



SURGICAL  
PRODUCT  
CATALOG



Codman

# ALPHABETICAL INDEX

## A

### ACCU-FLO

- burr hole button . . . . . I-18
- burr hole cover . . . . . I-18
- connectors . . . . . I-16, I-39
- CSF reservoir . . . . . I-17
- distal catheter . . . . . I-15
- reservoirs . . . . . I-17
- U-channel stripping . . . . . I-44
- ventricular catheter . . . . . I-15–I-16

### ADAIR

- breast clamp . . . . . O-4

### ADSON

- bipolar forceps . . . . . N-33, N-83
- cerebellar retractor . . . . . N-134
- cranial rongeur . . . . . N-140, N-147, S-122
- dissecting hook . . . . . N-110
- dressings forceps . . . . . G-33–G-34, N-94
- drill guide and dura protector . . . . . N-74
- dural needle holder . . . . . N-119
- ganglion scissors . . . . . N-155
- hemostatic forceps . . . . . G-11–G-12
- hypophyseal forceps . . . . . N-101
- perforating burr . . . . . N-70
- periosteal elevator . . . . . S-53
- suction tube . . . . . N-165
- tissue forceps . . . . . G-35–G-36

### ALEXANDER

- periosteotome . . . . . C-55

### ALLEN

- intestinal anastomosis clamp . . . . . G-22

### ALLIS

- tissue forceps . . . . . G-29–G-30

### ALLIS-ADAIR

- tissue forceps . . . . . G-30

### ALLISON

- lung retractor . . . . . C-56

### ALM

- retractor . . . . . G-76

### AMERICAN

- umbilical scissors . . . . . O-18

### ANDERSON-ADSON

- scalp retractor . . . . . G-77, N-134

### ANDREWS-PYNCHON

- suction tube . . . . . G-111

### Aneuroplastic Kit

- . . . . . N-1, N-57

### Aneurysm

- case . . . . . G-139, N-22
- clip applicators . . . . . N-5, N-16
- clip applicators, mini . . . . . N-20–N-21
- clip tray . . . . . N-6
- clips . . . . . N-7–N-15, N-20
- graft clips . . . . . N-17

### Aneurysm Clip

- VARI-ANGLE McFADDEN trays . . . . . N-6

### ANKENEY

- sternal retractor . . . . . C-65

### Anterior Cervical Plate System

- temporary fixation pins . . . . . S-11

### Anterior Cervical Plates . . . . . S-2, S-10

### Anterior Cervical Plating . . . . . S-1, S-16

### Applicators . . . . . E-1

### Applier . . . . . C-36

### Appliers

- aneurysm clip . . . . . N-16, N-20–N-21
- orbiting . . . . . N-7
- AVM clip . . . . . N-18
- disposable scalp clip . . . . . N-65, N-152
- orbiting . . . . . N-7
- temporary vessel clamp . . . . . N-23
- temporary vessel clip . . . . . N-22

### Approximator

- sternal . . . . . C-1

### AUVARD

- vaginal specula . . . . . O-21

### A-V Fistula Kit, NOON . . . . . C-53, G-128

### AVM Micro Clip System . . . . . N-18

## B

### BABCOCK

- tissue forceps . . . . . G-30–G-31

### BACKHAUS

- towel clamps . . . . . G-2

### BACON

- cranial rongeur . . . . . N-140, N-147, S-123

### BADGLEY

- laminectomy retractor . . . . . S-108

### BAILEY

- gigli saw guides . . . . . N-149

- rib contractor . . . . . C-36

### BAILEY-GIBBON

- rib contractor . . . . . C-36

### BAKES

- dilators . . . . . G-5

### BALFOUR

- abdominal retractor . . . . . G-70–G-74

- center blades . . . . . G-75

- fourth arm attachment . . . . . G-75

- lateral blades . . . . . G-72

### BALLANTINE

- hysterectomy forceps . . . . . O-5

### BALLENGER

- septum elevator . . . . . E-2

- swivel knife . . . . . E-7

### BARNES-CRILE

- hemostatic forceps . . . . . G-12

### BARNHILL

- adenoid curettes . . . . . E-1

### BARON

- suction . . . . . G-110

### BARRAQUER

- needle holder . . . . . E-8

### BARTLEY

- anastomosis clamp . . . . . C-28

### BAUMGARTNER

- needle holder . . . . . G-46

### BECK

- miniature aorta clamp . . . . . C-1

- vessel clamp . . . . . C-28

### BECKMAN

- thyroid retractor . . . . . G-77, S-109

### BECKMAN-ADSON

- laminectomy retractors . . . . . S-109

### BECKMAN-EATON

- laminectomy retractor . . . . . S-109

### BENSON

- pylorus spreader . . . . . G-32

### BERLIND-AUVARD

- vaginal specula . . . . . O-22

### BETHUNE

- rib shears . . . . . C-80

### BEYER

- rongeur . . . . . N-143, S-125

### BEYER (LEMPERT)

- rongeur . . . . . N-140

### BICOL

- collagen sponge . . . . . N-62, N-164

### BIOPLATE

- . . . . . N-3, N-45–N-47

### Bioplate Neurosurgery

- Fixation System . . . . . N-2, N-44

### Biopsy

- vertebral body . . . . . S-5

### Bipolar

- cord/tubing sets . . . . . N-31

### Bipolar Cutter and Coagulator . . . . . N-24, N-27

### Bipolar Forceps

- trigeminal . . . . . N-33, N-83

### Bipolar Irrigating

- forceps . . . . . N-41, N-91

### BISHOP HARMAN

- eye dressing forceps . . . . . E-4

- iris forceps . . . . . E-4

### Blades . . . . . N-3, N-45, N-47

- cranial . . . . . N-52, N-59

- crank frame . . . . . S-84, S-86, S-110–S-111

- GREENBERG tapered . . . . . N-131

- KARLIN . . . . . S-93

- micro . . . . . S-72, S-93

- sternal . . . . . C-66

- sternum saw . . . . . C-73

### BOETTCHER

- tonsil scissors . . . . . E-10

### BOLEY

- retractor . . . . . G-61

### Bolt Kit

- MICROSENSOR . . . . . I-10–I-11

### BONNEY

- tissue forceps . . . . . G-36

### BOOKWALTER

- . . . . . G-113–G-114

- endoscopic instrument holder . . . . . G-82

- fiberoptic light . . . . . G-82

- GELPI point retractor blade . . . . . G-91

- horizontal bar . . . . . G-87

- horizontal flex bar . . . . . G-87

- IMA retractor kit . . . . . C-70, G-83, G-119

- MAGRINA vaginal

- retractor . . . . . G-45, G-86, O-14, O-17

- medium round ring segments . . . . . G-88

- post coupling . . . . . G-86

- ratchet mechanism . . . . . G-87

- rectal blades . . . . . G-94

- rectal kit . . . . . G-43, G-84

- retractor blades . . . . . G-92

- retractor kit II . . . . . G-42, G-81

- retractor rings . . . . . G-87

- RICHARDSON blades . . . . . G-94

- round rings . . . . . G-88

- segmented rings . . . . . G-89

# ALPHABETICAL INDEX

## BOOKWALTER – Continued

small incision kit . . . . . G-44, G-85  
 spinal retractor . . . . . G-84, S-119  
     MEYERDING blade . . . . . G-93, S-121  
     rake . . . . . G-93, S-121  
 spinal retractor case . . . . . G-120, S-122  
 spinal retractor ring . . . . . S-119  
 table post . . . . . G-86  
 vaginal blades . . . . . G-90–G-91, G-95  
 vertical extension bar . . . . . G-87

## BOOKWALTER-BALFOUR

retractor blade . . . . . G-90

## BOOKWALTER-HARRINGTON

retractor blade . . . . . G-91

## BOOKWALTER-KELLY

retractor blade . . . . . G-92

## BOOKWALTER-SCOVILLE

hooks . . . . . G-94, S-120

## BOSTON LYING-IN

cervical grasping forceps . . . . . O-4

## BOWMAN

lachrymal probes . . . . . G-55

## BOZEMAN

uterine dressing forceps . . . . . O-10

## Braces

cranial . . . . . N-72

## BRAIN

dressing forceps . . . . . N-94

tissue forceps . . . . . N-99

## BRAUN

episiotomy scissors . . . . . O-18

## BRIDGE

intestinal forceps . . . . . C-40

## BRIGHAM

brain tumor forceps . . . . . N-101

tissue forceps . . . . . G-36

## BRITETRAC

fiberoptic instrument . . . . . H-6, H-8

mammary . . . . . H-7

## BROWN

tissue forceps . . . . . G-37

## BUCK

ear ring curettes . . . . . E-1

## BUCY-FRAZIER

monopolar cautery cord . . . . . N-42, N-92

## BUIE

pile clamps . . . . . G-27

## Bulldog Clamp

COOLEY . . . . . C-8

JACOBSON . . . . . C-11

## Bulldog Clamps

mini

WELDON . . . . . C-12

WELDON . . . . . C-12

## BUNNELL

hand drill . . . . . N-74

## BUNTS

forceps holder . . . . . G-56, G-115

## BURFORD-FINOCHIETTO

rib retractor . . . . . C-60–C-61

## Burr Hole

button . . . . . I-18

cover . . . . . I-18

## Burrs

cerebellar extension . . . . . N-72

cranial . . . . . G-126, N-70–N-73

## BUSCH

umbilical scissors . . . . . O-18

## Buttons

burr hole . . . . . I-18

## C

### Cable

bone fixation wire . . . . . S-6, S-155

CMC III footpedal/irrigation

    cable . . . . . N-32

    fiberoptic . . . . . G-133

    SOF'WIRE . . . . . S-6–S-7, S-155–S-156

### Calipers

eye . . . . . E-1

### Camera

camera/light source

    CODMAN WELCH ALLYN VDX-300

    Illumination & Imaging Platform . . . . . N-81

### CAMPBELL

nerve root retractor . . . . . S-101

ventricular needle . . . . . I-43

### Cancellous Bone Screws

anterior cervical plate screws . . . . . S-2, S-11

self-tapping anterior cervical

    cancellous bone screws . . . . . S-11

### Cannulas

clips . . . . . I-37

suction . . . . . N-165

ventricular . . . . . I-41–I-42

### Carborundum Grinding Wheel . . . . . N-5, N-59

### CARROLL

periosteal elevator . . . . . N-75

skin hook . . . . . N-112

tendon pulling forceps . . . . . N-101

### Cases

aneurysm clip . . . . . G-137–G-139, N-16, N-22

AVM clip . . . . . N-18

cervical . . . . . G-131, S-91–S-143

cervical microdiscectomy . . . . . S-41, S-81

cervical spanner

    lumbar spanner . . . . . G-131, S-92, S-143

chisels, stiletto . . . . . G-128, S-19, S-67

CIS System . . . . . G-136, N-12

cranial drill . . . . . G-126, N-72

### CROCKARD

transoral . . . . . N-114, S-149

dilator . . . . . C-38, G-122

DUJOVNY micro suction . . . . . G-126

fiberoptic cable . . . . . G-133

gouge and osteotome G-129–G-130, S-97–

    S-98

I.M.A. . . . . G-135

instrument . . . . . G-121, G-125, G-129–G-130,

    N-131, S-97–S-98

interlaminar clamp kit . . . . . G-112

microsurgical . . . . . G-127, G-137

microsurgical bayonet dissectors . . . . . G-125,

    N-172

microsurgical bayonet instrument . . . . . G-118

microsurgical instrument . . . . . G-117–G-118,

    G-134

osteotomes, stiletto . . . . . G-130, S-90, S-99

retractor . . . . . G-125, N-131

## Cases – Continued

SOF'WIRE instruments . . . . . G-135, S-9, S-158

spinal fusion curette . . . . . G-129, S-51

spinal retractor . . . . . G-120, S-122

sterilizing . . . . . C-38, G-112, G-117–G-118,

    G-121–G-122, G-125–G-127, G-129–

    G-130, G-134, G-136, N-12, N-72, N-131,

    N-172, S-51, S-97–S-98

temporary clip . . . . . G-139, N-22

universal bayonet instruments . . . . . G-135

XL lumbar microdiscectomy . . . . . S-42, S-82

XL MAGNUM ring curettes . . . . . S-48, S-77

## CASTANEDA

anastomosis clamp . . . . . C-28

infant sternal retractor . . . . . C-65

kit . . . . . C-51, G-120

multi-purpose clamp . . . . . C-21

partial occlusion clamp . . . . . C-29

suture tag forceps . . . . . C-42

vascular forceps . . . . . C-48

## CASTANEDA-MIXTER

thoracic clamp . . . . . C-42

## CASTROVIEJO

calipers . . . . . E-1

corneal scissors . . . . . E-9

needle holder . . . . . G-46–G-47

## Catheter Passer

. . . . . I-38

## Catheters

distal peritoneal . . . . . I-28

distal shunt . . . . . I-15

HOLTER . . . . . I-30

hydrocephalus shunt . . . . . I-14

intracranial pressure . . . . . I-27–I-28

lumbar . . . . . I-40

lumboperitoneal . . . . . I-34, I-40

peel-away introducer . . . . . N-113

UNI-SHUNT with reservoir . . . . . I-36

ventricular . . . . . I-15–I-16, I-25, I-29

## Cerebellar

retractor

    flexible arm . . . . . N-135

## Cervical Fusion

anterior cervical fusion kit . . . . . S-20

## CHILDREN'S HOSPITAL

dressing forceps . . . . . G-34, G-37

hand drill . . . . . N-74

retractor . . . . . G-62

## Chisels

handle . . . . . S-26

lamina . . . . . S-17

lumbar fusion . . . . . S-17, S-25, S-32

spinal fusion . . . . . S-17, S-25, S-32

spine

    orthopedic . . . . . S-18, S-73

stiletto . . . . . G-128, S-19, S-67

## Clamps

anastomosis . . . . . C-27–C-30, C-32

aorta . . . . . C-1–C-5

aortic aneurysm . . . . . C-5

aortic exclusion . . . . . C-6

auricular appendage . . . . . C-6

A-V fistula . . . . . C-7

breast . . . . . O-4

bronchus . . . . . C-7–C-8

bulldog . . . . . C-8–C-12

    coronary artery . . . . . C-52, G-122



# ALPHABETICAL INDEX

## Clamps – Continued

cardiovascular . . . . . C-1, C-13–C-14, C-51, G-120  
 carotid artery . . . . . C-15–C-16  
 coarctation . . . . . C-17–C-18  
 CODMAN . . . . . C-1, C-13–C-14  
 crile . . . . . C-19  
 gastrointestinal . . . . . G-1  
 GLASSMAN . . . . . G-1  
 hysterectomy . . . . . O-6  
 iliac . . . . . C-19  
 intestinal . . . . . G-22–G-25  
 intestinal anastomosis . . . . . G-23  
 JAVID . . . . . C-15  
 kidney . . . . . G-26  
 ligature carrying . . . . . C-20, C-41  
 liver . . . . . G-27  
 meniscus . . . . . G-1  
 miniature aorta . . . . . C-1  
 multi-purpose . . . . . C-21–C-23  
 partial occlusion . . . . . C-4, C-29  
 patent ductus . . . . . C-23–C-24  
 pelvic . . . . . O-8  
 peripheral vascular . . . . . C-18, C-24–C-25  
 pile . . . . . G-27  
 renal artery . . . . . C-25  
 right angle . . . . . G-28  
 stay suture . . . . . C-42  
 suture tag . . . . . C-42  
 tangential occlusion . . . . . C-26  
 temporary intracranial artery . . . . . N-23  
 thoracic . . . . . C-42–C-46  
 total occlusion . . . . . C-13  
 towel . . . . . G-2–G-3, G-6  
 tubing . . . . . C-27  
 vascular . . . . . C-3, C-22–C-25, C-27–C-35, O-8  
   Clamp . . . . . C-34  
 vena cava . . . . . C-35  
 vessel . . . . . C-28  
 WELDON . . . . . C-12

**Clip Applier** . . . . . C-36

**Clip Appliers**  
 aneurysm . . . . . N-16  
 aneurysm clip applier . . . . . N-5  
 temporary vessel clip applier . . . . . N-22

**Clip Tray**  
 aneurysm clip tray . . . . . N-6

**Clips**  
 aneurysm . . . . . N-7–N-15, N-20  
 appliers . . . . . N-7  
 AVM micro clip system  
   wire . . . . . N-18  
 disposable scalp clip . . . . . N-65, N-152  
 graft . . . . . N-17  
 scalp . . . . . N-64, N-151  
 temporary . . . . . N-21  
 tray . . . . . G-138, N-19  
 UNI-SHUNT anchoring . . . . . I-37  
 wound . . . . . G-3

**CMC III Foot Pedal/Irrigation**  
 cable . . . . . N-32

**Coagulators**  
 floor stand . . . . . N-30  
 wireless remote control . . . . . N-25–N-26, N-30

## COBB

spinal curettes . . . . . S-40  
 spinal elevators . . . . . S-53  
 spinal gouges . . . . . S-60

**COBRA** . . . . . G-70

**CODMAN** . . . . . C-1, C-13–C-14

ADSON retractor . . . . . N-136, S-31  
 aneuroplastic . . . . . N-1, N-57  
 anterior cervical cancellous  
   bone screws . . . . . S-2, S-11  
 anterior cervical plate  
   system . . . . . S-1, S-16  
 anterior cervical plates . . . . . S-2, S-10  
 anterior fusion kit . . . . . S-20  
 blade retractors . . . . . S-33, S-100  
 bone gouges . . . . . S-61  
 bone graft impactor . . . . . S-32  
 bone graft impactor and holder . . . . . S-32  
 bone punch . . . . . S-27  
 bone tap (12mm) . . . . . S-4, S-13  
 bone tap (15mm) . . . . . S-4, S-13  
 CAM tightener assembly . . . . . S-4, S-13  
 cerebellar retractor . . . . . N-135  
 cervical drill guards . . . . . S-22  
 cervical drill tips . . . . . S-22  
 cervical retractor set, large . . . . . S-34  
 cervical retractor set, small . . . . . S-35  
 coagulator floorstand . . . . . N-30  
 cranioblade . . . . . N-52, N-59  
 cranioplastic . . . . . N-4, N-58  
 cross bar handle . . . . . S-21  
 depth gauge . . . . . S-23, S-26  
 dilator case . . . . . C-38, G-122  
 disposable craniotomy kit . . . . . N-50, N-63  
 disposable ICP kit . . . . . I-7  
 disposable ICP luer lock . . . . . I-37  
 disposable perforator . . . . . N-50, N-63  
 disposable scalp clip applier  
   forceps, scalp clip removal . . . . . N-65, N-152  
 dowel cutter center pins . . . . . S-21  
 dowel cutter shaft . . . . . S-21  
 dowel cutters . . . . . S-21  
 dowel ejector . . . . . S-21  
 dowel handle . . . . . S-22  
 dowel impactor . . . . . S-27  
 drill bit (12mm) . . . . . S-3, S-13  
 drill bit (15mm) . . . . . S-3, S-13  
 drill guard cap . . . . . S-22  
 drill guide . . . . . S-4, S-14  
 drill guide/plate holder . . . . . S-3, S-13  
 drill shafts . . . . . S-23  
 dual angle drill guide . . . . . S-5, S-14  
 dural hook . . . . . N-109, S-32, S-65  
 dural retractor . . . . . S-28  
 elevator . . . . . S-23  
 external drainage system . . . . . I-2  
 external drainage system II . . . . . I-3  
 external drainage ventricular set . . . . . I-4  
 forceps . . . . . N-33, N-83  
 forceps plate holder . . . . . S-2, S-11  
 gouge and osteotome case . . . . . G-130, S-98  
 guard guides . . . . . S-23  
 hammer . . . . . S-27, S-33, S-93  
 I.M.A. kit . . . . . C-52

## CODMAN – Continued

ICP monitoring line . . . . . I-4  
 instrument case . . . . . G-121  
 intervertebral disc rongeur . . . . . S-38, S-130  
 laminectomy rongeurs . . . . . S-37, S-138  
 lubricant  
   power system . . . . . N-54  
 lumbar external drainage . . . . . I-5  
 lumbar retractor body . . . . . S-28  
 microsurgical kit . . . . . N-113–N-114  
 nerve root retractor . . . . . S-31, S-101  
 osteotomes . . . . . S-32, S-96  
 periosteal elevators . . . . . S-30  
 PLIF II Kit . . . . . G-121, S-29  
 posterior lumbar interbody fusion kit . . . . . S-25  
 power systems . . . . . G-123, N-48–N-49, N-51–N-52, N-54–N-55

**PRESERVE instrument**  
 lubricant . . . . . G-6, G-45, N-61  
 puka chisel . . . . . S-17, S-25  
 puka chisel handle . . . . . S-26  
 retractor blades . . . . . S-28  
 screw driver . . . . . S-4, S-14  
 self-tapping anterior cervical cancellous  
   bone screws . . . . . S-11  
 single tooth retractor blade . . . . . S-35  
 skull perforator guard . . . . . N-53  
 skull tongs . . . . . N-47, N-161, S-142  
 spanner . . . . . G-131, S-91, S-143  
 spanner gauge . . . . . S-23, S-26  
 spanner wrench . . . . . S-24  
 spinal fusion chisel . . . . . S-17, S-32  
 spinal fusion osteotomes . . . . . S-31, S-97  
 spreader . . . . . S-29  
 square punch . . . . . S-27  
 sterilizing and carrying case . . . . . G-129, S-97  
 sterilizing trays . . . . . G-115  
 sternum saw . . . . . C-72, G-124  
   power systems . . . . . C-72  
 surgical marker . . . . . G-7, G-46, N-60, N-117  
 surgical patties . . . . . N-61, N-122  
 surgical strips . . . . . N-62, N-164  
 tissue retractors . . . . . N-136, S-36  
 towel clamps . . . . . G-2, G-6  
 tubing clamp . . . . . C-27  
 vein stripper . . . . . G-9, G-110  
 vertebra spreader . . . . . S-24, S-39  
 wire cutter . . . . . S-154  
 wire pass drill . . . . . N-55, N-60  
 wire pass drill guard . . . . . N-53

**CODMAN Anterior Cervical Plate**  
**Placement Instruments**  
 bone tap (12mm) . . . . . S-4, S-13  
 bone tap (15mm) . . . . . S-4, S-13  
 CAM tightener assembly . . . . . S-4, S-13  
 drill bit (12mm) . . . . . S-3, S-13  
 drill bit (15mm) . . . . . S-3, S-13  
 drill guide . . . . . S-4, S-14  
 drill guide/plate holder . . . . . S-3, S-13  
 dual angle drill guide . . . . . S-5, S-14  
 forceps plate holder . . . . . S-2, S-11  
 plate contouring device . . . . . S-3, S-10  
 screw driver . . . . . S-4, S-14

# ALPHABETICAL INDEX

**Codman Anterior Cervical Plate System**  
variable depth system . . . . . S-12

**CODMAN Javelin Micro-Knife Handles** . S-93

**CODMAN KERRISON**  
laminectomy rongeurs . . . . . S-139

**CODMAN L-W Gauge** . . . . . S-32

**CODMAN Micro Impactor Set** . . S-66, S-71, S-148

**CODMAN SCHLESINGER**  
cervical laminectomy rongeur . . . . . S-141

**CODMAN Steerable Endoscope**  
Instrument  
ME2 . . . . . N-81  
instruments  
flexible-endoscopic forceps . . . . . N-79  
sterilizing tray . . . . . N-82

**CODMAN Steerable Neuroendoscope** . N-80  
irrigation adaptor/TB adaptor . . . . . N-82  
peel-away catheter introducer . . . . . N-113  
scope holder . . . . . N-78

**CODMAN TI-FRAME** . . . . . S-15

**CODMAN-CONE**  
ring curettes . . . . . S-30

**CODMAN-CUSHING**  
vein retractor . . . . . S-36, S-100

**CODMAN-HARMON**  
chisel . . . . . S-17, S-25

**CODMAN-LEKSELL**  
laminectomy rongeurs . . . . . N-144, S-126

**COLLER**  
hemostatic forceps . . . . . G-12

**COLLIER**  
thoracic clamp . . . . . C-43

**COLLIN**  
tongue seizing forceps . . . . . E-5

**COLLINS**  
radiopaque sternal blades . . . . . C-66  
sternal retractor . . . . . C-66

**CONE**  
biopsy needle . . . . . I-42  
laminectomy retractors . . . . . N-137, S-109  
ring curette . . . . . S-40  
ring curettes . . . . . S-40  
scalp retractor . . . . . G-77, N-137  
ventricular needle . . . . . I-42

**CONE-BUCY**  
suction cannula set . . . . . N-165

**Connectors**  
Accuflo . . . . . I-16, I-39  
HOLTER . . . . . I-31  
intracranial pressure shunt . . . . . I-31

**CONTOUR**  
scalp retractor . . . . . G-77, N-137

**Contractors**  
rib . . . . . C-36, C-63

**CONVERSE**  
skin hook . . . . . E-7

**COOLEY** . . . . . C-47  
acutely curved clamp . . . . . C-31  
anastomosis clamp . . . . . C-29  
aorta clamp . . . . . C-2  
atrial retractor . . . . . C-57  
bulldog clamp . . . . . C-8

**COOLEY – Continued**  
coarctation clamp . . . . . C-17  
graft suction tube . . . . . C-83  
iliac clamp . . . . . C-19  
Mayo-type . . . . . C-73  
multi-purpose clamp . . . . . C-21  
patent ductus clamp . . . . . C-23  
scissors . . . . . C-73  
tissue forceps . . . . . C-47  
vascular clamp . . . . . C-31  
vascular suction tube . . . . . C-83  
ventricular sump . . . . . C-83

**COOLEY-DERRA**  
anastomosis clamp . . . . . C-30

**Cords**  
bipolar . . . . . N-29  
cautery . . . . . N-42, N-92  
cord/tubing set . . . . . N-31

**CORKSCREW**  
dural hook . . . . . N-109

**CORYLLOS**  
rib shears . . . . . C-81

**Cottonoid**  
neuro strips . . . . . N-62, N-164

**Covers**  
burr hole . . . . . I-18

**CRAFOORD**  
coarctation clamp . . . . . C-17

**CRAIG**  
vertebral body biopsy kit . . . . . S-5

**Cranial Fixation** . . . . . N-3, N-45–N-47

**Cranioplastic**  
kit . . . . . N-4, N-58  
roller . . . . . N-4, N-58

**Craniotome**  
air power . . . . . G-123, N-48  
air driver . . . . . N-49  
burr guards . . . . . N-51  
disposable craniotomy kit . . . . . N-50, N-63  
disposable perforator . . . . . N-50, N-63  
dura guard . . . . . N-53  
lubricant . . . . . N-54  
modular attachment . . . . . N-49  
stabilizing handle . . . . . N-54

**Craniotomy kit**  
disposable . . . . . N-50, N-63

**Crank Frame Retractor**  
pronged retractor blades . . . . . S-85, S-111

**Crank Frame Spinal Retractor Set**  
blades . . . . . S-84, S-110

**CRAWFORD-COOLEY**  
tunneler . . . . . C-84

**CRILE** . . . . . C-19, C-59  
cardiovascular . . . . . C-19  
gasserian ganglion knife and  
dissector . . . . . N-117  
hemostatic forceps . . . . . G-13–G-14  
retractor . . . . . G-62

**CRILE-WOOD**  
needle holder . . . . . G-47

**CROCKARD**  
Orbiting Appliers . . . . . N-7

**CRUTCHFIELD**  
drill points . . . . . N-74

**Curettes**  
adenoid . . . . . E-1  
cervical . . . . . S-43, S-83  
microdissectomy . . . . . S-41, S-81  
cup . . . . . S-45, S-75  
ear ring . . . . . E-1  
endometrial biopsy . . . . . O-2  
KARLIN PG Magnum cup . . . . . S-44, S-74  
KARLIN PG MAGNUM ring . . . . . S-46, S-76  
lumbar  
microdissectomy . . . . . S-42, S-82  
micro osseous dissection kit . . . . . G-133, S-95  
microsurgical . . . . . N-56–N-57, N-169  
modified endometrial biopsy . . . . . O-2  
ruptured disc . . . . . S-49  
ring  
spinal . . . . . S-48, S-77  
spinal . . . . . S-47  
spinal fusion . . . . . S-30, S-40, S-49–S-50  
transsphenoidal . . . . . N-56, N-169  
uterine . . . . . O-1–O-2

**CUSHING**  
bipolar forceps . . . . . N-33, N-84  
brain spatula-spoons . . . . . N-161  
burr . . . . . N-70  
decompression retractor . . . . . N-125  
dressing forceps . . . . . N-95  
dural hook . . . . . N-110  
gasserian ganglion hook . . . . . N-110, S-65  
intervertebral disc rongeur . . . . . S-131  
monopolar forceps . . . . . N-43, N-93  
perforator drills . . . . . N-70  
periosteal elevators . . . . . N-75–N-76, S-54–S-55  
pituitary spoons . . . . . N-163  
staphylorrhaphy elevators . . . . . N-75, S-53  
tissue forceps . . . . . G-37, N-99  
vein retractor . . . . . G-62, N-125

**CUSHING-HOPKINS**  
periosteal elevator . . . . . S-55

**Cutter**  
cable . . . . . S-8, S-157

**Cutters**  
wire . . . . . S-154

## D

**D'ERRICO**  
dressing forceps . . . . . N-95  
hypophyseal forceps . . . . . N-102  
lamina chisel . . . . . S-17  
nerve root retractor . . . . . S-105  
perforator drill and enlarging burr . . . . . N-71  
tissue forceps . . . . . N-99  
ventricular needle . . . . . I-43

**DAICOFF**  
vascular and needle pulling forceps . . . . . C-48

**DALE**  
rib rongeur . . . . . C-71, N-143, S-125

**DANDY**  
nerve hook . . . . . N-110  
scalp hemostatic forceps . . . . . G-13, N-98  
trigeminal scissors . . . . . N-155  
ventricular needle . . . . . I-43

# ALPHABETICAL INDEX

**DARLING**  
popliteal retractor . . . . . C-60

**DAVIDSON**  
scapular retractor . . . . . C-57

**DAVIS**  
brain spatulas . . . . . N-162  
monopolar forceps . . . . . N-43, N-93

**DE MARTEL-WOLFSON**  
intestinal anastomosis clamps . . . . . G-23

**DE VILBISS**  
cranial rongeur . . . . . N-141, N-148, S-123

**DEAVER**  
operating scissors . . . . . G-105  
retractor . . . . . G-57–G-58

**DeBAKEY**  
aorta clamp . . . . . C-2  
aortic aneurysm clamp . . . . . C-5  
aortic exclusion clamp . . . . . C-6  
bulldog clamp . . . . . C-9  
coarctation clamp . . . . . C-18  
endarterectomy scissors . . . . . C-76  
multi-purpose clamp . . . . . C-22–C-23  
patent ductus clamp . . . . . C-24  
peripheral vascular clamp . . . . . C-24–C-25  
tangential occlusion clamp . . . . . C-26  
thoracic tissue forceps . . . . . C-47  
vascular clamp . . . . . C-32  
vascular scissors . . . . . C-78  
vascular tissue forceps . . . . . C-49

**DeBAKEY-DIETRICH**  
vascular forceps . . . . . C-49

**DeBAKEY LIDDICOAT**  
vascular forceps . . . . . C-49

**DeBAKEY-SEMB**  
ligature carrying forceps . . . . . C-20, C-41

**DECKER**  
microsurgical forceps . . . . . N-93  
microsurgical scissor . . . . . N-153  
rongeurs . . . . . N-148

**DELABORDE**  
tracheal dilator . . . . . G-5

**DELEE**  
universal retractor . . . . . O-16

**DENNIS**  
intestinal clamp . . . . . G-23

**DERF**  
needle holder . . . . . G-47–G-48

**DERRA**  
anastomosis clamp . . . . . C-32

**DIETRICH**  
aorta clamp . . . . . C-2  
bulldog clamps . . . . . C-10  
circumflex artery scissors . . . . . C-73  
kit . . . . . C-52, G-122  
valve scissors . . . . . C-79

**Dilators**  
common duct . . . . . G-5  
myocardial . . . . . C-37  
tracheal . . . . . G-5  
uterine . . . . . O-3  
vascular . . . . . C-37–C-38

**Dissecting**  
POTTS-SMITH . . . . . C-76

**Dissectors** . . . . . N-67  
annular perforator . . . . . S-52, S-65, S-70, S-146  
disposable . . . . . G-8, G-109  
intima . . . . . C-36  
lumbar microdiscectomy . . . . . S-42, S-82  
micro  
teardrop . . . . . N-69  
micro suction . . . . . G-126  
microsurgical . . . . . N-67, N-116, N-171  
neuro-vascular . . . . . N-67  
neurosurgical . . . . . N-68, N-112, S-58–S-59  
tonsil . . . . . E-2  
transoral . . . . . S-52, S-153  
transphenoidal . . . . . N-67, N-171

**DORSEY**  
dural separator . . . . . N-160  
ventricular cannulas . . . . . I-41

**DOSICK**  
bellows assembly . . . . . C-85  
tunneler . . . . . C-85

**DOYEN**  
abdominal scissors . . . . . G-95  
intestinal clamps . . . . . G-24  
intestinal forceps . . . . . G-23  
rib raspatories . . . . . C-56

**Drainage/Monitoring**  
external drainage leveling device . . . . . I-3

**Dressing Forcep** . . . . . G-35

**Drill Guard**  
wire pass . . . . . N-53

**Drill Kit** . . . . . I-9

**Drills**  
cervical . . . . . S-22  
cranial . . . . . G-126, N-72, N-74  
depth check . . . . . N-73  
hand . . . . . N-71  
perforator . . . . . N-70–N-71  
points . . . . . N-71  
subarachnoid twist . . . . . I-6  
twist . . . . . N-73  
wire pass . . . . . N-55, N-60

**Driver Torque** . . . . . S-8, S-157

**DUKE**  
trocar . . . . . G-140

**DUNCAN**  
endometrial biopsy curette . . . . . O-2

**DUVAL**  
lung grasping forceps . . . . . C-41, G-27

## E

**ECHLIN**  
laminectomy rongeurs . . . . . N-143, S-125

**EDNA**  
towel clamps . . . . . G-2

**EDS II** . . . . . I-2  
QuickLine leveling device . . . . . I-3

**Elevators** . . . . . N-76  
coastal . . . . . C-55  
microsurgical . . . . . N-77  
osteophyte periosteal . . . . . S-23  
periosteal . . . . . N-75–N-76, S-30, S-53–S-55, S-58

**Elevators – Continued**  
PG Magnum COBB  
KARLIN PG Magnum COBB . . . . . S-56, S-78  
rib . . . . . C-82  
septum . . . . . E-2  
spinal . . . . . N-162, S-53  
spine  
orthopedic . . . . . S-57, S-79  
staphylorrhaphy . . . . . N-75, N-77, S-53, S-59

**ELSBERG**  
ventricular cannula . . . . . I-41

**Endarterectomy Set** . . . . . C-38, C-53

**Endoscopes**  
fiberoptic cables . . . . . H-4  
GAAB neuroendoscope system . . . . . N-79

**Endoscopic Instrument Holder** . . . . . G-82

**Endoscopic Shunt Placement**  
slit ventricular catheter . . . . . N-83

**Endoscopy**  
camera/light source  
CODMAN WELCH ALLYN VDX-300  
Illumination & Imaging  
Platform . . . . . N-81  
CODMAN steerable neuroendoscope . . . . . N-80  
Disposable Endoscope  
EPIC MICROVISION Semi-Flexible  
Endoscope Kit . . . . . N-80  
Epic bipolar forceps . . . . . N-82  
flexible endoscopic grasping forceps . . . . . N-79  
GAAB neuroendoscope system . . . . . N-79  
irrigation/TB adaptor for CODMAN  
Steerable neuroendoscope . . . . . N-82  
ME2 . . . . . N-81  
peel-away catheter introducer . . . . . N-113  
rigid endoscope holder . . . . . N-78  
shunt placement  
slit ventricular catheter . . . . . N-83  
steerable endoscope holder . . . . . N-78  
sterilizing tray for CODMAN steerable  
endoscope . . . . . N-82

**Enucleators Transsphenoidal** . . . . . N-170

**EPIC Bipolar Forceps** . . . . . N-82

**EPIC MICROVISION**  
Disposable Endoscope  
EPIC MICROVISION Semi-Flexible  
Endoscope Kit . . . . . N-80

**Epicardial**  
PARSONNET . . . . . C-56

**EPSTEIN**  
spinal fusion curettes . . . . . S-40

**E-SERIES**  
bipolar forceps . . . . . N-33, N-84, O-7  
forceps . . . . . N-108, O-7  
micro-infertility kit . . . . . N-115, O-15  
needle holder . . . . . N-119, O-15  
scissors . . . . . N-158, O-19–O-20

**EVANS**  
tissue forceps . . . . . G-38

**EWALD-HUDSON**  
dressing forceps . . . . . G-34  
tissue forceps . . . . . G-38

# ALPHABETICAL INDEX

**External Drainage** . . . . . I-5  
EDS II . . . . . I-3  
GHAJAR GUIDE . . . . . I-8  
lumbar . . . . . I-5  
monitoring line . . . . . I-4  
QuickLine leveling device . . . . . I-3  
system . . . . . I-2  
ventricular set . . . . . I-4  
**External Drainage System** . . . . . I-2  
**Extractor**  
fetal head . . . . . O-4

## F

**FANSLER**  
proctoscope . . . . . G-55  
**FARRELL**  
applicator . . . . . E-1  
**FAVALORO**  
coronary scissors . . . . . C-74  
**FAVALORO-MORSE**  
sternal retractor . . . . . C-67  
**FERGUSON**  
abdominal scissors . . . . . G-95  
**FERRIS SMITH**  
intervertebral disc rongeur . . . . . S-132  
tissue forceps . . . . . N-100  
**FERRIS SMITH-KERRISON**  
laminectomy rongeurs . . . . . S-138  
**Fiberoptic**  
BOOKWALTER light . . . . . G-82  
cable case . . . . . G-133  
cable connector . . . . . H-8  
headlight accessories kit . . . . . H-5  
headlights . . . . . H-5  
lightsource . . . . . H-5  
lightsource lamps . . . . . H-9  
retractor . . . . . H-6–H-8  
suction tube . . . . . H-8  
**Filter**  
in-line shunt . . . . . I-31  
**FINE**  
vascular scissors . . . . . C-78  
**FINOCHIETTO**  
infant rib retractor . . . . . C-62  
infant rib retractor-contractor . . . . . C-63  
rib retractor . . . . . C-62  
**FISHER**  
tonsil knife . . . . . E-8  
**Fixation Pins**  
CODMAN ACP temporary  
fixation pins . . . . . S-11  
**Flex Bar**  
horizontal . . . . . G-87  
**Flexbar Arms** . . . . . N-133  
**FLEXIBLE-ENDOSCOPIC BIOPSY**  
**FORCEPS** . . . . . N-79  
**Floorstand** . . . . . H-10  
**Foot Pedal**  
CMC III foot pedal/irrigation  
cable . . . . . N-32

**Forceps** . . . . . N-100, N-108, O-7  
artery . . . . . C-39  
bipolar N-33–N-39, N-83–N-88, N-116, O-7  
bipolar and suction . . . . . N-34, N-84  
bipolar cutting . . . . . N-35, N-85  
bipolar irrigating . . . . . N-41, N-91  
bipolar irrigating loop . . . . . N-40, N-90  
bone cutting . . . . . N-141, N-145–N-147, S-124,  
S-127–S-128  
brain tumor . . . . . N-101, N-104  
cervical grasping . . . . . O-4  
clip applying and removing . . . . . G-4  
clip applying, aneurysm . . . . . N-16, N-20–N-21  
clip removing . . . . . G-4  
coaptation . . . . . N-33, N-83  
coronary . . . . . C-39  
coronary artery . . . . . C-52, G-122  
crile . . . . . G-14  
cup . . . . . N-105  
delicate . . . . . G-15, G-18  
dissectomy . . . . . N-102, S-52, S-118  
disposal scalp clip removal . . . . . N-65, N-152  
dressing . . . . . E-5, G-33–G-35, G-37,  
N-94–N-97, N-105  
dural . . . . . N-105  
ear . . . . . E-3  
endotracheal catheter . . . . . E-3  
eye dressing . . . . . E-4  
fixation . . . . . E-4  
flex-endo grasping forceps . . . . . N-79  
gall duct . . . . . G-10–G-11  
gallbladder . . . . . G-10–G-11  
hemostatic . . . . . C-40, G-11–G-22, N-98  
scalp . . . . . G-13, N-98  
holder . . . . . G-56, G-115–G-116  
hypophyseal . . . . . N-101–N-102  
hysterectomy . . . . . O-5–O-7  
I.M.A. . . . . C-39  
intestinal . . . . . C-40, G-22–G-24, G-25,  
G-35, G-38  
intra-thoracic . . . . . C-46  
iris . . . . . E-4  
irrigating stylets  
bipolar irrigating stylets . . . . . N-41, N-91  
jewelers . . . . . N-97  
JULIAN . . . . . C-44  
kidney stone . . . . . G-26  
ligament grasping . . . . . S-152  
ligamenta flava . . . . . N-103, S-60  
ligature carrying . . . . . C-20, C-41  
lung grasping . . . . . C-41, G-27  
micro cup . . . . . N-106  
micro cup pituitary . . . . . N-107  
micro tying . . . . . N-109  
microsurgical . . . . . N-33–N-39, N-43,  
N-83–N-88, N-93, N-96–N-97,  
N-103–N-109, O-7  
monopolar . . . . . N-43, N-93  
mosquito . . . . . G-16, G-19  
neurovascular . . . . . N-39, N-88  
obstetrical . . . . . O-12–O-13  
odontoid peg grasping . . . . . S-152  
ligament grasping . . . . . N-114, S-149

**Forceps – Continued**  
placenta . . . . . O-13  
platform  
neuro-vascular . . . . . N-104  
scalp . . . . . N-98  
scalp clip applying . . . . . N-65, N-151–N-152  
septum cutting . . . . . E-4  
splinter . . . . . G-32–G-33  
sponge . . . . . G-28  
suction  
neurosurgical . . . . . N-167  
suction tube and tip holding . . . . . G-29  
suture tag . . . . . C-42  
temporary clip applying . . . . . N-22  
temporary vessel clamp applying . . . . . N-23  
tendon pulling . . . . . N-101  
thoracic . . . . . C-42–C-47  
thumb . . . . . C-39, C-42–C-49, E-3–E-6,  
G-33–G-40, N-94–N-97, N-99–N-103  
thyroid tenaculum . . . . . G-33  
tissue . . . . . C-47–C-48, E-5, G-29–G-32,  
G-35–G-41, N-99–N-101  
tissue grasping . . . . . G-31, N-94, N-102  
tongue seizing . . . . . E-5  
tonsil seizing . . . . . E-5  
transsphenoidal . . . . . N-34, N-84  
trigeminal bipolar . . . . . N-33, N-83  
tubing holding . . . . . G-29  
tumor . . . . . N-104  
tying . . . . . N-109  
uterine artery . . . . . O-8  
uterine biopsy . . . . . O-8–O-9  
uterine dressing . . . . . O-10  
uterine polyp . . . . . O-10  
uterine tenaculum . . . . . O-10  
uterine vulsellum . . . . . O-11  
utility . . . . . E-6  
vascular . . . . . C-48–C-49  
vascular and needle pulling . . . . . C-48  
vessel . . . . . C-49  
watchmaker . . . . . N-103

