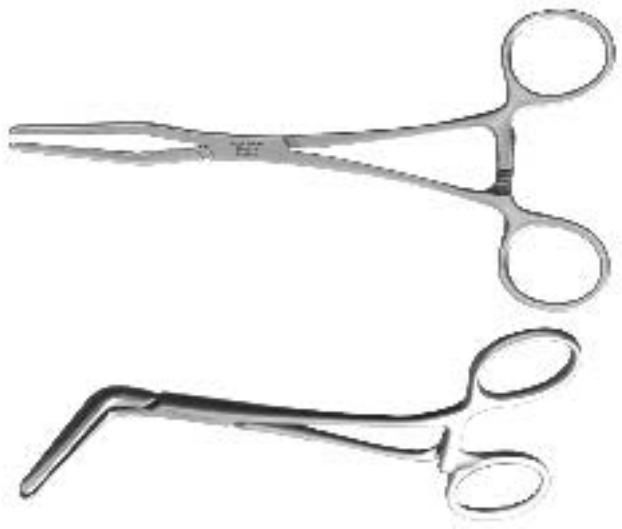
37-4009	CODMAN Clamp, similar to FOGARTY* Hydragrip®. Angled jaws, curved handles. Requires 86mm jaw inserts.		
	Length	9¼″	(23.5cm)

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

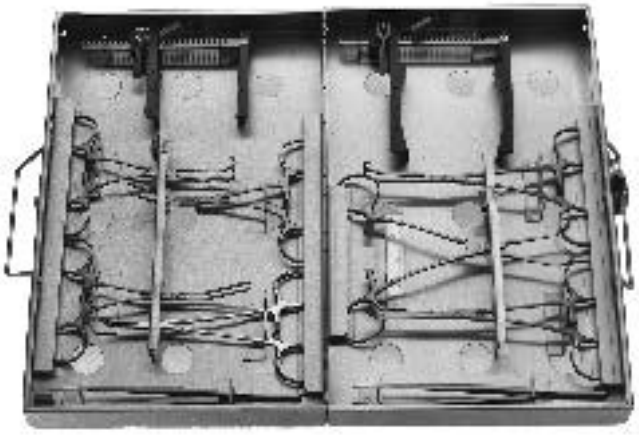
CODMAN Clamp, similar to FOGARTY* Hydragrip®. Requires 33mm jaw inserts.

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 CASTANEDA Kit is a group of instruments specifically designed for infant cardiovascular surgery.

30-9025	CASTANEDA Kit includes:		
	CASTANEDA Clamps		
	Length	5⅛″	(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	4⅝″	(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.

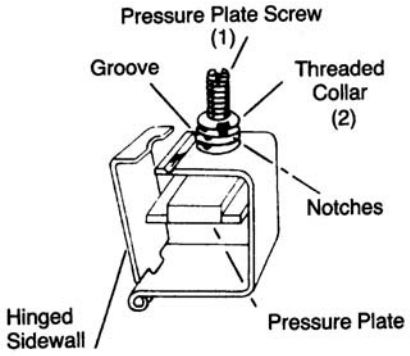
CLAMPS, CAROTID ARTERY



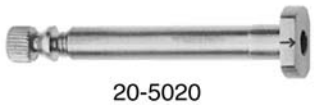
	JAVID Carotid Artery Bypass Clamps, angled jaws.		
37-4019	Length 6mm ring	7″	(17.8cm)
37-4020	Length 4mm ring	6¼″	(15.9cm)

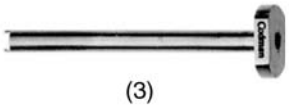
19-1014 SALIBI Carotid Artery Clamp
The emerging stem (1) is a handle for the clamp and also a cannula-like groove into which the other instruments are applied.
The threaded cap (2) screws onto exposed end of emerging stem when not in use.
The screwdriver guide (3), with two projecting tip teeth which 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

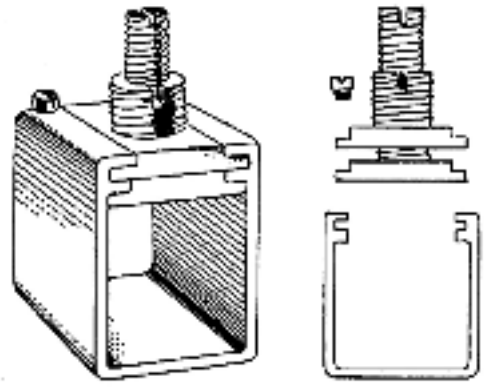

20-5020


(3)


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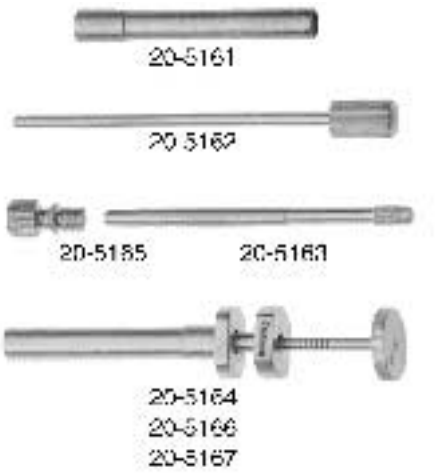
SELVERSTONE Carotid Artery Clamps, used for the gradual occlusion of the internal carotid artery, the emerging stem may be removed without disturbing the vessel and the clamp may remain on the vessel permanently.

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



CARDIO-VASCULAR THORACIC

CLAMPS, CAROTID ARTERY



	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

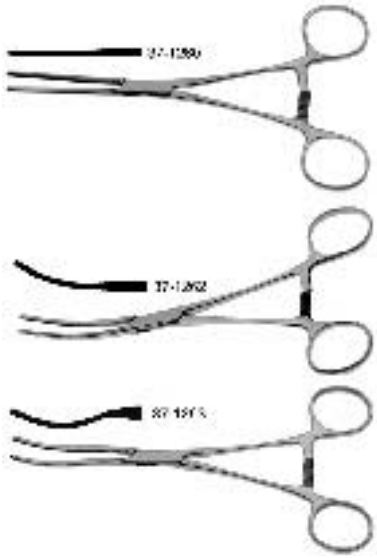
It is recommended that a second set of tools be kept at hand in case of loss or misplacement.

CLAMPS, CAVAL OCCLUSION

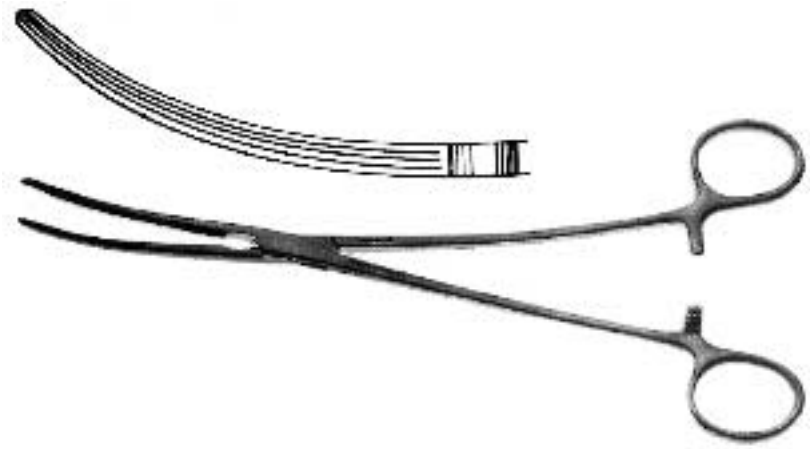


32-3502	COOLEY Clamp, Caval Occlusion		
	Length	8¼″	(21cm)
	Size	36FR	

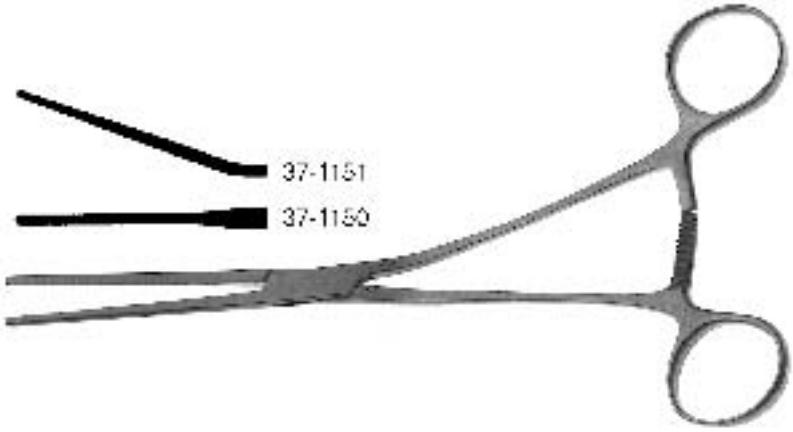
CLAMPS, COARCTATION



	COOLEY CLASSIC™ Coarctation Clamps, calibrated jaws, 2x2 vascular teeth.		
37-1260	Straight jaws, straight shafts		
	Jaw length	1⅝″	(40mm)
	Total length	6¾″	(171mm)
37-1261	Straight jaws, angled shafts		
	Jaw length	1⅝″	(40mm)
	Total length	6¾″	(171mm)
37-1262	Curved jaws, straight shafts		
	Jaw length	1⅝″	(40mm)
	Total length	6¾″	(171mm)
37-1263	Spoon-shaped jaws		
	Jaw length	1¾″	(45mm)
	Total length	7″	(178mm)

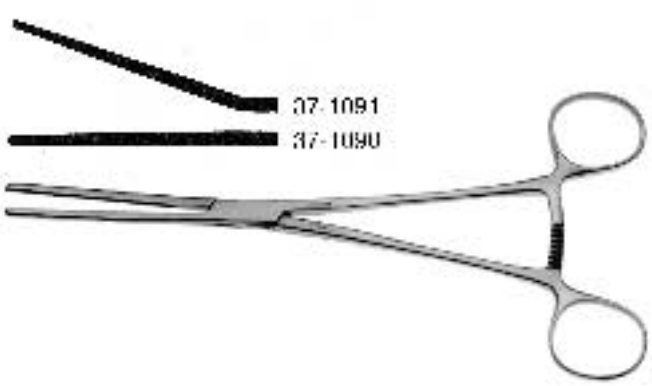


19-8104	CRAFOORD Coarctation Clamps curved jaws.		
	Jaw length	2½″	(63mm)
	Total length	9½″	(241mm)



	DeBAKEY CLASSIC™ Coarctation and Peripheral Vascular Clamps, 1x2 vascular teeth.		
37-1150	Straight		
	Jaw length	2⅛″	(55mm)
	Total length	8½″	(216mm)
37-1151	Angular		
	Jaw length	2⅛″	(55mm)
	Total length	8⅜″	(213mm)

CLAMPS, COARCTATION



	GLOVER CLASSIC™ Coarctation Clamps, 1x2 vascular teeth.		
37-1090	Straight		
	Jaw length	2⅛″	(55mm)
	Total length	8½″	(216mm)
37-1091	Angular		
	Jaw length	2⅛″	(55mm)
	Total length	8½″	(216mm)



	GLOVER OPTI-LENGTH Coarctation Clamp.		
	Length	10″	(25.4cm)
67-7525	Straight		
67-7526	Curved		

CLAMPS, CRILE



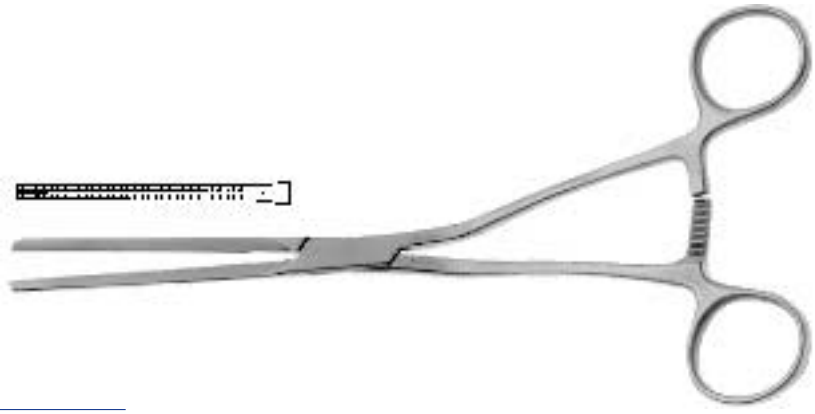
	CRILE-TYPE Clamp, serrated jaws.		
	Length	7½″	(19.1cm)
37-4037	Curved jaw	1½″	(3.8cm) long

CLAMP, GASTROINTESTINAL

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



CLAMPS, ILIAC



	COOLEY CLASSIC™ Iliac Clamps, angled shaft, 2x2 vascular teeth.		
37-1402	Jaw length	2⅜″	(60mm)
	Total length	8½″	(216mm)



67-7533	COOLEY OPTI-LENGTH ILIAC, Clamp, Angled, 2X2 Vascular teeth		
	Length	12″	(30.5cm)

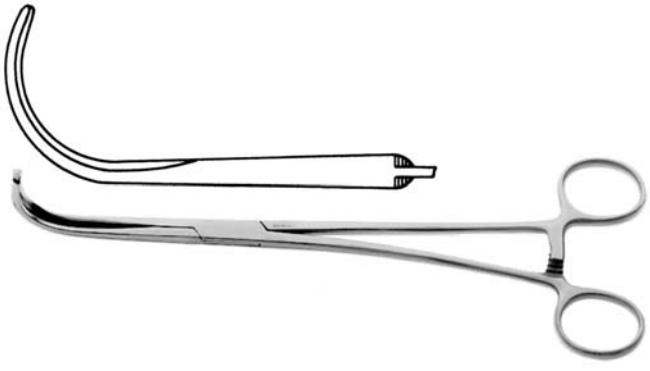
CLAMPS, LIGATURE CARRYING



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)

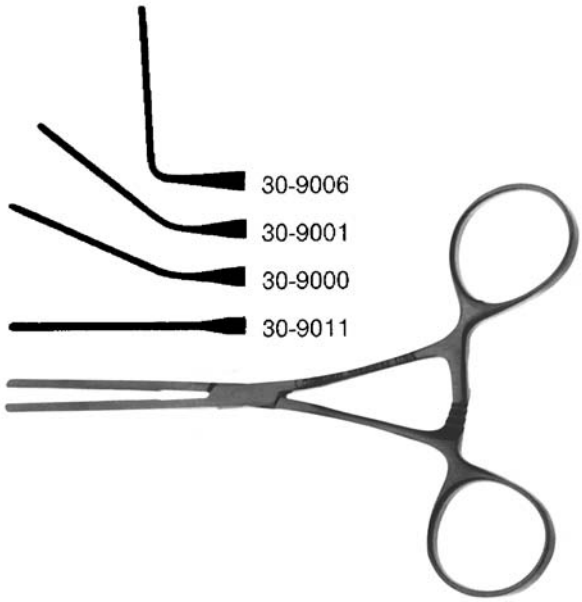


	DEBAKEY-SEMB OPTI-LENGTH, Ligature Carrying Clamp		
67-7534	Length	11″	(27.9cm)
67-7535	Length	12″	(30.5cm)

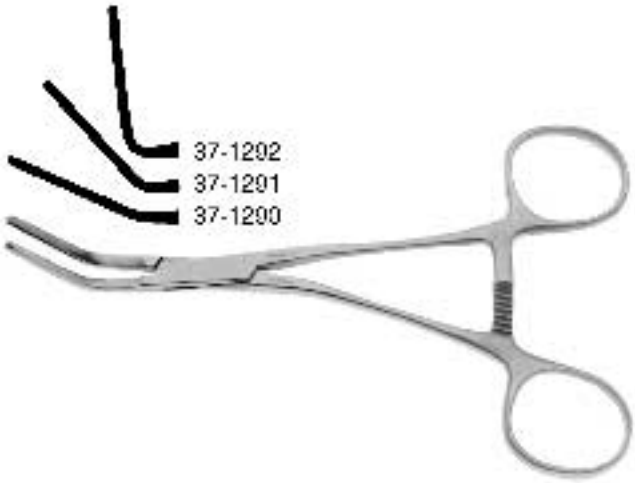


30-8056	SEMB Ligature Carrying Forceps, acute curve.		
	Length	9 1/2″	(241mm)

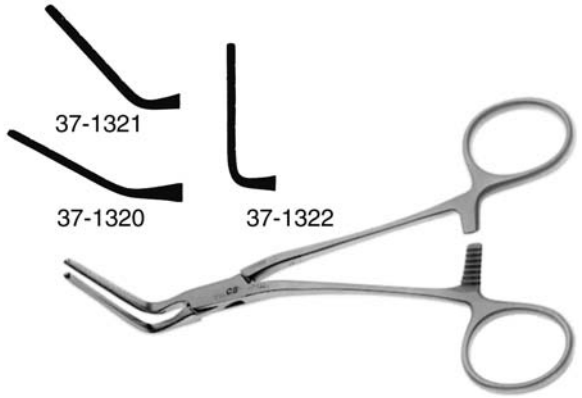
	CASTANEDA Multi-Purpose Clamps		
	Jaw length	1⅜″	(35mm)
	Total length	5″	(127mm)
30-9000	30° angle		
30-9001	50° angle		
30-9006	90° angle		
30-9011	Straight		



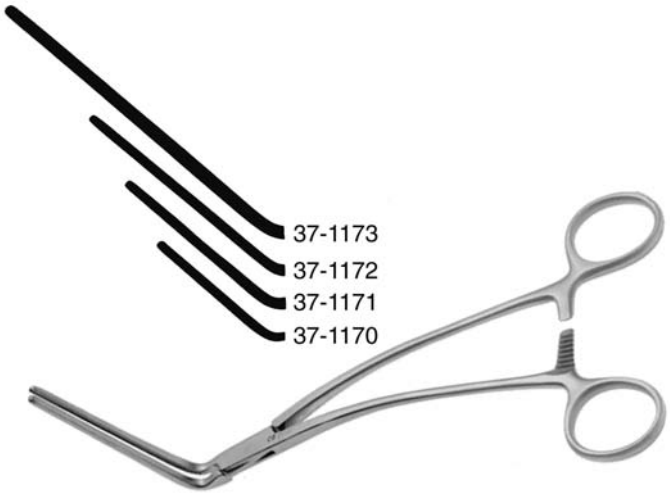
	COOLEY CLASSIC™ Multi-Purpose Clamps, calibrated jaws, 2x2 vascular teeth.		
37-1290	30° angle		
	Jaw length	1³⁄₁₆″	(30mm)
	Total length	6½″	(165mm)
37-1291	60° angle		
	Jaw length	1³⁄₁₆″	(30mm)
	Total length	6″	(152mm)
37-1292	90° angle		
	Jaw length	1³⁄₁₆″	(30mm)
	Total length	5½″	(140mm)



	DeBAKEY CLASSIC™ Multi-Purpose Clamps, 1x2 vascular teeth.		
37-1320	30° angle		
	Jaw length	1⅜″	(35mm)
	Total length	6½″	(165mm)
37-1321	60° angle		
	Jaw length	1⅜″	(35mm)
	Total length	6″	(152mm)
37-1322	90° angle		
	Jaw length	1⅜″	(35mm)
	Total length	6″	(152mm)



CLAMPS, MULTI-PURPOSE



DeBAKEY CLASSIC Multi-Purpose Clamps, 60° angle, 1x2 vascular teeth.

37-1170	Jaw length	1⅝″	(40mm)
	Total length	9⅝″	(244mm)
37-1171	Jaw length	2″	(50mm)
	Total length	8″	(203mm)
37-1172	Jaw length	2¾″	(70mm)
	Total length	9½″	(241mm)
37-1173	Jaw length	4″	(100mm)
	Total length	12″	(305mm)



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

37-1180	Jaw length	1⅝″	(40mm)
	Total length	8¾″	(222mm)
37-1181	Jaw length	2″	(50mm)
	Total length	7″	(178mm)
37-1182	Jaw length	2¾″	(70mm)
	Total length	8½″	(216mm)
37-1183	Jaw length	4″	(100mm)
	Total length	10½″	(267mm)

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, PATENT DUCTUS



	COOLEY CLASSIC™ Patent Ductus Clamps, straight jaws, 2x2 vascular teeth.		
37-1250	Straight shaft		
	Jaw length	1 3/16″	(30mm)
	Total length	6¼″	(159mm)
37-1251	Angular shaft		
	Jaw length	1 3/16″	(30mm)
	Total length	6¼″	(159mm)



	DeBAKEY CLASSIC™ Patent Ductus and Peripheral Vascular Clamps, 1x2 vascular teeth.		
37-1160	Straight shaft		
	Jaw length	1 3/16″	(30mm)
	Total length	7½″	(191mm)
37-1161	Angular shaft		
	Jaw length	1 3/16″	(30mm)
	Total length	7½″	(191mm)



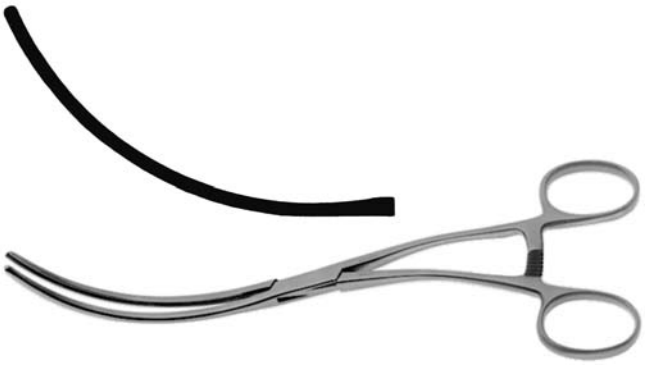
	GLOVER CLASSIC™ Patent Ductus Clamps, 1x2 vascular teeth.		
37-1085	Straight shaft		
	Jaw length	1 3/16″	(30mm)
	Total length	8″	(203mm)
37-1086	Angular shaft		
	Jaw length	1 3/16″	(30mm)
	Total length	8″	(203mm)

CLAMPS, PERIPHERAL VASCULAR



37-1110 DeBAKEY CLASSIC™ Peripheral Vascular Clamp, angled, 1x2 vascular teeth.

Jaw length	2½″	(65mm)
Total length	7″	(178mm)



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	1⅝″	(41mm)
Jaw depth	5/16″	(8mm)
Total length	6½″	(165mm)



LELAND JONES CLASSIC Peripheral Vascular Clamps, 1x2 vascular teeth.

Jaw length	2⅝″	(67mm)
Total length	7½″	(191mm)

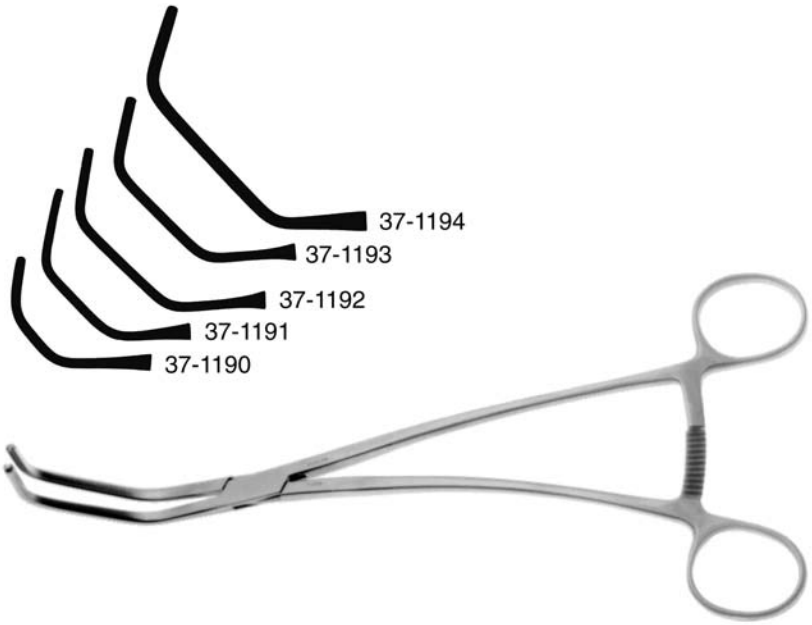
37-1080 15° angle
37-1081 30° angle

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	71 1/16″	(195mm)
37-1242	Jaw length	1″	(25mm)
	Total length	10 5/8″	(270mm)

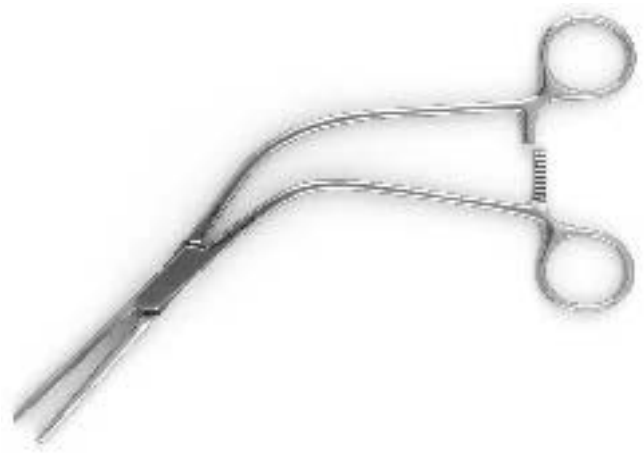


CLAMPS, TANGENTIAL OCCLUSION



	DeBAKEY CLASSIC™ Tangential Occlusion Clamps, 1x2 vascular teeth.		
37-1190	Jaw length	1 5/8″	(40mm)
	Jaw depth	1/2″	(13mm)
	Total length	7 1/2″	(191mm)
37-1191	Jaw length	11 5/16″	(48mm)
	Jaw depth	5/8″	(15mm)
	Total length	9 3/4″	(248mm)
37-1192	Jaw length	2 3/8″	(60mm)
	Jaw depth	5/8″	(15mm)
	Total length	10″	(254mm)
37-1193	Jaw length	2 3/8″	(60mm)
	Jaw depth	5/8″	(15mm)
	Total length	10 1/4″	(260mm)
37-1194	Jaw length	3″	(75mm)
	Jaw depth	5/8″	(15mm)
	Total length	10 5/8″	(270mm)

CLAMP, TIBIAL



32-3506	Demos Tibial Artery Clamp		
	Jaw	1½″	4.0cm
	Length	8¼″	(21cm)

CLAMP, TUBING



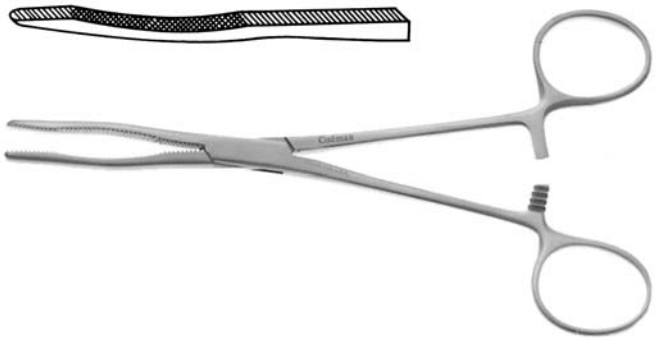
19-8010	CODMAN Tubing Clamp, should be used with tubing no larger than ¼″ in diameter.		
	Jaw length to cuff	1 5/16″	(32mm)
	Length	7½″	(191mm)

CLAMP, TUBING

	CODMAN Clamp Forceps with Guard	Length	
32-3512	Tubing 1CM	6″	(15.2cm)
32-3513	Tubing 1.6CM	7¼″	(18.4cm)
32-3514	Tubing 2.2CM	8″	(20.3cm)



19-4133	TUBING Clamp, cross-hatched jaws.		
	Jaw length	1¾″	(45mm)
	Tubing jaw length	1″	(25mm)
	Tubing jaw opening with closed ratchets	⅛″	(3mm)
	Length	6½″	(165mm)



CLAMPS, VASCULAR

37-1225	Anastomosis CLASSIC Clamp, blades calibrated at 5mm intervals, 2x2 vascular teeth.		
	Jaw length	1⅝″	(40mm)
	Jaw depth	¾″	(20mm)
	Total length	6½″	(165mm)

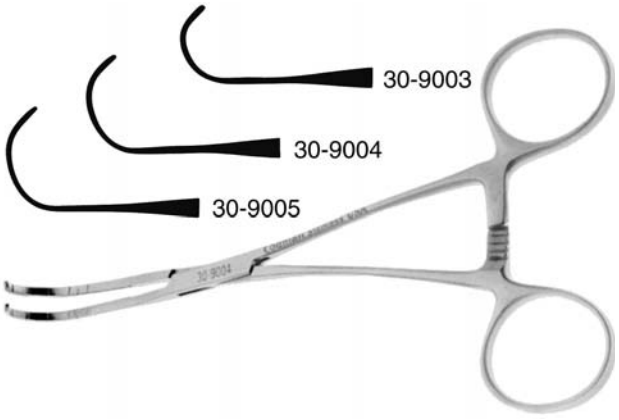


CLAMPS, VASCULAR



37-1305 BARTLEY CLASSIC Anastomosis Clamp, blades calibrated at 5mm intervals, 2x2 vascular teeth.

Jaw length	1″	(25mm)
Jaw depth	½″	(13mm)
Total length	5½″	(140mm)



CASTANEDA Anastomosis Clamps

30-9003	Jaw length	⅝″	(15mm)
	Jaw depth	⅕″	(5mm)
	Total length	6″	(152mm)
30-9004	Jaw length	¾″	(18mm)
	Jaw depth	¼″	(6mm)
	Total length	6″	(152mm)
30-9005	Jaw length	⅞″	(21mm)
	Jaw depth	⅓″	(7mm)
	Total length	6″	(152mm)

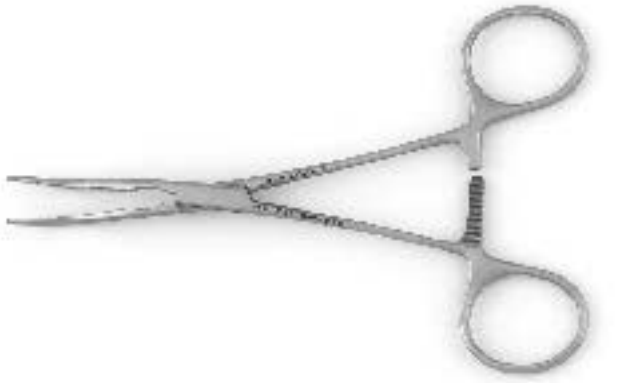


30-9002 CASTANEDA Partial Occlusion Clamp, spoon-type.

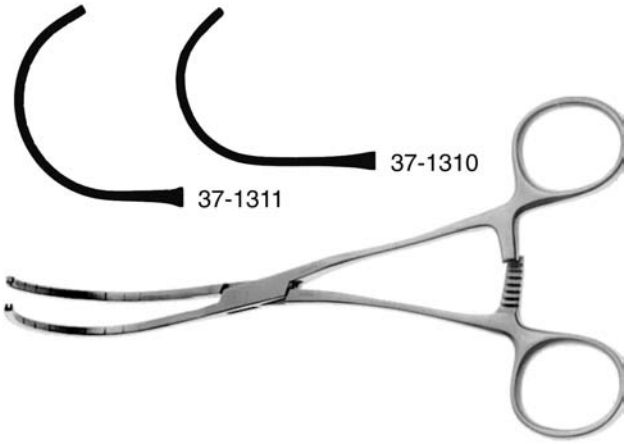
Jaw length	1 5⁄16″	(24mm)
Jaw depth	5⁄16″	(8mm)
Total length	4¾″	(121mm)

Codman

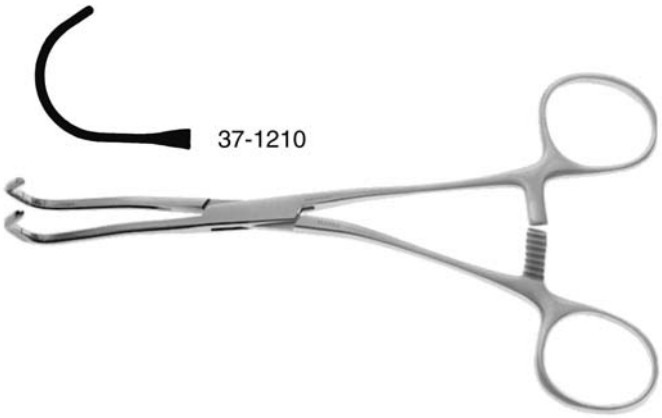
32-3508	CODMAN Clamp, Spoon, Small		
	Depth	1¾″ × 7⁄16″	
	Length	5 15⁄16″	(14.8cm)

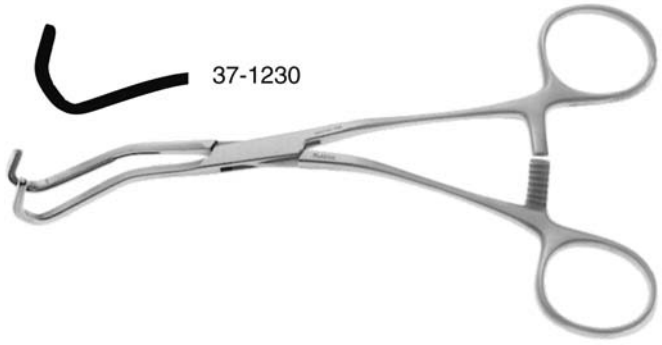


	COOLEY CLASSIC Acutely Curved Clamps, blades calibrated at 5mm intervals, 2x2 vascular teeth.		
37-1310	Medium		
	Jaw length	1 9⁄16″	(38mm)
	Jaw depth	5⁄8″	(15mm)
	Total length	6½″	(165mm)
37-1311	Large		
	Jaw length	1¾″	(45mm)
	Jaw depth	¾″	(20mm)
	Total length	6⅞″	(174mm)



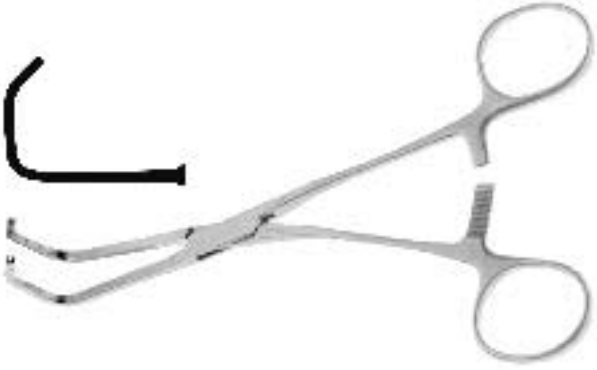
CLAMPS, VASCULAR





COOLEY CLASSIC Anastomosis Clamps, blades calibrated at 5mm intervals, 2x2 vascular teeth.

	Jaw length	¾″	(20mm)
	Jaw depth	¼″	(6mm)
	Total length	6½″	(165mm)
37-1210	Standard		
37-1230	Modified, 30° side angle		

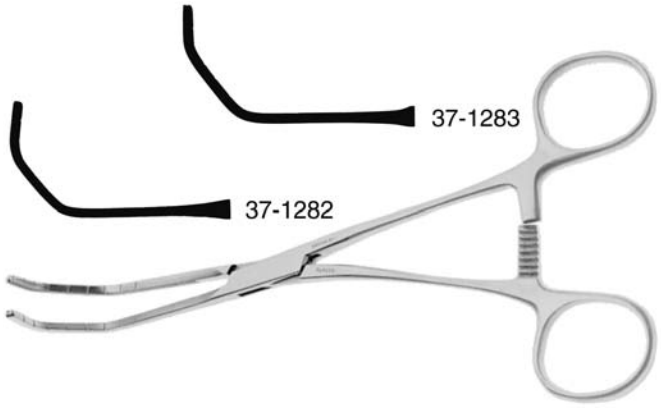


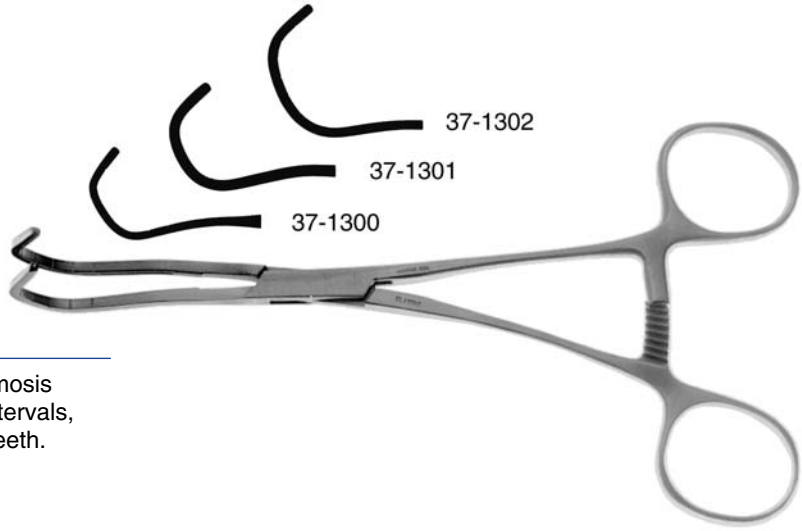
COOLEY CLASSIC Vascular Clamps, blades calibrated at 5mm intervals, 2x2 vascular teeth.

37-1280	90° angle, small		
	Jaw length	1″	(25mm)
	aw depth	5/16″	(7mm)
	Total length	6½″	(165mm)

COOLEY CLASSIC Vascular Clamps, blades calibrated at 5mm intervals, 2x2 vascular teeth.

37-1282	60° angle, small		
	Jaw length	1″	(25mm)
	Jaw depth	5/16″	(7mm)
	Total length	6¾″	(171mm)
37-1283	60° angle, large		
	Jaw length	2″	(51mm)
	Jaw depth	5/16″	(7mm)
	Total length	7″	(178mm)





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	½″	(12mm)
	Total length	6½″	(165mm)
37-1301	Medium		
	Jaw length	1½″	(38mm)
	Jaw depth	½″	(12mm)
	Total length	6¾″	(171mm)
37-1302	Large		
	Jaw length	1¾″	(45mm)
	Jaw depth	½″	(12mm)
	Total length	7″	(178mm)

CLAMPS, VASCULAR



67-7564	COOLEY OPTI-LENGTH, Anastomosis Clamp		
	Length	12″	(30.5cm)



32-3505	DALE FEMORAL-POPLITEAL Vascular Clamp, Large		
	Jaw	2.5cm	
	Length	7¼″	(18.4cm)



32-3507	DEBAKEY-BAINBRIDGE Vascular Clamp, 2 x 3 Teeth, 4cm Jaw		
	Length	7″	(17.8cm)

32-3511	DEBAKEY-BAINBRIDGE Vascular Clamp, small curve		
	Jaw	2¾″	6.7cm
	Length	7¼″	(18.4cm)



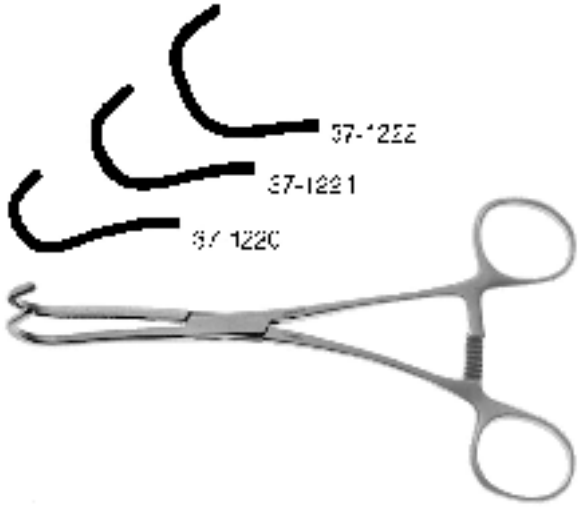
	DeBAKEY CLASSIC Vascular Clamps, acutely curved, 1x2 vascular teeth.		
37-1130	Jaw length	2″	(50mm)
	Jaw depth	⅜″	(10mm)
	Total length	9½″	(241mm)
37-1131	Jaw length	2¾″	(70mm)
	Jaw depth	1″	(25mm)
	Total length	10½″	(267mm)



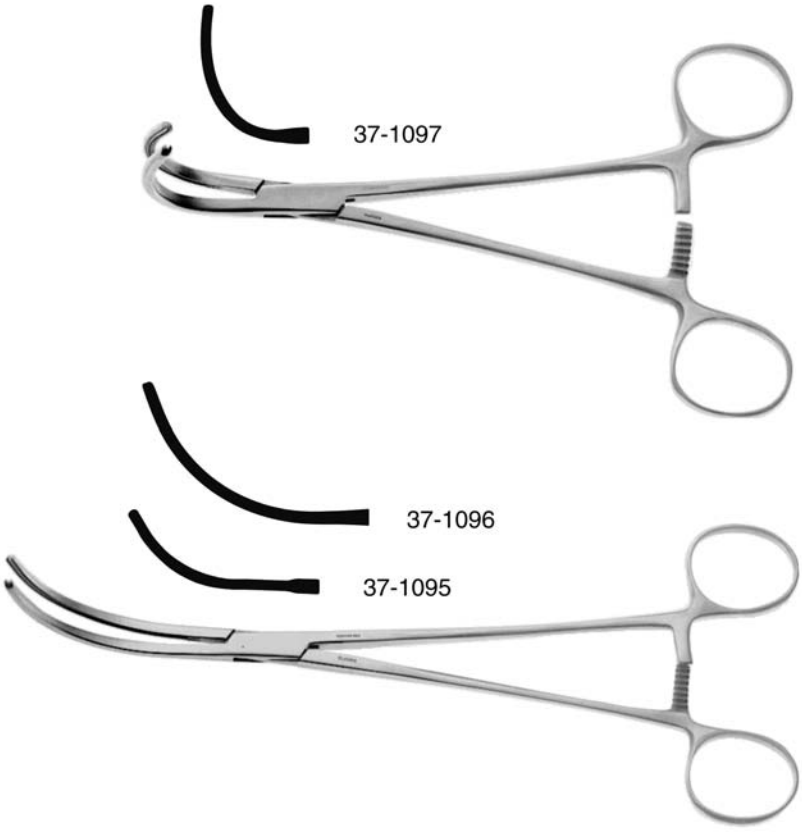
	DEBAKEY OPTI-LENGTH Vascular Clamp		
67-7523	Length	9″	(22.9cm)
67-7524	Length	10″	(25.4cm)



	DERRA CLASSIC Anastomosis Clamps, 1x2 vascular teeth.		
37-1220	Small		
	Jaw length	¾″	(18mm)
	Jaw depth	½″	(12mm)
	Total length	6½″	(165mm)
37-1221	Medium		
	Jaw length	1″	(25mm)
	Jaw depth	½″	(12mm)
	Total length	6½″	(165mm)
37-1222	Large		
	Jaw length	1⅜″	(35mm)
	Jaw depth	½″	(12mm)
	Total length	6¾″	(171mm)



CLAMPS, VASCULAR



	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)

GLOVER CLASSIC™ Spoon-shaped Clamps, 1x2 vascular teeth.

37-1100	Standard		
	Jaw length	1¾″	(45mm)
	Jaw depth	5⁄16″	(7mm)
	Total length	8½″	(216mm)
37-1101	Extra long		
	Jaw length	2⅜″	(60mm)
	Jaw depth	5⁄16″	(7mm)
	Total length	10″	(254mm)



37-1275 HENLY CLASSIC Modified Vascular Clamp, 1x2 vascular teeth.

Jaw length	¾″	(20mm)
Total length	7½″	(191mm)



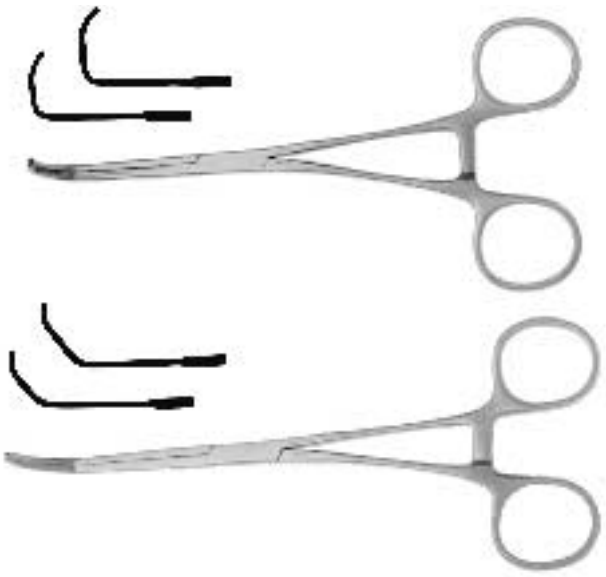
37-1030 LEES CLASSIC Right Angle Clamp, 1x2 vascular teeth.

Jaw length	1⅝″	(40mm)
Total length	8½″	(216mm)

See also CLAMPS, Bronchus, LEES CLASSIC™ 37-1035

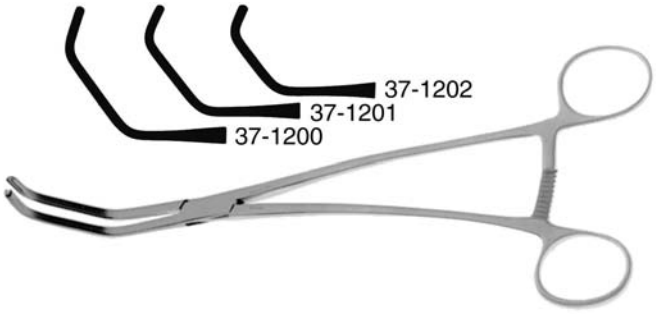


CLAMPS, VASCULAR



	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)

CONTRACTORS



50-8050	BAILEY Rib Contractor, ratchet action.		
	Total opening	4 5/8″	(117mm)
	Length	7 1/8″	(181mm)
	Blade Length		(34mm)

CONTRACTORS

50-8055 BAILEY-GIBBON Rib Contractor, ratchet action, extended blades.

Total opening	4⅝″	(117mm)
Length	7⅛″	(181mm)
Blade Length		(44mm)



DILATORS, MITRAL

25-8009 MYOCARDIAL Dilator, with 2mm tip width graduated to 17.5mm.

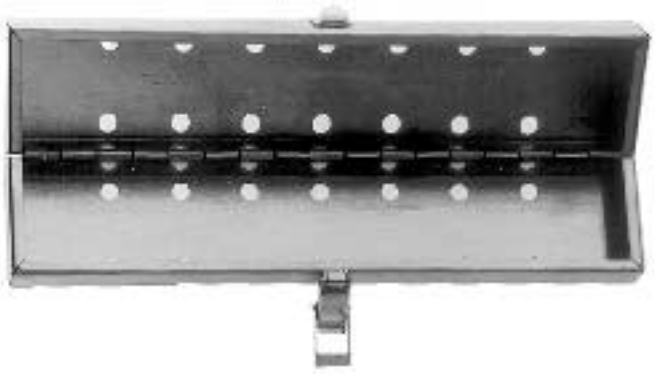
Length	5¾″	(146mm)



DILATORS, VASCULAR

21-8005 CODMAN Dilator Case, Stainless Steel.

Length	9″	(229mm)
Width	1¾″	(44mm)
Depth	1⅛″	(29mm)



DILATORS, VASCULAR



	GARRETT Vascular Dilators, malleable shaft.		
	Length	5½″	(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)



	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)

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)

FORCEPS



	DEBAKEY OPTI-LENGTH FORCEPS		
	Tip Width	Length	
67-7800	1.5mm	12″	(30.5cm)
67-7801	2mm	12″	(30.5cm)
67-7802	1.5mm	14″	(35.6cm)
67-7803	2mm	14″	(35.6cm)

FORCEPS, ARTERY



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

FORCEPS, CLIP APPLYING

	These applicator forceps are used with EDWARDS Parallel Jaw Spring Clips. (sold separately)		
37-4016	Spring Clip Applier		
	Length	7¼″	(18.4cm)



FORCEPS, CORONARY



	I.M.A. Forceps titanium 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

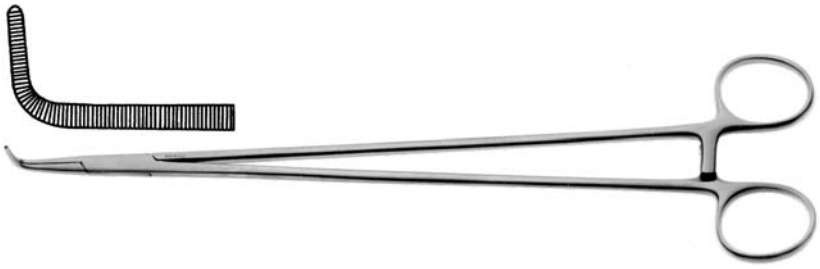


30-8092 ROCHESTER-CARMALT Hemostatic Forceps, longitudinal serrations, curved.

Length	12¼″	(312mm)



30-4700	BRIDGE Intestinal Forceps, curved.		
	Length	11″	(279mm)



30-4701	MEEKER Intestinal Forceps, right angle.		
	Length	10¾″	(273mm)

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

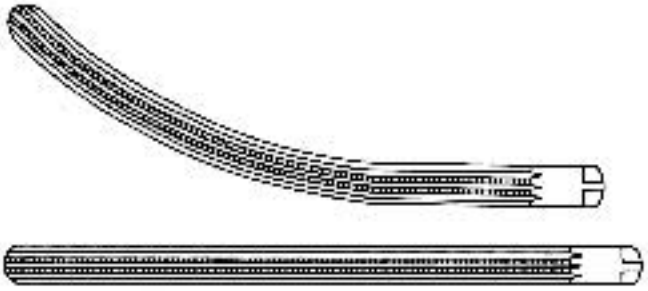


FORCEPS, INTESTINAL



DOYEN Intestinal Forceps, diagonal serrations.

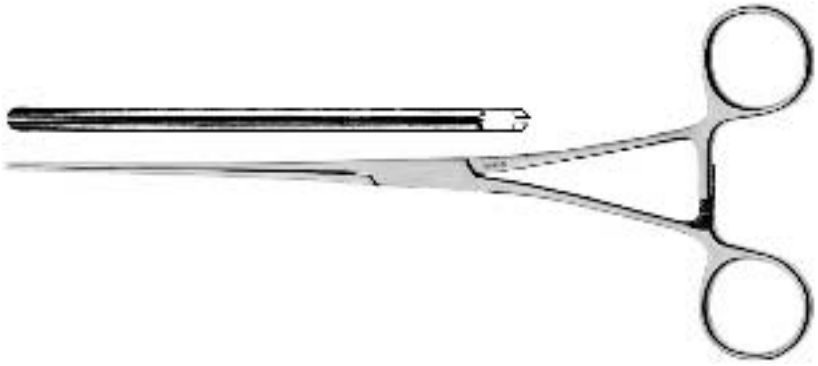
	Jaw length	4⅛″	(105mm)
	Total length	9¼″	(235mm)
30-4305	Straight		
30-4306	Curved		





DOYEN Vascular Toothed Intestinal Clamps, 2x3 vascular teeth.

	Jaw length	3¾″	(95mm)
	Total length	9″	(229mm)
37-1600	Straight		
37-1601	Curved		



KOCHER Intestinal Forceps, longitudinal serrations.

30-4300	Straight	Length	11″	(279mm)



KOCHER Intestinal Forceps

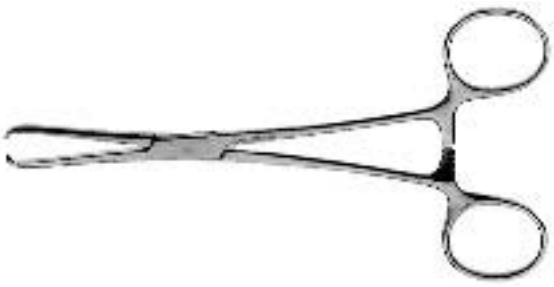
	Length	5½″	(14cm)
32-3525	Straight		
32-3526	Curved		



MASTERS Intestinal Clamps

19-4061	Jaw length	6½″	(165mm)
	Total length	10¾″	(273mm)
19-4062	Jaw length	4½″	(114mm)
	Total length	9¼″	(235mm)

FORCEPS, INTESTINAL



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



19-4096	STONE Clamp Locking Device		



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

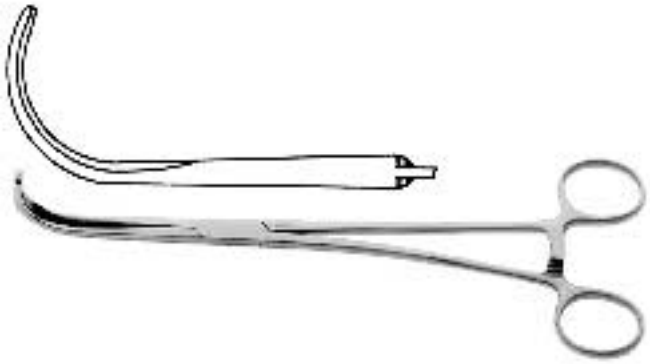
FORCEPS, LIGATURE



37-1132	DeBAKEY-SEMB CLASSIC™ Ligature Carrying Forceps, 1x2 vascular teeth.		
	Length of serrations	⅝″	(15mm)
	Jaw length	2¼″	(57mm)
	Total length	10″	(254mm)

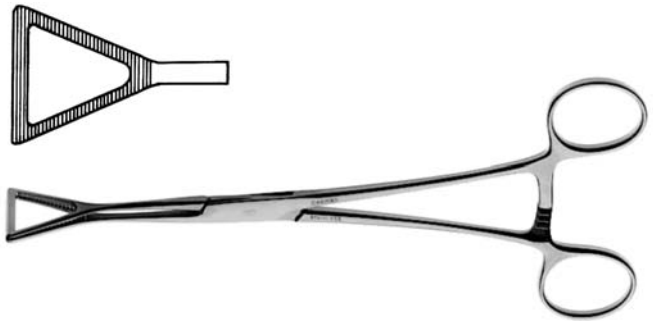
FORCEPS, LIGATURE

30-8056 SEMB Ligature Carrying Forceps, acute curve.
Length 9½″ (241mm)



FORCEPS, LUNG

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



36-6055 DUVAL CLASSIC PLUS® Lung Grasping Forceps, tungsten carbide tip inserts, triangular jaws.
Jaw width ⅜″ (10mm)
Total length 8¼″ (210mm)



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, smooth jaws
19-8029	1⅝″ (40mm) gold band

FORCEPS, THORACIC





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

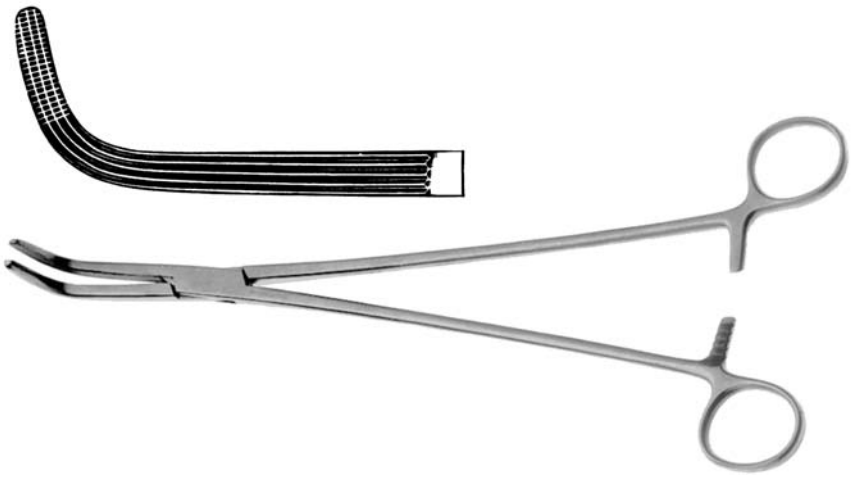
HARRINGTON Forcep, Right Angled

	Length	
32-3551	12¼″	(31.1cm)
32-3552	14″	(35.6cm)



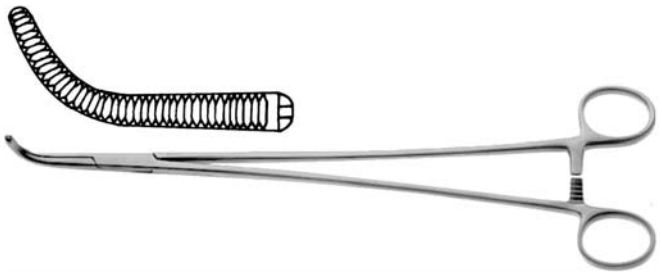


30-8051 HARRINGTON-MIXTER Thoracic Clamp Forceps, right angled, longitudinal serrations with cross-serrated tips.
Length 12¼″ (311mm)



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

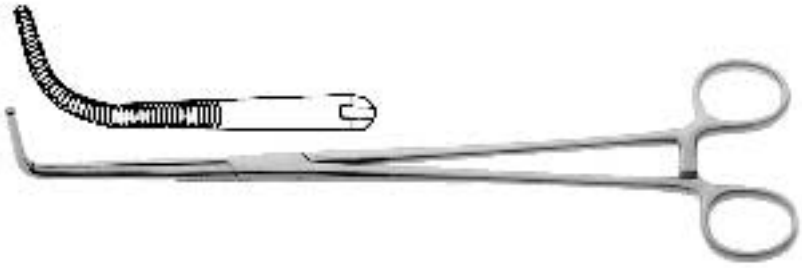
FORCEPS, THORACIC



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

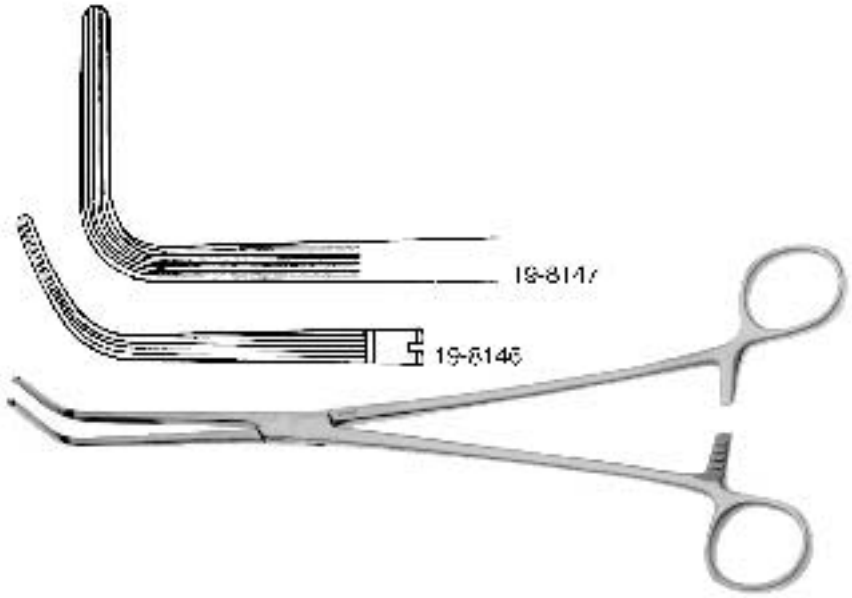


37-4034 JULIAN Thoracic Artery Forceps, 24mm jaw length, slightly curved.
Length 9¼″ (23.5cm)



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

Codman



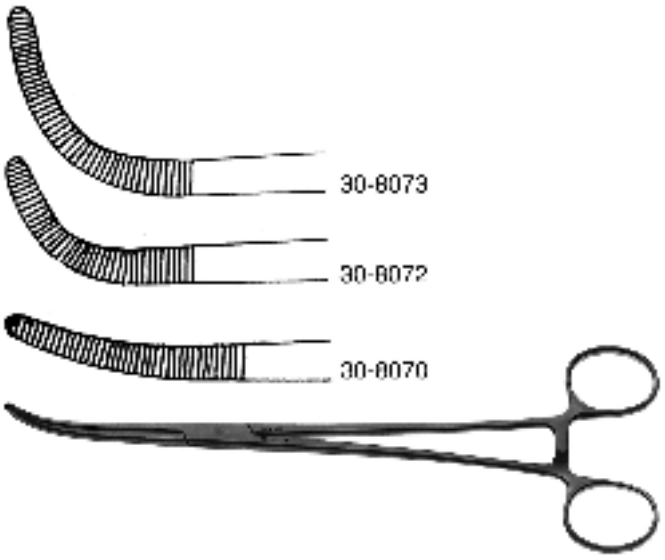
MIXTER Thoracic Clamp Forceps, angular, longitudinal serrations.
Length 11″ (279mm)

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

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



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

32-3547 WILLAUER-ALLIS Forcep
Length 14″ (35.6cm)
Teeth 3 × 3





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

FORCEPS, TISSUE

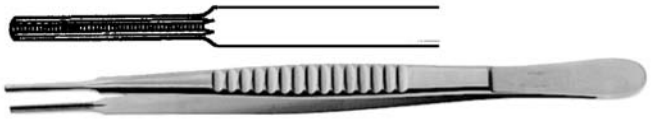
37-4028 COOLEY Vascular Tissue Forceps, fine 1mm cross-serrated jaws.
Length 8″ (20.5cm)



32-3550 DEBAKEY Thoracic Tissue Forcep
Length 14″ (35.6cm)



FORCEPS, TISSUE



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.



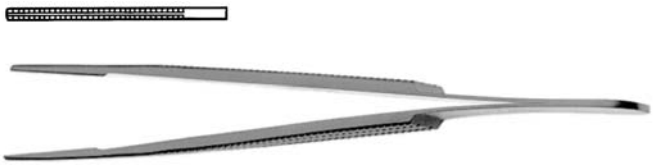
32-3549 DEBAKEY-COLLIER Tissue Forcep, Serrated, Angled

Length	14″	(35.6cm)



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)



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	7¾″	(197mm)

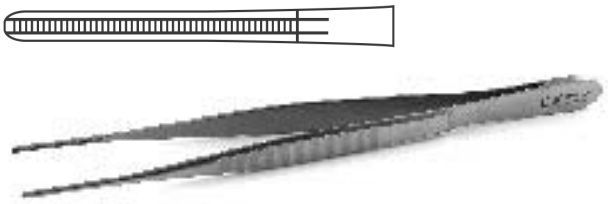
Tip width is measured 1mm from the instrument tip.



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.

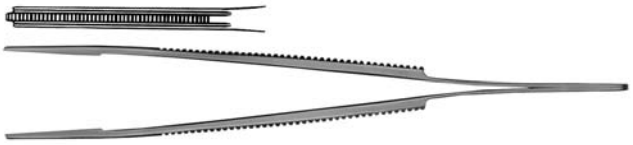


DEBAKEY-DIETHRICH Vascular Tissue Forcep, Delicate tip

	Tip width	Length	
32-3535	.1cm	6″	(15.2cm)
32-3536	.1cm	7¾″	(19.7cm)
32-3537	.1cm	9½″	(24.1cm)



FORCEPS, VASCULAR



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

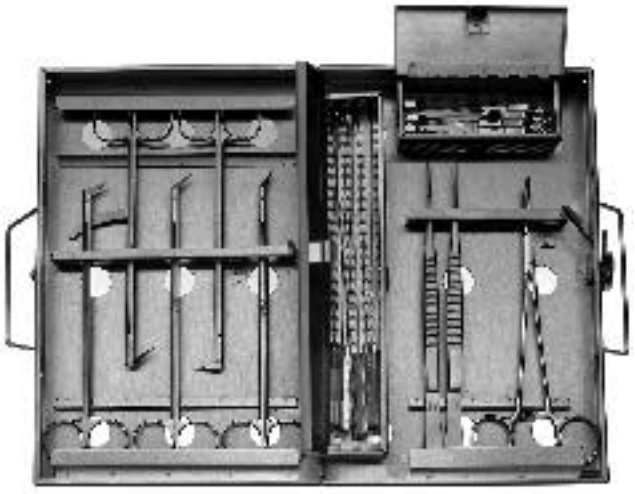


21-8011	HUANG Vein Holder, tapering tip. Holds vein during anastomosis in the aorta-to-coronary bypass graft procedure.		
	Tip width		1mm
	Maximum diameter	⅜″	(10mm)
	Length	7″	(178mm)

DIETHRICH BYPASS KIT

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)



IMA KIT

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.	I.M.A. Forceps, Straight, 7″
80-1852	2 ea.	I.M.A. Forceps, Bayonet, 8½″
80-1854	1 ea.	I.M.A. Scissors, Straight, 6″, 45° Blade
80-1855	1 ea.	I.M.A. Scissors, Bayonet, 7¼″, 45° Blade
80-1856	1 ea.	I.M.A. Scissors, Bayonet, 7½″, Reversed 45° Blade
36-3018	2 ea.	I.M.A. Needleholders, 6″
36-3019	2 ea.	I.M.A. Needleholders, 7″
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



KNIFE, STERNAL



40-8025	LEBSCHE Sternal Knife		
	Blade length	1¼″	(32mm)
	Length	9¾″	(248mm)

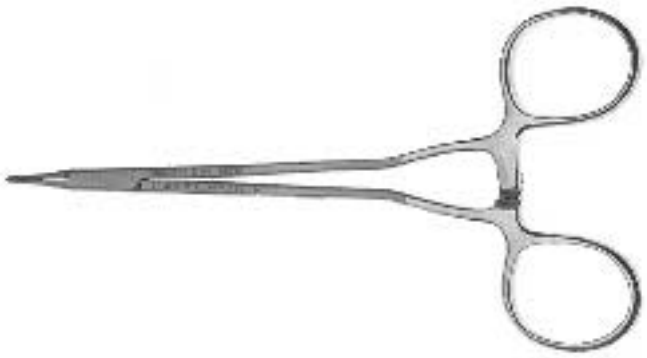
NEEDLE HOLDERS



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

NEEDLE HOLDERS

32-3680 COOLEY Needle Holder, serrated jaws, tungsten carbide insert
Length 8″ (20.3cm)

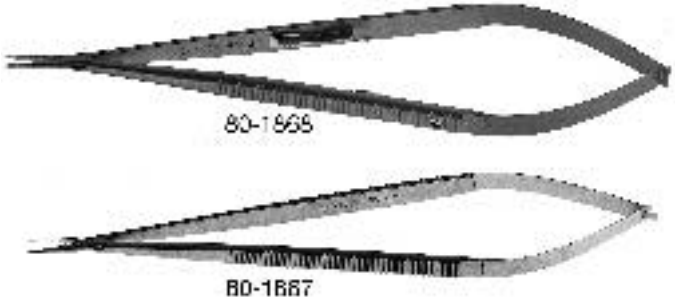


30-8002 COMBINATION Needle Holder and Forceps
Length 5½″ (140mm)



JACOBSON Needle Holders, titanium
Smooth jaws

	With catch	Length	
80-1866	Straight	7″	(178mm)
80-1868	Straight	8½″	(216mm)
	Without catch		
80-1867	Straight	7″	(178mm)
80-1869	Straight	8½″	(216mm)

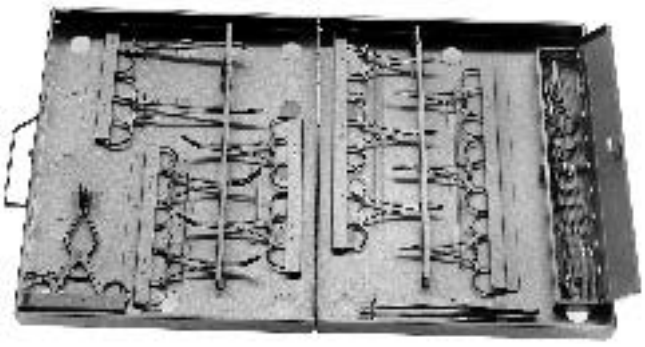


NEEDLES

45-8002 HEPARIN Flushing Needle, 18G.
Length 1⅞″ (48mm)



NOON A-V FISTULA KIT



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)

PUNCHES



	KARP Aortic Punches		
	Total Length	6⅛″	(156mm)
51-8000	Bite		(4mm)

PUNCHES



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

RASP



65-8005	ALEXANDER Coastal Periosteotomes, sharp, double-ended.		
	Elevator width	½″	(13mm)
	Stripper width	1″	(25mm)
	Length	8⅜″	(213mm)



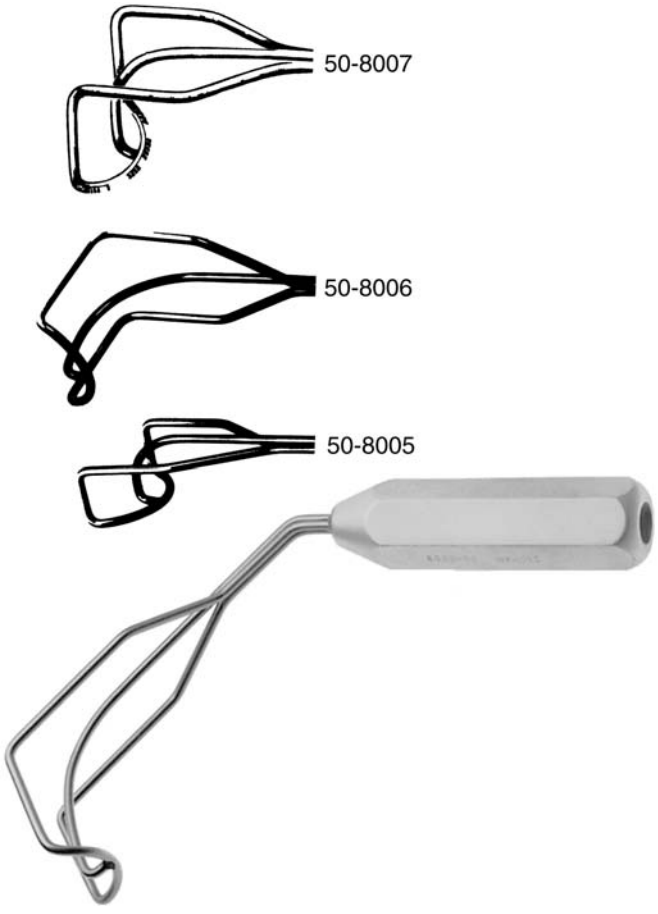
	DOYEN Rib Raspatories, sharp.		
	Blade Length	1⅛″	(30mm)
	Length	7″	(178mm)
52-8000	Left		
52-8001	Right		

RETRACTORS, AORTIC VALVE



	LIDDICOAT Aortic Valve Retractors		
	Length	7¾″	(197mm)
50-8011	Small		
	Blade width	⅜″	(10mm)
	Blade length	¾″	(18mm)
50-8012	Large		
	Blade width	¾″	(18mm)
	Blade length	1⅛″	(28mm)

RETRACTORS, ATRIAL



	COOLEY Atrial Retractors		
	Length	10″	(254mm)
50-8005	Left		
	Blade width	1¾″	(44mm)
	Blade depth	1″	(25mm)
50-8006	Right		
	Blade width	1¾″	(44mm)
	Blade depth	1¾″	(44mm)
50-8007	Modified with teeth		
	Blade width	1¾″	(44mm)
	Blade depth	1¾″	(44mm)

Codman

RETRACTORS, BOOKWALTER, KITS

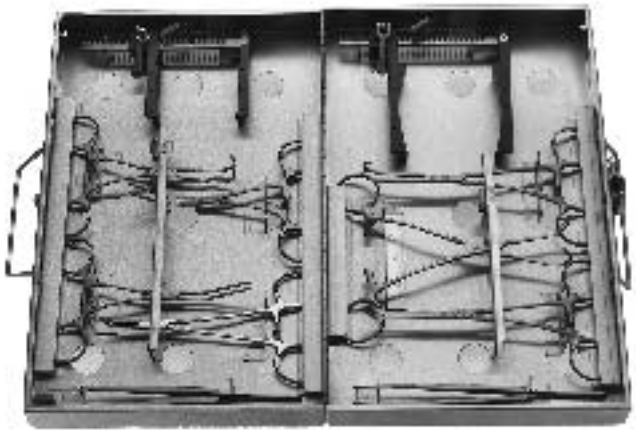
BOOKWALTER IMA Retractor kit provides the tools to elevate and retract the sternum for efficient dissection of the internal mammary artery.

50-4600	BOOKWALTER IMA Retractor Includes:		
50-4552	Horizontal Bar	1″ diameter 14¼″ length	(25mm) (360mm)
50-4554	Post Coupling	1″ diameter	(25mm)
50-4581	Table Post	1″ diameter	(25mm)
50-4601	IMA Cross Bar	12″ length	(300mm)
50-4602	IMA Ratchet Mechanism (2 each)		
50-4603	IMA Retractor Blade (2 each)	12″ length	(300mm)
50-4604	IMA Storage Case		

See the Bookwalter Section of this catalog for a complete listing of our Bookwalter Products



RETRACTORS, CARDIOVASCULAR

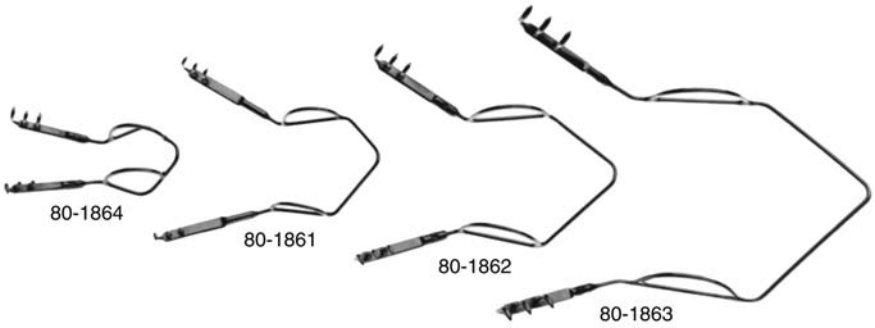


CODMAN CASTANEDA Kit is a group of instruments specifically designed for infant cardiovascular surgery.

30-9025	CASTANEDA Kit includes:		
	CASTANEDA Clamps		
	Length	5⅛″	(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	4⅝″	(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.

RETRACTORS, EPICARDIAL



	I.M.A. Epicardial Retractors Gold Coated		
	Size	Length	
80-1864	Mini	1″	(25mm)
80-1861	Small	1⅛″	(28mm)
80-1862	Medium	1½″	(38mm)
80-1863	Large	2⅛″	(54mm)

RETRACTORS, EPICARDIAL

37-4035	PARSONNET Epicardial Retractor, self retaining, light spring steel retractor with 3x3 sharp prongs.		
	Length	1 7/8″	(4.7cm)



RETRACTORS, GENERAL PURPOSE

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



	MURPHY Retractors		
	Three prong		
	Blade width	1/2″	(13mm)
	Blade depth	5/16″	(8mm)
	Length	7 3/4″	(197mm)
50-8071	Sharp		
	Four prong		
	Blade width	1 1/16″	(18mm)
	Blade depth	5/16″	(8mm)
	Length	7 3/4″	(197mm)
50-8072	Sharp		
50-8078	Blunt		
	Six prong		
	Blade width	1 1/8″	(29mm)
	Blade depth	5/16″	(8mm)
	Length	7 3/4″	(197mm)
50-8073	Sharp		
50-8079	Blunt		



RETRACTOR, LUNG



	ALLISON Lung Retractors		
50-8152	Small		
	Length	10½″	(260mm)
50-8153	Large		
	Length	12½″	(318mm)

RETRACTOR, PERIPHERAL VASCULAR



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)



	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)
50-8160	Left		
50-8161	Right		

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

RETRACTOR, PERIPHERAL VASCULAR

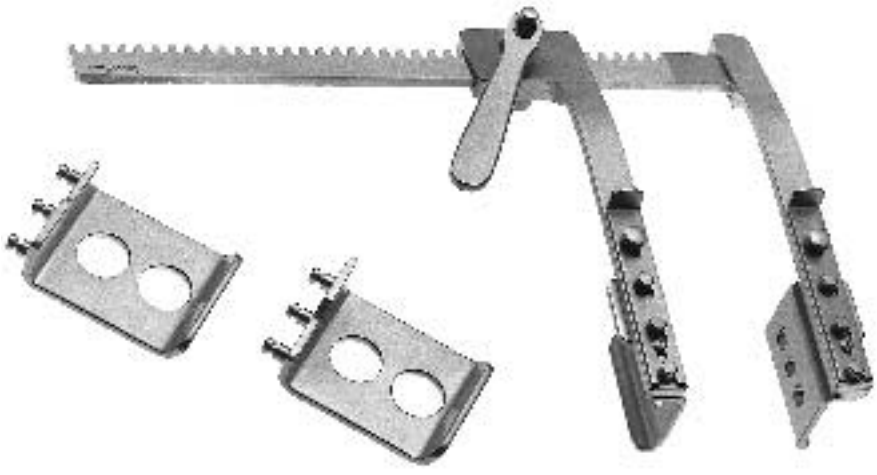
50-8015 GARRETT Multi-purpose Peripheral Vascular Retractor, self-retaining. Complete with three pairs of detachable blades.

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)





RETRACTOR, RIB



50-8031 BURFORD-FINOCHIETTO Rib Retractor, self-retaining with rack and pinion action, standard, curved arms with two sets of detachable blades.

Arm length	9¾″	(248mm)
Large blade width	2½″	(64mm)
Large blade depth	2⅘″	(71mm)
Small blade width	2½″	(64mm)
Small blade depth	1⅗″	(40mm)
Total opening	10″	(254mm)

RETRACTOR, RIB



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 5/8″	(41mm)
Large blade width	1 7/8″	(48mm)
Small blade width	1 5/8″	(41mm)
Small blade depth	1 3/8″	(35mm)
Total opening	6″	(152mm)



50-8033 BURFORD-FINOCHIETTO Rib Retractor, self-retaining with rack and pinion action. Two sets of detachable blades, curved arms.

Aluminum

Arm length	9 1/2″	(241mm)
Large blade width	2 1/2″	(64mm)
Large blade depth	2 5/8″	(67mm)
Small blade width	2 1/2″	(64mm)
Small blade depth	1 3/4″	(44mm)
Total opening	10″	(254mm)



	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	1 3⁄16″	(21mm)
	Total opening	2½″	(64mm)



50-8057	FINOCHIETTO Infant Rib Retractor-Contractor, self-retaining with rack and pinion action.		
	Arm length	3¼″	(83mm)
	Blade width	⅞″	(22mm)
	Blade depth	¾″	(19mm)
	Total opening	3½″	(89mm)



RETRACTOR, RIB



50-8040 HARKEN Rib Retractor, self-retaining with rack and pinion action. Complete with two fixed and two detachable scapular blades.

Arm length	9¾″	(248mm)
Fixed blade width	3″	(76mm)
Fixed blade depth	2″	(51mm)
Scapular blade width	2″	(51mm)
Scapular blade depth	1½″	(38mm)
Total opening	10″	(254mm)



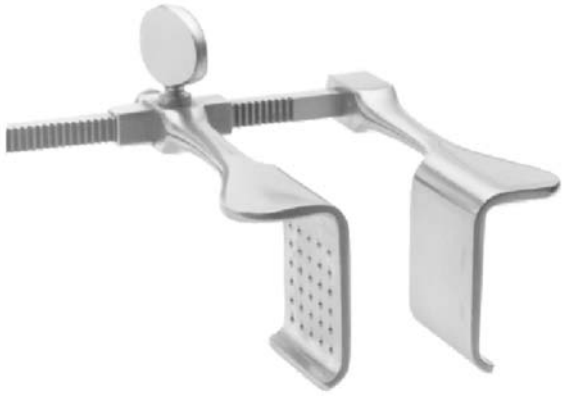
50-8028 HAIGHT-FINOCHIETTO Rib Retractor, self-retaining with rack and pinion action.

Arm length	3¼″	(83mm)
Blade width	1¼″	(32mm)
Blade depth	1 3/16″	(30mm)
Total opening	4″	(102mm)

RETRACTOR, RIB

	TUFFIER Rib Retractors, self-retaining.		
	Blade width	1¾″	(44mm)
	Blade depth	2″	(51mm)
	Total opening	6½″	(165mm)
50-8064	Serrated blades		
50-8065	Roughened blades		





RETRACTOR, SCAPULAR

	DAVIDSON Scapular Retractors		
50-8095	Blade width	2″	(51mm)
	Blade depth	3″	(76mm)
	Handle length	6″	(152mm)
50-8096	Blade width	3½″	(89mm)
	Blade depth	3″	(76mm)
	Handle length	6″	(152mm)



RETRACTOR, SELF-RETAINING



		Blade Length		Blade Width	
	HENLY Retractor				
32-3652	Complete Set, (3 Pair Side Blades, 4 Ctr Blades)				
32-3653	Body, Max Opening 80mm Handle Length 7″ (17.8cm)				
32-3654	Blade, CTR	5/8″	(1.6cm)	3/4″	(1.9cm)
32-3655	Blade, CTR	5/8″	(1.6cm)	1″	(2.5cm)
32-3656	Blade, CTR	5/8″	(1.6cm	1 1/4″	(3.2cm)
32-3657	Blade, L/R, Pair	1″	(2.5cm)	1″	(2.5cm)
32-3658	Blade, L/R, Pair	1″	(2.5cm)	2″	(5.1cm)
32-3659	Blade, L/R, Pair	7/8″	(2.2cm)	3″	(7.6cm)

RETRACTOR, STERNAL



	ANKENEY Sternal Retractor, aluminum, with stainless steel rack. Self-retaining with rack and pinion action. Complete with four fixed swivel blades.		
50-8068	Child size		
	Arm length	4 1/2″	(114mm)
	Total opening	5″	(127mm)
	Blade width	3/4″	(19mm)
	Blade depth	1″	(25mm)

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

50-8069 Adult size

Arm length	11½″	(292mm)
Spring length	3¼″	(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)



CASTANEDA Infant Sternal Retractor, with
aluminum arms.

50-8060 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	7⁄16″	(11mm)
Total opening	3½″	(89mm)



RETRACTOR, STERNAL



50-8080	COLLINS Sternal Retractor, self-retaining with rack and pinion action. Body only.		
	Arm length	8¾″	(222mm)
	Total opening	8⅛″	(206mm)



50-8081	COLLINS Radioparent Sternal Blades, plastic (nylon material), sterile, disposable. Two blades per package, 10 packages per case.		
	Blade width	3″	(76mm)
	Blade length	4¾″	(121mm)
	Blade depth	1½″	(38mm)

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)



RETRACTOR, STERNAL



MORSE Sternal Retractors, self-retaining with rack and pinion action.

50-8066	Child size		
	Arm length	6⅛″	(156mm)
	Blade width	¾″	(19mm)
	Blade depth	¾″	(19mm)
	Total opening	6¼″	(159mm)
50-8067	Adult size		
	Arm length	7½″	(191mm)
	Blade width	1⅛″	(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	1⅛″	(28mm)
Upper Blade depth	1⅛″	(28mm)
Lower Blade width	1⅛″	(28mm)
Lower Blade depth	¾″	(19mm)

The retractor is designed so that the rack and pinion and crank can be positioned toward the patient's head.

RETRACTORS, STERNOTOMY



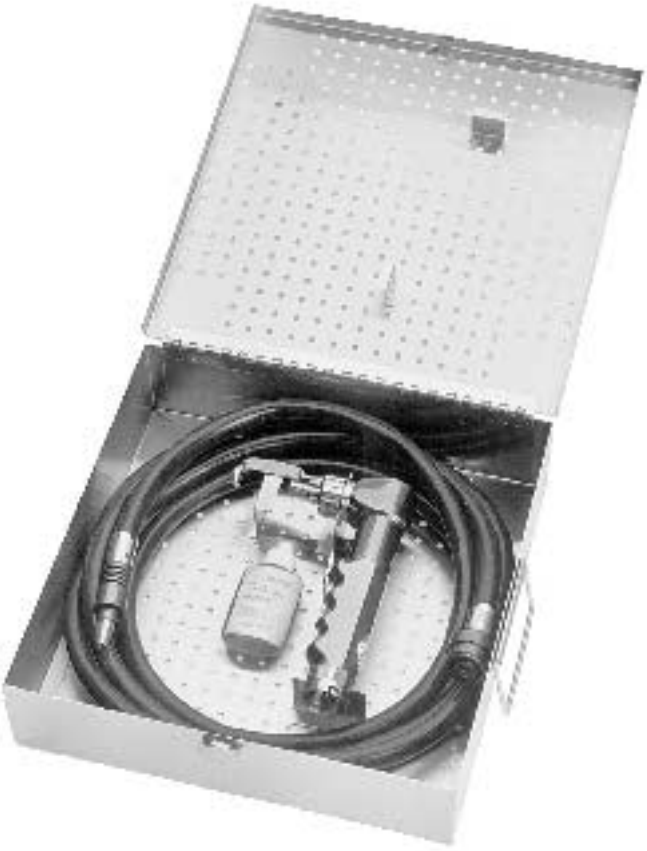
	COOLEY Retractor, Sternotomy		
		Dimensions	Length
32-3612	Pediatric	2.5cm × 7.9cm × 2.0cm	16cm
32-3613	Newborn	1.7cm × 7.0cm × 1.6cm	11cm

RONGEURS, RIB



56-8040	DALE First Rib Rongeur, double-action.		
	Bite	⅛″	3mm
	Length	14½″	(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



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



26-7004	CODMAN Sternum Saw Footplate

SAW, AIR POWERED, STERNUM

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

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



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)

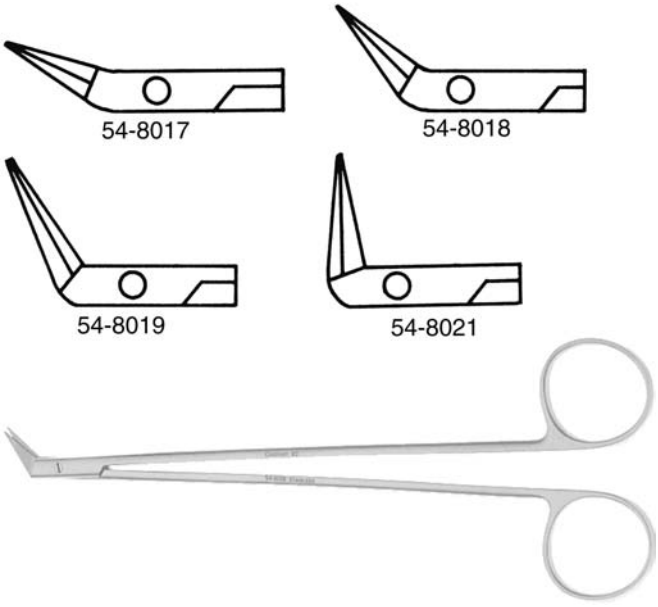


SCISSORS, CIRCUMFLEX ARTERY



54-8016	LAWRIE Modified Circumflex Scissors, without stabilizing bar, 130° angle.		
	Blade width	1/8″	(4mm)
	Blade length	1/2″	(13mm)
	Length	7″	(178mm)

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		

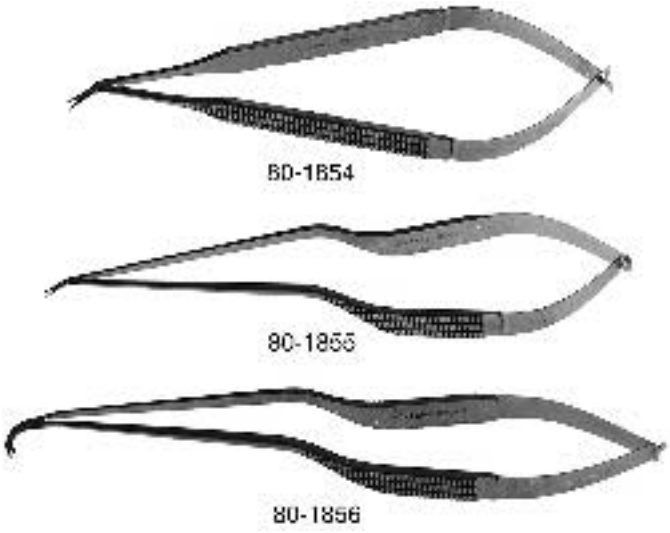


54-8010	FAVALORO Coronary Scissors, curved shank, 130° angle.		
	Blade width	1/8″	(4mm)
	Blade length	7/16″	(11mm)
	Length	6 3/4″	(171mm)

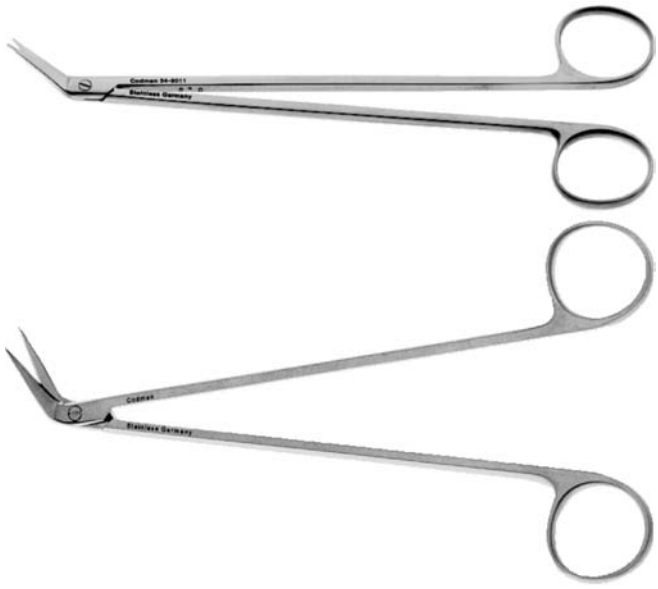
Codman

SCISSORS, CORONARY ARTERY

	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)



	REUL Coronary Artery Scissors		
	Length	7¼″	(184mm)
54-8011	45° angle		
	Blade width	¼″	(6mm)
	Blade length	1 3⁄16″	(21mm)
54-8014	60° angle		
	Blade width	⅛″	(3mm)
	Blade length	⅞″	(22mm)
54-8015	90° angle		
	Blade width	3⁄16″	(5mm)
	Blade length	¾″	(19mm)



SCISSORS, DISSECTING



32-3578	JORGENSON Dissecting Scissor, Curved		
	Length	8½″	(21.6cm)



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



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



	POTTS-SMITH Dissecting Scissor, Curved	
	Length	
32-3588	11¼″	(28.6cm)
32-3589	9″	(22.9cm)
32-3590	7½″	(19.1cm)
32-3591	5½″	(14cm)

SCISSORS, DISSECTING

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



32-3582 SATINSKY Scissor, Full Curved
Length 9¾″ (24.8cm)



SCISSORS, ENDARTERECTOMY

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

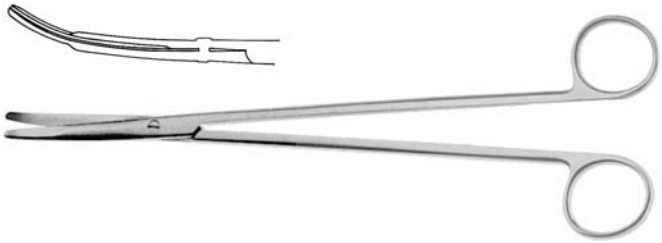


SCISSORS, SUTURE

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



SCISSORS, TISSUE

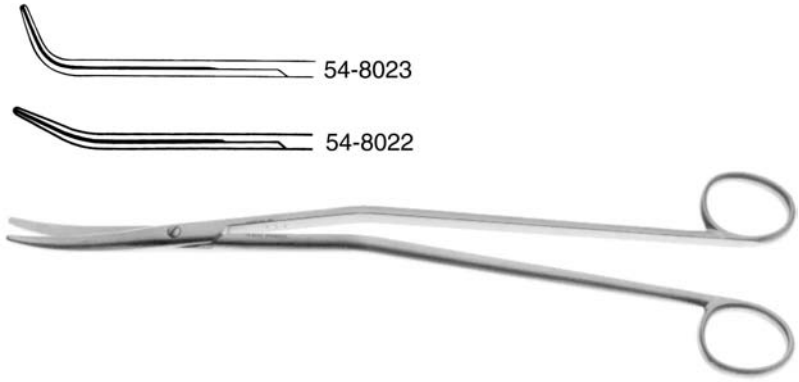


54-8024	CALCIFIED Tissue Scissors, serrated blades, curved.		
	Length	9″	(229mm)

SCISSORS, VALVE



	DIETHRICH Valve Scissors, serrated blades.		
	Length	9″	(229mm)
54-8005	Slight curve		
54-8006	Full curve		



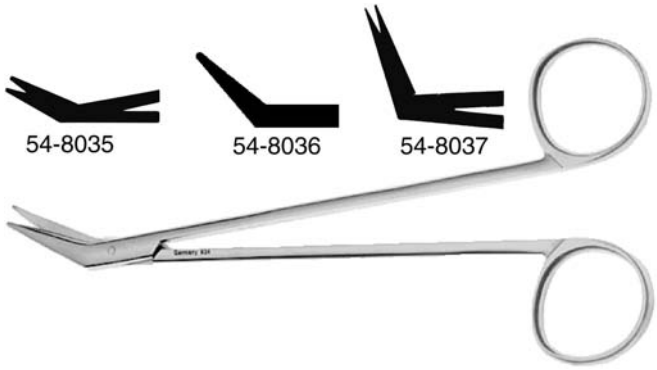
	LITWAK Mitral Valve Scissors, angled on side.		
	Length	11″	(279mm)
54-8022	Lesser curve		
54-8023	Full curve		

	COOLEY Cardiovascular Scissor	Length	
32-3579	Curved	7½″	(19.1cm)
32-3580	Curved	9″	(22.9cm)
32-3581	45° Angle	7¼″	(18.4cm)

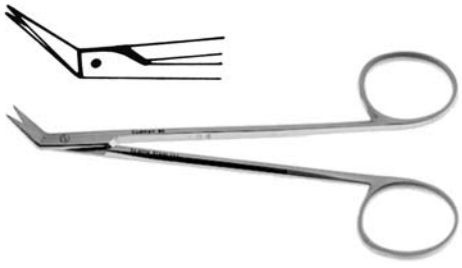




	DeBAKEY Vascular Scissors		
	Blade width	¼″	(6mm)
	Blade length	⅞″	(22mm)
	Length	6½″	(165mm)
54-8035	25° angle		
54-8036	45° angle		
54-8037	60° angle		



54-8008	FINE Vascular Scissors, 45° angle.		
	Blade width	3⁄16″	(5mm)
	Blade length	½″	(13mm)
	Length	5¼″	(133mm)



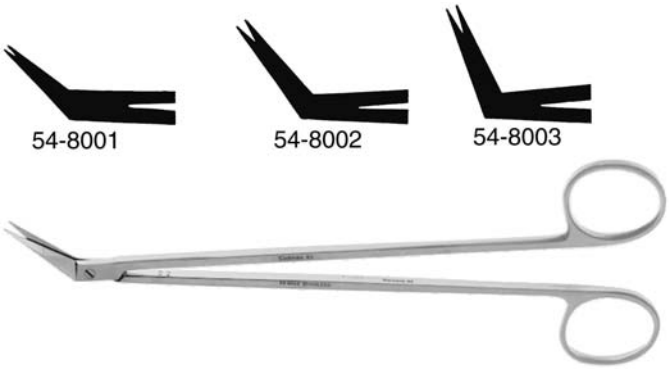
SCISSORS, VASCULAR



54-8004	MATTOX-POTTS Scissors, 45° angle.		
	Blade width	¼″	(6mm)
	Blade length	1 3/16″	(21mm)
	Length	5½″	(140mm)



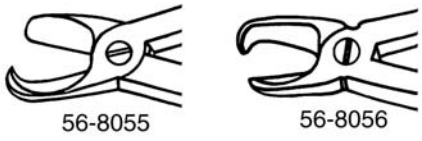
	POTTS-SMITH Scissor, 45° Angle, Short		
	Tip	Length	
32-3583	1.3cm	5.25″	(13.3cm)
32-3584	1.9cm	5.75″	(14.6cm)



	POTTS-SMITH Scissors		
	Blade width	¼″	(6mm)
	Blade length	7/8″	(22mm)
	Length	7½″	(191mm)
54-8001	25° angle		
54-8002	45° angle		
54-8003	60° angle		



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





	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)

STRIPPER, RIB



63-8025 MATSON Rib Stripper and Elevator, sharp, double-ended.

Elevator width	5/8″	(16mm)
Stripper width	1 3/8″	(35mm)
Length	8 5/8″	(219mm)

SUCTION, TUBES



70-8035 COOLEY Graft Suction Tube, open end, small side opening.

Distal tip diameter	5/16″	(8mm)
Length	12″	(305mm)



70-8038 COOLEY Left Ventricular Sump Suction Tube, perforated tip, 30° angle.

Diameter	5/16″	(8mm)
Length	11 3/8″	(289mm)

SUCTION, TUBES



67-7677	COOLEY OPTI-LENGTH Left Ventricular Sump, Perforated, 45°		
	Tip Width	5/16	
	Length	19¾″	(50.2cm)



70-8036	COOLEY Vascular Suction Tube, round perforated end.		
	Diameter	¼″	(6mm)
	Length	11½″	(292mm)



70-8040	METHODIST Vascular Suction Tube		
	Diameter	⅜″	(10mm)
	Length	10″	(254mm)

Replacement tips may be ordered through the Repair Department.



	PACIFICO Suction Tubes			
	Diameter tapers		11-8 Fr.	
70-8048	Long	Length	7½″	(191mm)

TOURNIQUETS



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

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.

TUNNELERS



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



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)

TUNNELERS

80-8008 DOSICK Bellows Assembly



80-8002 JACKSON Tunneler, includes bullet tip, two way stopcock and irrigating cannula tip.
Length 16 13/16″ (427mm)



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



See 80-8010 NOON A-V Fistula Kit.

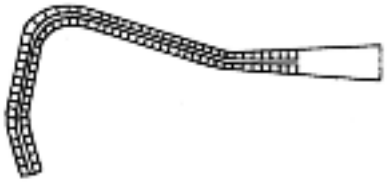
TWISTER, WIRE



73-4005 OCHSNER Wire Twister, with tungsten carbide jaw inserts, threaded shaft for rotation.
Extended length 10 1/2″ (267mm)

CLAMP TIP DETAIL

37-1225 Anastomosis Clamp



37-1272 Beck Aorta Mini Clamp



30-9000 Castaneda Multi-Purpose Clamp, 30°



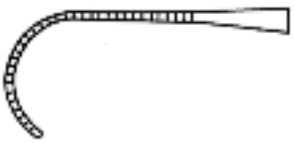
30-9001 Castaneda Multi-Purpose Clamp, 50°



30-9002 Castaneda Spoon Clamp



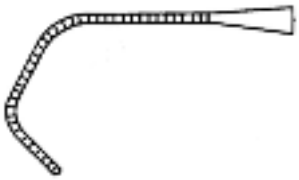
30-9003 Castaneda Anastomosis Clamp, 1.5cm



30-9004 Castaneda Anastomosis Clamp, 1.8cm



30-9005 Castaneda Anastomosis Clamp, 2.2cm



30-9006 Castaneda Multi-Purpose Clamp, 90°



30-9011 Castaneda Multi-Purpose Clamp, straight



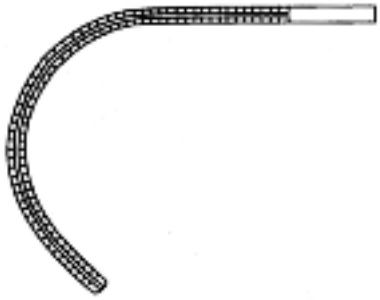
37-1210 Cooley Anastomosis Clamp



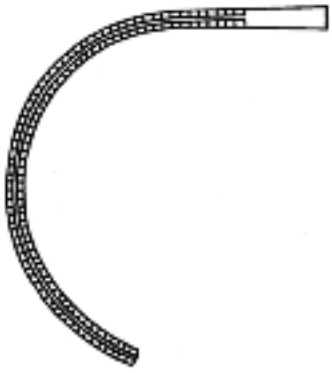
37-1400 Cooley Aorta Clamp, 10 ½”



37-1310 Cooley Clamp, acute curved, medium



37-1311 Cooley Clamp, acute curved, large



37-1260 Cooley Coarct Clamp, straight



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



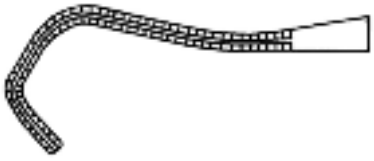
37-1262 Cooley Coarct Clamp, curved



37-1263 Cooley Coarct Clamp, spoon



37-1300 Cooley-Derra Clamp, small



37-1301 Cooley-Derra Clamp, medium



37-1302 Cooley-Derra Clamp, large



37-1251 Cooley Ductus Clamp, angled



37-1250 Cooley Ductus Clamp, straight



CLAMP TIP DETAIL

37-1401 Cooley Iliac Clamp, 10”



37-1402 Cooley Iliac Clamp, 8 ½”



37-1230 Cooley Modified Anastomosis Clamp



37-1290 Cooley Multi-Purpose Clamp, 30°



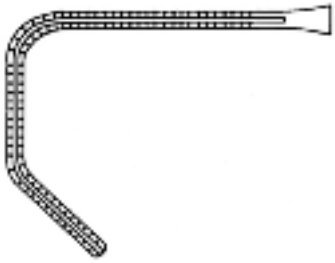
37-1291 Cooley Multi-Purpose Clamp, 60°



37-1292 Cooley Multi-Purpose Clamp, 90°



37-1280 Cooley Pediatric Clamp, 90°, small



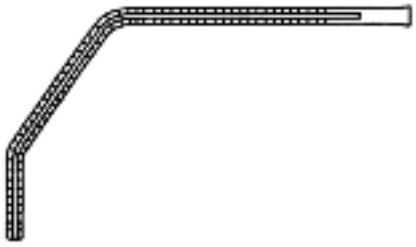
37-1281 Cooley Pediatric Clamp, 90°, large



37-1282 Cooley Pediatric Clamp, 60°, small



37-1283 Cooley Pediatric Clamp, 60°, large



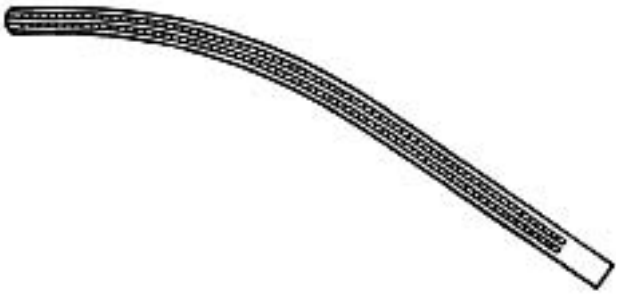
19-8104 Crafoord Coarct Clamp



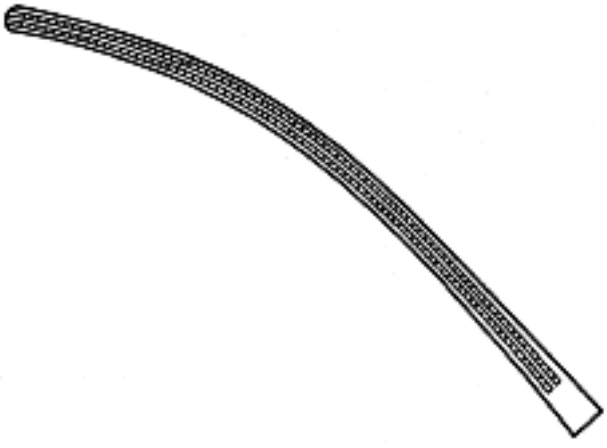
37-1110 DeBakey Angle Vascular Clamp, straight



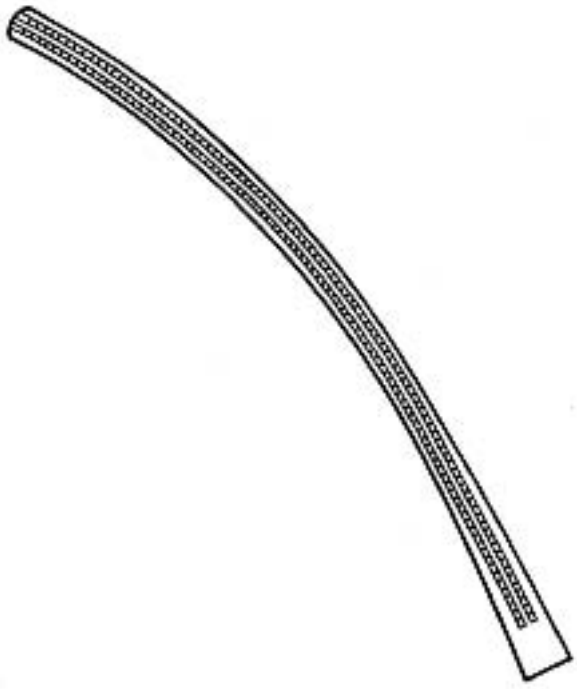
37-1140 DeBakey Aneurysm Clamp, 9 ½



37-1141 DeBakey Aneurysm Clamp, 10 ½

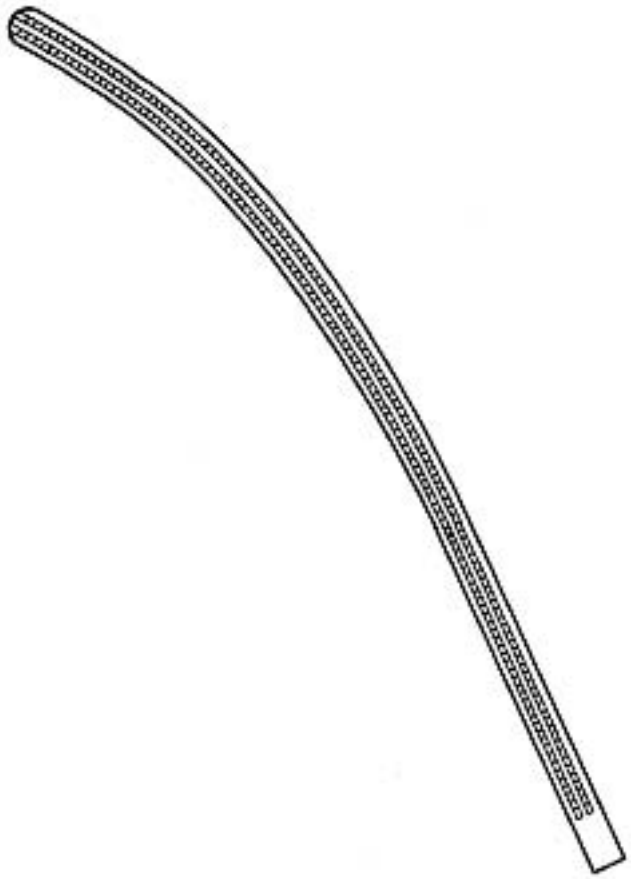


37-1142 DeBakey Aneurysm Clamp, 12

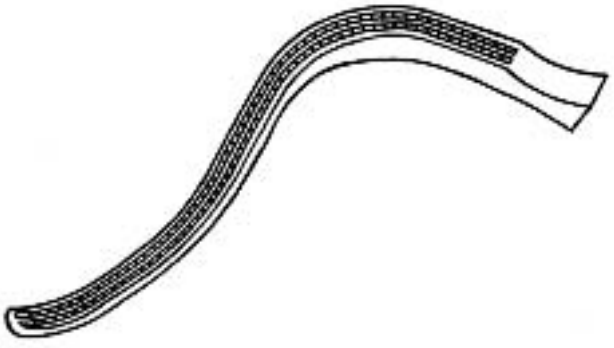


CLAMP TIP DETAIL

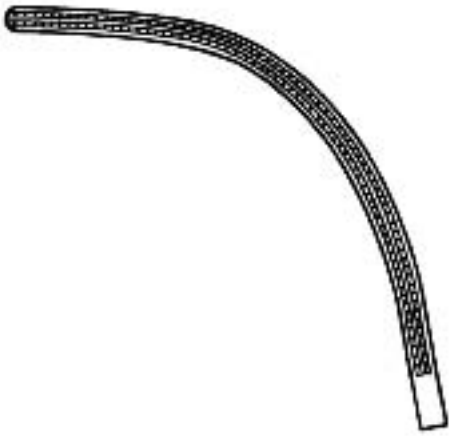
37-1143 DeBakey Aneurysm Clamp, 12 ½



37-1165 DeBakey Aorta Clamp



37-1120 DeBakey Aorta Exclusion Clamp



37-1070 DeBakey Bulldog Ring, straight



37-1071 DeBakey Bulldog Ring, curved



37-1072 DeBakey Bulldog Ring, 45°



37-1073 DeBakey Bulldog Ring, 90°



37-1074 DeBakey Bulldog Ring, small



CLAMP TIP DETAIL

37-1150 DeBakey Coarct Clamp, straight



37-1151 DeBakey Coarct Clamp, angled



37-1160 DeBakey Ductus Clamp, straight



37-1161 DeBakey Ductus Clamp, angled



37-1320 DeBakey Multi-Purpose Clamp, 30°



37-1322 DeBakey Multi-Purpose Clamp, 90°



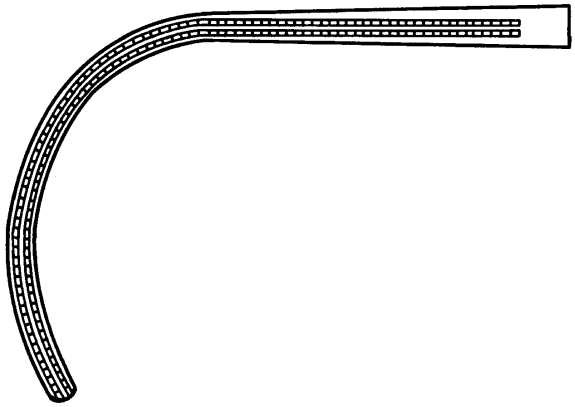
37-1321 DeBakey Multi-Purpose Clamp, 60°



37-1170 DeBakey Multi-Purpose Clamp, 60°, 9 ½



37-1132 DeBakey-Semb Clamp



37-1190 DeBakey Tangential Occlusion Clamp, #1



37-1191 DeBakey Tangential Occlusion Clamp, #2



37-1192 DeBakey Tangential Occlusion Clamp, #3



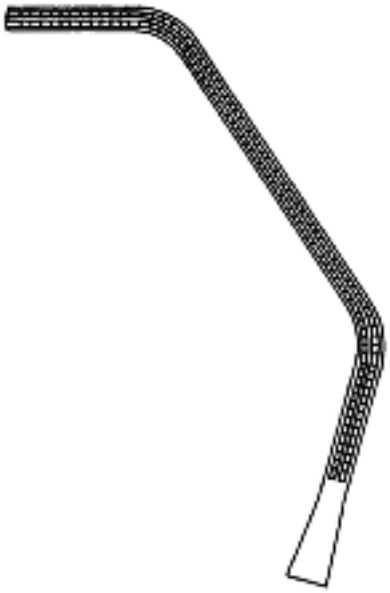
CARDIO-VASCULAR THORACIC

CLAMP TIP DETAIL

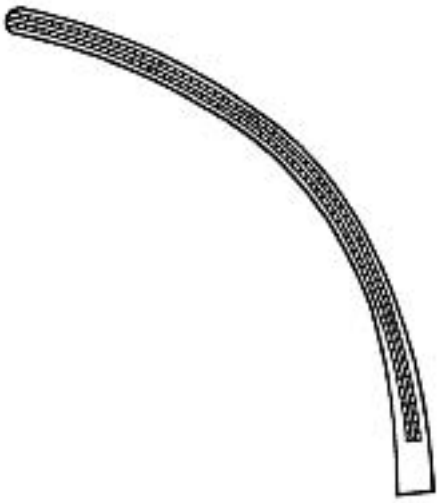
37-1193 DeBakey Tangential Occlusion Clamp, #4



37-1194 DeBakey Tangential Occlusion Clamp, #5



37-1115 DeBakey Vascular Clamp, s shape



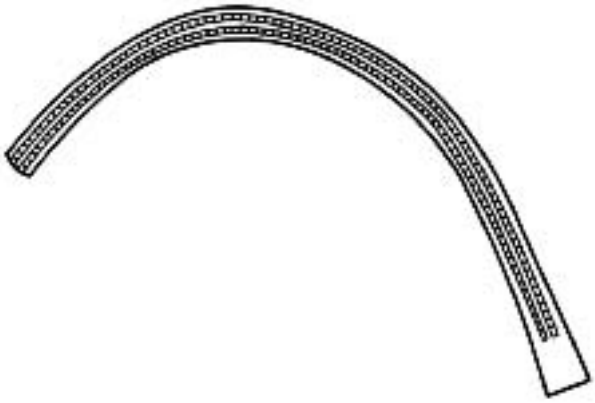
37-1125 DeBakey Vascular Clamp, curved



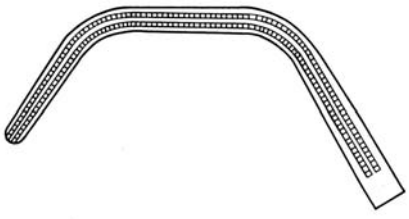
37-1130 DeBakey Vascular Clamp, acute curved



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

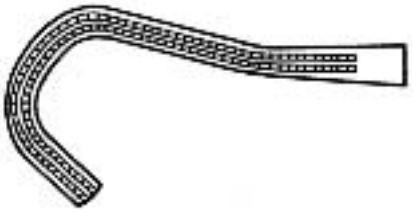


37-1015 Diethrich Aorta Clamp

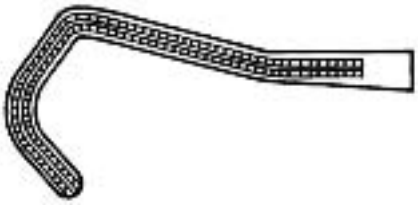


CLAMP TIP DETAIL

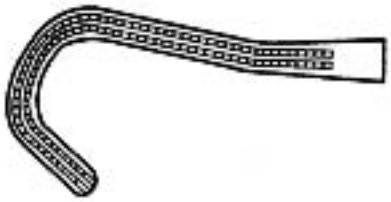
37-1220 Derra Anastomosis Clamp, small



37-1221 Derra Anastomosis Clamp, medium



37-1222 Derra Anastomosis Clamp, large



37-1085 Glover Ductus Clamp, straight



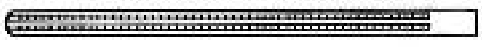
37-1086 Glover Ductus Clamp, angled



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

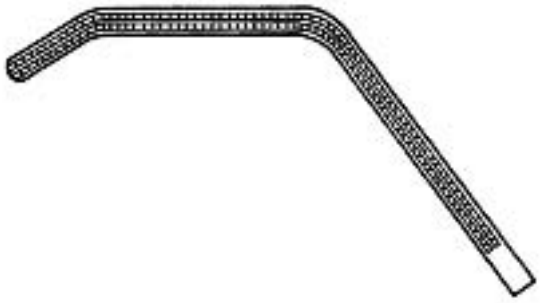


37-1101 Glover Spoon Clamp, x-long



CLAMP TIP DETAIL

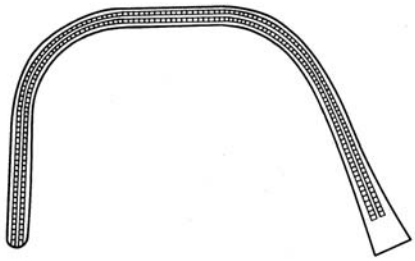
37-1105 Glover Appendage Clamp



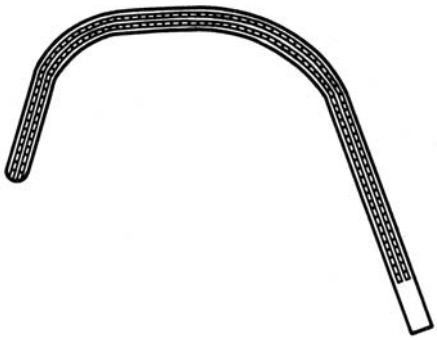
37-1275 Henly Modified Vascular Clamp



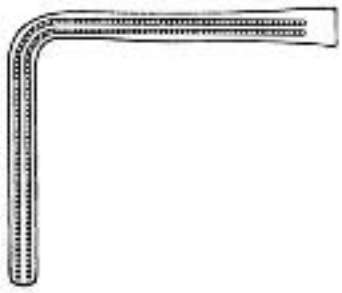
37-1020 Key Aorta Clamp



37-1025 Lambert-Kay Aorta Clamp



37-1030 Lees Right-Angle Clamp



37-1035 Lees Bronchus Clamp



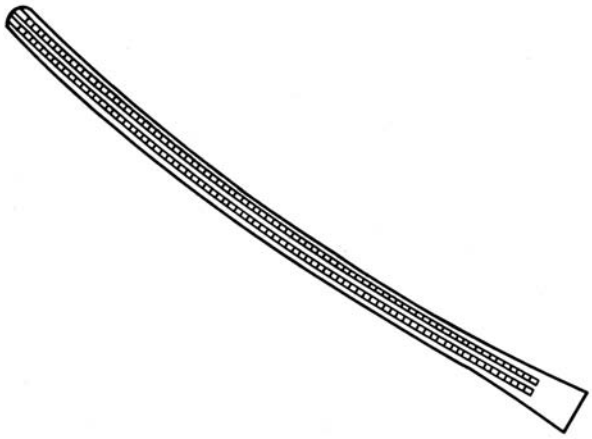
37-1080 L Jones Vascular Clamp, 15°



37-1081 L Jones Vascular Clamp, 30°



37-1021 Mattox Aorta Clamp



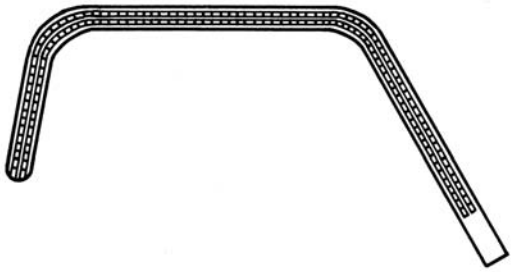
37-1700 Morris Aorta Clamp, 8”



37-1701 Morris Aorta Clamp, 10”



37-1026 Ochsner Aorta Clamp



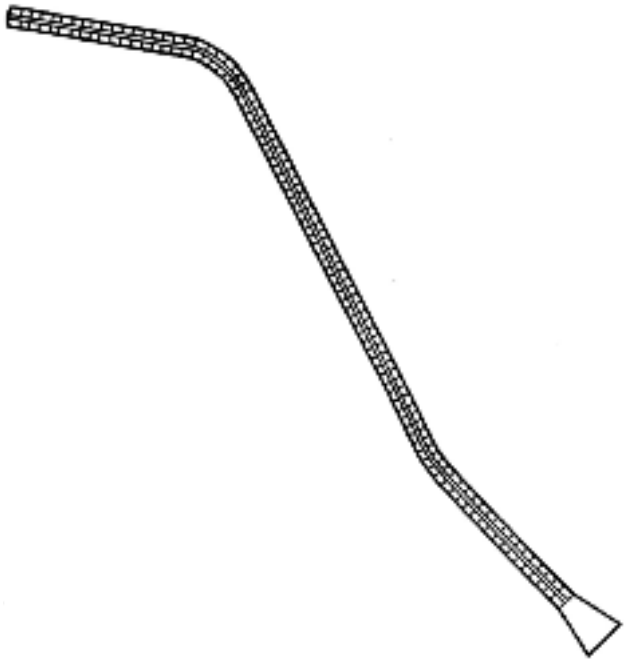
37-1241 Renal Artery Clamp, 19.5cm



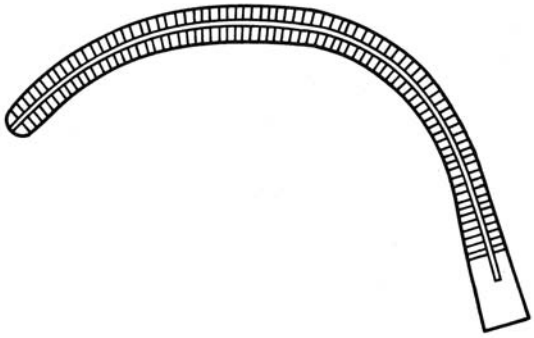
37-1240 Renal Artery Clamp, 18.5cm



37-1242 Renal Artery Clamp, 27.0cm



37-1024 Reul Aorta Clamp



CLAMP TIP DETAIL

37-1323 Reynolds Clamp, 50°, small jaw



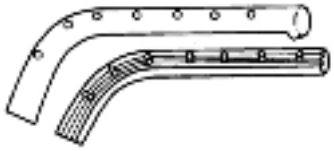
37-1324 Reynolds Clamp, 50°, large jaw



37-1326 Reynolds Clamp, 85°, small jaw



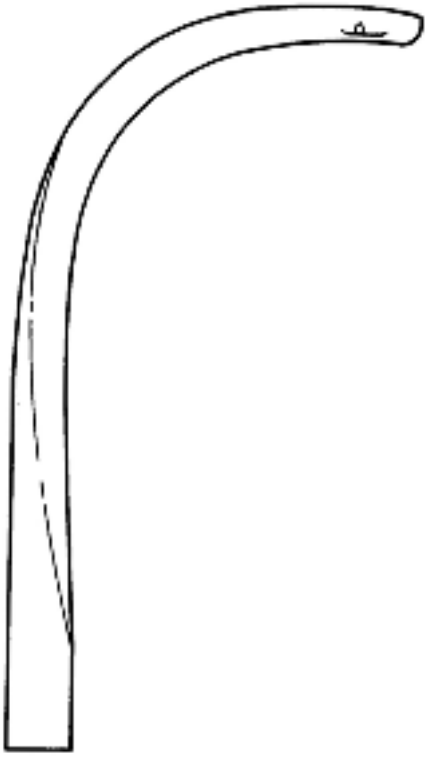
19-8167 Sarot Bronchus Clamp, left



19-8168 Sarot Bronchus Clamp, right



30-8056 Semb Forceps, acute curve



37-1200 Satinsky Vena Cava Clamp, large



37-1201 Satinsky Vena Cava Clamp, medium

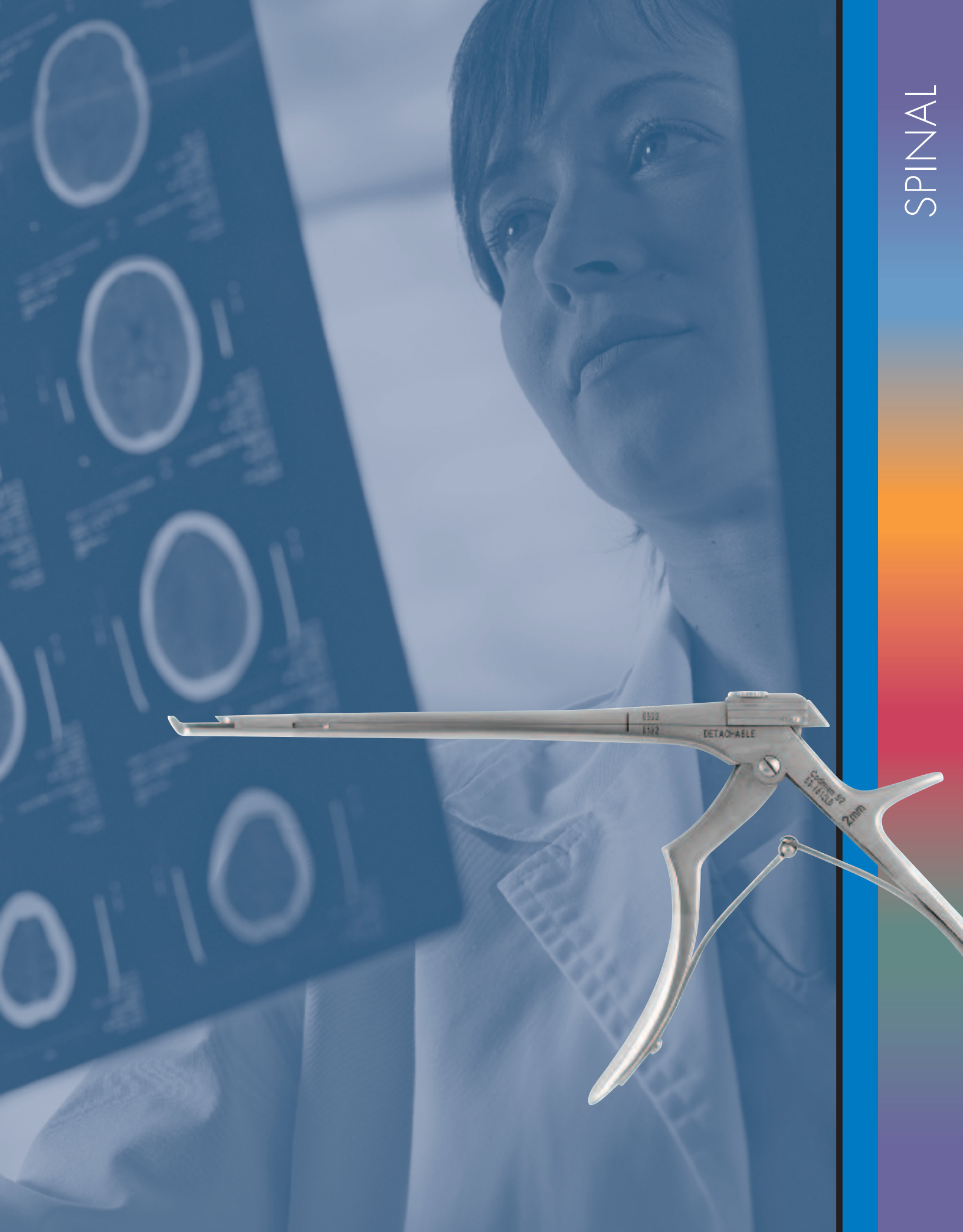


37-1202 Satinsky Vena Cava Clamp, small



37-1273 Subra Mini Aorta Clamp

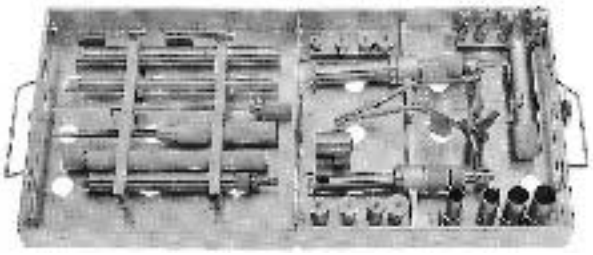




SPINAL

METRIC
INCHES
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

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
12-1005C	Small
12-1006C	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
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
50-1224CO	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

ANTERIOR CERVICAL FUSION KIT, COMPONENTS



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.		
	Length	4 1/16″	(103mm)
12-1005C	Small Diameter	13mm	
12-1006C	Large Diameter	16mm	



11-1002	CODMAN Cross Bar Handle Inside diameter	7/8″	(22mm)

ANTERIOR CERVICAL FUSION KIT, COMPONENTS

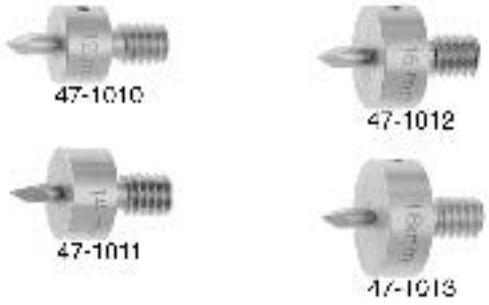
39-1012	CODMAN Depth Gauge Length 8⅜″ (213mm)	



	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



SPINAL

ANTERIOR CERVICAL FUSION KIT, COMPONENTS



11-1019 CODMAN Dowel Cutter Shaft
Length 6½″ (165mm)



80-1001 CODMAN Dowel Ejector
Length 4½″ (114mm)



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



12-1007 CODMAN Drill Guard Cap
Length 1¼″ (32mm)
Diameter 1″ (25mm)



CODMAN Drill Shafts, with depth stop.
Length 5⁹⁄₁₆″ (141mm)
28-1001 Small (to hold 26-1265 or 26-1266)
Diameter 13mm
28-1002 Large (to hold 26-1267 or 26-1268)
Diameter 16mm



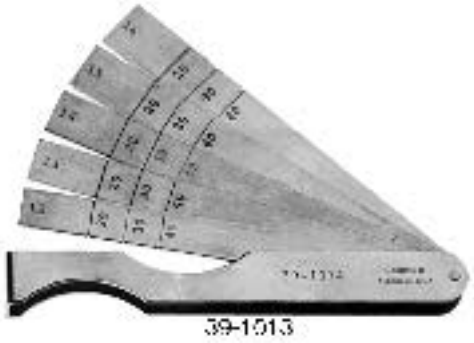
CODMAN Guard Guides, double ended.
Length 7½″ (190mm)
14-1043 Diameter ⅜″ (9.5mm)
14-1044 Diameter ½″ (13mm)

ANTERIOR CERVICAL FUSION KIT, COMPONENTS

65-1064	CODMAN Osteophyte Periosteal Elevator		
	Length	8″	(203mm)



39-1013	CODMAN Spanner Gauge, small.		
	Length	5⅛″	(130mm)
	Width		(7mm)
			(8mm)
			(9mm)
			(10mm)
			(11mm)
39-1014	CODMAN Spanner Gauge, large.		
	Length	5⅛″	(130mm)
	Width		(12mm)
			(13mm)
			(14mm)
			(15mm)
			(16mm)



80-1012	CODMAN Spanner Wrench		



61-1004	CODMAN Vertebra Spreader #1, with ratchet.		
	Total length	5″	(127mm)
	Total opening	¾″	(19mm)
61-1005	CODMAN Vertebra Spreader #2, with ratchet.		
	Total length	3″	(76mm)
	Total opening	1½″	(38mm)





SPINAL

BIOPSY SET, VERTEBRAL



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 demonstate 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

CASES, GOUGES & OSTEOTOME



21-2500 CODMAN Gouge and Osteotome Case, holds seven SMITH-PETERSEN gouges or osteotomes.

Length	9″	(229mm)
Width	6⅞″	(175mm)
Depth	2¼″	(57mm)

Codman

CASES, GOUGES & OSTEOTOME

21-1020 CODMAN Sterilizing and Carrying Case. Holds eight assorted 11″ (279mm) gouges or osteotomes.

Length	11″¾″	(298mm)
Width	8⅞″	(225mm)
Depth (on each side)	1¼″	(32mm)



CHISELS



18-1011 CODMAN Spinal Fusion Chisel, straight.

Blade width	15⁄64″	(6mm)
Length	9½″	(241mm)

CODMAN Puka (Hole) Chisel

Length	9″	(229mm)
Tip width	.4″	(10mm)

18-1014 No. 1
18-1015 No. 2



11-1040 CODMAN Puka Chisel Handle

Length	4″	(102mm)



SPINAL

CHISELS



18-1020	CODMAN-HARMON Chisel		
	Blade width	15⁄64″	(6mm)
	Length	9¾″	(248mm)



67-7018	CODMAN OPTI-LENGTH Chisel, Straight, Stiletto		
	Length	9½″	(24.1cm)
	Tip Width	¾″	

67-7001	CODMAN OPTI-LENGTH Spinal Fusion Chisel, Straight		
	Length	10½″	(26.7cm)
	Tip width	15⁄64″	(6mm)

67-7003	CODMAN OPTI-LENGTH PUKA-HOLE Chisel, No. 2		
	Length	11″	(27.9cm)
	Tip width	.4″	

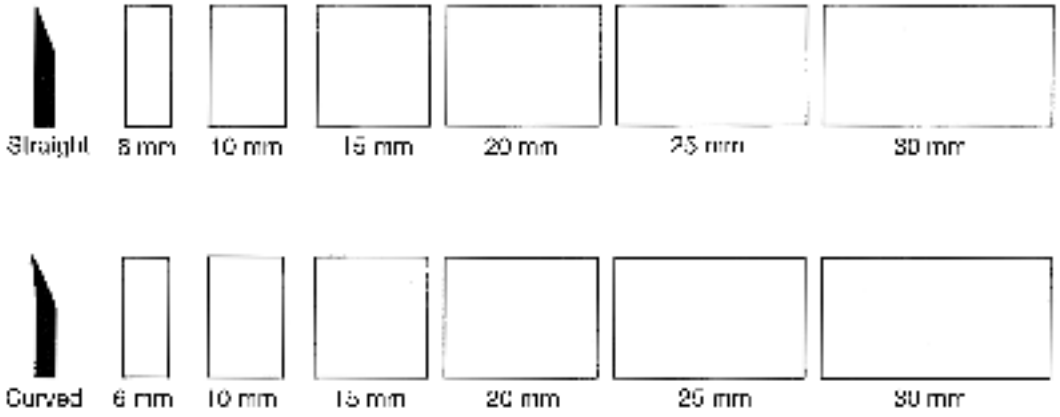


18-1010	D'ERRICO Lamina Chisel		
	Width	½″	(13mm)
	Length	7½″	(191mm)

KARLIN™ MAGNUM Chisels,
Black-handles, designed for use with a surgical mallet.