**FORD HOSPITAL**  
ventricular cannula . . . . . I-41  
**Fork**  
transsphenoidal . . . . . N-171  
**FRAZIER**  
dural hook . . . . . N-110  
dural scissors . . . . . N-154  
dural separator . . . . . N-160  
monopolar cautery cord . . . . . N-42, N-92  
suction tubes . . . . . N-165–N-166  
ventricular needle . . . . . I-44  
**FREER**  
septum elevator . . . . . E-2  
**FULTON**  
laminectomy rongeurs . . . . . N-144, S-126

## G

**GAAB Neuroendoscope System** . . . . . N-79  
instrument  
EPIC Bipolar Forceps . . . . . N-82  
rigid endoscope holder . . . . . N-78

# ALPHABETICAL INDEX

**Gags**  
mouth . . . . . E-6

**GARRETT**  
peripheral vascular retractor . . . . . C-59  
vascular dilators . . . . . C-37–C-38

**Gastrointestinal**  
clamp . . . . . G-1

**Gauges**  
length-width  
interspace . . . . . S-32  
spanner . . . . . S-23, S-26

**Gauze**  
titanium . . . . . N-5, N-59, N-121

**GAYLER**  
uterine biopsy forceps . . . . . O-8

**GELPI**  
perineal retractor . . . . . G-78

**GEMINI**  
hemostatic forceps . . . . . G-15

**GERALD**  
bipolar forceps . . . . . N-34, N-84  
dressing forceps . . . . . N-96  
tissue forceps . . . . . N-100

**GHAJAR GUIDE**  
ventriculostomy kit . . . . . I-8

**GIGLI**  
saw handles . . . . . N-149  
wire saws . . . . . N-150

**GILLES**  
skin hook . . . . . E-7

**GLASSMAN** . . . . . G-1

**GLOVER**  
auricular appendage clamp . . . . . C-6  
bulldog clamp . . . . . C-10–C-11  
coarctation clamp . . . . . C-18  
curved clamps . . . . . C-33  
patent ductus clamp . . . . . C-24  
spoon-shaped clamp . . . . . C-34

**GOLET**  
retractor . . . . . G-62

**Gouges**  
bone . . . . . S-61–S-62  
spinal . . . . . S-60

**Graft Drivers** . . . . . S-63, S-64, S-68

**GRAHAM**  
nerve hook . . . . . N-111

**GRAVES**  
vaginal specula . . . . . O-22–O-23

**GREENBERG**  
floating secondary bar . . . . . N-132  
instrument holders . . . . . N-133  
maxi-vise adaptor . . . . . N-132  
retractor case . . . . . G-125, N-131  
short coupler . . . . . N-131  
short retractor arm . . . . . N-132  
tapered blades . . . . . N-131  
universal retractor . . . . . N-128–N-130

**GREENE**  
thyroid retractor . . . . . G-63  
tubing holding forceps . . . . . G-29

**GREENWOOD**  
bipolar and suction forceps . . . . . N-34, N-84

**GREGORY**  
bulldog clamp . . . . . C-11  
stay suture clamp . . . . . C-42

**Guards**  
cervical drill . . . . . S-22  
drill burr . . . . . N-51  
dura . . . . . N-53  
skull perforator . . . . . N-53

**Guides**  
drill . . . . . N-74  
sub-laminar wire  
cervical . . . . . S-9, S-64, S-158  
wire saw . . . . . N-149–N-150

**GUTHRIE**  
eye fixation hook . . . . . E-6

## H

**HAIGHT-FINOCCHIETTO**  
rib retractor . . . . . C-63

**HAKIM Precision Valve** . . . . . I-19–I-24  
tube passer . . . . . I-23

**HAKIM Programmable Valve** . . . . . I-24

**HALLE**  
nasal speculum . . . . . E-11

**HALSEY**  
needle holder . . . . . G-48

**HALSTED**  
hemostatic forceps . . . . . G-16–G-17  
mosquito forceps . . . . . G-16

**Hammers** . . . . . S-94  
ball pean . . . . . S-27, S-33, S-93  
percussion . . . . . N-123

**Handles**  
craniotome stabilizing . . . . . N-54  
gigli saw . . . . . N-149  
knife . . . . . G-41  
microsurgical knife . . . . . N-66, N-171  
puka chisel . . . . . S-26

**HANKS**  
uterine dilators . . . . . O-3

**HARDY**  
bipolar forceps . . . . . N-34, N-84  
curettes . . . . . N-56, N-169  
dressing forceps . . . . . N-96  
enucleators . . . . . N-170  
fork . . . . . N-171  
instrument case . . . . . G-125, N-172  
knife handle . . . . . N-66, N-171  
lip retractor . . . . . N-173  
microdissector . . . . . N-67, N-171  
nasal bivalve speculum . . . . . N-173  
suction tubes . . . . . N-166, N-173  
transsphenoidal mirror . . . . . N-171

**HARKEN**  
rib retractor . . . . . C-64

**HARRINGTON**  
splanchnic retractor . . . . . G-59  
thoracic clamp forceps . . . . . C-43

**HARRINGTON-MIXTER**  
thoracic clamp . . . . . C-44

**HARTMANN**  
ear forceps . . . . . E-3  
tonsil punches . . . . . E-8

**Headlights**  
fiberoptic . . . . . H-5  
accessories kit . . . . . H-5

**HEANEY**  
endometrial biopsy curette . . . . . O-2  
hysterectomy forceps . . . . . O-5  
hysterectomy retractor . . . . . G-68, O-16  
needle holder . . . . . G-48–G-49

**HEANEY-BALLANTINE**  
hysterectomy forceps . . . . . O-5

**HEANEY-KANTER**  
hysterectomy forceps . . . . . O-6

**HEANEY-REZAK**  
hysterectomy forceps . . . . . O-6

**HEANEY-SIMON**  
hysterectomy retractor . . . . . G-68, O-16

**HEGAR**  
uterine dilator . . . . . O-3

**HEGENBARTH**  
wound clip applying and removing  
forceps . . . . . G-4

**HEISS**  
artery forceps . . . . . C-39

**HENLY**  
modified vascular clamp . . . . . C-34

**HIBBS**  
mallet . . . . . S-94  
retractor . . . . . S-105

**HILL-FERGUSON**  
rectal retractor . . . . . G-68

**HIMMELSTEIN**  
sternal retractor . . . . . C-67

**HOEN**  
dressing forceps . . . . . N-96  
dural separators . . . . . N-160  
grasping forceps . . . . . N-94, N-102  
intervertebral disc rongeur . . . . . S-132  
nerve hook . . . . . N-111  
periosteal elevators . . . . . S-55  
scalp hemostatic forcep . . . . . N-98  
tissue forceps . . . . . N-100

**HOFFMAN**  
shunt passer . . . . . I-39

**Holders**  
forceps . . . . . G-56, G-115–G-116  
instrument . . . . . G-56–G-57, G-116  
vein . . . . . C-50

**HOLSHER**  
nerve root retractor . . . . . S-106

**HOLTER**  
catheters . . . . . I-27–I-28  
connector . . . . . I-31  
distal catheter passer . . . . . I-34–I-35, I-38  
distal peritoneal catheters . . . . . I-28  
external drainage system . . . . . I-2  
hydrocephalus shunt systems . . . . . I-26  
in-line shunt filter . . . . . I-31  
lumboperitoneal catheter . . . . . I-34, I-40  
reservoir . . . . . I-32  
ventricular catheter . . . . . I-25, I-29  
ventriculostomy reservoirs . . . . . I-32



# ALPHABETICAL INDEX

## Hook

crile ..... C-59

## Hooks

dissecting ..... N-110  
dural ..... N-109–N-110, S-32, S-65  
eye fixation ..... E-6  
ganglion ..... N-110, S-65  
iris ..... E-6  
microsurgical ..... N-111  
nasal ..... E-7  
nerve ..... N-110–N-112  
    spine ..... S-41–S-42, S-81–S-82  
neurosurgical ..... N-111  
retractor ..... S-113, S-116  
skin ..... E-7, N-112  
trachea ..... N-112

## HORGAN

center blade ..... G-76

## Hose

coaxial air ..... N-51, N-54

## HUANG

vein holder ..... C-50

## HUDSON

brace ..... N-72  
burr ..... N-73  
cerebellar extension ..... N-72

## HURD

tonsil dissector and pillar retractor ..... E-2

## Hydrocephalus Shunt System

..... I-14, I-19–I-24

HAKIM tube passer ..... I-23

## Hydrocephalus Shunt Systems

..... I-20  
accu-flo connectors ..... I-16, I-39  
HOLTER catheter-reservoir ..... I-30  
HOLTER connector ..... I-31  
HOLTER reservoirs ..... I-33

## I

## I.M.A. Kit

..... C-52  
diamond knife ..... C-50, N-117  
epicardial retractors ..... C-69, G-79  
forceps ..... C-39  
instrument case ..... G-135  
scissors ..... C-75

## I.V. Pole

..... N-32

## ICP EXPRESS

ICP Express cable ..... I-12

## ICP Monitoring

ICP Express ..... I-12  
ICP Express cable ..... I-12  
interface cables ..... I-13  
MICROSENSOR ..... I-11  
MicroSensor basic kit ..... I-10  
MICROSENSOR bolt kit ..... I-10–I-11

## IMA Retractor Kit

BOOKWALTER ..... C-70, G-83, G-119

## Impactor

bone graft ..... S-32

## Impactors Spine

30° ..... S-65, S-71, S-147  
central canal impactor ..... S-70, S-146  
lateral gutter ..... S-70, S-146  
lumbar set ..... G-132, S-69, S-145  
micro set  
    central canal ..... S-66, S-71, S-148

## Implants

anterior cervical plate screws ..... S-2, S-11  
bioplate neurosurgery fixation  
    system ..... N-2, N-44  
CODMAN ACP variable depth  
    system ..... S-12  
CODMAN anterior cervical plate  
    placement instruments  
    bone tap (12mm) ..... S-4, S-13  
    bone tap (15mm) ..... S-4, S-13  
    CAM tightener assembly ..... S-4, S-13  
    drill bit (12mm) ..... S-3, S-13  
    drill bit (15mm) ..... S-3, S-13  
    drill guide ..... S-4, S-14  
    drill guide/plate holder ..... S-3, S-13  
    dual angle drill guide ..... S-5, S-14  
    forceps plate holder ..... S-2, S-11  
    plate contouring device ..... S-3, S-10  
    screw driver ..... S-4, S-14  
CODMAN anterior cervical plate  
    system ..... S-1, S-16  
CODMAN anterior cervical plates ..... S-2, S-10  
CODMAN TI-FRAME ..... S-15  
self-tapping anterior cervical  
    cancellous bone screws ..... S-11

## INGE

lamina spreader ..... S-144

## Instrument

rack ..... G-57, G-116

## Interface Cables

..... I-13

## Interface Control Unit

cables ..... I-13

## Internal Mammary Artery Kit

..... C-52

## Internal Mammary Artery

Retractor ..... C-70, G-83, G-119  
Intracranial Pressure ..... I-2, I-7, I-14–I-17,  
I-20–I-23, I-25–I-26, I-28–I-29, I-31–I-40  
connectors ..... I-16, I-39  
external drainage ..... I-3  
external drainage system ..... I-2  
HAKIM tube passer ..... I-23  
HOLTER connector ..... I-31  
HOLTER reservoirs ..... I-33  
shunts ..... I-19, I-24

## Introducers

peel-away catheter introducer ..... N-113  
UNI-SHUNT ..... I-37

## IOWA UNIVERSITY

periosteal elevator ..... S-55

## IRIS

bipolar forceps ..... N-35, N-85  
scissors ..... G-104  
tissue forceps ..... E-5

## Irrigating

bipolar forceps ..... N-41, N-91

## Irrigation Adaptor

..... N-82

## Irrigation Cable

CMC III foot pedal/irrigation  
    cable ..... N-32

## Irrigation Module

bipolar forceps ..... N-40, N-90  
cord/tubing set ..... N-31  
forceps stylets ..... N-41, N-91  
I.V. pole ..... N-32  
irrigating forceps ..... N-40, N-90  
module ..... N-31

## ISRAEL

retractor ..... G-63

## J

## JACKSON

tunneler ..... C-85  
vaginal retractor ..... G-69, O-17

## JACOBS

uterine vulsellum forceps ..... O-11

## JACOBSON

bulldog clamp ..... C-11  
needle holders ..... C-54

## JAMES

lumbar-peritoneal catheter ..... I-40

## JAMISON

scissors ..... C-77

## JANSEN

dressing forceps ..... E-5, N-96  
mastoid retractor ..... G-78, N-138  
monopolar forceps ..... N-43, N-93  
scalp retractor ..... G-78, N-137

## JANSEN-MIDDLETON

septum cutting forceps ..... E-4

## Javelin Micro-Knife Handles

..... S-93

## JAVID

..... C-15

## JENNINGS

mouth gag ..... E-6

## Jewelers

bipolar forceps ..... N-35, N-85  
forceps ..... N-97

## JOHNS HOPKINS

bulldog clamp ..... C-12  
gallbladder forceps ..... G-10

## JONES

I.M.A. diamond knife ..... C-50, N-117  
I.M.A. epicardial retractors ..... C-69, G-79  
I.M.A. forceps ..... C-39  
I.M.A. instrument case ..... G-135  
I.M.A. scissors ..... C-75  
needle holders ..... C-54  
thoracic clamp ..... C-44  
towel clamp ..... G-2

## JORGENSON

dissecting scissors ..... C-76

## JOSEPH

nasal hooks ..... E-7  
periosteal raspatory ..... E-8

## JULIAN

needle holder ..... G-49

# ALPHABETICAL INDEX

## K

**KARLIN**  
chisels, MAGNUM . . . . . S-18, S-73  
crank frame retractor . . . . . S-84, S-110  
curettes  
  cervical . . . . . S-43, S-83  
elevators, MAGNUM . . . . . S-57, S-79  
MAGNUM mallets . . . . . S-80, S-94  
micro knife handle  
  micro knife blades . . . . . S-72, S-93  
PG Magnum COBB elevators . . . . . S-56, S-78  
PG MAGNUM curettes . . . . . S-46, S-76  
PG Magnum curettes . . . . . S-44, S-74  
pronged blades . . . . . S-85, S-111  
XL MAGNUM cup curettes . . . . . S-45, S-75  
XL MAGNUM ring curettes . . . . . S-48, S-77  
**KARLIN Cervical** . . . . . S-43, S-83  
**KARLIN Crank Frame Retractor**  
  pronged retractor blades . . . . . S-85, S-111  
**KARP**  
  aortic punches . . . . . C-55  
**KAY**  
  aorta clamp . . . . . C-3  
**KELLY**  
  abdominal retractor . . . . . G-59–G-60  
  hemostatic forceps . . . . . G-17  
  placenta forceps . . . . . O-13  
**KERRISON**  
  cervical rongeurs . . . . . S-137  
  lumbar rongeurs . . . . . S-140  
**KEY**  
  periosteal elevators . . . . . S-58  
**KIELLAND**  
  obstetrical forceps . . . . . O-12  
**KILLIAN**  
  septum specula . . . . . E-11  
**KIMPTON**  
  vein spreader . . . . . C-82  
**KIRKLIN**  
  atrial retractor . . . . . C-58  
**KIRSCHNER**  
  wire cutter . . . . . S-154  
**Kit**  
  bioplate neurosurgery fixation  
  system . . . . . N-2, N-44  
  CODMAN anterior cervical  
  plate . . . . . S-1, S-16  
  CODMAN anterior cervical plate  
  placement instruments  
  bone tap (12mm) . . . . . S-4, S-13  
  bone tap (15mm) . . . . . S-4, S-13  
  CAM tightener assembly . . . . . S-4, S-13  
  drill bit (12mm) . . . . . S-3, S-13  
  drill bit (15mm) . . . . . S-3, S-13  
  drill guide . . . . . S-4, S-14  
  drill guide/plate holder . . . . . S-3, S-13  
  dual angle drill guide . . . . . S-5, S-14  
  forceps plate holder . . . . . S-2, S-11  
  plate contouring device . . . . . S-3, S-10  
  screw driver . . . . . S-4, S-14  
  micro osseous dissection . . . . . G-133, S-95  
**Kits**  
  BOOKWALTER retractors . . . . . G-87

**KNAPP**  
  iris scissors . . . . . E-9, G-105  
**Knife**  
  arachnoid . . . . . N-117  
  cervical microdissectomy . . . . . S-41, S-81  
  gasserian ganglion . . . . . N-117  
  handles, microsurgical  
  transsphenoidal . . . . . N-66, N-171  
  I.M.A. diamond . . . . . C-50, N-117  
  micro . . . . . S-72, S-93  
  microsurgical . . . . . N-117  
  nasal . . . . . E-7  
  sternal . . . . . C-50  
  tonsil . . . . . E-8  
**KNIGHT**  
  nasal scissors . . . . . E-9  
**Knives**  
  CODMAN Javelin micro-knife handles . . . . . S-93  
**KOCHER**  
  hemostatic forceps . . . . . G-17–G-18  
  intestinal forceps . . . . . G-24

## L

**LAHEY**  
  delicate scissors . . . . . G-98  
  gall duct forceps . . . . . G-10  
  hemostatic forceps . . . . . G-18  
  thyroid retractor . . . . . G-63  
  thyroid tenaculum forceps . . . . . G-33  
**LAHEY CLINIC**  
  dural hook . . . . . N-110  
**LAMBERT-KAY**  
  aorta clamp . . . . . C-3  
**LANGENBECK**  
  periosteal elevators . . . . . N-76, S-58  
  retractor . . . . . G-63  
**LAUFE**  
  uterine polyp forceps . . . . . O-10  
**LAWRIE**  
  modified circumflex scissors . . . . . C-73  
**LEBSCHKE**  
  sternal knife . . . . . C-50  
**LEES**  
  bronchus clamp . . . . . C-7  
  right angle clamp . . . . . C-34  
**LELAND JONES**  
  peripheral vascular clamp . . . . . C-25  
**LEMMON**  
  intima dissectors . . . . . C-36  
  sternal approximator . . . . . C-1  
**LEMPERT**  
  rongeur . . . . . N-141, S-123  
**LEROY**  
  scalp clips . . . . . N-64, N-151  
  scalp clip applying forceps . . . . . N-65, N-151  
**LEROY-RANEY**  
  scalp clips . . . . . N-64, N-151  
**LIDICOAT**  
  aortic valve retractor . . . . . C-58  
**Light Source**  
  camera/light source  
  CODMAN WELCH ALLYN VDX-300  
  Illumination & Imaging Platform . . . . . N-81

**Lightsource**  
  fiberoptic . . . . . H-5  
**LISTER**  
  bandage scissors . . . . . G-96  
**LISTON**  
  bone cutting forceps . . . . . N-141, S-124  
**LITTAUER**  
  stitch scissors . . . . . G-106  
**LITWAK**  
  mitral valve scissors . . . . . C-80  
**LOCKWOOD-ALLIS**  
  tissue forceps . . . . . G-31  
**LORE**  
  suction tube and tip holding forceps . . . . . G-29  
**LOVE**  
  nerve root retractors . . . . . S-106  
**LOVE-ADSON**  
  periosteal elevator . . . . . S-58  
**LOVE-GRUENWALD**  
  intervertebral disc rongeur . . . . . S-133  
**Lubricant** . . . . . N-54  
  instrument . . . . . G-6, G-45, N-61  
**LUCAE**  
  ear forceps . . . . . E-3  
**LUER**  
  rongeur . . . . . N-142, S-124  
**Luer Lock** . . . . . I-37  
**LUIKART**  
  obstetrical forceps . . . . . O-12  
**Lumbar**  
  Drainager . . . . . I-5  
  external drainage . . . . . I-5  
**Lumbar Fusion**  
  posterior . . . . . S-25  
**Lumbar Impaction Set** . . . . . G-132, S-69, S-145

## M

**M.G.H.**  
  uterine vulsellum forceps . . . . . O-11  
**MAGILL**  
  endotracheal catheter introducing  
  forceps . . . . . E-3  
**MAGNAFREE** G-14, G-28, G-35–G-36, G-41,  
  G-49, G-98, G-103, N-66, N-76, N-100  
**MAGNUM**  
  KARLIN mallets . . . . . S-80, S-94  
**Magnum Elevators**  
  KARLIN PG . . . . . S-56, S-78  
**MALIS**  
  bayonet forceps . . . . . N-103  
  bipolar cutting forceps . . . . . N-35, N-85  
  bipolar forceps . . . . . N-35–N-37, N-85–N-86  
  bipolar irrigating forceps . . . . . N-40, N-90  
  brain retractor kit . . . . . N-138  
  cerebellar retractor . . . . . N-139  
  CMC-III bipolar cutter and  
  coagulator . . . . . N-24, N-27  
  CMC-III pneumatic footpedal . . . . . N-26  
  CMC-III remote control . . . . . N-25–N-26, N-30  
  cup forceps . . . . . N-105  
  curette . . . . . N-56  
  dissector . . . . . N-67  
  elevator . . . . . N-77  
  forceps . . . . . N-108

# ALPHABETICAL INDEX

## MALIS – Continued

integrated tube/cord set . . . . . N-31  
irrigating forceps stylets . . . . . N-41, N-91  
irrigation I.V. pole . . . . . N-32  
irrigation module . . . . . N-31  
ligature passer . . . . . N-122  
needle holder . . . . . N-118, N-120  
nerve hooks . . . . . N-111  
neurological scissors . . . . . N-155  
scissors . . . . . N-156, N-158  
vessel supporter . . . . . N-174

## MALIS-FRAZIER

suction tube . . . . . N-167

## MALIS-JENSEN

bipolar forceps . . . . . N-36, N-86

## Mallets

KARLIN MAGNUM mallets . . . . . S-80, S-94

## Markers

surgical pens . . . . . G-7, G-46, N-60, N-117

## MARKHAM-MEYERDING

hemilaminectomy retractor . . . . . S-112

## MARTIN

tissue forceps . . . . . G-38

## MASON

suction tube . . . . . N-167

## MASTERS

intestinal clamps . . . . . G-25

## MASTERSON

hysterectomy forceps . . . . . O-6  
pelvic clamp . . . . . O-8

## MASTERS-SCHWARTZ

liver clamp . . . . . G-27

## MATHEWS

hand drill . . . . . N-71

## MATHIEU

retractor . . . . . G-63

## Mats

flexible silicone . . . . . G-115, G-133

## MATSON

rib stripper and elevator . . . . . C-82

## MATTOX

aorta clamp . . . . . C-3

## MATTOX-POTTS

scissors . . . . . C-79

## MAYO

common duct scoop . . . . . G-108  
COOLEY . . . . . C-73  
dissecting scissors . . . . . G-99–G-100  
kidney clamp . . . . . G-26  
scissors . . . . . G-98–G-99

## MAYO-HEGAR

needle holder . . . . . G-49–G-50

## MAYO-NOBLE

dissecting scissors . . . . . G-100

## MAYO-RUSSIAN

tissue forceps . . . . . G-38

## McBURNEY

thyroid retractor . . . . . G-64

## McFADDEN

VARI-ANGLE aneurysm  
clip trays . . . . . N-6

## McFADDEN Vari-Angle

aneurysm clip . . . . . N-7–N-12  
clip applicator . . . . . N-5  
clip tray . . . . . N-6

## McKENZIE

enlarging burr . . . . . N-71  
perforator drill . . . . . N-71

## McLANE-LUIKART

obstetrical forceps . . . . . O-12

## McLANE-TUCKER

obstetrical forceps . . . . . O-13

## ME2 (Micro Endoscopic Electrode)

. . . . . N-81

## MEEKER

intestinal forceps . . . . . C-40

## MEIGS

uterine curette . . . . . O-1

## Meniscus

clamp . . . . . G-1

## Mesh

titanium . . . . . N-5, N-59, N-121

## METHODIST

vascular suction tube . . . . . C-83

## METZENBAUM

delicate scissors . . . . . G-98  
dissecting scissors . . . . . G-101–G-103  
scissors . . . . . G-102

## MEYERDING

finger retractor . . . . . G-64  
laminectomy retractor . . . . . S-100, S-112  
retractor . . . . . G-64

## MICHEL

wound clip applying and removing  
forceps . . . . . G-4  
wound clip removing forceps . . . . . G-4  
wound clips . . . . . G-3

## Micro

needle holder . . . . . N-120–N-121

## Micro Osseous Dissection Kit

. . . . . G-133, S-95

## Micro Spondylophyte Impactor

lateral . . . . . S-66, S-72, S-148  
offset . . . . . S-66, S-72, S-148

## Microdissectomy

cervical . . . . . S-43, S-83

## Micro-Infertility

kit . . . . . N-115, O-15

## MICROSECT CURETTE KIT

. . . . . S-47

## MICROSENSOR

basic kit . . . . . I-10  
bolt kit . . . . . I-10–I-11  
ICP Express . . . . . I-12  
Microsurgical . . . . . N-67  
kit . . . . . N-113–N-114

## MICROVASC

alm retractor . . . . . N-139  
needle holder . . . . . N-120  
scissors . . . . . N-159  
STA-MCA kit . . . . . N-115  
sterilizing case . . . . . G-127  
tying forceps . . . . . N-109  
Microvascular Kit . . . . . N-115

## MILLET

neurological test instrument . . . . . N-123

## MILLIGAN

dissector . . . . . N-68, S-58

## Mirrors

transsphenoidal . . . . . N-171

## MISKIMON

cerebellar retractor . . . . . N-139

## MIXTER

gallbladder forceps . . . . . G-10  
hemostatic forceps . . . . . G-18  
operating scissors . . . . . G-105, N-155  
thoracic clamp forceps . . . . . C-45  
ventricular needle . . . . . I-43

## Monitoring

. . . . . I-1

## Monitoring Line

. . . . . I-4

## Monopolar Electrode

ME2 . . . . . N-81

## MORRIS

aorta clamp . . . . . C-4

## MORSE

sternal retractor . . . . . C-68

## MOYNIHAN

intestinal forceps . . . . . G-11

## MRI Adson Tissue Forcep

. . . . . G-36

## MRI Crile Forcep

delicate . . . . . G-14

## MRI Dressing Forcep

. . . . . G-35

## MRI Elevator

. . . . . N-76

## MRI Gerald Tissue Forcep

. . . . . N-100

## MRI Langenbeck Elevators

. . . . . N-76

## MRI Mayo Scissor

. . . . . G-98

## MRI Mayo-Hegar Needle Holder

. . . . . G-49

## MRI Metzenbaum Scissor

. . . . . G-103

## MRI Penfield Dissectors

. . . . . N-66

## MRI Spatula

. . . . . N-76

## MRI Sponge Forcep

. . . . . G-28

## MRI Tissue Forcep

. . . . . G-41

## MRI Woodson

. . . . . N-76

## MURLESS

fetal head extractor . . . . . O-4

## MURPHY

retractor . . . . . C-58

## N

### Needle Holder

Mayo-Hegar . . . . . G-49

### Needle holder/forceps

. . . . . C-54

### Needle Holder/Wire Twister

. . . . . G-53

### Needle holders

. . . . . E-8, G-46–G-54, N-116,

N-119, O-15

I.M.A. . . . . C-54

IMA

microsurgical . . . . . C-54

microsurgical . . . . . N-118–N-121, O-15

microvascular . . . . . G-50

neuro-vascular . . . . . N-119

wire holding . . . . . G-51

### Needle Nose

pliers . . . . . G-55

### Needleholder

WEBSTER . . . . . G-54

### Needles

biopsy . . . . . I-42

heparin flushing . . . . . C-54

lumbar-peritoneal catheter . . . . . I-40

microsurgical . . . . . N-70, N-118

ventricular . . . . . I-42–I-44

### NELSON

scissors . . . . . C-76, G-104

# ALPHABETICAL INDEX

**Neuro Monitoring** . . . . . I-1  
**Neuroendoscopy**  
shunt placement  
slit ventricular catheter . . . . . N-83  
**NEUROTREND** . . . . . I-1  
**Neuro-Vascular Instruments** . . . . . N-116  
bipolar forceps . . . . . N-39, N-88  
dissectors . . . . . N-67  
forceps . . . . . N-104  
needle holder . . . . . N-119  
scissors . . . . . N-157  
**NEW**  
suture scissors . . . . . G-106  
**Non-Magnetic** . . . . . N-76  
**Non-Magnetic Crile Forcep** . . . . . G-14  
**Non-Magnetic Dressing Forcep** . . . . . G-35  
**Non-Magnetic Langenbeck Elevators** . . . . . N-76  
**Non-Magnetic Mayo-Hegar** . . . . . G-49  
**Non-Magnetic Penfield Dissectors** . . . . . N-66  
**Non-Magnetic Scissor** . . . . . G-103  
**Non-Magnetic Sponge Forcep** . . . . . G-28  
**Non-Magnetic Tissue Forcep** . . . . . N-100  
**NOON**  
A-V fistula clamp . . . . . C-7  
A-V fistula kit . . . . . C-53, G-128  
A-V fistula tunneler . . . . . C-86  
**NUGENT**  
utility forceps . . . . . E-6

## O

**O'SULLIVAN-O'CONNOR**  
abdominal retractor . . . . . G-76  
**OCHSNER**  
aorta clamp . . . . . C-4  
gallbladder trocars . . . . . G-140  
vascular retractor . . . . . C-59  
wire twister . . . . . C-86  
**OLDBERG**  
intervertebral disc rongeur . . . . . S-133  
**OLIVECRONA-GIGLI**  
wire saw . . . . . N-150  
**OLLIER**  
retractor . . . . . G-65  
**OLSON-HEGAR**  
needle holder and scissors . . . . . G-50  
**Orthopaedic**  
meniscus . . . . . G-1  
pliers . . . . . G-54-G-55  
retractors . . . . . G-70  
vice grips . . . . . G-141  
**Osseous Dissection Kit, Micro** . . . . . G-133, S-95  
**Osteotomes** . . . . . S-96, S-98  
spinal fusion . . . . . S-31-S-32, S-97  
stiletto . . . . . G-130, S-90, S-99

## P

**PACE**  
ventricular needle . . . . . I-43

**PACIFICO**  
sternal retractor . . . . . C-68  
suction tube . . . . . C-83  
**PARKER**  
retractor . . . . . G-65  
**PARSONNET**  
epicardial . . . . . C-56  
**Passers**  
ligature, micro . . . . . N-122  
shunt . . . . . I-34-I-35, I-38-I-39  
UNI-SHUNT catheter . . . . . I-38  
**PATTERSON**  
empyema trocars . . . . . C-84, G-141  
**Pattie**  
neuro . . . . . N-61-N-122  
**PEAN**  
hemostatic forceps . . . . . G-19  
**PEAPOD**  
intervertebral disc rongeur . . . . . S-134  
**PEDERSEN**  
vaginal specula . . . . . O-23  
**PEERS**  
towel clamp . . . . . G-3  
**PENFIELD**  
dissectors . . . . . N-68, S-59  
watchmaker forceps . . . . . N-103  
**PENNINGTON**  
tissue grasping forceps . . . . . G-31  
**Pens**  
surgical marking . . . . . G-7, G-46, N-60, N-117  
**Percussor**  
neurological test instrument . . . . . N-123  
**Perforator**  
annular dissector . . . . . S-52, S-65, S-70, S-146  
disposable . . . . . N-50, N-63  
**Periosteotome**  
coastal . . . . . C-55  
**PG Magnum**  
KARLIN COBB elevators . . . . . S-56, S-78  
KARLIN cup curettes . . . . . S-44, S-74  
KARLIN ring curettes . . . . . S-46, S-76  
**PHANEUF**  
uterine artery forceps . . . . . O-8  
**PIPER**  
obstetrical forceps . . . . . O-13  
**Plates**  
CODMAN anterior cervical plates . . . . . S-2, S-10  
**Pliers** . . . . . G-54-G-55  
cinch . . . . . S-8, S-157  
**POOL**  
suction tubes . . . . . G-111  
**POPPEN**  
gigli saw guide . . . . . N-150  
monopolar cautery cord . . . . . N-42, N-92  
ventricular needle . . . . . I-43  
**POPPEN-GELPI**  
laminectomy retractor . . . . . S-112  
**Posterior Lumbar Interbody Fusion** . . . . . G-121, S-29  
**Posterior Lumbar Interbody Fusion Kit**  
lumbar fusion, posterior . . . . . S-25  
**POTTS**  
scissors . . . . . C-77

**POTTS-SMITH**  
dressing forceps . . . . . G-35  
scissors . . . . . C-76, C-79  
tissue forceps . . . . . C-47, G-39  
**PRATT**  
rectal speculum . . . . . G-108  
tissue grasping forceps . . . . . G-31  
uterine . . . . . O-3  
**Precision** . . . . . I-19  
**PRESBYTERIAN HOSPITAL**  
staphylorrhaphy elevator . . . . . N-77, S-59  
**PRIBRAM**  
suction tube . . . . . N-168  
**Probes**  
general purpose . . . . . G-55  
lachrymal . . . . . G-55  
**Proctoscopes** . . . . . G-55  
**Pronged Blades**  
crank frame retractor . . . . . S-85, S-111  
**PROVIDENCE HOSPITAL**  
hemostatic forceps . . . . . G-19  
**Punches**  
aortic . . . . . C-55  
bone . . . . . S-27  
microsurgical . . . . . N-124, N-172  
sella . . . . . N-124, N-172  
skull . . . . . C-55  
square . . . . . S-27  
tonsil . . . . . E-8  
transsphenoidal . . . . . N-124, N-172

## Q

**QUICKLINE**  
EDS II leveling device . . . . . I-3

## R

**RAGNELL**  
retractor . . . . . N-125  
**RAIMONDI**  
scalp hemostatic forcep . . . . . N-98  
**RANDALL**  
kidney stone forceps . . . . . G-26  
**RANEY**  
laminectomy rongeurs . . . . . S-141  
perforator drill . . . . . N-70  
scalp clip applying forceps . . . . . N-65, N-152  
scalp clips . . . . . N-64, N-151  
**RANKIN**  
hemostatic forceps . . . . . G-20  
**Rasps**  
periosteal . . . . . E-8  
rib . . . . . C-56  
**Regulator**  
nitrogen . . . . . N-55  
**REINER**  
rongeur . . . . . N-142, S-124  
**Reservoirs**  
ACCU-FLO . . . . . I-17  
CSF . . . . . I-17  
HOLTER . . . . . I-30, I-32  
ventriculostomy . . . . . I-32-I-33



# ALPHABETICAL INDEX

## Retractor

crile . . . . . C-59  
epicardial . . . . . C-56  
PARSONNET . . . . . C-56  
**Retractors** . . . . . S-150  
abdominal . . . G-57–G-61, G-70–G-74, G-76  
aortic valve . . . . . C-58  
appendectomy . . . . . G-60–G-61  
arm . . . . . G-75  
atrial . . . . . C-57–C-58  
blades . . . . G-72, G-75–G-76, G-90–G-93,  
S-28, S-33, S-100, S-114–S-115, S-121  
brain . . . . . N-129–N-133, N-138  
  self retaining . . . . . N-128  
cardiovascular . . . . . C-51, G-120  
cerebellar . . . . . N-134, N-139  
cervical . . . . . S-34–S-35  
cervical disc . . . . . S-114  
COBRA . . . . . G-70  
crank frame  
  spinal . . . . . S-84, S-110  
decompression . . . . . N-125  
dural . . . . . S-28  
dural suction, 90 . . . . . S-71, S-87–S-89,  
S-102–S-104, S-147  
dural suction, bayonet . . . . . S-69, S-87,  
S-101, S-145  
dural suction stylets . . . . . S-89, S-104  
endaural . . . . . G-78, N-140  
fiberoptic . . . . . H-6–H-8  
fixed . . . . . G-86  
flexible arm cerebellar . . . . . N-135  
general purpose . . . C-58, G-61–G-67, G-76,  
G-80, N-125, S-105  
hand held . . . . . N-125  
hard palate . . . . . S-151  
hemilaminectomy . . . S-112–S-113, S-115,  
S-117  
hooks . . . . . G-94, S-120  
horizontal flex bar . . . . . G-87  
hysterectomy . . . . . G-68, O-16  
internal mammary artery . . C-70, G-83, G-119  
lachrymal sac . . . . . E-9  
laminectomy . . . . . N-136–N-137, S-36,  
S-100, S-108–S-109, S-112–S-113, S-116  
lip . . . . . N-173  
lumbar . . . . N-136, S-28, S-31, S-84, S-86,  
S-110–S-111  
lung . . . . . C-56  
mastoid . . . . . G-78, N-138  
microlumbar . . . . . S-52, S-108, S-118  
microlumbar discectomy . . . . S-51, S-117  
nerve root . . . . S-31, S-101, S-105–S-107  
nerve root suction . . . . . S-107  
obstetric . . . . . O-16  
perineal . . . . . G-78  
peripheral vascular . . . . . C-59–C-60  
pharyngeal . . . . . N-114, S-149, S-151  
pillar . . . . . E-2  
popliteal . . . . . C-60  
rake . . . . . G-93, S-121  
rectal . . . . . G-43, G-68–G-69, G-84, G-94  
rib . . . . . C-60–C-64  
rings . . . . . G-87  
scalp . . . . . G-77–G-78, N-134, N-137

## Retractors – Continued

scapular . . . . . C-57  
segmented ring . . . . . G-89  
self-retaining . . . . C-59–C-65, C-67–C-68,  
G-70–G-74, G-76–G-80, N-134,  
N-137–N-140, S-28, S-34, S-108–S-109,  
S-112–S-113, S-115  
single tooth blade . . . . . S-35  
skin . . . . . N-139  
small incision . . . . . G-91  
small incision kit . . . . . G-44, G-85  
spinal . . . . . G-84, S-100, S-119  
spinal ring . . . . . S-119  
splanchnic . . . . . G-59  
spring . . . . . G-79  
sternal . . . . . C-65–C-68  
sternal blades . . . . . C-66  
table-fixed . . . . . G-42, G-45,  
G-81, G-86–G-87, G-90, O-14, O-17  
table-fixed  
  rings . . . . . G-88  
thyroid . . . . . G-63–G-64, G-77, S-109  
transoral . . . G-134, N-114, S-52, S-149–S-153  
vaginal . . . . G-45, G-69, G-86, G-90–G-91,  
G-95, O-14, O-17  
vascular . . . . . C-59  
vein . . . . . G-62, N-125, S-36, S-100  
wire . . . . . C-69, G-79  
**Retractors Table Fixed**  
  RICHARDSON blades . . . . . G-94  
**Retractors, Table Fixed**  
  BOOKWALTER medium round ring  
  segments . . . . . G-88  
**REUL**  
  aorta clamp . . . . . C-4  
  coronary artery scissors . . . . . C-75  
  coronary forceps . . . . . C-39  
**REYNOLDS**  
  vascular clamp . . . . . C-35  
**RHODE ISLAND HOSPITAL**  
  instrument holder . . . . . G-56, G-116  
**RHONET**  
  bayonet forceps . . . . . N-104  
  bipolar forceps . . . . . N-37–N-38, N-87  
  curettes . . . . . N-57  
  dressing forceps . . . . . N-97, N-105  
  dural forceps . . . . . N-105  
  elevator . . . . . N-77  
  micro cup forceps . . . . . N-106  
  micro dissection kit . . . . . N-69  
  micro dissection set . . . . . N-69, N-116  
  needle holder . . . . . N-118, N-120  
  nerve hooks . . . . . N-111  
  scissors . . . . . N-157, N-159  
  straight forceps . . . . . N-108  
  straight point needle . . . . . N-70, N-118  
  teardrop dissectors . . . . . N-69  
  tumor forceps . . . . . N-104  
**RHOTON BIPOLAR IRRIGATING FORCEPS**  
  N-41, N-91  
**RIBBON**  
  malleable retractors . . . . . G-65

## RICHARDSON

abdominal retractor . . . . . G-60  
appendectomy retractor . . . . . G-60–G-61  
retractor . . . . . G-60  
**RICHARDSON-EASTMAN**  
  retractor . . . . . G-61  
**RICHMOND**  
  subarachnoid screw . . . . . I-6  
  subarachnoid wrench . . . . . I-6  
**Rigid Endoscope**  
  GAAB neuroendoscope system . . . . . N-79  
**Ring**  
  compression  
  dura guard . . . . . N-52  
  segmented  
  surgical . . . . . G-89  
**ROBERTS**  
  episiotomy scissors . . . . . O-19  
**ROCHESTER-CARMALT**  
  hemostatic forceps . . . . . C-40, G-20  
**ROCHESTER-OCHSNER**  
  hemostatic forceps . . . . . G-20–G-21  
**ROCHESTER-PEAN**  
  hemostatic forceps . . . . . G-21  
**ROEDER**  
  towel clamp . . . . . G-3  
**ROGERS**  
  hysterectomy forceps . . . . . O-7  
  needle holder . . . . . G-51  
**Rollers**  
  cranioplastic . . . . . N-4, N-58  
**ROLLET**  
  lachrymal sac retractor . . . . . E-9  
**Rongeurs**  
  bone . . . . . N-140–N-143, N-145–N-147,  
  S-123–S-125, S-127, S-129  
  cervical laminectomy . . . . . S-141  
  cervical thin footplate . . . . . S-137  
  cranial . . . . . N-140–N-142, N-147–N-148,  
  S-122–S-124  
  intervertebral disc . . . . . S-38, S-130–S-136  
  laminectomy . . . . . N-143–N-145, S-37,  
  S-125–S-127, S-138–S-139, S-141  
  lumbar  
  kerrison . . . . . S-140  
  microsurgical . . . . . N-148  
  rib . . . . . C-71, N-143, S-125  
  spinal . . . . . S-142  
**Round Ring Segments**  
  BOOKWALTER . . . . . G-88  
**RUBIO**  
  needle holder . . . . . G-51  
  wire holding clamp . . . . . G-51  
**RUMEL**  
  cardiovascular tourniquets . . . . . C-84  
  thoracic forceps . . . . . C-46  
**RUSKIN**  
  bone cutting forceps . . . . . N-145, S-127  
  bone rongeur . . . . . N-145, S-127  
**RUSSIAN**  
  tissue forceps . . . . . G-39  
**RYDER**  
  needle holders . . . . . G-52