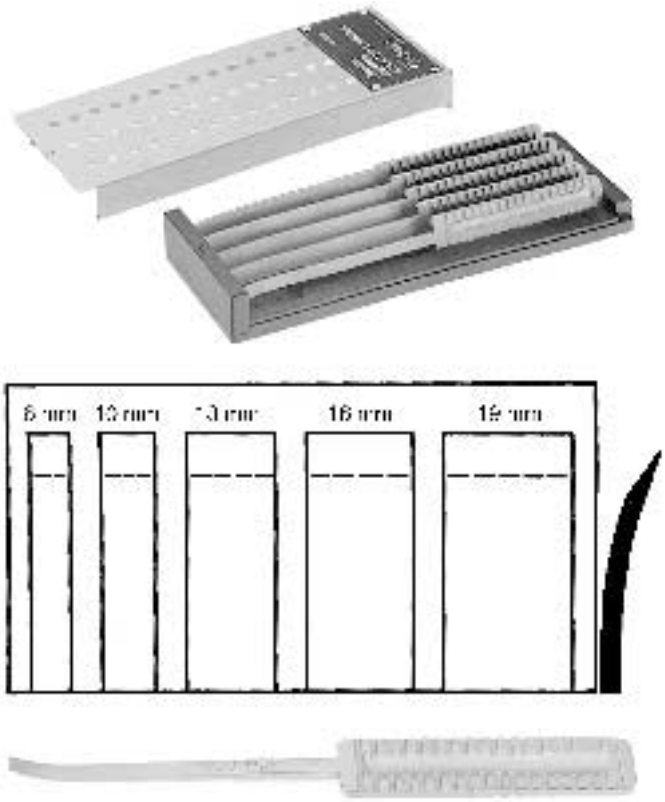
	Length	10.75″	(273mm)
	Handle diameter	1.25″	(32mm)
	Straight		
46-3100	Set of six with case		
	Includes:		
46-3101	6mm		
46-3102	10mm		
46-3103	15mm		
46-3104	20mm		
46-3105	25mm		
46-3106	30mm		
46-3107	Magnum instrument case for 6		
	Curved		
46-3110	Set of six with case		
	Includes:		
46-3111	6mm		
46-3112	10mm		
46-3113	15mm		
46-3114	20mm		
46-3115	25mm		
46-3116	30mm		
46-3107	Magnum instrument case for 6		



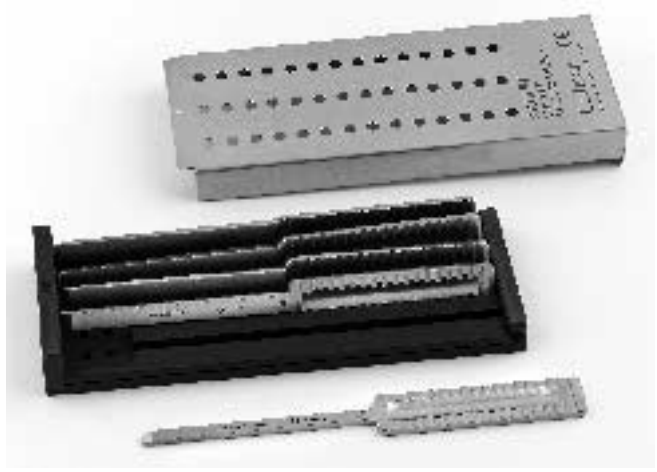


SPINAL

CHISELS



46-3080	KARLIN 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		



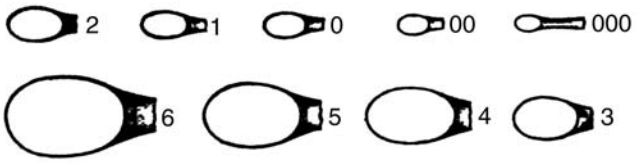
46-3070	KARLIN Straight Stiletto Chisel Set with Case		
	Length	8½″	(216mm)
	Set Includes:		
		Tip Size	
46-3071	Chisel Straight	¼″	(6mm)
46-3072	Chisel Straight	⅜″	(10mm)
46-3073	Chisel Straight	½″	(13mm)
46-3074	Chisel Straight	⅝″	(16mm)
46-3075	Chisel Straight	¾″	(19mm)
46-3076	Case for Straight Stiletto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

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 shank	7⅛″	(18.1cm)



CURETTES



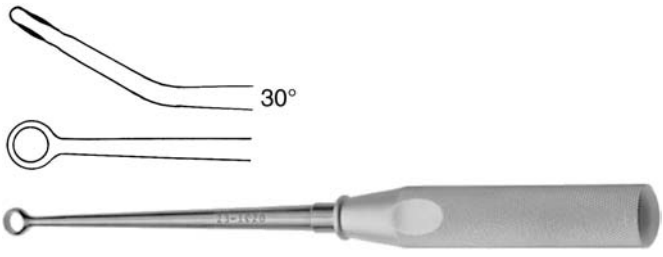
Full Size



	COBB Spinal Curettes		
	Length	11″	(279mm)
		Tip size	
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	

SPINAL

	CODMAN-CONE Ring Curettes		
23-1020C	Angled 5°		
	Ring diameter (I.D.)	5⁄16″	(8mm)
	Total length	9″	(229mm)
23-1021C	Angled 30°		
	Ring diameter (I.D.)	5⁄16″	(8mm)
	Total length	9″	(229mm)



CURETTES



	CONE Ring Curettes		
	Length	9″	(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)



	BRUNS Curette, hexagonal handle		
	Length	9″	(22.9cm)
	Size	Cup	
32-3400	000	3.2mm	
32-3401	00	3.4mm	
32-3402	0	3.7mm	
32-3403	1	4.7mm	
32-3404	2	5.7mm	
32-3405	3	7.0mm	
32-3406	4	8.4mm	
32-3407	5	8.9mm	
32-3408	6	10.2mm	

BRUNS, Curette, hollow handle

	Length	9″	(22.9cm)
	Straight		
32-3470	0000	3mm	
32-3471	000	3.2mm	
32-3742	00	3.4mm	
32-3473	0	3.7mm	
32-3474	1	4.7mm	
32-3475	2	5.7mm	
32-3476	3	7.0mm	
32-3477	4	8.4mm	
32-3478	5	8.9mm	
32-3479	6	10.2mm	



	Forward Angle	
32-3480	0000	0. 3cm
32-3481	000	3.3mm
32-4282	00	3.9mm
32-4283	0	4.5mm
32-3484	1	5.3mm
32-3485	2	6.0mm
32-3486	3	7.2mm
32-3487	4	8.2mm
32-3488	5	9.8mm
32-3489	6	12.5mm



	Reverse Angle	
32-3490	0000	3mm
32-3491	000	3.2mm
32-3492	00	3.4mm
32-3493	0	3.7mm
32-3494	1	4.7mm
32-3495	2	5.7mm
32-3496	3	7.0mm
32-3497	4	8.4mm
32-3498	5	8.9mm
32-3499	6	10.2mm



CASPAR Curette, square handle, reverse angle

	Length	9¾″	(25cm)
32-3410	Tip Size	4mm	
32-3411	Tip Size	5mm	



EPSTEIN Curettes

	Length	8″	(203mm)
23-1130C	No. 000	2.0mm	
23-1131C	No. 00	2.5mm	
23-1132C	No. 0	3.0mm	



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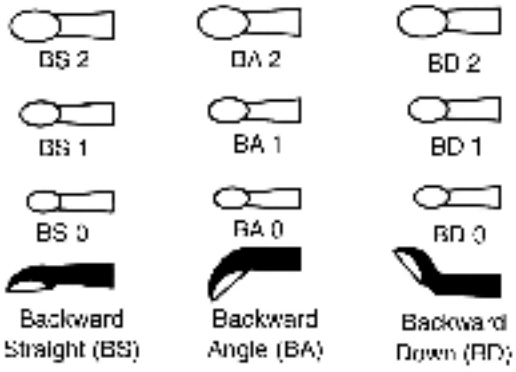
CURETTES

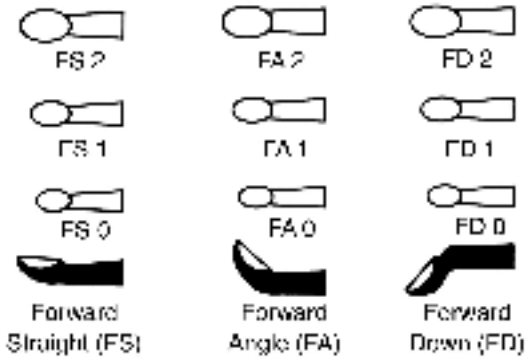




KARLIN Lumbar Microdiscectomy Instruments offset, black handles, tip configuration marked on handle.
Length 9½″ (24.13cm)

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





Codman

KARLIN Cervical Microdiscectomy Instruments
Offset, blade handles, tip configuration marked on handle
Length 8½″ (21cm)

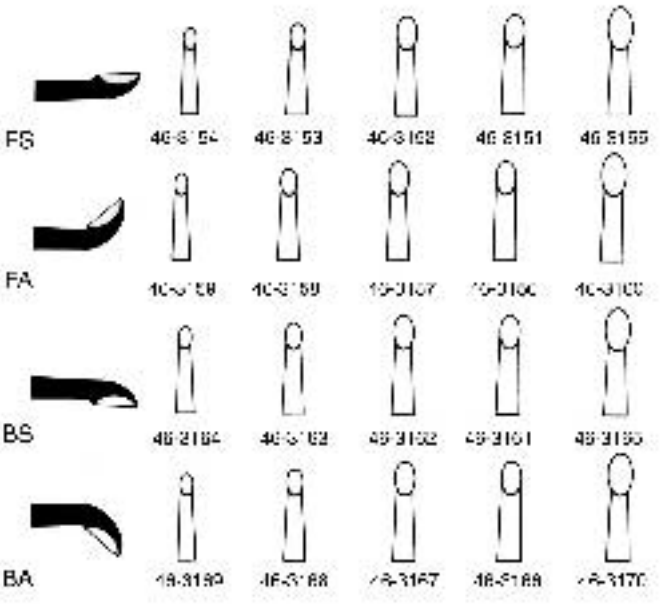
46-3150	Set of 24 instruments with 2 cases. Includes:
46-3151	Curette, Forward Straight, 0
46-3152	Curette, Forward Straight, 00
46-3153	Curette, Forward Straight, 000
46-3154	Curette, Forward Straight, 0000
46-3155	Curette, Forward Straight, Cortical Bone Cutter
46-3156	Curette, Forward Angle, 0
46-3157	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

KARLIN Ultra Cervical Microdiscectomy Instruments
Length 8½″ (21cm)
Accessories:

46-3177	KARLIN Micro Knife Blade, 2.0mm
46-3178	KARLIN Ultra Knife Blade, 1.5mm

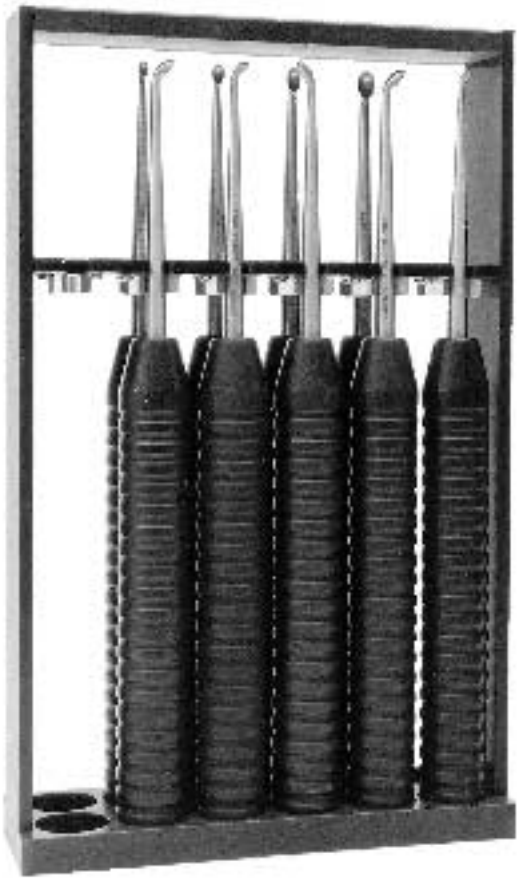


46-3152

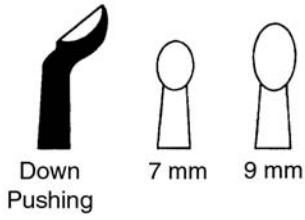


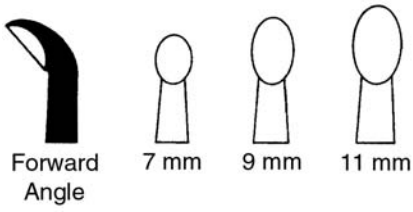
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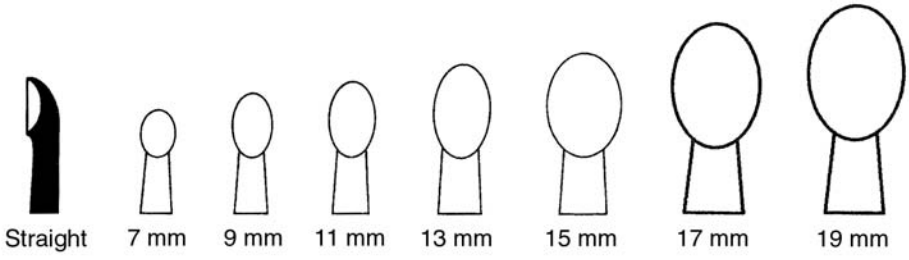
CURETTES



	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		



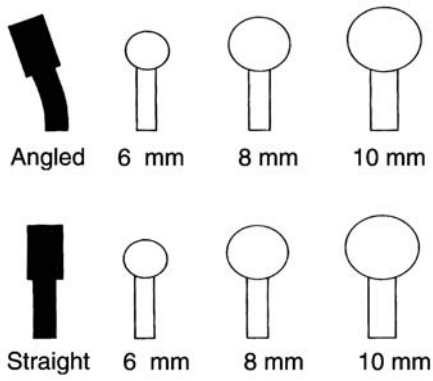


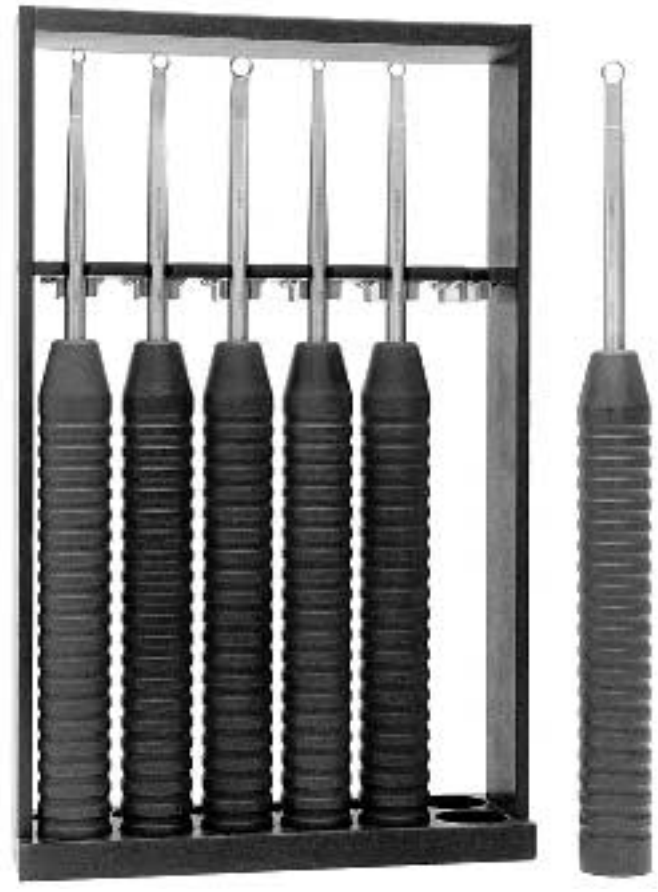


Codman

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		





SPINAL

CURETTES



46-2625	KARLIN XL Cervical discectomy 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 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)		

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



46-3410 PG MAGNUM Cup Curettes

Total length	12.6″	(32cm)
Handle length	7.8″	(20cm)
Handle diameter	1.12″	(3cm)
Working distance	4.7″	(12cm)

Large capacity cup sizes permit rapid tissue removal:
Set of 12 Cup Curettes with Case includes:

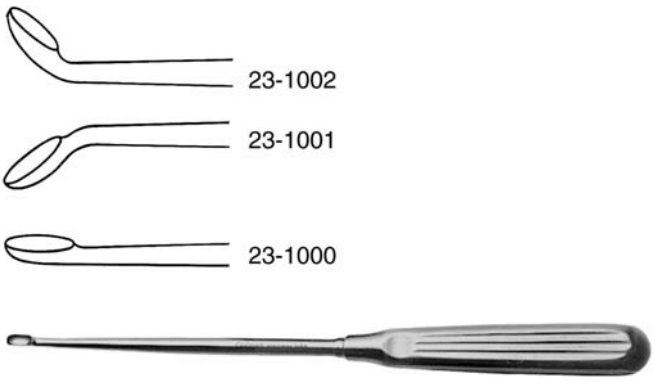
46-3411 Cup Curette, Forward, Str. 7mm
46-3412 Cup Curette, Forward, Str. 9mm
46-3413 Cup Curette, Forward, Str. 11mm
46-3414 Cup Curette, Forward, Str. 13mm
46-3415 Cup Curette, Forward, Str. 15mm
46-3416 Cup Curette, Forward, Str. 17mm
46-3417 Cup Curette, Forward, Str. 19mm
46-3418 Cup Curette, Forward, 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



CURETTES



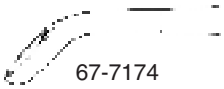
47-5010	MICROSECT Curette Kit (Includes 12 Curettes & Tray)
47-5011	#1 Forward Angle Curette, 10″
47-5012	#1 Backward Angle Curette, 10″
47-5013	#2 Forward Angle Curette, 10″
47-5014	#2 Backward Angle Curette, 10″
47-5015	#3 Forward Angle Curette, 10″
47-5016	#3 Backward Angle Curette, 10″
47-5017	#4 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



	SCOVILLE Ruptured Disc Curettes		
	Length	10″	(254mm)
	Cup Size	4x10mm	
23-1000	Straight Cup		
23-1001	Flared Laterally Cup		
23-1002	Angular Cup		



	SCOVILLE OPTI-LENGTH Curette			
		Length		Cup Size
67-7174	Lateral	12″	(30.5cm)	4x10mm
67-7175	Lateral	14″	(35.6cm)	4x10mm
67-7176	Lateral	15″	(38.1cm)	6x10mm
67-7177	Angular	12″	(30.5cm)	4x10mm
67-7178	Angular	14″	(35.6cm)	4x10mm
67-7179	Angular	15″	(38.1cm)	6x10mm



67-7174

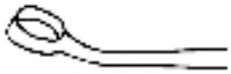


67-7177

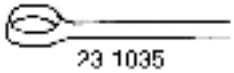
	SEMMES Spinal Fusion Curettes		
	Length	9″	(229mm)
	Ring Size	4x7mm	
23-1035	Straight		
23-1036	Slightly curved		
23-1037	Full curved		



23-1037



23-1036

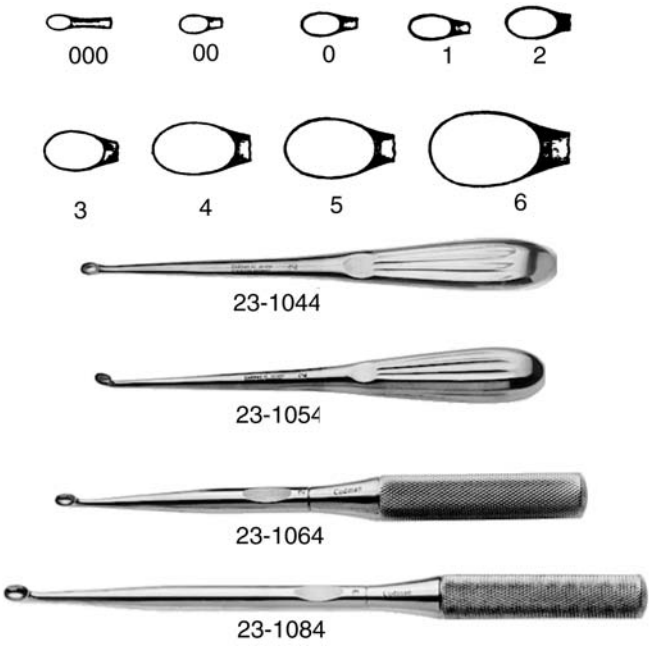


23 1035



SPINAL

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		

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)



CUTTERS, WIRE



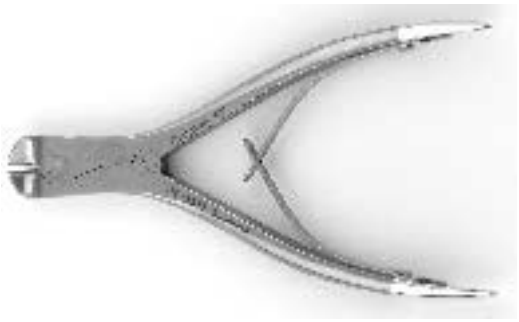
56-2510 CODMAN Wire Cutter
Length 7″ (178mm)



56-2507 KIRSCHNER Wire Cutter, chrome plated.
Length 11¼″ (159mm)

	VITAL Wire Cutter, Side Cutting			
		Jaw	Length	
32-3370	Single Action	Straight	7″	(17.8cm)
32-3371	Double Action	Straight	9″	(22.9cm)
32-3372	Double Action	Angled	6½″	(16.5cm)
32-3373	Double Action	Angled	9″	(22.9cm)





CUTTERS, WIRE



32-3341	Wire Cutters, tungsten carbide inserts Length	7″	(17.8cm)

DISSECTION, OSSEOUS

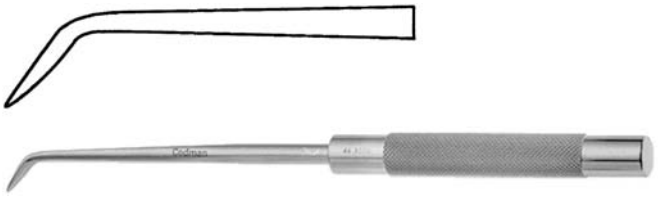


CODMAN's Micro Osseous Dissection instruments are designed for the microsurgical removal of bony, calcified or other firm tissues. These instruments can be used in conjunction with a high speed drill to thin bone before removal.

	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)
46-2605	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 Osseous Dissection Instruments		

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.

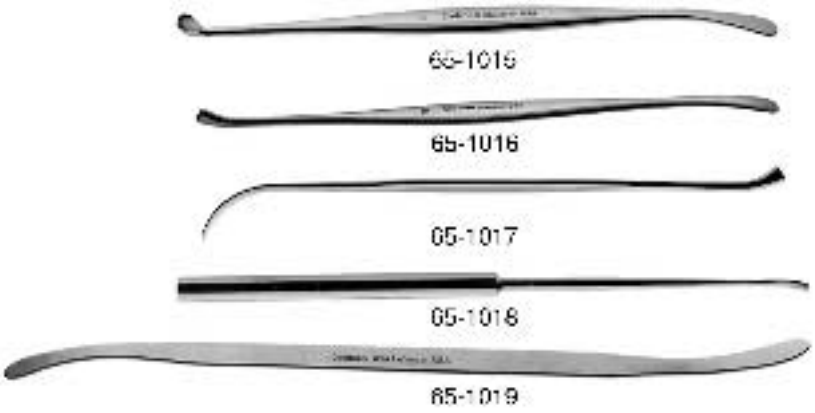
Length:	8¾″	(22cm)
Tip length:	½″	(13mm)
Tip tapers	¼″ (6mm) to ⅛″ (3mm)	



65-1038 MILLIGAN Dissector, double-ended.

Length	8½″	(216mm)
Tip sizes		(14mm)
		(16mm)





PENFIELD Dissectors

65-1015 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)

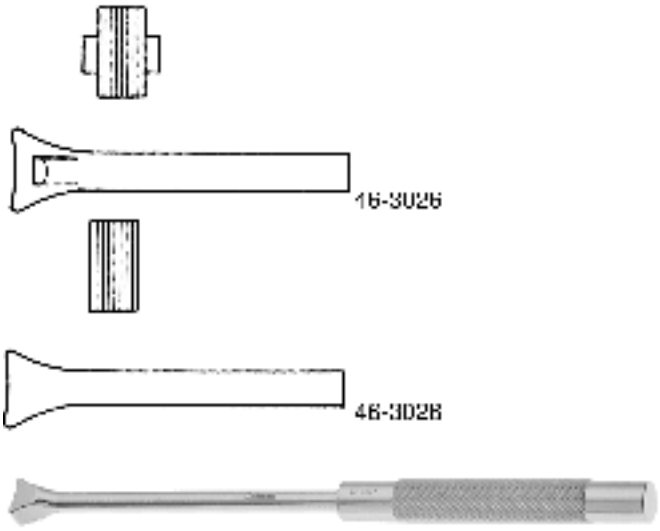
65-1019 Slightly curved blunt dissector, double-ended.
Length 11½″ (272mm)

DISSECTORS/SEPARATORS



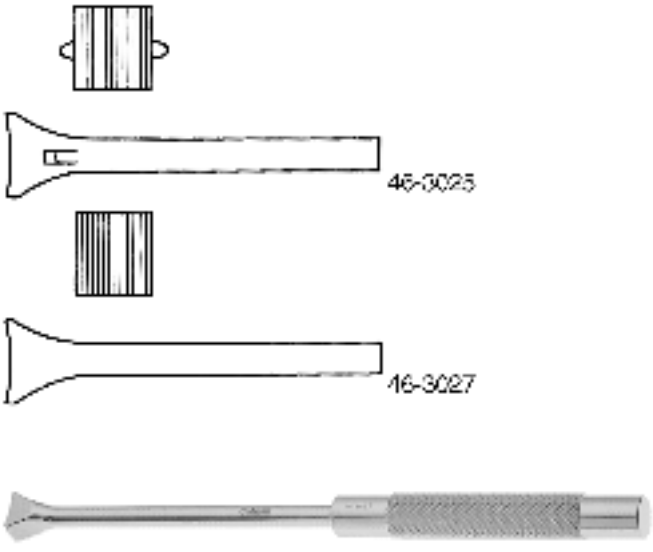
50-1665	CROCKARD Bayonet Micro-Dissector 10″ (250mm) for transoral dissection, footplate designed to dissect tissue and reduce opportunity for dural penetration. Especially useful in definition of apical and alar ligaments and general dissection. Length	10″	(250mm)

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	8¾″ (22cm)	¼″ (6.5mm)
46-3028	Unguarded	8¾″ (22cm)	5/16″ (7.mm)



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	8¾″ (22cm)	⅜″ (9.5mm)
46-3027	Unguarded	8¾″ (22cm)	13/32″ (10mm)

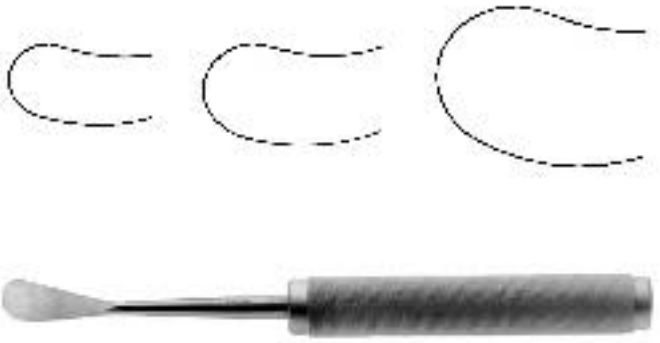
	ADSON Periosteal Elevators,		
	Length	6½″	(165mm)
65-1030	No. 1 Chisel edge		
	Blade width	5/16″	(8mm)
65-1031	No. 2 Curved, blunt edge		
	Blade width	¼″	(6mm)
65-1032	No. 3 Curved, semi-sharp edge		
	Blade width	¼″	(6mm)
65-1033	No. 4 Straight, semi-sharp edge		
	Blade width	5/16″	(8mm)



65-2549	CARROLL Periosteal Elevator, double-ended.		
	Blade width	⅛″	(3mm)
	Blade width	⅜″	(10mm)
	Length	5½″	(140mm)



	COBB Spinal Elevators		
65-2545	Blade width	⅜″	(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)



	CODMAN Periosteal Elevators, sharp.		
	Length	8″	(203mm)
	Tip width		
65-1056	3/16″		(5mm)
65-1057	¼″		(6.4mm)
65-1058	5/16″		(8mm)
65-1059	15/32″		(12mm)



ELEVATORS



65-1121	CODMAN Periosteal Elevator, sharp.		
	Blade width	3/16″	(5mm)
	Length	8″	(203mm)



	CUSHING Little Joker Periosteal Elevators		
65-1047	Hollow handle		
	Blade width	1/4″	(6mm)
	Length	6″	(152mm)
65-1048	Solid handle		
	Blade width	1/4″	(6mm)
	Length	7 1/2″	(191mm)



	CUSHING Periosteal Elevators, sharp.		
65-1050	Narrow		
	Blade width	1/4″	(6mm)
	Length	8 1/8″	(206mm)
65-1051	Extra narrow		
	Blade width	3/16″	(5mm)



65-1092	CUSHING Periosteal Elevator, sharp, narrow, Gutsch handle.		
	Blade width	3/16″	(5mm)
	Length	7 5/8″	(194mm)



	CUSHING Periosteal Elevators, sharp, wide.		
65-1075	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)



65-1045 CUSHING Staphylorrhaphy Elevator
Round handle

Blade width	7/16″	(11mm)
Length	8½″	(216mm)



65-1094 CUSHING-HOPKINS Periosteal Elevator,
Gutsch handle.

Blade width	7/16″	(11mm)
Length	7⅝″	(194mm)



HOEN Periosteal Elevators

65-1001	No. 1 Blade width	5/16″	(8mm)
	Total length	7″	(178mm)
65-1002	No. 2 Blade width	⅝″	(15mm)
	Total length	7¼″	(184mm)
65-1003	No. 3 Blade width	¾″	(20mm)
	Total length	7½″	(191mm)

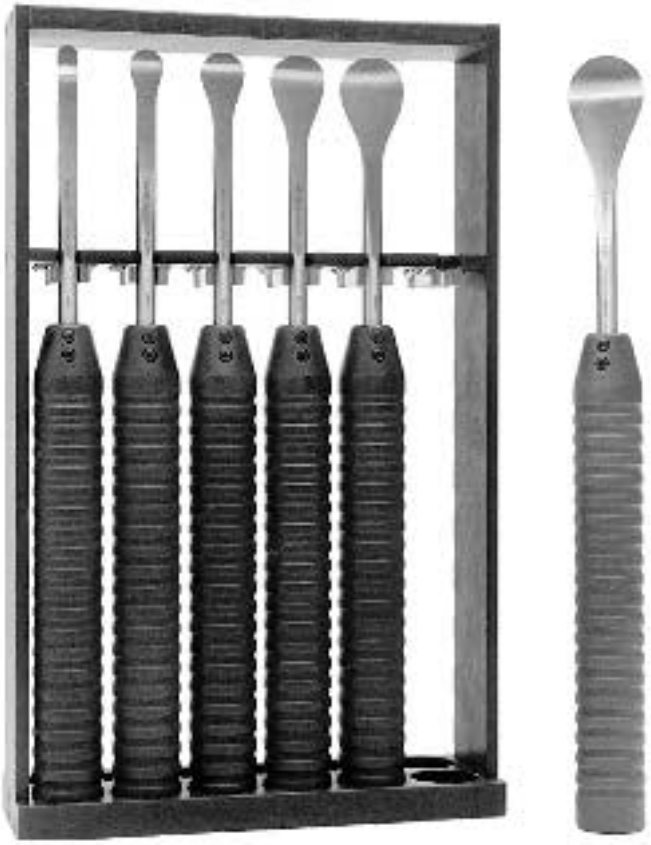


65-1080 IOWA UNIVERSITY Periosteal Elevator

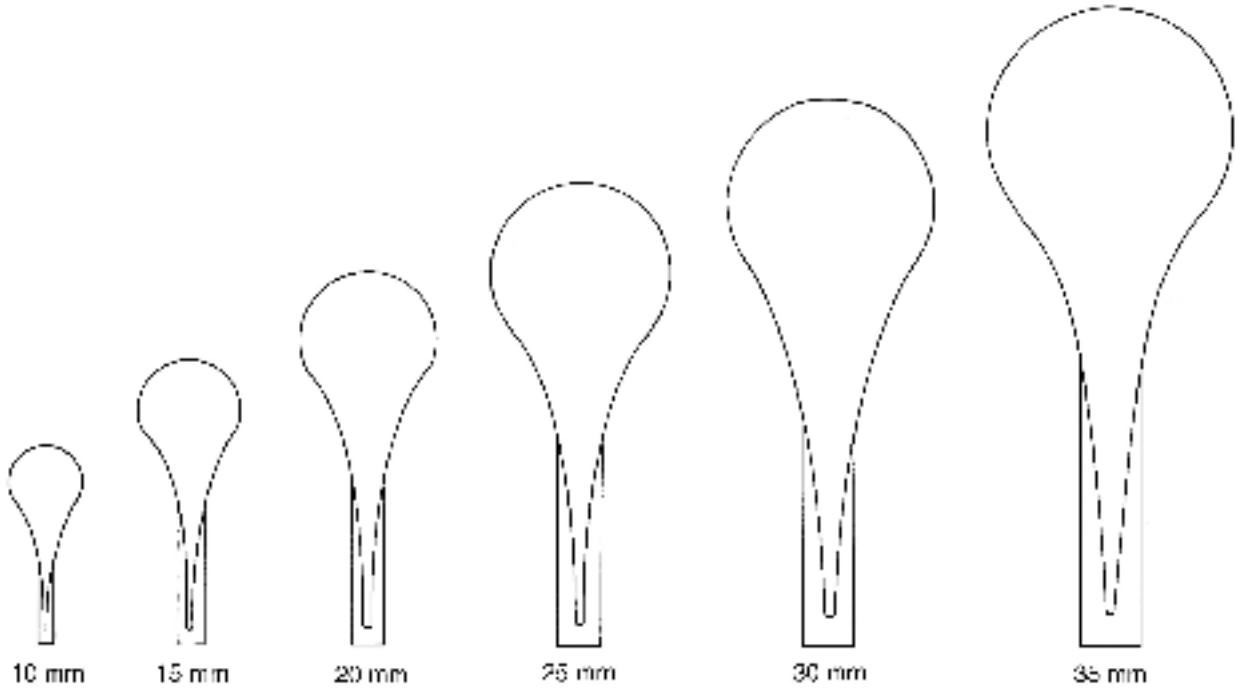
Blade width	1 1/16″	(17mm)
Length	7¼″	(184mm)

SPINAL

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		



	KEY Periosteal Elevators		
	Total length	7½″	(191mm)
65-2510	Blade width	¼″	(6mm)
65-2511	Blade width	⅜″	(10mm)
65-2512	Blade width	½″	(13mm)
65-2513	Blade width	¾″	(19mm)
65-2514	Blade width	1″	(25mm)



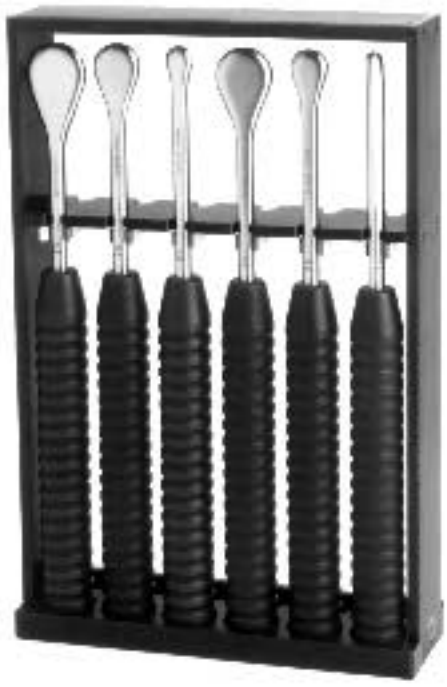
	LANGENBECK Periosteal Elevators		
65-1115	Narrow		
	Blade width	¼″	(6mm)
	Length	8¼″	(206mm)
65-1116	Wide		
	Blade width	1 1/16″	(17mm)
	Length	7½″	(191mm)



65-1110	LOVE-ADSON Periosteal Elevator, semi-sharp.		
	Blade width	3/16″	(5mm)
	Length	6½″	(165mm)



	PG MAGNUM COBB Elevators		
46-3425	Total length	12.6″	(32cm)
	Handle length	7.8″	(20cm)
	Handle diameter	1.12″	(3cm)
	Working distance	4.7″	(12cm)
	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		



ELEVATORS



32-3420 MOLT, Periosteal Elevator #9

Length	7¼″	(18.5cm)



PRESBYTERIAN HOSPITAL Staphylorrhaphy Elevators, double-ended, semi-sharp and sharp blades.

Blade width		(4mm)
Length	7″	(178mm)

65-1005 Straight
65-1006 Curved



65-1008 SUNDAY Staphylorrhaphy Elevator, blunt, slightly curved.

Blade width		(3mm)
Length	9″	(229mm)



65-1135 WOODSON Dural Separator and Packer, double-ended with groove in blade.

Blade width	⅛″	(3mm)
Blade length	½″	(13mm)
Total length	7″	(178mm)



59-1000 WOODSON Elevator and Spatula, double-ended, semi-sharp.

Blade width	⅛″	(3mm)
Blade depth	½″	(13mm)
Total length	10″	(254mm)

FORCEPS, DISCECTOMY

80-1654 WILLIAMS Discectomy Forceps, single-toothed cup.

Bit size		2mm
Length	5½″	(140mm)



FORCEPS, LIGAMENTA FLAVA

30-1228 LIGAMENTA FLAVA Forceps, curved on side, 1x2 teeth.

Length	7¼″	(184mm)



FORCEPS, MICRO

80-1654 WILLIAMS Discectomy Forceps, single-toothed cup.

Bit size		2mm
Length	5½″	(140mm)



GAUGE

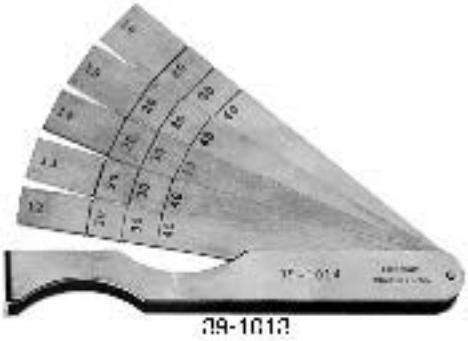


39-1015 CODMAN LW Gauge
Designed to be used anywhere on the spine to measure the length and width of a space.



39-1012 CODMAN Depth Gauge

Length	8 3/8″	(213mm)



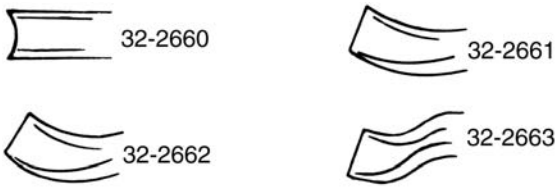
39-1013 CODMAN Spanner Gauge, small.

Length	5 1/8″	(130mm)
Width		(7mm)
		(8mm)
		(9mm)
		(10mm)
		(11mm)

39-1014 CODMAN Spanner Gauge, large.

Length	5 1/8″	(130mm)
Width		(12mm)
		(13mm)
		(14mm)
		(15mm)
		(16mm)

GOUGES





COBB Spinal Gouges

Tip width	1/4″	(6mm)
Length	11″	(279mm)

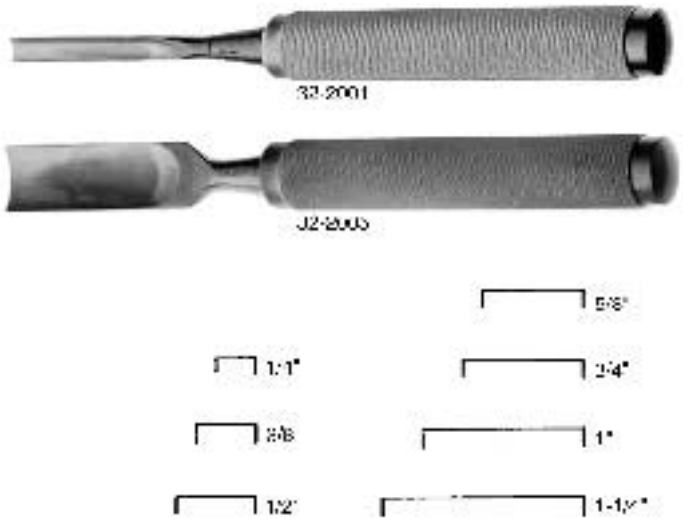
32-2660 Straight
32-2661 Lesser curve
32-2662 Full curve
32-2663 Reverse curve

Fits in Codman sterilizing and carrying case 21-1020.

CODMAN Bone Gouges

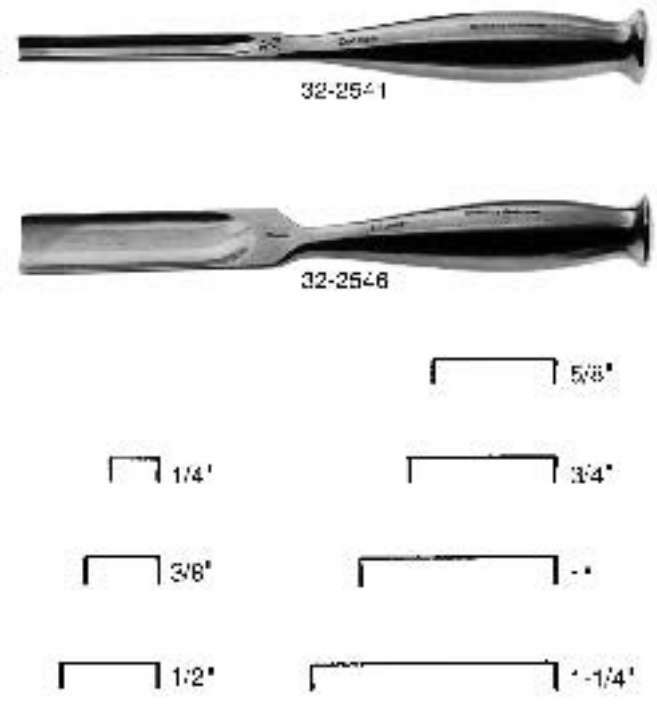
	Length	11″	(279mm)
Straight	Curved	Tip width	
32-2000	**32-2010**	¼″	(6mm)
32-2001	**32-2011**	⅜″	(10mm)
32-2002	**32-2012**	½″	(13mm)
32-2003	**32-2013**	⅝″	(16mm)
32-2004	**32-2014**	¾″	(19mm)
32-2005	**32-2015**	1″	(25mm)
32-2006	**32-2016**	1¼″	(32mm)

Fits in Codman sterilizing and carrying case 21-1020.



SMITH-PETERSEN Bone Gouges

	Length	8″	(203mm)
Straight	Curved	Tip width	
32-2540	**32-2550**	¼″	(6mm)
32-2541	**32-2551**	⅜″	(10mm)
32-2542	**32-2552**	½″	(13mm)
32-2543	**32-2553**	⅝″	(16mm)
32-2544	**32-2554**	¾″	(19mm)
32-2545	**32-2555**	1″	(25mm)
32-2546	**32-2556**	1¼″	(32mm)



SPINAL

HAMMERS



88-1005	CODMAN Hammer		
	Small face diameter	¾″	(19mm)
	Ball pean		
	Face diameter	1 1/16″	(11mm)
	Weight	8 oz.	(227 gm)
	Length	7½″	(191mm)
88-1006	CODMAN Hammer		
	Large face diameter	1″	(25.4mm)
	Ball pean		
	Face diameter	⅞″	(22mm)
	Weight	13 oz.	(368 gm)
	Length	9″	(229mm)

HOOK, BONE



	Bone Hook		
		Hook Diameter	Length
32-3422	Large—Sharp,	6.0cm	8½″ (21.5cm)
32-3423	Heavy Duty—Sharp,	1.9cm	9″ (22.9cm)
32-3424	Heavy Duty—Blunt,	1.9cm	9″ (22.9cm)
32-3425	Heavy Duty—Sharp,	3.0cm	9″ (22.9cm)

HOOKS, DURAL



38-1038	CODMAN Dural Hook, sharp.		
	Length	6½″	(165mm)
	Tip Diameter		(2mm)

HOOKS, IMPACTORS

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	8¾″	(22cm)
Tip length	½″	(13mm)
Tip width	7/32″	(7mm)



HOOKS, LAMINECTOMY

SCOVILLE Hooks

13-1004C	Length	2″	(51mm)
13-1005C	Length	3″	(76mm)



SCOVILLE Hooks with fixed crossbar.

13-1064	Crossbar length	1″	(25mm)
	Length	1½″	(38mm)
13-1065	Crossbar length	1″	(25mm)
	Length	2 3/16″	(56mm)
13-1066	Crossbar length	1″	(25mm)
	Length	21 5/16″	(75mm)



HOOKS, NERVE



38-1030 CUSHING Gasserian Ganglion Hook, Blunt

Hook depth	3/16″	(5mm)
Total length	9″	(229mm)

SPINAL

HOOKS, NERVE



	Length	8½″	(21 cm)
46-3171	Micro Nerve Hook		
46-3172	Ultra Micro Nerve Hook		



	Instrument Length	9½″	(24 cm)
	Working distance	4.1″	(10.4 cm)
	Handle width	0.6″	(1.5 cm)
46-2646	XL Cervical Micro Nerve Hook		
46-2647	XL Cervical Ultra Micro Nerve Hook		

IMPACTOR



51-1010	CODMAN Dowel Impactor, round.		
	Diameter		8mm
	Length	9″	(229mm)

IMPACTOR GRAFT, BONE



28-1000	CODMAN Bone Graft Impactor, double ended.		
	End diameter	7/16″	(11mm)
	End diameter	9/16″	(14mm)
	Length	8¾″	(222mm)



28-1003	CODMAN Bone Graft Impactor and Holder		
	Length	8¾″	(222mm)

46-3020 CODMAN Micro Impactor Set
The set includes:

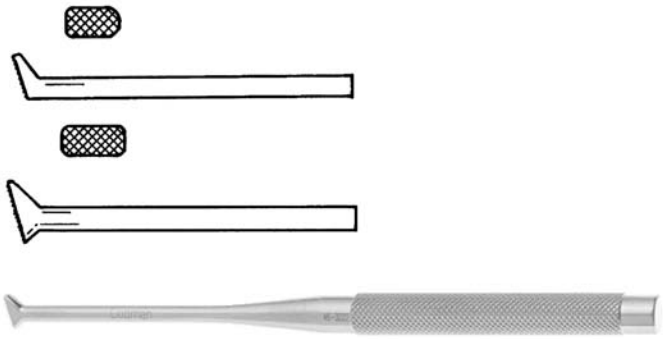
Length	7″	(18cm)

46-3021 Micro Offset Central Canal Impactor

Tip size	.17″	(4.3mm)

46-3022 Micro Lateral Gutter Impactor

Tip size	.37″	(9.4mm)



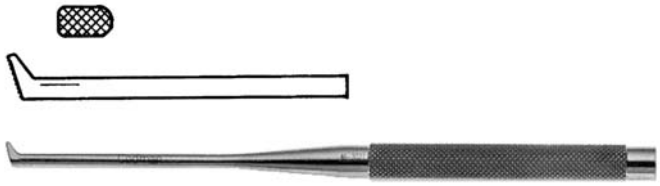
46-3022 Micro Lateral Gutter Impactor
Designed for Spondylophyte impaction within a limited exposure and within neuroforamina. Slip resistant textured impaction surface is held perpendicular to surrounding bone planes and impacted with mallet.

Length	7″	(178mm)
Tip depth	5/16″	(8mm)
Tip width	5/32″	(4mm)



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)

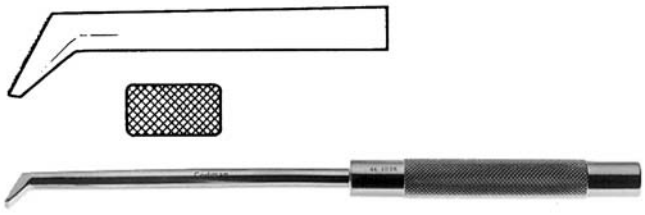


SPINAL

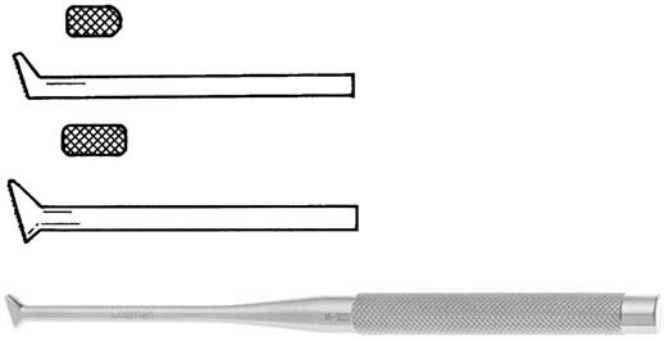
IMPACTORS, SPONDYLOPHYTE

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.

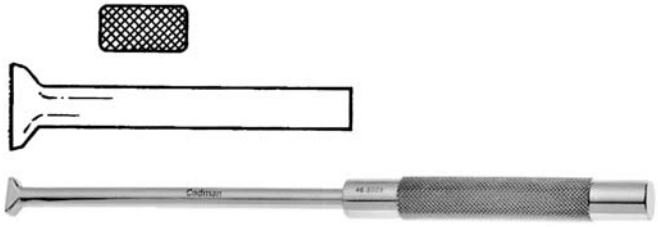
Length	8 3/4″	(22cm)
Tip length	1/2″	(13mm)
Tip width	7/32″	(7mm)



IMPACTORS, SPONDYLOPHYTE



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)



46-3009 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 7⁄32″ (13mm)



Instruments sold separately

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)

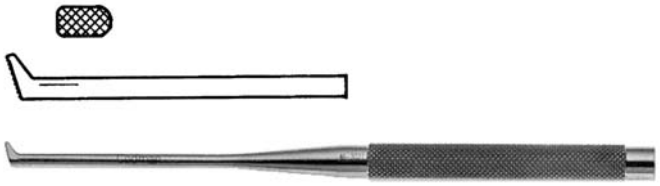
46-3022 Micro Lateral Gutter Impactor
Designed for Spondylophyte impaction within a limited exposure and within neuroforamina. Slip resistant textured impaction surface is held perpendicular to surrounding bone planes and impacted with mallet.

Length	7″	(178mm)
Tip depth	5/16″	(8mm)
Tip width	5/32″	(4mm)



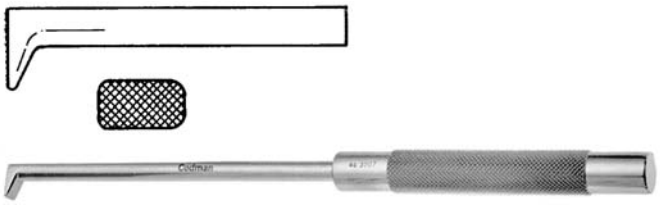
46-3021 MICRO Offset Central Canal Impactor
Designed for spondylophyte impaction within a limited exposure; and, within neuroforamina. Slip resistant textured impaction surface is held perpendicular to surrounding bone planes and impacted with mallet.

Length	7″	(178mm)
Tip length	1/4″	(6mm)
Tip width	5/32″	(4mm)



46-3007 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.

Length	8 3/4″	(22cm)
Tip length	7/16″	(10mm)
Tip width	7/32″	(5mm)



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	1/4″	(6mm)



KNIFE, MICRO



Javelin Micro-Knife Handles
These 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)

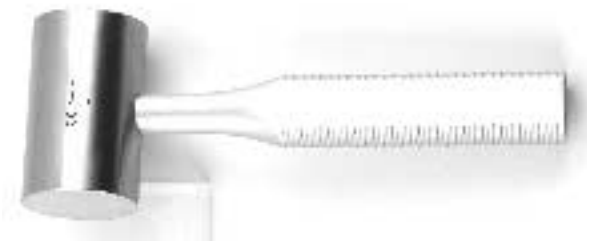
KARLIN™ Disposable Blades
46-3177 2mm Micro Tip
46-3178 1.5mm Ultra Tip



46-3174 KARLIN™ Micro-Knife Handle combines patented* black 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

MALLETS



32-3330 HEATH Mallet, Flat, 2 lbs. (908g)

Length	7¼″	(18.4cm)
Head Dimensions	2½″ (6.4cm) × 1½″ (4cm)	



88-2520 HIBBS Mallet, solid brass head.

Diameter	1½″	(38mm)
Length	8″	(203mm)
Weight	12 oz.	(340g.)

Codman

MALLETS

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)



88-2500 SMITH PETERSEN Mallet, solid brass head.

Diameter	1½″	(38mm)
Length	7″	(178mm)
Weight	15 oz.	(420g.)



OSSEOUS DISSECTION KIT

CODMAN's Micro Osseous Dissection instruments are 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.

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)

46-2605 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 Osseous Dissection Instruments



SPINAL

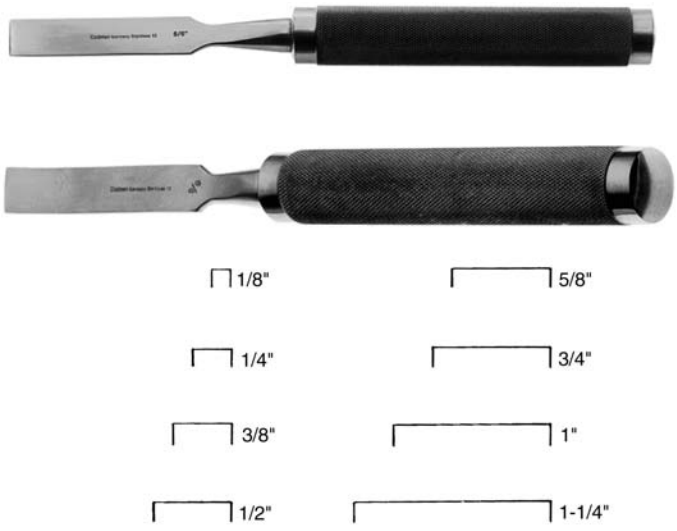
OSTEOTOMES



18-1013	CODMAN Osteotome		
	Blade width		4mm
	Length	7″	(178mm)



21-2500	CODMAN Gouge and Osteotome Case, holds seven SMITH-PETERSEN gouges or osteotomes.		
	Length	9″	(229mm)
	Width	6⅞″	(175mm)
	Depth	2¼″	(57mm)



	CODMAN Osteotomes, straight.		
	Length	11″	(279mm)
46-2000	Tip width	¼″	(6mm)
46-2001	Tip width	⅜″	(10mm)
46-2002	Tip width	½″	(13mm)
46-2003	Tip width	⅝″	(16mm)
46-2004	Tip width	¾″	(19mm)
46-2005	Tip width	1″	(25mm)
46-2006	Tip width	1¼″	(32mm)
	CODMAN Osteotomes, curved.		
	Length	11″	(279mm)
46-2010	Tip width	¼″	(6mm)
46-2011	Tip width	⅜″	(10mm)
46-2012	Tip width	½″	(13mm)
46-2013	Tip width	⅝″	(16mm)
46-2014	Tip width	¾″	(19mm)
46-2015	Tip width	1″	(25mm)
46-2016	Tip width	1¼″	(32mm)

Fits in Codman sterilizing and carrying case 21-1020.

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	Slightly curved	6mm	9½″	(241mm)
46-1024	Full curved	8mm	9½″	(241mm)
46-1025	Straight	6mm	9½″	(241mm)
46-1026	Curved	6mm	9½″	(241mm)
46-1019	Straight	10mm	9½″	(241mm)



HOKE Osteotome

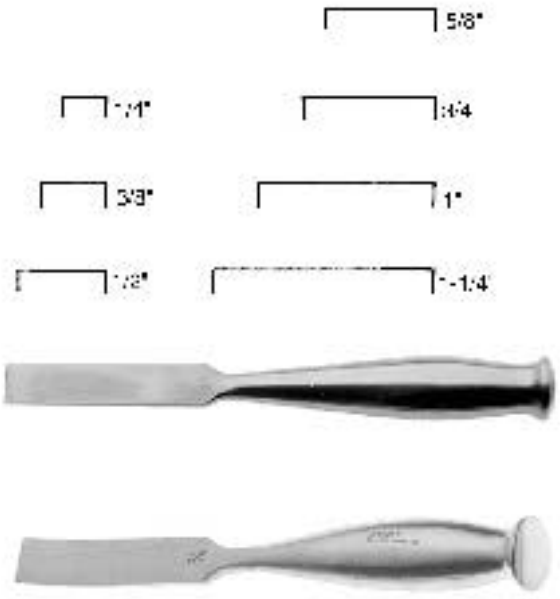
	Length	6″	(15.2cm)
		BladeWidth	
32-3430	Curved	0.3cm	
32-3431	Curved	0.6cm	
32-3432	Curved	1.3cm	
32-3433	Curved	1.0cm	
32-3434	Curved	1.6cm	
32-3435	Straight	0.6cm	
32-3436	Straight	1.0cm	
32-3437	Straight	1.3cm	
32-3438	Straight	1.6cm	
32-3439	Straight	0.3cm	



46-3050	KARLIN 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		



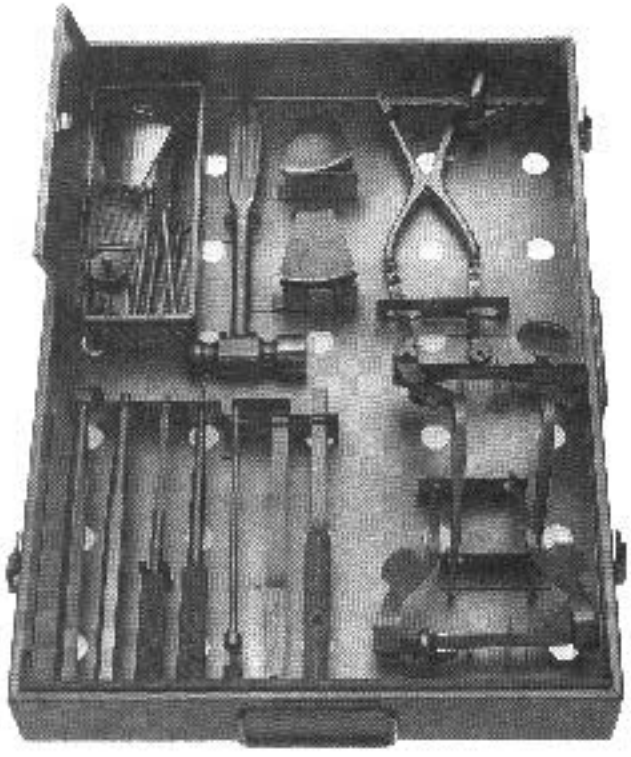
OSTEOTOMES



	SMITH-PETERSEN Osteotomes, straight.		
	Blade thickness		2mm
	Length	8″	(203mm)
46-2500	Tip width	¼″	(6mm)
46-2501	Tip width	⅜″	(10mm)
46-2502	Tip width	½″	(13mm)
46-2503	Tip width	⅝″	(16mm)
46-2504	Tip width	¾″	(19mm)
46-2505	Tip width	1″	(25mm)
46-2506	Tip width	1¼″	(32mm)
	SMITH-PETERSEN Osteotomes, curved.		
	Blade thickness		2mm
	Length	8″	(203mm)
46-2510	Tip width	¼″	(6mm)
46-2511	Tip width	⅜″	(10mm)
46-2512	Tip width	½″	(13mm)
46-2513	Tip width	⅝″	(16mm)
46-2514	Tip width	¾″	(19mm)
46-2515	Tip width	1″	(25mm)
46-2516	Tip width	1¼″	(32mm)

Fit in Codman Gouge and Osteotome case 21-2500.

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
51-1011C	CODMAN Square Punch, stepped down
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

POSTERIOR LUMBAR INTERBODY FUSION KIT (PLIF) II

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
23-1020C	7mm, angled 50°
	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, 9½″, straight
46-1020	6mm, 7½″, curved
46-1021	6mm, 7½″, straight
46-1022	8mm, 9½″, straight
46-1023	8mm, 9½″, slightly curved
46-1024	6mm, 9½″, full curved
46-1025	6mm, 9½″, straight
46-1062	6mm, 9½″, curved
50-1362	CODMAN ADSON Retractor
50-1209	CODMAN Flexible Nerve Root Retractor



PUNCHES

51-1011C	CODMAN Square Punch, stepped down.		
	Tip width		13mm
	Length	9″	(229mm)



RASP

65-8005	ALEXANDER Coastal Periosteotomes, sharp, double-ended.		
	Elevator width	½″	(13mm)
	Stripper width	1″	(25mm)
	Length	8⅜″	(213mm)



SPINAL

RASP



DOYEN Rib Raspatories, sharp.

	Blade Length	1⅛″	(30mm)
	Length	7″	(178mm)
52-8000	Left		
52-8001	Right		



52-1005	JOSEPH Periosteal Raspatory, sharp.		
	Working distance	1⅝″	(41mm)
	Tip width	¼″	(6mm)
	Length	6⅞″	(175mm)



32-3445	MILLER Rasp, Double Ended		
	Length	7¼″	(18.4cm)

RETRACTOR



50-1362	CODMAN ADSON Retractor		
	Length	9½″	(240mm)
	Total opening	5″	(120mm)
	Shank angle 65°		
	3 x 3 sharp prongs		

RETRACTOR

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	9/32″	(8mm)
	Tip depth	¼″	(6mm)



RETRACTOR, BLADE

	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



SPINAL

RETRACTORS, BOOKWALTER, KITS



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	

See the Bookwalter Section of this catalog for a complete listing of our Bookwalter Products

RETRACTORS, CERVICAL

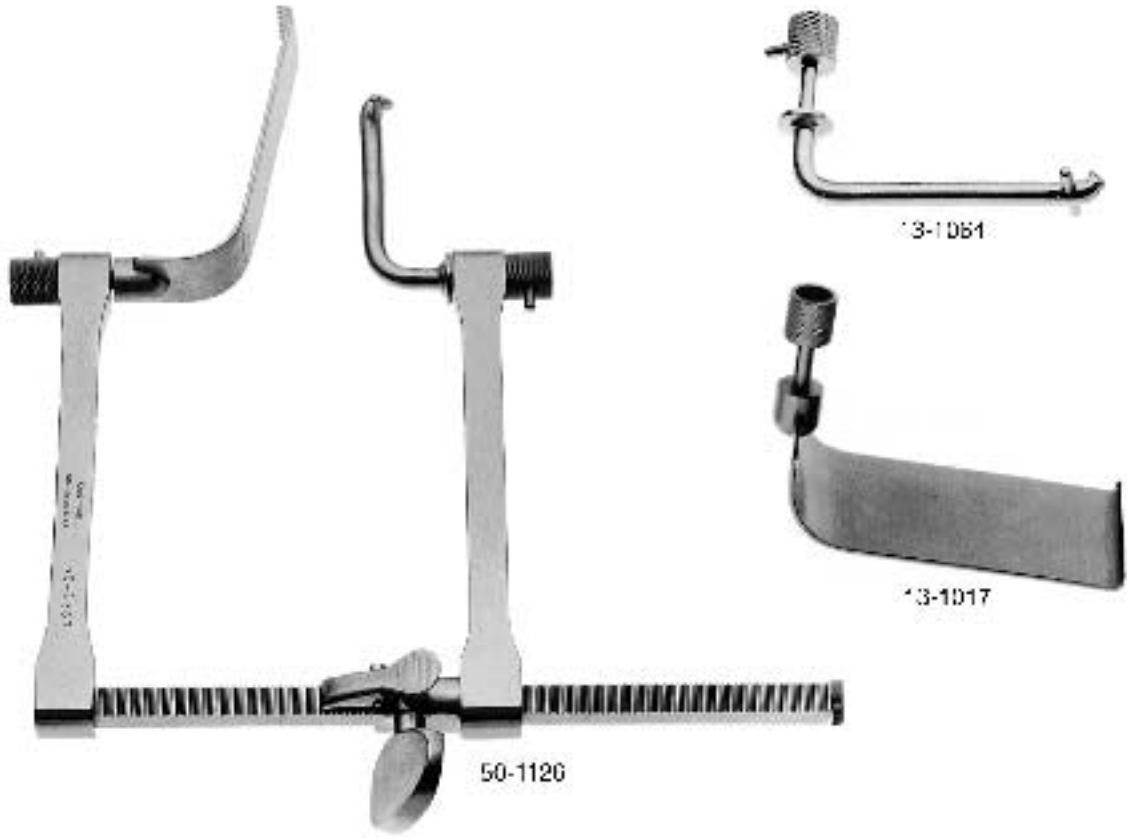


50-1390	CODMAN Cervical Retractor Set, small, self-retaining, with 7 pairs of blunt blades.		
	Length	6″	(152mm)
	Total opening	3¾″	(95mm)
	Includes the following:		
50-1356	CODMAN Cervical Retractor Body, small. CODMAN Retractor Blades, blunt. Blade depth		
50-1391	25mm		
50-1392	30mm		
50-1393	35mm		
50-1394	40mm		
50-1395	45mm		
50-1396	50mm		
50-1397	55mm		



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		

RETRACTORS, CERVICAL



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)

RETRACTOR, CERVICAL, BLADES

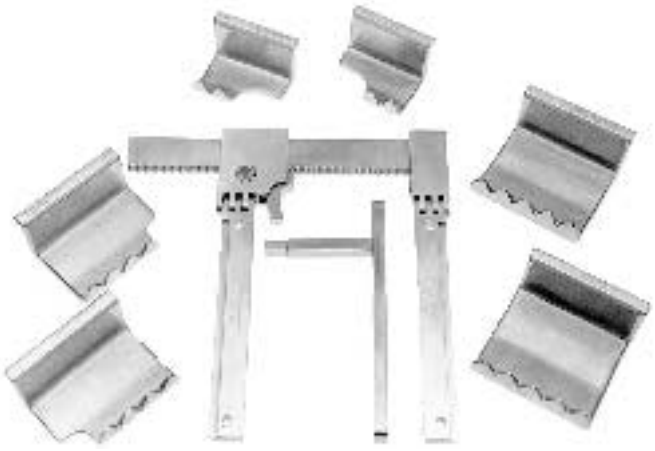
	CODMAN Single Tooth Retractor Blade
50-1388	35mm
50-1389	45mm
	Used with 50-1830 CODMAN Cervical Retractor, Large or 50-1390 Codman Cervical Retractor, Small.



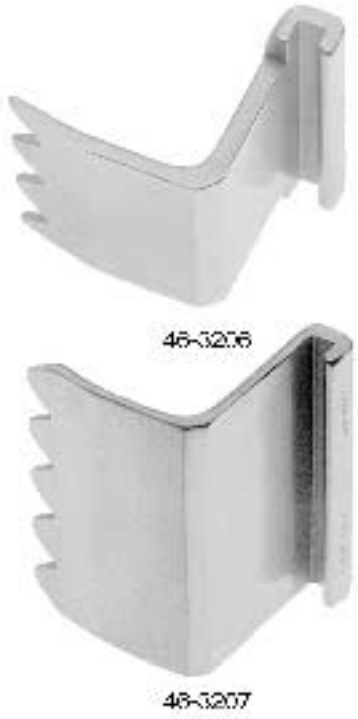


RETRACTOR, CRANK FRAME, SET

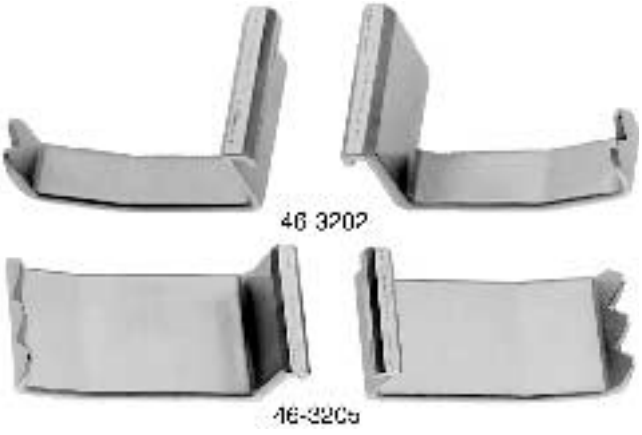
46-3190	KARLIN CRANK FRAME SPINAL RETRACTOR SET Designed for posterior Lumbar and Thoracic spine surgery. Arm design allows the blades to be pre-positioned in the wound prior to attachment. Blades are interchangeable. Multiple blades may be used on each retractor arm. Maximum width opening 5½″ (140mm) 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)



RETRACTOR, CRANK FRAME, COMPONENTS



	Crank Frame Retractor Blade, Semi Hemi
46-3206	Size 1¼″ x 1¼″ (31mm x 31mm)
46-3207	Size 2″ x 1¼″ (51mm x 31mm)



	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)

RETRACTOR, CRANK FRAME, COMPONENTS

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)



RETRACTOR, 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. Total length 6″ [15.2cm]

	Blade Width	Blade Length
80-1650	1cm	5cm
80-1651	2cm	5cm
80-1652	1cm	7cm
80-1653	2cm	7cm



RETRACTORS, DOUBLE ENDED



50-4071 U.S. ARMY Retractors, double-ended, set of two.

Length	8 5/16″	(211mm)
Blade width	1 3/4″	(44mm)
Blade depth	9/16″	(14mm)
Blade width	1 1/4″	(32mm)
Blade depth	9/16″	(14mm)

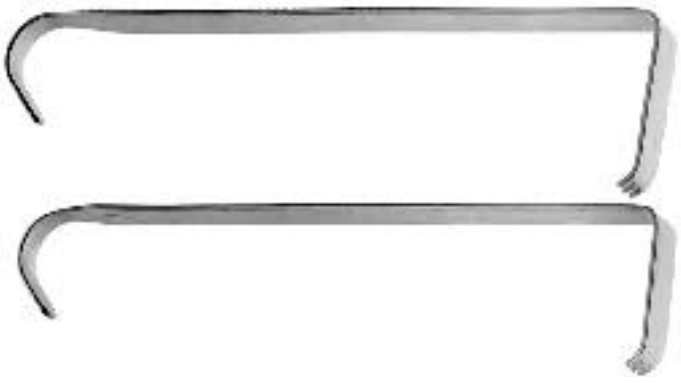
RETRACTOR, DURAL



50-1105 CODMAN Dural Retractor, self-retaining with three malleable blades.

Blade length	4″	(102mm)
Length	8 1/4″	(210mm)
Blade width	11mm	
Blade width	13mm	
Blade width	15mm	

RETRACTORS, GENERAL PURPOSE



50-2558C HIBBS Retractors, double-ended, set of two.

Blade width	3/4″	(19mm)
Blade depth	2″	(51mm)
Length	9 1/4″	(235mm)



50-1255	BADGLEY Laminectomy Retractor, self-retaining		
	Blade width	1¾″	(44mm)
	Blade depth	2″	(51mm)
	Total opening	6⅜″	(162mm)



	BECKMAN-ADSON Laminectomy Retractors, self-retaining with hinged arms.		
50-1160	Four prong, blunt blades		
	Blade width	1″	(25mm)
	Blade depth	1¼″	(32mm)
	Total opening	5″	(127mm)
	Length	12⅛″	(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	1¾″	(44mm)
	Total opening	5½″	(140mm)
	Length	12″	(305mm)

RETRACTORS, LAMINECTOMY



50-1163	BECKMAN-EATON Laminectomy Retractor, self-retaining with hinged arms. Seven prong blades		
	Blade width	1¾″	(44mm)
	Blade depth	1⅞″	(48mm)
	Total opening	5½″	(140mm)
	Length	12¾″	(324mm)



	CONE Laminectomy Retractors, self-retaining with hinged arms, 3x4 sharp prongs.		
50-1167	Length	6⅜″	(162mm)
50-1168	Length	8″	(203mm)





	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)



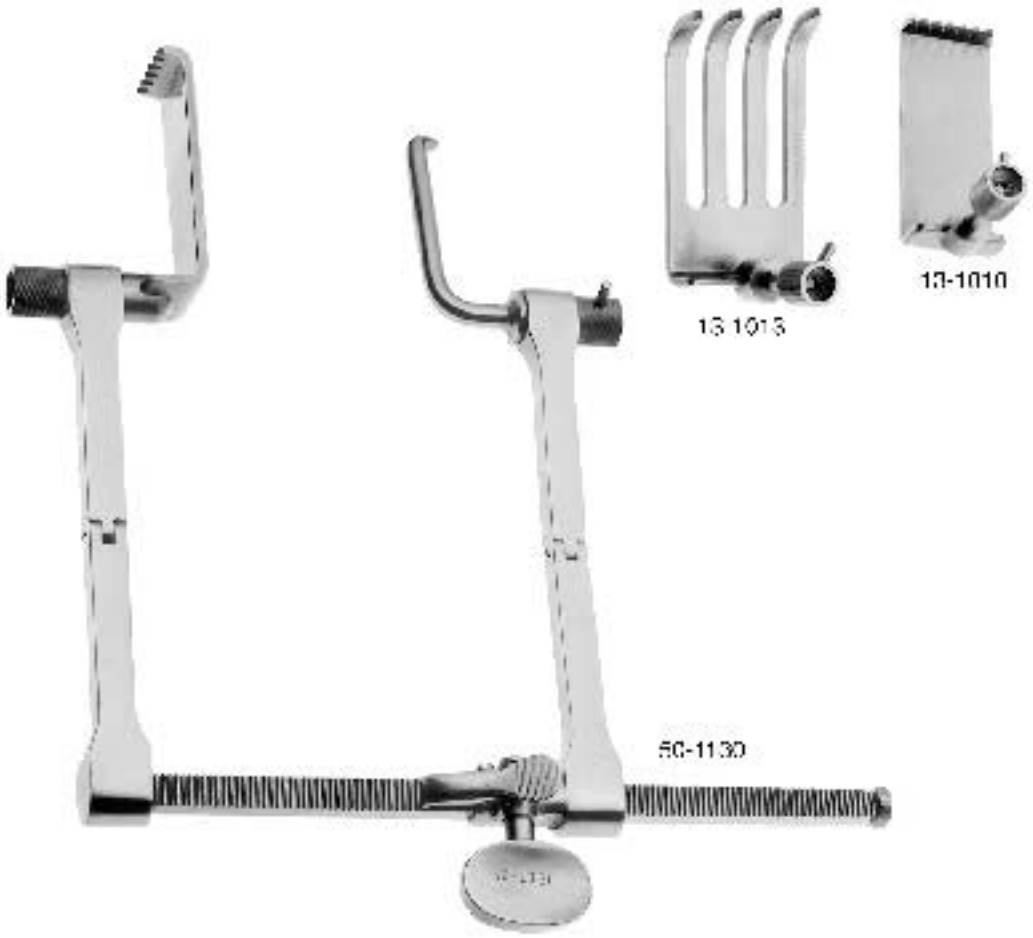


	MEYERDING Laminectomy Retractors		
50-1065	Blade width	⅝″	(16mm)
	Blade depth	2″	(51mm)
	Length	9″	(229mm)
50-1066	Blade width	1″	(25mm)
	Blade depth	3″	(76mm)
	Length	9½″	(241mm)
50-1067	Blade width	2″	(51mm)
	Blade depth	3½″	(89mm)
	Length	9½″	(241mm)

50-1212	POPPEN-GELPI Laminectomy Retractor, self-retaining		
	Total opening	2½″	(64mm)
	Length	5½″	(140mm)



RETRACTORS, LAMINECTOMY



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	5¾″	(146mm)
	Total opening	7″	(178mm)
	SCOVILLE Retractor Blades		
13-1008	Blade width	1″	(25mm)
	Blade depth	2½″	(64mm)
	SCOVILLE Hook		
13-1004C	Length	2″	(51mm)
	Optional Blades		
13-1010	Blade width	1⅛″	(29mm)
	Blade depth	2⅝″	(67mm)
13-1011	Blade width	1″	(25mm)
	Blade depth	3½″	(89mm)
	SCOVILLE Retractor Blades, four prong.		
13-1012	Blade width	1½″	(38mm)
	Blade depth	1⅝″	(41mm)
13-1013	Blade width	1¾″	(44mm)
	Blade depth	2⅝″	(67mm)

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)
13-1004C	SCOVILLE Retractor Hook		
	Length	2″	(51mm)
13-1008	SCOVILLE Retractor Blade		
	Blade width	1″	(25mm)
	Blade depth	2 1/2″	(64mm)
	Optional Blade		



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)



	TAYLOR Spinal Retractors		
50-1085	Blade width	1 3/16″	(30mm)
	Blade depth	3″	(76mm)
	Length	7 1/4″	(184mm)
50-1086	Blade width	1 1/4″	(32mm)
	Blade depth	4″	(102mm)
	Length	7 1/4″	(184mm)



RETRACTORS, LAMINECTOMY



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		
13-1004C	SCOVILLE Retractor Hook		
	Length	2″	(51mm)
13-1008	SCOVILLE Retractor Blade		
	Blade width	1″	(25mm)
	Blade depth	2½″	(64mm)

RETRACTORS, LAMINECTOMY, BLADE



13-1009	SCOVILLE Retractor Blade		
	Blade Width	2″	(51mm)
	Blade Length	2½″	(64mm)

RETRACTORS, LAMINECTOMY, BLADE

	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	3⅛″	(79mm)



RETRACTOR, LUMBAR

50-1249	CODMAN Lumbar Retractor Body, self-retaining. Use 50-1342, 50-1343 blades with 50-1249 Lumbar Retractor.		
	Length	9″	(229mm)
	Total opening	5″	(127mm)



SPINAL

RETRACTORS, MICROSURGICAL



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. Total Length 6″ [15.2cm]

	Blade Width	Blade Length
80-1650	1cm	5cm
80-1651	2cm	5cm
80-1652	1cm	7cm
80-1653	2cm	7cm

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	4¾″	(120mm)
Handle length	4⅝″	(117mm)
Tip width	9/32″	(8mm)
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)

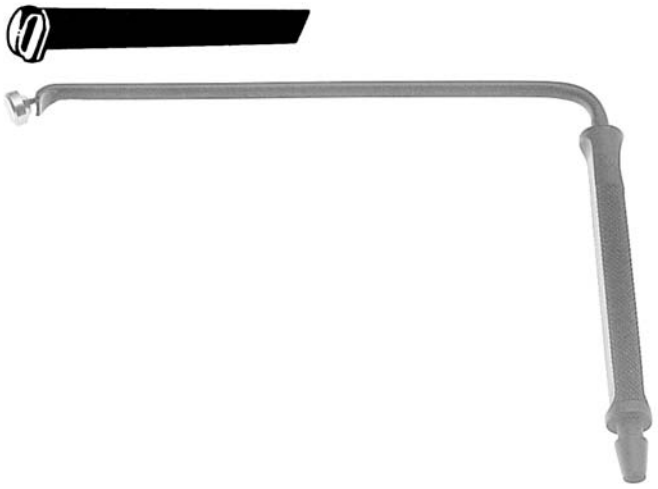
46-3013 BLACK 90° DURAL Suction Retractor (Standard Macro)
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction hole in handle. Blackened to reduce glare.

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)



RETRACTORS, 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	5¾″	(146mm)
Handle length	4⅝″	(117mm)
Tip width	⅜″	(9.5mm)
Tip depth	¼″	(6mm)



50-1326 CAMPBELL Nerve Root Retractor, malleable shaft.

Blade width	⅜″	(10mm)
Length	8½″	(216mm)



50-1209 CODMAN Flexible Nerve Root Retractor

Length	8½″	(210mm)
Blade length	1″	(26mm)
Blade width	5⁄16″	(8mm)



50-1270 D'ERRICO Nerve Root Retractor

Blade width	¼″	(6mm)
Length	9″	(229mm)

Codman



50-1331	HOLSHER Nerve Root Retractor		
	Blade width	5/16″	(7mm)
	Length	9¾″	(248mm)

50-1315	LOVE Nerve Root Retractors		
	Straight		
	Blade width	¼″	(6mm)
	Length	7⅝″	(194mm)
50-1316	90° angle		
	Blade width	¼″	(6mm)
	Shaft length	4″	(102mm)
	Handle length	3¾″	(95mm)
50-1317	135° angle		
	Blade width	¼″	(6mm)
	Shaft length	4″	(102mm)
	Handle length	3¼″	(95mm)





RETRACTORS, 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)



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)



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)

RETRACTORS, NERVE ROOT

50-1310	WEARY Nerve Root Retractor, black finish.		
	Blade width	7/16″	(11mm)
	Shaft length	5¾″	(146mm)
	Handle length	5¾″	(146mm)



RETRACTORS, SELF-RETAINING

	CASPAR Retractor for Spine		
32-3640	Set (includes the following)		
32-3641	Body Max Opening 14.5cm Width 12.5cm × 16.5cm		
	Blade	Length	Width
32-3642	L/R, 2 Prong	3.2cm	2.2cm
32-3643	L/R, 2 Prong	3.7cm	2.2cm
32-3644	L/R, 2 Prong	4.2cm	2.2cm
32-3645	L/R, 2 Prong	4.7cm	2.2cm
32-3646	L/R, 2 Prong	5.2cm	2.2cm
32-3647	L/R, 2 Prong	5.7cm	2.2cm
32-3648	L/R, 2 Prong	6.2cm	2.2cm
32-3649	L/R, 2 Prong	6.7cm	2.2cm
32-3650	CTR, 1 Prong	3.8cm	
32-3651	CTR, 1 Prong	5.8cm	
32-3668	Set Driver		







RETRACTORS, SELF-RETAINING



		Blade Length		Blade Width	
	HENLY Retractor				
32-3652	Complete Set, (3 Pair Side Blades, 4 Ctr Blades)				
32-3653	Body, Max Opening 80mm Handle Length 7″ (17.8cm)				
32-3654	Blade, CTR	5/8″	(1.6cm)	3/4″	(1.9cm)
32-3655	Blade, CTR	5/8″	(1.6cm)	1″	(2.5cm)
32-3656	Blade, CTR	5/8″	(1.6cm	1 1/4″	(3.2cm)
32-3657	Blade, L/R, Pair	1″	(2.5cm)	1″	(2.5cm)
32-3658	Blade, L/R, Pair	1″	(2.5cm)	2″	(5.1cm)
32-3659	Blade, L/R, Pair	7/8″	(2.2cm)	3″	(7.6cm)

RETRACTOR, TISSUE



50-1223

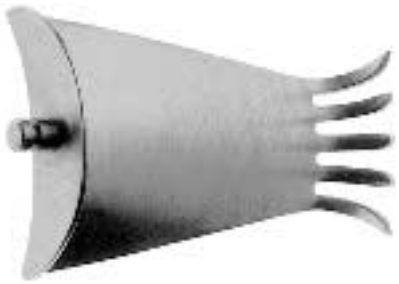


50-1224

	CODMAN Tissue Retractors		
	Length	5 1/4″	(133mm)
	Total opening	2 1/2″	(64mm)
50-1223CO	3x3 blunt prongs		
	Prong width	1/2″	(13mm)
	Prong depth	5/8″	(16mm)
50-1224CO	1x1 blunt prongs		
	Prong depth	1/2″	(13mm)

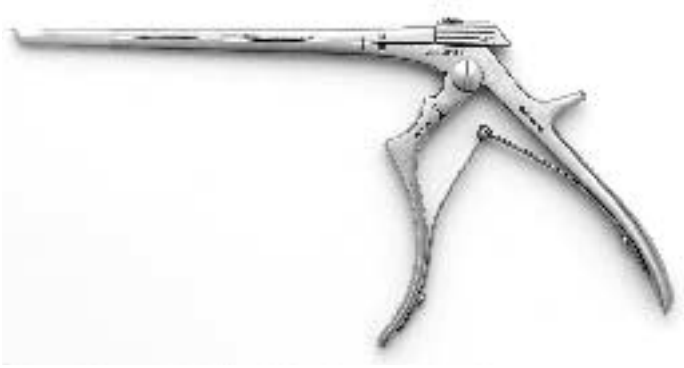
RETRACTOR, BLADES

	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)

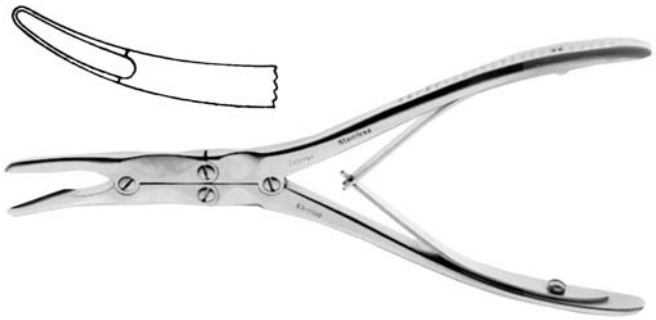


RONGEUR, CERVICAL, DETACHABLE

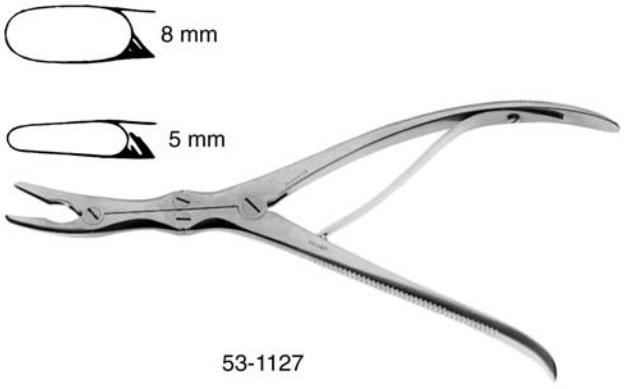
	RAPIDCLEAN™ Detachable Cervical Rongeurs		
	Bite Size	Angle	Length
53-1544CD	3 mm	40° UP	7″ (177.8 mm)
53-1545CD	3 mm	90° UP	7″ (177.8 mm)
53-1552CD	3 mm	40° UP	9″ (228.6 mm)
53-1553CD	3 mm	90° UP	9″ (228.6 mm)
53-1560CD	3 mm	40° UP	6″ (152 mm)
53-1561CD	3 mm	90° UP	6″ (152 mm)
53-1546CD	4 mm	40° UP	7″ (177.8 mm)
53-1547CD	4 mm	90° UP	7″ (177.8 mm)
53-1554CD	4 mm	40° UP	9″ (228.6 mm)
53-1555CD	4 mm	90° UP	9″ (228.6 mm)
53-1562CD	4 mm	40° UP	6″ (152 mm)
53-1563CD	4 mm	90° UP	6″ (152 mm)
53-1540CD	1 mm	40° UP	7″ (177.8 mm)
53-1541CD	1 mm	90° UP	7″ (177.8 mm)
53-1548CD	1 mm	40° UP	9″ (228.6 mm)
53-1549CD	1 mm	90° UP	9″ (228.6 mm)
53-1556CD	1 mm	40° UP	6″ (152 mm)
53-1557CD	1 mm	90° UP	6″ (152 mm)
53-1542CD	2 mm	40° UP	7″ (177.8 mm)
53-1543CD	2 mm	90° UP	7″ (177.8 mm)
53-1550CD	2 mm	40° UP	9″ (228.6 mm)
53-1551CD	2 mm	90° UP	9″ (228.6 mm)
53-1558CD	2 mm	40° UP	6″ (152 mm)
53-1559CD	2 mm	90° UP	6″ (152 mm)



RONGEURS, BONE, DOUBLE ACTION



53-1100	BEYER Rongeur, curved, double-action.		
	Bite	1/16″	(2.5mm)
	Length	7″	(178mm)



53-1127



53-1128

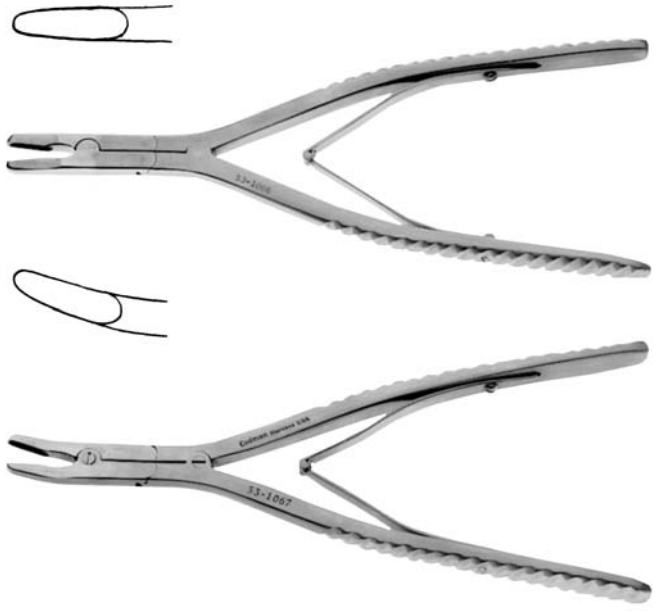
	CODMAN LEKSELL Laminectomy Rongeurs, double-action.		
53-1125	Regular curve, wide jaw		
	Bite		8mm
	Length	9″	(229mm)
53-1126	Full curve, wide jaw		
	Bite		8mm
	Length	9″	(229mm)
53-1127	Regular curve, narrow jaw		
	Bite		5mm
	Length	9″	(229mm)
53-1128	Full curve, narrow jaw		
	Bite		5mm
	Length	9″	(229mm)

RONGEURS, BONE, DOUBLE ACTION

	ECHLIN Laminectomy Rongeurs, double-action, angular		
	Length	8¾″	(222mm)
53-1045	Bite		2mm
53-1046	Bite		3mm
53-1047	Bite		4mm



	FULTON Laminectomy Rongeurs, cup size 15mm x 16mm narrow blade, double-action.		
	Length	7½″	(191mm)
53-1060	Straight		
53-1061	Slightly curved		
	Length	9½″	(241mm)
53-1066	Straight		
53-1067	Slightly curved		

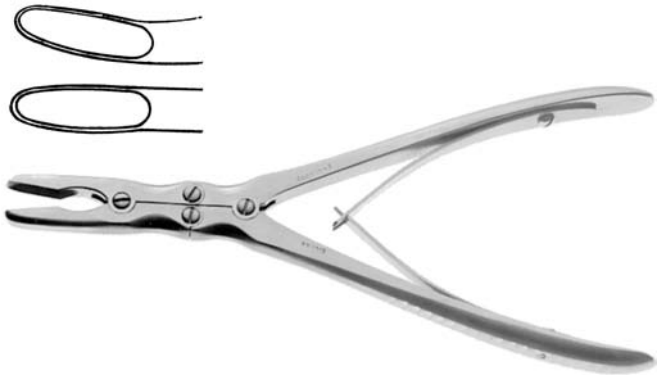


30-1290	RUSKIN Bone Cutting Forceps, double-action.		
	Length	7¼″	(184mm)



SPINAL

RONGEURS, BONE, DOUBLE ACTION



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		



30-1298 STILLE-HORSLEY Bone Cutting Forceps, double-action, curved shaft, angular jaw.
Length 10½″ (267mm)



STILLE-LISTON Bone Cutting Forceps, double-action.

	Length	10½″	(267mm)
30-1295	Straight		
30-1296	Curved		

RONGEURS, BONE, DOUBLE ACTION

	STILLE-LUER Rongeurs		
	Bite		10mm
	Length	8½″	(216mm)
53-1130	Straight		
53-1131	Curved		
	Bite		5mm
	Length	9½″	(229mm)
53-1133	Angular		
53-1118	Angular, flat lower jaw		



	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 curve		



53-1095	ZAUFAL-JANSEN Rongeur, double-action, curved.		
	Bite		(4mm x 30mm)
	Length	6¾″	(171mm)



SPINAL

RONGEURS, BONE, SINGLE ACTION



53-1040 ADSON Cranial Rongeur, straight.

Bite		(8mm)
Length	8″	(203mm)



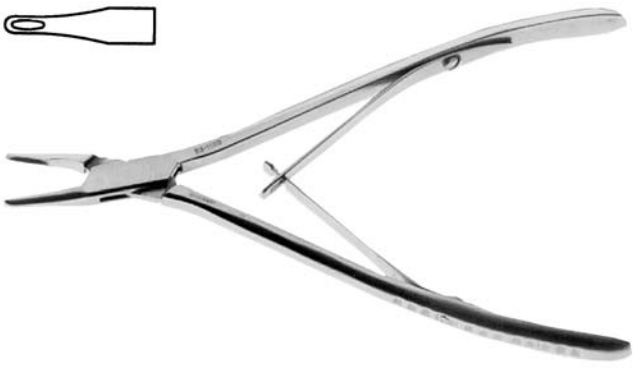
53-1035 BACON Cranial Rongeur, angular.

Bite	3/16″	(5mm)
Length	7 3/4″	(197mm)



53-1102 BEYER LEMPERT Rongeur, curved.

Bite	1/16″	(2mm)
Length	6 1/8″	(156mm)



53-1108 LEMPERT Rongeur, straight.

Bite	1/16″	(2mm)
Length	6 1/8″	(156mm)

RONGEURS, BONE, SINGLE ACTION

30-1310	LISTON Bone Cutting Forceps		
	Length	5½″	(140mm)



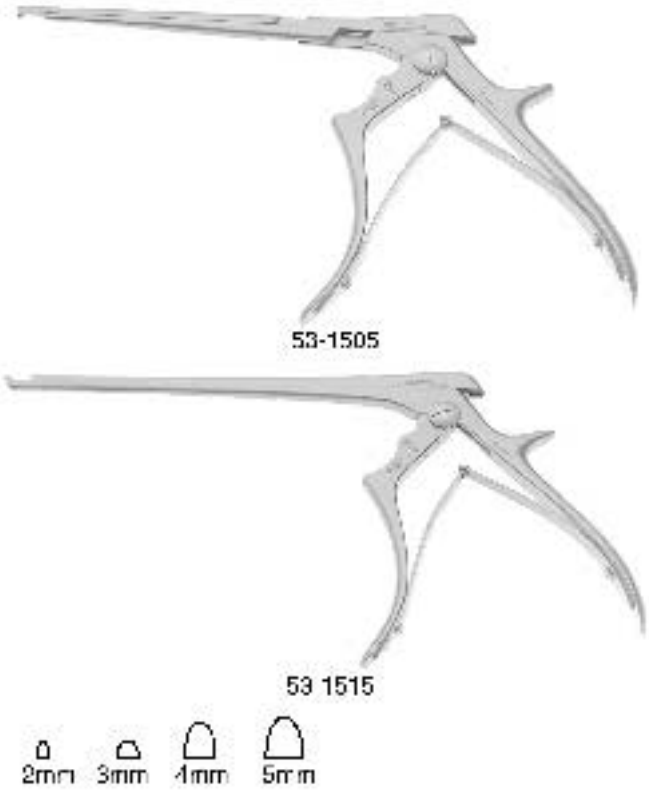
	LUER Bone Rongeurs		
	Bite	¼″	(6mm)
	Length	7″	(178mm)
53-1010	Straight		
53-1011	Curved		



	REINER Bone Rongeurs, curved.		
	Length	7″	(178mm)
53-1015	Bite		(3mm x 13mm)
53-1016	Bite		(4mm x 14mm)



RONGEURS, CERVICAL, KERRISON



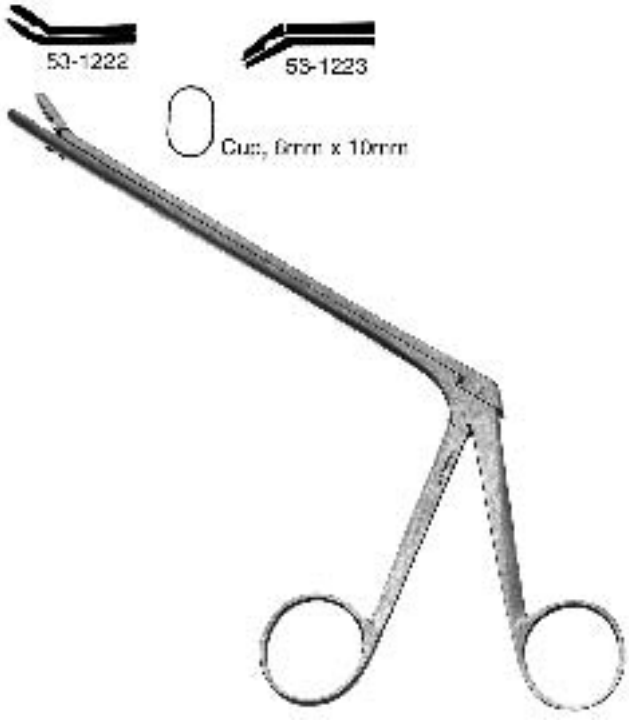
CLASSIC Thin Footplate Cervical Kerrison Rongeur
Thin footplate designed to easily fit under the cervical lamina. Gold screw for easy identification of thin footplate. Bite size is identified below gold screw. Hardy style handle with ball spring.

	Bite Size	Angle	Shaft Length
53-1500C	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)



67-7324	CLOWARD OPTI-LENGTH Rongeur, IVD, 6X10 Cup		
	Length	11″	(27.9cm)

	CODMAN Intervertebral Disc Rongeurs		
	Cup		6x10mm
	Shaft length	6″	(152mm)
53-1221	Straight		
53-1222	Curved up		
53-1223	Curved down		



RONGEURS, IVD



	CODMAN Intervertebral Disc Rongeurs		
	Shaft length	7″	(178mm)
53-1171	Cup	4x8mm	
53-1220	Cup	6x10mm	
53-1225	Cup	6x12mm	

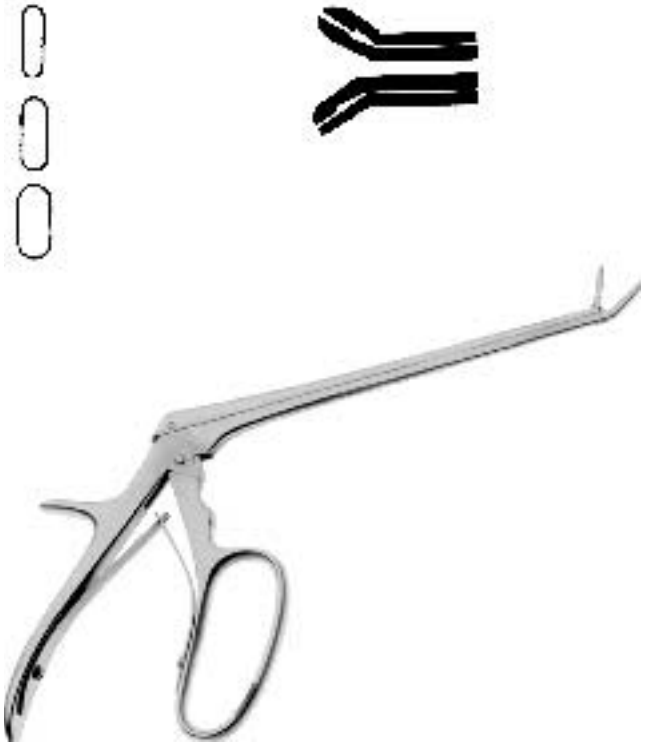


	CUSHING Intervertebral Disc Rongeurs, cup shaped jaws.		
	Cup		2 x 10mm
53-1290	Straight		
	Shaft length	5″	(127mm)
53-1291	Curved up		
	Shaft length	5″	(127mm)
53-1292	Curved down		
	Shaft length	5″	(127mm)
53-1195	Straight		
	Shaft length	6″	(152mm)
53-1196	Curved up		
	Shaft length	6″	(152mm)
53-1197	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		



	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		



RONGEURS, IVD



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
	Shaft length	5″	(127mm)
53-1295	Straight		
53-1296	Curved up		
53-1297	Curved down		
	Shaft length	6″	(152mm)
53-1200	Straight		
53-1201	Curved up		
53-1202	Curved down		
	Shaft length	7″	(178mm)
53-1235	Straight		
53-1236	Curved up		
53-1237	Curved down		

LOVE-GRUENWALD OPTI-LENGTH
Rongeur, IVD
Length 11″ (27.9cm)

67-7319 Straight, 3X10 Cup
67-7320 300 up bite, 3x10 Cup





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 Intervetebral 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

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)



RONGEURS, IVD



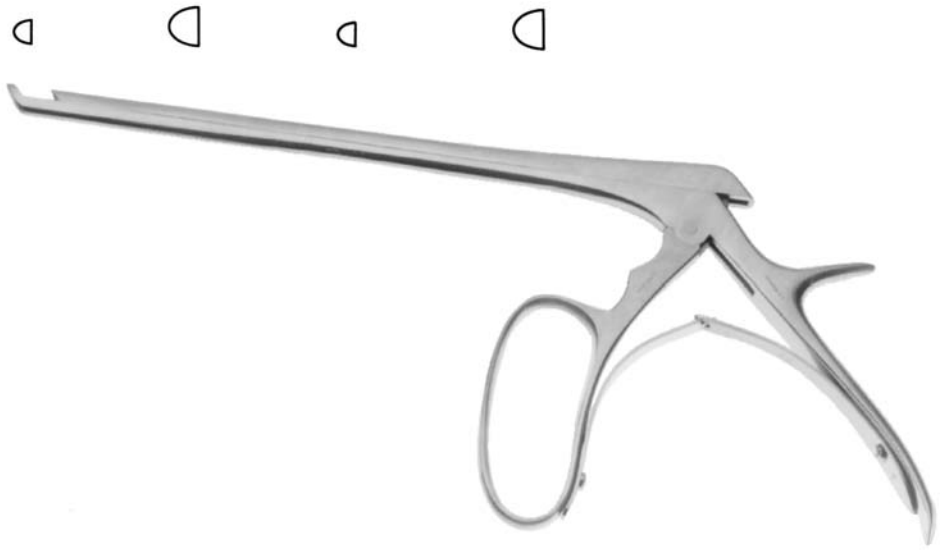
	SPURLING Intervertebral Disc Rongeurs		
	Cup		4 x 10mm
	Shaft length	5″	(127mm)
53-1300	Straight		
	Shaft length	6″	(152mm)
53-1210	Straight		
53-1211	Curved up		
53-1212	Curved down		
	Shaft length	7″	(178mm)
53-1240	Straight		
53-1241	Curved up		
53-1242	Curved down		

	SPURLING OPTI-LENGTH Rongeur, IVD		
	Length	11″	(27.9cm)
67-7321	Straight, 4X10 Cup		
67-7322	Up Biting, 4X10 Cup		



	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, LAMINECTOMY



	CODMAN Laminectomy Rongeurs, 40° angle.		
	Shaft length	6⅞″	(175mm)
51-1085	Bite		3mm
51-1086	Bite		5mm
	Shaft length	8	(203mm)
51-1087	Bite		3mm
51-1088	Bite		5mm

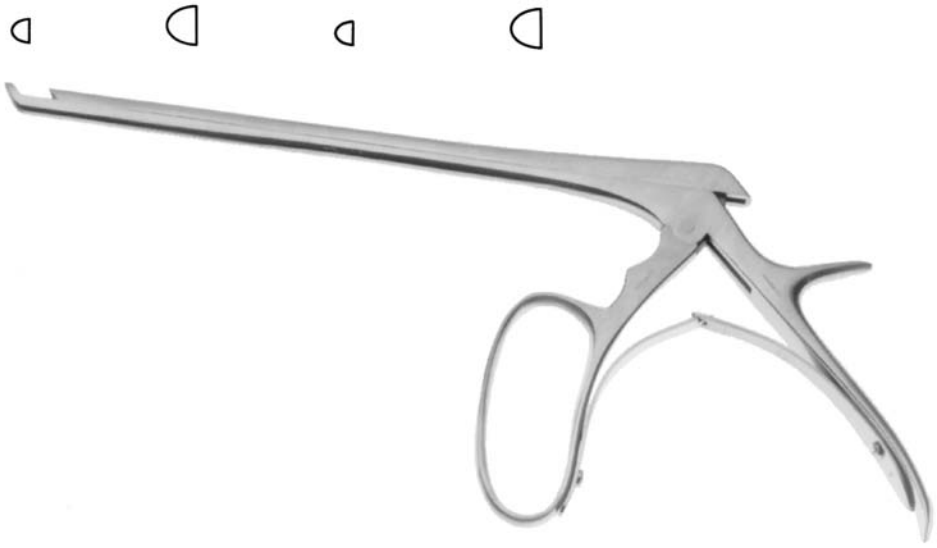
RONGEURS, LAMINECTOMY, KERRISON

	CODMAN KERRISON Laminectomy Rongeurs 40° Up biting		
	Shaft length	6″	(152mm)
53-1385	Bite		3mm
53-1386	Bite		5mm
	Shaft length	7½″	(191mm)
53-1387	Bite		3mm
53-1388	Bite		5mm



SPINAL

RONGEURS, LAMINECTOMY, KERRISON



	CODMAN Laminectomy Rongeurs, 40° angle.		
	Shaft length	6⅞	(175mm)
51-1085	Bite		3mm
51-1086	Bite		5mm
	Shaft length	8	(203mm)
51-1087	Bite		3mm
51-1088	Bite		5mm

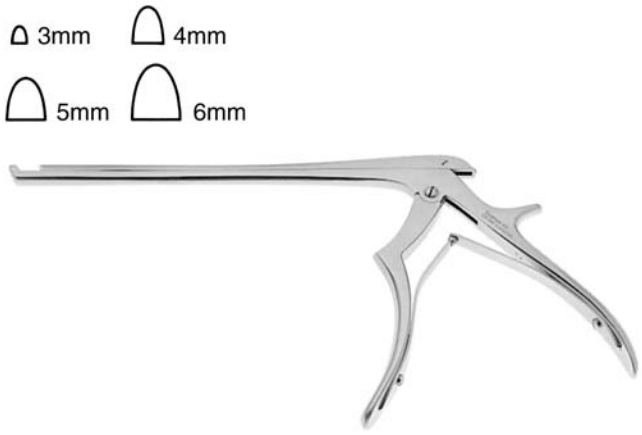




	CODMAN KERRISON Laminectomy Rongeurs		
	Up biting		
	Shaft length	6″	(152mm)
53-1370	Bite		3mm
53-1371	Bite		5mm
	Shaft length	7½″	(191mm)
53-1372	Bite		3mm
53-1373	Bite		5mm
	Down biting		
	Shaft length	6″	(152mm)
53-1374	Bite		3mm
53-1375	Bite		5mm
	Shaft length	7½″	(1912mm)
53-1376	Bite		3mm
53-1377	Bite		5mm

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)





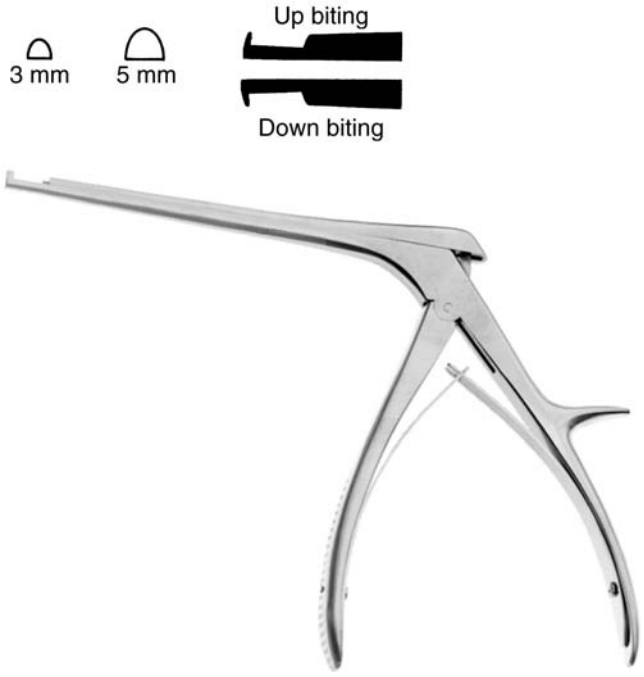
KERRISON OPTI-LENGTH Rongeur, Lumbar

		Length	
67-7267	2mm 40° up bite	10″	(25.4cm)
67-7270	3mm 40° up bite	10″	(25.4cm)
67-7273	4mm 40° up bite	10″	(25.4cm)
67-7276	5mm 40° up bite	10″	(25.4cm)
67-7282	2mm 40° up bite	12″	(25.4cm)
67-7285	3mm 40° up bite	12″	(30.5cm)
67-7288	4mm 40° up bite	12″	(30.5cm)

RONGEURS, LUMBAR, KERRISON



	KERRISON OPTI-LENGTH Rongeur, Lumbar		
	Length	15″	(38.1cm)
67-7325	1mm 40° up bite		
67-7326	2mm 40° up bite		
67-7327	3mm 40° up bite		
67-7328	4mm 40° up bite		
67-7329	6mm 40° up bite		
67-7330	1mm 90° up bite		
67-7331	2mm 90° up bite		
67-7332	3mm 90° up bite		
67-7333	4mm 90° up bite		
67-7334	6mm 90° up bite		



	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



	FERRIS SMITH-KERRISON Laminectomy Rongeurs		
	Bite		5mm
	Shaft length	7½″	(191mm)
53-1157	Up biting		
53-1158	Down biting		



	RANEY Laminectomy Rongeurs		
	Bite		7mm
51-1065	Shaft length	6″	(152mm)
51-1066	Shaft length	7½″	(191mm)

RONGEUR, LUMBAR, DETACHABLE



53-1612LD



53-1618LED



53-1624LD



53-1630LED



53-1636LED



53-1645LED



53-1651LED



53-1615LED



53-1621LED



53-1627LED



53-1633LED



53-1642LD



53-1648LED



	RAPIDCLEAN™ Detachable Lumbar Kerrison Rongeur		
	Bite Size	Angle	Shaft Length
53-1612LD	Lumbar Kerrison Rongeur, Detachable		
	2MM	40° up	7"
53-1615LED	Lumbar Kerrison Rongeur, Ejector, Detachable		
	3MM	40° up	7"
53-1618LED	Lumbar Kerrison Rongeur, Ejector, Detachable		
	4MM	40° up	7"
53-1621LED	Lumbar Kerrison Rongeur, Ejector, Detachable		
	5MM	40° up	7"
53-1624LD	Lumbar Kerrison Rongeur, Detachable		
	2MM	40° up	8"
53-1627LED	Lumbar Kerrison Rongeur, Ejector, Detachable		
	3MM	40° up	8"
53-1630LED	Lumbar Kerrison Rongeur, Ejector, Detachable		
	4MM	40° up	8"
53-1633LED	Lumbar Kerrison Rongeur, Ejector, Detachable		
	5MM	40° up	8"
53-1636LED	Lumbar Kerrison Rongeur, Ejector, Detachable		
	6MM	40° up	8"
53-1642LD	Lumbar Kerrison Rongeur, Detachable		
	2MM	40° up	9"
53-1645LED	Lumbar Kerrison Rongeur, Ejector, Detachable		
	3MM	40° up	9"
53-1648LED	Lumbar Kerrison Rongeur, Ejector, Detachable		
	4MM	40° up	9"
53-1651LED	Lumbar Kerrison Rongeur, Ejector, Detachable		
	5MM	40° up	9"
53-1654LED	Lumbar Kerrison Rongeur, Ejector, Detachable		
	6MM	40° up	9"
53-1660	Sterilization Tray		



53-1660



RONGEUR, KERRISON

32-3426 SPURLING-KERRISON Rongeur, Up Cut 40°

Bite	3mm	
Length	8″	(20.3cm)



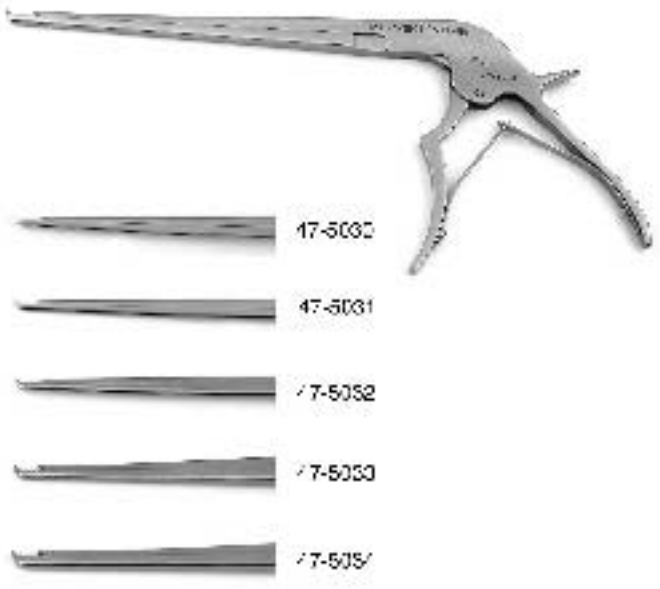
RONGEURS, RIB



56-8040 DALE First Rib Rongeur, double-action.

Bite	1/8″	3mm
Length	14½″	(368mm)

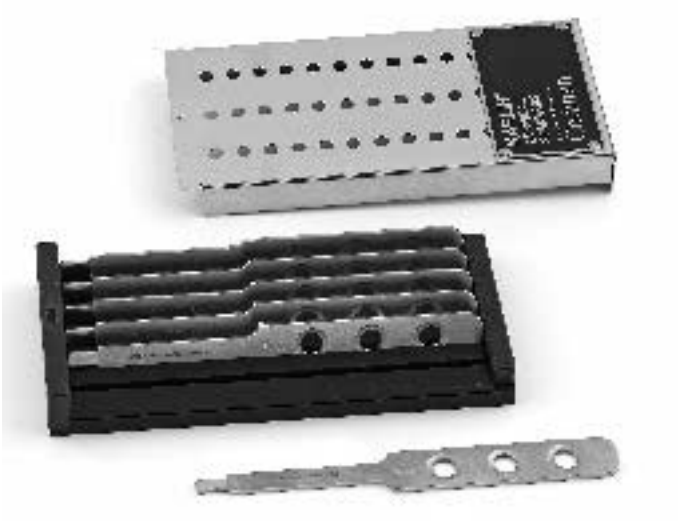
RONGEURS, SHAVERS



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

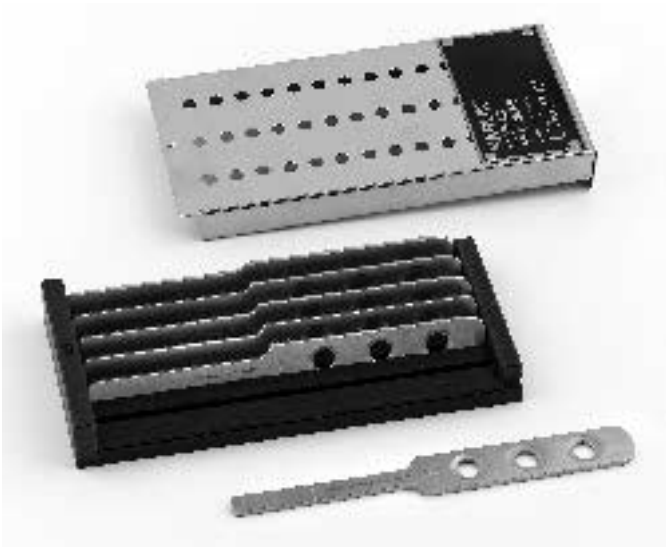
SPANNERS, CERVICAL



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	

SPANNERS, LUMBAR

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	
46-3047	Case for Cervical Spanners	



SPREADERS

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	1⅛″	(28mm)



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)

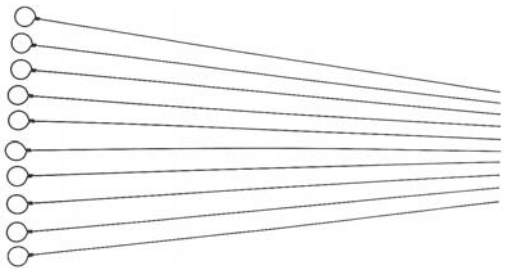
SPREADERS, VERTEBRA

61-1004	CODMAN Vertebra Spreader #1, with ratchet.		
	Total length	5″	(127mm)
	Total opening	¾″	(19mm)
61-1005	CODMAN Vertebra Spreader #2, with ratchet.		
	Total length	3″	(76mm)
	Total opening	1½″	(38mm)



STYLETS

46-4000	Wire Stylets used with Dural Suction Retractors for cleaning and storage.



SUCTION, RETRACTOR



80-1655	WILLIAMS Microlumbar Discectomy Suction Retractor		
	Tube diameter	16 Fr.	
	Length	6″	(152mm)

TAMP, BONE



	Tamp, Bone, Round, Cross-Serrated Tip, Length 6¼″ (15.8cm)
	Tip Width
32-3450	0.2cm
32-3451	0.3cm
32-3452	0.4cm
32-3453	0.5cm
32-3454	0.6cm
32-3455	0.8cm
32-3456	1.0cm

TRANSORAL INSTRUMENTS, CROCKARD



50-1654	CROCKARD 90° Retractor Blade		
	Total length	5″	(127mm)
	Blade length	1.5″	(38mm)
	Blade width	.8″	(20mm)



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)

TRANSORAL INSTRUMENTS, CROCKARD

50-1655 CROCKARD Curved Retractor Blade\

Total length	5″	(127mm)
Blade length	1½″	(38mm)
Tip width	½″	(12mm)



50-1659 CROCKARD Hard Palate Retractor

Total length	4¼″	(108mm)
Tip width	1″	(25mm)



50-1663 CROCKARD Ligament Grasping Forceps

Length	10″	(254mm)



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)



SPINAL

TRANSORAL INSTRUMENTS, CROCKARD



50-1662	CROCKARD Odontoid Peg Grasping Forceps		
	Length	9″	(228mm)



	CROCKARD Pharyngeal Retractor		
50-1660	Small		
	Length	7″	(177mm)
50-1661	Large		
	Length	7½″	(190mm)



50-1656	CROCKARD Retractor Blade Connector		
	Total Length	1¼″	(31mm)
	Diameter	.28″	(7mm)



50-1657

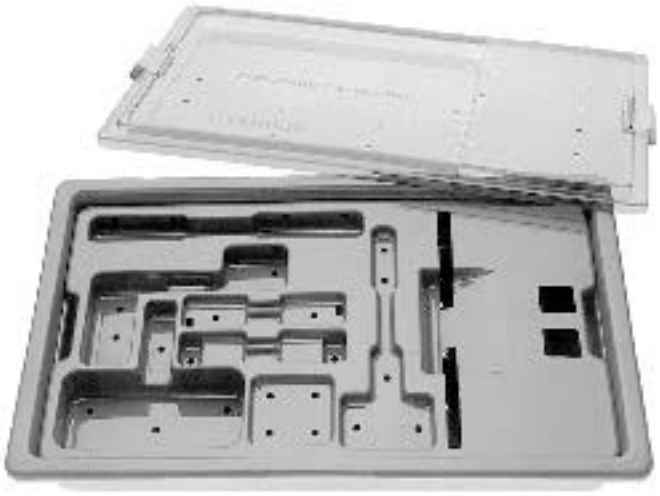


50-1658

	CROCKARD Suction Tube Holder		
	Diameter	.28	(7mm)
50-1657	Short		
	Length	1½″	(38mm)
50-1658	Long		
	Length	2″	(50mm)

TRANSORAL INSTRUMENTS, CROCKARD

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



	CROCKARD Tongue Retractor Blade		
	Length	6″	(152mm)
50-1652	Large		
	Blade length	3.5″	(91mm)
50-1653	Small		
	Blade length	3″	(76mm)



SPINAL

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 C_3 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	

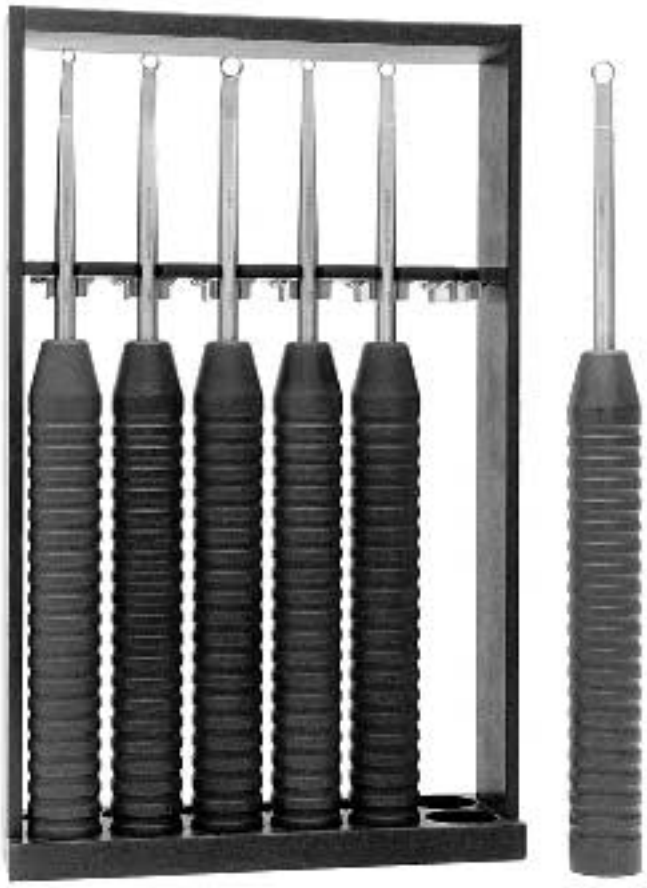


50-1651	CROCKARD Transoral Retractor Body		
	Length	6″	(152mm)
	Width	2¾″	(70mm)

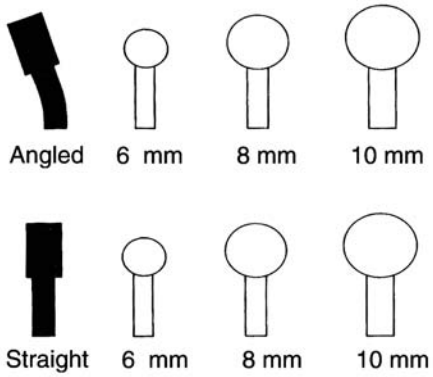
21-1003	SPINAL FUSION CURETTE Storage and Sterilizing Case, holds nine sizes of curettes 23-1061 through 23-1069.		
	Width	7¼″	(184mm)
	Length	11¾″	(299mm)
21-1022	SPINAL FUSION CURETTE Storage and Sterilizing Case, holds nine sizes of curettes.		
	Width	7¼″	(184mm)
	Length	9¾″	(248mm)



TRAYS, CURETTES



46-3222 Storage/Sterilizing Case for 12
XL MAGNUM Instruments



Codman

TRAYS, STERILIZING, LIGHTWEIGHT INSTRUMENTS

CODMAN's Micro Osseous Dissection instruments are 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.

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

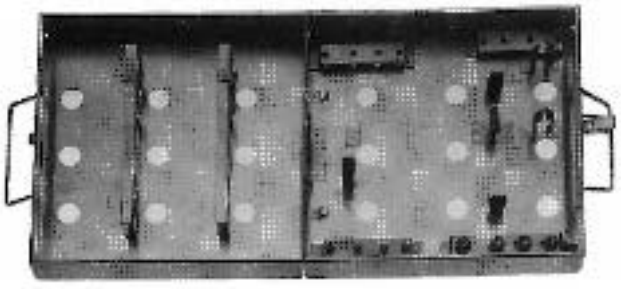
Working Distance: 3″ (76mm)

46-2605	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 Osseous Dissection Instruments



21-1001 CODMAN Instrument Case for Anterior Cervical Fusion Instruments

Width	9″	(229mm)
Depth	2⅝″	(67mm)
Length	9″	(229mm)



SPINAL

TRAYS, STERILIZING, STAINLESS STEEL MISCELLANEOUS, SPINAL



21-2500 CODMAN Gouge and Osteotome Case, holds seven SMITH-PETERSEN gouges or osteotomes.

Length	9″	(229mm)
Width	6⅞″	(175mm)
Depth	2¼″	(57mm)



21-1020 CODMAN Sterilizing and Carrying Case. Holds eight assorted 11″ (279mm) gouges or osteotomes.

Length	11″¾″	(298mm)
Width	8⅞″	(225mm)
Depth (on each side)	1¼″	(32mm)

Codman

TRAYS, STERILIZING, STAINLESS STEEL MISCELLANEOUS, SPINAL

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:	⅝″ (16mm)

Note: Instruments not included



WAXER

46-3173 Cervical Bone Waxer
Length 8½″ (21 cm)



46-2648 XL Cervical Bone Waxer

Instrument length	9½″	(24 cm)
Working distance	4.1″	(10.4 cm)



46-3143 Bone Waxer
Length 9½″ (24.13 cm)



SPINAL



NEUROSURGICAL

METRIC
INCHES
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

APPLIER, SCALP CLIP

	LeROY Scalp Clip Applying Forceps		
20-5117	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)

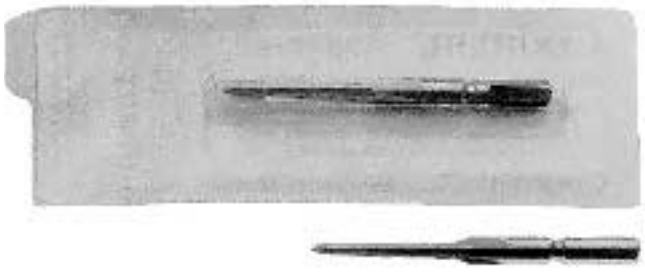


20-5115	RANEY Scalp Clip Applying Forceps, use with 20-1037 or 20-1025 RANEY clips.		
	Length	6¼″	(159mm)



BLADES, CRANIO

26-1246	CODMAN Cranio-blade. Sterile, disposable, package of five.



CLAMP, ARTERY



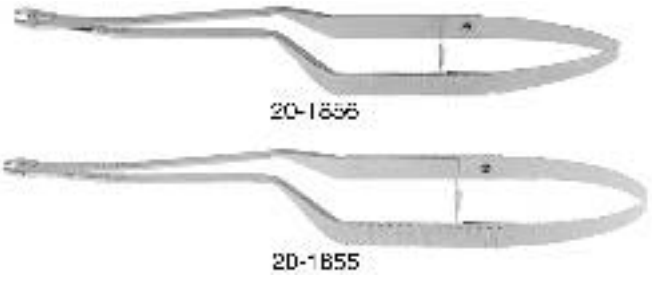
SCHWARTZ Temporary Intracranial Artery Clamps, 301 stainless steel, sold six per package. Use with 20-5008 SCHWARTZ Temporary Clamp Applying Forceps only. Approximate closing pressure over 500 gms.

	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 7¾″ (197mm)

CLIPS, ANEURYSM



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

29-1002 BUCY-FRAZIER Cautery Cord
Length 11’ (3.35m)



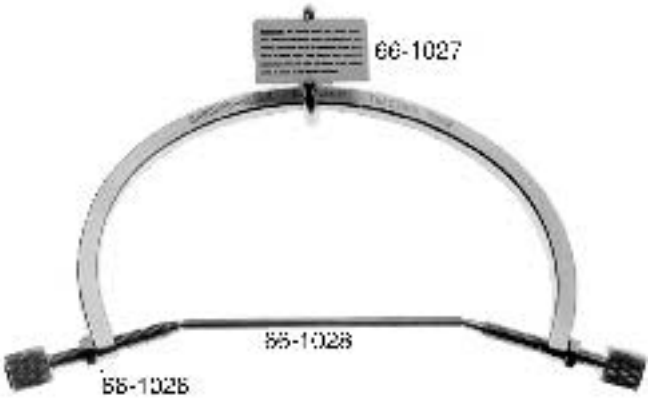
29-1001 FRAZIER Cautery Cord, with plug to fit standard Bovie.
Length 12’ (3.66m)



29-1003 FRAZIER Cautery Cord, with plug to fit CSV Bovie.
Length 12’ (3.66m)

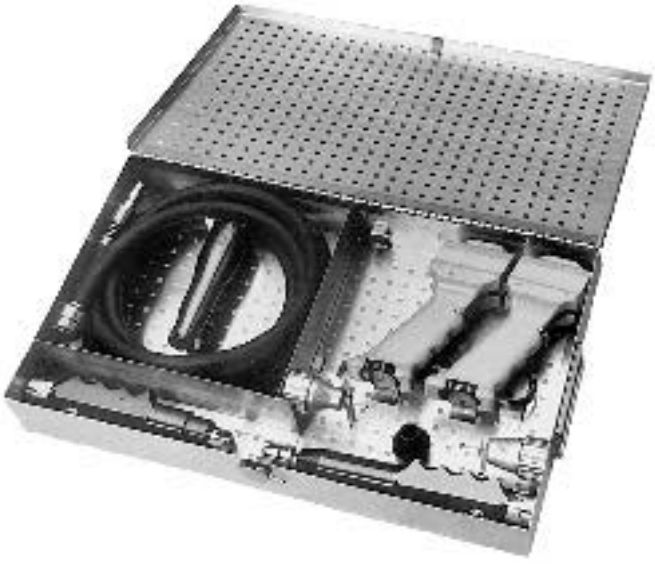


CRANIAL STABILIZATION, SKULL TONGS



66-1025	Codman 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		

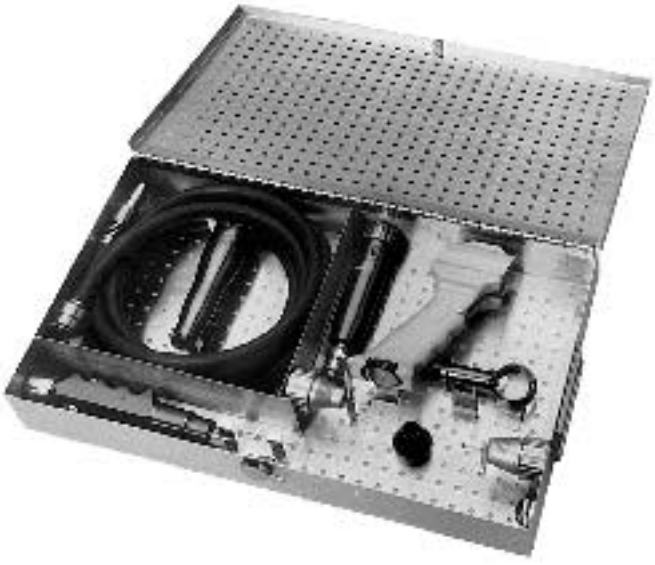
CRANIOTOME AIR DRIVER SET



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, stainless steel, holds either a Unitized or Modular Air Craniotome Set		
	Length	17½″	(44cm)
	Width	10″	(25cm)
	Depth	2½″	(6cm)

CRANIOTOME AIR DRIVER SET

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
26-5012	Stabilizing Handle
26-5007	Air Hose, 10 Feet
26-5015	Sterilizing Case



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

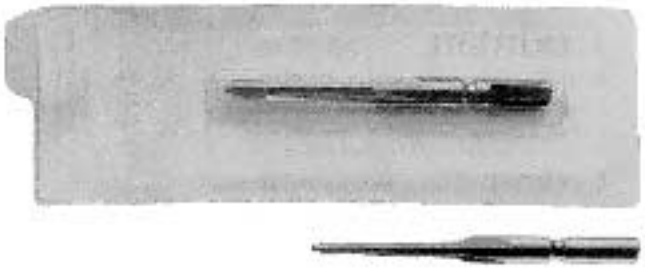
CRANIOTOME DRIVER, ACCESSORIES



26-5024 CODMAN Coaxial Air Hose, 100,000 RPM only.
Length 10 (3.0m)



26-5007 CODMAN Coaxial Air Hose, recommended for use with CODMAN Air Powered Equipment.
Length 10 (3.0m)



26-1246 CODMAN Cranio-blade. Sterile, disposable, package of five.