# ALPHABETICAL INDEX

## S

### SACHS

nerve separator-spatula . . . . . N-160  
suction tube . . . . . N-168

### SALIBI

carotid artery clamp . . . . . C-15

### SALMON-RICKHAM

ventriculostomy reservoir . . . . . I-33

### SAROT

bronchus clamp . . . . . C-8  
intra-thoracic forceps . . . . . C-46  
needle holders . . . . . G-53

### SATINSKY

vena cava clamp . . . . . C-35

### SAUERBRUCH

rib shears . . . . . C-81

### Saws

gigli handle . . . . . N-149  
sternum . . . . . C-72, G-124  
sternum saw blades . . . . . C-73  
wire . . . . . N-150

### SAWYER

rectal retractor . . . . . G-69

### SCHLESINGER

intervertebral disc rongeur . . . . . S-134

### SCHNIDT

hemostatic forceps . . . . . G-22

### SCHROEDER

uterine tenaculum forceps . . . . . O-10  
uterine vulsellum forceps . . . . . O-11

### SCHUBERT

uterine biopsy forceps . . . . . O-9

### SCHWARTZ

temporary intracranial artery clamps . . . . . N-23  
temporary vessel clamp applying  
forceps . . . . . N-23

### Scissors

. . . . . G-97, N-158, O-20  
abdominal . . . . . G-95  
bandage . . . . . G-96  
calcified tissue . . . . . C-78  
circumflex artery . . . . . C-73  
CLASSIC MAYO . . . . . G-99  
COOLEY . . . . . C-73  
corneal . . . . . E-9  
coronary . . . . . C-74  
coronary artery . . . . . C-52, C-74–C-75, G-122  
delicate . . . . . G-96–G-98  
dissecting . . . . . C-76, G-97, G-99–G-104  
dural . . . . . N-154–N-155  
endarterectomy . . . . . C-76  
episiotomy . . . . . O-18–O-19  
ganglion . . . . . N-155  
I.M.A. . . . . C-75  
IRIS . . . . . E-9, G-104–G-105  
JAMISON . . . . . C-77  
Mayo . . . . . G-98  
Metzenbaum . . . . . C-77  
micro pituitary . . . . . N-153  
microsurgical . . . . . N-153–N-154,  
N-156–N-160, O-19  
mitral valve . . . . . C-79–C-80  
nasal . . . . . E-9  
neuro-vascular . . . . . N-157

### Scissors – Continued

neurological . . . . . N-154–N-155  
operating . . . . . G-97, G-105–G-106, N-155  
POTTS-SMITH . . . . . C-76  
stitch . . . . . C-77, E-10, G-106–G-107  
strabismus . . . . . E-10  
suture . . . . . G-106–G-108  
tenotomy . . . . . C-77, E-9–E-10  
thoracic . . . . . C-76, G-104  
tonsil . . . . . E-10  
trigeminal . . . . . N-155  
umbilical . . . . . O-18  
uterine . . . . . O-19  
vascular . . . . . C-78–C-79  
wire . . . . . G-107–G-108

### Scissors, Metzenbaum

. . . . . G-103

### Scopes

common duct . . . . . G-108

### SCOTT

ventricular cannula . . . . . I-41–I-42

### SCOVILLE

brain spatulas . . . . . N-162  
cervical disc retractor . . . . . S-114  
hemilaminectomy retractor . . . . . S-113  
nerve root retractor . . . . . S-107  
retractor hook . . . . . S-113  
retractor hook with crossbar . . . . . S-116  
ruptured disc curettes . . . . . S-49  
ventricular needle . . . . . I-42

### SCOVILLE-HAVERFIELD

hemilaminectomy retractor . . . . . S-115

### Screw

subarachnoid . . . . . I-7

### Screwdriver

. . . . . N-3, N-45

### Screwdrivers

. . . . . N-47

### Screws

anterior cervical plate screws . . . . . S-2, S-11  
self-tapping anterior cervical cancellous  
bone screws . . . . . S-11  
subarachnoid . . . . . I-6

### SECTO

dissectors . . . . . G-8, G-109  
tonsil sponges . . . . . G-9, G-110

### SELETZ

ventricular cannula . . . . . I-41

### SELETZ-GELPI

laminectomy retractor . . . . . S-113

### SELVERSTONE

carotid artery clamp . . . . . C-16  
carotid artery clamp tools . . . . . C-16  
intervertebral disc rongeur . . . . . S-135

### SEMB

ligature carrying forceps . . . . . C-20, C-41

### Semi-Flexible Endoscope

EPIC MICROVISION Semi-Flexible  
Endoscope Kit . . . . . N-80

### SEMKEN

dressing forceps . . . . . N-97  
tissue forceps . . . . . N-101

### SEMMES

spinal fusion curettes . . . . . S-49

### SENN

retractor . . . . . G-66

### Separators

dural . . . . . N-160–N-161, S-60  
nerve . . . . . N-160

### Shavers

spinal . . . . . S-142

### Shears

rib . . . . . C-80–C-82

### SHORTBENT

stitch scissors . . . . . C-77, G-107

### Shunts

. . . . . I-20–I-23  
distal catheter . . . . . I-14–I-15  
distal peritoneal catheters . . . . . I-28  
HAKIM tube passer . . . . . I-23  
hydrocephalus . . . . . I-17, I-26–I-28, I-31,  
I-36–I-38, I-40  
lumbar peritoneal catheter . . . . . I-34, I-40  
passer . . . . . I-35, I-38  
right angle ventricular catheter . . . . . I-16  
ventricular catheter . . . . . I-15–I-16, I-25, I-29  
ventricular catheter-reservoir . . . . . I-30  
ventricular reservoir . . . . . I-17  
ventriculostomy kit  
GHAJAR GUIDE . . . . . I-8  
ventriculostomy reservoirs . . . . . I-32–I-33

### SIMPSON

obstetrical forcep . . . . . O-13  
uterine sound . . . . . O-20

### SIMS

rectal speculum . . . . . G-109  
uterine curettes . . . . . O-1  
uterine scissors . . . . . O-19

### SINGLEY (TUTTLE)

intestinal forceps . . . . . G-35, G-38

### SKILLMAN

hemostatic forceps . . . . . G-22

### Skull

tongs . . . . . N-47, N-161, S-142

### Skull Tongs

. . . . . N-47, N-161, S-142

### SMITH

nerve root suction retractor . . . . . S-107  
suture wire scissors . . . . . G-107

### SMITH-PETERSEN

bone gouges . . . . . S-62  
laminectomy rongeurs . . . . . N-145, S-127  
mallet . . . . . S-94  
osteotomes . . . . . S-98

### SMITHWICK

button hook . . . . . N-111  
nerve hook and dissector . . . . . N-112

### Snares

tonsil . . . . . E-11

### SNITMAN

endaural retractor . . . . . G-78, N-140

### SOFT WIRE

cable  
instrument set . . . . . S-6, S-155  
cable cutter . . . . . S-8  
cinch pliers . . . . . S-8, S-157  
cutter . . . . . S-157  
guides . . . . . S-64, S-158  
L-curve and S-curve . . . . . S-9  
sterilizing tray . . . . . G-135, S-9, S-158  
torque driver . . . . . S-8, S-157

### Sounds

uterine . . . . . O-20

# ALPHABETICAL INDEX

## Spanner

cervical . . . . . G-131, S-91–S-92, S-143  
lumbar . . . . . G-131, S-91–S-92, S-143

## Spatulas

brain . . . . . N-161–N-162  
nerve . . . . . N-160  
spinal . . . . . N-162

## Specula

microsurgical  
transsphenoidal . . . . . N-173  
nasal . . . . . E-11–E-12  
nasal bivalve . . . . . N-173  
rectal . . . . . G-108–G-109  
septum . . . . . E-11  
vaginal . . . . . O-21–O-23

## SPENCE

cranioplastic roller . . . . . N-4, N-58  
intervertebral disc rongeur . . . . . S-135

## SPENCER

stitch scissors . . . . . G-107

## SPETZLER

neuro-vascular instruments  
dissectors . . . . . N-67  
forceps . . . . . N-39, N-88, N-104  
needle holder . . . . . N-119  
scissors . . . . . N-157

## Spinal

curettes . . . . . S-47

## Spinal Fusion

anterior cervical fusion . . . . . S-20–S-24, S-26,  
S-39  
posterior lumbar interbody fusion  
(PLIF) . . . . . S-17, S-25–S-30

## Spondylophyte Impaction

annular dissector perforator . . . . . S-52, S-65,  
S-70, S-146  
central canal impactor . . . . . S-70, S-146  
dural suction retractor . . . . . S-69, S-87, S-101,  
S-145  
lateral gutter impactor . . . . . S-70, S-146  
micro, lateral . . . . . S-66, S-72, S-148  
micro, offset . . . . . S-66, S-72, S-148

## Sponge Forcep

. . . . . G-28

## Sponges

collagen . . . . . N-62, N-164  
dissectors . . . . . G-8, G-109  
neuro . . . . . N-61–N-62, N-122, N-164  
tonsil . . . . . G-9, G-110

## Spoons

brain . . . . . N-161  
microsurgical . . . . . N-163, N-171  
pituitary . . . . . N-163, N-171  
transsphenoidal . . . . . N-163, N-171

## Spreaders

lamina . . . . . S-144  
lumbar laminar . . . . . S-29  
pylorus . . . . . G-32  
vein . . . . . C-82  
vertebra . . . . . S-24, S-39

## Spring Clip Applier

. . . . . C-36

## SPURLING

intervertebral disc rongeurs . . . . . S-136

## STECHER

arachnoid knife . . . . . N-117

## Steerable Neuroendoscope

CODMAN steerable neuroendoscope . N-80

## STEVENS

tenotomy scissors . . . . . E-9

## STILLE-GIERTZ

rib shears . . . . . C-82

## STILLE-HORSLEY

bone cutting forceps . . . . . N-147, S-128

## STILLE-LISTON

bone cutting forceps . . . . . N-146, S-128

## STILLE-LUER

rongeur . . . . . N-146, S-129

## STONE

clamp applying forceps . . . . . G-25  
clamp locking device . . . . . G-25  
intestinal anastomosis clamp . . . . . G-25

## STOOKEY

cranial rongeur . . . . . N-142, S-124

## Storage Case

BOOKWALTER . . . . . G-113–G-114

## STRABISMUS

scissors . . . . . E-10

## STRATTE

needle holder . . . . . G-53

## Strippers

rib . . . . . C-82  
vein . . . . . G-9, G-110

## Strips

neuro . . . . . N-62, N-164

## STRULLY

gigli saw handles . . . . . N-149  
neurological scissors . . . . . N-154

## Stylets

dural suction retractors . . . . . S-89, S-104  
irrigating forceps . . . . . N-41, N-91

## SUBRAMANIAN

miniature aorta clamp . . . . . C-5

## Suction

BARON . . . . . G-110  
cannulas . . . . . N-165

## Suction Tube

BARON . . . . . G-110

## Suction Tubes

. . . . . C-83, G-111  
fiberoptic . . . . . H-8  
graft . . . . . C-83  
micro . . . . . N-168  
micro dissectors . . . . . G-126  
microsurgical . . . . . N-167–N-168, S-52,  
S-108, S-118  
transsphenoidal . . . . . N-166, N-173  
nerve root retractor . . . . . S-107  
neurosurgical . . . . . N-165–N-167, N-168  
vascular . . . . . C-83  
ventricular sump . . . . . C-83

## SUNDAY

staphylorrhaphy elevator . . . . . N-77, S-59

## SUNDT

AVM micro clip tray . . . . . G-138, N-19

## SUNDT SLIM-LINE

aneurysm clips . . . . . N-13–N-15  
clip appliers . . . . . N-20–N-21  
clip sterilizing tray . . . . . G-137–G-139, N-16,  
N-22  
graft clips . . . . . N-17

## SUNDT SLIM-LINE – Continued

mini aneurysm clip storage tray . G-138, N-19  
mini aneurysm clips . . . . . N-20  
temporary clips . . . . . N-21

## SURG-I-BAND

instrument marking tape . . . . . G-7, G-112

## SWEET

scissors . . . . . N-154  
sternal punch . . . . . C-55

## Synergy Malis

bipolar coagulator . . . . . N-28

## T

## Table Fixed Retractors

RICHARDSON blades . . . . . G-94

## Tape

instrument marking . . . . . G-7, G-112

## TAYLOR

dural scissors . . . . . N-155  
laminectomy blades . . . . . S-116  
percussion hammer . . . . . N-123  
spinal retractor . . . . . S-100

## TB (Touhy Borst) Adapter

for CODMAN Steerable  
neuroendoscope . . . . . N-82

## TEALE

uterine vulsellum forceps . . . . . O-11

## Telescope

rigid endoscope holder . . . . . N-78  
steerable endoscope holder . . . . . N-78

## Tenotomy

JAMISON . . . . . C-77  
POTTS . . . . . C-77

## THOMAS

uterine curettes . . . . . O-2

## THOMS-ALLIS

tissue forceps . . . . . G-32

## THOMS-GAYLER

uterine biopsy forceps . . . . . O-9

## Thoracic

JULIAN . . . . . C-44

## TICKNER

tissue forceps . . . . . G-39

## TIECK-HALLE

nasal speculum . . . . . E-12

## TI-FRAME

. . . . . S-15

## Tissue Forcep

. . . . . G-36, G-41

## Tissue Forceps

COOLEY . . . . . C-47

## Titanium Mesh

. . . . . N-5, N-59, N-121

## Tongs

skull . . . . . N-47, N-161, S-142

## Tongue Depressor

. . . . . E-2

## Tools

carotid artery clamp . . . . . C-16

## TOUHY

needle . . . . . I-40

## Tourniquets

cardiovascular . . . . . C-84

## Transoral

90°. . . . . S-150  
blade connector . . . . . S-150  
case . . . . . G-134, S-152  
curved blade . . . . . S-150

# ALPHABETICAL INDEX

**Transoral** – Continued  
 hard palate retractor . . . . . S-151  
 ligament grasping forceps . . . . . S-152  
 odontoid peg grasping forceps . . . . . S-152  
 pharyngeal retractor . . . . . S-151  
 retractor  
   micro-dissector . . . . . S-52, S-153  
   plate . . . . . S-153  
 retractor body . . . . . S-149  
 suction tube holder . . . . . S-151  
 tongue blade . . . . . S-150

**Transsphenoidal Instruments**

case . . . . . G-125, N-172  
 curettes . . . . . N-56, N-169  
 dissectors . . . . . N-67, N-171  
 enucleators . . . . . N-170  
 fork . . . . . N-171  
 knife handle . . . . . N-66, N-171  
 lip retractor . . . . . N-173  
 mirror . . . . . N-171  
 pituitary spoon . . . . . N-163, N-171  
 sella punch . . . . . N-124, N-172  
 specula . . . . . N-173  
 suction tubes . . . . . N-166, N-173

**Tray**

BOOKWALTER . . . . . G-113–G-114

**Trays**

sterilizing . . . . . G-115  
 SUNDT SLIM-LINE mini aneurysm  
   clips . . . . . N-19  
 Sundt slim-line mini aneurysm clips . . . . . G-138  
 VARI-ANGLE McFADDEN aneurysm clip  
   trays . . . . . N-6

**Trocars**

amniotic . . . . . O-23  
 empyema . . . . . C-84, G-141  
 gallbladder . . . . . G-140  
 UNI-SHUNT split . . . . . I-38

**TROUSSEAU**

tracheal dilators . . . . . G-5

**Tubes**

micro suction . . . . . N-168  
 micro suction dissectors . . . . . G-126  
 microsurgical suction . . . . . N-166–N-167, N-173  
 nerve root suction retractor . . . . . S-107  
 suction . . . . . C-83, G-111, N-168  
   graft . . . . . C-83  
   microsurgical . . . . . S-52, S-108, S-118  
   neurosurgical . . . . . N-165–N-166, N-168  
   vascular . . . . . C-83  
   ventricular sump . . . . . C-83

**TUFFIER**

rib retractor . . . . . C-64

**Tunnelers**

. . . . . C-84–C-86

**TYDINGS**

tonsil snare . . . . . E-11

**TYLER-GIGLI**

wire saw . . . . . N-150

**TYRRELL**

iris hook . . . . . E-6

## U

**U.S. ARMY**

retractor . . . . . G-66

**U-CHANNEL stripping** . . . . . I-44

**UNI-SHUNT**

anchoring clip . . . . . I-37  
 catheter passer . . . . . I-38  
 hydrocephalus shunt systems . . . . . I-36  
 right angle clip . . . . . I-37  
 split trocar . . . . . I-38

## V

**VALIN**

hemilaminectomy retractor . . . . . S-117

**Valves**

intracranial pressure . . . . . I-26

**VANDERBILT UNIVERSITY**

vessel forceps . . . . . C-49

**VARCO**

gallbladder forceps . . . . . G-11

**VARI-ANGLE**

temporary clip applying forceps . . . . . N-22

**VARI-ANGLE McFADDEN**

aneurysm clip trays . . . . . N-6

**Vascular**

COOLEY . . . . . C-47

**Vascular Kit**

. . . . . N-115

**Ventricular Cannulas**

. . . . . I-41–I-42

**Ventricular Catheters**

endoscopic shunt placement  
 slit ventricular catheter . . . . . N-83

**Ventricular Needles**

. . . . . I-42–I-44

**Ventriculostomy Kit**

. . . . . I-8

**Vertebral Body**

biopsy kit . . . . . S-5

**Vessel Supporter**

microsurgical . . . . . N-174

**Vice Grips**

. . . . . G-141

**VIENNA**

nasal specula . . . . . E-12

**VIRTUS**

splinter forceps . . . . . G-32

**VOLKMAN**

retractor . . . . . G-67

**VON GRAEFE**

fixation forceps . . . . . E-4

## W

**WALTER**

splinter forceps . . . . . G-33

**WANGENSTEEN**

needle holder . . . . . G-54

**WEARY**

nerve hook . . . . . N-112

nerve root retractor . . . . . S-107

**WEBSTERS**

. . . . . G-54

**WEISENBACH**

forceps holder . . . . . G-56, G-116

**WEITLANER**

retractor . . . . . G-80

**WELDON**

mini bulldog clamps . . . . . C-12

**WESCOTT**

stitch scissors . . . . . E-10

tenotomy scissors . . . . . E-10

**Wheels**

grinding . . . . . N-5, N-59

**WHITE**

tonsil seizing forceps . . . . . E-5

**WIEDER**

tongue depressors . . . . . E-2

**WILDE**

intervertebral disc rongeur . . . . . S-136

**WILLAUER-ALLIS**

thoracic tissue forceps . . . . . C-47–C-48

**WILLIAMS**

discectomy forceps . . . . . N-102, S-52, S-118

microlumbar discectomy

retractor . . . . . S-51, S-117

microlumbar discectomy suction

retractor . . . . . S-52, S-108, S-118

splinter forceps . . . . . G-33

**WILSON**

amniotic trocar . . . . . O-23

**Wire**

cutters . . . . . S-154

SOFWIRE . . . . . S-6–S-7, S-155–S-156

tonsil snare . . . . . E-11

twisters . . . . . C-86

**Wire Twister/Needle Holder**

. . . . . G-53

**WITTNER**

uterine biopsy forceps . . . . . O-9

**WOODSON**

dural separator and packer . . . . . N-161, S-60

elevator and spatula . . . . . N-162

**Wrenches**

subarachnoid . . . . . I-6

**WYLIE**

endarterectomy set . . . . . C-38, C-53

## Y

**YANKAUER**

suction tubes . . . . . G-111

**YASARGIL**

bipolar forceps . . . . . N-39, N-88

micro suction tube . . . . . N-168

**YOUNGE**

modified endometrial biopsy curette . . . . . O-2

**YOUNGE (modified)**

uterine biopsy forceps . . . . . O-9

## Z

**ZAUFAL-JANSEN**

rongeur . . . . . N-147, S-129



# CLAMPS GASTROINTESTINAL

GENERAL

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



# CLAMPS NON-CRUSHING ANTERIOR RESECTION

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



# CLAMPS, ORTHOPEDIC MENISCUS

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



# CLAMPS TOWEL

---



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

---



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

---



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

---



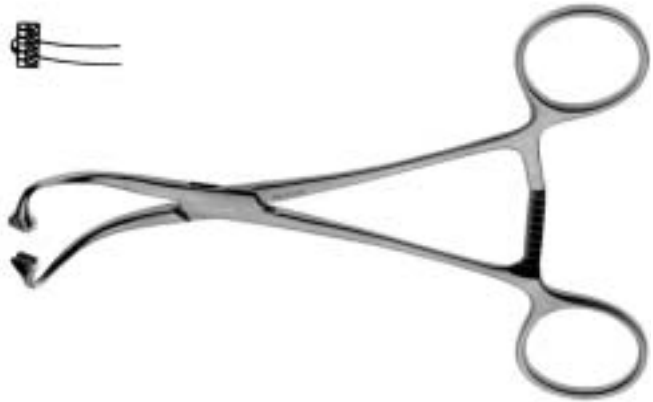
<b>19-1016</b>	JONES Towel Clamp, cross-action.		
	Length	3½"	(89mm)

---

# CLAMPS TOWEL

GENERAL

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



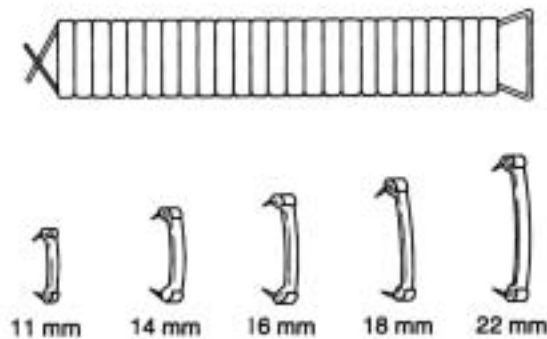
**19-4012** ROEDER Towel Clamp, ball stops.  
Length 5 $\frac{3}{4}$ " (133mm)



# CLIPS WOUND

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

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



# CLIPS WOUND

---



---

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

---



---

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

---



---

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

---



# DILATORS

GENERAL

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



Dilator sizes are given in French gauge.

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



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



# DISPOSABLES CLAMPS

---



---

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

---

# DISPOSABLES LUBRICANT

---



---

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

---

# DISPOSABLES MARKING PENS

GENERAL

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



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



# DISPOSABLES MARKING TAPE

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

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



# DISPOSABLES SPONGES

---



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

# DISPOSABLES SPONGES

GENERAL

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

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



81-1010



81-1011



81-1012

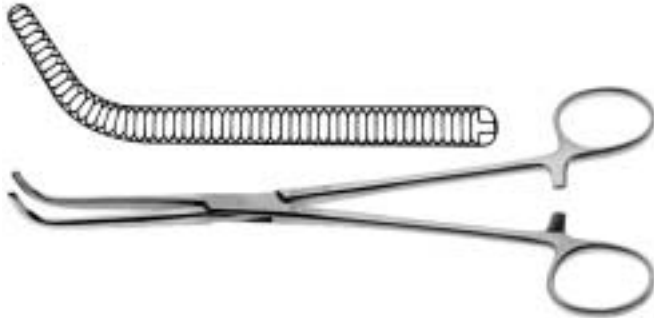
# DISPOSABLES VEIN STRIPPERS

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

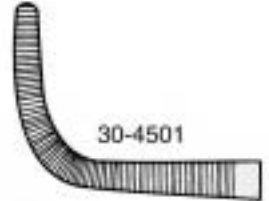




# FORCEPS, RING HANDLE GALLBLADDER



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



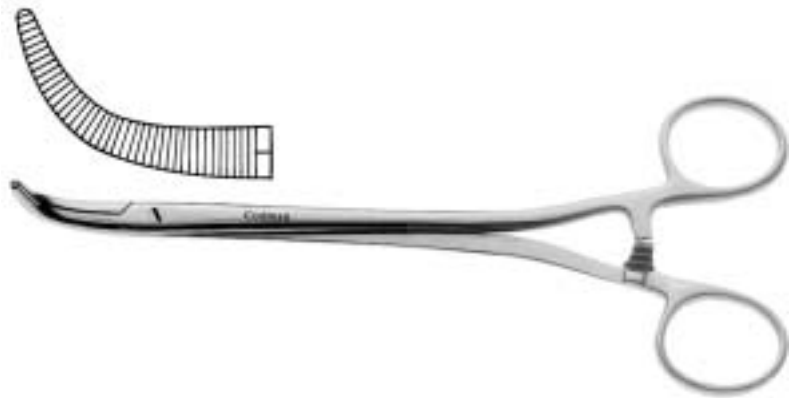
**30-4501** LAHEY Gall Duct Forceps  
Cross serrations  
Length 7½" (191mm)  
**30-4500** Longitudinal serrations  
Length 7½" (191mm)  
**30-4502** Length 8¾" (222mm)



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

# FORCEPS, RING HANDLE GALLBLADDER

GENERAL



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

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



# FORCEPS, RING HANDLE HEMOSTATIC

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



# FORCEPS, RING HANDLE HEMOSTATIC



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



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



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

# FORCEPS, RING HANDLE HEMOSTATIC

GENERAL

## CRILE CLASSIC® Hemostatic Forceps

Bright Finish

<b>33-4030</b>	Straight	Length	5½"	(140mm)
<b>33-4031</b>	Curved	Length	5½"	(140mm)
<b>33-4040</b>	Straight	Length	6¼"	(159mm)
<b>33-4041</b>	Curved	Length	6¼"	(159mm)

Low-Glare Finish

<b>34-4030</b>	Straight	Length	5½"	(140mm)
<b>34-4031</b>	Curved	Length	5½"	(140mm)
<b>34-4040</b>	Straight	Length	6¼"	(159mm)
<b>34-4041</b>	Curved	Length	6¼"	(159mm)

## CRILE Hemostatic Forceps

Standard Line

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



## DANDY™ Scalp Hemostatic Forceps, curved on side.

Length 5½" (140mm)

Bright Finish

**32-4160** Serrated

**32-4161** 1 x 2 teeth



# FORCEPS, RING HANDLE HEMOSTATIC

---



---

	CRILE CLASSIC® DELICATE	
	Hemostatic Forceps	
	Length	5½" (140mm)
<b>30-4467</b>	Straight	
<b>30-4468</b>	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)
<b>65-2418</b>	Straight	
<b>65-2419</b>	Curved	

---



# FORCEPS, RING HANDLE HEMOSTATIC

GENERAL

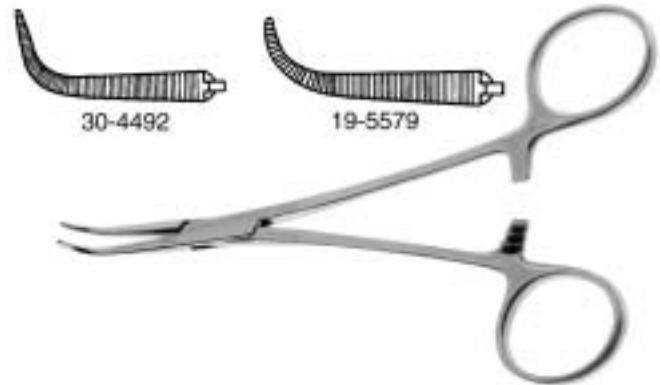


GEMINI Hemostatic Forceps, curved.

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

GEMINI CLASSIC® DELICATE  
Hemostatic Forceps

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



# FORCEPS, RING HANDLE HEMOSTATIC



## HALSTED CLASSIC® Mosquito Forceps

Bright Finish

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

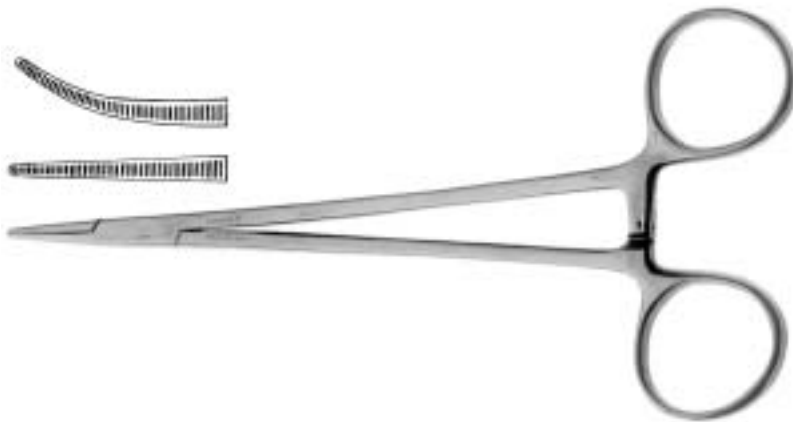
Low-Glare Finish

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

HALSTED Mosquito Forceps

Standard Line

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



## HALSTED Hemostatic Forceps

Length 7" (178mm)

<b>30-4038</b>	Straight
<b>30-4039</b>	Curved

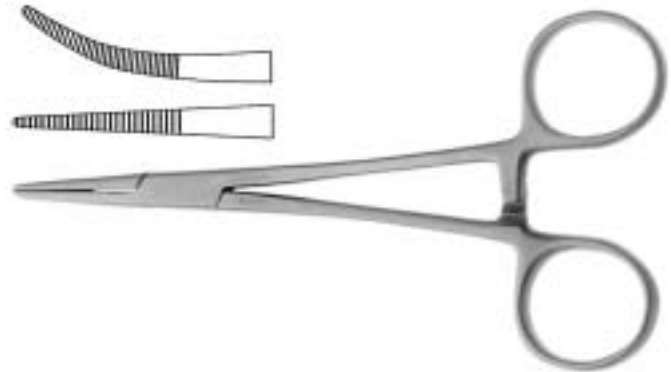
# FORCEPS, RING HANDLE HEMOSTATIC

GENERAL

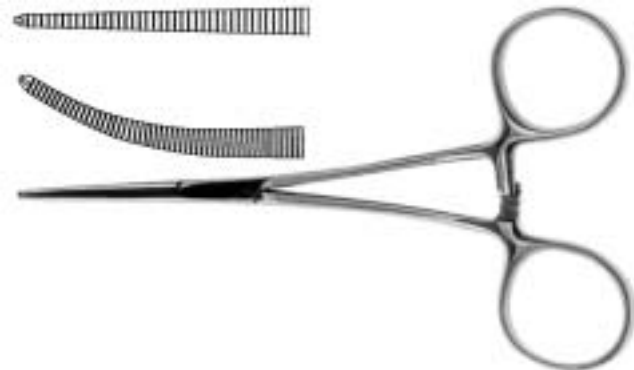
**30-4105** HALSTED Hemostatic Forceps, 1x2 teeth,  
 Length 5" (127mm)  
**30-4106** Straight  
 Curved



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



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



# FORCEPS, RING HANDLE HEMOSTATIC

---




---

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

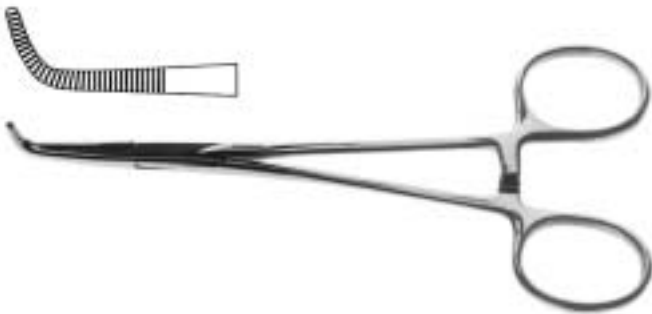
---




---

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

---




---

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

---

# FORCEPS, RING HANDLE HEMOSTATIC

GENERAL

## MOSQUITO CLASSIC® DELICATE

Hemostatic Forceps

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



## PEAN Hemostatic Forceps, cross-serrations.

Straight

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



## PEAN CLASSIC® DELICATE

Hemostatic Forceps, curved.

Length 5½" (140mm)

<b>30-4462</b>	Length	5½"	(140mm)
----------------	--------	-----	---------



## PROVIDENCE HOSPITAL™ Hemostatic Forceps

Length 5½" (140mm)

Bright Finish

Curved

<b>32-4011</b>	Length	5½"	(140mm)
----------------	--------	-----	---------





# FORCEPS, RING HANDLE HEMOSTATIC



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



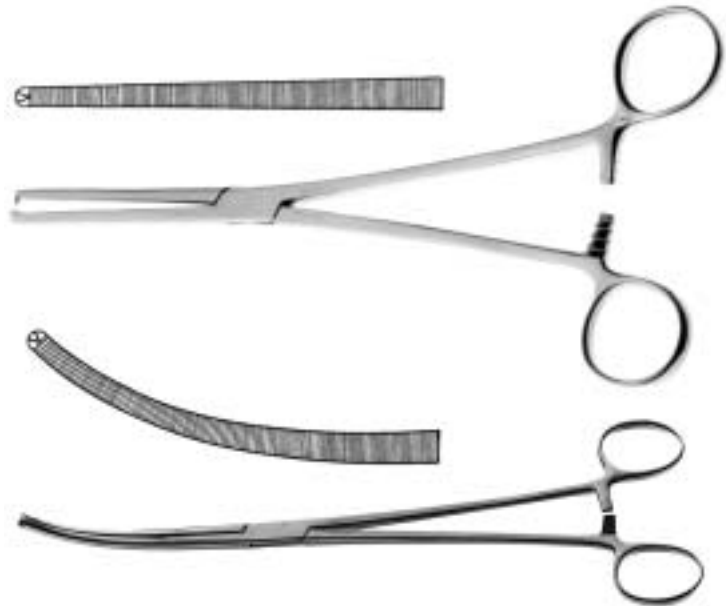
ROCHESTER-CARMALT™ Hemostatic Forceps			
Bright Finish			
<b>32-4141</b>	Curved	Length	6½" (165mm)
<b>32-4151</b>	Curved	Length	8" (203mm)



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

# FORCEPS, RING HANDLE HEMOSTATIC

GENERAL



ROCHESTER-OCHSNER Hemostatic Forceps,  
1x2 teeth.

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

ROCHESTER-PEAN CLASSIC®  
Hemostatic Forceps  
Bright Finish

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

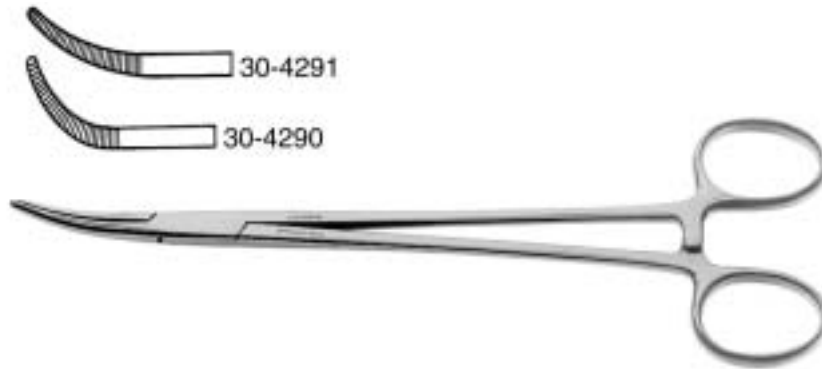


ROCHESTER-PEAN  
Hemostatic Forceps  
Standard Line

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

# FORCEPS, RING HANDLE HEMOSTATIC

---



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

---



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

---

# FORCEPS, RING HANDLE INTESTINAL

---



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

---

# FORCEPS, RING HANDLE INTESTINAL

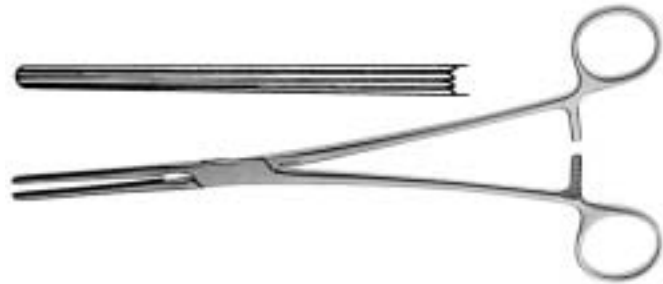
GENERAL

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

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



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

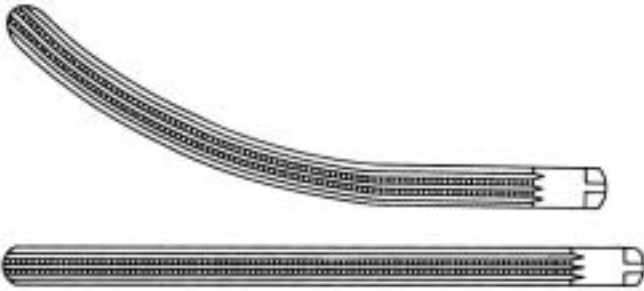


DOYEN Intestinal Forceps, diagonal serrations.  
Jaw length 4⅛" (105mm)  
Total length 9¼" (235mm)

<b>30-4305</b>	Straight
<b>30-4306</b>	Curved

# FORCEPS, RING HANDLE INTESTINAL

---

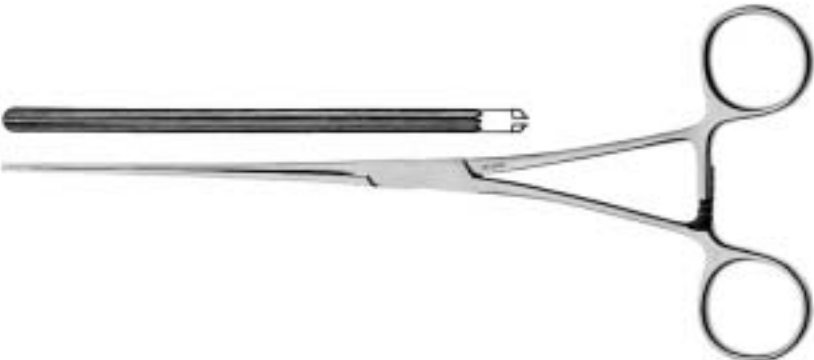



---

DOYEN Vascular Toothed Intestinal Clamps,  
2x3 vascular teeth.

	Jaw length	3 <sup>3</sup> / <sub>4</sub> "	(95mm)
	Total length	9"	(229mm)
<b>37-1600</b>	Straight		
<b>37-1601</b>	Curved		

---




---

KOCHER Intestinal Forceps,  
longitudinal serrations.

<b>30-4300</b>	Straight	Length	11"	(279mm)
----------------	----------	--------	-----	---------

---



# FORCEPS, RING HANDLE INTESTINAL

GENERAL

---

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

---



---

<b>19-4172</b>	STONE Clamp Applying Forceps		
	Length	6¼"	(159mm)

---



---

<b>19-4096</b>	STONE Clamp Locking Device		
----------------	----------------------------	--	--

---



---

	STONE Intestinal Anastomosis Clamp, longitudinal serrations.		
<b>19-4097</b>	Jaw length	3"	(76mm)
<b>19-4098</b>	Jaw length	4"	(102mm)

---



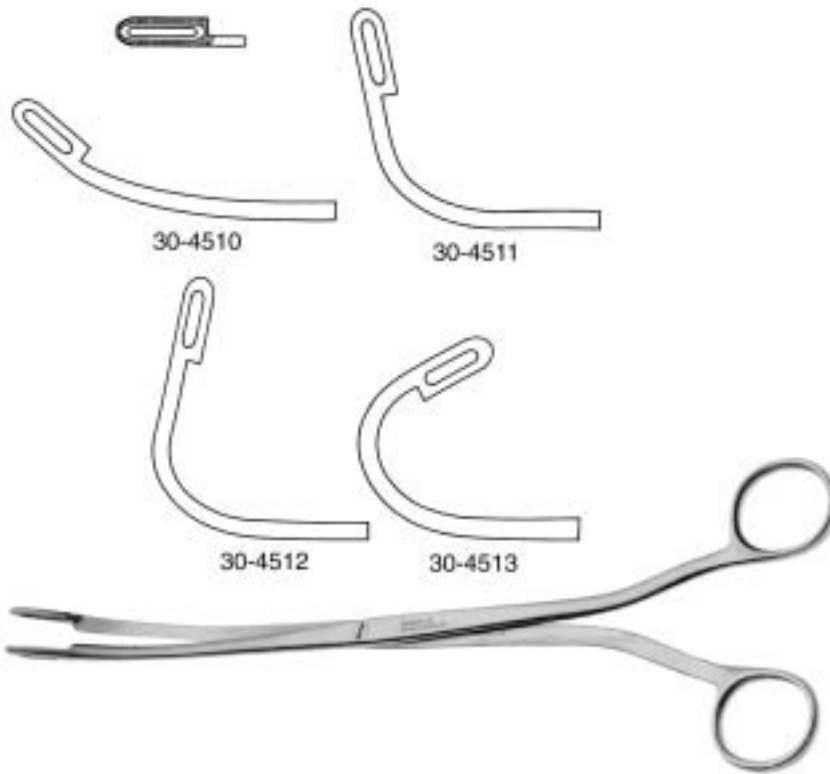
# FORCEPS, RING HANDLE KIDNEY

---



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

---



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

---

## FORCEPS, RING HANDLE LIVER



GENERAL

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

## FORCEPS, RING HANDLE LUNG

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



## FORCEPS, RING HANDLE PILE

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



## FORCEPS, RING HANDLE RIGHT ANGLE



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

## FORCEPS, RING HANDLE SPONGE



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



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

# FORCEPS, RING HANDLE TUBE HOLDING

GENERAL

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



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



# FORCEPS, RING HANDLE TISSUE

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



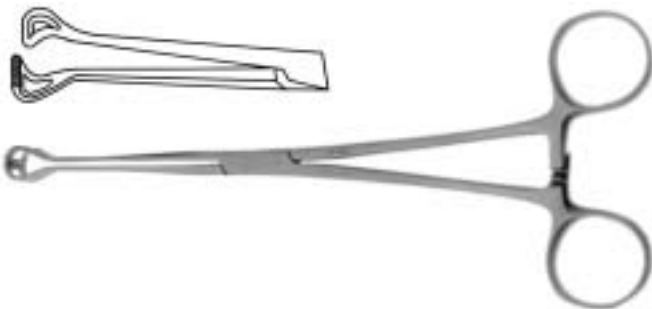
# FORCEPS, RING HANDLE TISSUE



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

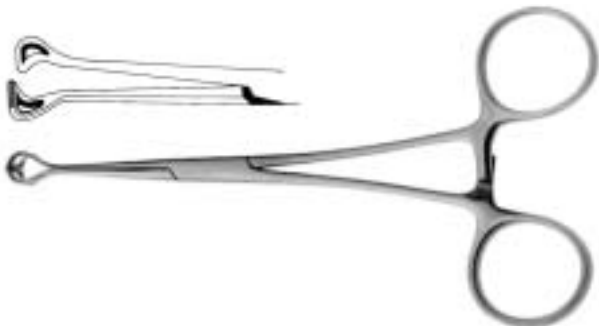


**30-4542** ALLIS-ADAIR Tissue Forceps, 9x10 teeth.  
Length 6" (152mm)



BABCOCK CLASSIC® Tissue Forceps

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

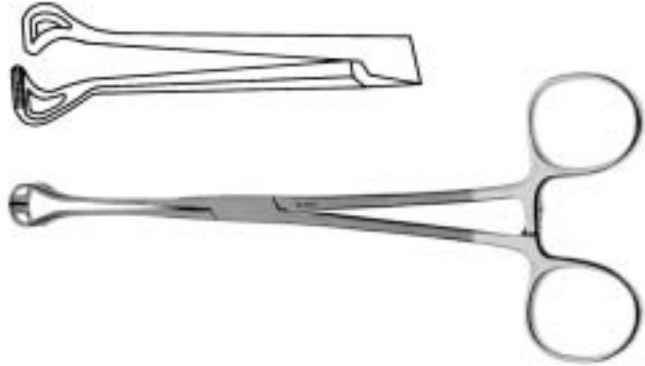


**30-4465** BABCOCK CLASSIC® DELICATE  
Tissue Forceps  
Length 5¾" (146mm)

# FORCEPS, RING HANDLE TISSUE

GENERAL

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



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



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

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



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





# FORCEPS, RING HANDLE TISSUE

---



---

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

---

# FORCEPS PYLORUS

---



---

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

---

# FORCEPS SPLINTER

---



---

<b>30-4258</b>	VIRTUS Splinter Forceps
Length	6" (152mm)

---

# FORCEPS SPLINTER

GENERAL

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



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



# FORCEPS TENACULUM

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

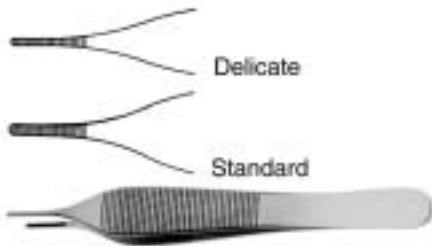


# FORCEPS, THUMB DRESSING

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



# FORCEPS, THUMB DRESSING



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



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



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



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

Tip width is measured 1mm from the instrument tip.