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.



NEUROSURGERY

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.



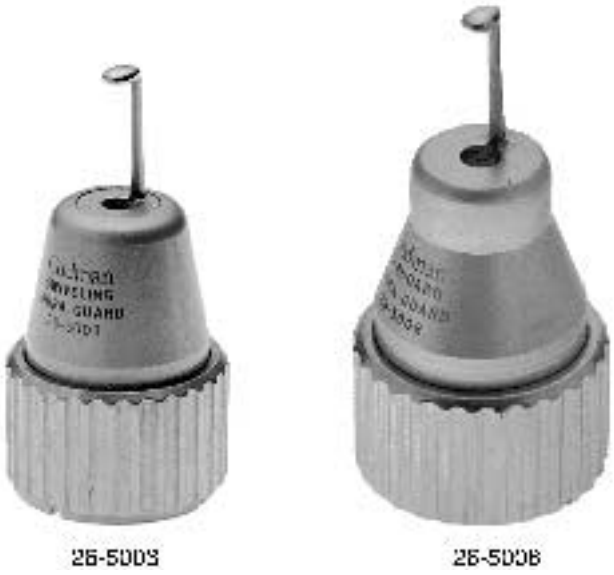
26-5026	CODMAN Lubricant. Recommended for use with CODMAN Powered Instrument. Sold one each.

CRANIOTOME DRIVER, ACCESSORIES

26-5006 CODMAN Nitrogen Regulator. Recommended for use with CODMAN Air Power System, includes color-coded pressure ranges marked on dial.



26-5003 CODMAN Swiveling Dura Guard, rotates 360°
26-5008 CODMAN Dura Guard, fixed stem.



26-5012 CODMAN Stabilizing Handle, to be used with 26-5002, 1,000 RPM Modular Attachment.



CRANIOTOME DRIVER, ACCESSORIES



26-5004 CODMAN Wire Pass Drill Guard



26-1247 CODMAN Wire Pass Drill, sterile. Disposable. Five per package.

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

CRANIOTOME DRIVERS

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



CURETTES

BRUNS Curette, hexagonal handle

	Length	9″ (22.9cm)
	Size	Cup
32-3400	000	3.2mm
32-3401	00	3.4mm
32-3402	0	3.7mm
32-3403	1	4.7mm
32-3404	2	5.7mm
32-3405	3	7.0mm
32-3406	4	8.4mm
32-3407	5	8.9mm
32-3408	6	10.2mm



CURETTES



	BRUNS, Curette, hollow handle		
	Length	9″	(22.9cm)
	Straight		
32-3470	0000	3mm	
32-3471	000	3.2mm	
32-3742	00	3.4mm	
32-3473	0	3.7mm	
32-3474	1	4.7mm	
32-3475	2	5.7mm	
32-3476	3	7.0mm	
32-3477	4	8.4mm	
32-3478	5	8.9mm	
32-3479	6	10.2mm	



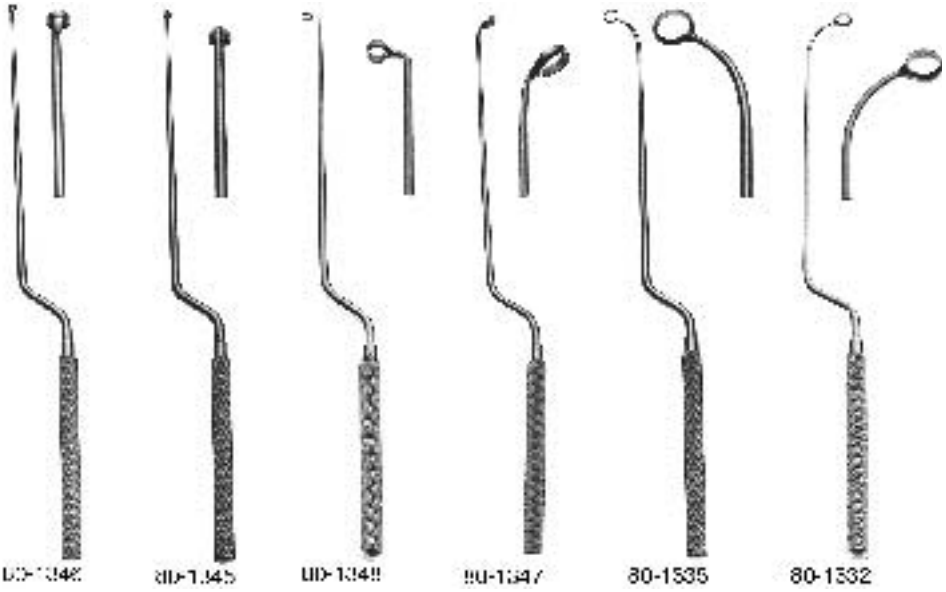
	Forward Angle	
32-3480	0000	0. 3cm
32-3481	000	3.3mm
32-4282	00	3.9mm
32-4283	0	4.5mm
32-3484	1	5.3mm
32-3485	2	6.0mm
32-3486	3	7.2mm
32-3487	4	8.2mm
32-3488	5	9.8mm
32-3489	6	12.5mm



	Reverse Angle	
32-3490	0000	3mm
32-3491	000	3.2mm
32-3492	00	3.4mm
32-3493	0	3.7mm
32-3494	1	4.7mm
32-3495	2	5.7mm
32-3496	3	7.0mm
32-3497	4	8.4mm
32-3498	5	8.9mm
32-3499	6	10.2mm



	CASPAR Curette, square handle, reverse angle		
	Length	9¾″	(25cm)
32-3410	Tip Size	4mm	
32-3411	Tip Size	5mm	



HARDY Curettes, bayonet.

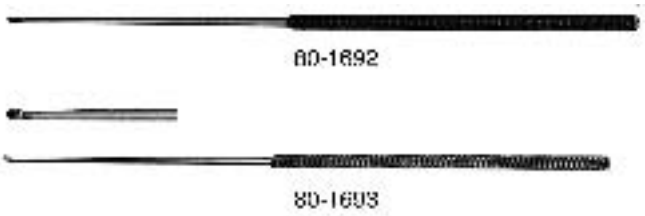
	Working distance	4¾″	(120mm)
	Total length	9¼″	(235mm)
	Type		Tip Width
80-1346	Angled up		3mm
80-1331	Angled up		5mm
80-1345	Angled down		3mm
80-1330	Angled down		5mm
80-1348	90° Left		3mm
80-1333	90° Left		5mm
80-1347	45° Right		3mm
80-1334	45° Right		5mm
80-1335	Curved left		5mm
80-1332	Curved right		5mm

80-1536 MALIS Curette, bayonet, titanium handle, stainless steel shaft.

Working distance	4″	(102mm)
Tip width		2mm
Length	8″	(203mm)



CURETTES



	RHOTON Curettes, titanium		
	Length	7½″	(191mm)
80-1692	No. 13 straight		
	Tip width		1.6mm
80-1693	No. 14, 25° angle		
	Tip width		1.4mm

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)

80-1535 MALIS Dissector, angled, curved edge, semi-sharp, titanium handle, stainless steel shaft.
Tip width 3.2mm
Length 7⅜″ (187mm)

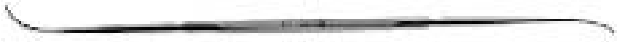
80-1539 MALIS Dissector, angled, sharp on three sides, titanium handle, stainless steel shaft.
Tip width 1.3mm
Length 7⅜″ (187mm)

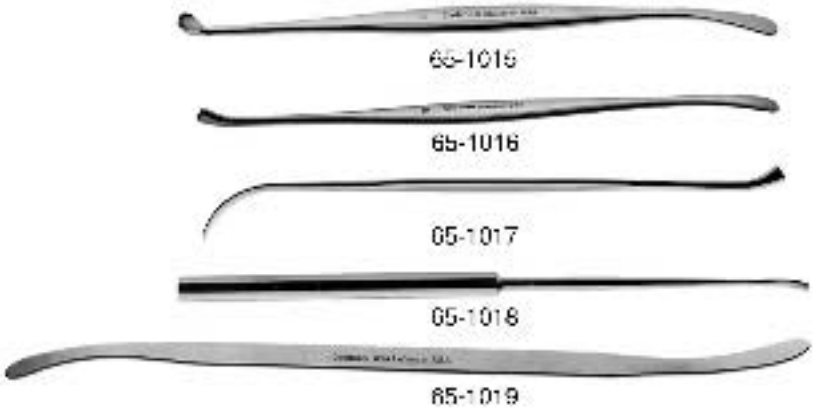
MALIS Dissectors, angled, round, titanium handle, stainless steel shaft.
Length 7⅜″ (187mm)

80-1540 Tip width 2mm
80-1541 Tip width 1mm
80-1542 Tip width 3.5mm



65-1038 MILLIGAN Dissector, double-ended.
Length 8½″ (216mm)
Tip sizes (14mm)
(16mm)





PENFIELD Dissectors

65-1015 Broad curved dissector, and sharp round spoon, double-ended.
Length 7″ (178mm)

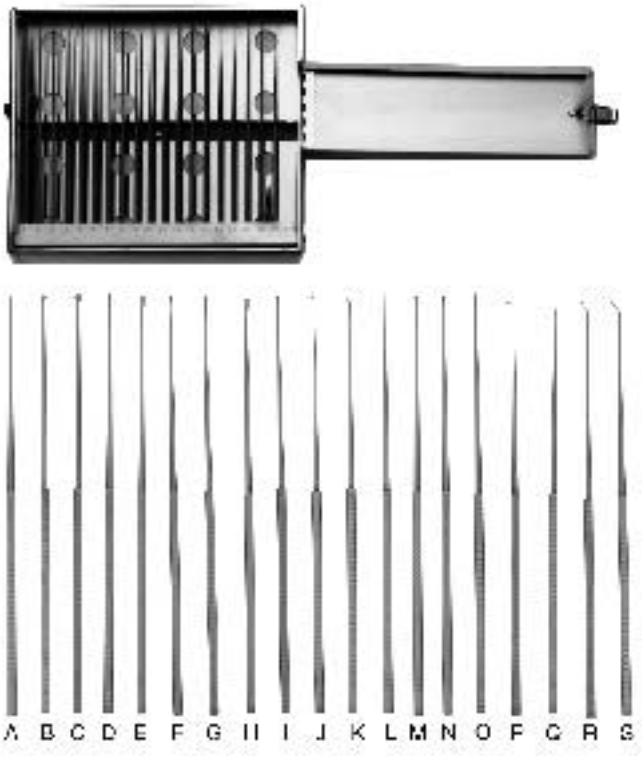
65-1016 Slightly curved dissector, and wax packer, double-ended.
Length 7¾″ (197mm)

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



80-1660 The RHOTON Micro Dissector Set is designed for use during aneurysm or tumor dissections, and has particular application for acoustic neuromas. Each instrument is made from titanium for purposes of balance, durability, and corrosion resistance. (Replaces 80-1695.)
RHOTON Micro Dissectors and Case

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, 40°, #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 Str., #15
Q. 80-1696	Teardrop Dissector, 90°, #16, 3mm tip
R. 80-1697	Teardrop Dissector, 90°, #17, 5mm tip
S. 80-1698	Teardrop Dissector, 40°, #18, 4mm tip
T. 80-1699	Teardrop Dissector, 40°, #19, 8mm tip

DISSECTORS, BAYONET



HARDY Knife Handle, bayonet.

	Working distance	3½″	(90mm)
	Total length	8 1/16″	(205mm)
80-1313	Vertical		
80-1314	Lateral		



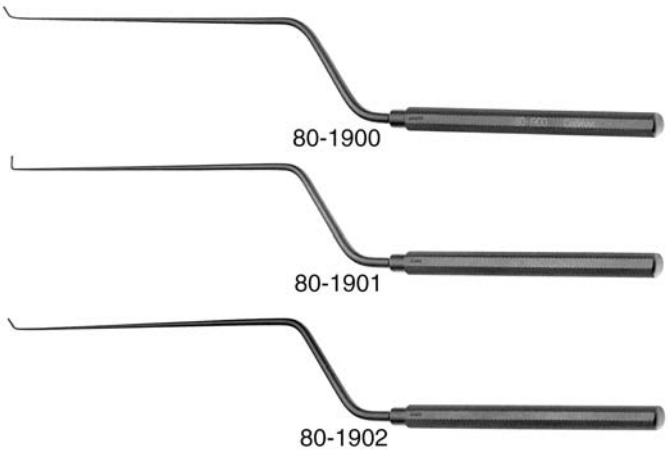
HARDY Micro Dissector, bayonet.

	Working distance	4¾″	(120mm)
	Length	9¼″	(235mm)
	Type		Tip Width
80-1315	Angled up		2.8mm
80-1316	Angled down		2.8mm

DISSECTORS, BAYONET

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°		



DISSECTORS/SEPARATORS

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)



DRILLS/BURRS/GUIDES

14-1000 ADSON Drill Guide and Dura Protector,
Angled on side with hole in jaw.

Jaw length	¾″	(19mm)
Hole diameter	⅛″	(3mm)
Total length	6″	(152mm)



DRILLS/BURRS/GUIDES



26-1080 BUNNEL Hand Drill with Jacobs chuck.
Chuck size 5/32″ (4mm)



26-1085 CHILDREN'S HOSPITAL Hand Drill, hexagonal handle, supplied with three (26-1086) twist drills.
Handle length 4 1/8″ (105mm)
Twist Drill diameter (4.2mm)



26-1247 CODMAN Wire Pass Drill, sterile. Disposable. Five per package.



CUSHING Burrs

15-1000C	Diameter	3/8″	(10mm)
	Length	3 1/2″	(89mm)
15-1001C	Diameter	5/8″	(15mm)
	Length	3 3/4″	(95mm)
15-1002C	Diameter	3/4″	(20mm)
	Length	4″	(102mm)

	CUSHING Perforator Drills		
26-1000	Diameter	3/8″	(9mm)
	Length	4″	(102mm)
26-1001	Diameter	1/2″	(13mm)
	Length	4″	(102mm)
26-1002	Diameter	5/8″	(16mm)
	Length	4″	(102mm)



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)



26-1006	D'ERRICO Perforator Drill and Enlarging Burr		
	Diameter	5/8″	(16mm)
	Length	3 5/8″	(92mm)



	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)











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 9¾″ (248mm)

80-1002 HUDSON Cerebellar Extension
Length 4″ (102mm)



26-1088 MATHEWS Hand Drill, with knurled shank and rotating head, supplied with one each size MATHEWS Drill points.
Length of handle 4½″ (114mm)
MATHEWS Drill Points
26-1180 Diameter 4mm
Length 1¼″ (32mm)
26-1181 Diameter 6mm
Length 1⅞″ (48mm)



15-1004 McKENZIE Enlarging Burr
Diameter 1 1/16″ (17mm)
Length 5″ (127mm)



26-1004 McKENZIE Perforator Drill, high-speed steel.
Diameter ½″ (13mm)
Length 3¾″ (94mm)



26-1008 RANEY Perforator Drill with adjustable depth guard.
Diameter ½″ (13mm)
Length 4″ (102mm)



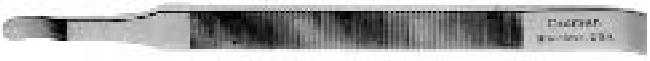
26-1086 TWIST DRILL for 26-1085
Diameter 5/16″ (4.2mm)
Length 3¼″ (83mm)



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)



65-2549	CARROLL Periosteal Elevator, double-ended.		
	Blade width	1/8″	(3mm)
	Blade width	3/8″	(10mm)
	Length	5½″	(140mm)



	CODMAN Periosteal Elevators, sharp.		
	Length	8″	(203mm)
	Tip width		
65-1056	3/16″		(5mm)
65-1057	¼″		(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)

CUSHING Little Joker Periosteal Elevators

65-1047 Hollow handle
Blade width ¼″ (6mm)
Length 6″ (152mm)

65-1048 Solid handle
Blade width ¼″ (6mm)
Length 7½″ (191mm)





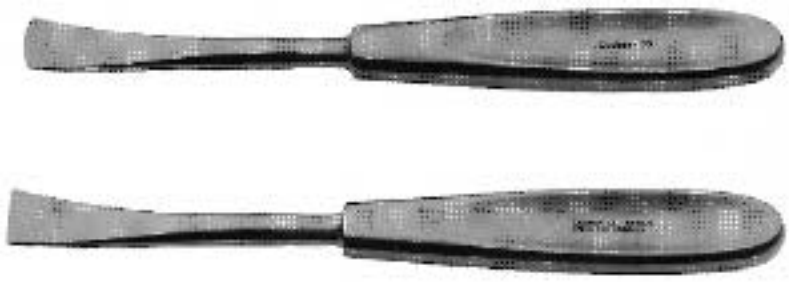
CUSHING Periosteal Elevators, sharp.

65-1050 Narrow
Blade width ¼″ (6mm)
Length 8⅛″ (206mm)

65-1051 Extra narrow
Blade width 3⁄16″ (5mm)

65-1092 CUSHING Periosteal Elevator, sharp, narrow, Gutsch handle.
Blade width 3⁄16″ (5mm)
Length 7⅝″ (194mm)





CUSHING Periosteal Elevators, sharp, wide.

65-1075 Rounded edge
Blade width ⅝″ (16mm)
Length 7¼″ (184mm)

65-1076 Square edge
Blade width ⅝″ (16mm)
Length 7¼″ (184mm)

ELEVATORS



65-1045	CUSHING Staphylorrhaphy Elevator		
	Round handle		
	Blade width	7/16″	(11mm)
	Length	8½″	(216mm)



65-1094	CUSHING-HOPKINS Periosteal Elevator,		
	Gutsch handle.		
	Blade width	7/16″	(11mm)
	Length	7⅝″	(194mm)



	HOEN Periosteal Elevators		
65-1001	No. 1 Blade width	5/16″	(8mm)
	Total length	7″	(178mm)
65-1002	No. 2 Blade width	⅝″	(15mm)
	Total length	7¼″	(184mm)
65-1003	No. 3 Blade width	¾″	(20mm)
	Total length	7½″	(191mm)



65-1080	IOWA UNIVERSITY Periosteal Elevator		
	Blade width	1 1/16″	(17mm)
	Length	7¼″	(184mm)



	KEY Periosteal Elevators		
	Total length	7½″	(191mm)
65-2510	Blade width	¼″	(6mm)
65-2511	Blade width	⅜″	(10mm)
65-2512	Blade width	½″	(13mm)
65-2513	Blade width	¾″	(19mm)
65-2514	Blade width	1″	(25mm)

LANGENBECK Periosteal Elevators

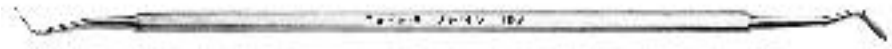
65-1115 Narrow
Blade width ¼″ (6mm)
Length 8¼″ (206mm)

65-1116 Wide
Blade width 1 1/16″ (17mm)
Length
7½″ (191mm)



65-1110 LOVE-ADSON Periosteal Elevator, semi-sharp.
Blade width 3/16″ (5mm)
Length 6½″ (165mm)





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 ⅛″ (3mm)
Blade Depth ½″ (13mm)
Total Length 10″ (254mm)
Length 7½″ (191mm)

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)



32-3420 MOLT, Periosteal Elevator #9
Length 7¼″ (18.5cm)



ELEVATORS



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



65-1008 SUNDAY Staphylorrhaphy Elevator, blunt, slightly curved.

	Blade width		(3mm)
	Length	9″	(229mm)



59-1000 WOODSON Elevator and Spatula, double-ended, semi-sharp.

	Blade width	⅛″	(3mm)
	Blade depth	½″	(13mm)
	Total length	10″	(254mm)

FORCEPS

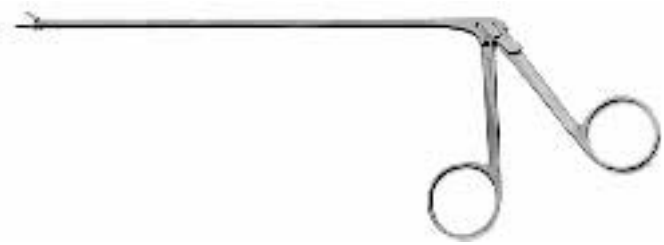


30-1194 PENFIELD Watchmaker Forceps.

	Tip width		.9mm
	Length	7″	(178mm)

FORCEPS, ALLIGATOR

30-4856 DECKER Microsurgical Forceps, alligator action, serrated jaws.
Tip width 1.4mm
Shaft length 6″ (152mm)



30-1230 HOEN Angular Forceps, alligator action, 1x2 teeth.
Tip width 2.2mm
Shaft length 5½″ (140mm)



FORCEPS, APPLYING

LeROY Scalp Clip Applying Forceps

20-5117 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)

See Clips, Scalp



FORCEPS, APPLYING



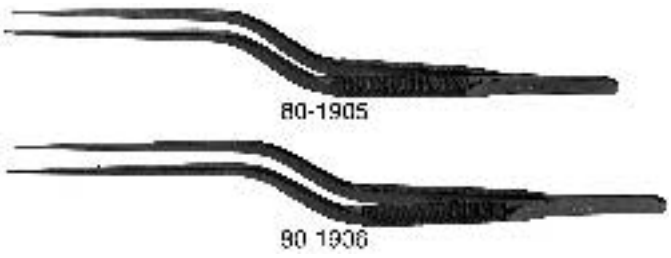
20-5115	RANEY Scalp Clip Applying Forceps, use with 20-1037 or 20-1025 RANEY clips.		
	Length	6¼″	(159mm)

See Clips, Scalp

FORCEPS, BAYONET



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)



	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, BIPOLAR



80-2964	ADSON Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		1mm
	Length	4¾″	(120mm)

COAPTATION Non-Stick Mirror Finish Bipolar Forceps, straight.

80-2968	Small		
	Tip width		.25mm
	Length	4″	(102mm)



CODMAN Non-Stick Mirror Finish Trigeminal Bipolar Forceps, bayonet, titanium.

	Working distance	3½″	(89mm)
	Tip width		.4mm
	Length	7 5/16″	(186mm)
80-2947	45° Angled up		
80-2948	45° Angled down		



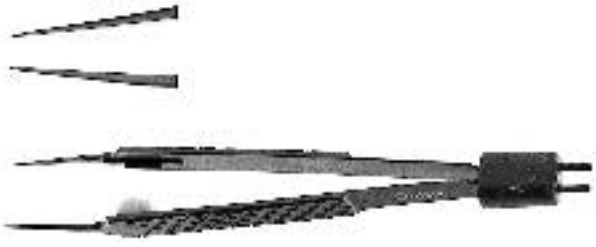
CUSHING Non-Stick Mirror Finish Bipolar Forceps, straight.

	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)



FORCEPS, BIPOLAR



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)





IRIS Non-Stick Mirror Finish Bipolar Forceps, straight.

	Tip width		.6mm
	Length	3⅝″	(92mm)
80-2965	Straight		
80-2966	Curved		



80-2926 JEWELERS #5 Non-Stick Mirror Finish Bipolar Forceps, straight.

	Tip width		.35mm
	Length	4⅜″	(111mm)

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″	(127mm)



MALIS Non-Stick Mirror Finish Bipolar Forceps, bayonet.

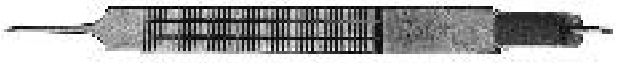
Working distance	3¼″	(83mm)
Tip width		1.5mm
Length	7¼″	(197mm)

80-2912 Forceps only
80-2921 Forceps with insulation

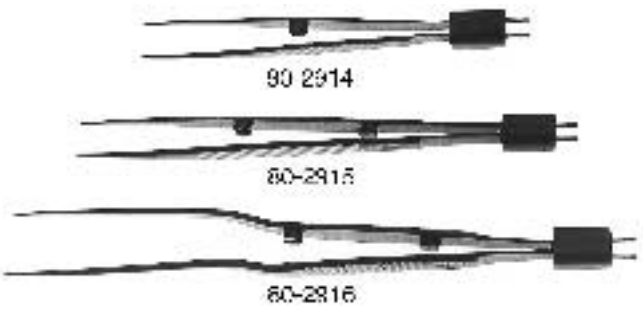


MALIS Non-Stick Mirror Finish Bipolar Forceps, straight, titanium.

	Length	6″	(152mm)
80-2940	Fine	Tip width	.4mm
80-2945	Extra fine	Tip width	.25mm

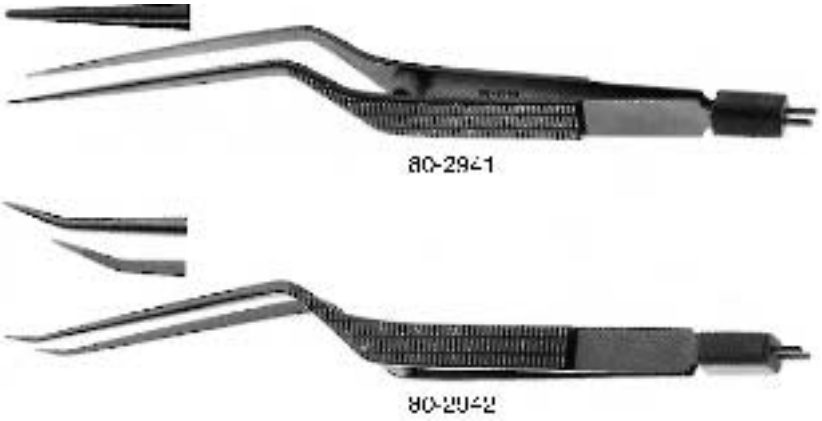


FORCEPS, BIPOLAR



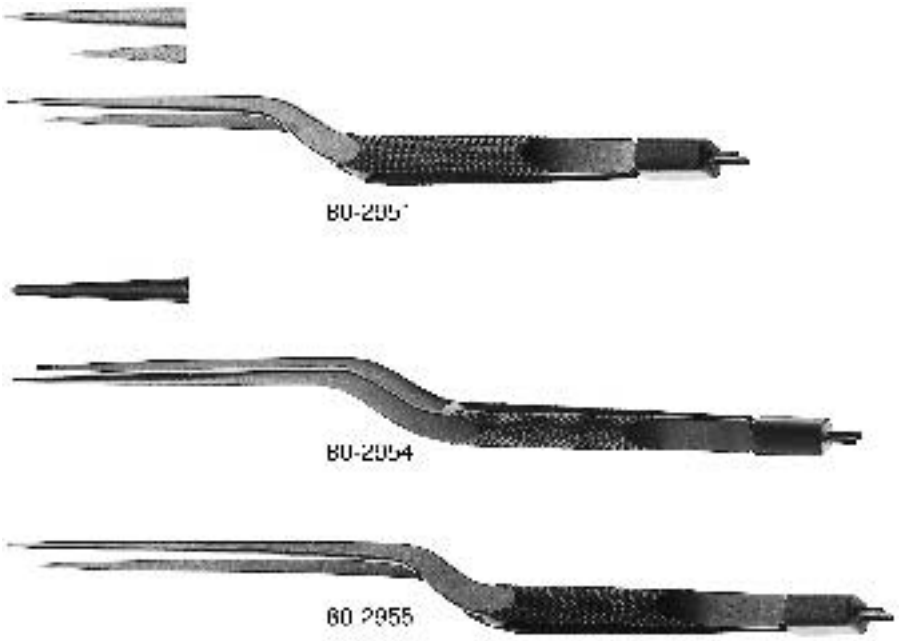
MALIS* Non-Stick Mirror Finish Bipolar Coagulation and Cutting Forceps
Specifically designed for use with the MALIS* CMC-III (80-1170, 80-1171).
Forceps are insulated stainless steel.

80-2914	Straight		
	Tip width	.25mm	
	Length	5½″	(140mm)
80-2915	Straight		
	Tip width	.25mm	
	Length	6¾″	(172mm)
80-2916	Bayonet		
	Tip width	.25mm	
	Length	7¾″	(197mm)



MALIS Non-Stick Mirror Finish Bipolar Forceps, bayonet, titanium.

	Working distance	3″	(76mm)
	Length	8¾″	(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		.6mm
80-2946	Straight, extra fine tip		.25mm



	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

FORCEPS, BIPOLAR



RHOTON Non-Stick Mirror Finish Bipolar Forceps, straight, titanium.

	Length	7⅛″	(180mm)
80-2949	Fine	Tip width	.45mm
80-2950	Regular	Tip width	1mm



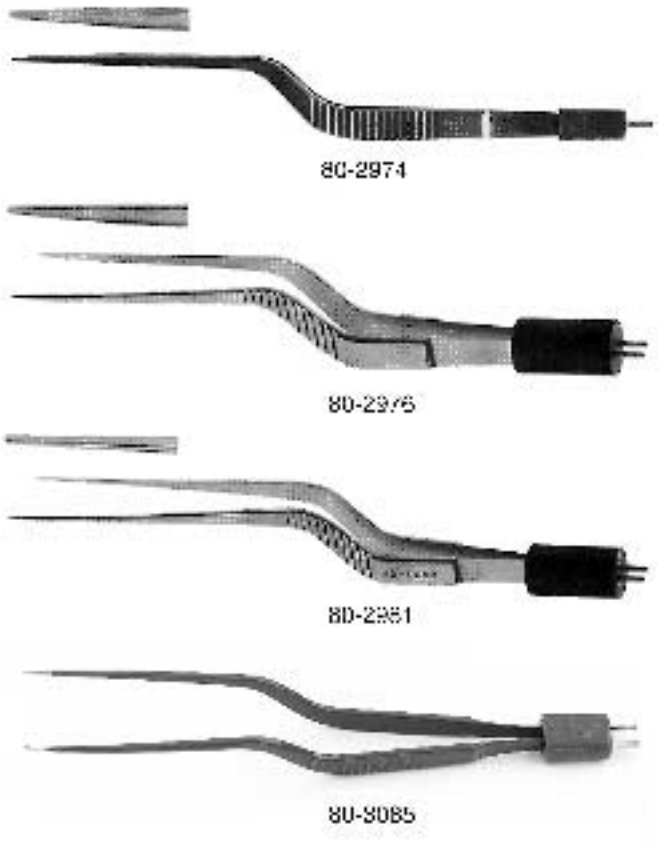
SPETZLER Non-Stick Mirror Finish Neuro-Vascular Bipolar Forceps titanium, bayonet

	Length	9⅞″	(251mm)
	Working distance	4″	(100mm)
			Tip size
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	4″	(102mm)



YASARGIL Non-Stick Mirror Finish Bipolar Forceps, bayonet.

	Working distance	2½″	(64mm)
	Length	6¾″	(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″	(178mm)
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″	(203mm)
80-2979	Fine	Tip width	.5mm
80-2980	Medium	Tip width	.75mm
80-2981	Regular	Tip width	1mm
80-2982	Large	Tip width	1.3mm

YASARGIL Non-Stick Mirror Finish Insulated Bipolar Forceps, bayonet.

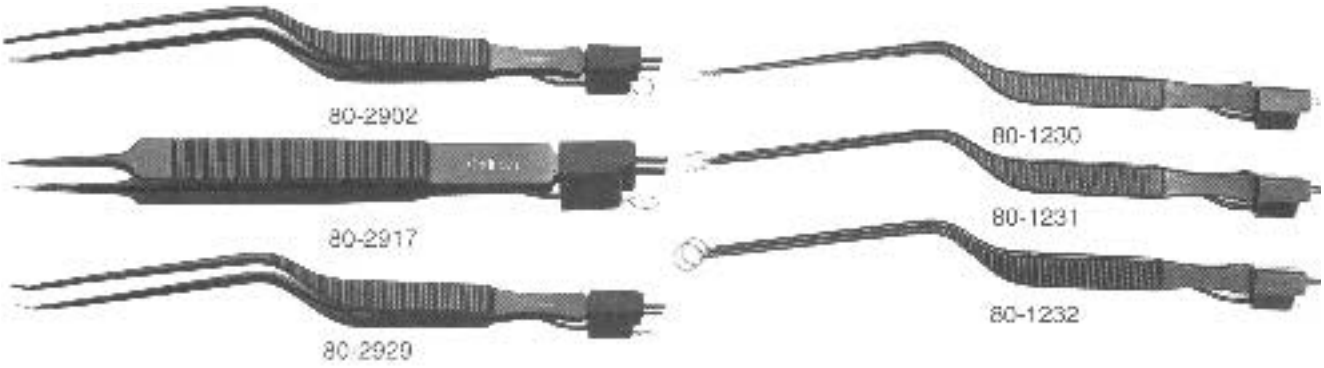
	Working distance	2½″	(64mm)
	Length`	6½″	(165mm)
80-3084	Medium	Tip width	.75mm
80-3085	Regular	Tip width	1mm
	Working distance	4″	(102mm)
	Length	8″	(203mm)
80-3086	Large	Tip width	1.3mm

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	Non-Irrigating
80-2991	Malis-Jenson	Bayonet	7½″	titanium	.5mm	Non-Irrigating
80-2992	Malis	Bayonet	8¾″	titanium	.5mm	Non-Irrigating
80-2993	Malis	Bayonet	8¾″	titanium	1mm	Non-Irrigating
80-2994	Malis	Bayonet	8¾″	titanium	1.5mm	Non-Irrigating
80-2995	Malis	Straight	6⅛″	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	Non-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	6½″	titanium	.75mm	Non-Irrigating
80-3085	Yasargil	Bayonet	6½″	titanium	1mm	Non-Irrigating
80-3086	Yasargil	Bayonet	8″	titanium	1.3mm	Irrigating

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″ (22.3cm)	Insulated titanium	Circular Loop	5mm
80-1230	Bayonet	8¾” (22.3cm)	Insulated titanium	Circular Loop	5mm
80-1231	Bayonet	8¾″ (22.3cm)	Insulated titanium	Circular Loop	7mm
80-1232	Bayonet	8¾″ (22.3cm)	Insulated titanium	Circular Loop	10mm
80-2900	Bayonet	8½″ (21.8cm)	Insulated Stainless	Straight	0.75mm
80-2901	Bayonet	7¾″ (19.5cm)	Insulated Stainless	Straight	1.5mm
80-2902	Bayonet	8¾″ (22.3cm)	Insulated Stainless	Straight	0.50mm
80-2903	Bayonet	7¾″ (19.7cm)	Insulated Stainless	Straight	0.25mm
80-2904	Bayonet	8¾″ (22.3cm)	titanium	Straight	1.5mm
80-2905	Bayonet	8¾″ (22.3cm)	titanium	Straight	1.0mm
80-2906	Bayonet	8¾″ (22.3cm)	titanium	Straight	0.25mm
80-2913	Straight	5″ (12.7cm)	Insulated Stainless	Straight	0.75mm
80-2917	Straight	5″ (12.7cm)	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
80-2929	Bayonet	8¾″ (22.3cm)	titanium	Angle Up	0.50mm
80-2930	Bayonet	8¾″ (22.3cm)	titanium	Angle Down	0.50mm
80-2931	Bayonet	8¾″ (22.3cm)	titanium	90° Blunt Curve Up	0.75mm
80-2932	Bayonet	8¾″ (22.3cm)	titanium	90° Blunt Curve Down	0.75mm

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.

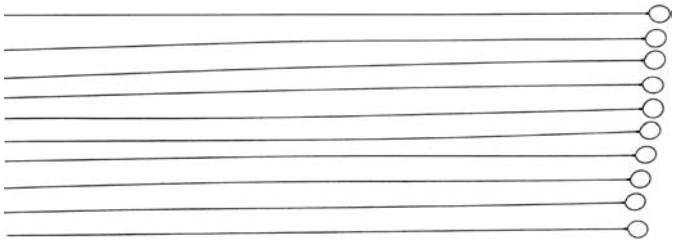


RHOTON Non-Stick Mirror Finish Bipolar Irrigation Forceps, titanium

	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

FORCEPS, BIPOLAR, STYLETS

80-1130 Stylets – set of 10/replacements for preventive maintenance and care of the microtube on MALIS & RHOTON Bipolar Irrigation Forceps.



FORCEPS, BRAIN TUMOR



30-1117	BRIGHAM Brain Tumor Forceps		
	Diameter of ring jaw	3/8″	(10mm)
	Length	7 3/8″	(187mm)

FORCEPS, CLIP APPLYING, SCALP



	LeROY Scalp Clip Applying Forceps		
20-5117	Adult size for use with 20-1032 or 20-1034 LeROY clips.		
	Length	7 1/4″	(184mm)
20-5120	Infant size for use with 20-1035 Infant LeROY clips.		
	Length	7 1/4″	(184mm)

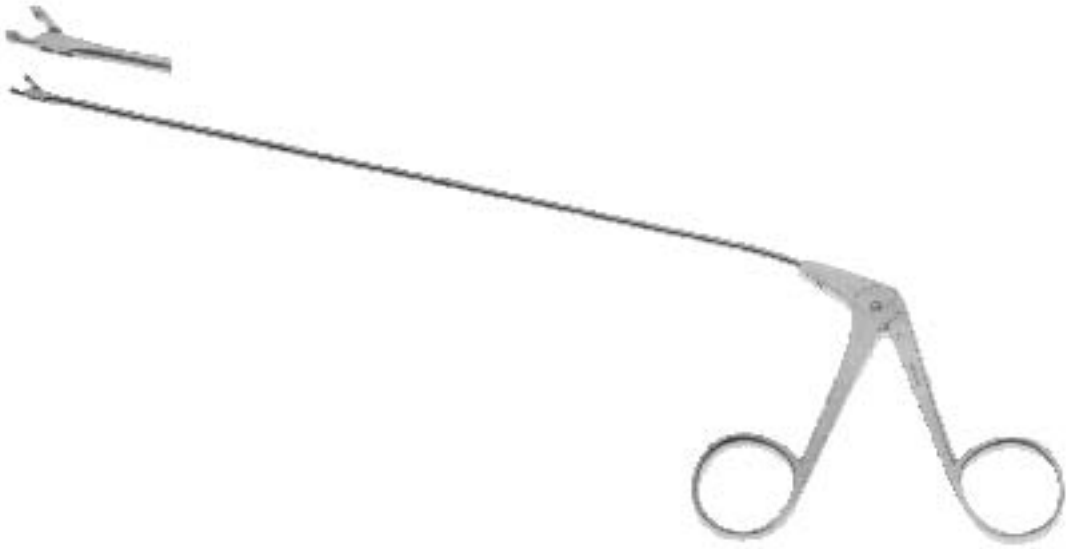


20-5115	RANEY Scalp Clip Applying Forceps, use with 20-1037 or 20-1025 RANEY clips.		
	Length	6 1/4″	(159mm)

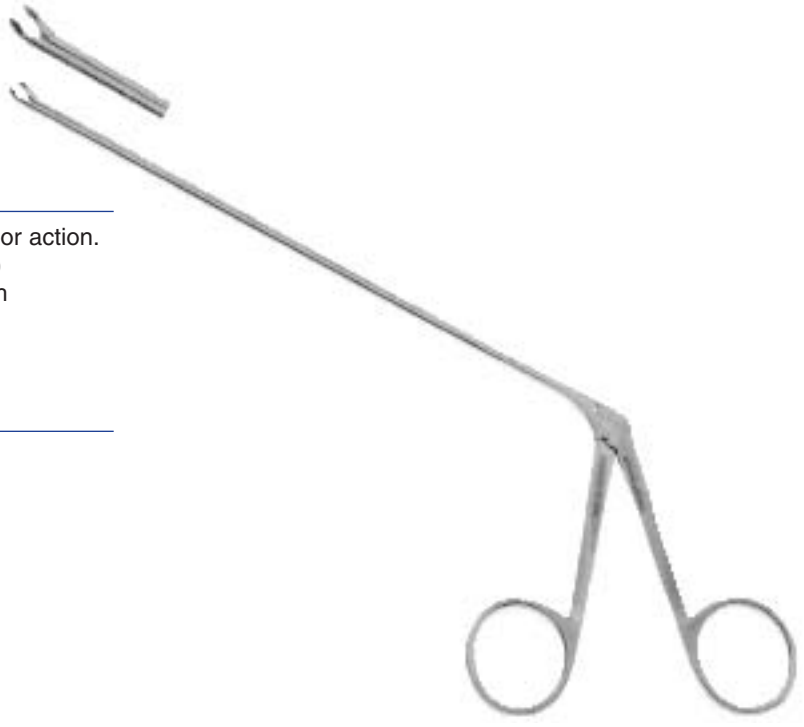
FORCEPS, CUP



	MALIS* Bayonet Cup Forceps		
	Length	8 1/2″	(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



	MICRO CUP Pituitary Forceps, semi-malleable shafts.		
	Length	7⅞″	(200mm)
53-4009	Tip width		1mm
53-4010	Tip width		2mm



	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

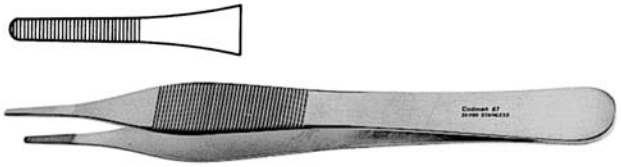
FORCEPS, DISCECTOMY



80-1654 WILLIAMS Discectomy Forceps, single-toothed cup.

Bit size		2mm
Length	5½″	(140mm)

FORCEPS, DRESSING



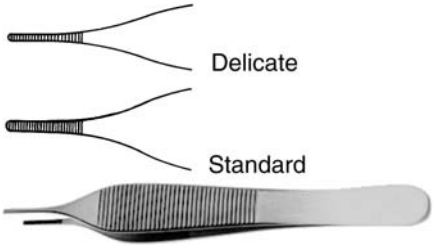
30-1190 ADSON Dressing Forceps, standard pattern.

Tip width		2mm
Length	7″	(178mm)



30-1191 ADSON Dressing Forceps, bayonet shape.

Working distance	3⅝″	(92mm)
Tip width		2mm
Length	7½″	191mm



ADSON Dressing Forceps

	Length	5″	(127mm)
30-4214	Delicate	Tip width	.8mm
30-1185	Standard	Tip width	1.2mm

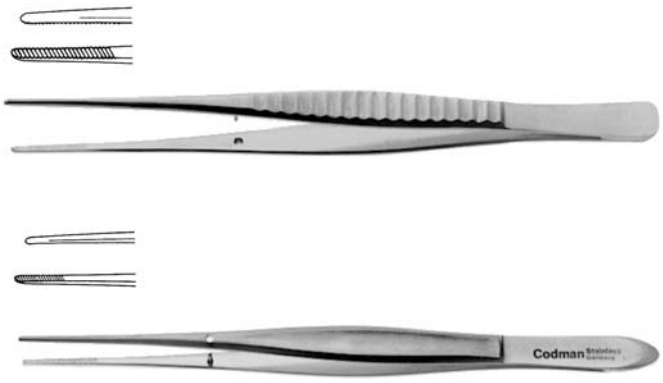


30-1181 BRAIN Dressing Forceps, narrow, serrated.

Tip width		1mm
Length	7″	(178mm)

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	7¾″	(197mm)

Tip width is measured 1mm from the instrument tip.





CUSHING DRESSING Forceps, serrated, bayonet shape, dissecting end.

	Length	7¼″	(184mm)
30-1155	Working distance	3″	(76mm)
	Tip width		1.8mm
	Length	7¾″	(197mm)
30-1156	Working distance	3½″	(89mm)
	Tip width		1.4mm

30-1203 D'ERRICO Dressing Forceps, serrated, bayonet shape.

Working distance	3¼″	(83mm)
Tip width		2.1mm
Length	8¾″	(222mm)



30-1214 GERALD Dressing Forceps, serrated, straight.

Tip width		1.1mm
Length	7″	(178mm)



FORCEPS, DRESSING



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)



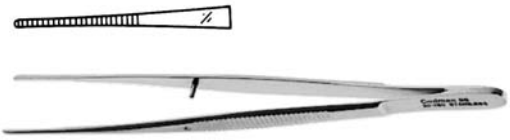
	JANSEN Dressing Forceps, serrated, bayonet shape.		
30-6995	Working distance	3⅛″	(80mm)
	Tip width		2mm
	Length	6½″	(165mm)
30-1160	Working distance	4⅜″	(121mm)
	Tip width		1.8mm
	Length	8½″	(216mm)



80-1732	RHOTON Dressing Forceps, titanium, serrated tips.		
	Tip width		1.8mm
	Length	7″	(178mm)

FORCEPS, DRESSING

30-1180 SEMKEN Dressing Forceps, serrated.
Tip width 1.3mm
Length 5″ (127mm)



FORCEPS, DURAL

80-1731 RHOTON Dural Forceps, titanium, 1x2 teeth.
Tip width 1mm
Length 7″ (178mm)



FORCEPS, HEMOSTATIC

30-1230 HOEN Angular Forceps, alligator action, 1x2 teeth.
Tip width 2.2mm
Shaft length 5½″ (140mm)



FORCEPS, HYPOPHYSEAL



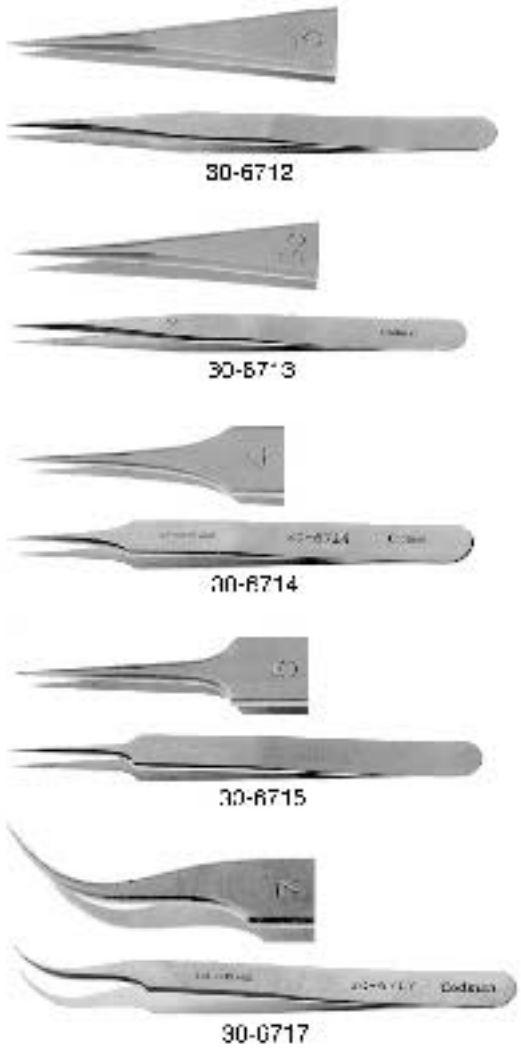
30-1000	ADSON Hypophyseal Forceps, bayonet shape.		
	Cup I.D.	¼″	(6mm)
	Working distance	4½″	(114mm)
	Total length	9″	(229mm)



30-1204	D'ERRICO Hypophyseal Forceps, bayonet shape.		
	Cup I.D.	¼″	(6mm)
	Working distance	3½″	(89mm)
	Total length	8⅝″	(219mm)

FORCEPS, JEWELERS

	JEWELERS Forceps			
30-6712	#3	Length	4¾″	(121mm)
30-6713	#3C	Length	4 5/16″	(109mm)
30-6714	#4	Length	4¼″	(108mm)
30-6715	#5	Length	4 5/16″	(109mm)
30-6717	#7 Curved	Length	4⅝″	(117mm)



FORCEPS, LIGAMENTA FLAVA

30-1228	LIGAMENTA FLAVA Forceps, curved on side, 1x2 teeth.		
	Length	7¼″	(184mm)

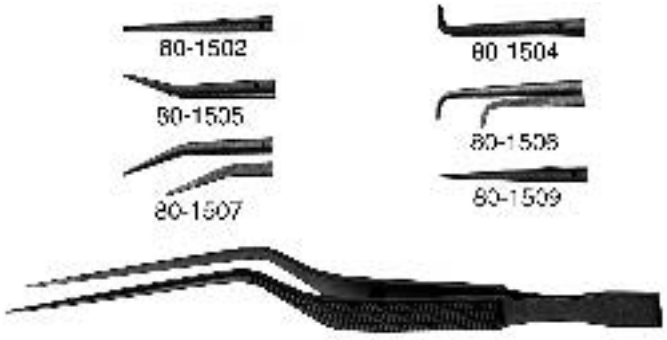


FORCEPS, MICRO



80-1654	WILLIAMS Discectomy Forceps, single-toothed cup.		
	Bit size		2mm
	Length	5½″	(140mm)

FORCEPS, MICRO, BAYONET



	MALIS Forceps, bayonet, titanium.		
	Working distance	3¾″	(95mm)
80-1502	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)



	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)

FORCEPS, MONOPOLAR

30-1257	CUSHING Monopolar Forceps, bayonet, with insulation.		
	Working distance	3″	(76mm)
	Tip width		1.5mm
	Length	7¾″	(197mm)



	DAVIS Monopolar Forceps, bayonet.		
	Working distance	3¾″	(95mm)
	Tip width		1.5mm
	Length	6½″	(165mm)
30-1240	Forceps only		
30-1243	Forceps with insulation		





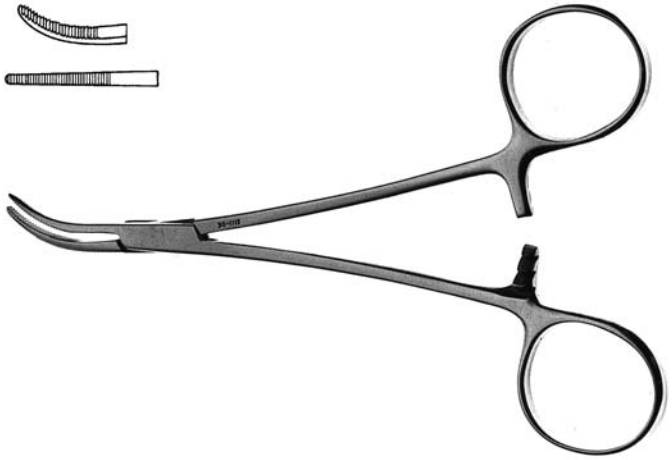
30-1161	JANSEN Monopolar Forceps, bayonet, with insulation.		
	Working distance	3¾″	(95mm)
	Tip width		1.5mm
	Length	8¾″	(222mm)

FORCEPS, SCALP

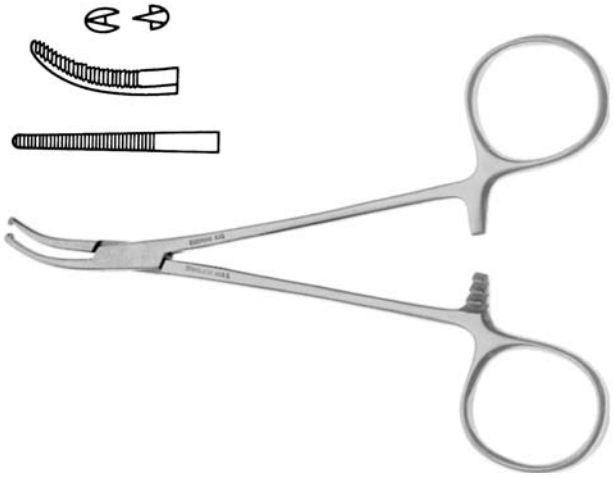
	DANDY™ Scalp Hemostatic Forceps, curved on side.		
	Length	5½″	(140mm)
	Bright Finish		
32-4160	Serrated		
32-4161	1 x 2 teeth		



FORCEPS, SCALP



30-1115	HOEN Scalp Hemostatic Forceps, serrated, curved on side.		
	Length	5 3/8″	(137mm)



30-1360	RAIMONDI Infant Scalp Hemostatic Forceps, 1x2 teeth, curved on side.		
	Length	5″	(127mm)

FORCEPS, 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		

FORCEPS, STRAIGHT

E-SERIES* XF Forceps, titanium
Length 6″ (152mm)

80-6630	Extra Fine Tying Tip Straight	Tip width	.7mm
80-6631	Extra Fine Utility Straight	Tip width	.3mm



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



80-2000	MICRO Forceps, straight		
	Tip width		.3mm
	Length	5½″	(140mm)
80-2009	MICRO Forceps, straight		
	Tip width		.3mm
	Length	7″	(178mm)
80-2010	MICRO Forceps, straight		
	Tip width		.7mm
	Length	7″	(178mm)



RHOTON Forceps, straight, titanium.
Length 7″ (178mm)

80-1700	Extra-fine	Tip width	.3mm
80-1701	Fine	Tip width	.7mm



FORCEPS, TENDON



30-2540	CARROLL Tendon Pulling Forceps		
	Shaft length	5″	(127mm)
	Total length	7½″	(191mm)

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	7¾″	(197mm)

	CUSHING Tissue Forceps, 1x2 teeth, bayonet shape, dissecting end.		
30-1146	Working distance	3⅜″	(86mm)
	Tip width		1.6mm
	Length	7¼″	(184mm)
30-1147	Working distance	3″	(76mm)
	Tip width		1.6mm
	Length	7¾″	(197mm)

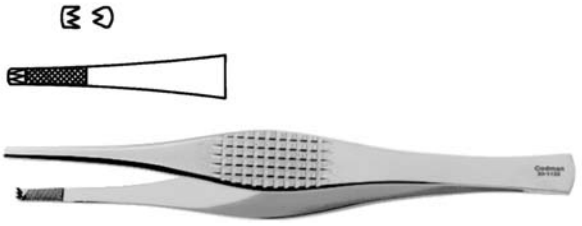


30-1201	D'ERRICO Tissue Forceps, 1x2 teeth, bayonet shape.		
	Working distance	3⅜″	(86mm)
	Tip width		2.4mm
	Length	8¾″	(222mm)

Tip width is measured 1mm from the instrument tip.



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)



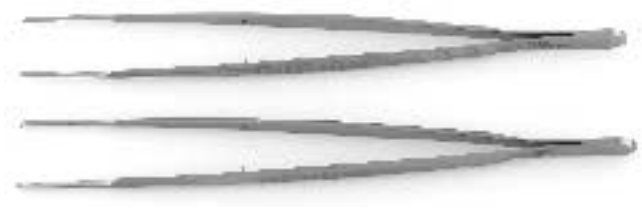
30-1213	GERALD Tissue Forceps, 1x2 teeth, bayonet shape.		
	Working distance	3½″	(89mm)
	Tip width		1.3mm
	Length	7½″	(191mm)



FORCEPS, TISSUE



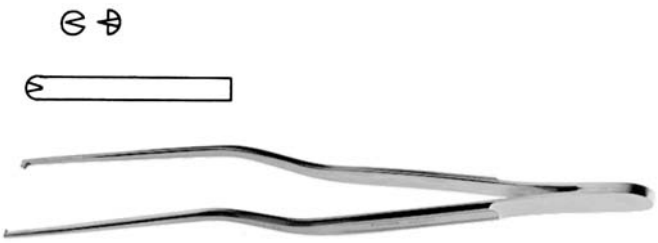
	GERALD Tissue Forcep, tungsten carbide insert		
	Tip width	.1cm	
32-3531	Length	7″	(17.8cm)
32-3532	Length	10″	(25.4cm)



	GERALD Forcep, Delicate Tissue		
	Length	9¼″	(23.5cm)
32-3558	1X2 Teeth		
32-3559	Serrated Tip		



32-3530	GERALD DEBAKEY Tissue Forcep		
	Tip width	.1cm	
	Length	7″	(17.8cm)



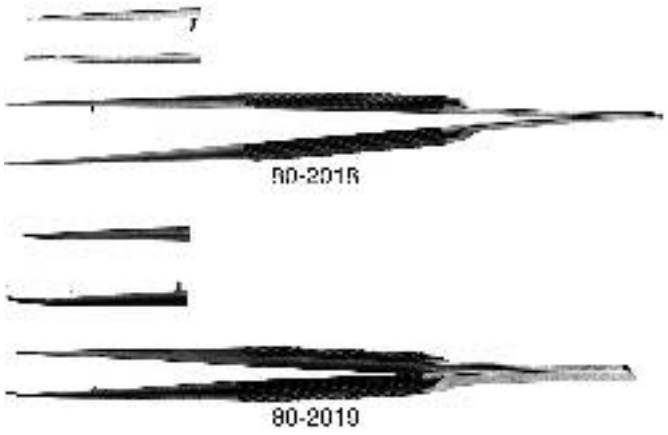
30-1166	HOEN Tissue Forceps, 1x2 teeth, bayonet shape, Gutsch handle.		
	Working distance	3″	(76mm)
	Tip width		2.1mm
	Length	7¾″	(197mm)



	SEMKEN Tissue Forceps, 1x2 teeth.		
30-1170	Tip width		1.3mm
	Length	5″	(127mm)

Tip width is measured 1mm from the instrument tip.

	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)



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 3/16″ (5mm)
Total length 7¾″ (197mm)
Tip diameter (.9mm)

38-1060 Sharp
38-1061 Blunt



38-1030 CUSHING Gasserian Ganglion Hook, Blunt

Hook depth	3/16″	(5mm)
Total length	9″	(229mm)



38-1080 DANDY Nerve Hook, straight, blunt.

Hook depth	1/8″	(3mm)
Total length	8 5/8″	(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



HOOKS, NERVE



RHOTON Nerve Hooks, titanium.
length 7½″ (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)



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 7¾″ (197mm)
Tip diameter (.9mm)

HOOKS, NERVE

	Length	8½″	(21 cm)
46-3171	Micro Nerve Hook		
46-3172	Ultra Micro Nerve Hook		



	Instrument Length	9½″	(24 cm)
	Working distance	4.1″	(10.4 cm)
	Handle width	0.6″	(1.5 cm)
46-2646	XL Cervical Micro Nerve Hook		
46-2647	XL Cervical Ultra Micro Nerve Hook		



HOOKS, SKIN

38-2515	CARROLL Skin Hook, sharp.		
	Length	6″	(152mm)
	Hook size	⅛″	(3mm)





	CONVERSE Skin Hooks, sharp.		
	Length	7¼″	(184mm)
38-6638	Small hook size	⅛″	(3mm)
38-6640	Large hook size	⅕″	(5mm)

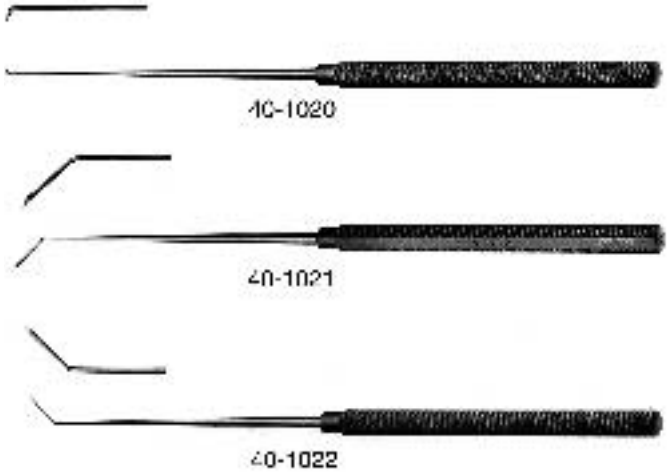


38-2520	GILLES Skin Hook, sharp.		
	Length	7⅛″	(181mm)
	Hook size	⅛″	(3mm)

KNIFE



40-1002	CRILE Gasserian Ganglion Knife and Dissector, double-ended.		
	Length	8½″	(216mm)
	Tip sizes		(6mm)
			(16mm)



	STECHER Arachnoid Knives		
	Tip width		1.5mm
	Length	8″	(203mm)
40-1020	Straight		
40-1021	Angled left		
40-1022	Angled right		

MICROSURGICAL INSTRUMENT KIT #1

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.

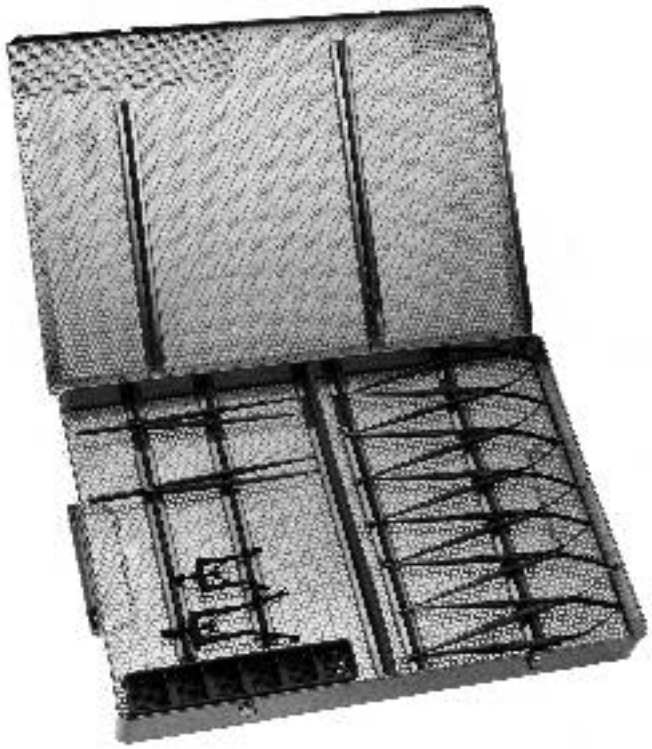


MICROSURGICAL INSTRUMENT KIT #2

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.



MICROVASC KIT



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.

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

NEEDLE HOLDERS, BAYONET



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)

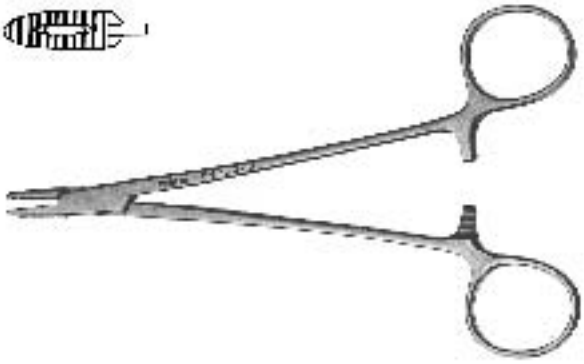
80-1746 Straight tip
80-1747 Curved tip

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



NEEDLE HOLDERS

64-1000 ADSON Dural Needle Holder, fenestrated jaws.
Length 7¼″ (181mm)



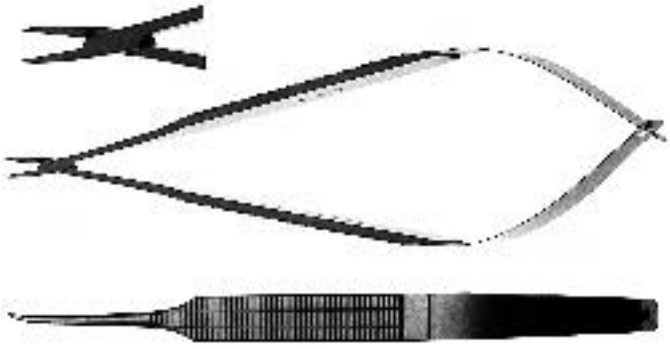
NEEDLE HOLDERS



	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



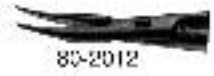
	MALIS Needle Holders, titanium.		
	Length	6¾″	(171mm)
80-1510	Straight tip	Tip width	.5mm
80-1511	Curved tip	Tip width	.5mm
80-1514	Fine, straight tip	Tip width	.5mm

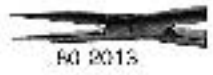


	MICRO Needle Holders		
	Tip width		.5mm
	Length	5½″	(140mm)
80-2002	Straight tip		
80-2003	Curved tip		

NEEDLE HOLDERS

	MICRO Needle Holders		
	Tip width		.5mm
	Length	7″	(178mm)
80-2012	Straight tip		
80-2013	Curved tip		







80-1800	MICROVASC* Needle Holders, titanium, curved tip.		
	Tip width		.7mm
	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



NEEDLES

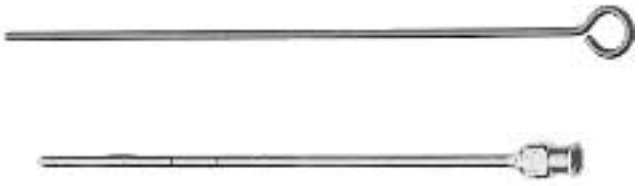
45-8002	HEPARIN Flushing Needle, 18G.		
	Length	1⅞″	(48mm)



80-1691	RHOTON #12 Straight Point Needle, semi-sharp, titanium.		
	Tip width		.8mm
	Length	7½″	(191mm)



NEEDLES, NEURO



45-1065 CAMPBELL Ventricular Needle, graduated in centimeters, 3 hole, Luer lock hub, 12G.
Length 4″ (102mm)



CONE Biopsy Needles, sharp open end with blunt obturator, Luer lock hub.
Length 3½″ (89mm)

45-1022 13G.
45-1024 15G.



CONE Ventricular Needles, 2 hole, Luer lock hub.
Length 3½″ (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.



45-1085 D'ERRICO Ventricular Needle, graduated in centimeters, one hole, Luer lock hub, 12G.
Length 3¾″ (95mm)



45-1052 DANDY Ventricular Needle, graduated in centimeters, 1 hole, 11G.
Length 3⅝″ (92mm)



45-1092 FRAZIER Ventricular Needle, graduated in centimeters, three hole, 10G.
Length 3⅞″ (98mm)

MIXTER Ventricular Needles, two hole, silver.
Length 3⅝″ (92mm)



45-1060 14G.
45-1061 15G.
45-1062 16G.
45-1063 18G.