# FORCEPS, THUMB DRESSING

GENERAL



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

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



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

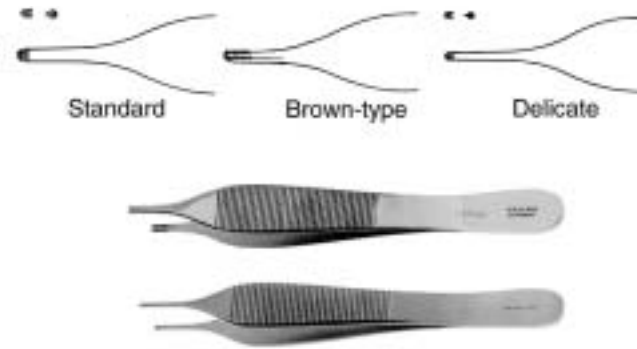


# FORCEPS, THUMB TISSUE

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



# FORCEPS, THUMB TISSUE

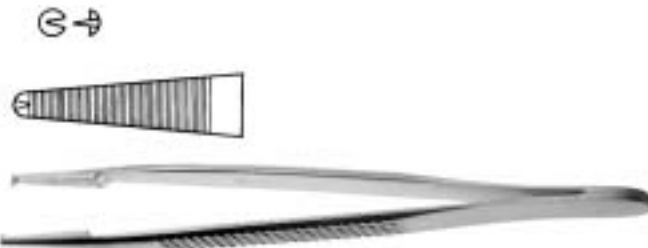


ADSON Tissue Forceps		
	Delicate pattern, 1x2 teeth	
<b>30-4218</b>	Tip width	.7mm (127mm)
	Length	5"
	Standard pattern, 1x2 teeth	
<b>30-1186</b>	Tip width	1.2mm (127mm)
	Length	5"
	Standard pattern, 2x3 teeth	
<b>30-1187</b>	Tip width	1.8mm (127mm)
	Length	5"
<b>30-1188</b>	Tip width	3mm (178mm)
	Length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

Tip width is measured 1mm from the instrument tip.



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



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



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

# FORCEPS, THUMB TISSUE

GENERAL



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

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

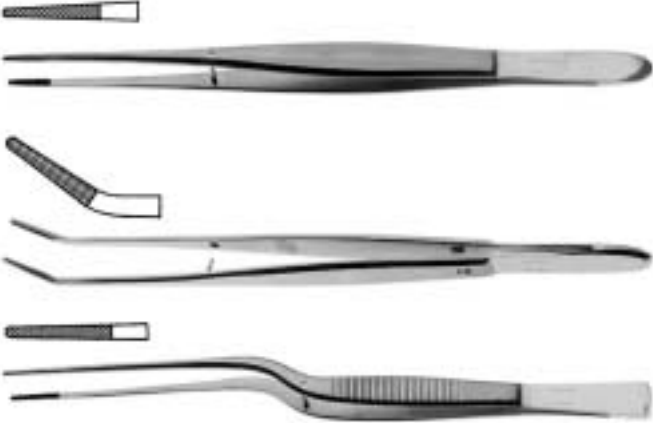


<b>36-6010</b>	CODMAN CLASSIC PLUS® General Surgery Tissue Forceps, tungsten carbide tip inserts.		
	Tip width		1.8mm
	Length	6"	(152mm)



Tip width is measured 1mm from the instrument tip.

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



# FORCEPS, THUMB TISSUE



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



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



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



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

Tip width is measured 1mm from the instrument tip.



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



# FORCEPS, THUMB TISSUE

GENERAL



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

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



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



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



Tip width is measured 1mm from the instrument tip.

# FORCEPS, THUMB TISSUE



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



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

# FORCEPS, THUMB TISSUE

GENERAL

<b>65-2420</b>	MAGNAFREE™ MRI Tissue Forcep, Non-Magnetic (Titanium) for Intraoperative MRI, MRI safe up to 1.5 Tesla		
	MRI Tissue Forcep, 2x3 teeth		
	Tip Width		3.9mm
	Length	5½"	(140mm)



# HANDLES KNIFE

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

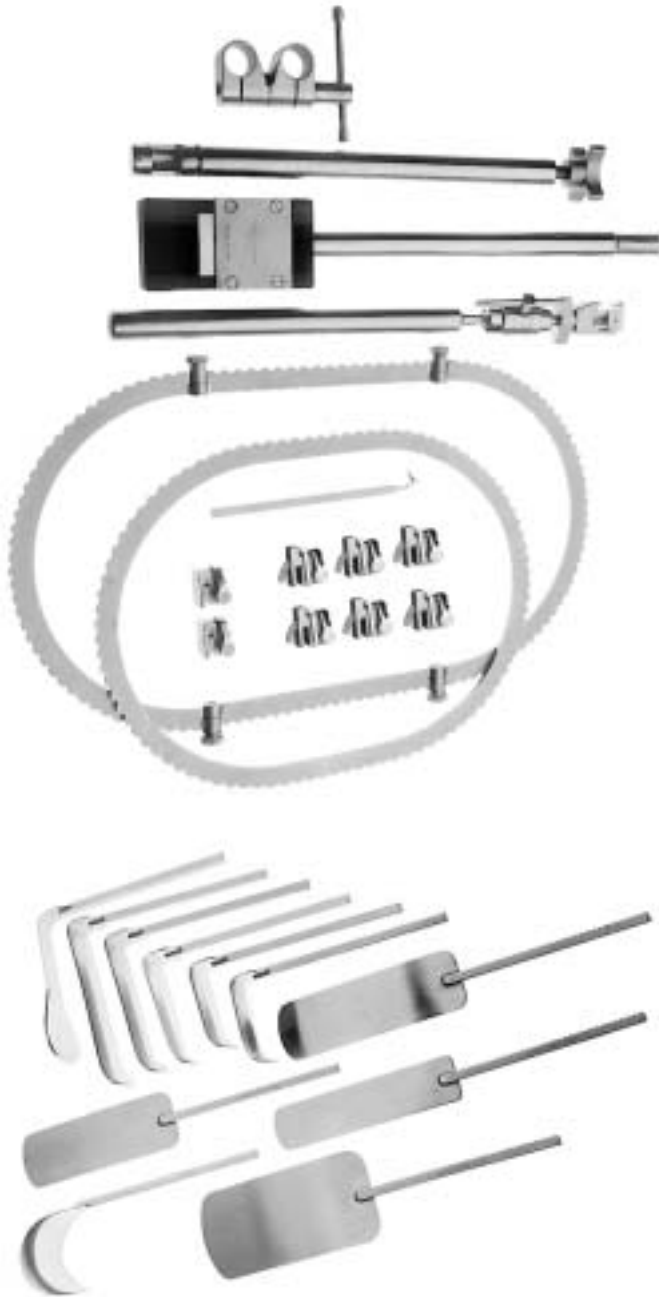


Knife blade No. 10, 11, 12, and 15 fit handle No. 3, 7 and 3 Long.  
 Knife blade No. 20, 21, 22, 23 and 24 fit handle No. 4

# KITS

## BOOKWALTER RETRACTOR

---



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

# KITS

## BOOKWALTER RETRACTOR RECTAL

GENERAL

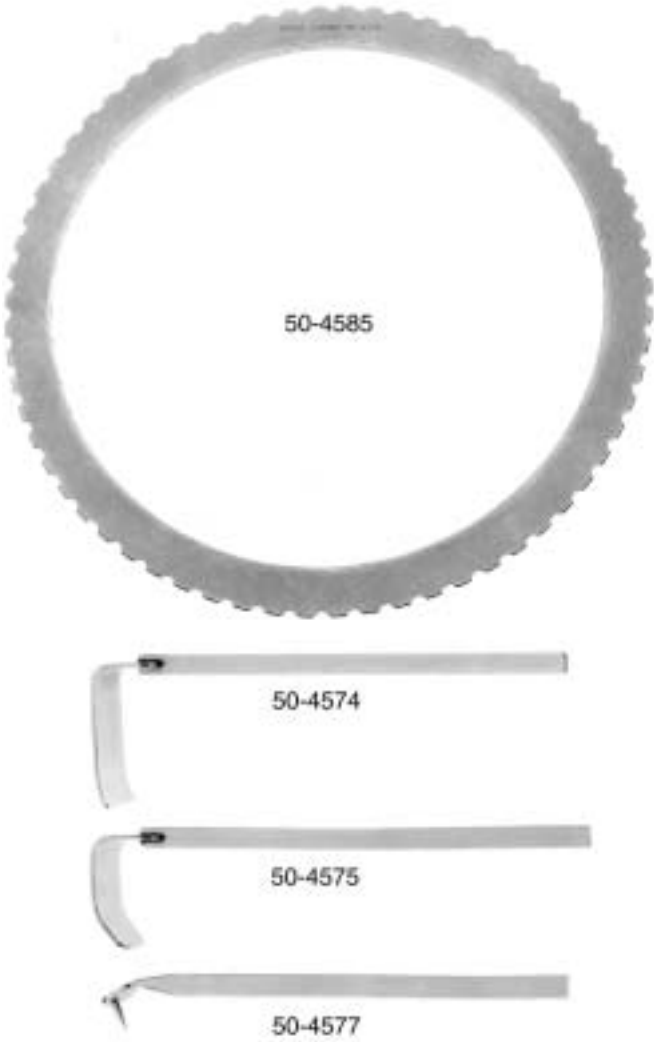
- 
- 50-4546** BOOKWALTER Rectal Kit  
includes:
- 50-4584** BOOKWALTER Small Round Ring  
8½" I.D. (216mm)
- 50-4585** BOOKWALTER Rectal Blades small (2 ea.)  
Length 2.85" (72mm) Width .850" (21.5mm)  
Depth of Curvature .455" (11.5mm)
- 50-4586** BOOKWALTER Rectal Blades large (2 ea.)  
Length 3.86"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



# KITS

## BOOKWALTER RETRACTOR-SMALL INCISION

---



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

## MAGRINA-BOOKWALTER RETRACTOR VAGINAL

- 50-4547** MAGRINA BOOKWALTER Vaginal Retractor  
Includes:
- 50-4590** Vaginal Retractor Ring I.D. 8" x 10½" (203mm x 266mm)
- 50-4591** Lateral Retractor Blade (2 ea) 1" x 3" (25mm x 89mm)
- 50-4592** Deaver Blade, Small 1" x 3½" (25mm x 89mm)
- 50-4593** Deaver Blade, Large 1" x 5" (25mm x 127mm)
- 50-4594** Posterior Blade 1" x 4½" (114mm)
- 50-4554** Post Coupling 1"
- 50-4582** Horizontal Flex Bar
- 50-4581** Table Post 1"
- 50-4580** Tilt Ratchet Mechanism (4 ea)

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



## LUBRICANT

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





# MARKING PENS



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



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

# NEEDLE HOLDERS



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



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



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

# NEEDLE HOLDERS

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

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



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

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



<b>64-2509</b>	CRILE-WOOD Needle Holder	Length	6"	(152mm)
----------------	--------------------------	--------	----	---------



<b>36-1010</b>	DERF CLASSIC PLUS® Needle Holder, tungsten carbide jaw inserts.	Length	5"	(127mm)
----------------	---	--------	----	---------



# NEEDLE HOLDERS

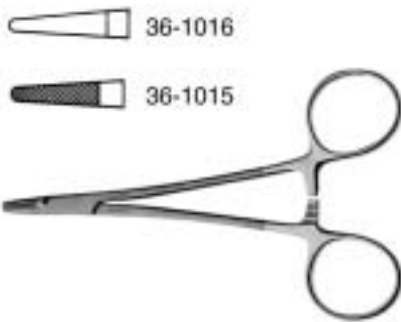
---




---

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

---




---

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

---




---

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

---




---

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

---

# NEEDLE HOLDERS

GENERAL

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



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



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



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



# NEEDLE HOLDERS

---



---

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

---



---

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

---



---

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

---

# NEEDLE HOLDERS

GENERAL



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

<b>36-4012</b>	Length	8"	(203mm)
<b>36-4011</b>	Length	10½"	(267mm)

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



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



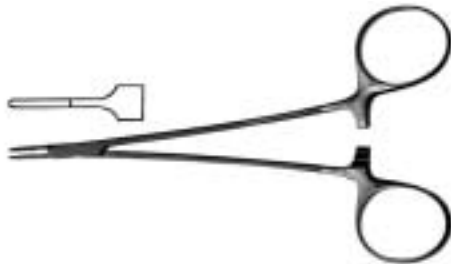
# NEEDLE HOLDERS



RYDER CLASSIC PLUS® Needle Holders  
tungsten carbide jaw inserts.

Serrated Jaw

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



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

Smooth Jaw

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



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

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



# NEEDLE HOLDERS

---

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

---



---

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

---



---

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

---



# NEEDLE HOLDERS

---



---

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

---



---

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

---

# PLIERS

---



---

**37-4102** PLIERS  
Length 6½" (17cm)

---

## PLIERS

---

<b>37-4100</b>	NEEDLE NOSE Pliers		
	Length	6¼"	(16cm)

---



GENERAL

## PROBES

---

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

---



---

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

---



## PROCTOSCOPE

---

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

---



# RACKS, HOLDERS INSTRUMENT STERILIZING

---




---

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

---




---

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

---




---

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

---

# RACKS, HOLDERS INSTRUMENT STERILIZING

GENERAL

---

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

---



---

## RETRACTORS, HAND-HELD ABDOMINAL

---

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

---



# RETRACTORS, HAND-HELD ABDOMINAL

---




---

DEAVER Retractors, standard handle.

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

---




---

DEAVER Retractors, ring-grip handle.

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

---

# RETRACTORS, HAND-HELD ABDOMINAL

GENERAL



## HARRINGTON Splanchnic Retractors

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

## KELLY Retractors, standard handle.

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



# RETRACTORS, HAND-HELD ABDOMINAL



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



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



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



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



# RETRACTORS, HAND-HELD ABDOMINAL

GENERAL

<b>50-4131</b>	RICHARDSON Appendectomy Retractor, ring-grip handle.		
	Blade width	3/4"	(19mm)
	Blade depth	2"	(51mm)
	Length	9 1/4"	(235mm)



<b>50-4135</b>	RICHARDSON-EASTMAN Retractors, double-ended, set of two.		
	Small		
	Blade width	7/8"	(22mm)
	Blade depth	15/16"	(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, HAND-HELD GENERAL PURPOSE

<b>50-5608</b>	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)



# RETRACTORS, HAND-HELD GENERAL PURPOSE

---



<b>50-4100</b>	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)

---



<b>50-5645</b>	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)

---



<b>50-4105</b>	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)

---



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

---



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

---

# RETRACTORS, HAND-HELD GENERAL PURPOSE

GENERAL



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

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



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



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



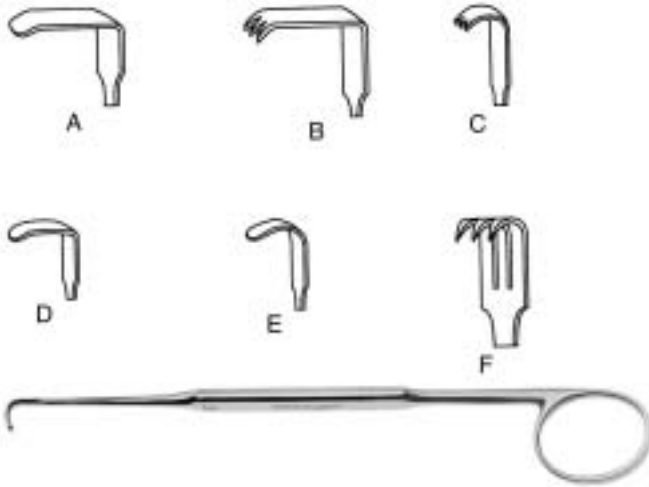
	MATHIEU Retractors, double-ended, three prong blade.
	Prong width 3/8" (10mm)
	Blade width 1/4" (6mm)
	Blade depth 3/4" (19mm)
	Length 6 <sup>1</sup> / <sub>2</sub> " (164mm)
<b>50-4290</b>	Sharp
<b>50-4291</b>	Blunt



# RETRACTORS, HAND-HELD GENERAL PURPOSE



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



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



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

# RETRACTORS, HAND-HELD GENERAL PURPOSE

GENERAL



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

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



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

# RETRACTORS, HAND-HELD GENERAL PURPOSE

---



---

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

---



---

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

---

# RETRACTORS, HAND-HELD GENERAL PURPOSE

GENERAL



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

# RETRACTORS, HAND-HELD HYSTERECTOMY

---



HEANEY Hysterectomy Retractors		
<b>50-5565</b>	Blade width	1" (25mm)
	Blade depth	1¾" (44mm)
	Length	6½" (165mm)
<b>50-5566</b>	Blade width	1⅝" (29mm)
	Blade depth	2⅞" (73mm)
	Length	6½" (165mm)
<b>50-5567</b>	Blade width	1⅝" (29mm)
	Blade depth	3¼" (83mm)
	Length	6½" (165mm)

---



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

---

# RETRACTORS, HAND-HELD RECTAL

---



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

---



# RETRACTORS, HAND-HELD RECTAL

GENERAL



---

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

---

# RETRACTORS, HAND-HELD VAGINAL

---

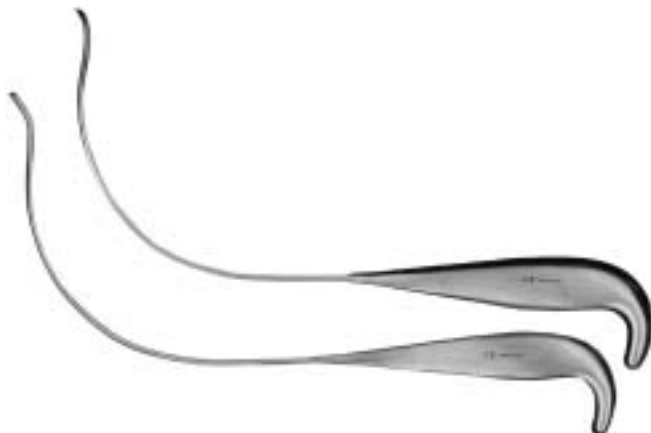
	<b>JACKSON Vaginal Retractors</b>		
<b>50-5540</b>	Blade width	1½"	(38mm)
	Blade depth	3"	(76mm)
	Length	6¾"	(171mm)
<b>50-5541</b>	Blade width	1½"	(38mm)
	Blade depth	3½"	(89mm)
	Length	6¾"	(171mm)
<b>50-5542</b>	Blade width	1½"	(38mm)
	Blade depth	4"	(102mm)
	Length	6¾"	(171mm)

---



# RETRACTORS ORTHOPAEDIC

---



---

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

---

---

# RETRACTORS, SELF-RETAINING ABDOMINAL

---



---

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

---

# RETRACTORS, SELF-RETAINING ABDOMINAL

GENERAL

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

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



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

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



# RETRACTORS, SELF-RETAINING ABDOMINAL

---



---

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

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

---



---

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

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

---

# RETRACTORS, SELF-RETAINING ABDOMINAL

GENERAL

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

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



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

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



# RETRACTORS, SELF-RETAINING ABDOMINAL

---



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

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

---



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

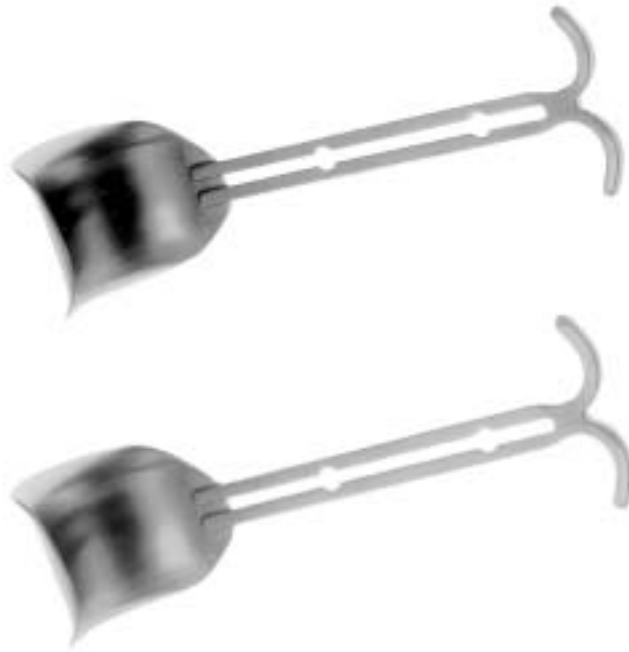
Lateral blade width	1"	(25mm)
Lateral blade depth	1"	(25mm)
Center blade width	1"	(25mm)
Center blade depth	1"	(25mm)
Arm length	3½"	(89mm)
Total opening	3¾"	(95mm)

---

# RETRACTORS, SELF-RETAINING ABDOMINAL

GENERAL

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



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



# RETRACTORS, SELF-RETAINING ABDOMINAL

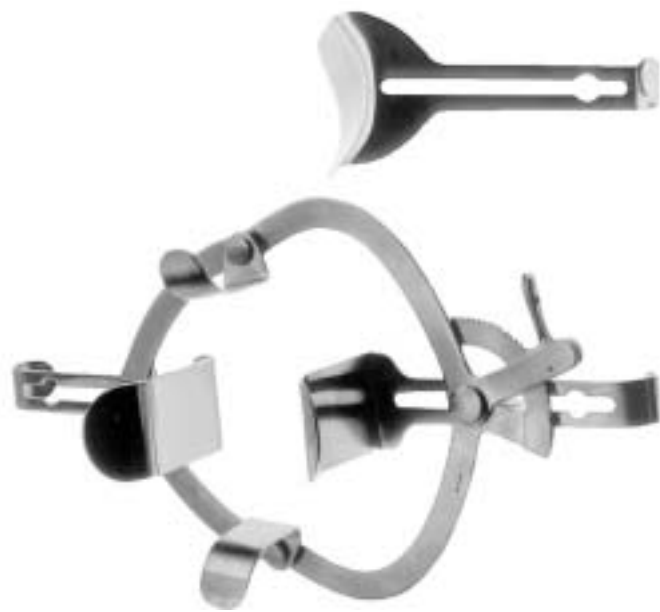
---



---

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

---



---

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

---

---

# RETRACTORS, SELF-RETAINING

---



---

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

---



# RETRACTORS, SELF-RETAINING

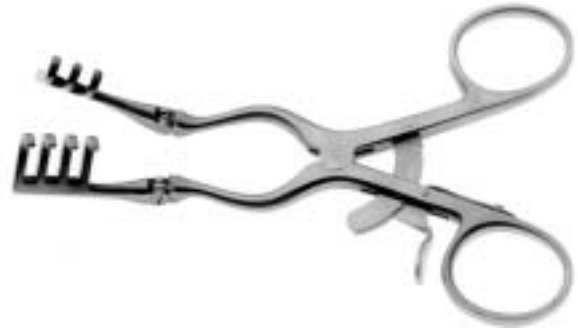
<b>50-1186</b>	ANDERSON-ADSON Scalp Retractor, self-retaining with angular arms, 4x4 sharp prongs.	
	Blade width	$\frac{3}{4}$ " (19mm)
	Blade depth	$\frac{5}{8}$ " (16mm)
	Total opening	$4\frac{1}{2}$ " (114mm)
	Length	$7\frac{1}{2}$ " (191mm)



<b>50-1165</b>	BECKMAN Thyroid Retractor, self-retaining with hinged arms. Four prong, sharp blades	
	Blade width	$\frac{3}{4}$ " (19mm)
	Blade depth	1" (25mm)
	Total opening	$5\frac{1}{2}$ " (140mm)
	Length	12" (305mm)



	CONE Scalp Retractors, self-retaining, with hinged arms.	
<b>50-1166</b>	3x4 blunt prongs	
	Length	$5\frac{3}{4}$ " (146mm)
<b>50-1167</b>	3x4 sharp prongs	
	Length	$6\frac{3}{8}$ " (162mm)



<b>50-1220</b>	CONTOUR Scalp Retractor, self-retaining, with blades curved to fit contour of skull, 3x4 blunt prongs.	
	Blade width	$\frac{5}{8}$ " (16mm)
	Blade depth	$\frac{5}{8}$ " (16mm)
	Total opening	$2\frac{1}{2}$ " (64mm)
	Length	$5\frac{1}{2}$ " (140mm)



# RETRACTORS, SELF-RETAINING

---




---

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

---




---

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

---




---

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

---



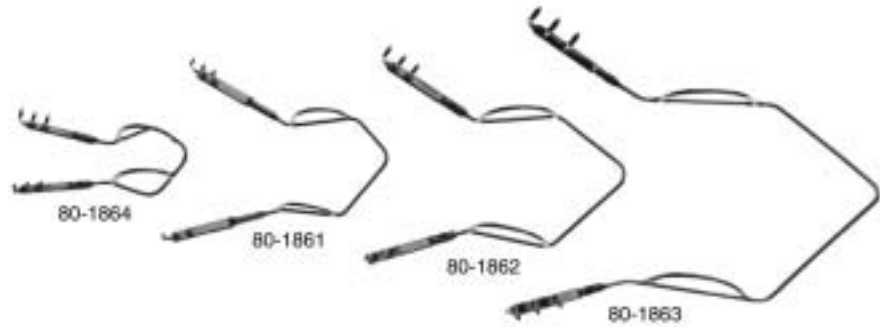
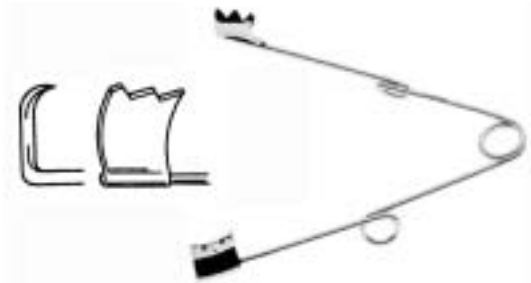

---

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

---

# RETRACTORS, SELF-RETAINING

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



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

# RETRACTORS, SELF-RETAINING

---



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

---



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

---

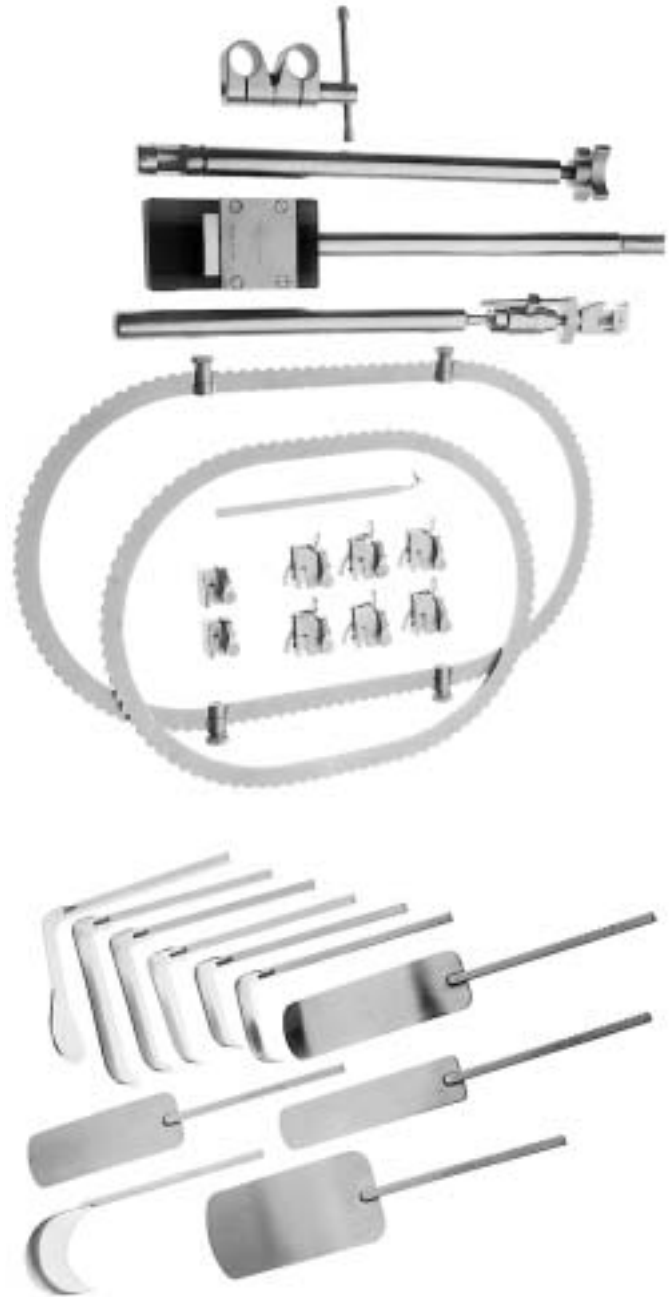
# RETRACTORS, TABLE FIXED BOOKWALTER BASIC

GENERAL

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

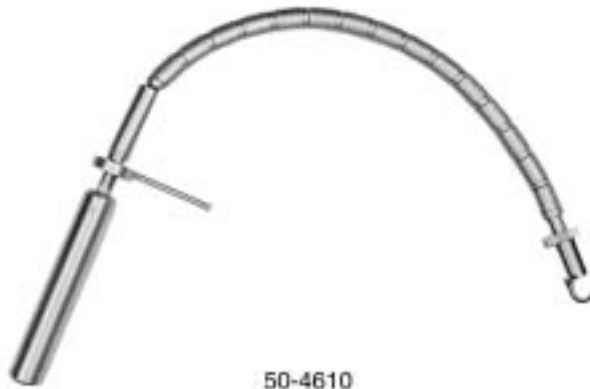
**Accessories:**

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



# RETRACTORS, TABLE FIXED BOOKWALTER ENDO HOLDER

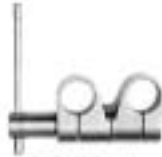
---



50-4610



50-4581



50-4554

---

**50-4611** BOOKWALTER Endoscopic Instrument Holder Kit.

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

Kit includes:

**50-4610** BOOKWALTER Endoscopic Instrument Holder

**50-4581** BOOKWALTER Table Post

**50-4554** BOOKWALTER Post Coupling

---



---

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

Set includes:

**50-4625** BOOKWALTER-CABRERA Fiberoptic Clip

**50-4626** BOOKWALTER Fiberoptic Light\*

---

Steam Sterilize

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

---

# RETRACTORS, TABLE FIXED BOOKWALTER IMA KIT

GENERAL

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

**50-4600** BOOKWALTER IMA Retractor

Includes:

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



# RETRACTORS, TABLE FIXED BOOKWALTER RECTAL KIT



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

# RETRACTORS, TABLE FIXED BOOKWALTER SPINAL KIT



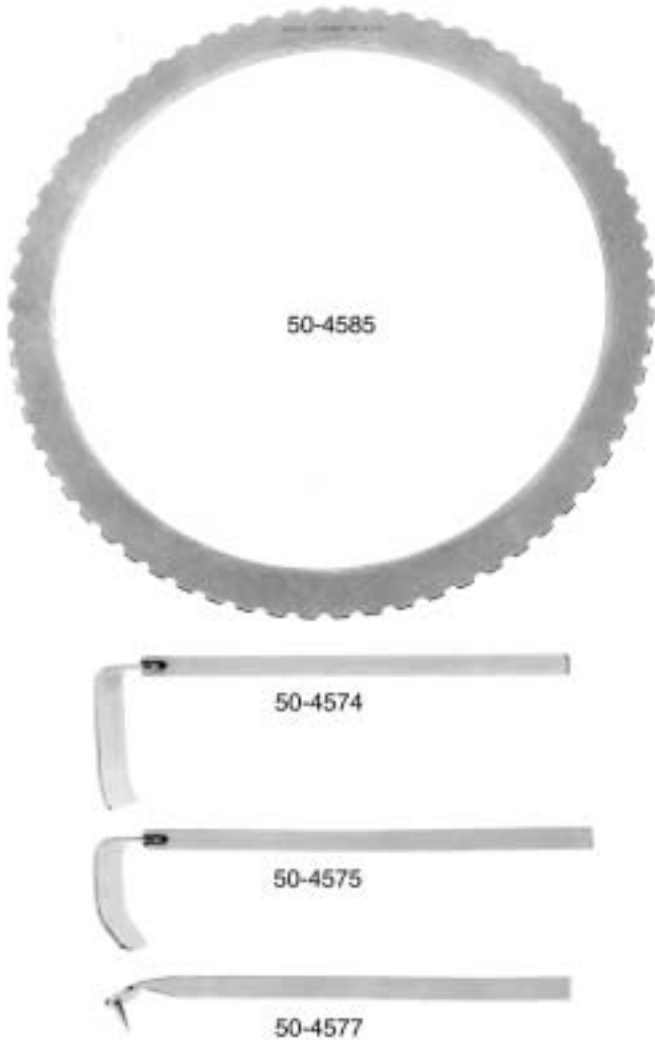
- 
- 50-4631** BOOKWALTER Spinal Retractor  
includes:
  - 50-4581** BOOKWALTER Table Post 1"
  - 50-4582** BOOKWALTER Horizontal Flex Bar
  - 50-4554** BOOKWALTER Post Coupling 1" x 1"
  - 50-4635** BOOKWALTER Small Round Ring  
Segments (1 pair)
  - 50-4636** BOOKWALTER Straight Ring Segment 4"  
(1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



# RETRACTORS, TABLE FIXED BOOKWALTER SMALL INCISION KIT

GENERAL

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



# RETRACTORS, TABLE FIXED MAGRINA-BOOKWALTER VAGINAL KIT

---



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

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

---

# RETRACTORS, TABLE FIXED BOOKWALTER COMPONENTS

---



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



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

# RETRACTORS, TABLE FIXED BOOKWALTER COMPONENTS

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



<b>50-4582</b>	BOOKWALTER Horizontal Flex Bar 360° rotation		



<b>50-4553</b>	BOOKWALTER Vertical Extension Bar		
	Length	12"	(305mm)



Must be used with 50-4554 post coupling

<b>50-4579</b>	BOOKWALTER Standard Ratchet Mechanism
<b>50-4580</b>	BOOKWALTER Tilting Ratchet Mechanism



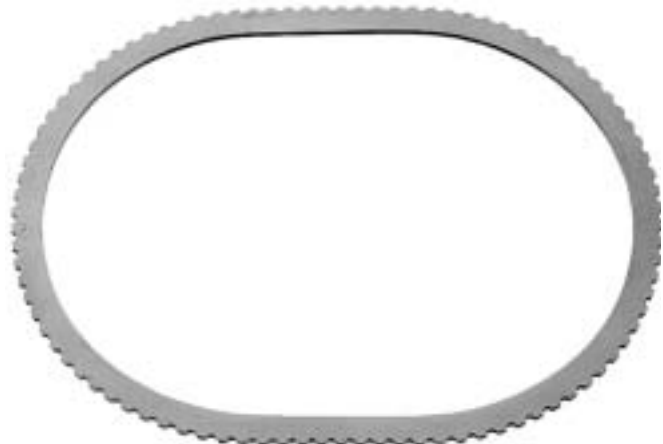
50-4579



50-4580

# RETRACTORS, TABLE FIXED BOOKWALTER RINGS

<b>50-4556</b>	BOOKWALTER Oval Rings		
	Large		
	Width (I.D.)	12"	(267mm)
<b>50-4557</b>	Medium		
	Width (I.D.)	10½"	(267mm)
	Length (I.D.)	14½"	(368mm)
<b>50-4558</b>	Small		
	Width (I.D.)	8"	(203mm)
	Length (I.D.)	12¼"	(311mm)



# RETRACTORS, TABLE FIXED BOOKWALTER RINGS

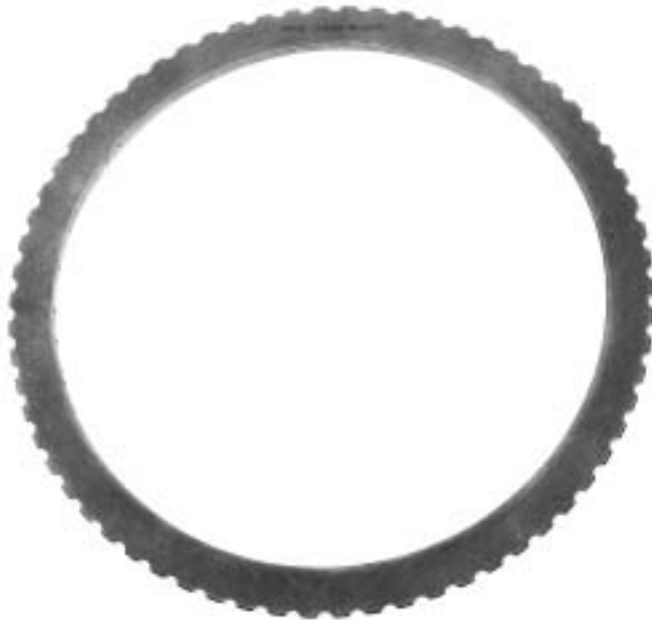
---



---

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

---



---

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

---

# RETRACTORS, TABLE FIXED BOOKWALTER RINGS

GENERAL

---

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

---



# RETRACTORS, TABLE FIXED BOOKWALTER RINGS

---



---

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

---

---

# RETRACTORS, TABLE FIXED BOOKWALTER BLADES/ACCESSORIES

---



---

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

---

# RETRACTORS, TABLE FIXED BOOKWALTER BLADES/ACCESSORIES

GENERAL

---

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

---



---

<b>50-4577</b>	BOOKWALTER GELPI Point Retractor Blade			
----------------	--	--	--	--

---



---

<b>50-4566</b>	BOOKWALTER-HARRINGTON Retractor Blade			
	Width	2½"	(63mm)	
	Depth	5⅝"	(143mm)	

---



# RETRACTORS, TABLE FIXED BOOKWALTER BLADES/ACCESSORIES

---



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

---



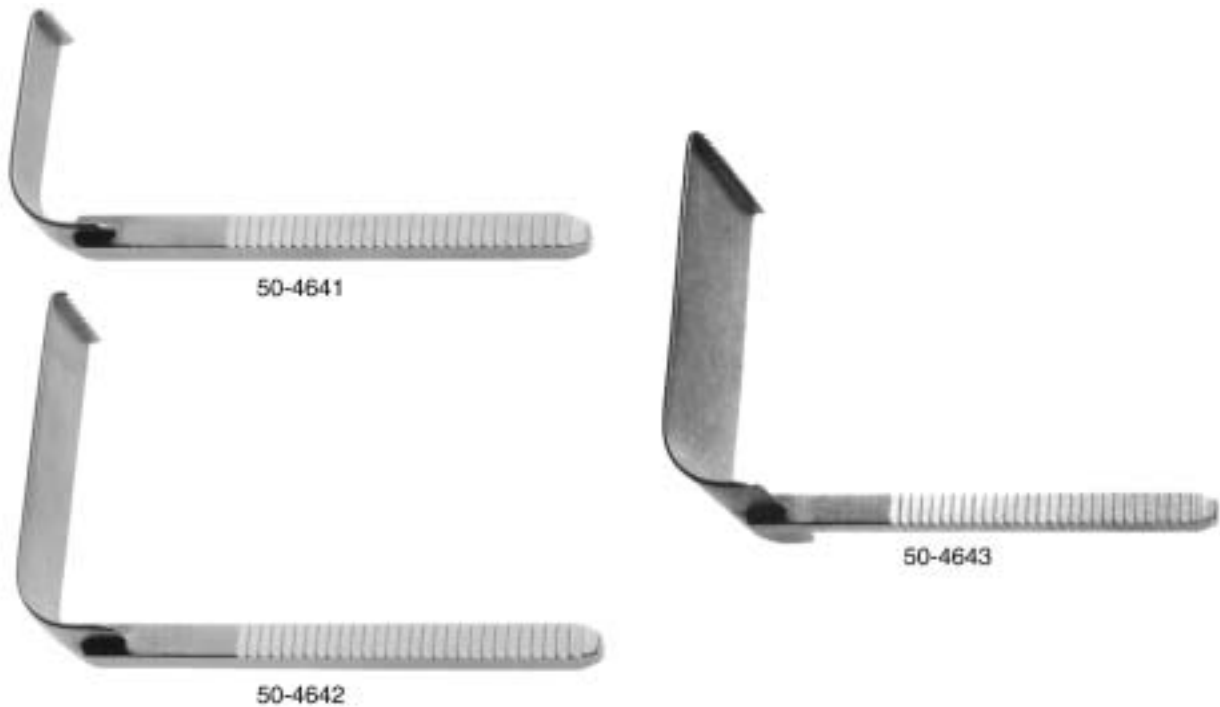
BOOKWALTER Malleable Retractor Blades			
	Length	6"	(152mm)
<b>50-4561</b>	Width	2"	(51mm)
<b>50-4562</b>	Width	1½"	(38mm)
<b>50-4567</b>	Width	3"	(76mm)