45-1068 PACE Ventricular Needle, graduated in centimeters, one hole, Luer lock hub, 12G.
Length 3⅝″ (92mm)



45-1055 POPPEN Ventricular Needle, two hole, Luer lock hub, 12G.
Length 3⅜″ (86mm)





45-1050 SCOVILLE Ventricular Needle, graduated in centimeters, two hole, 14G.
Length 3⅜″ (85mm)

PASSER



80-1530 MALIS Ligature Passer, titanium handles, stainless steel shaft.
Hook size 3mm
Length 7⅜″ (184mm)

PENS, MARKING



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



CODMAN Surgical Marker, gentian violet dye, sterile, disposable, with 6″ ruler, 36 per case.

43-1032 Micro tip

PERCUSSORS/HAMMERS

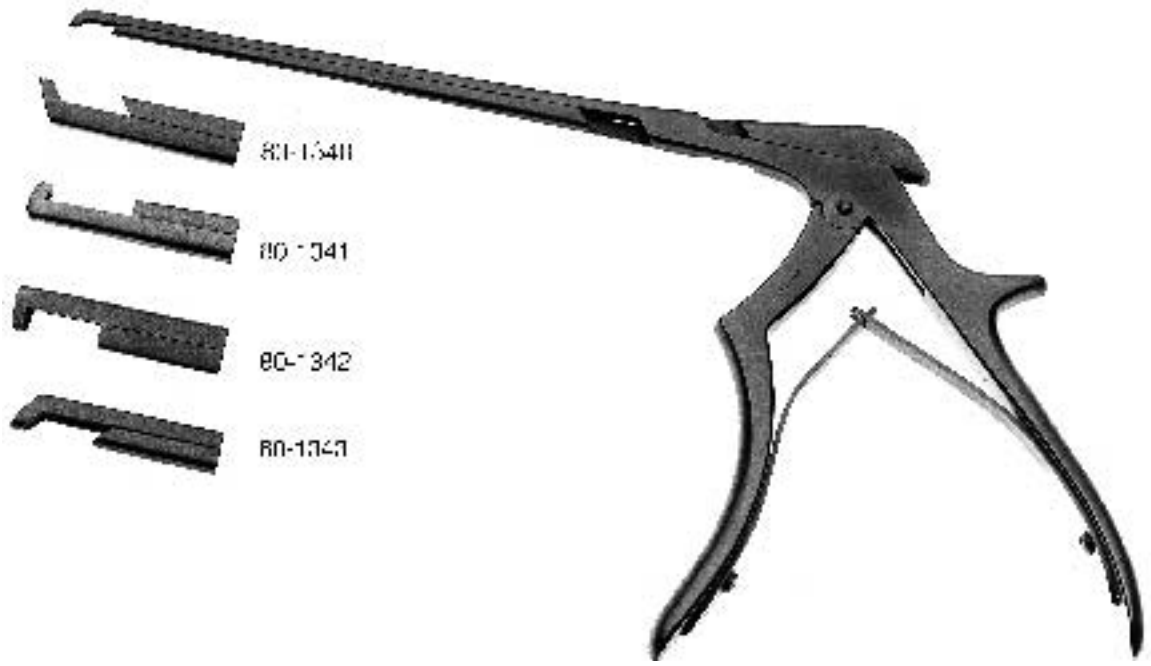


24-1010 MILLET Neurological Test Instrument, incorporating a C-128 tuning fork.
Length 8⅛″ (206mm)
Includes one each of the following:
MILLET Pinwheel
MILLET Rubber Percussor, large
MILLET Rubber Percussor, small
MILLET Cap for large percussor
MILLET Brush Assembly
MILLET Needle



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

RASP

65-8005 ALEXANDER Coastal Periosteotomes, sharp, double-ended.

Elevator width	½″	(13mm)
Stripper width	1″	(25mm)
Length	8⅜″	(213mm)



DOYEN Rib Raspatories, sharp.

Blade Length	1⅛″	(30mm)
Length	7″	(178mm)

52-8000 Left
52-8001 Right



RASP



52-1005 JOSEPH Periosteal Raspatory, sharp.

Working distance	1 5/8″	(41mm)
Tip width	1/4″	(6mm)
Length	6 7/8″	(175mm)



32-3445 MILLER Rasp, Double Ended

Length	7 1/4″	(18.4cm)

RETRACTOR



50-1362 CODMAN ADSON Retractor

Length	9 1/2″	(240mm)
Total opening	5″	(120mm)

Shank angle 65°
3 x 3 sharp prongs

RETRACTOR, BRAIN



50-1060 CUSHING Decompression Retractor, fenestrated blade.

Width	1/2″	(13mm)
Depth	7/8″	(22mm)
Length	8 3/8″	(213mm)



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	3″	(102mm)
Blade width	3/8″	(10mm)
Blade width	9/16″	(14mm)
Blade width	5/8″	(16mm)
Blade width	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.

RETRACTOR, CEREBELLAR



	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)

50-1520 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)



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	⅝″	(16mm)
Prong depth	⅞″	(22mm)



RETRACTOR, CEREBELLAR

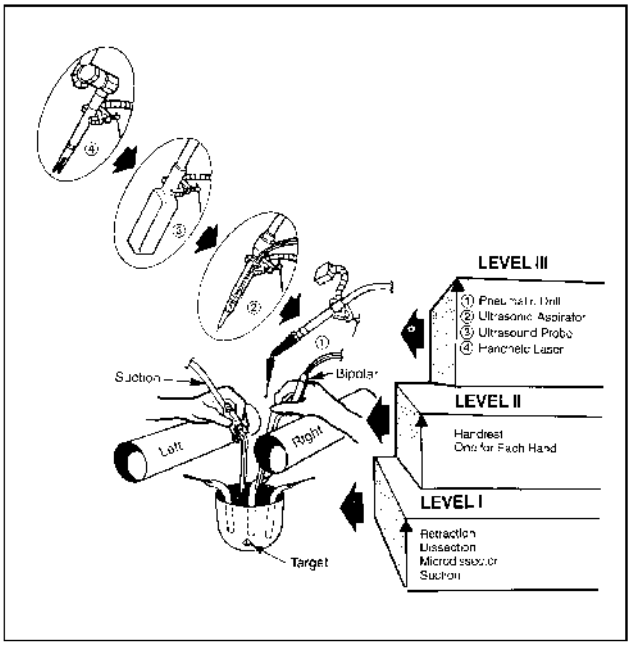


50-1363	MISKIMON Cerebellar Retractor, 7x7 sharp prongs.		
	Total length	7½″	(191mm)
	Blade width	1¼″	(32mm)
	Blade depth	1⅜″	(35mm)

RETRACTOR, GENERAL PURPOSE



50-2608	RAGNELL Retractor, double-ended.		
	Blade width	⅛″	(3mm)
	Blade depth	¼″	(6mm)
	Blade width	¼″	(6mm)
	Blade depth	⅝″	(16mm)
	Length	6″	(152mm)



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)	¼″ x ¾″ (6mm x 19mm)
50-1531	9″ (229mm)	5/32″ x ⅝″ (4mm x 16mm)
50-1532	9″ (229mm)	⅛″ x ½″ (3mm x 13mm)
50-1533	9″ (229mm)	3/32″ x ⅜″ (2mm x 10mm)
50-1534	9″ (229mm)	1/16″ x ¼″ (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 9½″ (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 6¾″ (171mm)

50-1514 GREENBERG Universal Retractor Case, with four compartments for various components.

Compartment Dimensions

	Compartment #1	Compartment #2
Length	10⅜″ (264mm)	17″ (432 mm)
Width	7¾″ (197mm)	2⅛″ (54mm)
	Compartment #3	Compartment #4
Length	6¾″ (171mm)	6¾″ (171mm)
Width	4⅝″ (117mm)	3⅛″ (79mm)

Case Dimensions

Length	17″ (432mm)
Width	10″ (254mm)
Depth	2⅜″ (60mm)

RETRACTOR, GREENBERG



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



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	6¾″	(171mm)

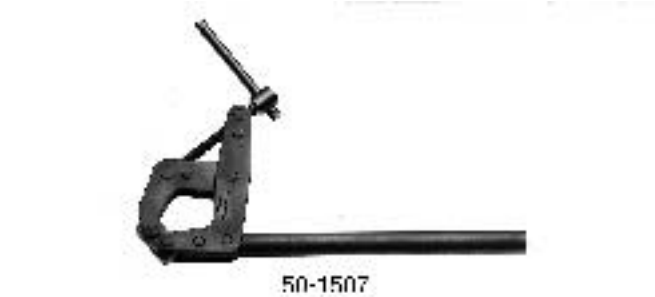
50-1515 GREENBERG Maxi-Vise Adapter, attaches to the GREENBERG Flexible Arms (50-1509 and 50-1511). Doubles the holding diameter of the arms (4mm to 8mm). Useful for holding suction devices and other various microsurgical instruments.



50-1507 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.







50-1511 GREENBERG Short Retractor Arm
Length 6½″ (165mm)

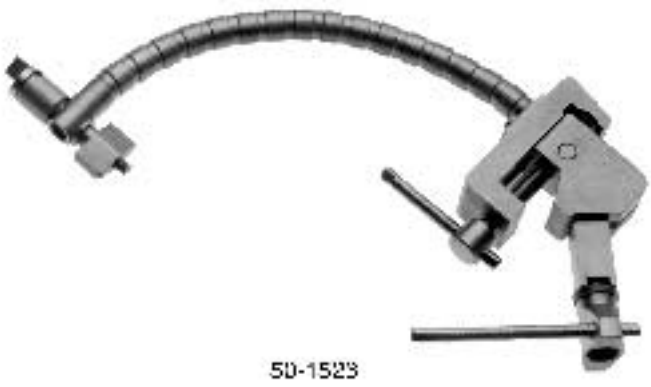
Attaches to Primary Bar (50-1507) or Secondary Bar (50-1516).
Mini case holds all sizes of Greenberg Retractor blades.



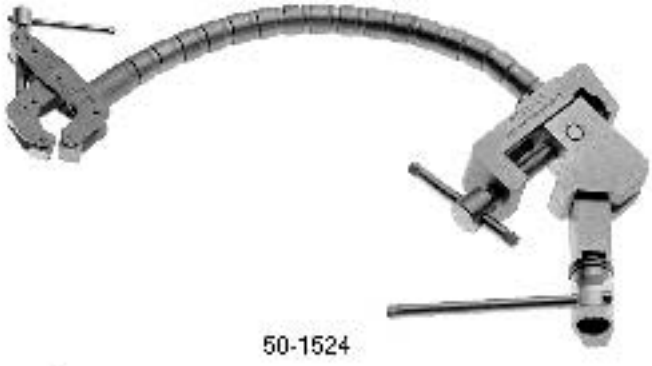
50-1522 GREENBERG Short Coupler
Can be used as mount for the GREENBERG Handrest (50-1512), or Large or Small Instrument Holders (50-1524 or 50-1523).



RETRACTOR, GREENBERG



50-1523



50-1524



50-1525



50-1529

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 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 1/8″ in diameter.

RETRACTOR, GREENBERG

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	¼″ x ¾″	(6mm x 19mm)
50-1531	5⁄32″ x ⅝″	(4mm x 16mm)
50-1532	⅛″ x ½″	(3.2mm x 12.7mm)
50-1533	5⁄32″ x ⅜″	(2.4mm x 9.5mm)
50-1534	1⁄16″ x ¼″	(1.6mm x 6mm)



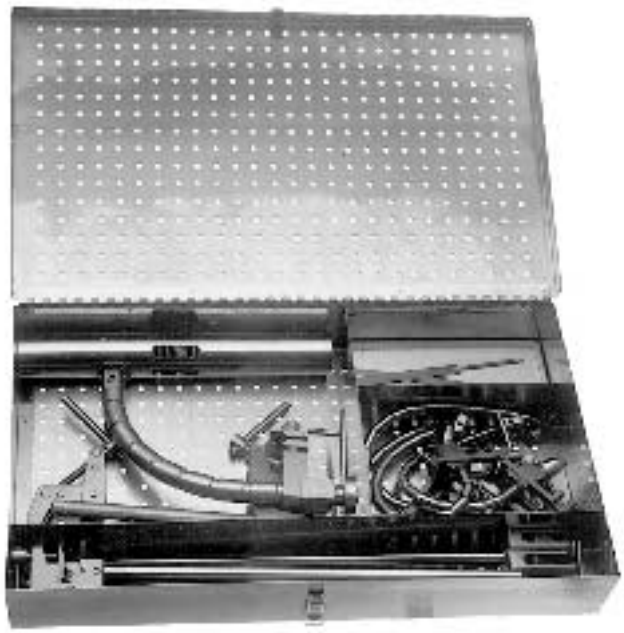
50-1514 GREENBERG Universal Retractor Case, with four compartments for various components.

Compartment Dimensions

	Compartment #1	Compartment #2
Length	10⅜″ (264mm)	17″ (432mm)
Width	7¾″ (197mm)	2⅛″ (54mm)
	Compartment #3	Compartment #4
Length	6¾″ (171mm)	6¾″ (171mm)
Width	4⅝″ (117mm)	3⅛″ (79mm)

Case Dimensions

Length	17″	(432mm)
Width	10″	(254mm)
Depth	2⅜″	(60mm)



RETRACTOR, LAMINECTOMY

CONE Laminectomy Retractors, self-retaining with hinged arms, 3x4 sharp prongs.

50-1167	Length	6⅜″	(162mm)
50-1168	Length	8″	(203mm)



RETRACTORS, SCALP



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)



CONE Scalp Retractors, self-retaining, with hinged arms.

50-1166 3x4 blunt prongs

Length	5 3/4″	(146mm)

50-1167 3x4 sharp prongs

Length	6 3/8″	(162mm)
Depth		(18.3mm)
Width		(18.5mm)
Opening		(92mm)



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)



50-1227 JANSEN Mastoid Retractor, self-retaining, 3x3 blunt prongs.

Prong width	1 1/16″	(17mm)
Prong depth	3/8″	(10mm)
Total opening	1 3/4″	(44mm)
Length	4″	(102mm)

50-1226 JANSEN Scalp Retractor, self-retaining, 4x4 blunt prongs.

Blade width	3/4″	(19mm)
Blade depth	3/4″	(19mm)
Total opening	3″	(76mm)
Length	4 5/8″	(117mm)



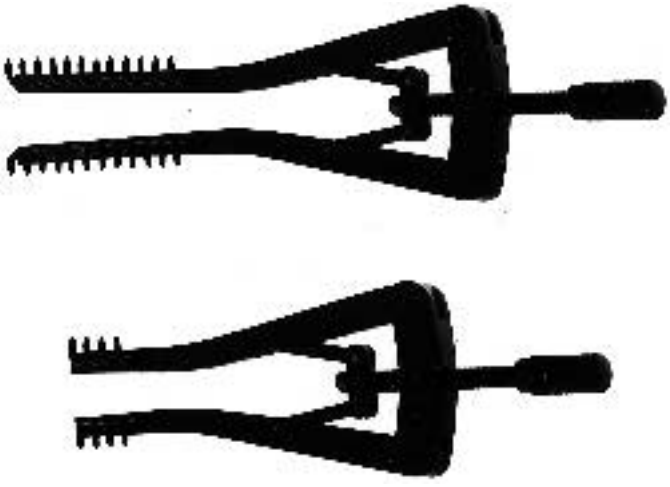
50-1236 SNITMAN Endaural Retractor, self-retaining, 3x3 sharp prongs on solid blade.

Prong width	9/16″	(14mm)
Prong depth	3/8″	(10mm)
Total opening	2″	(51mm)
Length	4 3/16″	(106mm)



MICROVASC™ Modified Alm Retractors, black anodized.

80-1812	4x4 prongs	Length	3″	(76mm)
80-1813	12x12 prongs	Length	3 3/4″	(95mm)



NEUROSURGERY

RETRACTOR, TISSUE





	CODMAN Tissue Retractors		
	Length	5¼″	(133mm)
	Total opening	2½″	(64mm)
50-1223CO	3x3 blunt prongs		
	Prong width	½″	(13mm)
	Prong depth	⅝″	(16mm)
50-1224CO	1x1 blunt prongs		
	Prong depth	½″	(13mm)

RETRACTORS, VEIN



50-1022	CODMAN-CUSHING Vein Retractor		
	Blade width		9.5mm
	Blade depth		6.4mm
	Length	7¾″	(197mm)



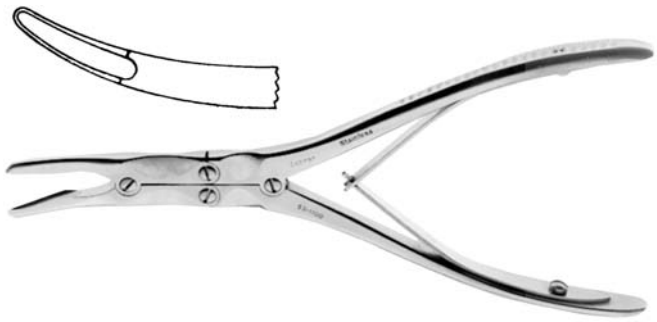
	CUSHING Retractor		
	Jaw	Length	
32-3633	1.0cm	11″	(28.0cm)
32-3634	1.1cm	14″	(35.5cm)



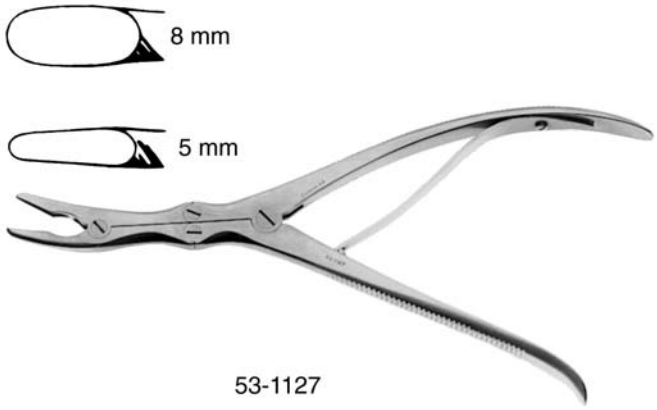
50-1020	CUSHING Vein Retractor		
	Blade width	½″	(13mm)
	Blade depth	⅜″	(10mm)
	Length	9″	(229mm)

RONGEURS, BONE, DOUBLE ACTION

53-1100	BEYER Rongeur, curved, double-action.		
	Bite	1/16″	(2.5mm)
	Length	7″	(178mm)



	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)

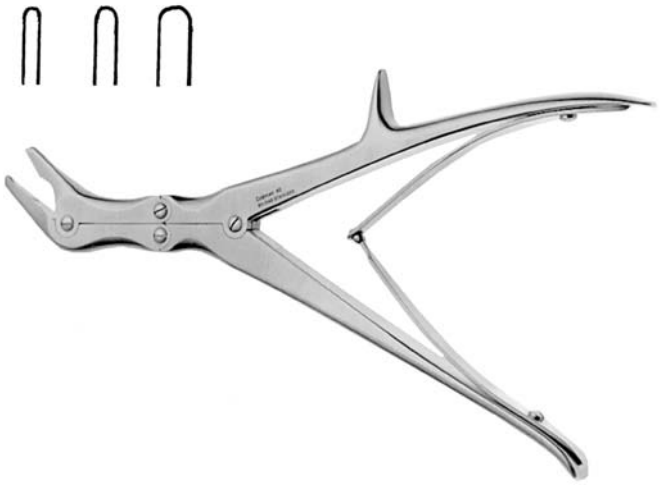


53-1127

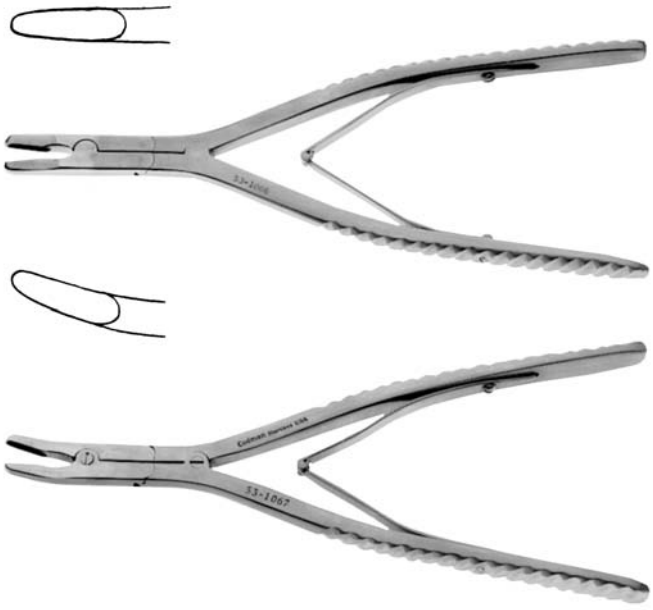


53-1128

RONGEURS, BONE, DOUBLE ACTION



	ECHLIN Laminectomy Rongeurs, double-action, angular		
	Length	8¾″	(222mm)
53-1045	Bite		2mm
53-1046	Bite		3mm
53-1047	Bite		4mm



	FULTON Laminectomy Rongeurs, cup size 15mm x 16mm narrow blade, double-action.		
	Length	7½″	(191mm)
53-1060	Straight		
53-1061	Slightly curved		
	Length	9½″	(241mm)
53-1066	Straight		
53-1067	Slightly curved		



30-1290	RUSKIN Bone Cutting Forceps, double-action.		
	Length	7¼″	(184mm)

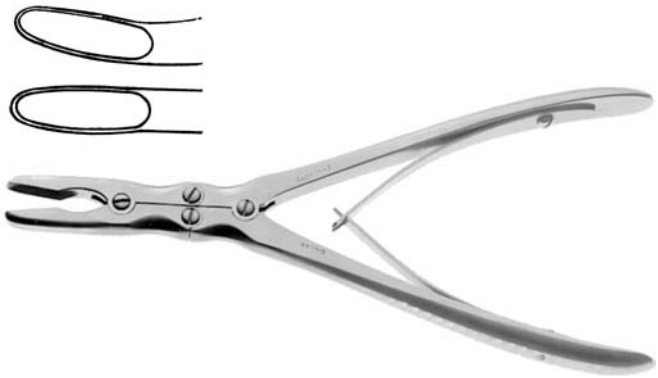
RONGEURS, BONE, DOUBLE ACTION

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



30-1298 STILLE-HORSLEY Bone Cutting Forceps, double-action, curved shaft, angular jaw.
Length 10½″ (267mm)





STILLE-LISTON Bone Cutting Forceps, double-action.
Length 10½″ (267mm)

30-1295 Straight
30-1296 Curved

RONGEURS, BONE, DOUBLE ACTION



	STILLE-LUER Rongeurs		
	Bite		10mm
	Length	8½″	(216mm)
53-1130	Straight		
53-1131	Curved		
	Bite		5mm
	Length	9½″	(229mm)
53-1133	Angular		
53-1118	Angular, flat lower jaw		



	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 curve		



53-1095	ZAUFAL-JANSEN Rongeur, double-action, curved.		
	Bite		(4mm x 30mm)
	Length	6¾″	(171mm)

RONGEURS, BONE, SINGLE ACTION

53-1040 ADSON Cranial Rongeur, straight.

Bite		(8mm)
Length	8″	(203mm)



53-1035 BACON Cranial Rongeur, angular.

Bite	3/16″	(5mm)
Length	7 3/4″	(197mm)



53-1102 BEYER LEMPERT Rongeur, curved.

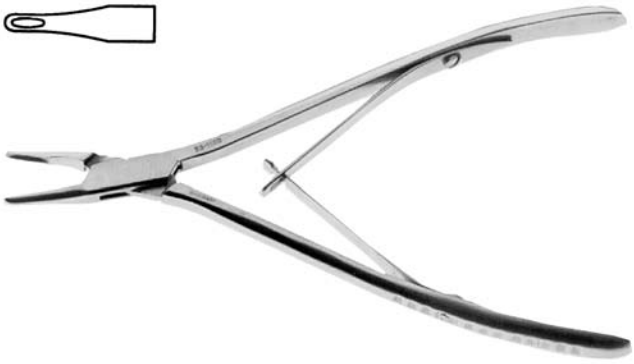
Bite	1/16″	(2mm)
Length	6 1/8″	(156mm)



RONGEURS, BONE, SINGLE ACTION



53-1030 DE VILBISS Cranial Rongeur, with one extra blade.
Length 8 1/16″ (205mm)



53-1108 LEMPERT Rongeur, straight.
Bite 1/16″ (2mm)
Length 6 1/8″ (156mm)



30-1310 LISTON Bone Cutting Forceps
Length 5 1/2″ (140mm)

RONGEURS, BONE, SINGLE ACTION

	LUER Bone Rongeurs		
	Bite	¼″	(6mm)
	Length	7″	(178mm)
53-1010	Straight		
53-1011	Curved		

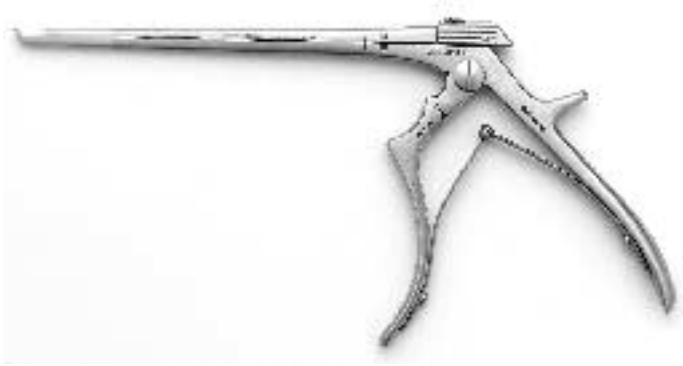


	REINER Bone Rongeurs, curved.		
	Length	7″	(178mm)
53-1015	Bite		(3mm x 13mm)
53-1016	Bite		(4mm x 14mm)

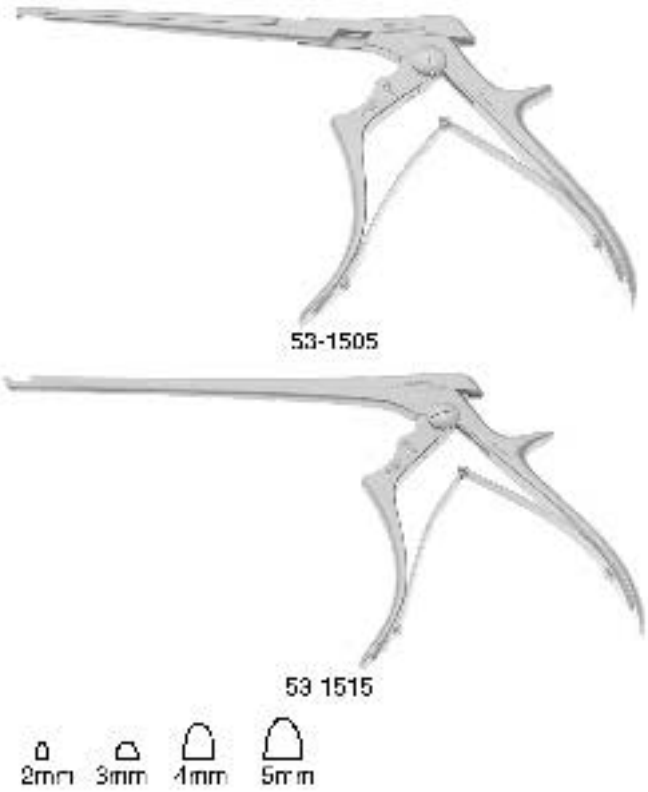


RONGEURS, CERVICAL, DETACHABLE

	RAPIDCLEAN™ Detachable Cervical Rongeurs		
	Bite Size	Angle	Length
53-1544CD	3 mm	40° UP	7″ (177.8 mm)
53-1545CD	3 mm	90° UP	7″ (177.8 mm)
53-1552CD	3 mm	40° UP	9″ (228.6 mm)
53-1553CD	3 mm	90° UP	9″ (228.6 mm)
53-1560CD	3 mm	40° UP	6″ (152 mm)
53-1561CD	3 mm	90° UP	6″ (152 mm)
53-1546CD	4 mm	40° UP	7″ (177.8 mm)
53-1547CD	4 mm	90° UP	7″ (177.8 mm)
53-1554CD	4 mm	40° UP	9″ (228.6 mm)
53-1555CD	4 mm	90° UP	9″ (228.6 mm)
53-1562CD	4 mm	40° UP	6″ (152 mm)
53-1563CD	4 mm	90° UP	6″ (152 mm)
53-1540CD	1 mm	40° UP	7″ (177.8 mm)
53-1541CD	1 mm	90° UP	7″ (177.8 mm)
53-1548CD	1 mm	40° UP	9″ (228.6 mm)
53-1549CD	1 mm	90° UP	9″ (228.6 mm)
53-1556CD	1 mm	40° UP	6″ (152 mm)
53-1557CD	1 mm	90° UP	6″ (152 mm)
53-1542CD	2 mm	40° UP	7″ (177.8 mm)
53-1543CD	2 mm	90° UP	7″ (177.8 mm)
53-1550CD	2 mm	40° UP	9″ (228.6 mm)
53-1551CD	2 mm	90° UP	9″ (228.6 mm)
53-1558CD	2 mm	40° UP	6″ (152 mm)
53-1559CD	2 mm	90° UP	6″ (152 mm)



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
53-1500C	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)

53-1040 ADSON Cranial Rongeur, straight.

Bite		(8mm)
Length	8″	(203mm)



53-1035 BACON Cranial Rongeur, angular.

Bite	3/16″	(5mm)
Length	7¾″	(197mm)





53-1030 DE VILBISS Cranial Rongeur, with one extra blade.

Length	8 1/16″	(205mm)

RONGEURS, CRANIAL



53-1055	STOOKEY Cranial Rongeur, angular.		
	Bite		(3mm)
	Length	7 3/8″	(187mm)

RONGEURS, KERRISON



32-3426	SPURLING-KERRISON Rongeur, Up Cut 40°		
	Bite	3mm	
	Length	8″	(20.3cm)

RONGEURS, MICRO



	DECKER Rongeurs, alligator action.		
	Bite		2mm x 6mm
	Length	6″	(152mm)
53-4000	Straight		
53-4002	Curved left		

RONGEURS, RIB

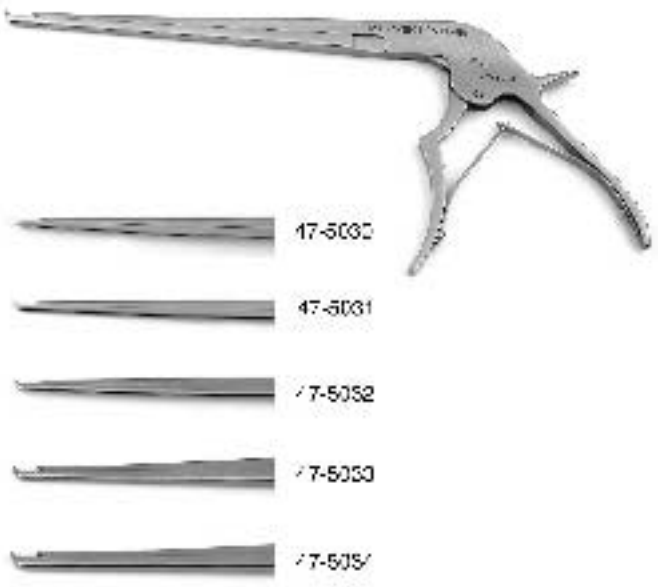


56-8040	DALE First Rib Rongeur, double-action.		
	Bite	⅛″	3mm
	Length	14½″	(368mm)

RONGEURS, SHAVERS

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



SAWS/HANDLES/GUIDES



	BAILEY Gigli Saw Guides		
	Length	12″	(305mm)
14-1020	Straight		
14-1021	Curved		



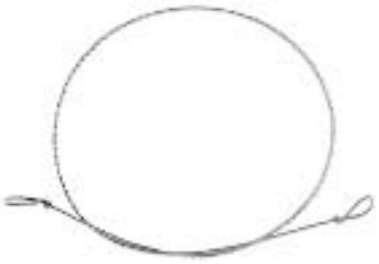
	GIGLI Saw handles, one pair.			
11-1015	Loop	Length	1¾″	(44mm)
11-1016	Solid	Length	2″	(51mm)



	GIGLI Twisted Wire Saws, package of ten.		
75-1003	Length	12″	(305mm)
75-1004	Length	20″	(508mm)

OLIVECRONA-GIGLI Wire Saws, STILLE type, package of ten.

75-1018	Length	12″	(305mm)
75-1019	Length	16″	(406mm)
75-1020	Length	20″	(508mm)





14-1025	POPPEN Gigli Saw Guide		
	Length	11″	(279mm)

STRULLY Gigli Saw Handles, one pair.

11-1020C	Loop	Length	3¼″ (95mm)
11-1021C	Solid	Length	3½″ (89mm)



TYLER-GIGLI Wire Saws, large cut, package of ten.

75-1012	Length	20″	(508mm)
75-1013	Length	12″	(305mm)

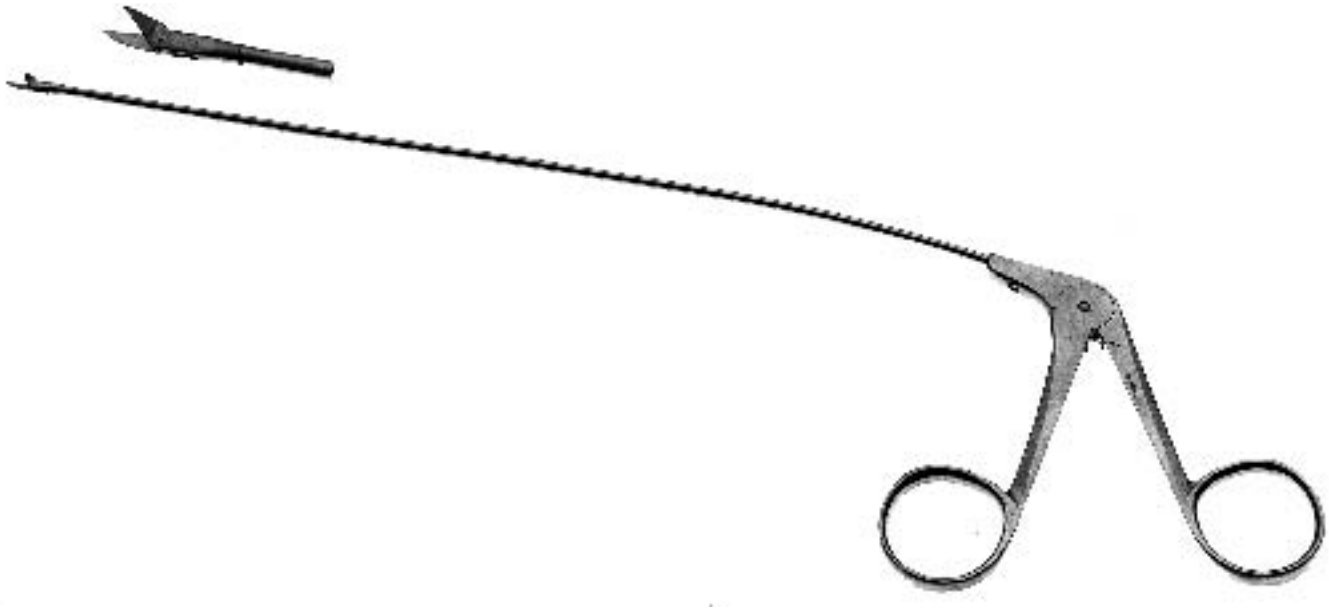


SCISSORS, ALLIGATOR



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 7⅛″	(200mm)
54-5607	Straight	
54-5608	Curved left	
54-5609	Curved right	

SCISSORS, ALLIGATOR

54-1091	SWEET Scissors, straight, alligator blades.		
	Blade length	3/8″	(10mm)
	Shaft length	5½″	(140mm)



SCISSORS, DURAL

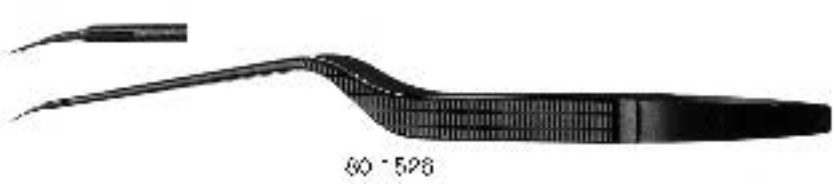


54-1055	FRAZIER Dural Scissors		
	Length	6¾″	(171mm)

SCISSORS, MICRO, BAYONET







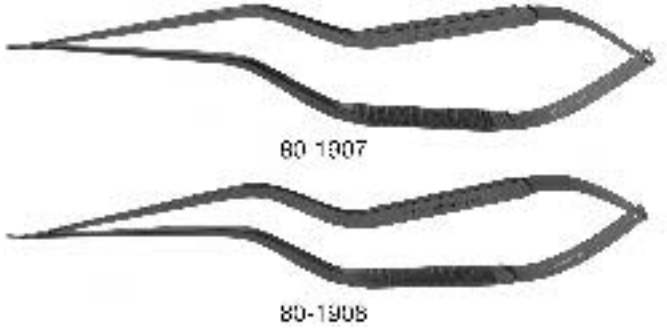
	MALIS Scissors, titanium, bayonet.		
	Working distance	3¾″	(95mm)
	Length	9½″	(235mm)
80-1522	Straight, regular tip		
80-1524	Straight, fine tip		
80-1523	Curved up, regular tip		
80-1525	Curved up, fine tip		
80-1526	Curved down, regular tip		

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	Staight tip	4mm	
80-1908	30° curved tip	4mm	



SCISSORS, MICROSURGICAL

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



SCISSORS, MICROSURGICAL

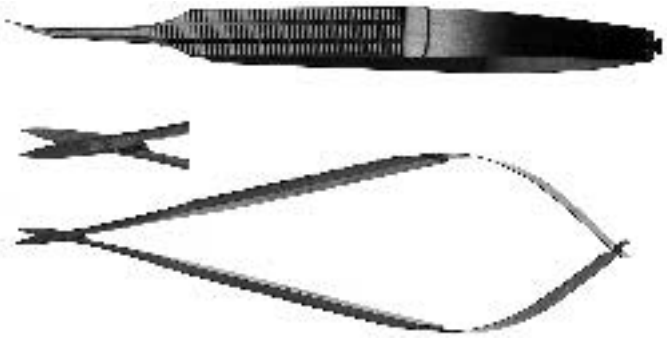






E-SERIES* XF Scissors, titanium.

	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 6¾″	(171mm)
80-1520	Fine tip	
80-1521	Curved fine tip	

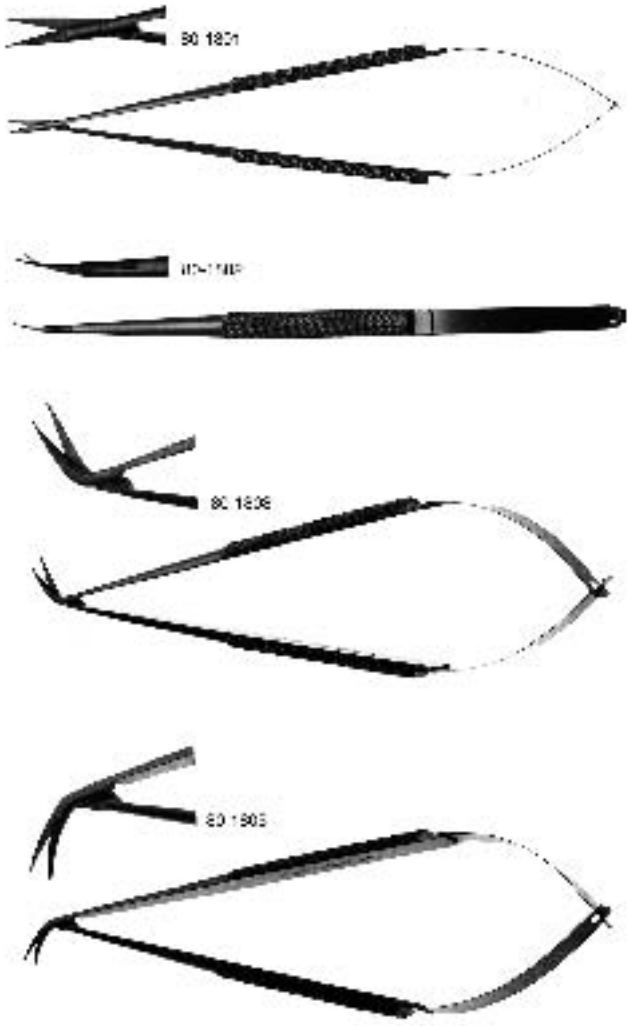


MICRO Scissors

	Length 5½″	(140mm)
80-2005	Straight tip	
80-2006	Curved tip	
	Length 7″	(178mm)
80-2015	Straight tip	
80-2016	Curved tip	

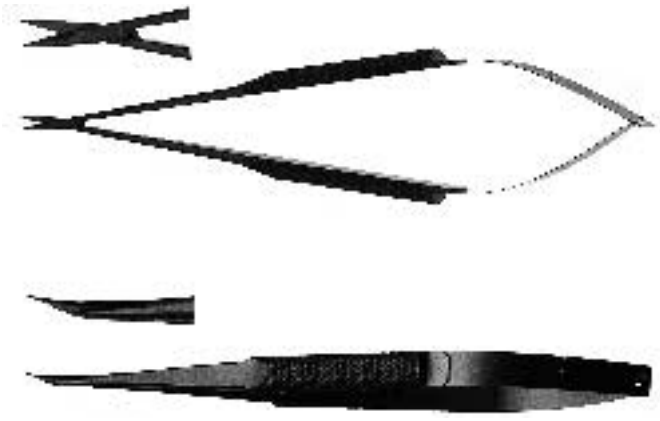
MICROVASC* Scissors, titanium
Length 7″ (178mm)

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



SCISSORS, NEUROLOGICAL



ADSON Ganglion Scissors, sharp/sharp.
Length 6¼″ (159mm)

54-1005 Straight
54-1006 Curved



54-1041 DANDY Trigeminal Scissors, angled shaft, curved sharp tips.
Length 7¾″ (197mm)



54-1015 MALIS Neurological Scissors, curved, semi-sharp points.
Length 7″ (178mm)



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



54-1046 STRULLY Neurological Scissors, curved dissecting tip.
Length 8″ (203mm)

SCISSORS, NEUROLOGICAL

54-1050 TAYLOR Dural Scissors
Length 5¾″ (146mm)



SEPARATORS

65-1104 DORSEY Dural Separator, with groove in blade for knife.
Blade width 3⁄16″ (5mm)
Blade length 1 1⁄16″ (17mm)
Total length 6″ (165mm)



65-1100 FRAZIER Dural Separator, tapered blade width 1⁄16″ to 1⁄8″ (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)

SPATULAS/SPOONS AND ELEVATORS, 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)



	DAVIS Brain Spatulas, double-ended, malleable, stainless steel.		
	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)



	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	5⁄16″	(8mm)
	Cup length	½″	(13mm)
60-1002	No. 3 Cup		
	Cup width	5⁄16″	(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)

SPETZLER NEURO-VASCULAR INSTRUMENT KIT



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°		
80-1905	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 Intrument Case		

SPONGES

81-1000	PEANUT SECTO™ Dissectors, sterile, X-ray detectable, diameter 3/8″ (9.5mm). 96 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). 96 packages of 5 each, 4 dispenser boxes to case.
81-1002	CHERRY SECTO™ Dissectors, sterile, X-ray detectable, diameter 3/8″ (9.5mm). 96 packages of 5 each, 4 dispenser boxes to case.
81-1006	TRIANGLE SECTO™ Dissectors, sterile, X-ray detectable, diameter 1/2″ (13mm). 96 packages of 5 each, 4 dispenser boxes to case.



SPONGES/PATTIES

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
80-1406	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



STRIPS, NEUROSURGICAL



	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



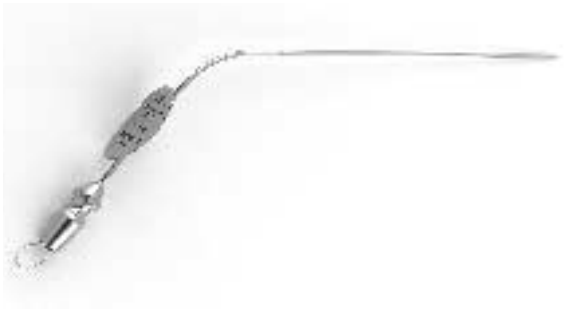
	ADSON Suction Tube with Obturator, Curved		
	Working Distance	6″	(15.2cm)
32-3724	Diameter	7FR	
32-3725	Diameter	9FR	
32-3726	Diameter	11FR	



	ADSON Suction Tubes, curved tip, with thumb piece to control suction.		
70-1146	Diameter	12 Fr.	
	Length	5 1/2″	(140mm)
70-1148	Diameter	15 Fr.	
	Length	7 1/2″	(191mm)

Tube length is measured from top of socket to tip.

	BARON Suction Tube, Curved	
	Diameter	Working Distance
32-3700	3FR	3″, (7.5cm)
32-3701	3FR	4″, (10cm)
32-3717	5FR	3″, (7.5cm)
32-3715	5FR	4″, (10cm)
32-3718	7FR	3″, (7.5cm)
32-3716	7FR	4″, (10cm)

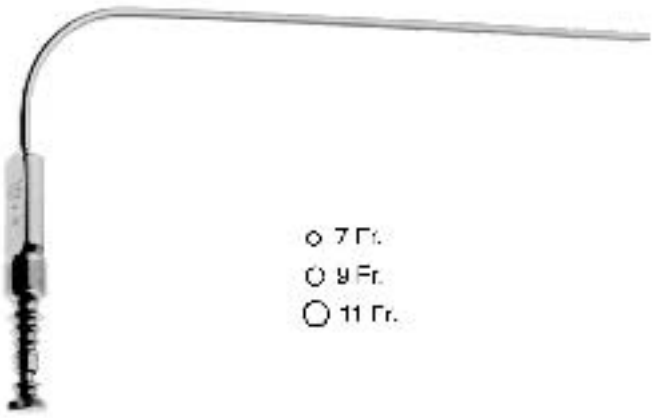




	FRAZIER Suction Tubes, straight, with thumb piece to control suction.		
	Tubing length	5¼″	(133mm)
70-1100	Diameter	7 Fr.	
70-1101	Diameter	9 Fr.	
70-1102	Diameter	11 Fr.	



	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.

SUCTION, TUBES



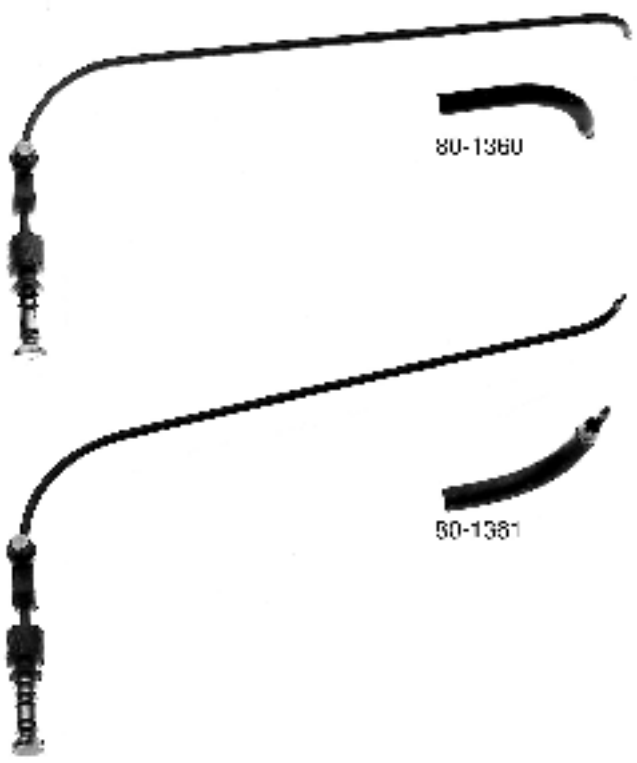
	FUKUSHIMA Style, Suction Tubes, Malleable Tube		
	Jaw Width	Length	
67-7583	3mm	8″	(20.3cm)
67-7850	4FR	6 1/4″	(15.9cm)
67-7851	5FR	6 1/4″	(15.9cm)
67-7852	6FR	6 1/4″	(15.9cm)
67-7853	7FR	6 1/4″	(15.9cm)
67-7854	8FR	6 1/4″	(15.9cm)
67-7855	9FR	6 1/4″	(15.9cm)
67-7856	4FR	7″	(17.8cm)
67-7857	5FR	7″	(17.8cm)
67-7858	6FR	7″	(17.8cm)
67-7859	7FR	7″	(17.8cm)
67-7860	8FR	7″	(17.8cm)
67-7861	9FR	7″	(17.8cm)
67-7862	4FR	8″	(20.3cm)
67-7863	5FR	8″	(20.3cm)
67-7864	6FR	8″	(20.3cm)
67-7865	7FR	8″	(20.3cm)
67-7866	8FR	8″	(20.3cm)
67-7867	9FR	8″	(20.3cm)



	FUKUSHIMA Style, Suction Tube, Malleable tube, tapered teardrop		
	Length	9″	(22.9cm)
	Tip Width		
67-7868	4FR		
67-7869	5FR		
67-7870	6FR		
67-7871	7FR		
67-7872	8FR		
67-7873	9FR		

HARDY Suction Tubes, angular with thumb control, insulated.

	Diameter	7 Fr.	
	Length	7¼″	(184mm)
80-1360	Curved left		
80-1361	Curved right		



MALIS-FRAZIER Suction Tubes, black anodized.

	Diameter	7 Fr.	
70-1103	Length	4¼″	(108mm)
70-1104	Length	7½″	(191mm)

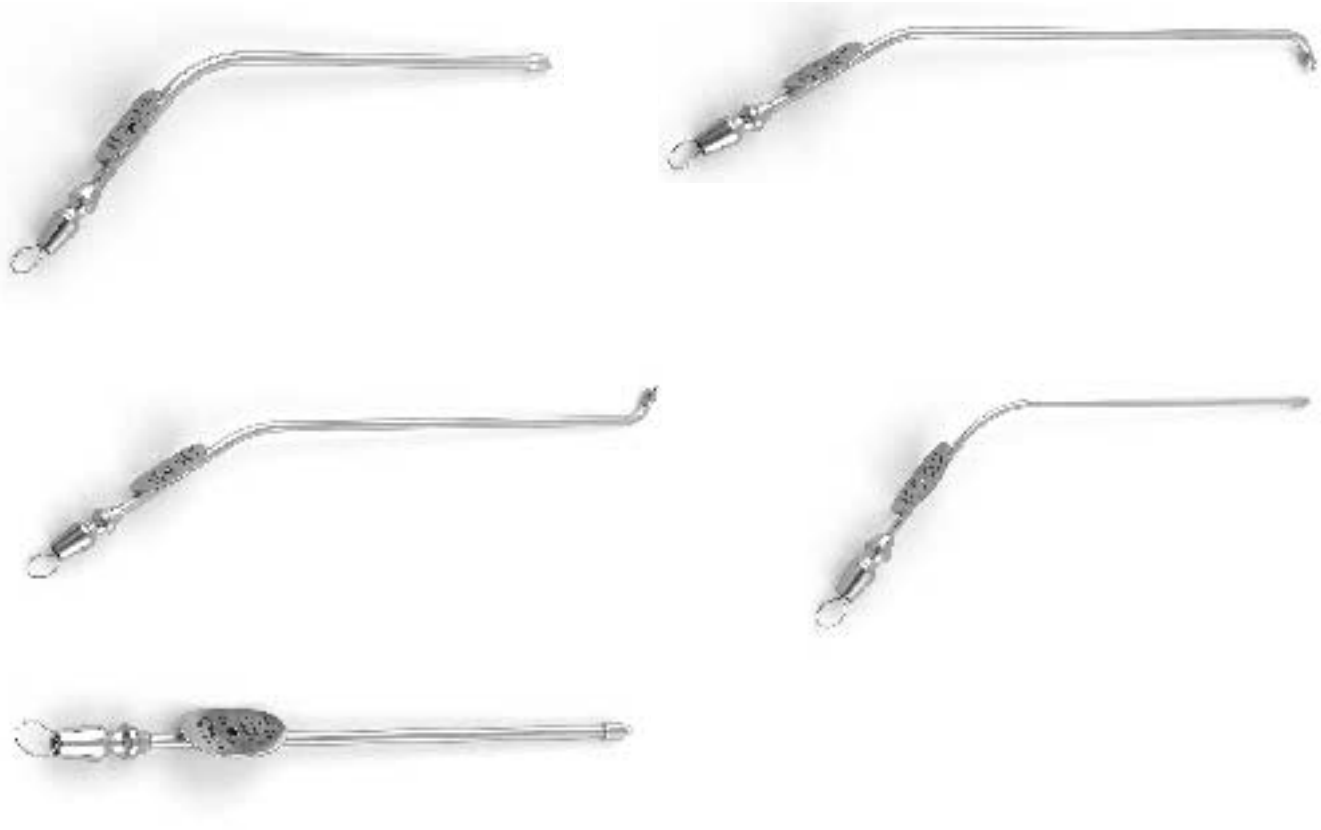


PRIBRAM Suction Tubes, with thumb piece to control suction.

	Tubing length	5½″	(140mm)
70-1128	Diameter	16 G.	
70-1130	Diameter	18 G.	



SUCTION, TUBES

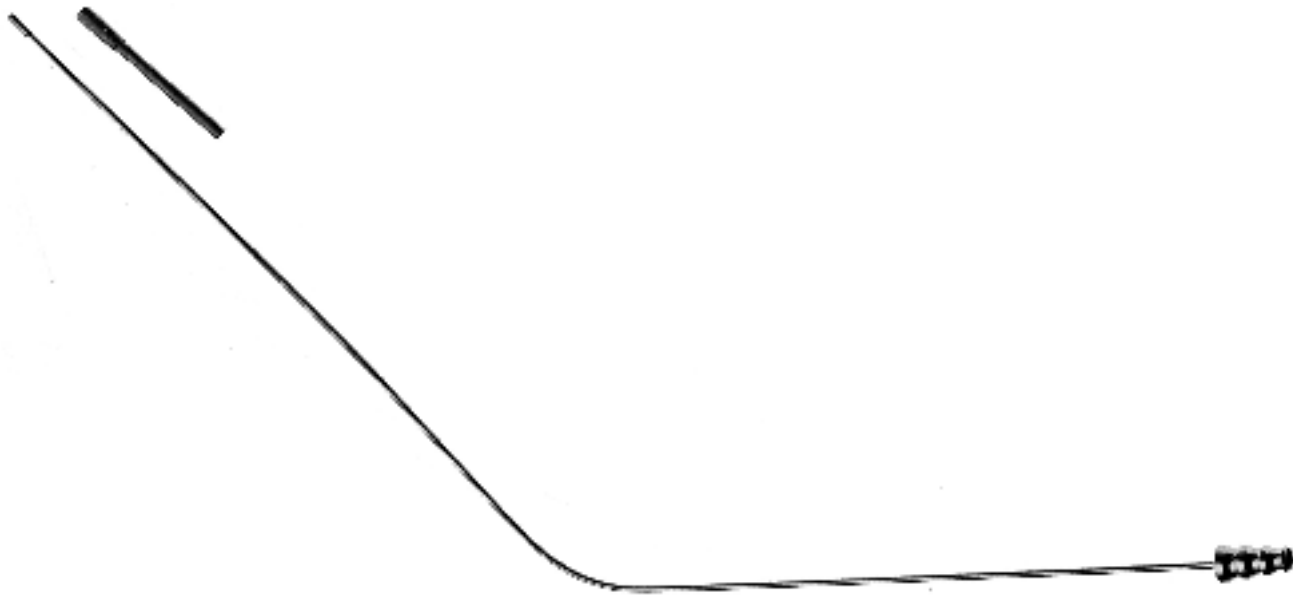


RHOTON-MERZ Suction Tube

				Working Distance
32-3702	5FR	Curved Down	Tissue Protecting Tip	5⅛″ (13cm)
32-3703	7FR	Curved Down	Tissue Protecting Tip	5⅛″ (13cm)
32-3704	10FR	Curved Down	Tissue Protecting Tip	5⅛″ (13cm)
32-3708	5FR	Curved Up	Tissue Protecting Tip	5⅛″ (13cm)
32-3709	7FR	Curved Up	Tissue Protecting Tip	5⅛″ (13cm)
32-3710	10FR	Curved Up	Tissue Protecting Tip	5⅛″ (13cm)
32-3719	3FR	Curved		4″ (10cm)
32-3720	5FR	Curved		4″ (10cm)
32-3721	7FR	Curved		4″ (10cm)
32-3722	10FR	Curved		4″ (10cm)
32-3723	12FR	Curved		4″ (10cm)
32-3705	5FR	Curved		5″ (13cm)
32-3706	7FR	Curved		5″ (13cm)
32-3707	10FR	Curved		5″ (13cm)
32-3711	3FR	Straight	Tissue Protecting Tip	3.3″ (8.5cm)
32-3712	5FR	Straight	Tissue Protecting Tip	3.3″ (8.5cm)
32-3713	7FR	Straight	Tissue Protecting Tip	3.3″ (8.5cm)
32-3714	10FR	Straight	Tissue Protecting Tip	3.3″ (8.5cm)

	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)





	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

SUPPORTER,VESSEL

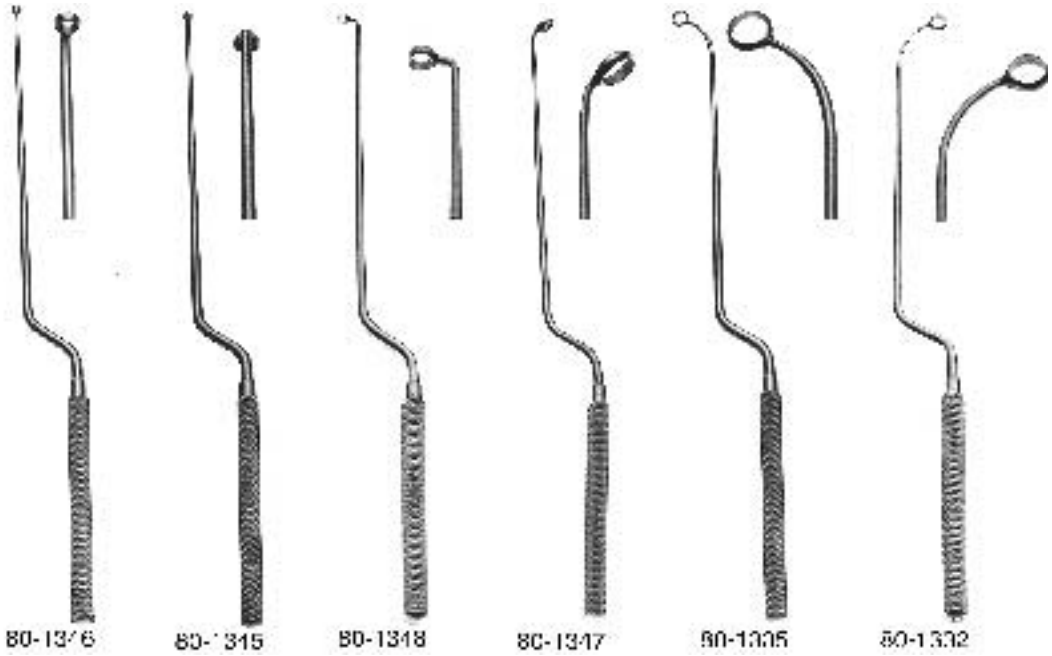


80-1534	MALIS Vessel Supporter, titanium handle, stainless steel shaft, two prong. Length 7 3/8″ (187mm)	

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 C_3 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	



	HARDY Curettes, bayonet.		
	Working distance	4¾″	(120mm)
	Total length	9¼″	(235mm)
	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



80-1311



80-1312



80-1325



80-1326



80-1329

	HARDY Enucleators.		
	Working distance	4¾″	(120mm)
	Length	9¼″	(235mm)
	Type		Tip Width
80-1311	Left micro		2.4mm
80-1312	Right micro		2.4mm
80-1325	Left		2.6mm
80-1326	Right		2.6mm
80-1329	Reverse curve		2.6mm

The flat of the handle should be down for orientation of working end through the speculum.

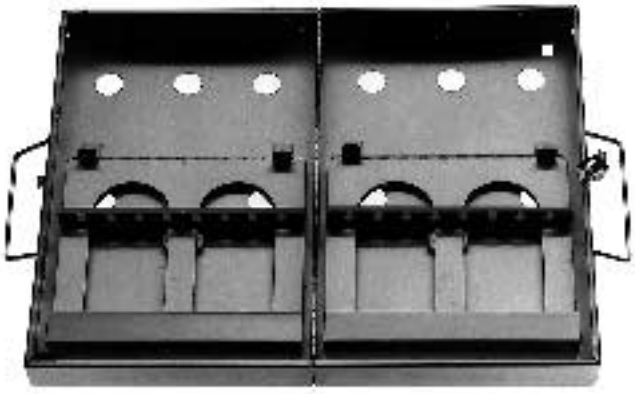
80-1328 HARDY Fork, bayonet, three prong.

Working distance	3½″	(89mm)
Length	8 1/16″	(235mm)



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 Knife Handle, bayonet.

Working distance	3½″	(90mm)
Total length	8 1/16″	(205mm)

80-1313 Vertical
80-1314 Lateral



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.



TRANSSPHENOIDAL, HARDY



	HARDY Micro Dissector, bayonet.			
	Working distance		4¾″	(120mm)
	Length		9¼″	(235mm)
	Type			Tip Width
80-1315	Angled up			2.8mm
80-1316	Angled down			2.8mm

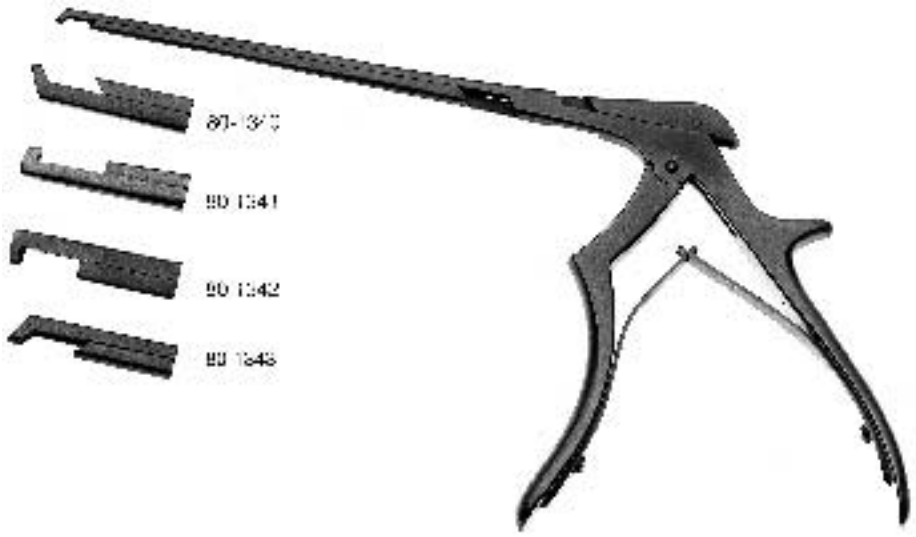


	HARDY Nasal Bivalve Specula, black anodized finish, except knob.			
80-1350	Small	Length	2¾″	(70mm)
80-1351	Acromegalic	Length	3½″	(90mm)
80-1352	Standard	Length	3⅛″	(80mm)



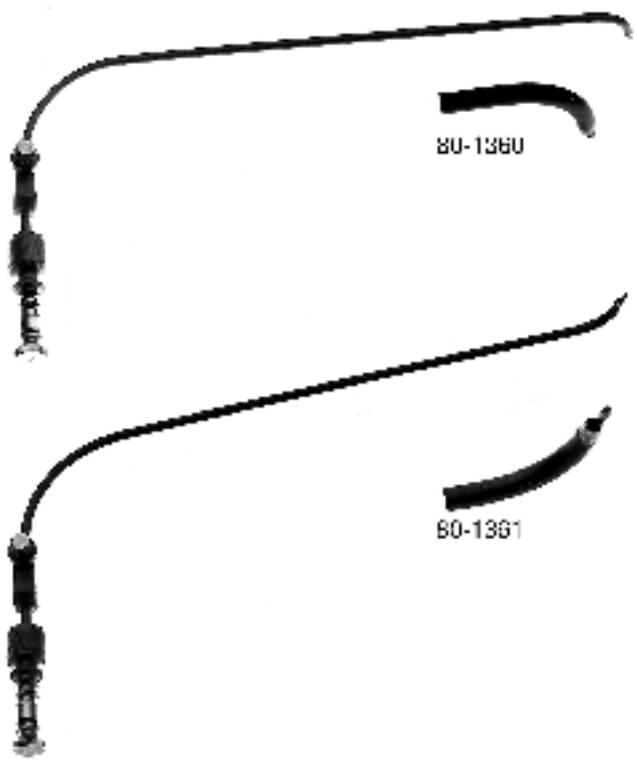
80-1336	HARDY Pituitary Spoon, bayonet, malleable.		
	Working distance	4¾″	(120mm)
	Length	9¼″	(235mm)

TRANSSPHENOIDAL, HARDY



	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



HARDY Suction Tubes, angular with thumb control, insulated.

	Diameter	7 Fr.	
	Length	7¼″	(184mm)
80-1360	Curved left		
80-1361	Curved right		



80-1366	HARDY Transsphenoidal Mirror, bayonet shape.		
	Working distance	4½″	(114mm)
	Tip width		5.0mm
	Length	9″	(229mm)

TRAYS, 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.

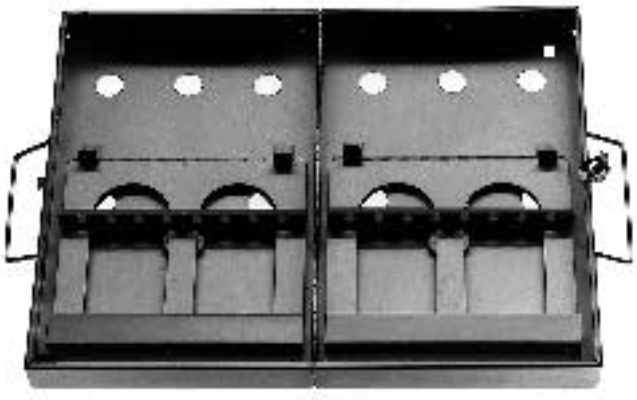
Width	7¼″	(184mm)
Length	9¾″	(248mm)



TRAYS STAINLESS STEEL, INSTRUMENTS

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)



TRAYS, STERILIZING, LIGHTWEIGHT INSTRUMENTS



CODMAN's Micro Osseous Dissection instruments are 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.