---



# RETRACTORS, TABLE FIXED BOOKWALTER BLADES/ACCESSORIES

GENERAL

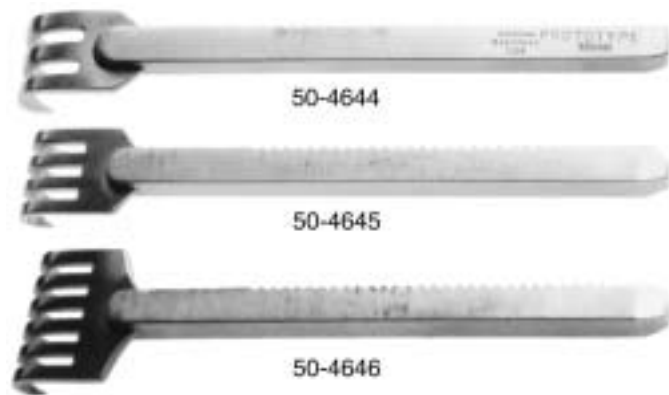


## BOOKWALTER-MEYERDING Retractor Blades

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

## BOOKWALTER Rake Retractors

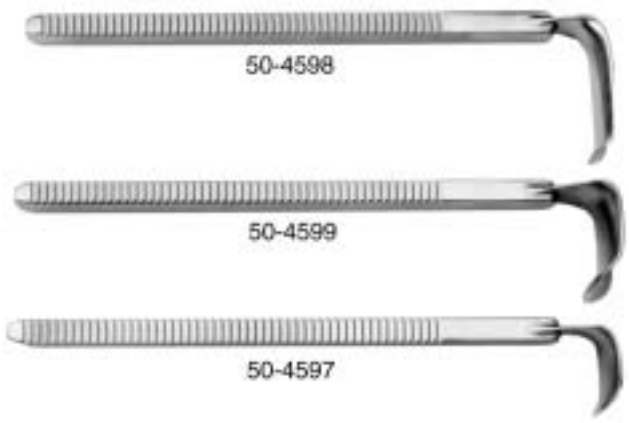
		Depth	Width
<b>50-4644</b>	3 Prongs	3/4" (19mm)	2/3" (17mm)
<b>50-4645</b>	4 Prongs	1/3" (8.4mm)	3/4" (19mm)
<b>50-4646</b>	6 Prongs	1/3" (8.4mm)	1" (25mm)



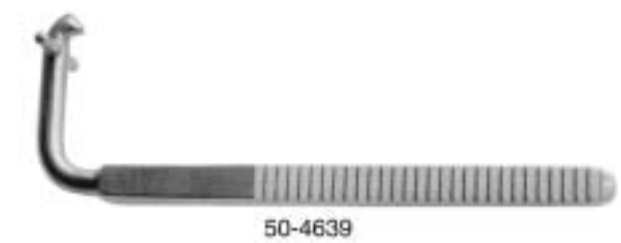
# RETRACTORS, TABLE FIXED BOOKWALTER BLADES/ACCESSORIES



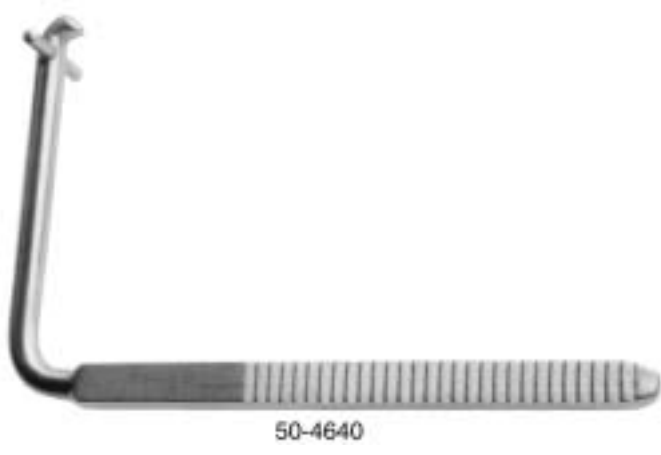
BOOKWALTER Rectal Blades			
	Width	7/8"	
<b>50-4585</b>	Small		
	Length	2 7/8"	(73mm)
<b>50-4586</b>	Large		
	Length	3 7/8"	(98mm)



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



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



# RETRACTORS, TABLE FIXED BOOKWALTER BLADES/ACCESSORIES

GENERAL

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



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



## SCISSORS ABDOMINAL

<b>54-4080</b>	DOYEN Abdominal Scissors, straight,
Length	7" (178mm)



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



# SCISSORS BANDAGE

---



---

	CLASSIC LISTER Bandage Scissor		
<b>34-4013</b>	Length	7½"	(190mm)
	Straight		

---



---

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

---



---

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

---

# SCISSORS DELICATE

---



---

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

---

# SCISSORS DELICATE

GENERAL

**54-5567** DELICATE Scissors, curved with  
dissecting end.  
Length 4<sup>7</sup>/<sub>8</sub>" (124mm)



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



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



**54-4306** DELICATE Operating Scissors  
Length 5<sup>1</sup>/<sub>2</sub>" (140mm)  
Straight  
Sharp/blunt



**34-1076** CLASSIC FINE SCISSORS, CURVED.  
Length 4<sup>1</sup>/<sub>2</sub>" (114mm)



## SCISSORS DELICATE

---



---

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

---



---

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

---



---

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

---

## SCISSORS DISSECTING

---



---

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

---

# SCISSORS DISSECTING

GENERAL

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

	Straight		
<b>36-5050</b>	Length	5½"	(140mm)
<b>36-5051</b>	Length	6¾"	(171mm)
<b>36-5052</b>	Length	9"	(229mm)
	Curved		
<b>36-5060</b>	Length	5½"	(140mm)
<b>36-5061</b>	Length	6¾"	(171mm)
<b>36-5062</b>	Length	9"	(229mm)



CLASSIC MAYO Scissors

	Length	6¾"	(171mm)
<b>34-4490</b>	Straight, Beveled blades		
<b>34-4092</b>	Straight, Round blades		
<b>34-4095</b>	Curved, Beveled blades		
<b>34-4097</b>	Curved, Round blades		
	Length	5½"	(139mm)
<b>34-4088</b>	Straight, Round blades		
<b>34-4098</b>	Straight, Beveled blades		



MAYO Dissecting Scissors, round blades.

	Straight		
<b>54-4088</b>	Length	5¾"	(146mm)
<b>54-4092</b>	Length	6¾"	(171mm)
	Curved		
<b>54-4097</b>	Length	6¾"	(171mm)



# SCISSORS DISSECTING

---




---

MAYO Dissecting Scissors, beveled blades.

	Straight		
<b>54-4098</b>	Length	5½"	(140mm)
<b>54-4090</b>	Length	6¾"	(171mm)
<b>54-5535</b>	Length	9"	(229mm)
	Curved		
<b>54-4099</b>	Length	5½"	(140mm)
<b>54-4095</b>	Length	6¾"	(171mm)
<b>54-2505</b>	Length	9"	(229mm)

---




---

MAYO-NOBLE Dissecting Scissors, beveled blades.

	Length	6¼"	(159mm)
<b>54-4075</b>	Straight		
<b>54-4076</b>	Curved		

---



# SCISSORS DISSECTING

GENERAL

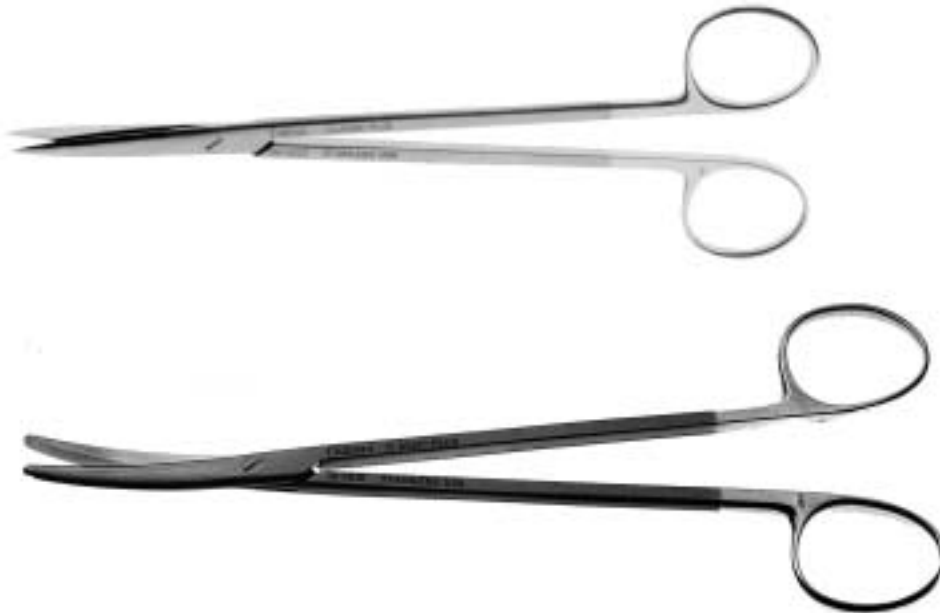


METZENBAUM CLASSIC PLUS® Dissecting  
Scissors, standard, STELLITE™ edge inserts.  
Straight

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

# SCISSORS DISSECTING

---




---

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

<b>36-5020</b>	Sharp/sharp	Length	5¾"	(146mm)
<b>36-5021</b>	Blunt/blunt	Length	5¾"	(146mm)
<b>36-5022</b>	Sharp/sharp	Length	7"	(178mm)
<b>36-5023</b>	Blunt/blunt	Length	7"	(178mm)
<b>36-5024</b>	Sharp/sharp	Length	9"	(229mm)
<b>36-5025</b>	Blunt/blunt	Length	9"	(229mm)
Curved				
<b>36-5030</b>	Sharp/sharp	Length	5¾"	(146mm)
<b>36-5031</b>	Blunt/blunt	Length	5¾"	(146mm)
<b>36-5032</b>	Sharp/sharp	Length	7"	(178mm)
<b>36-5033</b>	Blunt/blunt	Length	7"	(178mm)
<b>36-5034</b>	Sharp/sharp	Length	9"	(229mm)
<b>36-5035</b>	Blunt/blunt	Length	9"	(229mm)

---




---

CLASSIC METZENBAUM Scissors

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

---

# SCISSORS DISSECTING

GENERAL

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



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

# SCISSORS DISSECTING

---



---

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

---



---

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

---

# SCISSORS IRIS

---



---

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

---



---

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

---

# SCISSORS IRIS

GENERAL

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



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



# SCISSORS OPERATING

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



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



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



# SCISSORS OPERATING

---



---

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

---



---

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

---



---

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

---

# SCISSORS SUTURE

---



---

<b>54-4017</b>	LITTAUER Stitch Scissors
Length	5½" (140mm)

---



---

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

---

# SCISSORS SUTURE

GENERAL

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



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



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



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



# SCISSORS SUTURE

---



---

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

---



---

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

---

# SCOOPS

---



---

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

---

# SPECULA, RECTAL

---



---

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

---



# SPECULA, RECTAL

GENERAL

---

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

---



---

# SPONGES

---

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



# SPONGES



81-1010



81-1011



81-1012

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

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

# STRIPPERS, VEIN



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

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

# SUCTION TUBES



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

# SUCTION TUBES

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



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

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

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



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

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

Replacement tips are available through Repair Department.

# SURG-I-BAND TAPE

---



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

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

---

# TRAYS, STERILIZING

---

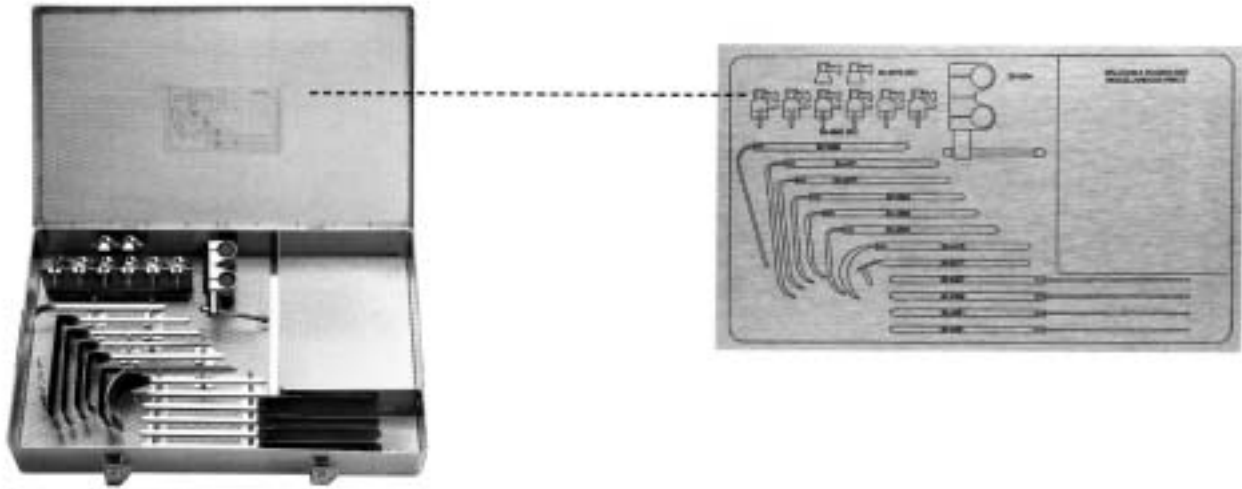


**46-4513** CODMAN Sterilization Case, ULTEM®  
Sterilization Case for the CODMAN Interlaminar  
Clamp Kit, manufactured from a sterilization  
plastic material (ULTEM®) with transparent  
covers.

---

# TRAYS, STERILIZING BOOKWALTER

GENERAL



## BOOKWALTER™ Blades and Accessories Case

Dimensions: 3<sup>1</sup>/<sub>16</sub>" x 13<sup>1</sup>/<sub>8</sub>" x 22<sup>1</sup>/<sub>8</sub>"

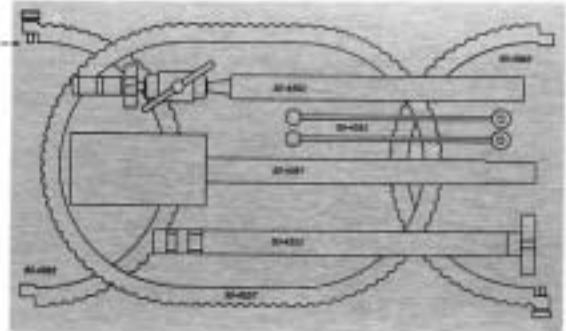
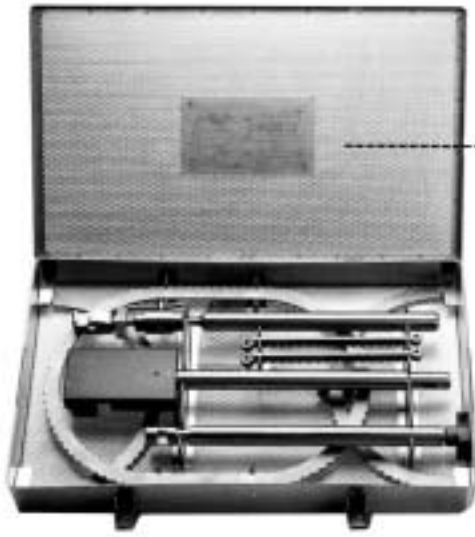
Sterilization: Steam

**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 1<sup>1</sup>/<sub>2</sub> x 6
- 50-4561** (2 ea.) Malleable Blade 2 x 6

# TRAYS, STERILIZING BOOKWALTER

---



---

## BOOKWALTER™ Table Fixation and Ring Case

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

Sterilization: Steam

**50-4507** Designed to hold the following  
BOOKWALTER components:

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

# TRAYS, STERILIZING, STAINLESS STEEL INSTRUMENT

---

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

---

---

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

---



---

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

---



# TRAYS, STERILIZING, STAINLESS STEEL INSTRUMENT HOLDERS

---



---

<b>21-4003</b>	RHODE ISLAND HOSPITAL Instrument Holder
Length	12" (305mm)

---



---

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

---



---

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

---



# TRAYS, STERILIZING, STAINLESS STEEL INSTRUMENT

GENERAL

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



# TRAYS, STERILIZING, STAINLESS STEEL INSTRUMENT

---



---

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

---



---

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

---

# TRAYS, STERILIZING, STAINLESS STEEL KITS

GENERAL

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

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



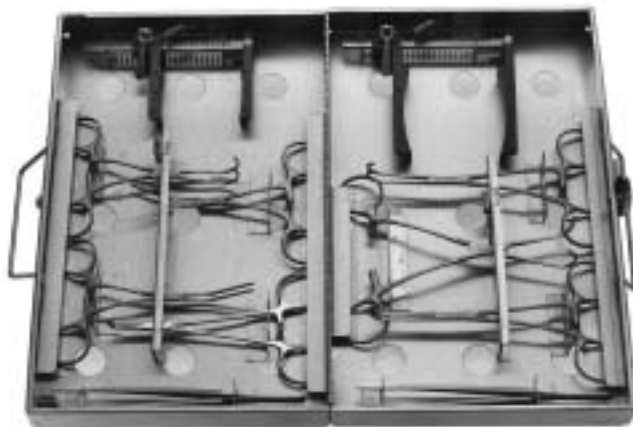
# TRAYS, STERILIZING, STAINLESS STEEL KITS

---



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

---

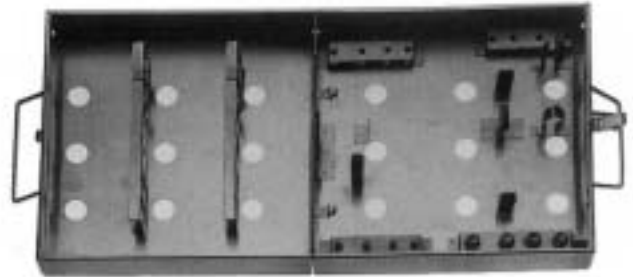


	CODMAN CASTANEDA Kit is a group of instruments specifically designed for infant cardiovascular surgery.		
<b>30-9025</b>	CASTANEDA Kit includes:		
	CASTANEDA Clamps		
	Length	5½"	(130mm)
<b>30-9000</b>	Multi-purpose Clamp, angled 30°.		
<b>30-9001</b>	Multi-purpose Clamp, angled 50°.		
<b>30-9002</b>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

---

# TRAYS, STERILIZING, STAINLESS STEEL KITS

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



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

Kit includes:

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



# TRAYS, STERILIZING, STAINLESS STEEL KITS

---



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



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



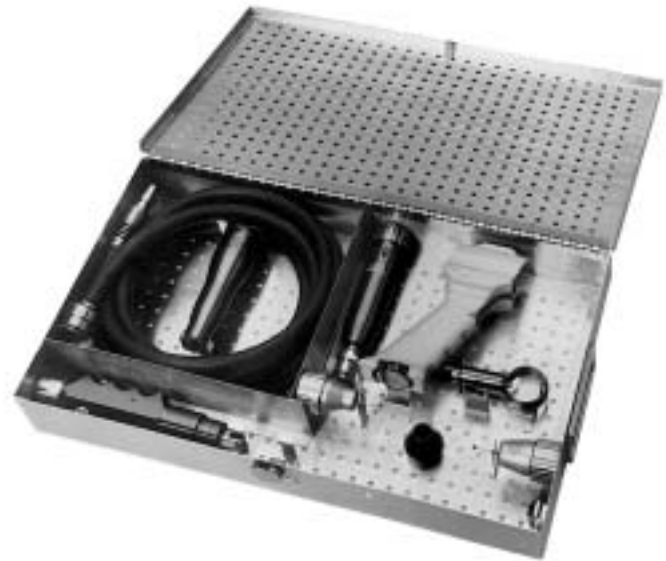
# TRAYS, STERILIZING, STAINLESS STEEL KITS

GENERAL

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



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



# TRAYS, STERILIZING, STAINLESS STEEL KITS

---



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



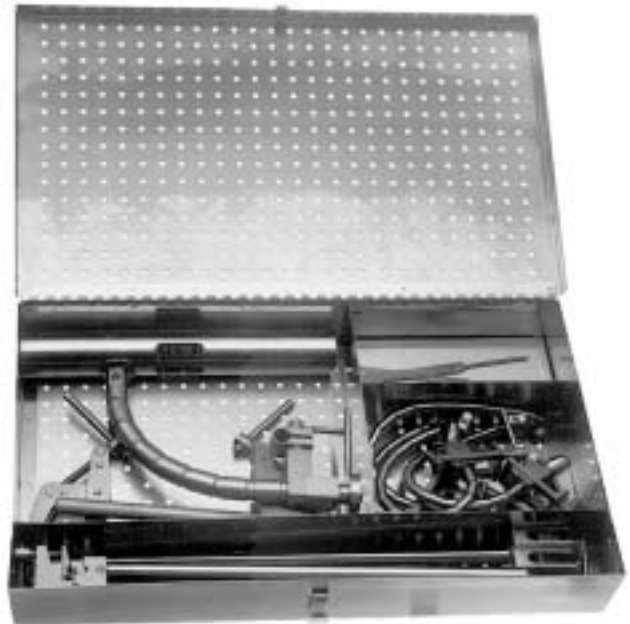
# TRAYS, STERILIZING, STAINLESS STEEL KITS

GENERAL

---

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

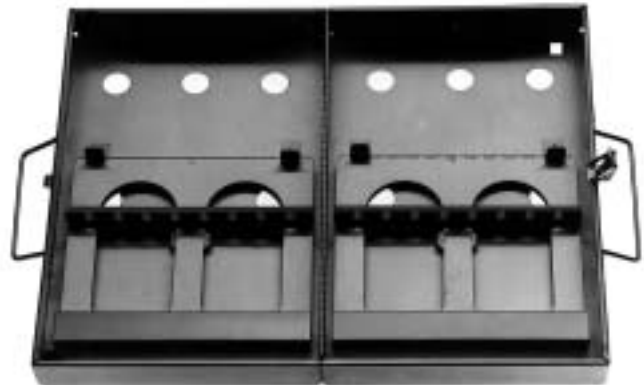
---



---

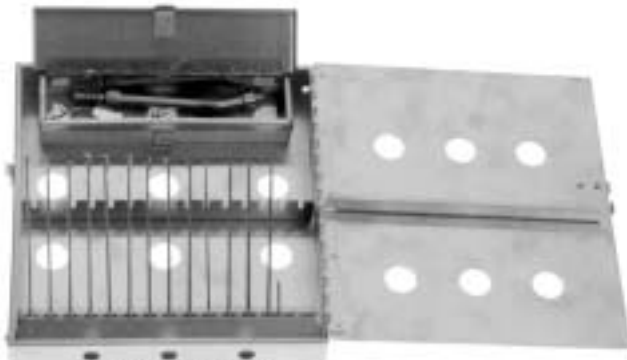
<b>80-1355</b>	HARDY Instrument Case, with removable panels, holds approximately 16 bayonet dissectors. (does not hold bipolar forceps.)	
Length	11"	(279mm)
Width	7"	(178mm)
Depth	2 <sup>1</sup> / <sub>4</sub> "	(57mm)

---



# TRAYS, STERILIZING, STAINLESS STEEL KITS

---

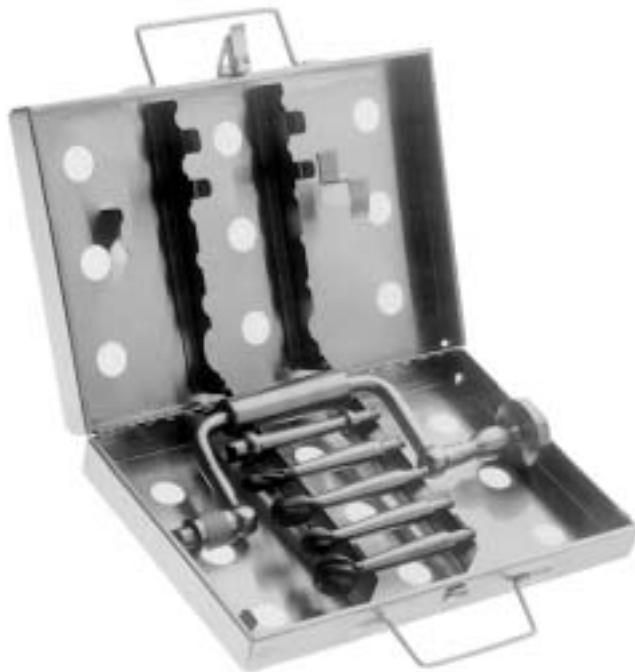


23-1316 case only

---

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

---



---

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

---

# TRAYS, STERILIZING, STAINLESS STEEL KITS

---

GENERAL



---

**80-1818** MICROCARE® Case, with removable clip compartment. Holds approximately 15 straight instruments.

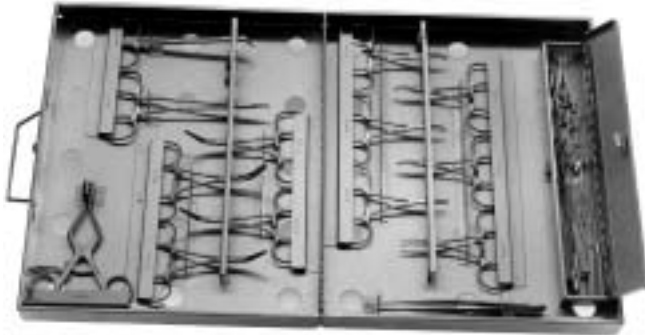
80-1820) MICROVASC™ STA-MCA Instrument Set.

Length	15"	(381mm)
Width	10½"	(267mm)
Depth	1¼"	(32mm)

MICROCARE® cases have a removable lid, extruded silicone rubber bars, hideaway locking handles, and base has nylon-coated pins for extra protection of delicate instruments.

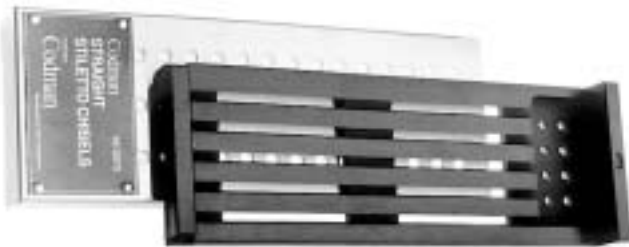
---

# TRAYS, STERILIZING, STAINLESS STEEL KITS



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

# TRAYS, STERILIZING, STAINLESS STEEL MISCELLANEOUS, SPINAL



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

# TRAYS, STERILIZING, STAINLESS STEEL MISCELLANEOUS, SPINAL

---

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

---



---

<b>21-1020</b>	CODMAN Sterilizing and Carrying Case. Holds eight assorted 11" (279mm) gouges or osteotomes. Length 11 $\frac{1}{4}$ " (298mm) Width 8 $\frac{7}{8}$ " (225mm) Depth (on each side) 1 $\frac{1}{4}$ " (32mm)
----------------	---

---



# TRAYS, STERILIZING, STAINLESS STEEL MISCELLANEOUS, SPINAL

---




---

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

---




---

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

---

# TRAYS, STERILIZING, STAINLESS STEEL MISCELLANEOUS, SPINAL

GENERAL

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

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



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

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



# TRAYS, STERILIZING, STAINLESS STEEL MISCELLANEOUS, SPINAL

---



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

**46-3003** Sterilizing O.R. Display Case

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

**46-3006** Annular Dissector Perforator

**46-3007** Offset Central Canal Impactor

**46-3009** Lateral Gutter Impactor

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

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

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

or:

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

Length: 10" (25cm)

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

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

---



# TRAYS, STERILIZING, LIGHTWEIGHT CABLES/CORDS

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

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

ULTEM™ is a trademark of General Electric.



# TRAYS, STERILIZING, LIGHTWEIGHT INSTRUMENTS

	CODMAN's Micro Osseous Dissection Kit is designed for the microsurgical removal of bony, calcified or other firm tissues. These instruments can be used in conjunction with a high speed drill to thin bone before removal.
<b>46-2600</b>	Micro Osseous Dissection Kit Includes: Working Distance: 2¾" (70mm)
<b>46-2601</b>	Micro Rongeur, Bayonet, 40° Up-Bite, 1mm
<b>46-2602</b>	Micro Rongeur, Bayonet, 40° Up-Bite, 2mm
<b>46-2603</b>	Micro Rongeur, Bayonet, 40° Up-Bite, 3mm Working Distance: 3" (76mm)
<b>46-2604</b>	Micro Curette, Bayonet, Straight 00
<b>46-2605</b>	Micro Curette, Bayonet, Straight 000
<b>46-2606</b>	Micro Curette, Bayonet, Straight 0000
<b>46-2607</b>	Micro Curette, Bayonet, 45° Up 00
<b>46-2608</b>	Micro Curette, Bayonet, 45° Up 000
<b>46-2609</b>	Micro Curette, Bayonet, 45° Up 0000
<b>46-2610</b>	Micro Curette, Bayonet, 80° Down 00
<b>46-2611</b>	Micro Curette, Bayonet, 80° Down 000
<b>46-2612</b>	Micro Curette, Bayonet, 80° Down 0000
<b>46-2613</b>	ULTEM® Sterilizing Case for 46-2600



# TRAYS, STERILIZING, LIGHTWEIGHT INSTRUMENTS

---



---

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

---



---

<b>80-1568</b>	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.

---



---

<b>80-1566</b>	MICROCARE™ Large Polytec Case, manufactured from a sterilizable plastic material (ULTEM*), with a transparent cover. Includes 20 cradle areas for straight instruments only, three cradle areas for glass rods, also holds two bipolar forceps.		
Length	21"	(533mm)	
Width	13"	(330mm)	
Depth	1¾"	(44mm)	
	MICROCARE™ Polytec Cases have silicone bumpers for instrument tip protection.		

---

ULTEM™ is a trademark of General Electric.

---

# TRAYS, STERILIZING, LIGHTWEIGHT INSTRUMENTS

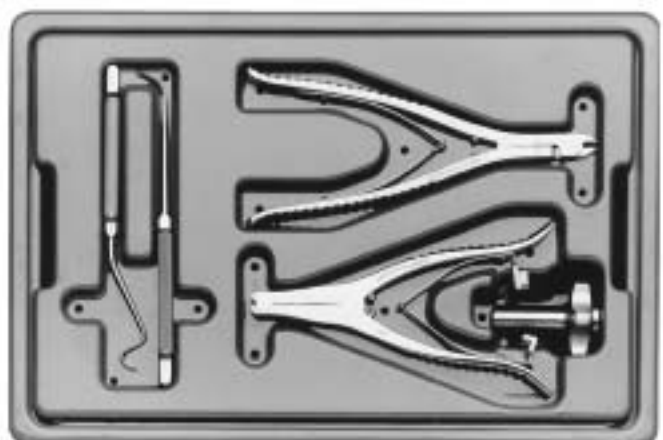
- 80-1865** CODMAN I.M.A. Instrument Case  
Two levels for storage. Top tray holds CODMAN I.M.A. kit 80-1849/80-1850, bottom compartment for miscellaneous instruments.



- 80-1914** MICROCARE Universal Bayonet Instrument Case.  
Lightweight, ULTEM\* for sterilization and storage. Contains 14 slots for bayonet instruments; separate tray for 3 bayonet dissectors; space around perimeter of case for straight instruments or other surgical devices.
- |        |      |        |
|--------|------|--------|
| Length | 21"  | (53cm) |
| Width  | 13"  | (33cm) |
| Depth  | 1.5" | (4cm)  |



- 46-4011** CODMAN SOF'WIRE Cable Instrument Tray  
For storage/sterilization.



# TRAYS, STERILIZING, LIGHTWEIGHT SMALL DEVICES

---



MICROCARE<sup>®</sup> 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<sup>\*</sup>), with a transparent cover.

- 80-1580** MICROCARE<sup>®</sup> CIS Large Set, with base tray, four smaller clip trays (20 compartments each), and four reusable inventory cards. Base tray holds up to eight applicators. Includes: MICROCARE<sup>®</sup> 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<sup>®</sup> Large Base Tray, with cover, holds four 20 compartment trays, and up to eight applicators.

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

- 80-1595** MICROCARE<sup>®</sup> Small Base Tray, with cover, holds two 20 compartment trays, and up to four applicators.

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

---

\*ULTEM<sup>™</sup> is a trademark of General Electric.

# TRAYS, STERILIZING, LIGHTWEIGHT SMALL DEVICES

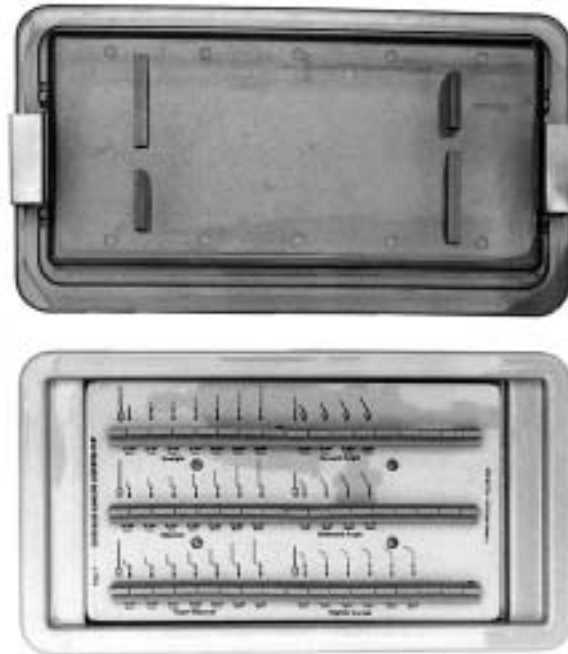
MICROCARE® Polytec Cases with Flexible Insert, manufactured from a sterilizable plastic material (ULTEM\*) with transparent covers. Flexible silicone finger inserts provide instrument protection.

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



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

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



# TRAYS, STERILIZING, LIGHTWEIGHT SMALL DEVICES

---



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

---



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

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

---



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

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

---

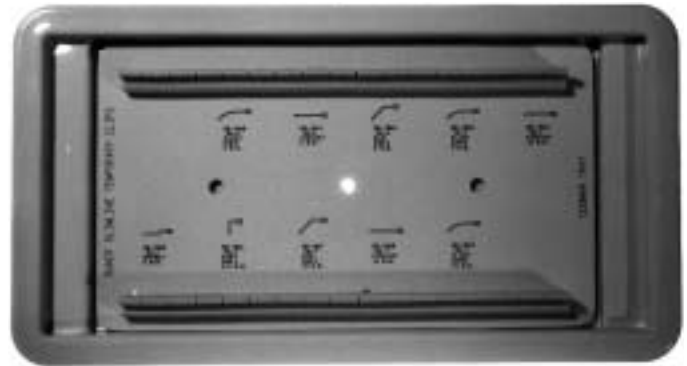




# TRAYS, STERILIZING, LIGHTWEIGHT SMALL DEVICES

GENERAL

- 80-1845** SUNDT SLIM-LINE Temporary Clip Tray  
Sterilizing/storage tray made of lightweight ULTEM®. Contains soft rubber bars to hold individual clips. Code numbers and drawings of clips appear on bottom of tray. Rubber holders on cover secure applicators.
- |        |     |         |
|--------|-----|---------|
| Length | 11" | (28cm)  |
| Width  | 7"  | (18cm)  |
| Depth  | 1¾" | (4.5cm) |



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



# TROCARS

---




---

<b>71-4038</b>	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	
<b>71-4021</b>	Catheter	10 Fr.
	Trocar	14 Fr.
	Length	6⅛" (156mm)
<b>71-4025</b>	Catheter	16 Fr.
	Trocar	20 Fr.
	Length	6¼" (159mm)

---



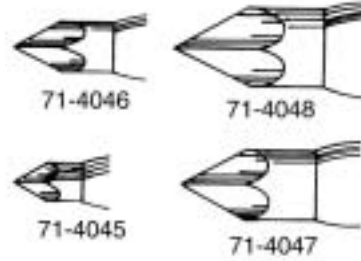
# TROCARS

GENERAL

---

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

---



---

# VICE GRIPS

---

---

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

---



# NEEDLE HOLDER SUTURE CHART

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

# NEEDLE HOLDER SUTURE CHART

GENERAL

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



# APPROXIMATOR

---

<b>50-8056</b>	LEMMON Sternal Approximator, adult size with prongs.
Prong depth	1 <sup>1</sup> / <sub>16</sub> " (27mm)
Total opening	5" (127mm)
Total length	7 <sup>1</sup> / <sub>8</sub> " (181mm)

---



# CLAMPS AORTA

---

<b>37-1272</b>	BECK CLASSIC™ Miniature Aorta Clamp, 1x2 vascular teeth.
Jaw length	1 <sup>1</sup> / <sub>8</sub> " (29mm)
Jaw depth	5 <sup>5</sup> / <sub>16</sub> " (7mm)
Total length	6 <sup>1</sup> / <sub>4</sub> " (159mm)

---



---

<b>37-4010</b>	CODMAN Clamp, aortic cross-clamp, angled jaws, curved handles. Requires 61mm jaw inserts.
Length	8 <sup>1</sup> / <sub>2</sub> " (21.6cm)

---

CARDIO-VASCULAR/  
THORACIC

# CLAMPS AORTA

---



---

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

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

---



---

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

Jaw length	2 <sup>3</sup> / <sub>8</sub> "	(60mm)
Total length	10"	(254mm)

---



---

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

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

---

# CLAMPS AORTA

---

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

---



CARDIO-VASCULAR/  
THORACIC

---

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

---



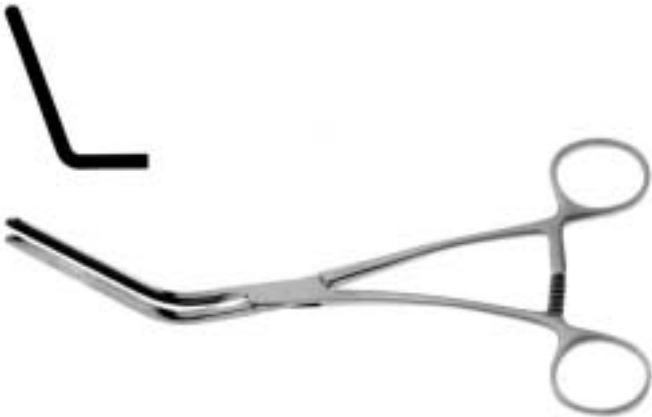
---

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

---



# CLAMPS AORTA



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



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



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



# CLAMPS AORTA

---

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

---



CARDIO-VASCULAR/  
THORACIC

---

# CLAMPS AORTIC ANEURYSM

---

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

---



# CLAMPS AORTIC EXCLUSION

---



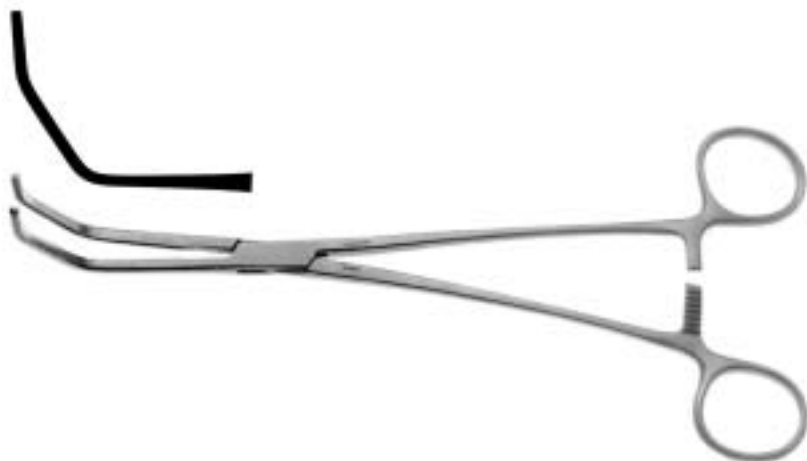
---

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

---

# CLAMPS AURICLE

---



---

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

---

## CLAMPS A-V FISTULA

---

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

---



CARDIO-VASCULAR/  
THORACIC

## CLAMPS BRONCHUS

---

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

---



# CLAMPS BRONCHUS

---




---

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

---

# CLAMPS BULLDOG

---




---

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

---

# CLAMPS BULLDOG

CARDIO-VASCULAR/  
THORACIC

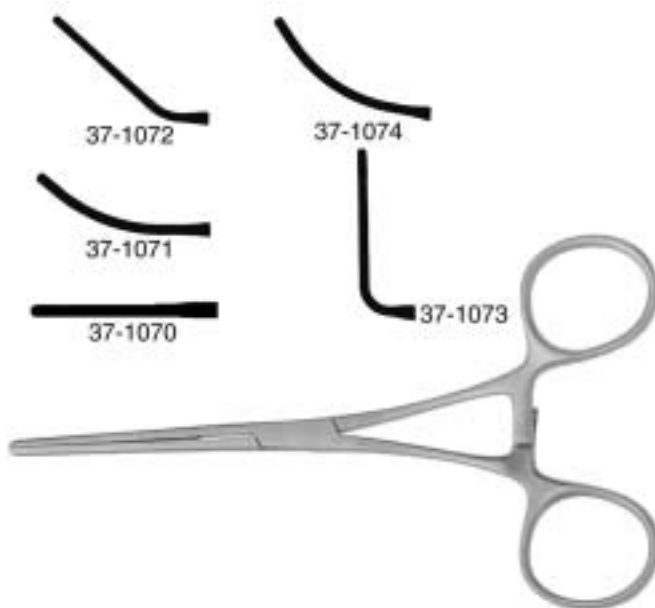
DeBAKEY CLASSIC™ Bulldog Clamps, cross-action, 1x2 vascular teeth.