	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)
46-2605	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 Osseous Dissection Instruments	



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

TRAYS, STERILIZING, LIGHTWEIGHT INSTRUMENTS

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)

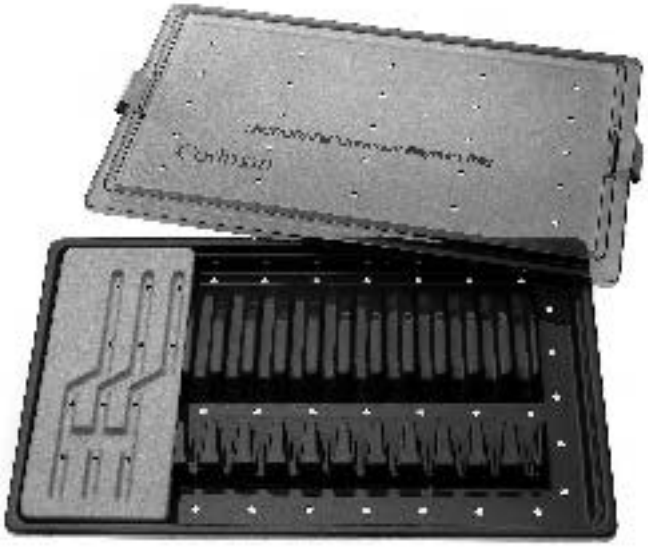
MICROCARE™ Polytec Cases have silicone bumpers for instrument tip protection.



ULTEM™ is a trademark of General Electric.

80-1914 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)



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 appliers. 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 appliers.		
	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 appliers.		
	Length	12″	(305mm)
	Width	10½″	(267mm)
	Depth	1½″	(38mm)

*ULTEM™ is a trademark of General Electric.

TRAYS, STERILIZING, LIGHTWEIGHT SMALL DEVICES

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, STAINLESS STEEL INSTRUMENT





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.

Codman

TRAYS, STERILIZING, STAINLESS STEEL INSTRUMENT

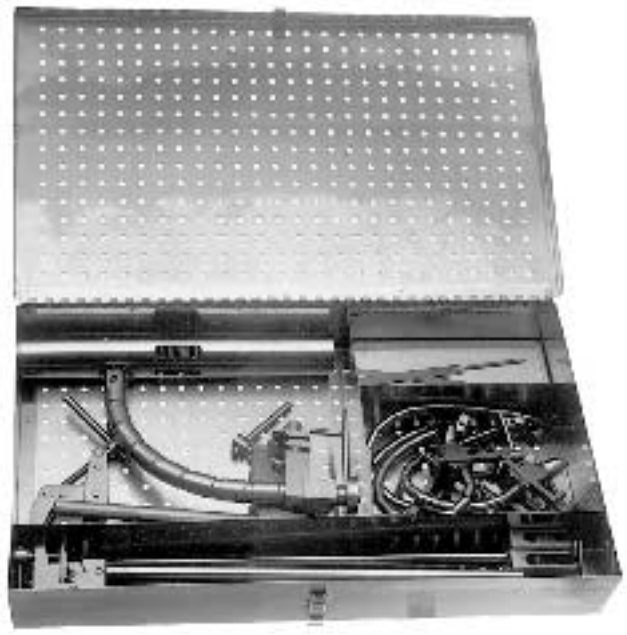
50-1514 GREENBERG Universal Retractor Case, with four compartments for various components.

Compartment Dimensions

	Compartment # 1	Compartment # 2
Length	10⅜″ (264mm)	17″ (432mm)
Width	7¾″ (197mm)	2⅛″ (54mm)
	Compartment # 3	Compartment # 4
Length	6¾″ (171mm)	6¾″ (171mm)
Width	4⅝″ (117mm)	3⅛″ (79mm)

Case Dimensions

Length	17″	(432mm)
Width	10″	(254mm)
Depth	2⅜″	(60mm)



TRAYS, STERILIZING, STAINLESS STEEL MISCELLANEOUS, SPINAL

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:	⅝″ (16mm)

Note: Instruments not included





EARS/EYES/NOSE/THROAT

METRIC
INCHES
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

APPLICATOR

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



CALIPERS

32-3326	CASTROVIEJO Caliper, Straight		
	Length	6.7″	17cm



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

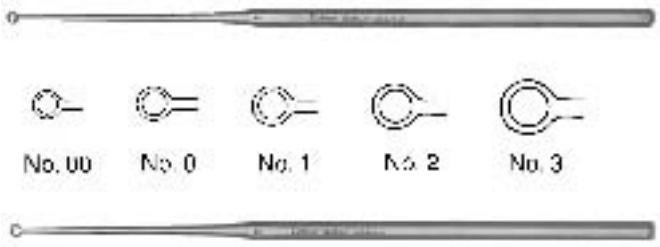


CURETTES

	BARNHILL Adenoid Curettes			
	Length		8½″	(216mm)
23-6760	No. 0	Tip size	½″	(13mm)
23-6761	No. 1	Tip size	3/5″	(15mm)
23-6762	No. 2	Tip size	¾″	(19mm)
23-6763	No. 3	Tip size	8/10″	(20mm)
23-6764	No. 4	Tip size	9/10″	(23mm)

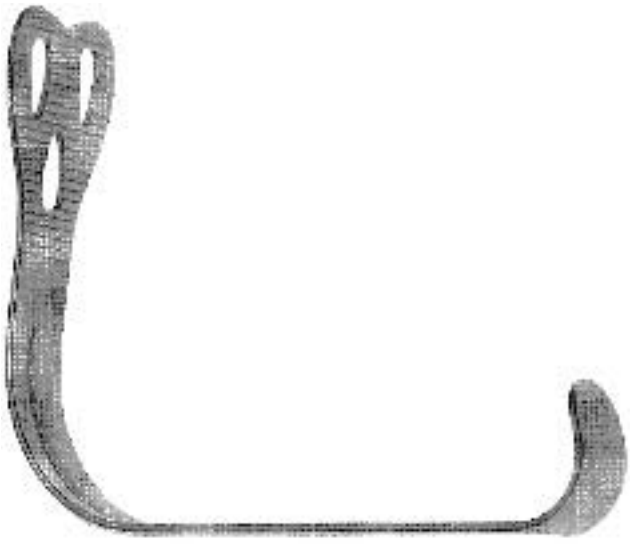


CURETTES



	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	

DEPRESSORS



	WIEDER Tongue Depressors, fenestrated-serrated blade.		
83-6505	Small blade width	1 3/16″	(30mm)
83-6506	Large blade width	1⅜″	(35mm)

25-4002	DELABORDE Tracheal Dilator, tri-valve.		
	Jaw width	3/16″	(5mm)
	Jaw thickness	1/4″	(6mm)
	Total spread	11 5/16″	(33mm)
	Length	5 1/4″	(133mm)



	JACKSON-TROUSSEAU Forceps		
	Retractor/Dilator, Ring Handle		
32-3616	Infant		
32-3617	Child		
32-3618	Adult		



	TROUSSEAU Tracheal Dilators, bi-valve.		
25-4000	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)



DISSECTORS



65-6600 HURD Tonsil Dissector and Pillar Retractor, double-ended.

Length	8¾″	(222mm)
Tip sizes	½″	(13mm)
	3⁄10″	(7.6mm)

ELEVATORS



65-6562 BALLENGER Septum Elevator, double-ended.

Blade width	¼″	(6mm)
Length	9″	(228mm)



65-6620 FREER Septum Elevator, double-ended, sharp, and blunt.

Blade width		(4.5mm)
Total length	71⁄8″	(181mm)
Length	71⁄4″	(184mm)

FORCEPS, CATHETER



30-4340 MAGILL Endotracheal Catheter Introducing Forceps

Length	91⁄2″	(241mm)

Codman

FORCEPS, DRESSING



	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, EAR

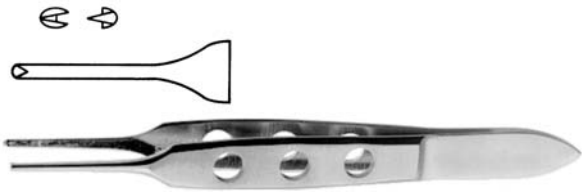
30-6951	HARTMANN Ear Forceps, angular, serrated.		
	Shaft length	3½″	(89mm)
	Tip size	3/10″	(7.6mm)



30-6898	LUCAE Ear Forceps, bayonet shape.		
	Working distance	2¾″	(70mm)
	Length	5½″	(140mm)
	Tip width		2mm



FORCEPS, EYE



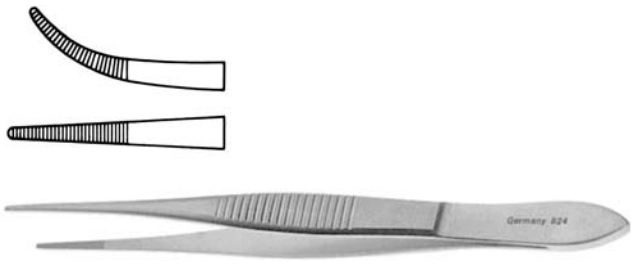
BISHOP HARMAN Iris Forceps, 1x2 teeth.

	Length	3¼″	(83mm)
30-6555	Standard	Tip width	.5mm
30-6556	Delicate	Tip width	.3mm



30-6557 BISHOP HARMAN Eye Dressing Forceps, straight.

Tip width		.4mm
Length	3⅜″	(86mm)



EYE Dressing Forceps

Tip width		1mm
Length	4″	(102mm)
30-6520	Straight	
30-6524	Curved	



30-6695 NUGENT Utility Forceps, smooth jaw, angled tip.

Tip width		.5mm
Length	4″	(102mm)

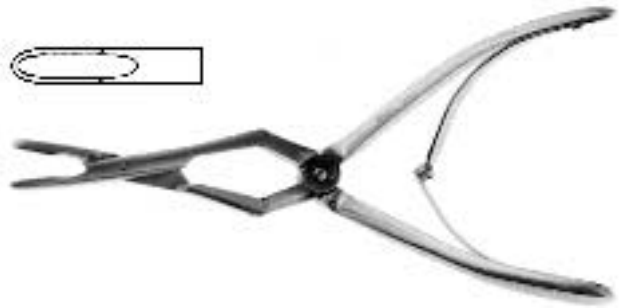


30-6585 VON GRAEFE Fixation Forceps, without teeth.

Tip width		2mm
Length	4¾″	(111mm)

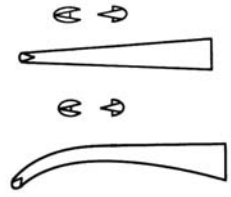
FORCEPS, SEPTUM

30-7150	JANSEN-MIDDLETON Septum Cutting Forceps, solid cup jaws.		
	Working distance	4″	(102mm)
	Cup size		5x15mm
	Length	7″	(178mm)



FORCEPS, TISSUE

	IRIS Tissue Forceps, 1x2 teeth.		
	Tip width		.5mm
	Length	4″	(102mm)
30-6530	Straight		
30-6532	Curved		





FORCEPS, TONGUE SEIZING

30-4330	COLLIN Tongue Seizing Forceps		
	Length	6½″	(165mm)



FORCEPS, TONSIL SEIZING



	WHITE Tonsil Seizing Forceps		
30-7315	Length	7″	(178mm)
30-7316	Length	9″	(229mm)

GAGS



	JENNINGS Mouth Gags		
31-6501	Spread	4½″	(114mm)
31-6502	Spread	6″	(152mm)

HOOKS, EYE



	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, NASAL

	JOSEPH Nasal Hooks, double-prong.		
	Length	6¼″	(159mm)
38-6645	Tip width	1/16″	(2mm)
38-6646	Tip width	3/16″	(5mm)
38-6647	Tip width	¼″	(7mm)
38-6648	Tip width	⅜″	(10mm)



38-6642	JOSEPH Nasal Hook, single-prong.		
	Length	6¼″	(159mm)



HOOKS, SKIN



	CONVERSE Skin Hooks, sharp.		
	Length	7¼″	(184mm)
38-6638	Small hook size	⅛″	(3mm)
38-6640	Large hook size	⅕″	(5mm)



38-2520	GILLES Skin Hook, sharp.		
	Length	7⅛″	(181mm)
	Hook size	⅛″	(3mm)

KNIFE

	BALLENGER Swivel Knives, straight.		
	Total length	8½″	(216mm)
40-6770	Blade width		3mm
40-6771	Blade width		4mm
40-6772	Blade width		5mm

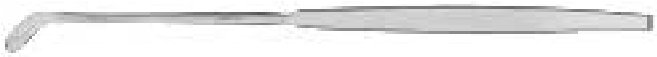


KNIFE



40-6775 BALLENGER Swivel Knife, bayonet shape.

Working distance	3½″	(89mm)
Blade width		5mm
Total length	8½″	(216mm)



40-6852 FISHER Tonsil Knife

Blade length	⅝″	(16mm)
Length	9″	(228mm)

NEEDLE HOLDERS



64-6502 BARRAQUER Needle Holder, straight, with catch.

Tip width		1mm
Length	6″	(150mm)

RASP



52-1005 JOSEPH Periosteal Raspatory, sharp.

Working distance	1⅝″	(41mm)
Tip width	¼″	(6mm)
Length	6⅞″	(175mm)

RETRACTORS, EYE



50-6536 ROLLET Lachrymal Sac Retractor, four prong, sharp.

Length	5¼″	(133mm)

SCISSORS, CORNEAL

	CASTROVIEJO Corneal Scissors		
54-6571	Curved tip		
	Length	4¼″	(108mm)
54-6572	Angular jaw		
	Length	3¾″	(95mm)



SCISSORS, IRIS

	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, NASAL

54-6666	KNIGHT Nasal Scissors		
	Length	7″	(178mm)



SCISSORS, STRABISMUS

	CLASSIC STRABISMUS Scissors, blunt/blunt		
	Length	4½″	(114mm)
34-6517	Curved		



SCISSORS, STRABISMUS



STRABISMUS CLASSIC PLUS™ scissors, STELLITE™ edge inserts, blunt/blunt.
Length 4½″

36-5005	Straight
36-5006	Curved



STRABISMUS Scissors, blunt/blunt.
Length 4½″ (114mm)

54-6515	Straight
54-6517	Curved

SCISSORS, SUTURE



54-6630	WESCOTT Stitch Scissors, sharp/sharp.		
	Length	4¼″	(108mm)

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)

SCISSORS, TENOTOMY

	POTTS Scissor, Tenotomy, Curved		
	Length		
32-3585	6″	(15.2cm)	
32-3586	7″	(17.8cm)	
32-3587	8″	(20.3cm)	



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



	STEVENS Tenotomy Scissors			
54-6520	Straight	Length	4 1/8″	(105mm)
54-6521	Curved	Length	4 1/8″	(105mm)
54-6522	Straight	Length	4 5/8″	(118mm)
54-6523	Curved	Length	4 5/8″	(118mm)



54-6513	WESCOTT Tenotomy Scissors, blunt/blunt.		
	Length	4 1/4″	(108mm)



SCISSORS, TONSIL

54-1081	BOETTCHER Tonsil Scissors, double-edged, angled on side.		
	Length	7 1/4″	(184mm)



SNARES



	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



57-6546	TYDINGS Tonsil Snare, with tonsil snare wire.		
	Length	9″	(229mm)
	Wire length	4½″	(114mm)
	Wire diameter		.15mm

SPECULA, NASAL



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, NASAL

79-6667	TIECK-HALLE Nasal Speculum, infant.		
	Blade length	5/8″	(16mm)
	Length	5¼″	(133mm)



	VIENNA Nasal Specula		
	Length	5¼″ (133mm)	
79-6675	Small	Blade length	1″ (27mm)
79-6676	Medium	Blade length	1″ (28mm)
79-6677	Large	Blade length	1″ (32mm)



SUCTION, TUBES

	BARON Suction Tube, Curved	
	Diameter	Working Distance
32-3700	3FR	3″, 7.5cm
32-3701	3FR	4″, 10cm
32-3717	5FR	3″, 7.5cm
32-3715	5FR	4″, 10cm
32-3718	7FR	3″, 7.5cm
32-3716	7FR	4″, 10cm





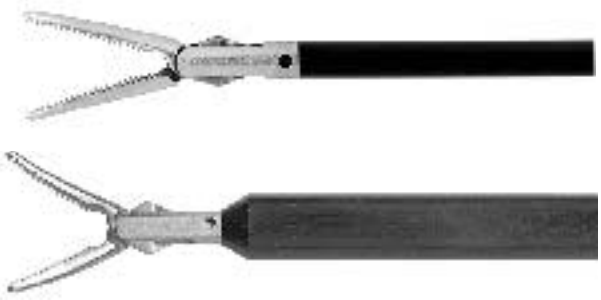


LAPAROSCOPIC INSTRUMENTS

METRIC
INCHES
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

LAPAROSCOPIC INSTRUMENTS, FORCEPS, DISSECTOR

	Forceps, Dissector MARYLAND, Straight, Double Action, Cross Serrations		
	Handle	Length	Width
68-1406	A	330mm	5mm
68-1409	A	330mm	10mm





68-1460	Forceps, Dissector KELLY, Straight, Double Action		
	Handle	Length	Width
	A	330mm	5mm

LAPAROSCOPIC INSTRUMENTS, FORCEPS, GRASPING

68-1400	Forceps, Tumor Grasper, Straight, Double Action, Blunt End Jaw		
	Handle	Length	Width
	C	330mm	5mm



See LAPAROSCOPIC INSTRUMENTS, HANDLE REFERENCE GUIDE on page LAP-8 for photo reference of the handle type.

LAPAROSCOPIC INSTRUMENTS, FORCEPS, GRASPING



68-1401	Forceps, Fenestrated Grasping, Straight, Double Action, Slightly Flat Jaw		
	Handle	Length	Width
	C	330mm	5mm



68-1402	Forceps, Grasper [MAXI], Straight, Double Action		
	Handle	Length	Width
	C	330mm	5mm





	Forceps, Grasping [JOHAN], Straight, Single Action, Slightly Flat Jaw			
		Handle	Length	Width
68-1403	22mm	C	330mm	5mm
68-1404	38mm	C	330mm	5mm

See LAPAROSCOPIC INSTRUMENTS, HANDLE REFERENCE GUIDE on page LAP-8 for photo reference of the handle type.

LAPAROSCOPIC INSTRUMENTS, FORCEPS, GRASPING

68-1405 Forceps, Grasping, [DEBAKEY MARYLAND], Straight, Double Action, Atraumatic Teeth

Handle	Length	Width
C	330mm	5mm



68-1407 Forceps, Grasping, Endo Clinch, Straight, Double Action, Extremely Atraumatic, Serrated Jaw

Handle	Length	Width
C	330mm	5mm



Forceps, Grasping [ALLIS], Straight, Double Action

		Handle	Length	Width
68-1408	Rounded Jaw	C	330mm	5mm
68-1412	Atraumatic, 3X4 Teeth	C	330mm	5mm





68-1410 Forceps, Standard Grasping, Straight, Double Action, Cross Serrated Jaw

Handle	Length	Width
C	330mm	5mm



68-1411 Forceps, Wave Grasping DG, Straight, Single Action, Atraumatic, Wave Like Serrated Jaw

Handle	Length	Width
C	330mm	5mm



See LAPAROSCOPIC INSTRUMENTS, HANDLE REFERENCE GUIDE on page LAP-8 for photo reference of the handle type.

LAPAROSCOPIC INSTRUMENTS, FORCEPS, GRASPING





Forceps, Grasping [Babcock], Straight, Double Action

	Handle	Length	Width
68-1413	C	330mm	10mm
68-1414	C	330mm	5mm



68-1415 Forceps, Grasping, TC [Collin], Straight, Double Action, 30MM Jaw

Handle	Length	Width
C	330mm	10mm



68-1420 Forceps, Clamp Grasping [Mixter], 90 Degree Angled, Double Action

Handle	Length	Width
C	330mm	5mm

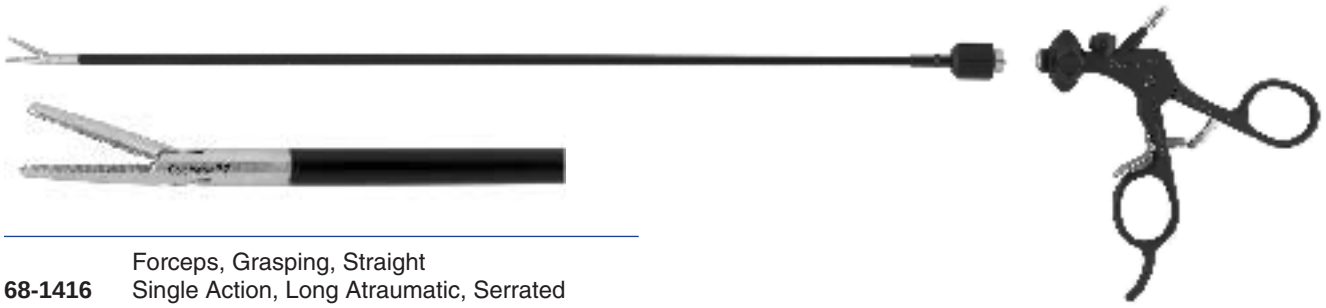


68-1421 Forceps, Grasping [Kocher], Straight, Double Action, Axial Serrations, 60mm Jaw

Handle	Length	Width
C	330mm	10mm

See LAPAROSCOPIC INSTRUMENTS, HANDLE REFERENCE GUIDE on page LAP-8 for photo reference of the handle type.

LAPAROSCOPIC INSTRUMENTS, FORCEPS, GRASPING, DETACHABLE



Forceps, Grasping, Straight

68-1416	Single Action, Long Atraumatic, Serrated		
	Handle	Length	Width
	B	450mm	5mm
68-1417	Double Action, Blunt Tip-w/Reservoir, Serrated		
	Handle	Length	Width
	B	450mm	5mm



68-1418	Forceps, Grasping, [Maxi], Straight, Double Action		
	Handle	Length	Width
	B	450mm	5mm



68-1419	Forceps, Grasping, Alligator, Straight, Double Action		
	Handle	Length	Width
	B	450mm	5mm



LAPAROSCOPIC INSTRUMENTS, FORCEPS, SPOON

Forceps, Straight, Single Action

		Handle	Length	Width
68-1461	Biopsy Spoon	C	330mm	5mm
68-1462	Large Spoon	C	330mm	10mm





See LAPAROSCOPIC INSTRUMENTS, HANDLE REFERENCE GUIDE on page LAP-8 for photo reference of the handle type.

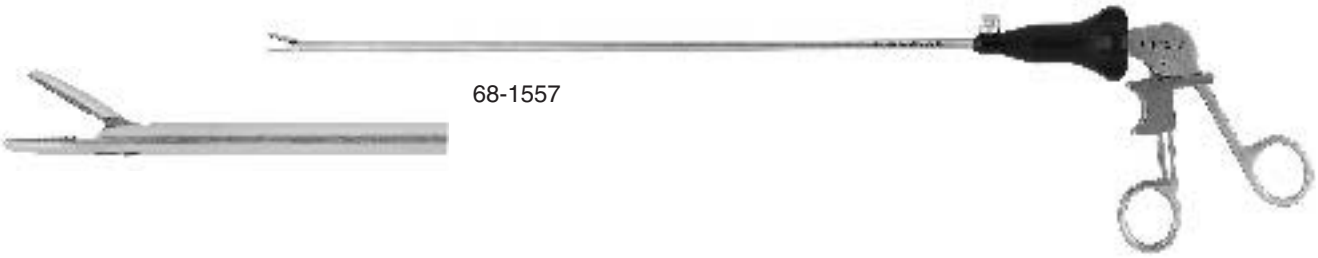
LAPAROSCOPIC INSTRUMENTS, NEEDLE HOLDER



68-1555



68-1556



68-1557



68-1558



68-1563



68-1564



68-1565

	Needleholder, Straight, Single Action	Handle	Length	Width
68-1555	Axial Handles	F	330mm	5mm
68-1556	Axial Handles	F	450mm	5mm
68-1557	DG Handles	D	330mm	5mm
68-1558	DG Handles	D	450mm	5mm
68-1563	Tungsten Carbide Inserts	E	330mm	5mm
68-1564	Left Curved, Tungsten Carbide Inserts	G	330mm	5mm
68-1565	Right Curved, Tungsten Carbide Inserts	G	330mm	5mm

See LAPAROSCOPIC INSTRUMENTS, HANDLE REFERENCE GUIDE on page LAP-8 for photo reference of the handle type.

LAPAROSCOPIC INSTRUMENTS, SCISSORS

	Scissors [METZENBAUM], Double Action	Handle	Length	Width
68-1580	Straight, Serrated	A	330mm	5mm
68-1581	Curved, Serrated	C	330mm	5mm
68-1582	Curved, Medium Blades	A	330mm	5mm



68-1580



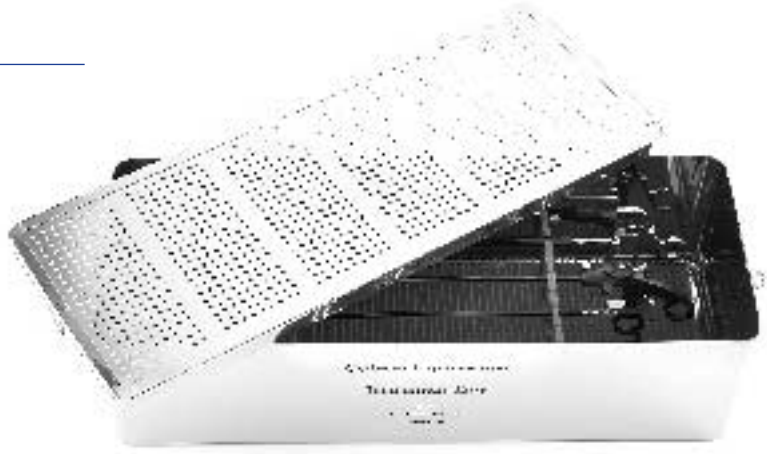
68-1582

68-1583	Scissors [MINI-METZENBAUM], Curved Double Action		
	Handle	Length	Width
	A	330mm	5mm



LAPAROSCOPIC INSTRUMENTS, TRAY

68-1599	Laparoscopic Instrument Tray. Includes Laparoscopic Instrument Rack



LAPAROSCOPIC INSTRUMENTS, ACCESSORIES, MAT

68-1598	Mat, Pin For Laparoscopic Instrument Tray [68-1599]

See LAPAROSCOPIC INSTRUMENTS, HANDLE REFERENCE GUIDE on page LAP-8 for photo reference of the handle type.

LAPAROSCOPIC INSTRUMENTS, HANDLE REFERENCE GUIDE

A Handle, Peek, Rotating, Cleaning Port



B Handle, Peek, Rotating, Ratcheted, Cleaning Port



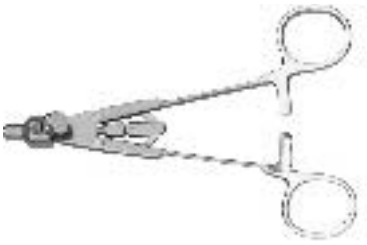
C Handle, Peek, Rotating, Ratcheted, Cleaning Port



D Handle, Stainless Steel, Rotating, Slide Ratchet



E Handle, Stainless Steel, InLine, Ring, Ratchet



F Handle, Stainless Steel, Axial, Ratchet



G Handle, Stainless Steel, 30° Axial, Ratchet



Basic Open Heart Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT
1	**36-5061**	MAYO SCISSOR 6¾″ CURVED
1	**36-5034**	METZENBAUM SCISSOR 9″ CURVED
1	**36-5032**	METZENBAUM SCISSOR 7″ CURVED DELICATE
1	**54-1037**	METZENBAUM SCISSOR 11″ CURVED
6	**30-4035**	COLLER HEMOSTATIC FORCEP, CURVED
2	**30-4565**	PEAN HEMOSTATIC FORCEP, 9″ CURVED
2	**34-4130**	ROCHESTER OCHSNER FORCEPS 8″ STRAIGHT
2	**30-4464**	ADSON HEMOSTATIC FORCEPS 7¼″ CURVED
2	**30-8085**	WILLAUER-ALLIS THORACIC TISSUE FORCEP 10″
2	**30-4081**	MIXTER GALLBLADDER FORCEP 7″ CURVED
1	**19-5582**	GEMINI HEMOSTATIC FORCEP 9″
8	**32-3514**	CODMAN TUBING CLAMP 8″ WITH GUARD
2	**11-5530**	#3 KNIFE HANDLE
1	**11-5531**	#7 KNIFE HANDLE
8	**33-5005**	BACKHAUS TOWEL CLAMP 5½″
2	**33-6031**	SPONGE FORCEPS 9″ CURVED
2	**36-3010**	MICROVASCULAR NEEDLE HOLDER 7″
2		VASCULAR NH 8
2	**36-3011**	MICROVASCULAR NEEDLE HOLDER 9″
2		VASCULAR NH 10″
2	**32-3683**	JULIAN NEEDLE HOLDER 8″ STRAIGHT
2	**32-3684**	JULIAN NEEDLE HOLDER 8″ CURVED
2	**36-2025**	STERNAL NEEDLE HOLDER AND WIRE TWISTER 7″
2	**30-1186**	ADSON TISSUE FORCEP 1X2 TEETH
1	**30-4138**	DRESSING FORCEPS SERRATED 10″
1	**30-4156**	TISSUE FORCEPS 10″ 1X2 TEETH
1	**36-6005**	CUSHING TISSUE FORCEPS 7″ STRAIGHT
2	**70-4026**	YANKAUER SUCTION TUBE 10⅜″
2	**50-1020**	CUSHING VEIN RETRACTOR 9″
1	**504135C**	RICHARDSON-EASTMAN RETRACTORS
1	**50-4308**	DEAVER RETRACTOR 3X12
2	**504222CO**	VOLKMANN RETRACTOR 4 PRONG SHARP
1	**32-3373**	SIDE CUTTING WIRE CUTTERS 9″
2	**67-8001**	RUMEL OBTURATOR 9″
1	**70-8035**	COOLEY GRAFT SUCTION TUBE
1	**70-8038**	COOLEY LEFT VENTRICULAR SUMP SUCTION TUBE
1	**25-1142**	HARKEN AURICLE CLAMP NO.1
1	**25-1140**	HARKEN AURICLE CLAMP NO. 2
1	**25-1144**	HARKEN AURICLE CLAMP NO. 3
1	**25-1146**	HARKEN AURICLE CLAMP NO. 4
1	**25-1100**	SATINSKY VENA CAVA CLAMP 10¾″ 32MM X 9MM
1	**25-1104**	SATINSKY VENA CAVA CLAMP 10¾″ 50MM X 13MM
1	**25-1108**	SATINSKY VENA CAVA CLAMP 6½″ 32MM X 7MM
1	**19-8104**	CRAFOORD COARCTATION CLAMP
1	**37-1010**	DEBAKEY VASCULAR TISSUE FORCEPS 6″
1	**37-1011**	DEBAKEY VASCULAR TISSUE FORCEPS 7¾″
1	**37-1012**	DEBAKEY VASUCULAR TISSUE FORCEPS 9½″
1	**21-3002**	LARGE STERILIZING TRAY
2	**32-3345**	CODMAN INSTRUMENT HOLDER 12″ X 3″

Carotid Endarterectomy Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**21-630**	JOSEPH NASAL SCISSORS STRAIGHT
1	**21-632**	JOSEPH NASAL SCISSORS CURVED
1	**37-4036**	COOLEY CARDIOVASCULAR SCISSORS
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT
1	**36-5061**	MAYO SCISSOR 6¾″ CURVED
1	**36-5032**	METZENBAUM SCISSOR 7″ CURVED DELICATE
1	**54-8002**	POTTS SMITH SCISSOR 45DEG ANGLE
1	**54-8017**	DIETHRICH CORONARY ARTERY SCISSORS 25DEG ANGLE
4	**34-4001**	HALSTED MOSQUITO FORCEP 5″ CURVED
2	**34-4030**	CRILE HEMOSTATIC FORCEP 5½″ STRAIGHT
2	**34-4071**	ROCHESTER-PEAN HEMOSTATIC FORCEP 6¼″ CURVED
1	**30-4494**	DELICATE RIGHT ANGLE CLAMP 7″
1	**11-5530**	#3 KNIFE HANDLE
4	**33-5005**	BACKHAUS TOWEL CLAMP 5½″
2	**33-6030**	SPONGE HOLDING FORCEP 9″ STRAIGHT
2	**36-2016**	MAYO-HEGAR NEEDLE HOLDER 6″
2	**36-3010**	MICROVASCULAR NEEDLE HOLDER 7″
2	**30-1186**	ADSON TISSUE FORCEP 1X2 TEETH
4	**33-7001**	ALLIS TISSUE FORCEPS 6″ 5X6 TEETH

2	**37-1011**	DEBAKEY VASCULAR TISSUE FORCEPS 7¾″
1	**50-1194**	WEITLANER RETRACTOR 5½″ SHARP
1	**70-6560**	ANDREWS-PYNCHON SUCTION TUBE
1	**70-1087**	FRAZIER SUCTION TUBE ANGULAR 7½″ 7FR
1	**70-1088**	FRAZIER SUCTION TUBE ANGULAR 7½″ 9FR
1	**67-8004**	RUMEL OBTURATOR 6″
1	**65-1018**	PENFIELD DISSECTOR SLIGHTLY CURVED LIGHT
1	**63-8011**	LEMMON INTIMA DISSECTORS SLIGHT CURVE
1	**63-8012**	LEMMON INTIMA DISSECTORS MEDIUM CURVE
1	**63-8013**	LEMMON INTIMA DISSECTORS ACUTE CURVE
1	**65-1038**	MILLIGAN DISSECTOR, DOUBLE ENDED
1		MILLS ENDARTERECTOMY SPATULA 6⅞″
1		LONG PLAQUE RETR 7½″
1		MINI PLAQUE RETR 6½″
1	**37-1054**	GLOVER CLASSIC BULLDOG CLAMP 1X2 VASCULAR TEETH
1	**37-1055**	GLOVER CLASSIC BULLDOG CLAMP 1X2 VASCULAR TEETH
1	**37-1056**	GLOVER CLASSIC BULLDOG CLAMP 1X2 VASCULAR TEETH
1	**37-1290**	COOLEY CLASSIC MULTI PURPOSE CLAMP 30DEG
1		JAVID CAROTID ART CLP 6¼″
1		JAVID CAROTID ART CLP 7⅛″
1	**21-3001**	MEDIUM STERILIZING TRAY
1	**32-3346**	CODMAN INSTRUMENT HOLDER 5⅞″ X 3⅛″

CABG (Pump Pan) Set

SUGG	PRODUCT CODE	DESCRIPTION
2	**30-4474**	MOSQUITO HEMOSTATIC FORCEPS 5″ CURVED
6	**32-3512**	TUBING CLAMP FORCEPS WITH GUARD 6″
1	**36-2002**	CRILE-WOOD NEEDLE HOLDER 8″
1	**36-3011**	MICROVASCULAR NEEDLE HOLDER 9″
1	**36-1002**	CASTROVIEJO NEEDLE HOLDER 7″
1	**80-1522**	MALIS SCISSORS, TITANIUM, STRAIGHT, BAYONET
1	**80-1523**	MALIS SCISSORS, TITANIUM, CURVED UP, BAYONET
1	**80-1856**	JONES I.M.A. SCISSORS, BAYONET, REVERSE ANGLE
1	**54-8018**	DIETHRICH CORONARY ARTERY SCISSORS 45DEG ANGLE
2		MICRO FPS 8⅜″ STR
2	**30-8132**	DEBAKEY-DIETHRICH VASCULAR FORCEP 7¾″
1		KRAYENBUEHL DURA HOOK 7¼″ ANG
1	**67-8000**	RUMEL CARDIOVASCULAR TOURNIQUET W/OBTURATOR
1		RUMEL TOURNIQUET 8¼″ CHILD
1	**25-8015**	GARRETT VASCULAR DILATORS
3	**19-8095**	DIETHRICH BULLDO CLAMPS ANGLED ¾″ X 2″
2	**37-1115**	DEBAKEY PERIPHERAL VASCULAR CLAMP S-SHAPED 1X2 TEETH
2	**37-1125**	DEBAKEY PERIPHERAL VASCULAR CLAMP CURVED 1X2 TEETH
1	**21-3001**	MEDIUM STERILIZING TRAY
1	**32-3346**	CODMAN INSTRUMENT HOLDER 5⅞″ X 3⅛″

Major Abdominal Vascular Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**34-4490**	MAYO SCISSORS 6¾″ STRAIGHT, BEVELED BLADES
1	**34-4095**	MAYO SCISSORS 6¾″ CURVED, BEVELED BLADES
1	**36-5016**	METZENBAUM SCISSOR 7″ CURVED
1	**36-5017**	METZENBAUM SCISSOR 9″ CURVED
1	**54-8001**	POTTS SMITH SCISSOR 25DEG ANGLE
1	**54-8002**	POTTS SMITH SCISSOR 45DEG ANGLE
4	**34-4000**	HALSTED MOSQUITO FORCEP 5″ STRAIGHT
4	**34-4001**	HALSTED MOSQUITO FORCEP 5″ CURVED
6	**34-4031**	CRILE HEMOSTATIC FORCEP 5½″ CURVED
4	**34-4091**	ROCHESTER-PEAN HEMOSTATIC FORCEP 8″ CURVED
4	**34-4110**	ROCHESTER-OCHSNER HEMOSTATIC FORCEP STRAIGHT 6¼″
2	**33-7010**	ALLIS TISSUE FORCEP 5X6TEETH 7¼″
2	**30-8085**	WILLAUER-ALLIS THORACIC TISSUE FORCEP 10″
2	**19-8145**	MIXTER THORACIC CLAMP FORCEPS 9″
2	**11-5530**	#3 KNIFE HANDLE
1	**11-5534**	#7 KNIFE HANDLE
1	**11-5535**	#3 LONG KNIFE HANDLE
6	**33-5005**	BACKHAUS TOWEL CLAMP 5½″
2	**33-6030**	SPONGE HOLDING FORCEP 9″ STRAIGHT
2	**36-2016**	MAYO-HEGAR NEEDLE HOLDER 6″

2	**36-3010**	MICROVASCULAR NEEDLE HOLDER 7″
2	**36-2002**	CRILE-WOOD NEEDLE HOLDER 8″
1	**36-2004**	CRILE-WOOD NEEDLE HOLDER 10″
2	**30-4153**	TISSUE FORCEP 1X2 TEETH 6″
2	**30-1186**	ADSON TISSUE FORCEP 1X2 TEETH
1	**30-4221**	RUSSIAN TISSUE FORCEPS 8″
1	**30-4517**	SINGLEY INTESTINAL FORCEP 9″
1	**37-1011**	DEBAKEY VASCULAR TISSUE FORCEPS 7¾″
1	**37-1012**	DEBAKEY VASUCULAR TISSUE FORCEPS 9½″
1	**70-4000**	POOL SUCTION TUBE 23FR
1	**70-4026**	YANKAUER SUCTION TUBE 10⅜″
2	**32-3633**	(CUSHING) VEIN RETRACTOR 11″
1	**50-4303**	DEAVER RETRACTOR 1X12
1	**50-4307**	DEAVER RETRACTOR 2X12
1	**50-4308**	DEAVER RETRACTOR 3X12
2	**50-8072**	MURPHY RETRACTOR FOUR PRONG SHARP
1	**50-4120**	RICHARDSON RETRACTOR ¾″ X 1″
1	**50-4121**	RICHARDSON RETRACTOR 1 X 1¼″
1	**50-4122**	RICHARDSON RETRACTOR 1½″ X 1¾″
1	**70-1089**	FRAZIER SUCTION TUBE ANGULAR 11FR
1	**70-8035**	COOLEY GRAFT SUCTION TUBE
1	**45-8002**	HEPARIN FLUSHING NEEDLE 18GAUGE
1	**25-8015**	GARRETT VASCULAR DILATORS
1	**65-1038**	MILLIGAN DISSECTOR, DOUBLE ENDED
1	**37-1042**	DEBAKEY BULLDOG CLAMP 1¾″ X 4⅛″STRAIGHT
1	**37-1046**	DEBAKEY BULLDOG CLAMP 1¾″ X 4⅛″ CURVED
1	**37-1043**	DEBAKEY BULLDOG CLAMP 2½ X 5″ STRAIGHT
1	**37-1047**	DEBAKEY BULLDOG CLAMP 2½ X 4¾″ CURVED
1	**37-1142**	DEBAKEY AORTIC ANEURYSM CLAMP 12″
1	**37-1182**	DEBAKEY MULTI PURPOSE CLAMP 90DEG 1X2 TEETH
1	**37-1200**	SATINSKY VENA CAVA CLAMP 2¾ X ½″
1	**37-1201**	SATINSKY VENA CAVA CLAMP 2½″ X ⅜″
1	**37-1202**	SATINSKY VENA CAVA CLAMP 2¼″ X ¼″
1	**37-1242**	RENAL ARTERY CLAMP 10⅝″
1	**21-3002**	LARGE STERILIZING TRAY
2	**32-3348**	CODMAN INSTRUMENT HOLDER 9⅞″ X 3⅛″

Minor Peripheral Vascular Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**37-4033**	JAMISON METZENBAUM TENOTOMY SCISSORS 6″
1	**36-5032**	METZENBAUM SCISSOR 7″ CURVED DELICATE
1	**54-8002**	POTTS SMITH SCISSOR 45DEG ANGLE
2	**11-5530**	#3 KNIFE HANDLE
1	**11-5534**	#7 KNIFE HANDLE
2	**36-2016**	MAYO-HEGAR NEEDLE HOLDER 6″
1	**36-3010**	MICROVASCULAR NEEDLE HOLDER 7″
2	**30-1186**	ADSON TISSUE FORCEP 1X2 TEETH
1	**37-1010**	DEBAKEY VASCULAR TISSUE FORCEPS 6″
1	**504135C**	RICHARDSON-EASTMAN RETRACTORS
2	**50-1210**	GELPI RETRACTOR
2	**50-1194**	WEITLANER RETRACTOR 5½″ SHARP
1	**32-3652**	HENLY RETRACTOR
1	**65-6620**	FREER SEPTUM ELEVATOR
1	**70-1088**	FRAZIER SUCTION TUBE ANGULAR 7½″ 9FR
1	**70-1089**	FRAZIER SUCTION TUBE ANGULAR 7½″ 11FR
1	**67-8001**	RUMEL OBTURATOR 9″
1	**45-8002**	HEPARIN FLUSHING NEEDLE, 18 GAUGE
1	**37-4021**	JACOBSON BULLDOG CLAMP CURVED
1	**37-4023**	JACOBSON BULLDOG CLAMP STRAIGHT
1	**37-1070**	DEBAKEY BULLDOG RING HANDLE CLAMP STRAIGHT
1	**37-1071**	DEBAKEY BULLDOG RING HANDLE CLAMP CURVED
1	**37-1072**	DEBAKEY BULLDOG RING HANDLE CLAMP ANGLED 45DEG
1		COOLEY PV CLAMP 6¾″ STR
1		COOLEY PV CLAMP 6½″ ANG
1		COOLEY PV CLAMP 7″ ANG
1		COOLEY PV CLAMP 6⅜″ CVD
1	**37-1110**	DEBAKEY PERIPHERAL VASCULAR CLAMP ANGLED 1X2 TEETH
1	**37-1115**	DEBAKEY PERIPHERAL VASCULAR CLAMP S-SHAPED 1X2 TEETH
1	**37-1125**	DEBAKEY PERIPHERAL VASCULAR CLAMP CURVED 1X2 TEETH
1	**24-3270**	COOLEY SPOON SHAPE CLAMP
1	**30-9007**	CASTANEDA SUTURE TAG FORCEPS NO. 1
1	**30-9008**	CASTANEDA SUTURE TAG FORCEPS NO. 2

CARDIOVASCULAR TRAYS

1	**30-9009**	CASTANEDA SUTURE TAG FORCEPS NO. 3
1	**30-9010**	CASTANEDA SUTURE TAG FORCEPS NO. 4
1	**21-3002**	LARGE STERILIZING TRAY
1	**32-3348**	CODMAN INSTRUMENT HOLDER 9⅞″ X 3⅛″

Pediatric Vascular Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT
1	**32-3577**	SUPER CUT METZENBAUM SCISSOR 5¾″
1	**36-5032**	METZENBAUM SCISSOR 7″ CURVED DELICATE
4	**30-4474**	MOSQUITO HEMOSTATIC FORCEPS 5″ CURVED
2	**30-4467**	CRILE DELICATE HEMOSTATIC FORCEP STRAIGHT 5½″
2	**30-4468**	CRILE DELICATE HEMOSTATIC FORCEP CURVED 5½″
2	**30-4462**	PEAN DELICATE HEMOSTATIC FORCEP, CURVED 5½″
2	**30-4466**	ALLIS DELICATE TISSUE FORCEP 5X6 TEETH 5″
1	**30-4485**	MIXTER DELICATE HEMOSTATIC FORCEPS, RIGHT ANGLE 5¼″
1	**30-4494**	DELICATE RIGHT ANGLE CLAMP 7″
4	**33-5000**	BACKHAUS TOWEL CLAMPS 3½″
2	**11-5530**	#3 KNIFE HANDLE
1	**11-5534**	#7 KNIFE HANDLE
2	**33-6030**	SPONGE HOLDING FORCEP 9″ STRAIGHT
1	**36-2000**	CRILE-WOOD NEEDLE HOLDER 6″
2	**36-3023**	RYDER NEEDLE HOLDER SERRATED 5″
2	**36-3014**	RYDER NEEDLE HOLDER SERRATED 6″
1	**30-4152**	TISSUE FORCEPS 5½″ 1X2 TEETH
2	**6-121**	ADSON TISSUE FORCEP 1X2 TEETH AND CROSS SERRATIONS
1	**37-1010**	DEBAKEY VASCULAR TISSUE FORCEPS 6″
1	**30-8131**	DEBAKEY -DIETRICH VASCULAR FORCEPS
2	**50-4261**	SENN RETRACTOR BLUNT
2	**50-1020**	CUSHING VEIN RETRACTOR 9″
1		DEAVER RETRACTOR 6¾″ X 8MM
1	**50-4120**	RICHARDSON RETRACTOR ¾″ X 1″
1	**32-3602**	GELPI RETRACTOR PEDIATRIC
1	**50-1212**	POPPEN-GELPI LAMINECTOMY RETRACTOR
1		COOLEY CLAMP STR W/STR JAW
1		COOLEY CLAMP ANG W/STR JAW
1		COOLEY CLAMP CVD W/ANG JAW
1		COOLEY CLAMP STR W/CVD JAW
1	**37-1230**	COOLEY ANASTOMOSIS CLAMP 30DEG SIDE ANGLE
1		COOLEY CAROTID CLAMP
1	**32-3613**	STERNOTOMY RETRACTOR NEWBORN
1	**21-3001**	MEDIUM STERILIZING TRAY
1	**32-3348**	CODMAN INSTRUMENT HOLDER 9⅞″ X 3⅛″

PDA (Patent Ductus Arteriosis) Set

SUGG	PRODUCT CODE	DESCRIPTION
2	**6-121**	ADSON TISSUE FORCEP 1X2 TEETH AND CROSS SERRATIONS
2	**30-4152**	TISSUE FORCEPS 5½″ 1X2 TEETH
2		FORCEPS 7 STR .8MM TIP SMOOTH
2	**30-8132**	DEBAKEY-DIETHRICH VASCULAR FORCEP 7¾″
6	**30-4474**	MOSQUITO HEMOSTATIC FORCEPS 5″ CURVED
4	**30-4468**	CRILE DELICATE HEMOSTATIC FORCEP CURVED 5½″
2	**30-4467**	CRILE DELICATE HEMOSTATIC FORCEP STRAIGHT 5½″
2	**30-4462**	PEAN DELICATE HEMOSTATIC FORCEP, CURVED 5½″
2	**30-4466**	ALLIS DELICATE TISSUE FORCEP 5X6 TEETH 5″
2	**30-4490**	KOCHER DELICATE HEMOSTATIC FORCEP 1X2 TEETH STRAIGHT
2	**30-4494**	DELICATE RIGHT ANGLE CLAMP 7″
1		COOLEY NEO CLAMP STR WITH STR JAW
1		COOLEY NEO CLAMP CVD WITH ANG JAW
2	**36-3000**	RYDER NEEDLE HOLDER 5″
2	**36-3012**	RYDER NEEDLE HOLDER 7″
2	**33-6030**	SPONGE HOLDING FORCEP 9″ STRAIGHT
4	**33-5000**	BACKHAUS TOWEL CLAMPS 3½″
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT
1	**32-3577**	SUPER CUT METZENBAUM SCISSOR 5¾″
1	**36-5032**	METZENBAUM SCISSOR 7″ CURVED DELICATE
1	**54-8017**	DIETHRICH CORONARY ARTERY SCISSORS 25DEG ANGLE
2	**11-5530**	#3 KNIFE HANDLE
1	**11-5534**	#7 KNIFE HANDLE
1	**59-1080**	DAVIS BRAIN SPATULA ¼″
1	**59-1082**	DAVIS BRAIN SPATULA ½″
1	**50-5639**	RIBBON RETRACTOR ¾″ X 8″
1	**32-3613**	STERNOTOMY RETRACTOR NEWBORN
2	**50-6536**	ROLLET LACHRYMAL SAC RETRACTOR FOUR PRONG SHARP
2	**50-4261**	SENN RETRACTOR BLUNT
2	**50-1020**	CUSHING VEIN RETRACTOR 9″
1		DEAVER 6¾″ X 8MM

1		DEAVER 6¾″ X 12MM
1	**50-5625**	FINOCHEITTO INFANT RIB RETRACTOR
1	**21-3001**	MEDIUM STERILIZING TRAY
1	**32-3348**	CODMAN INSTRUMENT HOLDER 9⅞″ X 3⅛″

Thoracotomy Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT
1	**36-5061**	MAYO SCISSOR 6¾″ CURVED
1	**36-5016**	METZENBAUM SCISSOR 7″ CURVED
1	**36-5017**	METZENBAUM SCISSOR 9″ CURVED
1	**36-5071**	NELSON SCISSORS 11″ CURVED DELICATE
2	**36-2017**	MAYO-HEGAR NEEDLE HOLDER 7″
1	**32-3683**	JULIAN NEEDLE HOLDER 8″ STRAIGHT
1	**32-3680**	COMAN (COOLEY) NEEDLE HOLDER 8″
2	**36-2025**	STERNAL NEEDLE HOLDER AND WIRE TWISTER 7″
1	**30-4517**	SINGLEY INTESTINAL FORCEP 9″
1		WANGENSTEEN FCPS
1	**70-4026**	YANKAUER SUCTION TUBE 10⅜″
1	**50-8102**	HARRINGTON SPLANCHNIC RETRACTOR 2½″ X 12½″
2	**504222CO**	VOLKMANN RETRACTOR 4 PRONG SHARP
1	**50-4120**	RICHARDSON RETRACTOR ¾″ X 1″
1	**50-4121**	RICHARDSON RETRACTOR 1″ X 1¼″
1	**50-4122**	RICHARDSON RETRACTOR 1½″ X 1¾″
1	**504130C**	RICHARDSON APPENDECTOMY RETRACTOR
1	**50-4113**	KELLY RETRACTOR XTRA LARGE
1	**53-1131**	STILLE-LUER RONGEUR CURVED 8½″
1	**25-480**	SAUERBRUCH RONGEUR 12″
1	**30-1296**	STILLE-LISTON BONE CUTTING FORCEP CURVED
1	**30-1298**	STILLE-HORSLEY BONE CUTTING FORCEPS
1	**50-8024**	FINOCHIETTO RIB RETRACTOR
1	**50-8050**	BAILEY RIB CONTRACTOR
1	**56-8044**	STILLE-GIERTZ RIB SHEARS
1	**56-8043**	BETHUNE RIB SHEAR
1	**52-8000**	DOYEN RIB RASP LEFT
1	**52-8001**	DOYEN RIB RASP RIGHT
1	**65-8005**	ALEXANDER COASTAL PERIOSTEOTOME
1	**50-8096**	DAVIDSON SCAPULAR RETRACTOR
1	**34-4071**	ROCHESTER-PEAN HEMOSTATIC FORCEP 6¼″ CURVED
2	**30-8095**	DUVAL LUNG GRASPING FORCEPS
2	**19-4001**	PENNINGTON TISSUE GRASPING FORCEP
2	**36-6055**	DUVAL LUNG GRASPING FORCEPS 8¼″
2	**30-8082**	THORACIC FORCEPS DELICATELY CURVED 9½″
1		DEBAKEY DISS FCPS 8¾″ C-CURVE
1		DEBAKEY DISS FCPS 8¾″ D-CURVE
2	**30-8065**	MODIFIED COLLIER THORACIC CLAMP
2	**30-8051**	HARRINGTON-MIXTER THORACIC CLAMP FORCEPS
2	**30-8092**	ROCHESTER-CARMALT HEMOSTATIC FORCEP 12¼″
1	**19-8168**	SAROT BRONCHUS CLAMP RIGHT
1	**19-8167**	SAROT BRONCHUS CLAMP LEFT
8	**33-5005**	BACKHAUS TOWEL CLAMP 5½″
1	**21-3002**	LARGE STERILIZING TRAY
1	**32-3345**	CODMAN INSTRUMENT HOLDER 12″ X 3″

GENERAL TRAYS

Cut Down Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**36-5050**	MAYO DISSECTING SCISSORS 5½″
1	**36-5031**	METZENBAUM DISSECTING SCISSORS 5¾″ CURVED
4	**34-4001**	HALSTED MOSQUITO FORCEP 5″ CURVED
2	**34-4031**	CRILE HEMOSTATIC FORCEP 5½″ CURVED
1	**30-4485**	MIXTER DELICATE HEMOSTATIC FORCEPS, RIGHT ANGLE 5¼″
4	**33-5000**	BACKHAUS TOWEL CLAMPS 3½″
1	**36-1015**	HALSEY NEEDLE HOLDER 5″ SERRATED JAW
1	**36-2000**	CRILE-WOOD NEEDLE HOLDER 6″
1	**30-1185**	ADSON DRESSING FORCEP 5″ TIP 1.2MM
1	**30-1186**	ADSON TISSUE FORCEP 1X2 TEETH
2	**50-4260**	SENN RETRACTOR SHARP
1	**50-4265**	ALM RETRACTOR
1	**30-6524**	EYE DRESSING FORCEPS CURVED 4″
1	**30-6532**	IRIS TISSUE FORCEP 1X2 TEETH CURVED
2	**38-6646**	JOSEPH NASAL HOOK DOUBLE PRONG 3/16″
1	**11-5530**	#3 KNIFE HANDLE
1	**21-3000**	SMALL STERILZING CASE
1	**32-3346**	CODMAN INSTRUMENT HOLDER 5⅞″ X 3⅛″

Gallbladder Extras Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**25-4005**	BAKES COMMON DUCT DILATORS
1	**14-26-S**	FERGUSON GALL STONE SCOOP SMALL
1	**14-26-M**	FERGUSON GALL STONE SCOOP MEDIUM
1	**14-26-L**	FERGUSON GALL STONE SCOOP LARGE
1	**14-84**	BLAKE GALL STONE FORCEP STRAIGHT
1	**14-86**	BLAKE GALL STONE FORCEP CURVED
1	**30-4500**	LAHEY GALL DUCT FORCEP LONGITUDINAL SERRATIONS
1	**71-4021**	OCHSNER GALLBLADDER TROCAR 10FR
1	**71-4025**	OCHSNER GALLBLADDER TROCAR 16FR
1	**50-8100**	HARRINGTON SPLANCHNIC RETRACTOR 1½″ X 12½″
1	**50-8102**	HARRINGTON SPLANCHNIC RETRACTOR 2½″ X 12½″
1	**54-8003**	POTTS-SMITH SCISSORS 60DEG
1	**30-4510**	RANDALL KIDNEY STONE FORCEP QUARTER CURVED
1	**30-4511**	RANDALL KIDNEY STONE FORCEP HALF CURVED
1	**30-4512**	RANDALL KIDNEY STONE FORCEP THREE-QUARTER CURVED
1	**30-4513**	RANDALL KIDNEY STONE FORCEP FULL CURVED
1	**21-3002**	LARGE STERILIZING TRAY

Intestinal Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**36-5017**	METZENBAUM SCISSOR 9″ CURVED
6	**34-4001**	HALSTED MOSQUITO FORCEP 5″ CURVED
4	**34-4071**	ROCHESTER-PEAN HEMOSTATIC FORCEP 6¼″ CURVED
2	**36-2004**	CRILE-WOOD NEEDLE HOLDER 10″
2	**30-4222**	RUSSIAN TISSUE FORCEP 10″
4	**19-4056**	ALLEN INTESTINAL ANASTOMOSIS CLAMP
2	**37-4018**	GLASSMAN NON-CRUSHING GASTROINTESTINAL CLAMP 9¼″
2	**37-4017**	GLASSMAN NON-CRUSHING GASTROINTESTINAL CLAMP 9″ ANGLED
2		INTESTINAL CLAMP
1	**21-3002**	LARGE STERILIZING TRAY
1	**32-3347**	CODMAN INSTRUMENT HOLDER 7⅞″ X 3⅛″

Mastectomy Extras

SUGG	PRODUCT CODE	DESCRIPTION
6	**34-4031**	CRILE HEMOSTATIC FORCEP 5½″ CURVED
6	**34-4071**	ROCHESTER-PEAN HEMOSTATIC FORCEP 6¼″ CURVED
12	**33-5005**	BACKHAUS TOWEL CLAMP 5½″
12	**19-4004**	ADAIR BREAST CLAMP
2	**30-4500**	LAHEY GALL DUCT FORCEP LONGITUDINAL SERRATIONS
2	**50-4222CO**	VOLKMANN RETRACTOR 4 PRONG SHARP
2	**50-4246**	ISRAEL RETRACTOR
1	**21-3000**	SMALL STERILZING CASE
1	**32-3347**	CODMAN INSTRUMENT HOLDER 7⅞″ X 3⅛″

Minor Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT
1	**36-5061**	MAYO SCISSOR 6¾″ CURVED
1	**36-5032**	METZENBAUM SCISSOR 7″ CURVED DELICATE
1	**36-5034**	METZENBAUM SCISSOR 9″ CURVED
2	**11-5530**	#3 KNIFE HANDLE
4	**33-5005**	BACKHAUS TOWEL CLAMP 5½″
2	**34-4001**	HALSTED MOSQUITO FORCEP 5″ CURVED

4	**34-4031**	CRILE HEMOSTATIC FORCEP 5½″ CURVED
4	**34-4071**	ROCHESTER-PEAN HEMOSTATIC FORCEP 6¼″ CURVED
2	**34-4110**	ROCHESTER-OCHSNER HEMOSTATIC FORCEP STRAIGHT 6¼″
2	**33-7000**	ALLIS TISSUE FORCEP 4X5 TEETH 6″
2	**33-7020**	BABCOCK TISSUE FORCEP 6¼″
2	**19-5580**	GEMINI HEMOSTATIC FORCEP 7″
2	**33-6030**	SPONGE HOLDING FORCEP 9″ STRAIGHT
2	**36-1015**	HALSEY NEEDLE HOLDER 5″ SERRATED JAW
2	**36-2000**	CRILE-WOOD NEEDLE HOLDER 6″
2	**36-2001**	CRILE-WOOD NEEDLE HOLDER 7″
2	**30-4153**	TISSUE FORCEP 1X2 TEETH 6″
2	**30-1186**	ADSON TISSUE FORCEP 1X2 TEETH
1	**37-1010**	DEBAKEY VASCULAR TISSUE FORCEPS 6″
2	**50-4260**	SENN RETRACTOR SHARP
1	**50-4071**	US ARMY RETRACTORS
2	**50-1020**	CUSHING VEIN RETRACTOR 9″
2	**50-4222CO**	VOLKMANN RETRACTOR 4 PRONG SHARP
1	**50-4120**	RICHARDSON RETRACTOR ¾″ X 1″
1	**50-4121**	RICHARDSON RETRACTOR 1″ X 1¼″
1	**50-4122**	RICHARDSON RETRACTOR 1½″ X 1¾″
1	**50-1195**	WEITLANER RETRACTOR BLUNT 5½″
1	**50-1197**	WEITLANER RETRACTOR BLUNT 6½″
1	**21-3002**	LARGE STERILIZING TRAY
1	**32-3347**	CODMAN INSTRUMENT HOLDER 7⅞″ X 3⅛″

Major Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT
1	**36-5061**	MAYO SCISSOR 6¾″ CURVED
1	**36-5032**	METZENBAUM SCISSOR 7″ CURVED DELICATE
1	**36-5034**	METZENBAUM SCISSOR 9″ CURVED
2	**34-4001**	HALSTED MOSQUITO FORCEP 5″ CURVED
6	**34-4031**	CRILE HEMOSTATIC FORCEP 5½″ CURVED
4	**34-4071**	ROCHESTER-PEAN HEMOSTATIC FORCEP 6¼″ CURVED
2	**34-4091**	ROCHESTER-PEAN HEMOSTATIC FORCEP 8″ CURVED
2	**34-4110**	ROCHESTER-OCHSNER HEMOSTATIC FORCEP STRAIGHT 6¼″
4	**33-7000**	ALLIS TISSUE FORCEP 4X5 TEETH 6″
2	**33-7020**	BABCOCK TISSUE FORCEP 6¼″
2	**30-4500**	LAHEY GALL DUCT FORCEP LONGITUDINAL SERRATIONS
2	**19-8145**	MIXTER THORACIC CLAMP FORCEPS 9″
2	**30-4291**	SCHNIDT HEMOSTATIC FORCEP SLIGHTLY CURVED
2	**11-5530**	#3 KNIFE HANDLE
1	**11-5534**	#7 KNIFE HANDLE
1	**11-5535**	#3 LONG KNIFE HANDLE
2	**33-5005**	BACKHAUS TOWEL CLAMP 5½″
2	**33-6030**	SPONGE HOLDING FORCEP 9″ STRAIGHT
2	**36-2016**	MAYO-HEGAR NEEDLE HOLDER 6″
2	**36-2017**	MAYO-HEGAR NEEDLE HOLDER 7″
2	**36-2018**	MAYO-HEGAR NEEDLE HOLDER 8″
1	**36-3021**	SAROT NEEDLE HOLDER 10″
2	**30-4153**	TISSUE FORCEP 1X2 TEETH 6″
1	**30-4138**	DRESSING FORCEPS SERRATED 10″
2	**30-1186**	ADSON TISSUE FORCEP 1X2 TEETH
1	**30-1132**	FERRIS SMITH TISSUE FORCEP 2X3 TEETH 6¾″
1	**37-1011**	DEBAKEY VASCULAR TISSUE FORCEPS 7¾″
1	**37-1012**	DEBAKEY VASUCULAR TISSUE FORCEPS 9½″
1	**70-4001**	POOL SUCTION TUBE 30FR
1	**70-4026**	YANKAUER SUCTION TUBE 10⅜″
2	**50-1020**	CUSHING VEIN RETRACTOR 9″
1	**50-4303**	DEAVER RETRACTOR 1″ X 12″
1	**50-4306**	DEAVER RETRACTOR 1½″ X 12″
1	**50-4121**	RICHARDSON RETRACTOR 1″ X 1¼″
1	**50-4122**	RICHARDSON RETRACTOR 1½″ X 1¾″
1	**50-4111**	KELLY RETRACTOR 2″ X 2½″
1	**50-4112**	KELLY RETRACTOR 2½″ X 3″
1	**50-4214**	RIBBON RETRACTOR 2″ X 13″
1	**21-3002**	LARGE STERILIZING TRAY
2	**32-3348**	CODMAN INSTRUMENT HOLDER 9⅞″ X 3⅛″

Open Bariatric Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**32-3592**	(MAYO) BARIATRIC SCISSORS 14″ STRAIGHT
1	**32-3593**	(MAYO) BARIATRIC SCISSORS 14″ CURVED
1	**32-3595**	(METZENBAUM) BARIATRIC SCISSORS 13⅞″ CURVED
1	**32-3596**	CODMAN SUPER CUT BARIATRIC SCISSOR 13⅞″ CURVED
1	**32-3685**	(CRILE-WOOD) NEEDLE HOLDER 14″
1	**32-3686**	(MAYO-HEGAR) NEEDLE HOLDER 14″

1	**32-3541**	BARIATRIC THUMB FORCEPS 14″
1	**32-3542**	BARIATRIC TISSUE FORCEPS 14″ 1X2 TEETH
1	**32-3543**	(RUSSIAN) TISSUE FORCEP 14″
1		SINGLEY TISSUE FCPS 14
1	**32-3550**	(DEBAKEY) THORACIC TISSUE FORCEP 14″
2	**32-3545**	(BABCOCK) BARIATRIC TISSUE FORCEP 14″
2	**32-3546**	(GEMINI) BARIATRIC TISSUE FORCEP 14″
4	**32-3547**	(ALLIS-WILLAUER) FORCEP 14″
2	**32-3549**	(DEBAKEY-COLLIER) BARIATRIC TISSUE FORCEP 14″
2	**32-3552**	(HARRINGTON) BARIATRIC FORCEP 14″
2	**32-3554**	(ROCHESTER-PEAN) HEMOSTATIC FORCEP 14″
2	**32-3540**	CODMAN SPONGE FORCEP 14″
2	**32-3634**	(CUSHING) RETRACTOR 14″
1	**50-4304**	DEAVER RETRACTOR 1″ X 13″
1		DEAVER RETRACTOR 1″ X 14″
1	**32-3361**	CODMAN BARIATRIC SUCTION TUBE 15″
1	**32-3362**	(YANKAUER) SUCTION TUBE 12¾″
1	**21-3002**	LARGE STERILIZING TRAY
1	**32-3347**	CODMAN INSTRUMENT HOLDER 7⅞″ X 3⅛″