	Tension	6 lbs.	(2.7kg)
	Straight		
37-1040	Jaw length	3/4"	(20mm)
	Total length	3 1/8"	(79mm)
37-1041	Jaw length	1 1/4"	(30mm)
	Total length	3 1/2"	(89mm)
37-1042	Jaw length	1 3/4"	(45mm)
	Total length	4 1/8"	(105mm)
37-1043	Jaw length	2 1/2"	(65mm)
	Total length	5"	(127mm)
	Curved		
37-1044	Jaw length	3/4"	(20mm)
	Total length	3"	(76mm)
37-1045	Jaw length	1 3/16"	(30mm)
	Total length	3 3/8"	(86mm)
37-1046	Jaw length	1 3/4"	(45mm)
	Total length	4 1/8"	(105mm)
37-1047	Jaw length	2 1/2"	(65mm)
	Total length	4 3/4"	(121mm)



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

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



# CLAMPS BULLDOG



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



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



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

# CLAMPS BULLDOG

CARDIO-VASCULAR/  
THORACIC

GLOVER CLASSIC™ Bulldog Clamps, 1x2  
vascular teeth.

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



GREGORY CLASSIC™ Bulldog Clamps, 1x2  
vascular teeth.

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



JACOBSON Bulldog Clamps,  
serrated jaw (2.1cm).

	Length	1 <sup>3</sup> / <sub>4</sub> "	(4.5cm)
<b>37-4021</b>	Curved		
<b>37-4023</b>	Straight		



# CLAMPS BULLDOG




---

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

---



---

	WELDON Miniature Bulldog Clamps, serrated jaws.	
<b>37-4022</b>	Straight	
	Jaw length, 1.3cm	
	Length	$1\frac{3}{8}$ " (3.4cm)
<b>37-4026</b>	Curved	
	Jaw length, 1.8cm	
	Length	1 $\frac{1}{4}$ " (3.2cm)

---



# CLAMPS CARDIOVASCULAR

CARDIO-VASCULAR/  
THORACIC



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

For aortic aneurysms and pulmonary gastrointestinal procedures.

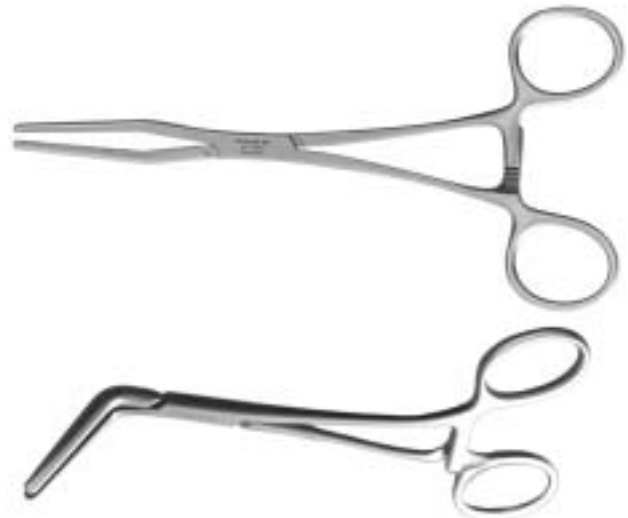
- 37-4009** CODMAN Clamp, similar to FOGARTY\* Hydragrip®. Angled jaws, curved handles. Requires 86mm jaw inserts.  
Length 9¼" (23.5cm)

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

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

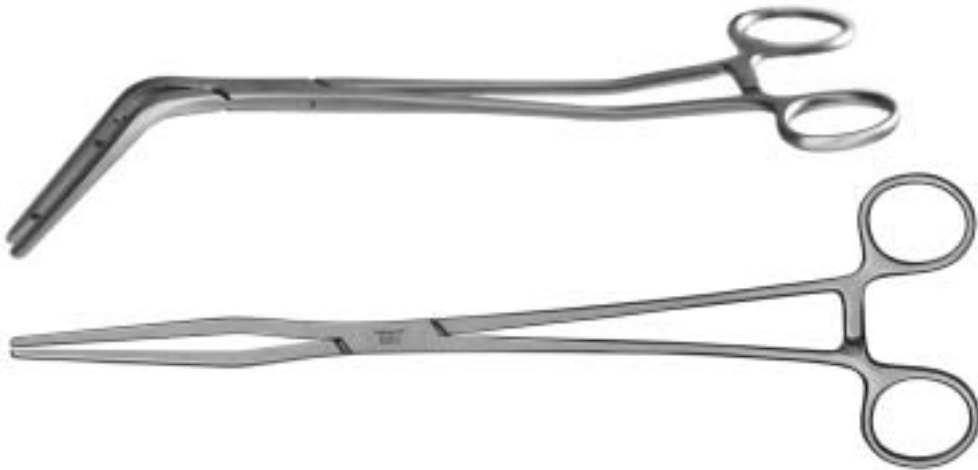
- 37-4014** Straight  
Length 6½" (16.5cm)  
**37-4015** Angled jaw  
Length 4⅝" (11.8cm)

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



# CLAMPS CARDIOVASCULAR

---




---

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

---

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

---




---

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

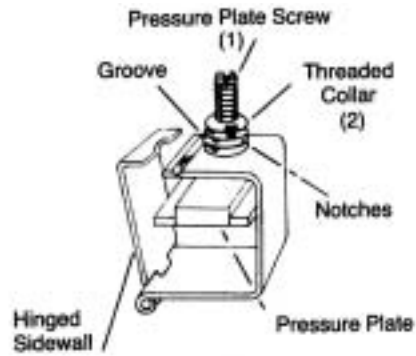
---

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

---

# CLAMPS CAROTID ARTERY

**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.



19-1014

**20-5020** SALIBI Carotid Artery Clamp Tools



20-5020



(3)



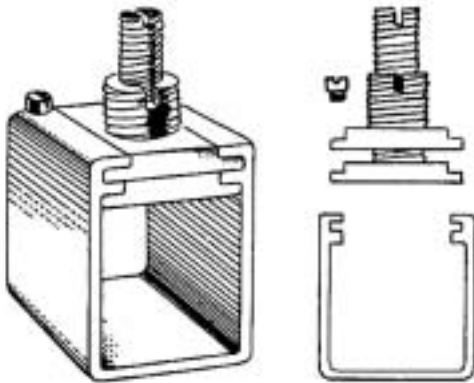
(4)

JAVID Carotid Artery Bypass Clamps, angled jaws.

<b>37-4019</b>	Length	7"	(17.8cm)
	6mm ring		
<b>37-4020</b>	Length	6¼"	(15.9cm)
	4mm ring		



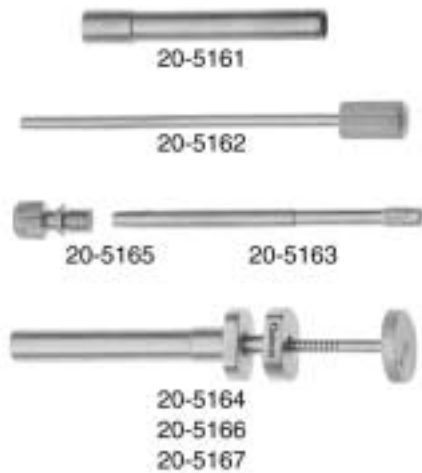
# CLAMPS CAROTID ARTERY



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

<b>19-1000</b>	Standard	Width	7.5mm
		Opening	6mm
<b>19-1003</b>	Large	Width	9.5mm
		Opening	8.5mm

316L Stainless Steel



SELVERSTONE Carotid Artery Clamp Tools

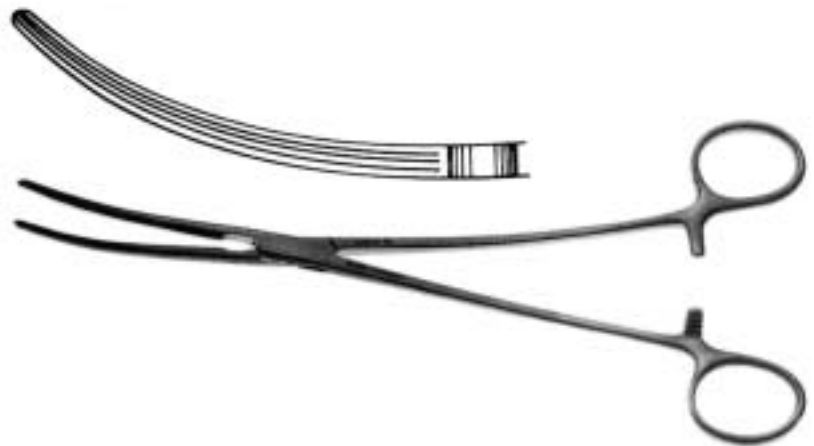
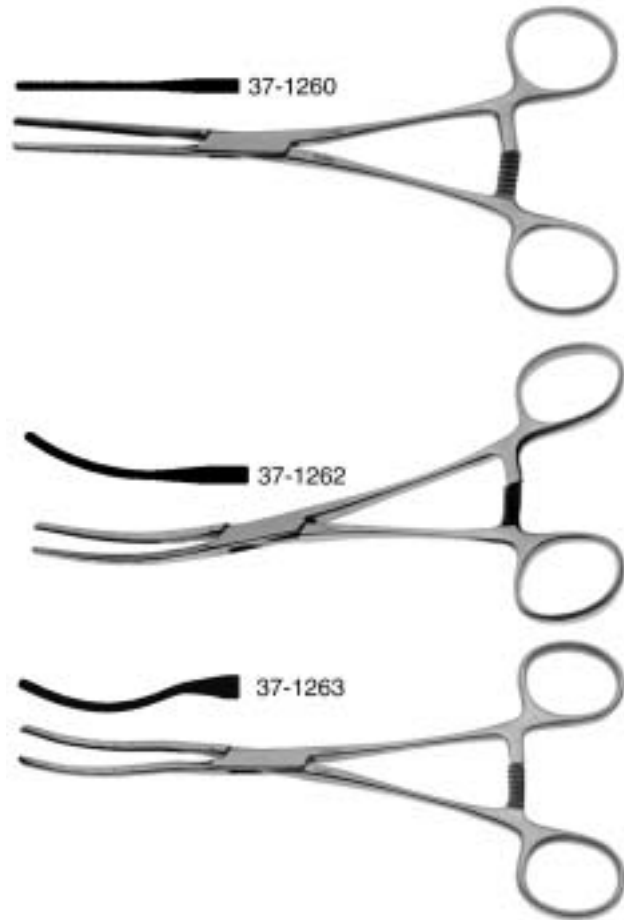
- 20-5160** Complete set which includes:
- 20-5161** Threaded Tube, to manipulate the pressure-plate assembly
  - 20-5162** Screw Driver, for loosening or tightening set screw
  - 20-5163** Screw Holder, to remove or to start the set screw
  - 20-5164** Stem, screws onto outer thread of the pressure-plate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

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

# CLAMPS COARCTATION

CARDIO-VASCULAR/  
THORACIC

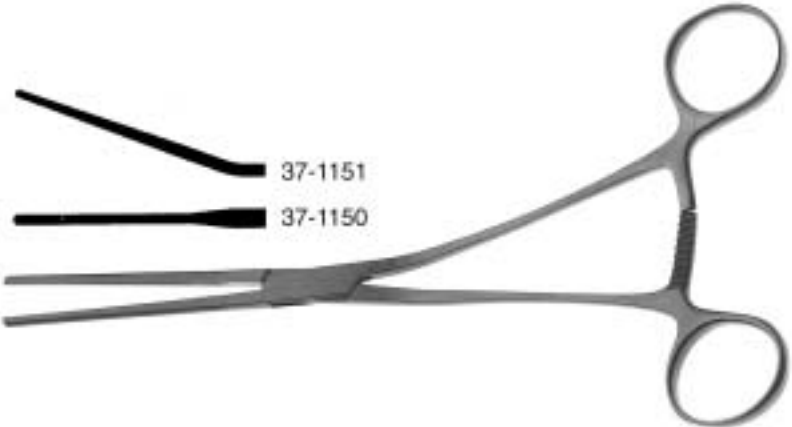
COOLEY CLASSIC™ Coarctation Clamps, calibrated jaws, 2x2 vascular teeth.			
<b>37-1260</b>	Straight jaws, straight shafts		
	Jaw length	1 <sup>5</sup> / <sub>8</sub> "	(40mm)
	Total length	6 <sup>3</sup> / <sub>4</sub> "	(171mm)
<b>37-1261</b>	Straight jaws, angled shafts		
	Jaw length	1 <sup>5</sup>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



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

# CLAMPS COARCTATION

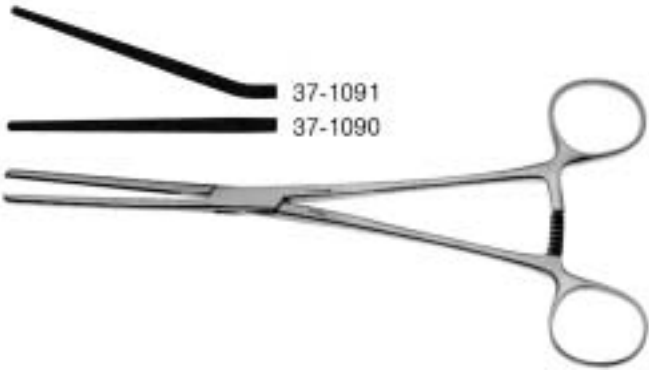
---




---

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

---




---

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

---

# CLAMPS CRILE

---

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

---

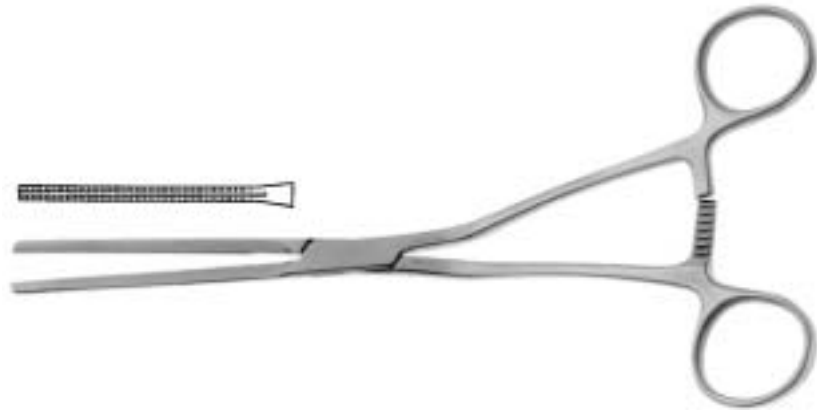


# CLAMPS ILIAC

---

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

---



CARDIO-VASCULAR/  
THORACIC

# CLAMPS LIGATURE CARRYING

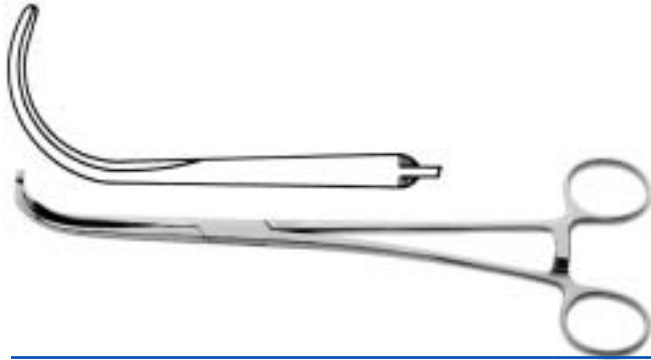
---



---

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

---



---

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

---

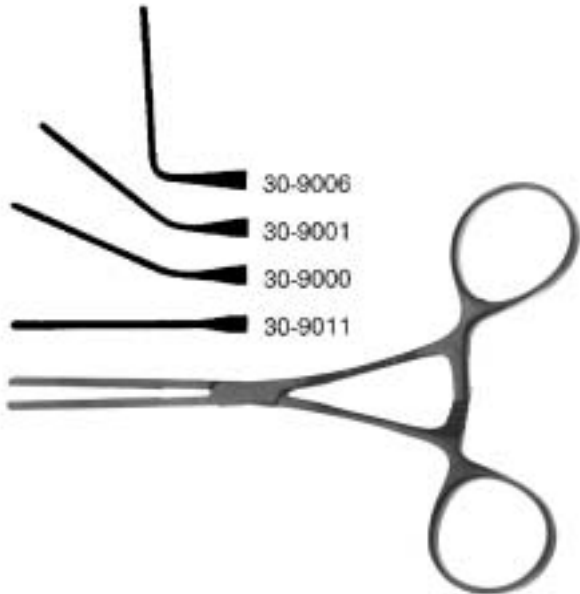


# CLAMPS MULTI-PURPOSE

CARDIO-VASCULAR/  
THORACIC

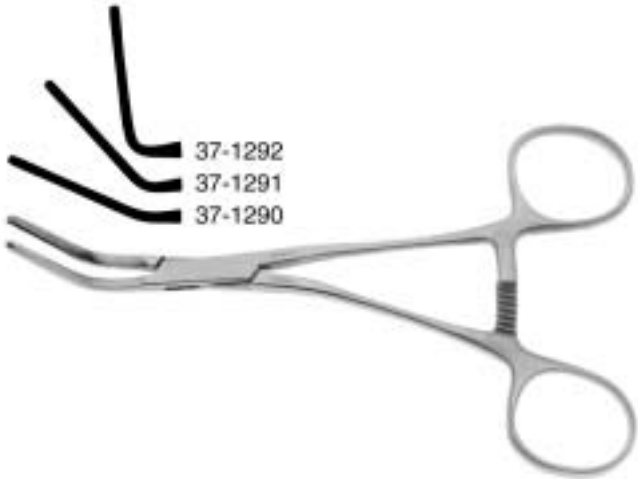
**CASTANEDA Multi-Purpose Clamps**

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



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

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

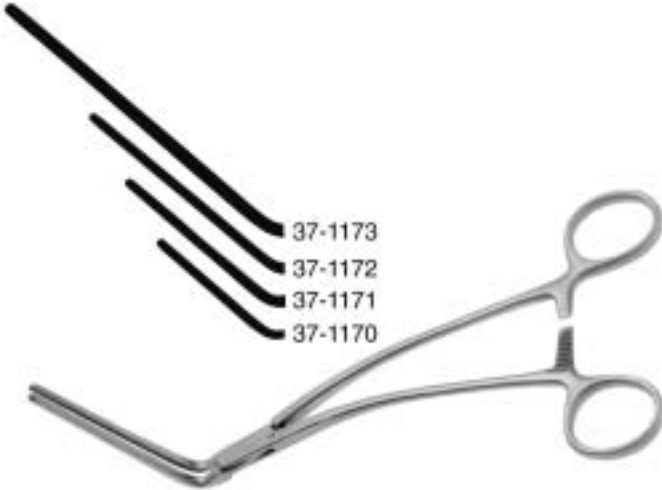


# CLAMPS MULTI-PURPOSE



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

<b>37-1320</b>	30° angle		
	Jaw length	1 $\frac{3}{8}$ "	(35mm)
	Total length	6 $\frac{1}{2}$ "	(165mm)
<b>37-1321</b>	60° angle		
	Jaw length	1 $\frac{3}{8}$ "	(35mm)
	Total length	6"	(152mm)
<b>37-1322</b>	90° angle		
	Jaw length	1 $\frac{3}{8}$ "	(35mm)
	Total length	6"	(152mm)



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

<b>37-1170</b>	Jaw length	1 $\frac{5}{8}$ "	(40mm)
	Total length	9 $\frac{5}{8}$ "	(244mm)
<b>37-1171</b>	Jaw length	2"	(50mm)
	Total length	8"	(203mm)
<b>37-1172</b>	Jaw length	2 $\frac{3}{4}$ "	(70mm)
	Total length	9 $\frac{1}{2}$ "	(241mm)
<b>37-1173</b>	Jaw length	4"	(100mm)
	Total length	12"	(305mm)

# CLAMPS MULTI-PURPOSE



CARDIO-VASCULAR/  
THORACIC

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

<b>37-1180</b>	Jaw length	1 $\frac{5}{8}$ "	(40mm)
	Total length	8 $\frac{3}{4}$ "	(222mm)
<b>37-1181</b>	Jaw length	2"	(50mm)
	Total length	7"	(178mm)
<b>37-1182</b>	Jaw length	2 $\frac{3}{4}$ "	(70mm)
	Total length	8 $\frac{1}{2}$ "	(216mm)
<b>37-1183</b>	Jaw length	4"	(100mm)
	Total length	10 $\frac{1}{2}$ "	(267mm)

# CLAMPS PATENT DUCTUS

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

<b>37-1250</b>	Straight shaft		
	Jaw length	1 $\frac{3}{16}$ "	(30mm)
	Total length	6 $\frac{1}{4}$ "	(159mm)
<b>37-1251</b>	Angular shaft		
	Jaw length	1 $\frac{3}{16}$ "	(30mm)
	Total length	6 $\frac{1}{4}$ "	(159mm)



# CLAMPS PATENT DUCTUS

---



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

---



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

---

# CLAMPS PERIPHERAL VASCULAR

---



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

---

# CLAMPS PERIPHERAL VASCULAR

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



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



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



# CLAMPS RENAL ARTERY

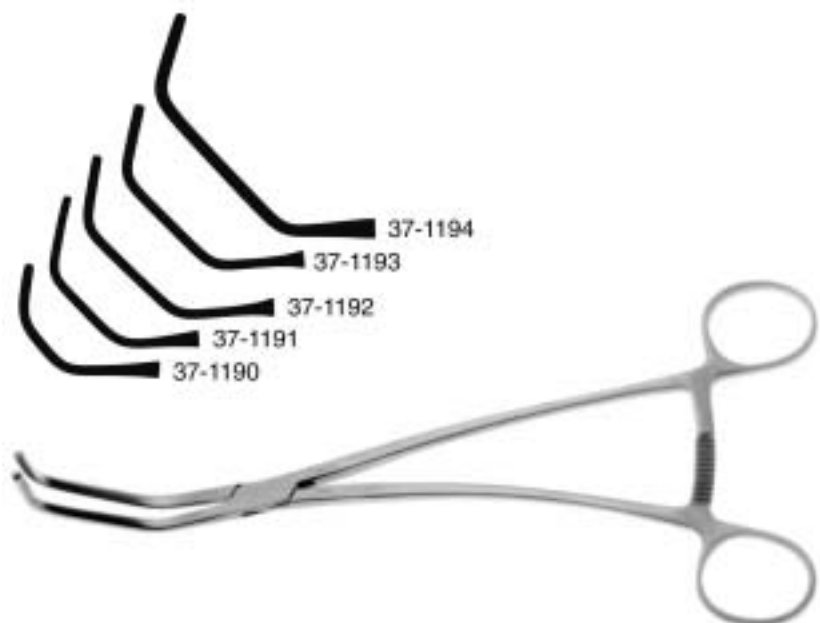
CLASSIC Renal Artery Clamps, blades calibrated at 5mm intervals, curved shafts, 2x2 vascular teeth.  
**37-1240** Jaw length 5/8" (15mm)  
 Total length 7 1/4" (185mm)  
**37-1241** Jaw length 1" (25mm)  
 Total Length 7 11/16" (195mm)  
**37-1242** Jaw length 1" (25mm)  
 Total length 10 5/8" (270mm)



CARDIO-VASCULAR/  
THORACIC

# CLAMPS TANGENTIAL OCCLUSION

---




---

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

---

# CLAMPS TUBING

CARDIO-VASCULAR/  
THORACIC



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

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



# CLAMPS VASCULAR

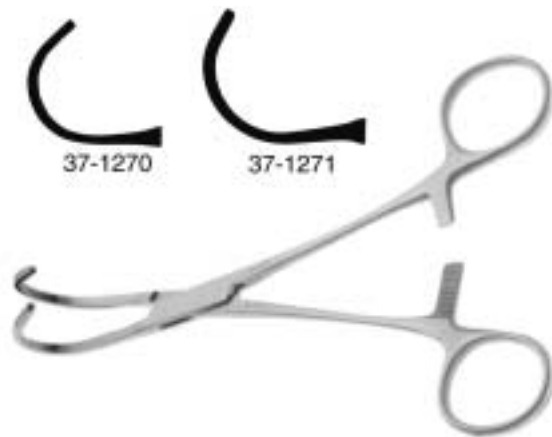
<b>37-1225</b>	Anastomosis CLASSIC Clamp, blades calibrated at 5mm intervals, 2x2 vascular teeth.		
	Jaw length	1 5/8"	(40mm)
	Jaw depth	3/4"	(20mm)
	Total length	6 1/2"	(165mm)



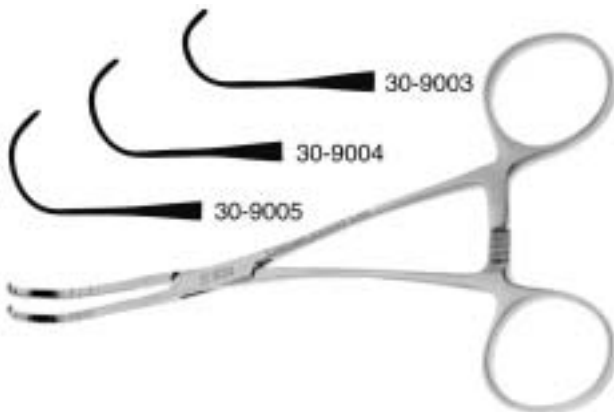
# CLAMPS VASCULAR



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



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



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



# CLAMPS VASCULAR

---

<b>30-9002</b>	CASTANEDA Partial Occlusion Clamp, spoon-type.		
	Jaw length	15/16"	(24mm)
	Jaw depth	5/16"	(8mm)
	Total length	43/4"	(121mm)

---

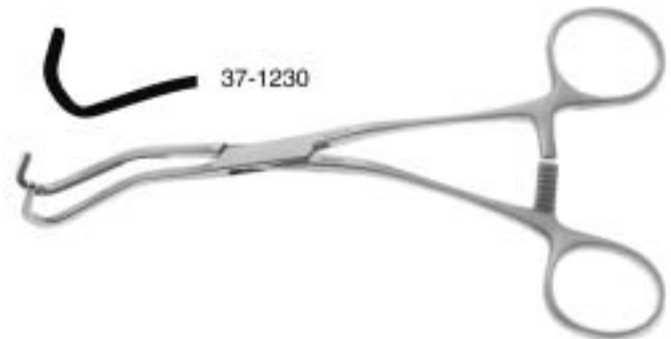
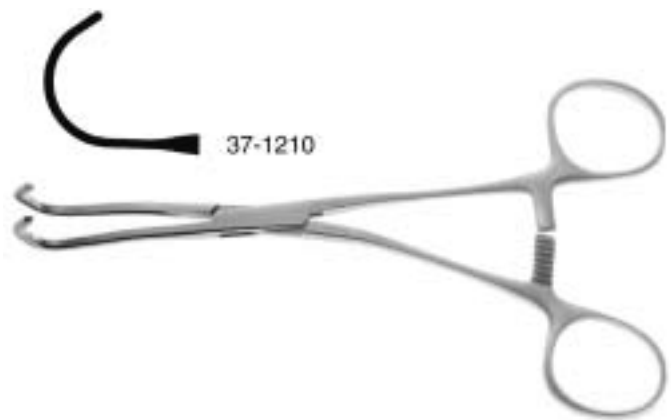


CARDIO-VASCULAR/  
THORACIC

---

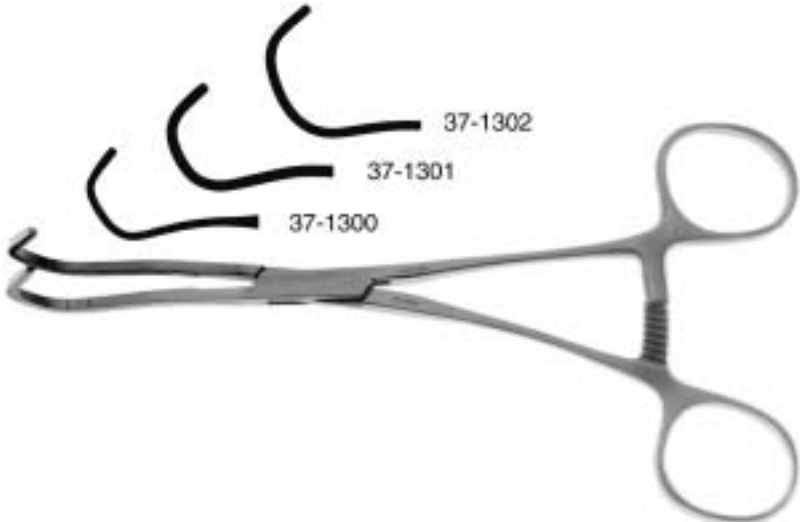
	COOLEY CLASSIC Anastomosis Clamps, blades calibrated at 5mm intervals, 2x2 vascular teeth.		
	Jaw length	3/4"	(20mm)
	Jaw depth	1/4"	(6mm)
	Total length	61/2"	(165mm)
<b>37-1210</b>	Standard		
<b>37-1230</b>	Modified, 30° side angle		

---



# CLAMPS VASCULAR

---




---

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

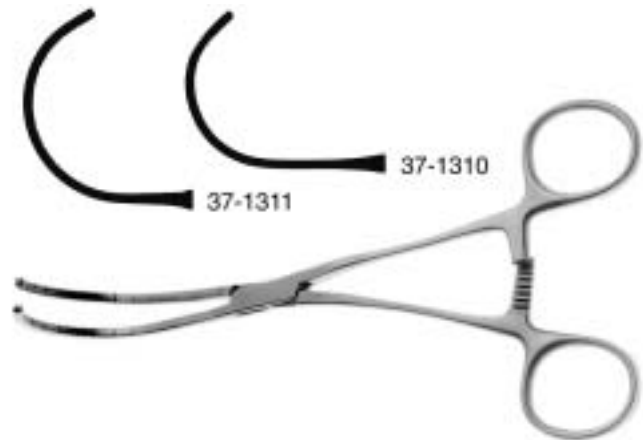
<b>37-1300</b>	Small		
	Jaw length	1"	(25mm)
	Jaw depth	1/2"	(12mm)
	Total length	6 1/2"	(165mm)
<b>37-1301</b>	Medium		
	Jaw length	1 1/2"	(38mm)
	Jaw depth	1/2"	(12mm)
	Total length	6 3/4"	(171mm)
<b>37-1302</b>	Large		
	Jaw length	1 3/4"	(45mm)
	Jaw depth	1/2"	(12mm)
	Total length	7"	(178mm)

---

# CLAMPS VASCULAR

CARDIO-VASCULAR/  
THORACIC

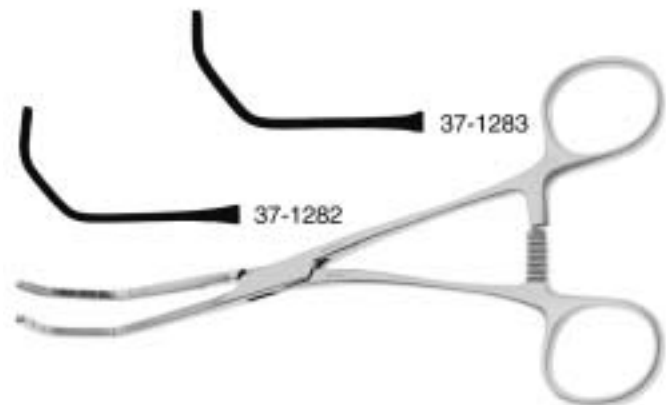
	COOLEY CLASSIC Acutely Curved Clamps, blades calibrated at 5mm intervals, 2x2 vascular teeth.		
<b>37-1310</b>	Medium		
	Jaw length	1 $\frac{9}{16}$ "	(38mm)
	Jaw depth	$\frac{5}{8}$ "	(15mm)
	Total length	6 $\frac{1}{2}$ "	(165mm)
<b>37-1311</b>	Large		
	Jaw length	1 $\frac{3}{4}$ "	(45mm)
	Jaw depth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



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



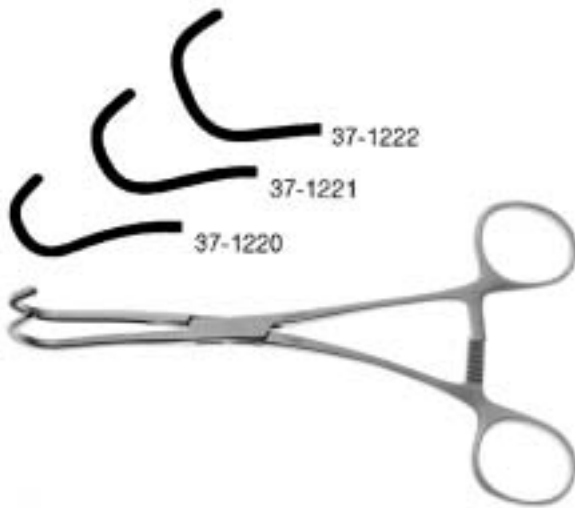
	COOLEY CLASSIC Vascular Clamps, blades calibrated at 5mm intervals, 2x2 vascular teeth.		
<b>37-1282</b>	60° angle, small		
	Jaw length	1"	(25mm)
	Jaw depth	$\frac{5}{16}$ "	(7mm)
	Total length	6 $\frac{3}{4}$ "	(171mm)
<b>37-1283</b>	60° angle, large		
	Jaw length	2"	(51mm)
	Jaw depth	$\frac{5}{16}$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



# CLAMPS VASCULAR



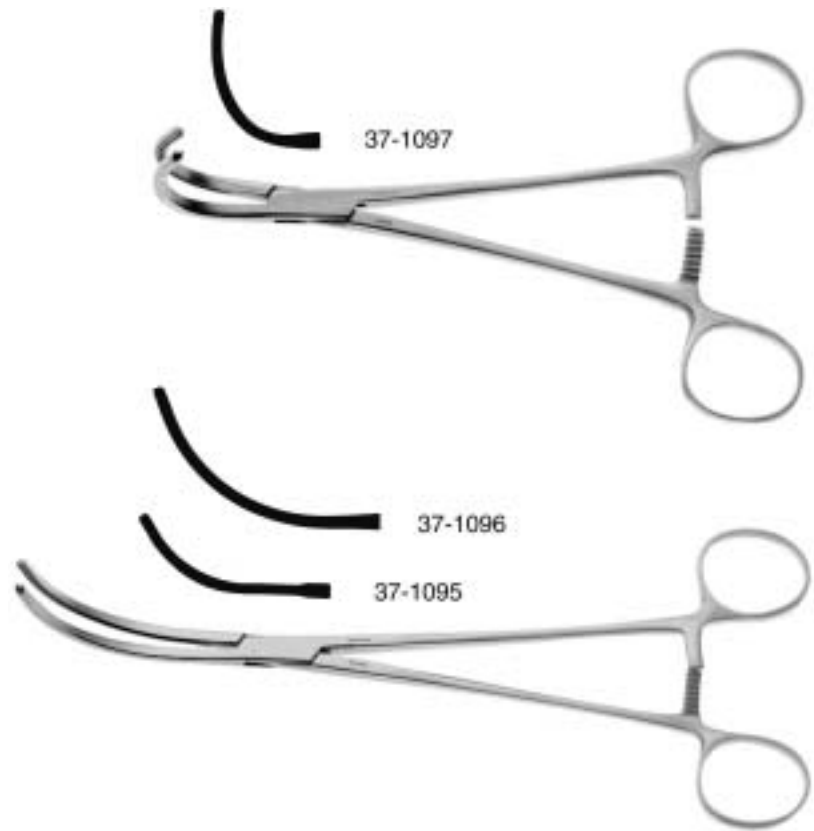
DeBAKEY CLASSIC Vascular Clamps, acutely curved, 1x2 vascular teeth.			
<b>37-1130</b>	Jaw length	2"	(50mm)
	Jaw depth	3/8"	(10mm)
	Total length	9 1/2"	(241mm)
<b>37-1131</b>	Jaw length	2 3/4"	(70mm)
	Jaw depth	1"	(25mm)
	Total length	10 1/2"	(267mm)



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

# CLAMPS VASCULAR

CARDIO-VASCULAR/  
THORACIC



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

# CLAMPS VASCULAR

---



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

---



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

---



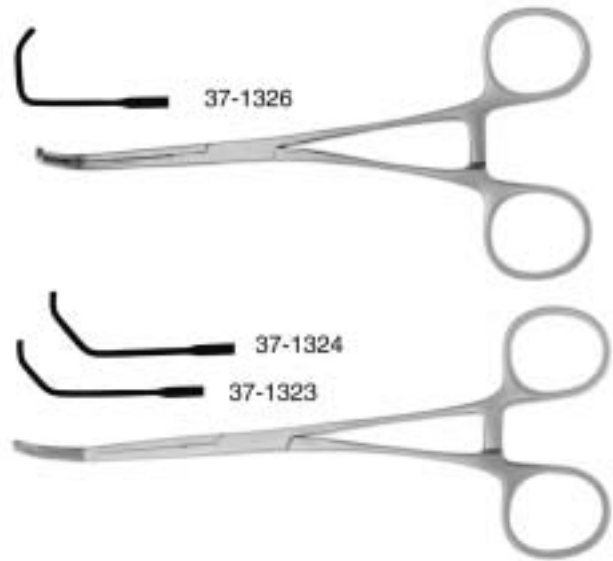
<b>37-1030</b> LEES CLASSIC Right Angle Clamp, 1x2 vascular teeth.			
	Jaw length	1 $\frac{5}{8}$ "	(40mm)
	Total length	8 $\frac{1}{2}$ "	(216mm)

---

# CLAMPS VASCULAR

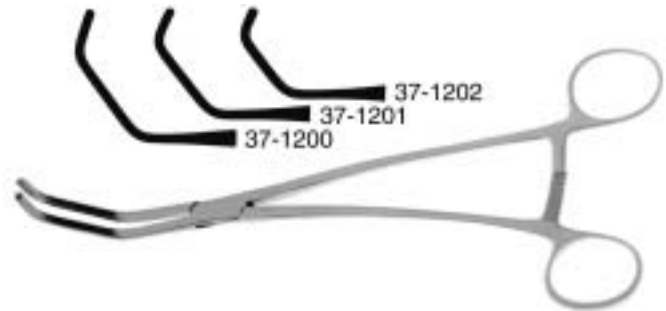
CARDIO-VASCULAR/  
THORACIC

REYNOLDS CLASSIC™ Vascular Clamps, 1x2 vascular teeth.			
<b>37-1323</b>	50° angle		
	Jaw length	1"	(25mm)
	Jaw depth	3/16"	(5mm)
	Total length	7"	(178mm)
<b>37-1324</b>	50° angle		
	Jaw length	1 3/16"	(30mm)
	Jaw depth	3/16"	(5mm)
	Total length	7"	(178mm)
<b>37-1326</b>	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.			
<b>37-1200</b>	Jaw length	2 3/4"	(68mm)
	Jaw depth	1/2"	(12mm)
	Total length	9 1/2"	(241mm)
<b>37-1201</b>	Jaw length	2 1/2"	(63mm)
	Jaw depth	3/8"	(9mm)
	Total length	9 1/2"	(241mm)
<b>37-1202</b>	Jaw length	2 1/4"	(57mm)
	Jaw depth	1/4"	(6mm)
	Total length	9 1/2"	(241mm)



# CLIPS SPRING



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

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

# CONTRACTORS



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



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

# DISSECTORS



LEMMON Intima Dissectors

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

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

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



# DILATORS MITRAL

---

<b>25-8009</b>	MYOCARDIAL Dilator, with 2mm tip width graduated to 17.5mm.
Length	5¾" (146mm)

---



# DILATORS VASCULAR

CARDIO-VASCULAR/  
THORACIC

---

	GARRETT Vascular Dilators, malleable shaft.
	Length 5½" (140mm)
<b>25-8035</b>	Set of nine in 21-8005 case.
	Diameter (1 to 5mm)
<b>25-8036</b>	Diameter (1mm)
<b>25-8037</b>	Diameter (1.5mm)
<b>25-8038</b>	Diameter (2mm)
<b>25-8039</b>	Diameter (2.5mm)
<b>25-8040</b>	Diameter (3mm)
<b>25-8041</b>	Diameter (3.5mm)
<b>25-8042</b>	Diameter (4mm)
<b>25-8043</b>	Diameter (4.5mm)
<b>25-8044</b>	Diameter (5mm)

---



# DILATORS VASCULAR

---



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



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

# ENDARTERECTOMY

---



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

NOTE: Refer to individual products for detailed descriptions.