Pediatric Laparotomy Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**36-5016**	METZENBAUM SCISSOR 7″ CURVED
1	**36-5032**	METZENBAUM SCISSOR 7″ CURVED DELICATE
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT
1	**36-5061**	MAYO SCISSOR 6¾″ CURVED
2	**11-5530**	#3 KNIFE HANDLE
4	**30-4473**	MOSQUITO HEMOSTATIC FORCEPS 5″ STRAIGHT
4	**30-4474**	MOSQUITO HEMOSTATIC FORCEPS 5″ CURVED
4	**30-4467**	CRILE DELICATE HEMOSTATIC FORCEP STRAIGHT 5½″
4	**30-4462**	PEAN DELICATE HEMOSTATIC FORCEP, CURVED 5½″
2	**30-4066**	ROCHESTER-OCHSNER HEMOSTATIC FORCEPS 1X2 TEETH 9″
2	**30-4466**	ALLIS DELICATE TISSUE FORCEP 5X6 TEETH 5″
2	**30-4465**	BABCOCK TISSUE FORCEPS 5¾″ DELICATE
2	**33-7000**	ALLIS TISSUE FORCEP 4X5 TEETH 6″
2	**16-102**	BABY ALLEN CLAMP
2	**30-4485**	MIXTER DELICATE HEMOSTATIC FORCEPS, RIGHT ANGLE 5¼″
2	**30-4494**	DELICATE RIGHT ANGLE CLAMP 7″
4	**33-5000**	BACKHAUS TOWEL CLAMPS 3½″
2	**32-6010**	SPONGE HOLDING FORCEP 7″
2	**36-1015**	HALSEY NEEDLE HOLDER 5″ SERRATED JAW
2	**36-2000**	CRILE-WOOD NEEDLE HOLDER 6″
2	**36-3010**	MICROVASCULAR NEEDLE HOLDER 7″
1	**30-1185**	ADSON DRESSING FORCEP 5″ TIP 1.2MM
1	**30-1186**	ADSON TISSUE FORCEP 1X2 TEETH
1	**30-1170**	SEMKEN TISSUE FORCEPS 1X2 TEETH 5″
1	**30-4135**	DRESSING FORCEP SERRATED 6″
1	**30-4153**	TISSUE FORCEP 1X2 TEETH 6″
1	**37-1010**	DEBAKEY VASCULAR TISSUE FORCEP 6″
1	**61-5505**	BENSON PYLORUS SPREADER
1	**50-4071**	US ARMY RETRACTORS
2	**50-1020**	CUSHING VEIN RETRACTOR 9″
1	**50-5629**	DEAVER RETRACTOR 8″ LENGTH
1	**50-4120**	RICHARDSON RETRACTOR ¾″ X 1″
1	**50-5647**	WEITLANER RETRACTOR BLUNT
1	**50-5651**	BALFOUR ABDOMINAL RETRACTOR MINIATURE MODEL
2	**18-110**	DESMARRES RETRACTOR SIZE 1 11MM
2	**18-116**	DESMARRES RETRACTOR SIZE 4 17MM
1	**21-3002**	LARGE STERILIZING TRAY
1	**32-3348**	CODMAN INSTRUMENT HOLDER 9⅞″ X 3⅛″

Rectal Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT
1	**36-5061**	MAYO SCISSOR 6¾″ CURVED
1	**36-5016**	METZENBAUM SCISSOR 7″ CURVED
4	**30-4095**	PRATT T-SHAPED TISSUE GRASPING FORCEPS
2	**19-4000**	PENNINGTON TISSUE GRASPING FORCEP 6″
2	**34-4000**	HALSTED MOSQUITO FORCEP 5″ STRAIGHT
2	**34-4021**	KELLY HEMOSTATIC FORCEP CURVED
1	**11-5530**	#3 KNIFE HANDLE
4	**33-5005**	BACKHAUS TOWEL CLAMP 5½″
2	**33-6030**	SPONGE HOLDING FORCEP 9″ STRAIGHT
1	**36-2016**	MAYO-HEGAR NEEDLE HOLDER 6″
1	**36-2017**	MAYO-HEGAR NEEDLE HOLDER 7″
1	**30-4137**	DRESSING FORCEP 8″
1	**30-4155**	TISSUE FORCEP 8″
2	**33-7001**	ALLIS TISSUE FORCEPS 6″ 5X6 TEETH

1	**49-4035**	PROBE WITH EYE 8″
1	**50-5668**	HILL-FERGUSON RECTAL RETRACTOR 7/8″ X 2 7/16″
1	**50-5669**	HILL-FERGUSON RECTAL RETRACTOR 1 3/16″ X 2 7/8″
1	**50-5671**	SAWYER RECTAL RETRACTOR
1	**79-5550**	PRATT RECTAL SPECULUM
1	**79-5546**	SIMS RECTAL SPECULUM
1	**19-5515**	BUIE PILE CLAMP
1	**28-130**	STEWART CRYPT HOOK LONG STYLE
1	**28-108**	PRATT RECTAL PROBE
1	**21-3002**	LARGE STERILIZING TRAY
1	**32-3346**	CODMAN INSTRUMENT HOLDER 5 7/8″ X 3 1/8″

Thyroidectomy

SUGG	PRODUCT CODE	DESCRIPTION
1	**36-5051**	MAYO SCISSOR 6 3/4″ STRAIGHT
1	**36-5061**	MAYO SCISSOR 6 3/4″ CURVED
1	**36-5016**	METZENBAUM SCISSOR 7″ CURVED
4	**30-4468**	CRILE DELICATE HEMOSTATIC FORCEP CURVED 5 1/2″
4	**30-4462**	PEAN DELICATE HEMOSTATIC FORCEP, CURVED 5 1/2″
4	**34-4001**	HALSTED MOSQUITO FORCEP 5″ CURVED
4	**32-4100**	KOCHER HEMOSTATIC FORCEP 1X2 TEETH STRAIGHT
4	**33-7001**	ALLIS TISSUE FORCEPS 6″ 5X6 TEETH
2	**30-4494**	DELICATE RIGHT ANGLE CLAMP 7″
4	**30-4088**	LAHEY THYROID TENACULUM FORCEPS
4	**33-5000**	BACKHAUS TOWEL CLAMPS 3 1/2″
2	**11-5530**	#3 KNIFE HANDLE
2	**33-6030**	SPONGE HOLDING FORCEP 9″ STRAIGHT
2	**36-2000**	CRILE-WOOD NEEDLE HOLDER 6″
2	**36-2016**	MAYO-HEGAR NEEDLE HOLDER 6″
1	**30-4135**	DRESSING FORCEP SERRATED 6″
1	**30-4153**	TISSUE FORCEP 1X2 TEETH 6″
2	**30-1186**	ADSON TISSUE FORCEP 1X2 TEETH
1	**37-1010**	DEBAKEY VASCULAR TISSUE FORCEPS 6″
2	**50-4297**	GREENE THYROID RETRACTOR
2	**50-4040C**	LAHEY THYROID RETRACTOR
1	**50-1197**	WEITLANER RETRACTOR BLUNT 6 1/2″
1	**50-1165**	BECKMAN THYROID RETRACTOR
1	**21-3001**	MEDIUM STERILIZING TRAY
1	**32-3348**	CODMAN INSTRUMENT HOLDER 9 7/8″ X 3 1/8″

Xlong Instrument Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**32-3596**	CODMAN SUPER CUT BARIATRIC SCISSOR 13 7/8″ CURVED
1	**32-3686**	(MAYO-HEGAR) NEEDLE HOLDER 14″

1	**32-3541**	BARIATRIC THUMB FORCEPS 14″
1	**32-3542**	BARIATRIC TISSUE FORCEPS 14″ 1X2 TEETH
1	**32-3543**	(RUSSIAN) TISSUE FORCEP 14″
1	**32-3550**	(DEBAKEY) THORACIC TISSUE FORCEP 14″
2	**32-3546**	(GEMINI) BARIATRIC TISSUE FORCEP 14″
2	**32-3547**	(ALLIS-WILLAUER) FORCEP 14″
2	**32-3549**	(DEBAKEY-COLLIER) BARIATRIC TISSUE FORCEP 14″
1	**21-3001**	MEDIUM STERILIZING TRAY

Cicumcision (ADULT) Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**54-4029**	OPERATING SCISSOR 5½″
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT
1	**36-5016**	METZENBAUM SCISSOR 7″ CURVED
1	**11-5530**	#3 KNIFE HANDLE
2	**34-4000**	HALSTED MOSQUITO FORCEP 5″ STRAIGHT
2	**34-4001**	HALSTED MOSQUITO FORCEP 5″ CURVED
2	**33-7000**	ALLIS TISSUE FORCEP 4X5 TEETH 6″
2	**33-6030**	SPONGE HOLDING FORCEP 9″ STRAIGHT
1	**36-1015**	HALSEY NEEDLE HOLDER 5″ SERRATED JAW
1	**36-2000**	CRILE-WOOD NEEDLE HOLDER 6″
1	**30-4135**	DRESSING FORCEP SERRATED 6″
1	**30-4153**	TISSUE FORCEP 1X2 TEETH 6″
1	**30-1185**	ADSON DRESSING FORCEP 5″ TIP 1.2MM
1	**30-1186**	ADSON TISSUE FORCEP 1X2 TEETH
1	**49-4032**	PROBE WITH EYE 5½″
1	**21-3000**	SMALL STERILZING CASE

Espispadias Repair Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT
1	**36-5016**	METZENBAUM SCISSOR 7″ CURVED
1	**36-5005**	STRABISMUS SCISSOR STRAIGHT
1	**36-5006**	STRABISMUS SCISSOR CURVED
2	**11-5530**	#3 KNIFE HANDLE
4	**34-4000**	HALSTED MOSQUITO FORCEP 5″ STRAIGHT
6	**34-4001**	HALSTED MOSQUITO FORCEP 5″ CURVED
2	**32-4100**	KOCHER HEMOSTATIC FORCEP 1X2 TEETH STRAIGHT
2	**33-7000**	ALLIS TISSUE FORCEP 4X5 TEETH 6″
4	**33-5000**	BACKHAUS TOWEL CLAMPS 3½″
2	**33-6030**	SPONGE HOLDING FORCEP 9″ STRAIGHT
2	**36-1015**	HALSEY NEEDLE HOLDER 5″ SERRATED JAW
1	**36-2000**	CRILE-WOOD NEEDLE HOLDER 6″
2	**30-1185**	ADSON DRESSING FORCEP 5″ TIP 1.2MM
2	**30-1186**	ADSON TISSUE FORCEP 1X2 TEETH
2	**50-4260**	SENN RETRACTOR SHARP
2	**50-1020**	CUSHING VEIN RETRACTOR 9″
1	**70-1089**	FRAZIER SUCTION TUBE ANGULAR 11FR
1	**21-3000**	SMALL STERILZING CASE
1	**32-3346**	CODMAN INSTRUMENT HOLDER 5⅞″ X 3⅛″

Kidney Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**54-8036**	DEBAKEY VASULAR SCISSOR 45DEG ANGLE
1	**30-4510**	RANDALL KIDNEY STONE FORCEP QUARTER CURVED
1	**30-4511**	RANDALL KIDNEY STONE FORCEP HALF CURVED
1	**30-4512**	RANDALL KIDNEY STONE FORCEP THREE-QUARTER CURVED
1	**30-4513**	RANDALL KIDNEY STONE FORCEP FULL CURVED
2	**29-302**	STILLE VESSEL CLAMP 9″
2	**19-4018**	MAYO (GUYON) KIDNEY CLAMP
2	**29-280**	WERTHEIM PEDICLE CLAMP 9¾″
1	**21-3002**	LARGE STERILIZING TRAY

Perineal Prostatectomy Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**11-5530**	#3 KNIFE HANDLE
1	**36-5071**	NELSON SCISSORS 11″ CURVED DELICATE
2	**30-4700**	BRIDGE INTESTINAL FORCEP, CURVED
2	**30-4291**	SCHNIDT HEMOSTATIC FORCEP SLIGHTLY CURVED
2	**33-7000**	ALLIS TISSUE FORCEP 4X5 TEETH 6″
2	**30-8085**	WILLAUER-ALLIS THORACIC TISSUE FORCEP 10″
2	**19-5583**	GEMINI HEMOSTATIC FORCEP 11″
1	**36-2018**	MAYO-HEGAR NEEDLE HOLDER 8″
1	**37-1012**	DEBAKEY VASUCULAR TISSUE FORCEPS 9½″
1	**30-4155**	TISSUE FORCEP 8″
1	**30-4137**	DRESSING FORCEP 8″
1	**30-8112**	MAYO-RUSSIAN TISSUE FORCEPS
1	**11-219**	PEDIATRIC DEAVER ¾″ X 7″

1	**50-4303**	DEAVER RETRACTOR 1X12
1		YOUNG PROSTATIC RETR
2	**50-5541**	JACKSON VAGINAL RETRACTOR 1½″ X 3½″
2	**50-5570**	HEANEY-SIMON HYSTERECTOMY RETRACTOR
1	**21-3001**	MEDIUM STERILIZING TRAY
1	**32-3346**	CODMAN INSTRUMENT HOLDER 5⅞″ X 3⅛″

Urology Extras Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**36-5052**	MAYO DISSECTING SCISSOR 9″ STRAIGHT
1	**36-5062**	MAYO DISSECTING SCISSOR 9″ CURVED
1	**36-5017**	METZENBAUM SCISSOR 9″ CURVED
1	**11-5535**	#3 LONG KNIFE HANDLE
2	**36-2019**	MAYO-HEGAR NEEDLE HOLDER 10″
1	**30-4138**	DRESSING FORCEPS SERRATED 10″
4	**34-4041**	CRILE HEMOSTATIC FORCEP 6¼″ CURVED
4	**33-7010**	ALLIS TISSUE FORCEP 5X6 TEETH 7¼″
4	**34-4091**	ROCHESTER-PEAN HEMOSTATIC FORCEP 8″ CURVED
2	**34-4130**	ROCHESTER OCHSNER FORCEPS 8″ STRAIGHT
2	**19-4056**	ALLEN INTESTINAL ANASTOMOSIS CLAMP
2	**30-4305**	DOYEN INTESTINAL FORCEP STRAIGHT
2	**19-8145**	MIXTER THORACIC CLAMP FORCEPS 9″
2	**19-4018**	MAYO (GUYON) KIDNEY CLAMP
1	**21-3001**	MEDIUM STERILIZING TRAY
1	**32-3347**	CODMAN INSTRUMENT HOLDER 7⅞″ X 3⅛″

Vasectomy Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**36-5015**	METZENBAUM DISSECTING SCISSORS 5¾″ CURVED
1	**11-5530**	#3 KNIFE HANDLE
2	**34-4001**	HALSTED MOSQUITO FORCEP 5″ CURVED
1	**34-4030**	CRILE HEMOSTATIC FORCEP 5½″ STRAIGHT
1	**34-4031**	CRILE HEMOSTATIC FORCEP 5½″ CURVED
2	**33-7000**	ALLIS TISSUE FORCEP 4X5 TEETH 6″
4	**33-5000**	BACKHAUS TOWEL CLAMPS 3½″
1	**30-4214**	ADSON DRESSING FORCEP DELICATE
1	**30-4218**	ADSON TISSUE FORCEP DELICATE 1X2 TEETH
1	**Oct-72**	GROOVED DIRECTOR 5½″
2	**38-6642**	JOSEPH NASAL HOOK SINGLE PRONG
1	**21-3002**	LARGE STERILIZING TRAY

NEURO TRAYS

Burr Hole Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**75-1004**	GIGLI TWISTED WIRE SAW 20″
1	**11-1015**	GIGLI SAW HANDLES LOOP
1	**14-1020**	BAILEY GIGLI SAW GUIDES
1	**70-1089**	FRAZIER SUCTION TUBE ANGULAR 11FR
1	**26-1041**	HUDSON BRACE
1	**15-1005**	HUDSON BURR 3/8″
1	**15-1006**	HUDSON BURR 9/16″
1	**15-1007**	HUDSON BURR 5/8″
1	**15-1008**	HUDSON BURR 7/8″
1	**80-1002**	HUDSON CEREBELLAR EXTENSION
1	**26-1004**	MCKENZIE PERFORATOR DRILL
1	**14-1000**	ADSON DRILL GUIDE AND DURA PROTECTOR
1	**21-3000**	SMALL STERILZING CASE

Cervical Laminectomy Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**54-4013**	LISTER BANDAGE SCISSOR 7¼″
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT
1	**36-5061**	MAYO SCISSOR 6¾″ CURVED
1	**54-5571**	DELICATE LAHEY SCISSORS CURVED 5¾’
1	**36-5032**	METZENBAUM SCISSOR 7″ CURVED DELICATE
6	**33-5005**	BACKHAUS TOWEL CLAMP 5½″
2	**11-5530**	#3 KNIFE HANDLE
2	**33-6030**	SPONGE HOLDING FORCEP 9″ STRAIGHT
4	**32-6010**	SPONGE HOLDING FORCEP 7″
2	**34-4031**	CRILE HEMOSTATIC FORCEP 5½″ CURVED
2	**34-4071**	ROCHESTER-PEAN HEMOSTATIC FORCEP 6¼″ CURVED
2	**33-7000**	ALLIS TISSUE FORCEP 4X5 TEETH 6″
2	**34-4110**	ROCHESTER-OCHSNER HEMOSTATIC FORCEP STRAIGHT 6¼″
2	**30-4291**	SCHNIDT HEMOSTATIC FORCEP SLIGHTLY CURVED
1	**30-4492**	GEMINI HEMOSTATIC FORCEP DELICATE 80DEG ANGLE
2	**36-3002**	RYDER NEEDLE HOLDER TIP SIZE 1.5MM 7″
2	**36-2000**	CRILE-WOOD NEEDLE HOLDER 6″
2	**36-1015**	HALSEY NEEDLE HOLDER 5″ SERRATED JAW
1	**30-1150**	CUSHING DRESSING FORCEP TIP WIDTH 1.5MM 7″
1	**30-1140**	CUSHING TISSUE FORCEP TIP WIDTH 1.5MM 7″
1	**30-1156**	CUSHING DRESSING FORCEP BAYONET 7¾″
1	**30-1147**	CUSHING TISSUE FORCEP 1X2 TEETH 7¾″
1	**30-1186**	ADSON TISSUE FORCEP 1X2 TEETH
1	**53-1512**	CERVICAL KERRISON RONGEUR 2MM 40DEG UP 7″
1	**53-1515**	CERVICAL KERRISON RONGEUR 3MM 40DEG UP 7″
1	**53-1521**	CERVICAL KERRISON RONGEUR 5MM 40DEG UP 7″
1	**53-1230**	CUSHING IVD RONGEUR 7″ STRAIGHT
1	**53-1232**	CUSHING IVD RONGEUR 7″ CURVED UP
1	**53-1233**	CUSHING IVD RONGEUR 7″ CURVED DOWN
1	**80-1654**	WILLIAMS DISCECTOMY FORCEPS
1	**53-1255**	PEAPOD IVD RONGEUR CURVED
1	**30-1228**	LIGAMENTA FLAVA FORCEPS CURVED ON SIDE
1	**38-1080**	DANDY NERVE HOOK STRAIGHT BLUNT
1	**65-1015**	PENFIELD DISSECTOR BROAD CURVED
1	**65-1016**	PENFIELD DISSECTOR SLIGHTLY CURVED
1	**65-1017**	PENFIELD DISSECTOR FULL CURVED AND WAX PACKER
1	**65-1018**	PENFIELD DISSECTOR SLIGHTLY CURVED LIGHT
1	**65-6620**	FREER SEPTUM ELEVATOR
1	**23-1041**	SPINAL FUSION CURETTE 8″ 000
1	**23-1042**	SPINAL FUSION CURETTE 8″ 00
1	**23-1043**	SPINAL FUSION CURETTE 8″ 0
1	**23-1044**	SPINAL FUSION CURETTE 8″ 1
1	**53-1127**	CODMAN LEKSELL LAMINECTOMY RONGEUR REGULAR CURVE NARROW JAW
1	**70-1088**	FRAZIER SUCTION TUBE ANGULAR 7½″ 9FR
1	**18-660**	STEEL RULER 6″
2	**50-4260**	SENN RETRACTOR SHARP
1	**50-4071**	US ARMY RETRACTORS
2	**50-1196**	WEITLANER RETRACTOR SHARP 6½″
2	**50-1181**	ADSON CEREBELLAR RETRACTOR 4X4 SHARP PRONGS ANGULAR SHAFT
1	**61-2516**	INGE LAMINA SPREADERS
1	**50-1050**	CODMAN BLADE RETRACTOR 18MM
1	**50-1052**	CODMAN BLADE RETRACTOR 20MM
1	**50-1053**	CODMAN BLADE RETRACTOR 23MM
1	**50-1390**	CODMAN CERVICAL RETRACTOR SET

1	**21-3002**	LARGE STERILIZING TRAY
1	**32-3347**	CODMAN INSTRUMENT HOLDER 7⅞″ X 3⅛″

Craniotomy Set

SUGG	PRODUCT CODE	DESCRIPTION
2	**11-5530**	#3 KNIFE HANDLE
1	**11-5534**	#7 KNIFE HANDLE
4	**33-5005**	BACKHAUS TOWEL CLAMP 5½″
4	**33-5000**	BACKHAUS TOWEL CLAMPS 3½″
4	**34-4001**	HALSTED MOSQUITO FORCEP 5″ CURVED
2	**34-4031**	CRILE HEMOSTATIC FORCEP 5½″ CURVED
2	**33-7000**	ALLIS TISSUE FORCEP 4X5 TEETH 6″
2	**34-4110**	ROCHESTER-OCHSNER HEMOSTATIC FORCEP STRAIGHT 6¼″
16	**32-4160**	DANDY SCALP HEMOSTATIC FORCEP CURVED ON ONE SIDE SERR
2	**36-2016**	MAYO-HEGAR NEEDLE HOLDER 6″
2	**36-3012**	RYDER NEEDLE HOLDER 7″
1	**36-5033**	METZENBAUM DISSECTING SCISSOR 7″ CURVED BLUNT/BLUNT
1	**32-3594**	(METZENBAUM) SCISSOR 12¼″
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT
1	**36-5061**	MAYO SCISSOR 6¾″ CURVED
1	**54-1055**	FRAZIER DURAL SCISSORS
1	**54-4013**	LISTER BANDAGE SCISSOR 7¼″
1	**36-5080**	WIRE SUTURE SCISSORS 4¾″
2	**70-1088**	FRAZIER SUCTION TUBE ANGULAR 7½″ 9FR
2	**70-1089**	FRAZIER SUCTION TUBE ANGULAR 11FR
1	**59-1000**	WOODSON ELEVATOR AND SPATULA
1	**65-1015**	PENFIELD DISSECTOR BROAD CURVED
1	**65-1016**	PENFIELD DISSECTOR SLIGHTLY CURVED
1	**65-1017**	PENFIELD DISSECTOR FULL CURVED AND WAX PACKER
1	**65-1018**	PENFIELD DISSECTOR SLIGHTLY CURVED LIGHT
1	**65-1019**	PENFIELD DISSECTOR SLIGHTLY CURVED DOUBLE ENDED
1	**38-1080**	DANDY NERVE HOOK STRAIGHT BLUNT
1	**65-6620**	FREER SEPTUM ELEVATOR
1	**65-1100**	FRAZIER DURAL SEPARATOR
1	**38-1028**	CUSHING DURAL HOOK SHARP
1	**65-1075**	CUSHING PERIOSTEAL ELEVATOR ROUNDED EDGE
1	**30-1186**	ADSON TISSUE FORCEP 1X2 TEETH
1	**30-4153**	TISSUE FORCEP 1X2 TEETH 6″
1	**30-1214**	GERALD DRESSING FORCEP
1	**30-1210**	GERALD TISSUE FORCEPS 1X2 TEETH
1	**30-1150**	CUSHING DRESSING FORCEP TIP WIDTH 1.5MM 7″
1	**30-1140**	CUSHING TISSUE FORCEP TIP WIDTH 1.5MM 7″
1	**30-1147**	CUSHING TISSUE FORCEP 1X2 TEETH 7¾″
1	**30-1000**	ADSON HYPOPHYSEAL FORCEPS BAYONET
1	**59-1080**	DAVIS BRAIN SPATULA ¼″
1	**59-1081**	DAVIS BRAIN SPATULA ⅜″
1	**59-1082**	DAVIS BRAIN SPATULA ½″
1	**59-1084**	DAVIS BRAIN SPATULA ¾″
1	**59-1087**	DAVIS BRAIN SPATULA 1½″
1	**23-1043**	SPINAL FUSION CURETTE 8″ NO. 0
1	**23-1044**	SPINAL FUSION CURETTE 8″ NO. 1
1	**23-1045**	SPINAL FUSION CURETTE 8″ NO. 2
1	**50-1020**	CUSHING VEIN RETRACTOR 9″
1	**53-1095**	ZAUFAL-JANSEN RONGEUR DOUBLE ACTION CURVED
1	**53-1125**	CODMAN LEKSELL LAMINECTOMY RONGEUR REGULAR CURVE
1	**80-1340**	HARDY SELLA PUNCH 40DEG UP 2MM BITE
1	**53-1402**	CODMAN LUMBAR KERRISON RONGEUR 3MM 40DEG UP 7″
2	**33-6030**	SPONGE HOLDING FORCEP 9″ STRAIGHT
1	**18-660**	STEEL RULER 6″
1	**50-1226**	JANSEN SCALP RETRACTOR
1	**50-1220**	CONTOUR SCALP RETRACTOR
1	**65-1115**	LANGENBECK PERIOSTEAL ELEVATOR NARROW
1	**65-1116**	LANGENBECK PERIOSTEAL ELEVATOR WIDE
1	**21-3002**	LARGE STERILIZING TRAY
1	**32-3347**	CODMAN INSTRUMENT HOLDER 7⅞″ X 3⅛″

NEURO TRAYS

Lumbar Laminectomy Set

SUGG	PRODUCT CODE	DESCRIPTION
2	**11-5530**	#3 KNIFE HANDLE
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT
1	**36-5061**	MAYO SCISSOR 6¾″ CURVED
1	**54-4013**	LISTER BANDAGE SCISSOR 7¼″
1	**32-3577**	SUPER CUT METZENBAUM SCISSOR 5¾″
1	**36-5032**	METZENBAUM SCISSOR 7″ CURVED DELICATE
4	**34-4031**	CRILE HEMOSTATIC FORCEP 5½″ CURVED
2	**34-4071**	ROCHESTER-PEAN HEMOSTATIC FORCEP 6¼″ CURVED
4	**34-4110**	ROCHESTER-OCHSNER HEMOSTATIC FORCEP STRAIGHT 6¼″
2	**33-7000**	ALLIS TISSUE FORCEP 4X5 TEETH 6″
2	**30-4291**	SCHNIDT HEMOSTATIC FORCEP SLIGHTLY CURVED
2	**36-2017**	MAYO-HEGAR NEEDLE HOLDER 7″
2	**36-3015**	RYDER NEEDLE HOLDER 8″
6	**33-5005**	BACKHAUS TOWEL CLAMP 5½″
2	**33-6030**	SPONGE HOLDING FORCEP 9″ STRAIGHT
1	**30-1150**	CUSHING DRESSING FORCEP TIP WIDTH 1.5MM 7″
1	**30-1140**	CUSHING TISSUE FORCEP TIP WIDTH 1.5MM 7″
1	**30-1156**	CUSHING DRESSING FORCEP BAYONET 7¾″
1	**30-1147**	CUSHING TISSUE FORCEP 1X2 TEETH 7¾″
1	**30-1186**	ADSON TISSUE FORCEP 1X2 TEETH
1	**23-1044**	SPINAL FUSION CURETTE 8″ 1
1	**23-1045**	SPINAL FUSION CURETTE 8″ 2
1	**23-1046**	SPINAL FUSION CURETTE 8″ 3
1	**23-1054**	SPINAL FUSION CURETTE 8″ 1 ANGULAR
1	**23-1055**	SPINAL FUSION CURETTE 8″ 2 ANGULAR
1	**23-1056**	SPINAL FUSION CURETTE 8″ 3 ANGULAR
1	**231130C**	EPSTEIN CURETTTES 8″ 000
1	**231131C**	EPSTEIN CURETTES 8″ 00
1	**231132C**	EPSTEIN CURETTES 8″ 0
1	**53-1524**	CERVICAL KERRISON RONGEUR 8″ 2MM 40DEG UP
1	**53-1414**	CODMAN LUMBAR KERRISON RONGEUR 8″ 3MM 40DEG UP
1	**53-1420**	CODMAN LUMBAR KERRISON RONGEUR 8″ 5MM 40DEG UP
1	**53-1235**	LOVE-GRUENWALD IVD RONGEUR 7″ STRAIGHT
1	**53-1236**	LOVE-GRUENWALD IVD RONGEUR 7″ CURVED UP
1	**53-1237**	LOVE-GRUENWALD IVD RONGEUR 7″ CURVED DOWN
1	**53-1040**	ADSON CRANIAL RONGEUR STRAIGHT
1	**53-1118**	STILLE-LUER RONGEUR ANGULAR FLAT LOWER JAW 9½″
1	**30-1228**	LIGAMENTA FLAVA FORCEPS CURVED ON SIDE
1	**65-1115**	LANGENBECK PERIOSTEAL ELEVATOR NARROW
1	**65-1116**	LANGENBECK PERIOSTEAL ELEVATOR WIDE
1	**38-1080**	DANDY NERVE HOOK STRAIGHT BLUNT
1	**65-1015**	PENFIELD DISSECTOR BROAD CURVED
1	**65-1016**	PENFIELD DISSECTOR SLIGHTLY CURVED
1	**65-1017**	PENFIELD DISSECTOR FULL CURVED AND WAX PACKER
1	**65-1018**	PENFIELD DISSECTOR SLIGHTLY CURVED LIGHT
1	**65-1002**	HOEN PERIOSTEAL ELEVATOR NO. 2
1	**65-1104**	DORSEY DURAL SEPARATOR
1	**65-6620**	FREER SEPTUM ELEVATOR
1	**59-1000**	WOODSON ELEVATOR AND SPATULA
1	**65-1075**	CUSHING PERIOSTEAL ELEVATOR ROUNDED EDGE
1	**50-1315**	LOVE NERVE ROOT RETRACTOR STRAIGHT
1	**50-1317**	LOVE NERVE ROOT RETRACTOR 135DEG ANGLE
1	**70-1087**	FRAZIER SUCTION TUBE ANGULAR 7½″ 7FR
1	**19-573**	FRAZIER FERGUSON SUCTION TUBE 8FR
1	**70-1088**	FRAZIER SUCTION TUBE ANGULAR 7½″ 9FR
1	**19-575**	FRAZIER FERGUSON SUCTION TUBE 10FR
1	**50-1198**	WEITLANER RETRACTOR SHARP
1	**50-1161**	BECKMAN-ADSON LAMINECTOMY RETRACTOR FOUR PRONG SHARP
1	**61-2515**	INGE LAMINA SPREADER 9½″
1	**61-1026**	CODMAN LUMBAR LAMINA SPREADER #2
1		DISCECTOMY RETR 6CMX1CMLFT
1	**80-1655**	WILLIAMS MICROLUMBAR DISCECTOMY SUCTION TUBE
1	**50-1085**	TAYLOR SPINAL RETRACTOR 3″
1	**50-1086**	TAYLOR SPINAL RETRACTOR 4″
1		DISCECTOMY RETR 6CMX2CM LEFT
1	**80-1653**	WILLIAMS MICROLUMBAR DISCECTOMY RETRACTOR
1	**18-660**	STEEL RULER 6″
1	**21-3002**	LARGE STERILIZING TRAY

1	**32-3347**	CODMAN INSTRUMENT HOLDER 7⅞″ X 3⅛″

Micro Neurosurgery Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**80-1731**	RHOTON DURAL FORCEPS TITANIUM 7″
1	**30-6530**	IRIS TISSUE FORCEP 1X2 TEETH STRAIGHT
1	**80-2005**	MICRO SCISSOR 5½″ STRAIGHT
1	**80-2006**	MICRO SCISSOR 5½″ CURVED
1	**80-2015**	MICRO SCISSOR 7″ STRAIGHT
1	**80-2016**	MICRO SCISSOR 7″ CURVED
1	**80-1722**	RHOTON SCISSORS TITANIUM 8½″ STRAIGHT
1	**80-1723**	RHOTON SCISSORS TITANIUM 8½″ CURVED
1	**80-1510**	MALIS NEEDLE HOLDER 6¾″ .5MM
1	**80-1511**	MALIS NEEDLE HOLDER 6¾″ .5MM
1	**80-2012**	MICRO NEEDLE HOLDER 7″ STRAIGHT
1	**80-2013**	MICRO NEEDLE HOLDER 7″ CURVED
1	**80-1522**	MALIS SCISSORS, TITANIUM, STRAIGHT, BAYONET
1	**80-1523**	MALIS SCISSORS, TITANIUM, CURVED UP, BAYONET
1	**80-1524**	MALIS SCISSORS, TITANIUM STRAIGHT FINE TIP
1	**80-1905**	SPETZLER NEURO-VASCULAR FORCEP STRAIGHT
1	**80-1906**	SPETZLER NEURO-VASCULAR FORCEP ANGLED TIP
1	**53-4000**	DECKER RONGEUR STRAIGHT
1	**54-5604**	DECKER MICROSURGICAL SCISSORS STRAIGHT
1	**32-3701**	(BARON) SUCTION TUBE 3FR
1	**32-3715**	(BARON) SUCTION TUBE 5FR
1	**32-3716**	(BARON) SUCTION TUBE 7FR
1	**21-3001**	MEDIUM STERILIZING TRAY

Abdominal Hysterectomy Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT
1	**36-5061**	MAYO SCISSOR 6¾″ CURVED
1	**36-5016**	METZENBAUM SCISSOR 7″ CURVED
1	**36-5052**	MAYO DISSECTING SCISSOR 9″ STRAIGHT
1	**36-5062**	MAYO DISSECTING SCISSOR 9″ CURVED
1	**32-3578**	CODMAN (JORGENSON) DISSECTING SCISSORS 8½″ CURVED
1	**30-2101TC**	PARAMETRIUM SCS 9 SLCVD
1	**30-2102TC**	PARAMETRIUM SCS 9 CVD
1	**30-2103TC**	PARAMETRIUM SCS 9 FULL CVD
1	**11-5530**	#3 KNIFE HANDLE
1	**11-5535**	#3 LONG KNIFE HANDLE
2	**36-2017**	MAYO-HEGAR NEEDLE HOLDER 7″
2	**36-2018**	MAYO-HEGAR NEEDLE HOLDER 8″
2	**36-2019**	MAYO-HEGAR NEEDLE HOLDER 10″
2	**36-4010**	HEANEY NEEDLE HOLDER 8¼″ CURVED TIP
2	**30-1185**	ADSON DRESSING FORCEP 5″ TIP 1.2MM
2	**30-1186**	ADSON TISSUE FORCEP 1X2 TEETH
1	**30-4135**	DRESSING FORCEP SERRATED 6″
1	**30-4153**	TISSUE FORCEP 1X2 TEETH 6″
1	**30-4138**	DRESSING FORCEPS SERRATED 10″
1	**30-4156**	TISSUE FORCEPS 10″ 1X2 TEETH
1	**30-4221**	RUSSIAN TISSUE FORCEPS 8″
1	**30-4222**	RUSSIAN TISSUE FORCEP 10″
1	**37-1012**	DEBAKEY VASUCULAR TISSUE FORCEPS 9½″
6	**34-4031**	CRILE HEMOSTATIC FORCEP 5½″ CURVED
4	**34-4071**	ROCHESTER-PEAN HEMOSTATIC FORCEP 6¼″ CURVED
2	**34-4091**	ROCHESTER-PEAN HEMOSTATIC FORCEP 8″ CURVED
2	**34-4130**	ROCHESTER OCHSNER FORCEPS 8″ STRAIGHT
2	**32-4131**	ROCHESTER OCHSNER FORCEPS 8″ CURVED
2	**33-7010**	ALLIS TISSUE FORCEP 5X6 TEETH 7¼″
2	**33-7025**	BABCOCK TISSUE FORCEP 7¾″
2	**30-4502**	LAHEY GALL DUCT FORCEPS 8¾″
4	**33-5005**	BACKHAUS TOWEL CLAMP 5½″
2	**33-6030**	SPONGE HOLDING FORCEP 9″ STRAIGHT
1	**30-5580**	SCHROEDER UTERINE TENACULUM FORCEPS
2	**30-1900**	Z HYST FORCEPS STR 8¼″
2	**30-1901**	Z HYST FORCEPS SLCVD 8¼″
2	**30-1902**	Z HYST FORCEPS CVD 8¼″
2	**30-1903**	Z HYST FORCEPS ANG 8¼″
2	**30-1904**	Z HYST FORCEPS STR 9½″
2	**30-1905**	Z HYST FORCEPS SLCVD 9½″
2	**30-1906**	Z HYST FORCEPS CVD 9½″
2	**30-1907**	Z HYST FORCEPS ANG 9½″
1	**50-4071**	US ARMY RETRACTORS
1	**504135C**	RICHARDSON-EASTMAN RETRACTORS
1	**50-4210**	RIBBON RETRACTOR 1″ X 13″
1	**50-4212**	RIBBON RETRACTOR 1½″ X 13″
1	**50-4214**	RIBBON RETRACTOR 2″ X 13″
1	**50-4303**	DEAVER RETRACTOR 1″ X 12″
1	**50-4307**	DEAVER RETRACTOR 2″ X 12″
1	**50-4113**	KELLY RETRACTOR XTRA LARGE
1	**50-4514**	BALFOUR ABDOMINAL RETRACTOR
1	**70-4000**	POOL SUCTION TUBE 23FR

OB-GYN TRAYS

1	**70-4026**	YANKAUER SUCTION TUBE 10⅜″
1	**21-3002**	LARGE STERILIZING TRAY
2	**32-3348**	CODMAN INSTRUMENT HOLDER 9⅞″ X 3⅛″

A&P Repair Set

SUGG	PRODUCT CODE	DESCRIPTION
4	**34-4041**	CRILE HEMOSTATIC FORCEP 6¼″ CURVED
1	**9-146**	DESCHAMPS LIGATURE CARRIER SHARP LEFT
1	**9-148**	DESCHAMPS LIGATURE CARRIER SHARP RIGHT
4	**33-7001**	ALLIS TISSUE FORCEPS 6″ 5X6 TEETH
1	**30-4220**	RUSSIAN TISSUE FORCEP 6″
1	**30-4221**	RUSSIAN TISSUE FORCEPS 8″
2	**30-4088**	LAHEY THYROID TENACULUM FORCEPS
1	**21-3000**	SMALL STERILZING CASE

Caesarean Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT
1	**36-5061**	MAYO SCISSOR 6¾″ CURVED
1	**34-4013**	LISTER BANDAGE SCISSOR 7½″
1	**36-5016**	METZENBAUM SCISSOR 7″ CURVED
2	**11-5530**	#3 KNIFE HANDLE
6	**34-4071**	ROCHESTER-PEAN HEMOSTATIC FORCEP 6¼″ CURVED
4	**34-4120**	ROCHESTER-OCHSNER HEMOSTATIC FORCEP 7¼″ STRAIGHT
4	**30-4542**	ALLIS-ADAIR TISSUE FORCEP 9″ X 10″ TEETH
2	**36-2017**	MAYO-HEGAR NEEDLE HOLDER 7″
2	**36-2016**	MAYO-HEGAR NEEDLE HOLDER 6″
1	**30-1186**	ADSON TISSUE FORCEP 1X2 TEETH
1	**30-4138**	DRESSING FORCEPS SERRATED 10″
1	**30-4155**	TISSUE FORCEP 8″
1	**30-4221**	RUSSIAN TISSUE FORCEPS 8″
1	**50-5575**	DELEE UNIVERSAL RETRACTOR
4	**33-5005**	BACKHAUS TOWEL CLAMP 5½″
4	**33-6030**	SPONGE HOLDING FORCEP 9″ STRAIGHT
1	**21-3001**	MEDIUM STERILIZING TRAY
1	**32-3347**	CODMAN INSTRUMENT HOLDER 7⅞″ X 3⅛″

Colpotomy Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**36-5052**	MAYO DISSECTING SCISSOR 9″ STRAIGHT
1	**36-5062**	MAYO DISSECTING SCISSOR 9″ CURVED
1	**36-5017**	METZENBAUM SCISSOR 9″ CURVED
1	**11-5535**	#3 LONG KNIFE HANDLE
2	**33-4081**	ROCHESTER-PEAN HEMOSTATIC FORCEP 7¼″ CURVED
2	**33-7010**	ALLIS TISSUE FORCEP 5X6TEETH 7¼″
4	**33-5005**	BACKHAUS TOWEL CLAMP 5½″
1	**33-6030**	SPONGE HOLDING FORCEP 9″ STRAIGHT
1	**36-2018**	MAYO-HEGAR NEEDLE HOLDER 8″
1	**30-4137**	DRESSING FORCEP 8″
1	**30-4155**	TISSUE FORCEP 8″
1	**37-1011**	DEBAKEY VASCULAR TISSUE FORCEPS 7¾″
1	**30-5561**	BOZEMAN UTERINE DRESSING FORCEP, CURVED
1	**30-5580**	SCHROEDER UTERINE TENACULUM FORCEPS
2	**50-5570**	HEANEY-SIMON HYSTERECTOMY RETRACTOR
1	**79-5509**	AUVARD VAGINAL WEIGHTED SPECULA 3½″
1	**21-3001**	MEDIUM STERILIZING TRAY
1	**32-3347**	CODMAN INSTRUMENT HOLDER 7⅞″ X 3⅛″

D&C Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**30-4138**	DRESSING FORCEPS SERRATED 10″
1	**30-4156**	TISSUE FORCEPS 10″ 1X2 TEETH
2	**33-5005**	BACKHAUS TOWEL CLAMP 5½″
2	**33-6030**	SPONGE HOLDING FORCEP 9″ STRAIGHT
1	**30-220**	SIMS VAGINAL SPECULUM DOUBLE ENDED LARGE
1	**50-5570**	HEANEY-SIMON HYSTERECTOMY RETRACTOR
1	**79-5509**	AUVARD VAGINAL WEIGHTED SPECULA 3½″
1	**25-5549**	HANKS UTERINE DILATOR SET
1	**58-5669**	SIMPSON UTERINE SOUND
1	**23-5535**	SIMS UTERINE CURETTE NO. 2
1	**23-5537**	SIMS UTERINE CURETTE NO. 4
1	**23-5538**	SIMS UTERINE CURETTE NO. 5
1	**23-5574**	MODIFIED YOUNGE ENDOMETRIAL BIOPSY CURETTE
1	**30-5640**	LAUFE UTERINE POLYP FOCEP, CURVED
1	**30-5580**	SCHROEDER UTERINE TENACULUM FORCEPS
1	**29-32-14**	FEMALE CATHETER 14FR
1	**21-3001**	MEDIUM STERILIZING TRAY

OB GYN X-Long Set

SUGG	PRODUCT CODE	DESCRIPTION
2	**32-3686**	(MAYO-HEGAR) NEEDLE HOLDER 14″
1	**32-3596**	CODMAN SUPER CUT BARIATRIC SCISSOR 13⅞″ CURVED
1	**30-2109TC**	PARAMETRIUM SCS 12 SLCVD
1	**30-2110TC**	PARAMETRIUM SCS 12 CVD
1	**30-2111TC**	PARAMETRIUM SCS 12 FULL CVD
2	**30-4700**	BRIDGE INTESTINAL FORCEP, CURVED
2	**30-8092**	ROCHESTER-CARMALT HEMOSTATIC FORCEP 12¼″
2	**30-1908**	Z HYST FCPS 12″ STR
2	**30-1909**	Z HYST FCPS 12″ SLCVD
2	**30-1910**	Z HYST FCPS 12″ CVD
2	**30-1911**	Z HYST FCPS 12″ ANG
2	**30-1912**	Z HYST FCPS 14″ STR
2	**30-1913**	Z HYST FCPS 14″ SL CVD
2	**30-1914**	Z HYST FCPS 14″ CVD
2	**30-1915**	Z HYST FCPS 14 ANG
1	**32-3541**	BARIATRIC THUMB FORCEPS 14″
1	**32-3542**	BARIATRIC TISSUE FORCEPS 14″ 1X2 TEETH
1	**32-3543**	(RUSSIAN) TISSUE FORCEP 14″
1		SINGLEY TISS FCPS 14
1	**32-3361**	CODMAN BARIATRIC SUCTION TUBE 15″
1	**32-3362**	(YANKAUER) SUCTION TUBE 12¾″
1	**21-3002**	LARGE STERILIZING TRAY
1	**32-3348**	CODMAN INSTRUMENT HOLDER 9⅞″ X 3⅛″

Vaginal Hysterectomy Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT
1	**36-5061**	MAYO SCISSOR 6¾″ CURVED
1	**36-5052**	MAYO DISSECTING SCISSOR 9″ STRAIGHT
1	**36-5062**	MAYO DISSECTING SCISSOR 9″ CURVED
1	**36-5017**	METZENBAUM SCISSOR 9″ CURVED
1	**30-2101TC**	PARAMETRIUM SCS 9 SLCVD
1	**30-2102TC**	PARAMETRIUM SCS 9 CVD
1	**30-2103TC**	PARAMETRIUM SCS 9 FULL CVD
2	**36-4010**	HEANEY NEEDLE HOLDER 8¼″ CURVED TIP
2	**36-2018**	MAYO-HEGAR NEEDLE HOLDER 8″
1	**30-4222**	RUSSIAN TISSUE FORCEP 10″
1	**30-4137**	DRESSING FORCEP 8″
1	**30-4155**	TISSUE FORCEP 8″
1	**11-5535**	#3 LONG KNIFE HANDLE
1	**4-12**	#3 LONG ANGLED KNIFE HANDLE
4	**30-8085**	WILLAUER-ALLIS THORACIC TISSUE FORCEP 10″
1	**30-5580**	SCHROEDER UTERINE TENACULUM FORCEPS
2	**34-4130**	ROCHESTER OCHSNER FORCEPS 8″ STRAIGHT
1	**30-5605**	JACOBS UTERINE VULSELLUM FORCEP 8¼″
1	**29-32-14**	FEMALE CATHETER 14FR
1	**50-4316**	DEAVER RETRACTOR 1″ X 12″
2	**50-5570**	HEANEY-SIMON HYSTERECTOMY RETRACTOR
1	**50-4547**	MAGRINA BOOKWALTER VAGINAL RETRACTOR
1	**79-5509**	AUVARD VAGINAL WEIGHTED SPECULA 3½″
1	**79-5510**	AUVARD VAGINAL WEIGHTED SPECULA 4″
1	**30-5561**	BOZEMAN UTERINE DRESSING FORCEP, CURVED
4	**30-5526**	HEANEY HYSTERECTOMY FORCEP HEAVY JAWS
2	**30-1904**	Z HYST FORCEPS STR 9½″
2	**30-1905**	Z HYST FORCEPS SLCVD 9½″
2	**30-1906**	Z HYST FORCEPS CVD 9½″
2	**30-1907**	Z HYST FORCEPS ANG 9½″
1	**70-4026**	YANKAUER SUCTION TUBE 10⅜″
1	**21-3002**	LARGE STERILIZING TRAY
1	**32-3348**	CODMAN INSTRUMENT HOLDER 9⅞″ X 3⅛″

ORTHOPEDIC TRAYS

Amputation Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**54-4013**	LISTER BANDAGE SCISSOR 7¼″
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT
1	**36-5061**	MAYO SCISSOR 6¾″ CURVED
4	**34-4031**	CRILE HEMOSTATIC FORCEP 5½″ CURVED
6	**34-4110**	ROCHESTER-OCHSNER HEMOSTATIC FORCEP STRAIGHT 6¼″
1	**11-5531**	#4 KNIFE HANDLE
1	**36-2016**	MAYO-HEGAR NEEDLE HOLDER 6″
1	**30-4153**	TISSUE FORCEP 1X2 TEETH 6″
1	**27-1602**	LISTON AMPUTATING KNIFE
1	**53-1130**	STILLE-LUER RONGEUR 8½″ STRAIGHT
1	**30-1296**	STILLE-LISTON BONE CUTTING FORCEP CURVED
1	**32-3402**	CODMAN CURETTE 9″ 0
1	**32-3405**	CODMAN CURETTE 9″ 3
1	**65-2514**	KEY PERIOSTEAL ELEVATOR 1″
1	**65-1115**	LANGENBECK PERIOSTEAL ELEVATOR NARROW
1	**65-1116**	LANGENBECK PERIOSTEAL ELEVATOR WIDE
1	**11-1015**	GIGLI SAW HANDLES LOOP
1	**27-702**	PUTTIE BONE RASP 12″
1	**27-1560**	SATTERLEE BONE SAW 12″
1		SWEET AMPUTATION RET
1		STEEL RULER 12″
1	**21-3002**	LARGE STERILIZING TRAY
1	**32-3346**	CODMAN INSTRUMENT HOLDER 5⅞″ X 3⅛″

Hand Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**54-4013**	LISTER BANDAGE SCISSOR 7¼″
1	**32-3577**	SUPER CUT METZENBAUM SCISSOR 5¾″
1	**36-5016**	METZENBAUM SCISSOR 7″ CURVED
1	**36-5000**	IRIS SCISSOR STRAIGHT 4½″
1	**36-5001**	IRIS SCISSOR CURVED 4½″
1	**32-3577**	DELICATE LAHEY SCISSOR CURVED 5¾″
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT
4	**33-5000**	BACKHAUS TOWEL CLAMPS 3½″
2	**36-1015**	HALSEY NEEDLE HOLDER 5″ SERRATED JAW
1	**36-2000**	CRILE-WOOD NEEDLE HOLDER 6″
1	**30-1185**	ADSON DRESSING FORCEP 5″ TIP 1.2MM
1	**30-1186**	ADSON TISSUE FORCEP 1X2 TEETH
1	**30-1189**	ADSON TISSUE FORCEP BROWN TYPE TEETH
1	**30-6530**	IRIS TISSUE FORCEP 1X2 TEETH STRAIGHT
1	**30-4153**	TISSUE FORCEP 1X2 TEETH 6″
2	**11-5530**	#3 KNIFE HANDLE
2	**34-4000**	HALSTED MOSQUITO FORCEP 5″ STRAIGHT
2	**34-4001**	HALSTED MOSQUITO FORCEP 5″ CURVED
2	**30-4473**	MOSQUITO HEMOSTATIC FORCEPS 5″ STRAIGHT
2	**30-4474**	MOSQUITO HEMOSTATIC FORCEPS 5″ CURVED
2	**30-4466**	ALLIS DELICATE TISSUE FORCEP 5X6 TEETH 5″
2	**32-4100**	KOCHER HEMOSTATIC FORCEP 1X2 TEETH STRAIGHT
2	**30-4462**	PEAN DELICATE HEMOSTATIC FORCEP, CURVED 5½″
1	**30-4485**	MIXTER DELICATE HEMOSTATIC FORCEPS, RIGHT ANGLE 5¼″
1	**30-4494**	DELICATE RIGHT ANGLE CLAMP 7″
2	**33-6030**	SPONGE HOLDING FORCEP 9″ STRAIGHT
1	**27-1016**	MILTEX TENDON PULLING FORCEP 5″
1	**56-2507**	KIRSCHNER WIRE CUTTER
1	**18-660**	STEEL RULER 6″
1	**32-3533**	CODMAN TENDON PASS FORCEP 6″ 8MM TIP
1	**39-6500**	CASTROVIEJO CALIPER
1	**50-5647**	WEITLANER RETRACTOR BLUNT
1	**32-3602**	GELPI RETRACTOR PEDIATRIC
2	**50-4260**	SENN RETRACTOR SHARP
2	**38-6642**	JOSEPH NASAL HOOK SINGLE PRONG
2	**38-6646**	JOSEPH NASAL HOOK DOUBLE PRONG 3⁄16″
2	**50-1073**	MEYERDING FINGER RETRACTOR D
1	**32-3313**	LEAD HAND ADULT
1	**32-3312**	LEAD HAND PEDIATRIC
2	**27-213**	MINI HOHMANN RETRACTOR 6¼″ 6MM
1	**70-1088**	FRAZIER SUCTION TUBE ANGULAR 7½″ 9FR
1	**46-3060**	STRAIGHT STILETTO OSTEOTOME SET
1	**52-1005**	JOSEPH PERIOSTEAL RASP
1	**53-1311**	RUSKIN BONE RONGEUR 7¼″ 4MM X 33MM
1	**30-1310**	LISTON BONE CUTTING FORCEP
1	**21-3002**	LARGE STERILIZING TRAY
1	**32-3347**	CODMAN INSTRUMENT HOLDER 7⅞″ X 3⅛″

Major Ortho Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**11-5530**	#3 KNIFE HANDLE
1	**11-5535**	#3 LONG KNIFE HANDLE
1	**54-4013**	LISTER BANDAGE SCISSOR 7¼″
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT

1	**36-5061**	MAYO SCISSOR 6¾″ CURVED
1	**36-5016**	METZENBAUM SCISSOR 7″ CURVED
2	**34-4030**	CRILE HEMOSTATIC FORCEP 5½″ STRAIGHT
4	**34-4031**	CRILE HEMOSTATIC FORCEP 5½″ CURVED
2	**34-4071**	ROCHESTER-PEAN HEMOSTATIC FORCEP 6¼″ CURVED
2	**34-4120**	ROCHESTER-OCHSNER HEMOSTATIC FORCEP 7¼″ STRAIGHT
4	**33-7001**	ALLIS TISSUE FORCEPS 6″ 5X6 TEETH
2	**19-5582**	GEMINI HEMOSTATIC FORCEP 9″
2	**33-6030**	SPONGE HOLDING FORCEP 9″ STRAIGHT
4	**33-5005**	BACKHAUS TOWEL CLAMP 5½″
2	**36-2016**	MAYO-HEGAR NEEDLE HOLDER 6″
2	**36-2017**	MAYO-HEGAR NEEDLE HOLDER 7″
2	**30-1186**	ADSON TISSUE FORCEP 1X2 TEETH
2	**30-4153**	TISSUE FORCEP 1X2 TEETH 6″
1	**30-4156**	TISSUE FORCEPS 10″ 1X2 TEETH
1	**30-1129**	BONNEY TISSUE FORCEP 1X2 TEETH 6¾″
1		STEEL RULER 12″
1	**50-4071**	US ARMY RETRACTORS
1	**50-4135C**	RICHARDSON-EASTMAN RETRACTORS
2	**50-4222CO**	VOLKMANN RETRACTOR 4 PRONG SHARP
2	**50-8072**	MURPHY RETRACTOR FOUR PRONG SHARP
2	**50-1196**	WEITLANER RETRACTOR SHARP 6½″
2	**50-1210**	GELPI RETRACTOR
1	**11-580**	BENNETT TIBIA RETRACTOR SMALL BLADE
1	**11-582**	BENNETT TIBIA RETRACTOR LARGE BLADE
1	**37-4106**	COBRA RETRACTOR BLUNT
1	**27-680**	MURPHY-LANE BONE SKID
1	**27-215**	HOHMANN RETRACTOR 10MM
1	**27-216**	HOHMANN RETRACTOR 18MM
1	**27-218**	HOHMANN RETRACTOR 43MM
1	**27-219**	HOHMANN RETRACTOR 70MM
1	**18-657**	THORPE CALIPER
1	**27-1392**	LISTON BONE CUTTING FORCEP 7½″ STRAIGHT
1	**53-1040**	ADSON CRANIAL RONGEUR STRAIGHT
1	**65-1115**	LANGENBECK PERIOSTEAL ELEVATOR NARROW
1	**65-2546**	COBB SPINAL ELEVATOR ½″
1	**65-2547**	COBB SPINAL ELEVATOR ¾″
1	**32-3425**	CODMAN HEAVY DUTY BONE HOOK SHARP
1	**32-3335**	CODMAN UTILITY PLIERS 7¾″
1	**65-6620**	FREER SEPTUM ELEVATOR
1	**32-3454**	CODMAN BONE TAMP 6MM
1	**32-3330**	CODMAN HEATH MALLET, FLAT
1	**27-700**	PUTTI BONE RASP 10½″
1	**65-2512**	KEY PERIOSTEAL ELEVATOR ½″
1	**65-2513**	KEY PERIOSTEAL ELEVATOR ¾″
1	**65-2514**	KEY PERIOSTEAL ELEVATOR 1″
1	**32-3472**	CODMAN CURETTE 9″ 00
1	**32-3474**	CODMAN CURETTE 9″ 1
1	**32-3476**	CODMAN CURETTE 9″ 3
1	**32-3482**	CODMAN CURETTE 9″ 00 FORWARD ANGLE
1	**32-3484**	CODMAN CURETTE 9″ 1 FORWARD ANGLE
1	**32-3486**	CODMAN CURETTE 9″ 3 FORWARD ANGLE
1	**19-575**	FRAZIER-FERGUSON SUCTION TUBE 10FR
1	**19-577**	FRAZIER-FERGUSON SUCTION TUBE 12FR
1	**21-3002**	LARGE STERILIZING TRAY
1	**32-3347**	CODMAN INSTRUMENT HOLDER 7⅞″ X 3⅛″

Minor Ortho Set

SUGG	PRODUCT CODE	DESCRIPTION
1	**54-4013**	LISTER BANDAGE SCISSOR 7¼″
1	**36-5051**	MAYO SCISSOR 6¾″ STRAIGHT
1	**36-5061**	MAYO SCISSOR 6¾″ CURVED
1	**36-5016**	METZENBAUM SCISSOR 7″ CURVED
1	**36-5080**	WIRE SUTURE SCISSORS 4¾″
6	**33-5005**	BACKHAUS TOWEL CLAMP 5½″
2	**33-6030**	SPONGE HOLDING FORCEP 9″ STRAIGHT
2	**11-5530**	#3 KNIFE HANDLE
4	**34-4001**	HALSTED MOSQUITO FORCEP 5″ CURVED
2	**34-4041**	CRILE HEMOSTATIC FORCEP 6¼″ CURVED
2	**34-4071**	ROCHESTER-PEAN HEMOSTATIC FORCEP 6¼″ CURVED
2	**34-4110**	ROCHESTER-OCHSNER HEMOSTATIC FORCEP STRAIGHT 6¼″
2	**33-7000**	ALLIS TISSUE FORCEP 4X5 TEETH 6″
2	**30-4500**	LAHEY GALL DUCT FORCEP LONGITUDINAL SERRATIONS
2	**36-2000**	CRILE-WOOD NEEDLE HOLDER 6″
2	**36-2016**	MAYO-HEGAR NEEDLE HOLDER 6″
2	**30-1186**	ADSON TISSUE FORCEP 1X2 TEETH
1	**30-4153**	TISSUE FORCEP 1X2 TEETH 6″
1	**30-4220**	RUSSIAN TISSUE FORCEP 6″
1	**26-956**	FERRIS SMITH TISSUE FORCEP 1X2 TEETH
1	**27-215**	HOHMANN RETRACTOR 10MM

ORTHOPEDIC TRAYS

1	**27-216**	HOHMANN RETRACTOR 18MM
1	**50-4135C**	RICHARDSON-EASTMAN RETRACTORS
1	**50-1212**	POPPEN-GELPI LAMINECTOMY RETRACTOR
1	**50-1194**	WEITLANER RETRACTOR 5½″ SHARP
2	**50-4222CO**	VOLKMANN RETRACTOR 4 PRONG SHARP
2	**50-1020**	CUSHING VEIN RETRACTOR 9″
1	**50-4071**	US ARMY RETRACTORS
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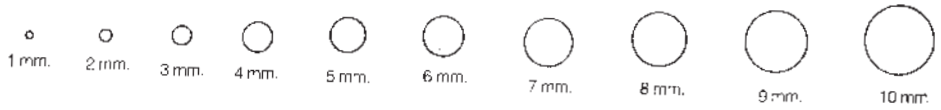
Codman

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80-6006 . . . . . .NEURO-62, OB-GYN-5, OB-GYN-15, PED-32, PED-35
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81-1002 . . . . . .NEURO-105
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BW1043029 . . . . . .BW-19–20, GEN-90–91, OBE-51–53
BW1045000 . . . . . .BW-19–20, GEN-90–91, OBE-51–53
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BW1045176 . . . . . .BW-19–20, GEN-90–91, OBE-51–53
BW1045BKIT . .BW-20, GEN-90, OBE-52
BW1045BRT . .BW-20, GEN-91, OBE-53
BW1046BKIT . .BW-19, GEN-91, OBE-51
BW1046BRT . .BW-19, GEN-90, OBE-52
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SP00144-1 . . . . . .GEN-101

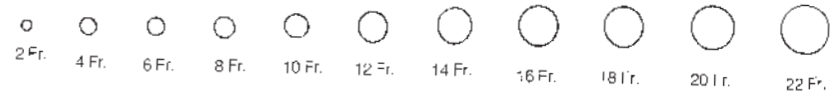
An increasing acceptance of the metric system as a worldwide standard, has prompted the conversion of all English dimensions in this catalog to an approximate metric measurement. In some cases where there is a very finite difference in size relationship throughout a product line, metric measurements are given only. In all other cases, to best assist in this conversion, measurements are provided in both inches and millimeters. The following conversion chart provides a quick reference for the English, Metric, and French Systems.

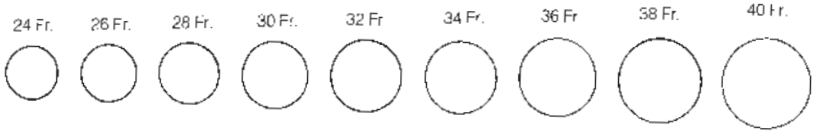
Multiply	By	To Obtain
Millimeters	0.1	Centimeters
Millimeters	0.03937	Inches
Centimeters	0.3937	Inches
Centimeters	0.01	Meters
Centimeters	10	Millimeters
Inches	2.540	Centimeters

Millimeters

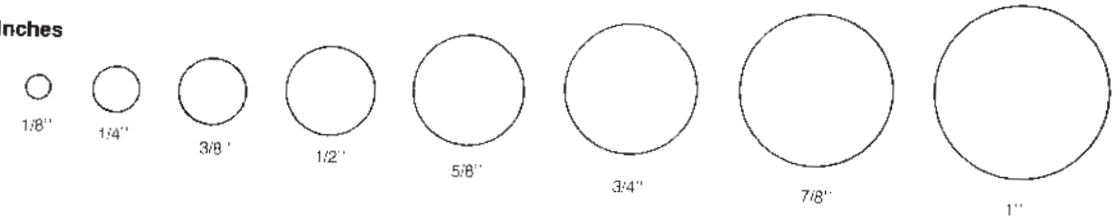


French





Inches







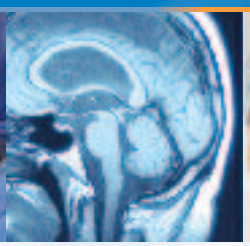
CONVERSION CHART

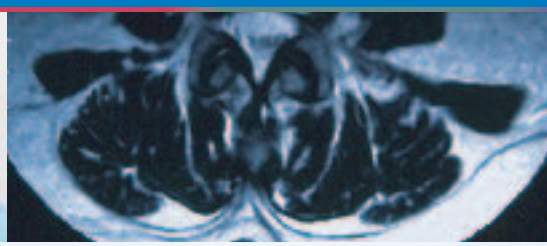
NEEDLE AND CATHETER REFERENCE CHART

Hypodermic Needle Tubing				French Catheter Sizes			Millimeter/Inch/Centimeter Conversion			
	O.D. In.	I.D. Reg. Wall	I.D. Thin Wall	French Size	O.D. mm	O.D. In.	mm	In.	In.	cm
33	.008	.004	.005	1	⅓	.013	¼	.0098	¼	.63
32	.009	.004	.005	2	⅔	.026	½	.0197	½	1.27
31	.010	.005	.006	3	1	.039	¾	.0295	¾	1.90
30	.012	.006	.007	4	1⅓	.053	1	.0394	1	2.54
29	.013	.007	.008	5	1⅔	.066	2	.0787	2	5.08
28	.014	.007	.008	6	2	.079	3	.1181	3	7.62
27	.016	.008	.010	7	2⅓	.092	4	.1574	4	10.16
26	.018	.010	.012	8	2⅔	.105	5	.1968	5	12.70
25	.020	.010	.012	9	3	.118	6	.2362	6	15.24
24	.022	.012	.014	10	3⅓	.131	7	.2755	7	17.78
23	.025	.013	.015	11	3⅔	.144	8	.3149	8	20.32
22	.028	.016	.018	12	4	.158	9	.3543	9	22.86
21	.032	.020	.022	13	4⅓	.170	10	.3937	10	25.40
20	.035	.023	.025	14	4⅔	.184	11	.4330	11	27.94
19	.042	.027	.031	15	5	.197	12	.4724	12	30.48
18	.050	.033	.042	16	5⅓	.210	13	.5118	13	33.02
17	.059	.041	.046	17	5⅔	.223	14	.5511	14	35.56
16	.065	.047	.052	18	6	.236	15	.5905	15	38.10
15	.072	.054	.059	19	6⅓	.249	16	.6299	16	40.64
14	.083	.063	.071	20	6⅔	.263	17	.6692	17	43.18
13	.095	.071	.077	21	7	.276	18	.7086	18	45.72
12	.109	.085	.091	22	7⅓	.288	19	.7483	19	48.26
11	.120	.094	.100	23	7⅔	.302	20	.7874	20	50.80
10	.134	.106	.114	24	8	.315	21	.8267	21	53.34
9	.148	.118	.126	25	8⅓	.328	22	.8661	22	55.88
8	.165	.135	.143	26	8⅔	.341	23	.9055	23	58.42
7	.180	.150	.158	27	9	.354	24	.9448	24	60.96
6	.203	.173	.181	28	9⅓	.367	25	.9842	25	63.50

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