# FORCEPS ARTERY



CARDIO-VASCULAR/  
THORACIC

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

# FORCEPS CORONARY

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



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



# FORCEPS HEMOSTATIC

---



---

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

Length 12¼" (312mm)

---

# FORCEPS INTESTINAL

---

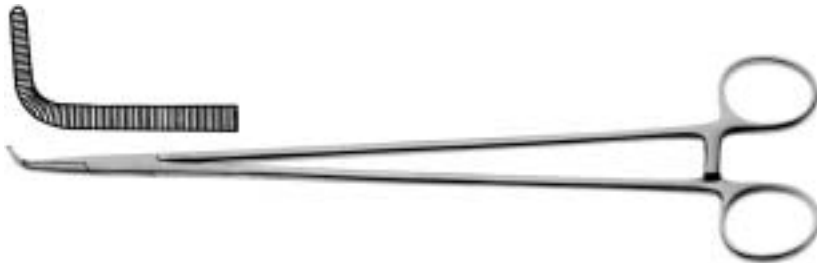


---

**30-4700** BRIDGE Intestinal Forceps, curved.

Length 11" (279mm)

---



---

**30-4701** MEEKER Intestinal Forceps, right angle.

Length 10¾" (273mm)

---

# FORCEPS LIGATURE



CARDIO-VASCULAR/  
THORACIC

---

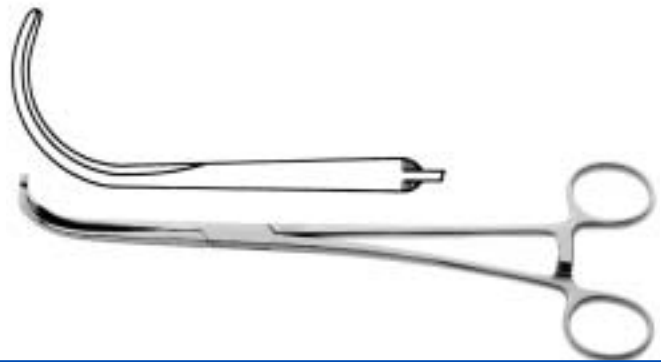
<b>37-1132</b>	DeBAKEY-SEMB CLASSIC™ Ligature Carrying Forceps, 1x2 vascular teeth.
Length of serrations	5/8" (15mm)
Jaw length	2 1/4" (57mm)
Total length	10" (254mm)

---

---

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

---

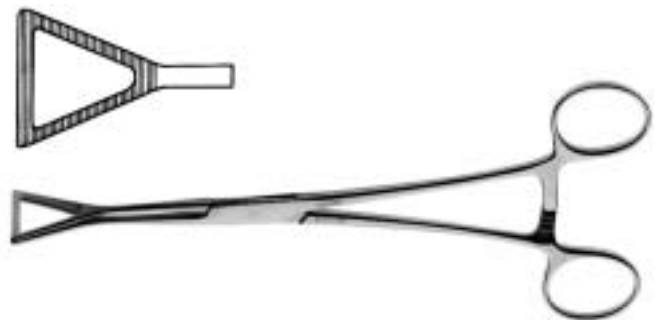


# FORCEPS LUNG

---

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

---



# FORCEPS SUTURE TAG

---



---

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

---



---

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

---

# FORCEPS THORACIC

---



---

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

---

# FORCEPS THORACIC

---

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

---



---

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

---

CARDIO-VASCULAR/  
THORACIC

# FORCEPS THORACIC

---



---

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

---



---

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

---



---

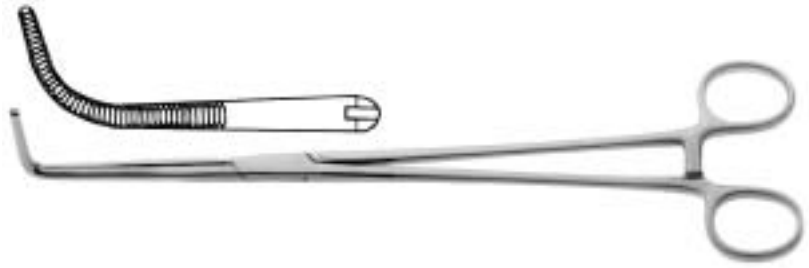
**19-8152** JONES Thoracic Clamp, curved.  
Length 11¼" (286mm)

---

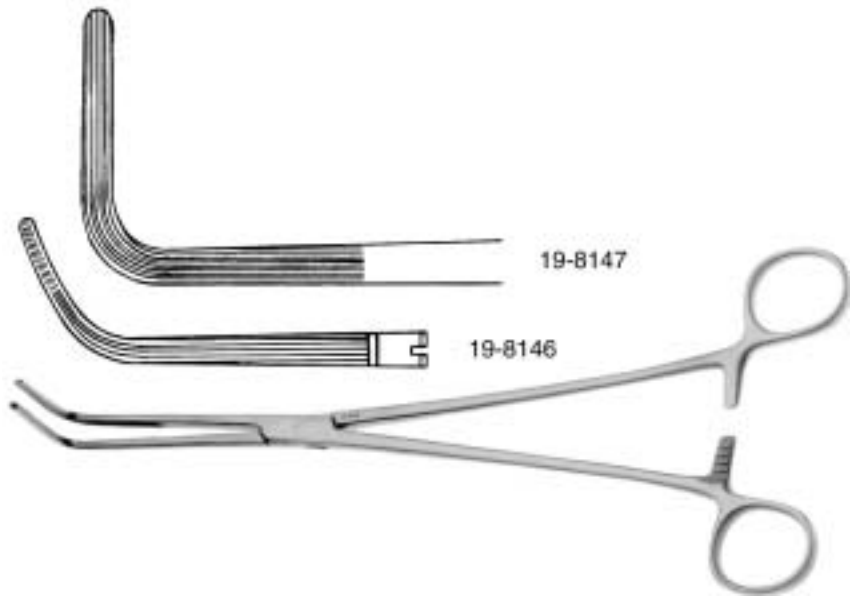


# FORCEPS THORACIC

CARDIO-VASCULAR/  
THORACIC



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

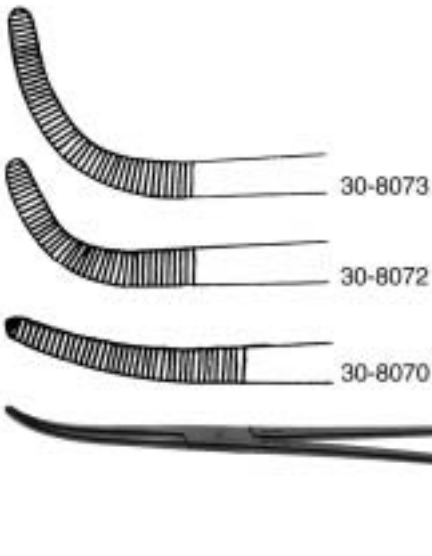


MIXTER Thoracic Clamp Forceps,  
angular, longitudinal serrations.  
Length 11" (279mm)

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

# FORCEPS THORACIC

---



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

---



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

---



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

---

# FORCEPS THORACIC



CARDIO-VASCULAR/  
THORACIC

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

# FORCEPS TISSUE

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



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



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

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



# FORCEPS TISSUE



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

# FORCEPS VASCULAR



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



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

Tip width is measured 1mm from the instrument tip.

# FORCEPS VASCULAR

CARDIO-VASCULAR/  
THORACIC

## DeBAKEY CLASSIC™ Vascular Tissue Forceps

<b>37-1010</b>	Length	6"	(152mm)
<b>37-1011</b>	Length	7¾"	(197mm)
<b>37-1012</b>	Length	9½"	(241mm)
<b>37-1013</b>	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

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



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

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

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



# FORCEPS VESSEL

<b>30-8018</b>	VANDERBILT UNIVERSITY Vessel Forceps		
	Length	8½"	(216mm)



# HOLDER VEIN

---



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

---

# KNIFE

---



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

---

# KNIFE STERNAL

---



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

---

# KIT CASTANEDA CARDIOVASCULAR

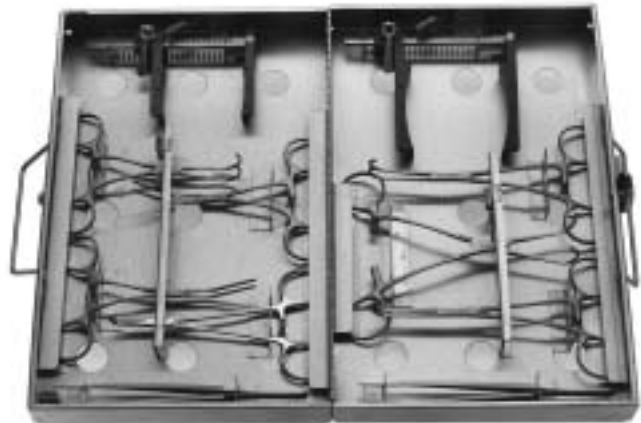
---

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

---

NOTE: Refer to individual products for detailed descriptions.

---



CARDIO-VASCULAR/  
THORACIC

# KIT DIETHRICH BYPASS



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

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

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

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

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

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

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

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

# KIT IMA



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

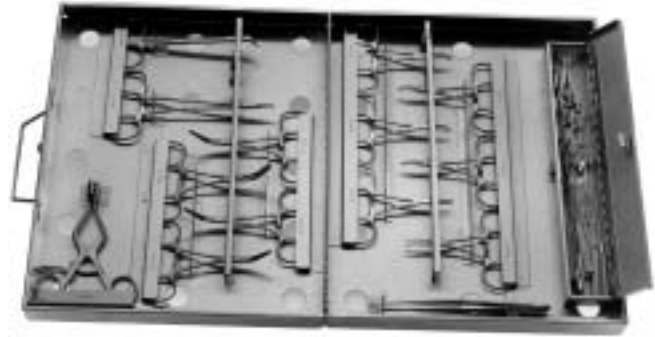
Includes:

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



# KIT NOON A-V FISTULA

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



CARDIO-VASCULAR/  
THORACIC

# KIT WYLIE ENDARTERECTOMY

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

NOTE: Refer to individual products for detailed descriptions.



# NEEDLES



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

# NEEDLE HOLDERS



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



JACOBSON Titanium Needle Holders

	With catch	Length	
<b>80-1866</b>	Straight	7"	(178mm)
<b>80-1868</b>	Straight	8 1/2"	(216mm)
Without catch			
<b>80-1867</b>	Straight	7"	(178mm)
<b>80-1869</b>	Straight	8 1/2"	(216mm)



CLASSIC PLUS JONES I.M.A. Needle Holder

<b>36-3018</b>	Straight	Length 6"	(152mm)
<b>36-3019</b>	Straight	Length 7"	(178mm)

NOTE: See GENERAL Section for additional Needle Holders.

# PUNCHES

---

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

---



---

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

---

# RASP

---

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

---



CARDIO-VASCULAR/  
THORACIC

## RASP

---



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

---

## RETRACTORS EPICARDIAL

---



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

---

## RETRACTORS HAND-HELD

---



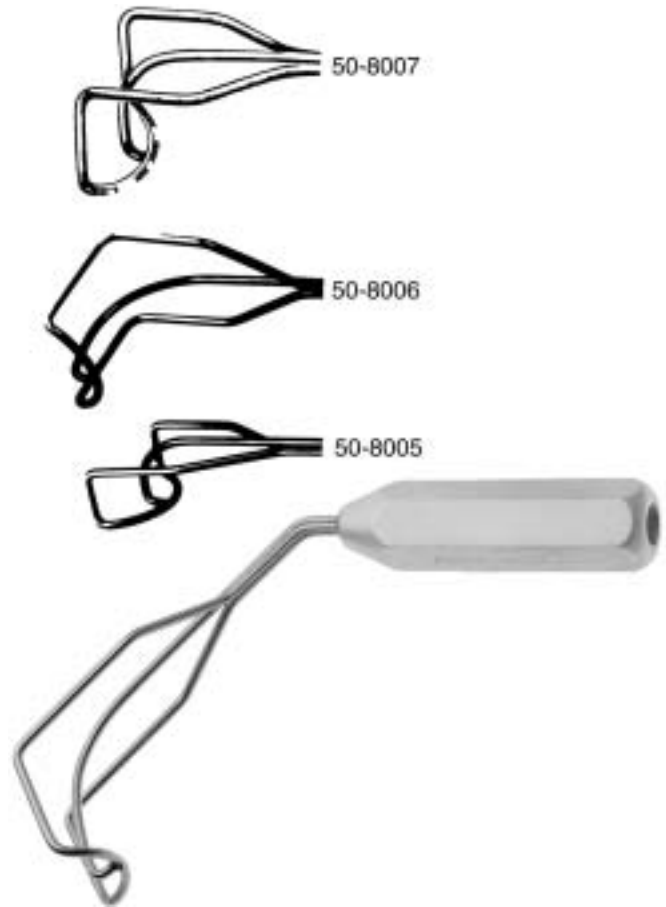
	ALLISON Lung Retractors	
50-8152	Small	
	Length	10 $\frac{1}{2}$ " (260mm)
50-8153	Large	
	Length	12 $\frac{1}{2}$ " (318mm)

---

# RETRACTORS HAND-HELD

CARDIO-VASCULAR/  
THORACIC

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



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



# RETRACTORS HAND-HELD



50-8001



50-8003



50-8000



50-8002



## KIRKLIN Atrial Retractors, malleable shaft.

Nickle plated

Blade depth	5/16"	(8mm)
Length	5 1/2"	(140mm)
Blade width	3/16"	(5mm)
<b>50-8000</b>	Blade width	1/4"
<b>50-8001</b>	Blade width	3/8"
<b>50-8002</b>	Blade width	1/2"
<b>50-8003</b>	Blade width	



## LIDDICOAT Aortic Valve Retractors

<b>50-8011</b>	Length	7 3/4"	(197mm)
	Small		
	Blade width	3/8"	(10mm)
	Blade length	3/4"	(18mm)
<b>50-8012</b>	Large		
	Blade width	3/4"	(18mm)
	Blade length	1 1/8"	(28mm)



## MURPHY Retractors

	Three prong		
	Blade width	1/2"	(13mm)
	Blade depth	5/16"	(8mm)
	Length	7 3/4"	(197mm)
<b>50-8071</b>	Sharp		
<b>50-8077</b>	Blunt		



	Four prong		
	Blade width	1 1/16"	(18mm)
	Blade depth	5/16"	(8mm)
	Length	7 3/4"	(197mm)
<b>50-8072</b>	Sharp		
<b>50-8078</b>	Blunt		



	Six prong		
	Blade width	1 1/8"	(29mm)
	Blade depth	5/16"	(8mm)
	Length	7 3/4"	(197mm)
<b>50-8073</b>	Sharp		
<b>50-8079</b>	Blunt		

# RETRACTORS HOOK

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



# RETRACTORS SELF-RETAINING, MULTI PURPOSE

CARDIO-VASCULAR/  
THORACIC

<b>50-8015</b>	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)



<b>50-8016</b>	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)



# RETRACTORS

## SELF-RETAINING, MULTI PURPOSE

---



**50-8160**  
**50-8161**

DARLING Popliteal Retractors, self-retaining.

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

Left

Right

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

---

# RETRACTORS

## SELF-RETAINING, RIB

---



**50-8033**

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

Aluminum

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

---



# RETRACTORS SELF-RETAINING, RIB

CARDIO-VASCULAR/  
THORACIC



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

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



# RETRACTORS SELF-RETAINING, RIB

---



---

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

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

---



---

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

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

---

# RETRACTORS SELF-RETAINING, RIB

---

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

---



---

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

---



CARDIO-VASCULAR/  
THORACIC

# RETRACTORS SELF-RETAINING, RIB

---




---

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

---




---

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

---

# RETRACTORS SELF-RETAINING, STERNAL

CARDIO-VASCULAR/  
THORACIC

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

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



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

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

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

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



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

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

**50-8061** Large

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



# RETRACTORS SELF-RETAINING, STERNAL

---



---

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

---



---

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

---

# RETRACTORS

## SELF-RETAINING, STERNAL

---

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

---



---

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

---



CARDIO-VASCULAR/  
THORACIC

# RETRACTORS

## SELF-RETAINING, STERNAL

---



---

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

---



---

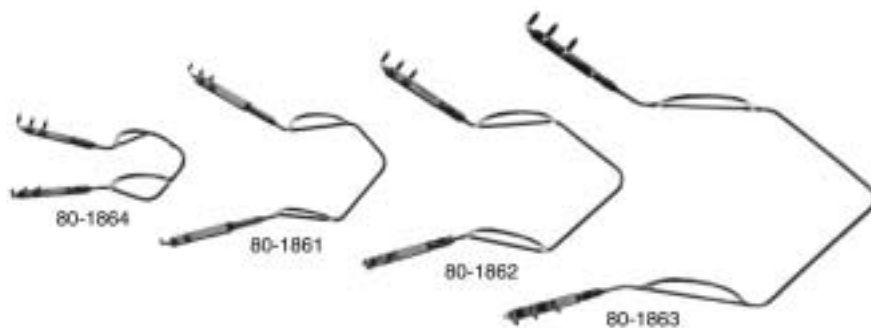
<b>50-8085</b>	PACIFICO Sternal Retractor, self-retaining.	
	Arm length	6" (152mm)
	Total opening	8" (203mm)
	Upper Blade width	1 $\frac{1}{8}$ " (28mm)
	Upper Blade depth	1 $\frac{1}{8}$ " (28mm)
	Lower Blade width	1 $\frac{1}{8}$ " (28mm)
	Lower Blade depth	$\frac{3}{4}$ " (19mm)
	The retractor is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

---



# RETRACTORS SELF-RETAINING, SPRING

---



CARDIO-VASCULAR/  
THORACIC

---

I.M.A. Epicardial Retractors  
Gold Coated

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

---

# RETRACTORS, TABLE FIXED BOOKWALTER IMA

---



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

**50-4600** BOOKWALTER IMA Retractor

Includes:

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

# RONGEUR RIB

---



CARDIO-VASCULAR/  
THORACIC

---

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

---

# SAW AIR POWERED STERNUM

---



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



- 
- |                |   |
|----------------|---|
| <b>26-7006</b> | CODMAN Sternum Saw Handpiece with<br>Footplate, Air Powered |
|----------------|---|
- 

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



- 
- |                |                              |
|----------------|------------------------------|
| <b>26-7004</b> | CODMAN Sternum Saw Footplate |
|----------------|------------------------------|
-

# SAW AIR POWERED STERNUM

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



## SCISSORS CARDIOVASCULAR

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



## SCISSORS CIRCUMFLEX ARTERY

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



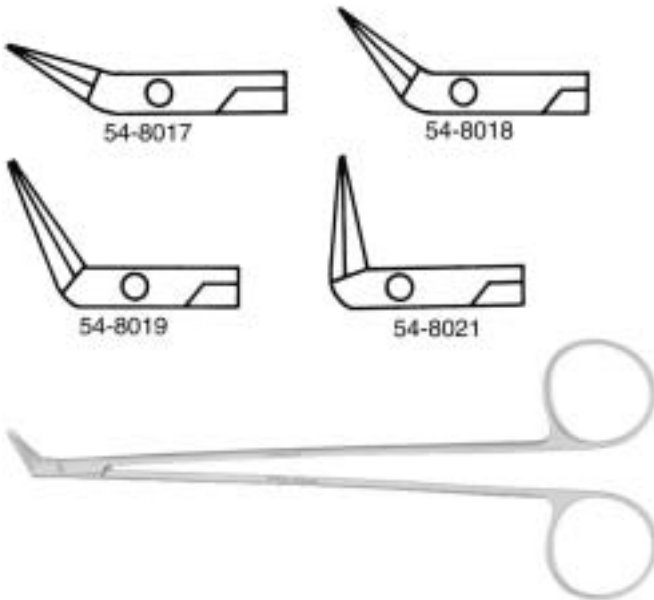
**54-8016** LAWRIE Modified Circumflex Scissors,  
without stabilizing bar, 130° angle.  
Blade width ⅛" (4mm)  
Blade length ½" (13mm)  
Length 7" (178mm)



CARDIO-VASCULAR/  
THORACIC

# SCISSORS CORONARY ARTERY

---




---

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

---




---

<b>54-8010</b>	FAVALORO Coronary Scissors, curved shank, 130° angle.	
	Blade width	$\frac{1}{8}$ " (4mm)
	Blade length	$\frac{7}{16}$ " (11mm)
	Length	$6\frac{3}{4}$ " (171mm)

---

# SCISSORS CORONARY ARTERY

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



CARDIO-VASCULAR/  
THORACIC

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



# SCISSORS DISSECTING

---



---

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

---



---

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

---



---

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

---

# SCISSORS ENDARTERECTOMY

---



---

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

---



# SCISSORS STITCH

---

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

---



CARDIO-VASCULAR/  
THORACIC

# SCISSORS TENOTOMY



---

JAMISON Metzenbaum Tenotomy Scissors,  
curved blades.

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

---

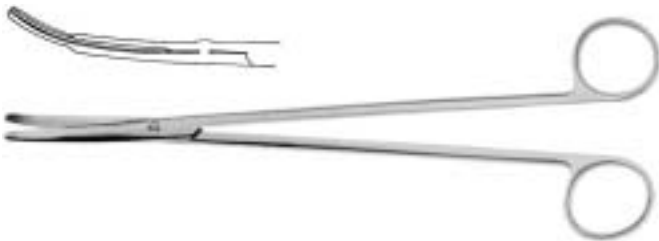
---

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

---

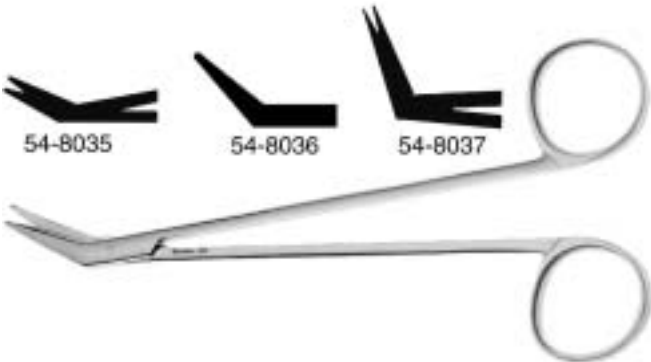


# SCISSORS TISSUE



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

# SCISSORS VASCULAR



DeBAKEY Vascular Scissors  
Blade width 1/4" (6mm)  
Blade length 7/8" (22mm)  
Length 6 1/2" (165mm)

**54-8035** 25° angle  
**54-8036** 45° angle  
**54-8037** 60° angle



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

# SCISSORS VASCULAR

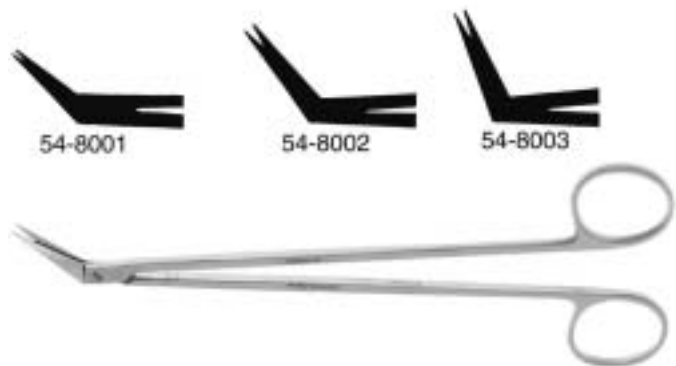
**54-8004** MATTOX-POTTS Scissors, 45° angle.  
 Blade width 1/4" (6mm)  
 Blade length 13/16" (21mm)  
 Length 5 1/2" (140mm)



CARDIO-VASCULAR/  
THORACIC

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

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



# SCISSORS VALVE

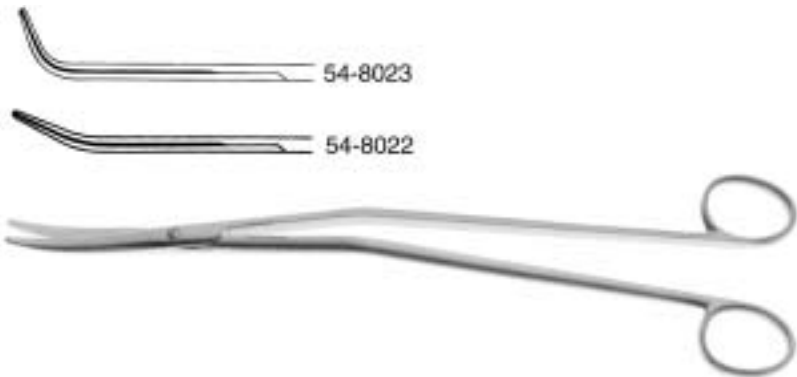
DIETHRICH Valve Scissors, serrated blades.  
 Length 9" (229mm)

**54-8005** Slight curve  
**54-8006** Full curve



# SCISSORS VALVE

---



---

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

---

# SHEARS RIB

---



---

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

---

# SHEARS RIB



CARDIO-VASCULAR/  
THORACIC

---

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

---

---

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

---



# SHEARS RIB

---



---

<b>56-8044</b>	STILLE-GIERTZ Rib Shears		
	Length	10"	(254mm)

---

# SPREADER VEIN

---



---

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

---

# STRIPPER RIB

---



---

<b>63-8025</b>	MATSON Rib Stripper and Elevator, sharp, double-ended.		
	Elevator width	$\frac{5}{8}$ "	(16mm)
	Stripper width	1¾"	(35mm)
	Length	8⅝"	(219mm)

---

# SUCTION TUBES

CARDIO-VASCULAR/  
THORACIC



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



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



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



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

Replacement tips may be ordered through the Repair Department.



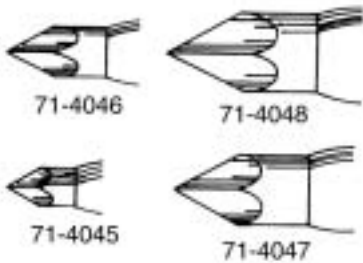
PACIFICO Suction Tubes			
	Diameter tapers	11-8 Fr.	
<b>70-8047</b>	Short Length	5 1/2"	(140mm)
<b>70-8048</b>	Long Length	7 1/2"	(191mm)

# TOURNIQUETS



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

# TROCARS



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



# TUNNELERS



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



# TUNNELERS

CARDIO-VASCULAR/  
THORACIC



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

**80-8008** DOSICK Bellows Assembly



**80-8002** JACKSON Tunneler, includes bullet tip, two way stopcock and irrigating cannula tip.  
 Length 16<sup>13</sup>/<sub>16</sub>" (427mm)

# TUNNELERS

---



---

**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.

---

# WIRE TWISTER

---



---

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

---

# CLAMP TIP DETAIL

CARDIO-VASCULAR/  
THORACIC

19-8104 Crafoord Coarct Clamp



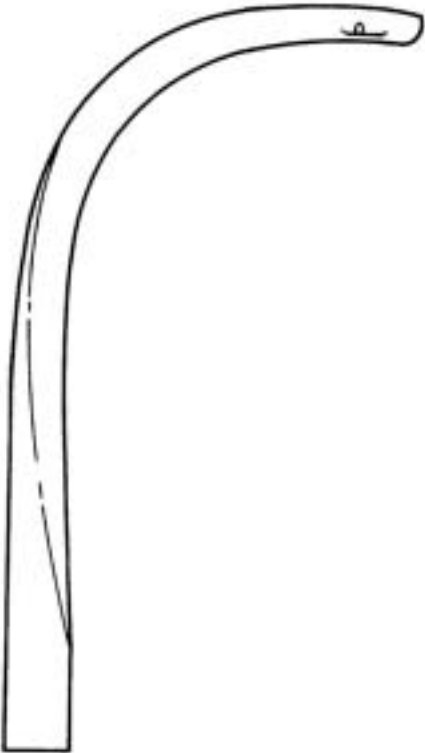
19-8168 Sarot Bronchus Clamp, right



19-8121 Cooley Vena Cava Clamp



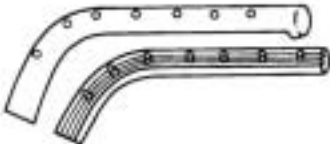
30-8056 Semb Forceps, acute curve



19-8122 Cooley Vena Cava Clamp



19-8167 Sarot Bronchus Clamp, left



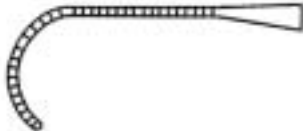
# CLAMP TIP DETAIL

---

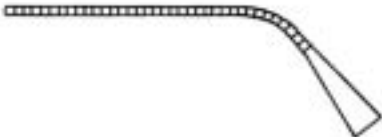
**30-9000** Castaneda Multi-Purpose Clamp, 30°



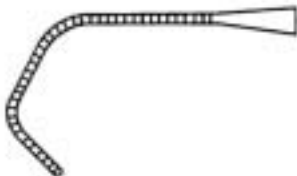
**30-9004** Castaneda Anastomosis Clamp, 1.8cm



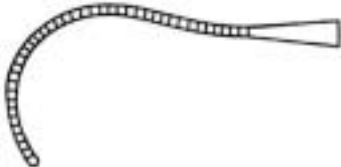
**30-9001** Castaneda Multi-Purpose Clamp, 50°



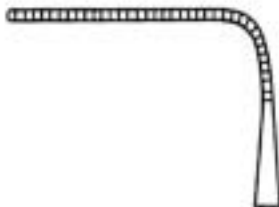
**30-9005** Castaneda Anastomosis Clamp, 2.2cm



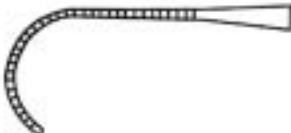
**30-9002** Castaneda Spoon Clamp



**30-9006** Castaneda Multi-Purpose Clamp, 90°



**30-9003** Castaneda Anastomosis Clamp, 1.5cm



**30-9011** Castaneda Multi-Purpose Clamp, straight



# CLAMP TIP DETAIL

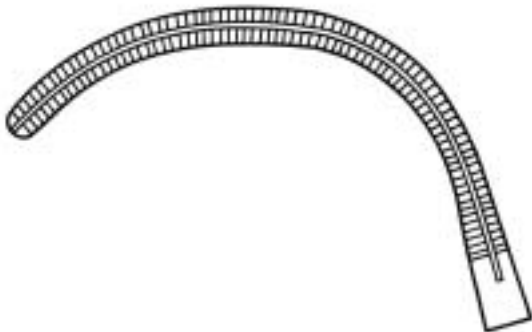
---

CARDIO-VASCULAR/  
THORACIC

37-1015 Dietrich Aorta Clamp



37-1024 Reul Aorta Clamp



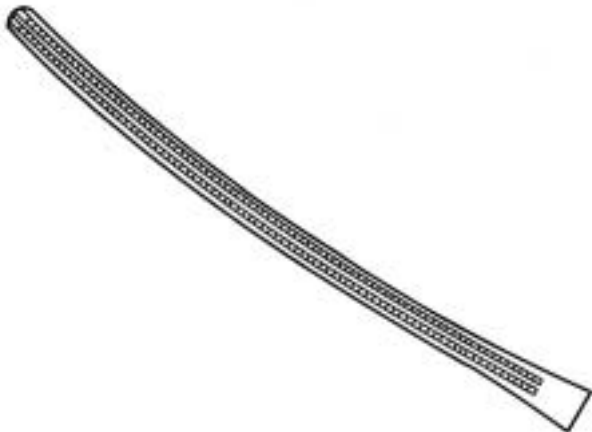
37-1020 Key Aorta Clamp



37-1025 Lambert-Kay Aorta Clamp



37-1021 Maitox Aorta Clamp



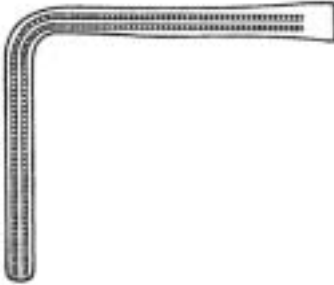
37-1026 Ochsner Aorta Clamp



# CLAMP TIP DETAIL

---

**37-1030** Lees Right-Angle Clamp



**37-1072** Debakey Bulldog Ring, 45°



**37-1035** Lees Bronchus Clamp



**37-1073** Debakey Bulldog Ring, 90°



**37-1074** Debakey Bulldog Ring, small



**37-1070** Debakey Bulldog Ring, straight



**37-1080** L Jones Vascular Clamp, 15°



**37-1071** Debakey Bulldog Ring, curved



**37-1081** L Jones Vascular Clamp, 30°



# CLAMP TIP DETAIL

CARDIO-VASCULAR/  
THORACIC

37-1085 Glover Ductus Clamp, straight



37-1086 Glover Ductus Clamp, angled



37-1090 Glover Coarct Clamp, straight



37-1091 Glover Coarct Clamp, angled



37-1095 Glover Curved Clamp, standard



37-1096 Glover Curved Clamp, x-long



37-1097 Glover Curved Clamp, x-right angle



37-1100 Glover Spoon Clamp, standard



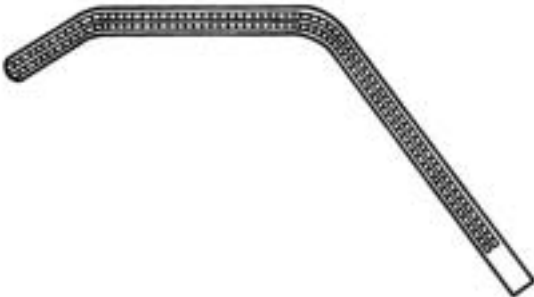
37-1101 Glover Spoon Clamp, x-long



# CLAMP TIP DETAIL

---

**37-1105** Glover Appendage Clamp



**37-1120** Debakey Aorta Exclusion Clamp



**37-1110** Debakey Angle Vascular Clamp, straight



**37-1125** Debakey Vascular Clamp, curved



**37-1115** Debakey Vascular Clamp, s shape



**37-1130** Debakey Vascular Clamp, acute curved



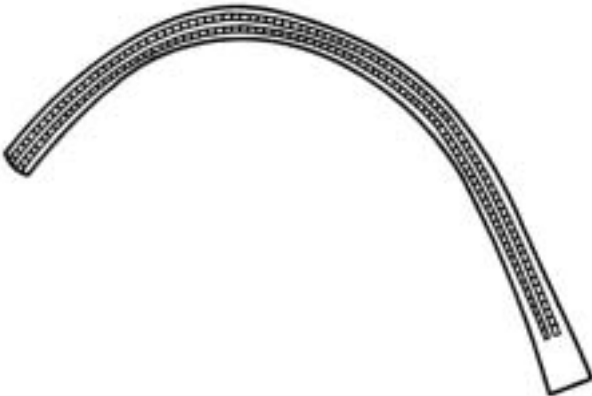


# CLAMP TIP DETAIL

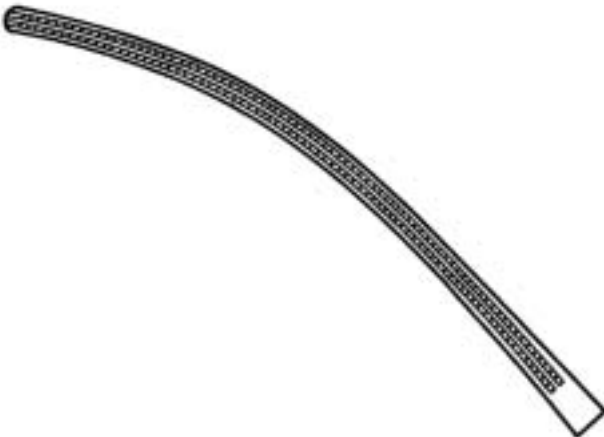
---

CARDIO-VASCULAR/  
THORACIC

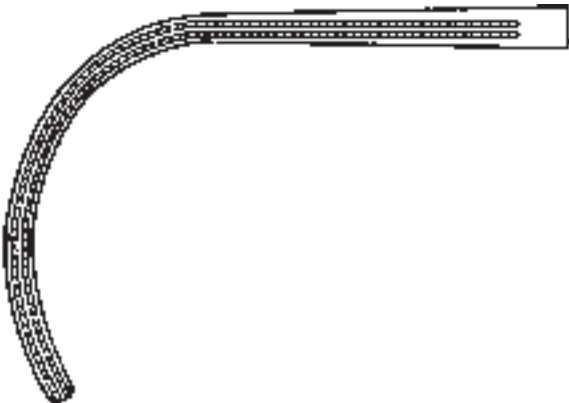
37-1131 Debakey Vascular Clamp, acute curved x-long



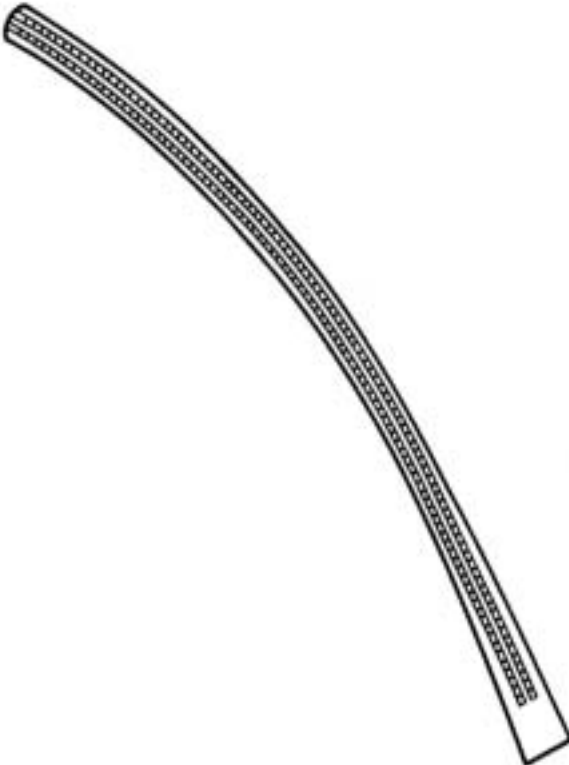
37-1141 Debakey Aneurism Clamp, 10 1/2



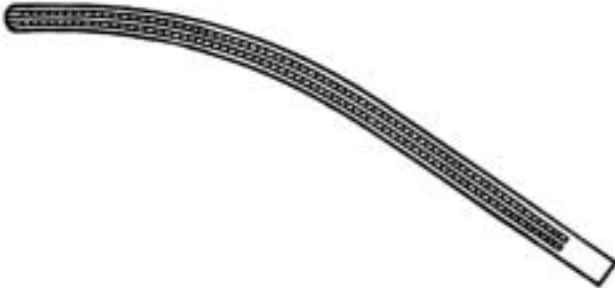
37-1132 Debakey-Semb Clamp



37-1142 Debakey Aneurism Clamp, 12



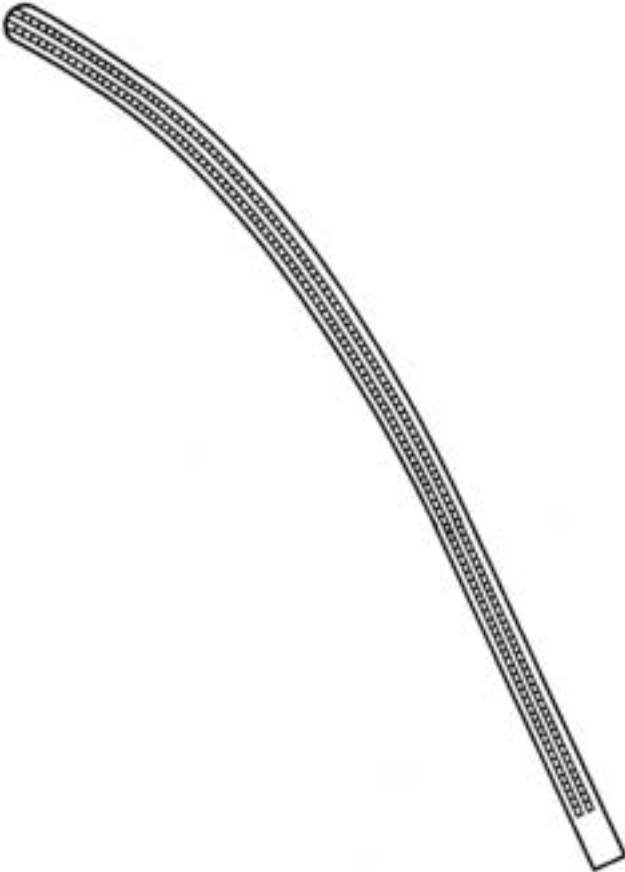
37-1140 Debakey Aneurism Clamp, 9 1/2



# CLAMP TIP DETAIL

---

37-1143 Debakey Aneurism Clamp, 12 1/2



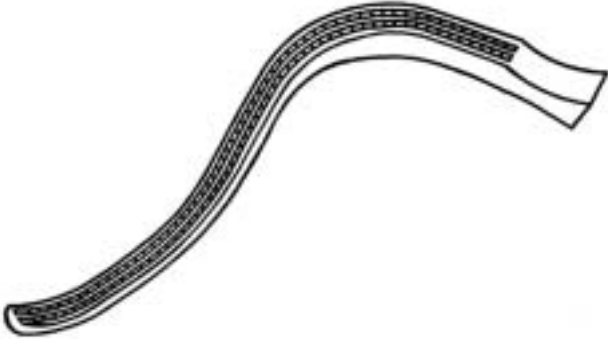
37-1160 Debakey Ductus Clamp, straight



37-1161 Debakey Ductus Clamp, angled



37-1165 Debakey Aorta Clamp



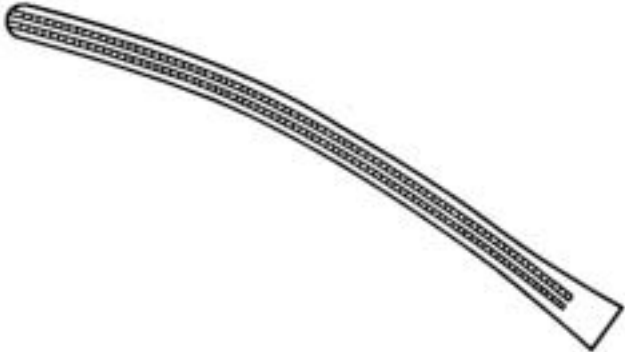
37-1150 Debakey Coarct Clamp, straight



37-1151 Debakey Coarct Clamp, angled



37-1166 Garcia Aorta Clamp



# CLAMP TIP DETAIL

CARDIO-VASCULAR/  
THORACIC

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



37-1193 Debakey Tangential Occlusion Clamp, #4



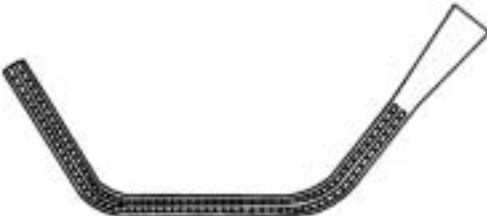
37-1190 Debakey Tangential Occlusion Clamp, #1



37-1194 Debakey Tangential Occlusion Clamp, #5



37-1191 Debakey Tangential Occlusion Clamp, #2



37-1192 Debakey Tangential Occlusion Clamp, #3



37-1200 Satinsky Vena Cava Clamp, large



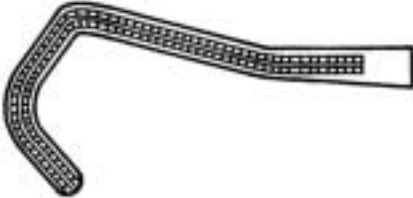
# CLAMP TIP DETAIL

---

**37-1201** Satinsky Vena Cava Clamp, medium



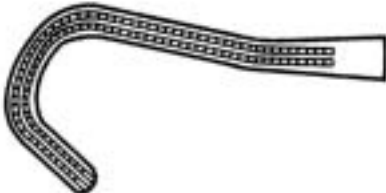
**37-1221** Derra Anastomosis Clamp, medium



**37-1202** Satinsky Vena Cava Clamp, small



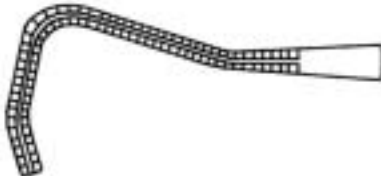
**37-1222** Derra Anastomosis Clamp, large



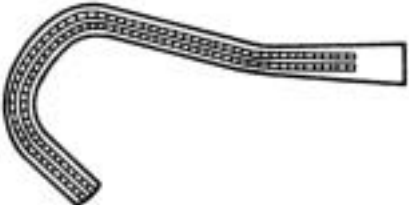
**37-1210** Cooley Anastomosis Clamp



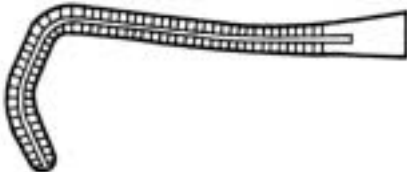
**37-1225** Anastomosis Clamp



**37-1220** Derra Anastomosis Clamp, small



**37-1230** Cooley Modified Anastomosis Clamp



# CLAMP TIP DETAIL

CARDIO-VASCULAR/  
THORACIC

37-1240 Renal Artery Clamp, 18.5cm



37-1241 Renal Artery Clamp, 19.5cm



37-1242 Renal Artery Clamp, 27.0cm



37-1250 Cooley Ductus Clamp, straight



37-1251 Cooley Ductus Clamp, angled



37-1260 Cooley Coarct Clamp, straight



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



37-1262 Cooley Coarct Clamp, curved



37-1263 Cooley Coarct Clamp, spoon



# CLAMP TIP DETAIL

---

37-1270 Beck Vessel Clamp, small



37-1271 Beck Vessel Clamp, large



37-1272 Beck Aorta Mini Clamp



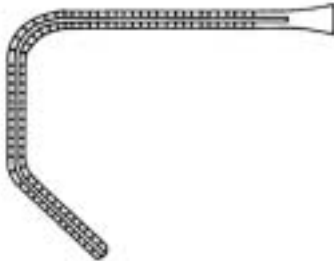
37-1273 Subra Mini Aorta Clamp



37-1275 Henly Modified Vascular Clamp



37-1280 Cooley Pediatric Clamp, 90°, small



37-1281 Cooley Pediatric Clamp, 90°, large



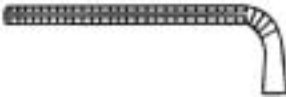
# CLAMP TIP DETAIL

CARDIO-VASCULAR/  
THORACIC

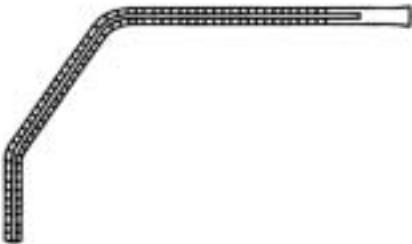
37-1282 Cooley Pediatric Clamp, 60°, small



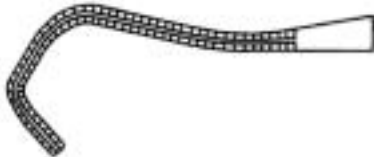
37-1292 Cooley Multi-Purpose Clamp, 90°



37-1283 Cooley Pediatric Clamp, 60°, large



37-1300 Cooley-Derra Clamp, small



37-1301 Cooley-Derra Clamp, medium



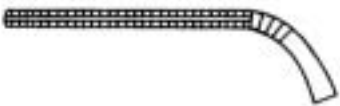
37-1290 Cooley Multi-Purpose Clamp, 30°



37-1302 Cooley-Derra Clamp, large



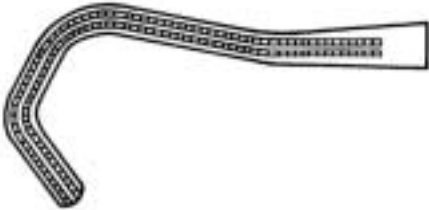
37-1291 Cooley Multi-Purpose Clamp, 60°



# CLAMP TIP DETAIL

---

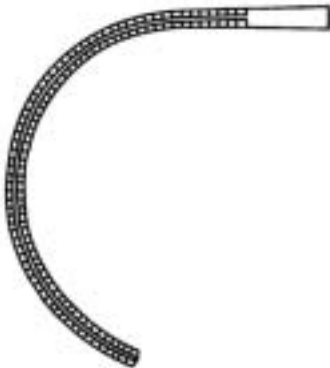
**37-1305** Bartley Anastomosis Clamp



**37-1310** Cooley Clamp, acute curved, medium



**37-1311** Cooley Clamp, acute curved, large



**37-1320** Debakey Multi-Purpose Clamp, 30°



**37-1321** Debakey Multi-Purpose Clamp, 60°



**37-1322** Debakey Multi-Purpose Clamp, 90°



**37-1323** Reynolds Clamp, 50°, small jaw



**37-1324** Reynolds Clamp, 50°, large jaw

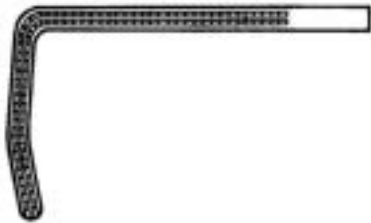




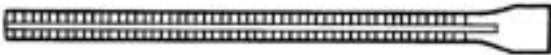
# CLAMP TIP DETAIL

CARDIO-VASCULAR/  
THORACIC

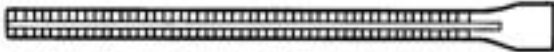
37-1325 Reynolds Clamp, 85°, small jaw



37-1401 Cooley lilac Clamp, 10"



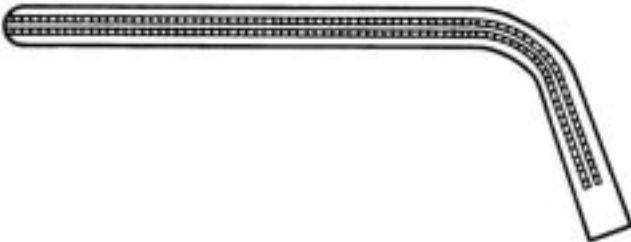
37-1402 Cooley lilac Clamp, 8 1/2"



37-1326 Reynolds Clamp, 85°, small jaw



37-1700 Morris Aorta Clamp, 8"



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



37-1701 Morris Aorta Clamp, 10"





# CURETTES UTERINE

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

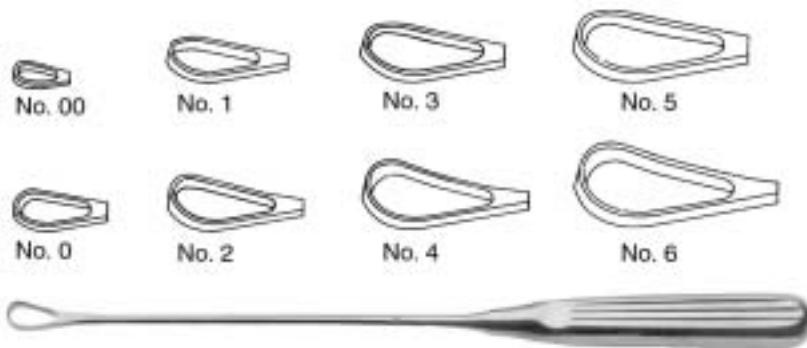


SIMS Uterine Curettes, sharp, one-piece construction.

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



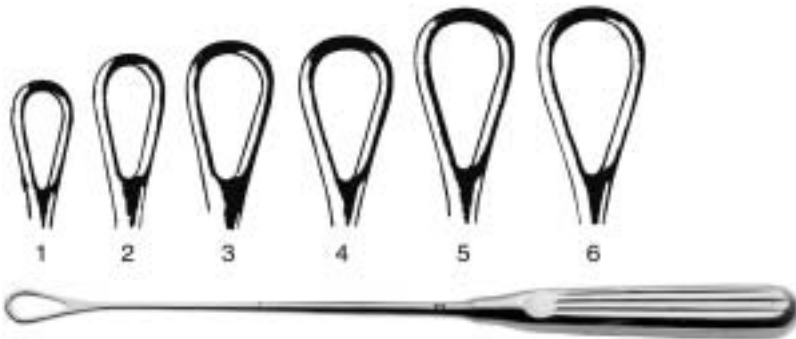
OBSTETRICS/  
GYNECOLOGICAL



SIMS Uterine Curettes, sharp, malleable shaft.

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

# CURETTES UTERINE



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



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



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



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

# DILATORS UTERINE

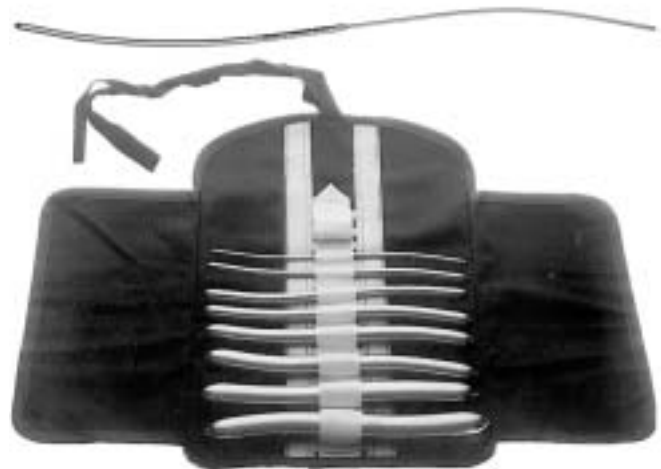
- 25-5549** HANKS Uterine Dilators, double-ended, solid. Complete set of six in canvas roll.  
 $\frac{9}{10}$  to  $\frac{19}{20}$  Length 10½" (267mm)  
 HANKS Uterine Dilators, single sizes  
 Length 10½" (267mm)
- 25-5540**  $\frac{9}{10}$   
**25-5541**  $\frac{11}{12}$   
**25-5542**  $\frac{13}{14}$   
**25-5543**  $\frac{15}{16}$   
**25-5544**  $\frac{17}{18}$   
**25-5545**  $\frac{19}{20}$

Dilator sizes are given in French gauge.



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

Dilator sizes are given in French gauge.



- 25-5550** PRATT Uterine Dilators, double-ended, stainless steel. Similar to HEGAR Dilators but longer. Complete set of eight in kakhi roll.  
 Length 11⅞" (300mm)
- 25-5551**  $\frac{13}{16}$   
**25-5552**  $\frac{17}{19}$   
**25-5553**  $\frac{21}{23}$   
**25-5554**  $\frac{25}{27}$   
**25-5555**  $\frac{29}{31}$   
**25-5556**  $\frac{33}{35}$   
**25-5557**  $\frac{37}{39}$   
**25-5558**  $\frac{41}{43}$

Dilator sizes are given in French gauge.



OBSTETRICS/  
GYNECOLOGICAL

# EXTRACTORS

---



---

**80-5550** MURLESS Fetal Head Extractor

---

# FORCEPS BREAST

---



---

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

---

# FORCEPS CERVICAL

---



---

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

---

# FORCEPS HYSTERECTOMY

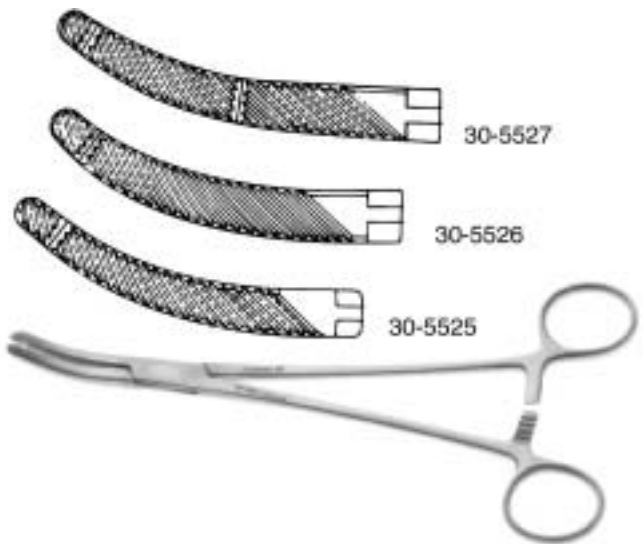
OBSTETRICS/  
GYNECOLOGICAL

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



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

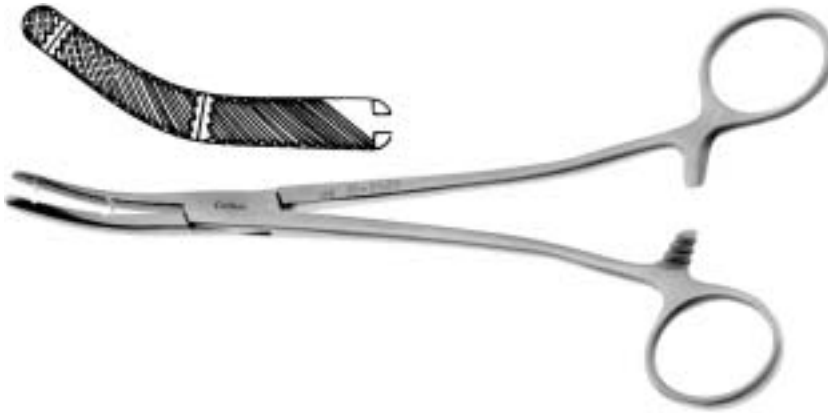
**30-5525** Light Jaws, single tooth  
**30-5526** Heavy Jaws, single tooth  
**30-5527** Heavy Jaws, double tooth



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

# FORCEPS HYSTERECTOMY

---




---

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

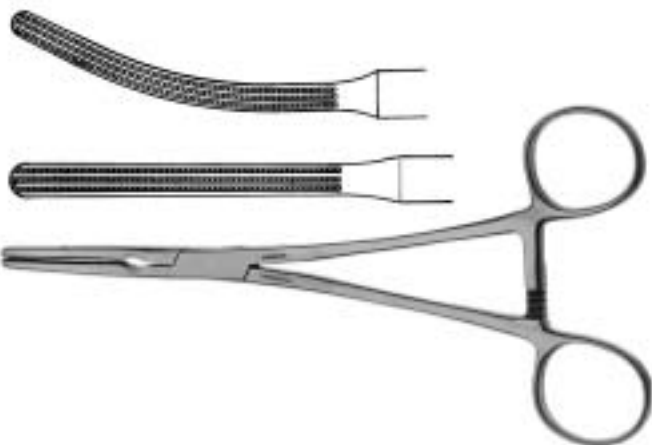
---




---

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

---




---

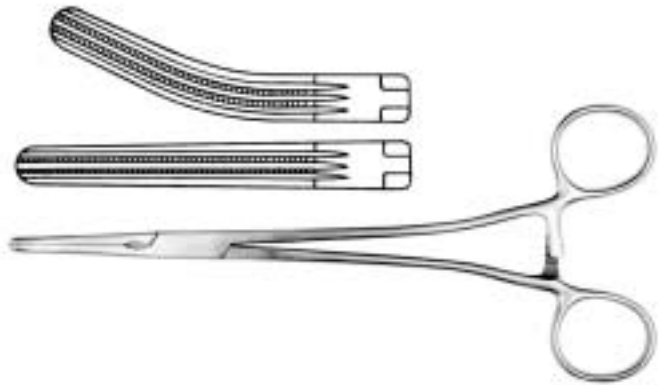
MASTERSON® Hysterectomy Forceps,  
2x3 vascular teeth.  
Jaw length 1 $\frac{5}{8}$ " (41mm)  
Total length 8 $\frac{1}{2}$ " (216mm)  
**37-1520** Straight  
**37-1521** Curved

---



# FORCEPS HYSTERECTOMY

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



# FORCEPS MICRO

OBSTETRICS/  
GYNECOLOGICAL

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



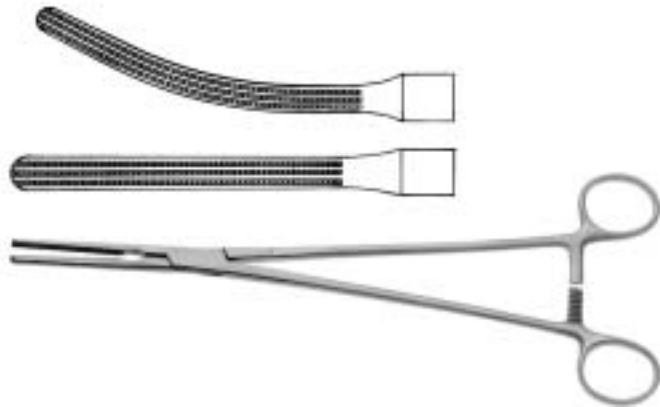
	E-SERIES* XF Forceps, Titanium		
	Length	6"	(152mm)
<b>80-6630</b>	Extra Fine Tying Tip	Tip width	.7mm
	Straight		
<b>80-6631</b>	Extra Fine Utility	Tip width	.3mm
	Straight		



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

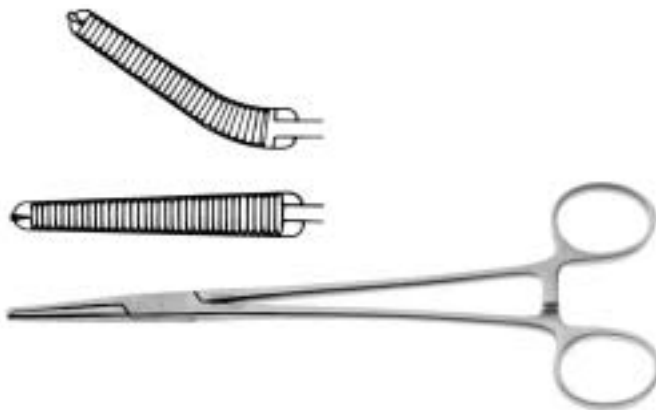


# FORCEPS PELVIC CLAMP



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

# FORCEPS UTERINE ARTERY



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

# FORCEPS UTERINE BIOPSY



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

# FORCEPS UTERINE BIOPSY



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



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



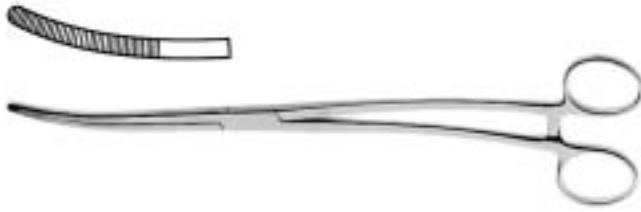
**30-5546** THOMS-GAYLER Uterine Biopsy Forceps, bent shafts.  
Jaws I.D. 5mm  
Length 8" (203mm)



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

# FORCEPS UTERINE DRESSING

---



---

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

---



---

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

---

# FORCEPS UTERINE TENACULUM

---



---

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

---

# FORCEPS UTERINE VULSELLUM

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



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



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



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

OBSTETRICS/  
GYNECOLOGICAL

# FORCEPS OBSTETRICAL

---



---

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

---



---

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

---



---

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

---

# FORCEPS OBSTETRICAL

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



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



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

OBSTETRICS/  
GYNECOLOGICAL

# FORCEPS PLACENTA



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

# KITS

## MAGRINA-BOOKWALTER VAGINAL

---



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

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



# KITS MICRO-INFERTILITY

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

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

OBSTETRICS/  
GYNECOLOGICAL

## NEEDLE HOLDERS MICRO

E-SERIES\* Needle Holders, curved, TITANIUM.

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



E-SERIES\* XF Needle Holders, Titanium

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



# RETRACTORS HAND-HELD

---



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

---



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

---



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

---

# RETRACTORS HAND-HELD

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



# RETRACTORS, TABLE FIXED MAGRINA-BOOKWALTER VAGINAL

OBSTETRICS/  
GYNECOLOGICAL

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

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



# SCISSORS UMBILICAL

---



---

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

---



---

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

---

# SCISSORS EPISIOTOMY

---



---

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

---

# SCISSORS EPISIOTOMY

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



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



OBSTETRICS/  
GYNECOLOGICAL

# SCISSORS MICRO

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



# SCISSORS MICRO

---



---

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

---

# SOUNDS UTERINE

---



---

SIMPSON Uterine Sound, silver plated.  
Length 13<sup>3</sup>/<sub>8</sub>" (340mm)  
**58-5669** Graduated in centimeters

---

# SPECULA

---



AUVARD Vaginal Weighted Specula.

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

---

OBSTETRICS/  
GYNECOLOGICAL



AUVARD Vaginal Weighted Specula

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

---

# SPECULA

---



---

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

---



---

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

---



# SPECULA

---

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

---



OBSTETRICS/  
GYNECOLOGICAL

---

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

---



# TROCARS

---

<b>71-5500</b>	WILSON Amniotic Trocar		
	Length	8⅞"	(225mm)

---





# APPLICATOR

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



# CALIPERS

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

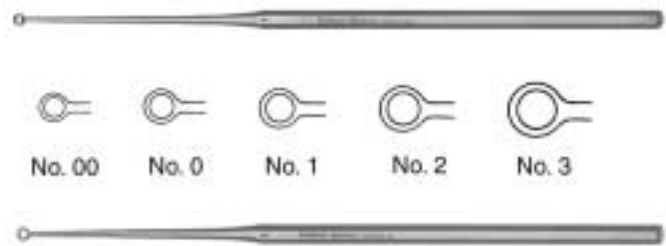


# CURETTES

BARNHILL Adenoid Currettes				
	Length		8½"	(216mm)
<b>23-6760</b>	No. 0	Tip size	½"	(13mm)
<b>23-6761</b>	No. 1	Tip size	⅜"	(15mm)
<b>23-6762</b>	No. 2	Tip size	¾"	(19mm)
<b>23-6763</b>	No. 3	Tip size	⅘"	(20mm)
<b>23-6764</b>	No. 4	Tip size	⅞"	(23mm)



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



EYE/EAR/NOSE/  
THROAT

## ELEVATORS

---



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

---



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

---

## DISSECTORS

---



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

---

## DEPRESSORS

---



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

---

# FORCEPS

---

**30-6951** HARTMANN Ear Forceps, angular serrated.  
Shaft length 3½" (89mm)  
Tip size ⅜" (7.6mm)

---



---

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

---



EYE/EAR/NOSE/  
THROAT



---

**30-4340** MAGILL Endotracheal Catheter Introducing  
Forceps  
Length 9½" (241mm)

---

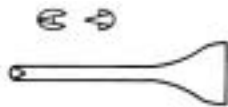
# FORCEPS



	EYE Dressing Forceps		
	Tip width		1mm (102mm)
	Length	4"	
<b>30-6520</b>	Straight		
<b>30-6524</b>	Curved		



<b>30-6585</b>	VON GRAEFE Fixation Forceps, without teeth.		
	Tip width		2mm (111mm)
	Length	4 3/4"	



	BISHOP HARMAN Iris Forceps, 1x2 teeth.		
	Length	3 1/4"	(83mm)
<b>30-6555</b>	Standard	Tip width	.5mm
<b>30-6556</b>	Delicate	Tip width	.3mm



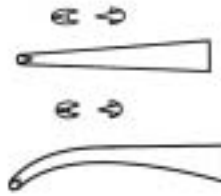
<b>30-6557</b>	BISHOP HARMAN Eye Dressing Forceps, straight.		
	Tip width		.4mm (86mm)
	Length	3 3/8"	



<b>30-7150</b>	JANSEN-MIDDLETON Septum Cutting Forceps, solid cup jaws.		
	Working distance	4"	(102mm)
	Cup size		5x15mm
	Length	7"	(178mm)

# FORCEPS

	IRIS Tissue Forceps, 1x2 teeth.		
	Tip width		.5mm
<b>30-6530</b>	Length	4"	(102mm)
	Straight		
<b>30-6532</b>	Curved		



	WHITE Tonsil Seizing Forceps		
<b>30-7315</b>	Length	7"	(178mm)
<b>30-7316</b>	Length	9"	(229mm)



<b>30-4330</b>	COLLIN Tongue Seizing Forceps		
	Length	6½"	(165mm)



	JANSEN Dressing Forceps, serrated, bayonet shape.		
<b>30-6995</b>	Working distance	3⅛"	(80mm)
	Tip width		2mm
	Length	6½"	(165mm)
<b>30-1160</b>	Working distance	4⅜"	(121mm)
	Tip width		1.8mm
	Length	8½"	(216mm)

EYE/EAR/NOSE/  
THROAT

# FORCEPS



<b>30-6695</b>	NUGENT Utility Forceps, smooth jaw, angled tip.		
	Tip width		.5mm
	Length	4"	(102mm)

# GAGS



	JENNINGS Mouth Gags		
<b>31-6501</b>	Spread	4½"	(114mm)
<b>31-6502</b>	Spread	6"	(152mm)

# HOOKS



	GUTHRIE Eye Fixation Hooks, two sharp teeth.		
<b>38-6530</b>	Standard		
	Tip width		2mm
	Length	4¾"	(122mm)
<b>38-6531</b>	Delicate		
	Tip width		1mm
	Length	5¼"	(132mm)



<b>38-6525</b>	TYRRELL Iris Hook, sharp.		
	Tip width		.4mm
	Length	4¾"	(121mm)



# HOOKS

**38-6642** JOSEPH Nasal Hook, single-prong.  
Length 6¼" (159mm)



JOSEPH Nasal Hooks, double-prong.  
Length 6¼" (159mm)  
**38-6645** Tip width ¼" (2mm)  
**38-6646** Tip width ⅜" (5mm)  
**38-6647** Tip width ¼" (7mm)  
**38-6648** Tip width ⅜" (10mm)



CONVERSE Skin Hooks, sharp.  
Length 7¼" (184mm)  
**38-6638** Small hook size ⅛" (3mm)  
**38-6640** Large hook size ⅓" (5mm)



**38-2520** GILLES Skin Hook, sharp.  
Length 7⅞" (181mm)  
Hook size ⅛" (3mm)



EYE/EAR/NOSE/  
THROAT

# KNIVES

BALLENGER Swivel Knives, straight.  
Total length 8½" (216mm)  
**40-6770** Blade width 3mm  
**40-6771** Blade width 4mm  
**40-6772** Blade width 5mm



**40-6775** BALLENGER Swivel Knife, bayonet shape.  
Working distance 3½" (89mm)  
Blade width 5mm  
Total length 8½" (216mm)



## KNIVES

---



---

<b>40-6852</b>	FISHER Tonsil Knife		
	Blade length	5/8"	(16mm)
	Length	9"	(228mm)

---

## NEEDLE HOLDER

---



---

<b>64-6502</b>	BARRAQUER Needle Holder, straight, with catch.		
	Tip width		1mm
	Length	6"	(150mm)

---

## PUNCHES

---



---

	HARTMANN Tonsil Punch, with round basket.		
<b>51-6581</b>	Shaft length	5 1/2"	(140mm)
	No. 2 Diameter		(8mm)

---

## RASP

---



---

<b>52-1005</b>	JOSEPH Periosteal Raspatory, sharp.		
	Working distance	1 5/8"	(41mm)
	Tip width	1/4"	(6mm)
	Length	6 7/8"	(175mm)

---

# RETRACTORS

<b>50-6536</b>	ROLLET Lachrymal Sac Retractor, four prong, sharp.		
	Length	5¼"	(133mm)



# SCISSORS

	CASTROVIEJO Corneal Scissors		
<b>54-6571</b>	Curved tip		
	Length	4¼"	(108mm)
<b>54-6572</b>	Angular jaw		
	Length	3¾"	(95mm)



54-6571



54-6572

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



<b>54-6666</b>	KNIGHT Nasal Scissors		
	Length	7"	(178mm)



	STEVENS Tenotomy Scissors		
<b>54-6520</b>	Straight	Length	4½" (105mm)
<b>54-6521</b>	Curved	Length	4½" (105mm)
<b>54-6522</b>	Straight	Length	4⅝" (118mm)
<b>54-6523</b>	Curved	Length	4⅝" (118mm)



EYE/EAR/NOSE/  
THROAT

# SCISSORS

---



---

STRABISMUS CLASSIC PLUS™ scissors,  
STELLITE™ edge inserts, blunt/blunt.  
**36-5005** Straight  
**36-5006** Curved

---



---

STRABISMUS Scissors, blunt/blunt.  
Length 4½" (114mm)  
**54-6515** Straight  
**54-6517** Curved

---



---

CLASSIC STRABISMUS Scissors, blunt/blunt  
Length 4½" (114mm)  
**34-6517** Curved

---



---

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

---



---

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

---



---

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

---

# SNARES

<b>57-6546</b>	TYDINGS Tonsil Snare, with tonsil snare wire.		
	Length	9"	(229mm)
	Wire length	4½"	(114mm)
	Wire diameter		.15mm



	SNARE Wire, prepared, 12 per package.		
	Length	4½"	(114mm)
<b>72-6515</b>	No. 7 Thickness		.46mm
<b>72-6516</b>	No. 8 Thickness		.51mm
<b>72-6517</b>	No. 9 Thickness		.56mm



EYE/EAR/NOSE/  
THROAT

# SPECULA

<b>79-6669</b>	HALLE Nasal Speculum, adult.		
	Blade length	1¼"	(32mm)
	Length	6"	(152mm)



	KILLIAN Septum Specula		
	Total length	5¼"	(133mm)
<b>79-7011</b>	Blade length	2"	(51mm)
<b>79-7012</b>	Blade length	2½"	(63mm)
<b>79-7013</b>	Blade length	3"	(76mm)



# SPECULA

---



---

**79-6667** TIECK-HALLE Nasal Speculum, infant.  
Blade length  $\frac{5}{8}$ " (16mm)  
Length  $5\frac{1}{4}$ " (133mm)

---



---

VIENNA Nasal Specula  
Length  $5\frac{1}{4}$ " (133mm)  
**79-6675** Small Blade length 1" (27mm)  
**79-6676** Medium Blade length 1" (28mm)  
**79-6677** Large Blade length 1" (32mm)

---

# ANTERIOR CERVICAL PLATE SYSTEM



The CODMAN Anterior Cervical Plate is designed for immediate internal fixation of the cervical spine following bone grafting procedures.

**46-4110** CODMAN Anterior Cervical Plate Kit Includes:

- 46-4111** 24mm Anterior Cervical Plate
- 46-4112** 26mm Anterior Cervical Plate
- 46-4113** 28mm Anterior Cervical Plate
- 46-4114** 30mm Anterior Cervical Plate
- 46-4115** 32mm Anterior Cervical Plate
- 46-4116** 34mm Anterior Cervical Plate
- 46-4117** 36mm Anterior Cervical Plate
- 46-4118** 38mm Anterior Cervical Plate
- 46-4119** 40mm Anterior Cervical Plate
- 46-4120** 42mm Anterior Cervical Plate
- 46-4121** 44mm Anterior Cervical Plate
- 46-4122** 46mm Anterior Cervical Plate
- 46-4123** 48mm Anterior Cervical Plate
- 46-4124** 50mm Anterior Cervical Plate
- 46-4125** 52mm Anterior Cervical Plate
- 46-4126** 54mm Anterior Cervical Plate
- 46-4170** 56mm Anterior Cervical Plate
- 46-4127** 58mm Anterior Cervical Plate
- 46-4171** 60mm Anterior Cervical Plate
- 46-4128** 62mm Anterior Cervical Plate
- 46-4172** 64mm Anterior Cervical Plate
- 46-4129** 66mm Anterior Cervical Plate
- 46-4173** 68mm Anterior Cervical Plate
- 46-4130** 70mm Anterior Cervical Plate
- 46-4174** 74mm Anterior Cervical Plate
- 46-4175** 78mm Anterior Cervical Plate
- 46-4176** 82mm Anterior Cervical Plate
- 46-4177** 86mm Anterior Cervical Plate
- 46-4178** 90mm Anterior Cervical Plate
- 46-4179** 94mm Anterior Cervical Plate
- 46-4180** 98mm Anterior Cervical Plate
- 46-4181** 102mm Anterior Cervical Plate
- 46-4182** 106mm Anterior Cervical Plate
- 46-4184** 110mm Anterior Cervical Plate

**46-4196** CODMAN Anterior Cervical Plate Kit (Continued)

- 46-4196** 12mm Standard Cancellous Bone Screw (1 per package)
- 46-4131** 12mm Standard Cancellous Bone Screw (4 per package)
- 46-4197** 15mm Standard Cancellous Bone Screw (1 per package)
- 46-4132** 15mm Standard Cancellous Bone Screw (4 per package)
- 46-4195** Plate Sterilization Tray
- 46-4198** Standard Screw Sterilization Tray

CODMAN Anterior Cervical Plate Placement Instruments

- 46-4165** Drill Guide/Plate Holder, Captured Assembly
- 46-4134** Drill Bit (12mm)
- 46-4135** Drill Bit (15mm)
- 46-4136** Plate Contouring Device
- 46-4137** Bone Tap (12mm)
- 46-4138** Bone Tap (15mm)
- 46-4139** Cam Tightener Assembly
- 46-4141** Screw Driver
- 46-4145** Drill Guide
- 46-4190** Forceps Plate Holder
- 46-4166** Dual Angle Drill Guide/Plate Holder, Captured Assembly
- 46-4142** Instrument Sterilization Tray

# ANTERIOR CERVICAL PLATE SYSTEM

---



- 46-4111 24mm Anterior Cervical Plate
  - 46-4112 26mm Anterior Cervical Plate
  - 46-4113 28mm Anterior Cervical Plate
  - 46-4114 30mm Anterior Cervical Plate
  - 46-4115 32mm Anterior Cervical Plate
  - 46-4116 34mm Anterior Cervical Plate
  - 46-4117 36mm Anterior Cervical Plate
  - 46-4118 38mm Anterior Cervical Plate
  - 46-4119 40mm Anterior Cervical Plate
  - 46-4120 42mm Anterior Cervical Plate
  - 46-4121 44mm Anterior Cervical Plate
  - 46-4122 46mm Anterior Cervical Plate
  - 46-4123 48mm Anterior Cervical Plate
  - 46-4124 50mm Anterior Cervical Plate
  - 46-4125 52mm Anterior Cervical Plate
  - 46-4126 54mm Anterior Cervical Plate
  - 46-4170 56mm Anterior Cervical Plate
  - 46-4127 58mm Anterior Cervical Plate
  - 46-4171 60mm Anterior Cervical Plate
  - 46-4128 62mm Anterior Cervical Plate
  - 46-4172 64mm Anterior Cervical Plate
  - 46-4129 66mm Anterior Cervical Plate
  - 46-4173 68mm Anterior Cervical Plate
  - 46-4130 70mm Anterior Cervical Plate
  - 46-4174 74mm Anterior Cervical Plate
  - 46-4175 78mm Anterior Cervical Plate
  - 46-4176 82mm Anterior Cervical Plate
  - 46-4177 86mm Anterior Cervical Plate
  - 46-4178 90mm Anterior Cervical Plate
  - 46-4179 94mm Anterior Cervical Plate
  - 46-4180 98mm Anterior Cervical Plate
  - 46-4181 102mm Anterior Cervical Plate
  - 46-4182 106mm Anterior Cervical Plate
  - 46-4184 110mm Anterior Cervical Plate
- 



- 46-4196 12mm Standard Cancellous Bone Screw  
(1 per package)
  - 46-4197 15mm Standard Cancellous Bone Screw  
(1 per package)
  - 46-4131 12mm Standard Cancellous Bone Screw  
(4 per package)
  - 46-4132 15mm Standard Cancellous Bone Screw  
(4 per package)
- 



- 46-4190 CODMAN Anterior Cervical Plate  
Forceps Plate Holder
-



# ANTERIOR CERVICAL PLATE SYSTEM

---

---

**46-4165** CODMAN Anterior Cervical Plate  
Drill Guide/Plate Holder, Captured Assembly

---



---

**46-4136** CODMAN Anterior Cervical Plate Contouring  
Device

---



---

**46-4134** CODMAN Anterior Cervical Plate  
Drill Bit (12mm)

---



---

**46-4135** CODMAN Anterior Cervical Plate  
Drill Bit (15mm)

---



SPINE

# ANTERIOR CERVICAL PLATE SYSTEM

---



**46-4137** CODMAN Anterior Cervical Plate Bone Tap (12mm)

---



**46-4138** CODMAN Anterior Cervical Plate Bone Tap (15mm)

---



**46-4139** CODMAN Anterior Cervical Plate CAM Tightener Assembly  
Consists of:  
CAM Tightener Shaft  
CAM Tightener Handle  
Replacement CAM Tightener Shaft (46-4192)

---



**46-4141** CODMAN Anterior Cervical Plate Screw Driver

---



**46-4145** CODMAN Anterior Cervical Plate Drill Guide

---

# ANTERIOR CERVICAL PLATE SYSTEM

**46-4166** CODMAN Anterior Cervical Plate  
Dual Angle Drill Guide/Plate Holder,  
Captured Assembly



## BIOPSY SET

**24-2500** CRAIG Vertebral Body Biopsy Kit,  
in stainless steel sterilizing rack.  
Includes the following:

1. Needle, 20G.  
(for infiltration of operative area)
2. Needle, 22G.  
(for similar use)
3. Calibrated blunt trocars, two.  
(for blunt dissection through soft tissues  
to vertebral body)
4. Calibrated cannula  
(if x-rays demonstrate trocar is in satisfactory  
position, cannula is then inserted over it)
5. Tooth cutter  
(use within the calibrated cannula  
to obtain a 3mm core)
6. Sharp cutter  
(use within the calibrated cannula to  
obtain a 3mm core)
7. Socket wrench  
(used with either cutter)
8. Stylet  
(used to expel biopsy section)
9. Sharp worm hook  
(to withdraw soft tissue cuttings)

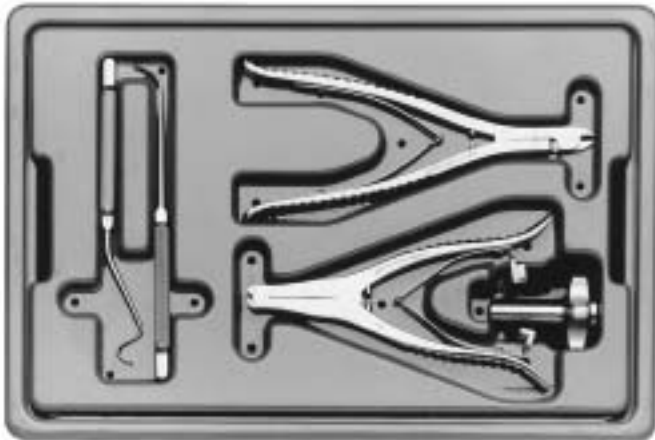
Components of this kit can be ordered  
separately from our repair department at  
800-343-5969



SPINE

# CERVICAL FIXATION CABLE, SOF'WIRE

---



## CODMAN SOF'WIRE® Cable System

Designed for internal, bony fixation including sublaminar interspinous fixation, non-displaced fractures, maxillo facial surgery, sternotomy closure. Consists of SOF'WIRE Cables and a complete set of instruments for application.

### SOF'WIRE Sterile Products:

#### Stainless Steel

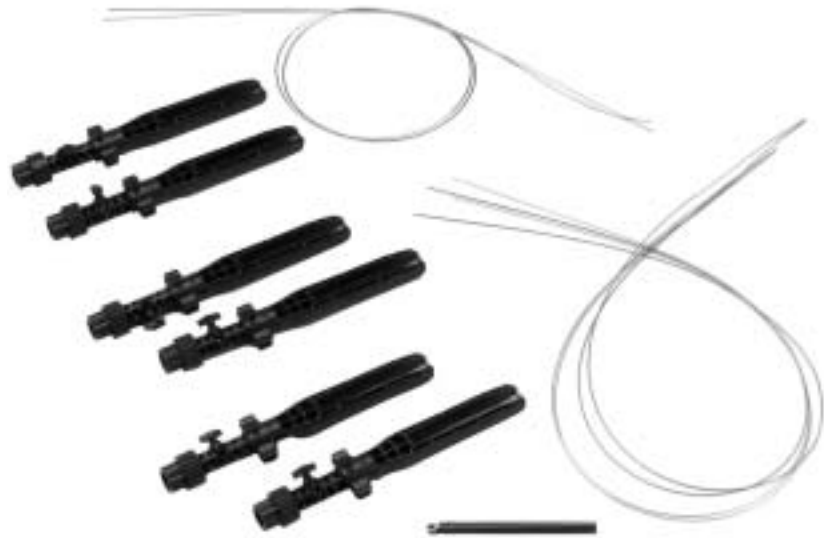
- 46-4038** SOF'WIRE Stainless Steel (10 each of 46-4018)
- 46-4019** SOF'WIRE Stainless Steel Single Cable with Leader, 1 Cinch and 1 Tightener
- 46-4021** SOF'WIRE Stainless Steel Double Cable with Central Leader, 2 Cinches and 2 Tighteners
- 46-4024** SOF'WIRE Stainless Steel Cinch Seat, 10 each

#### Titanium

- 46-4040** SOF'WIRE Titanium Single Cable with Leader, 1 Cinch and 1 Tightener
  - 46-4043** SOF'WIRE Titanium (10 each of 46-4040)
  - 46-4042** SOF'WIRE Titanium Double Cable with Central Leader, 2 Cinches and 2 Tighteners
  - 46-4025** SOF'WIRE Titanium Cinch Seat, 10 each
- 46-4010** CODMAN SOF'WIRE Instrument Set includes:
- 46-4012** SOF'WIRE Torque Driver
  - 46-4013** SOF'WIRE Cable Cutter
  - 46-4014** SOF'WIRE Cinch Pliers
  - 46-4100** CODMAN SOF'WIRE L-Curve Guide
  - 46-4101** CODMAN SOF'WIRE S-Curve Guide
  - 46-4011** SOF'WIRE Cable System Sterilization Tray
-

# CERVICAL FIXATION CABLE, SOF'WIRE

---



---

## SOF'WIRE® Sterile Products:

### Stainless Steel

- 46-4019** SOF'WIRE Stainless Steel Single Cable with Leader, 1 Cinch and 1 Tightener
- 46-4021** SOF'WIRE Stainless Steel Double Cable with Central Leader, 2 Cinches and 2 Tighteners
- 46-4024** SOF'WIRE Stainless Steel Cinch Seat, 10 each

### Titanium

- 46-4040** SOF'WIRE Titanium Single Cable with Leader, 1 Cinch and 1 Tightener
  - 46-4043** SOF'WIRE Titanium (10 each of 46-4040)
  - 46-4042** SOF'WIRE Titanium Double Cable with Central Leader, 2 Cinches and 2 Tighteners
  - 46-4025** SOF'WIRE Titanium Cinch Seat, 10 each
-

# CERVICAL FIXATION CABLE, SOF'WIRE

---



---

**46-4012** SOF'WIRE Torque Driver  
Designed to be used with the disposable  
CODMAN SOF'WIRE Tighteners (46-4018 and  
46-3038) if additional torque is required.

---



---

**46-4013** SOF'WIRE Cable Cutter  
Used to cut CODMAN SOF'WIRE Cable.

---



---

**46-4014** SOF'WIRE Cinch Pliers  
Designed to crimp the cinch/cable construct  
when using CODMAN SOF'WIRE Cable.

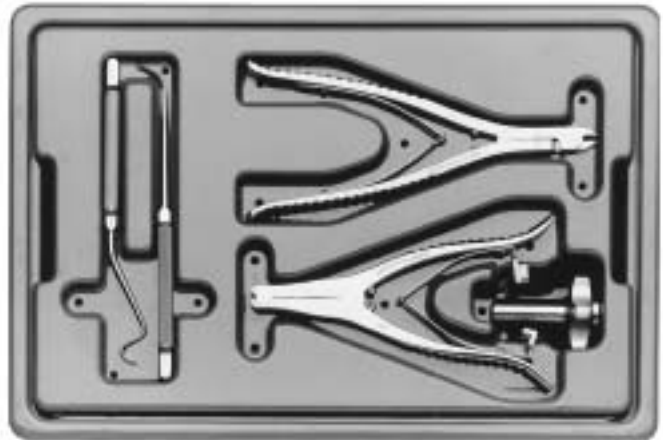
---

# CERVICAL FIXATION CABLE, SOF'WIRE

- 
- 46-4100** CODMAN SOF'WIRE Guides.  
20cm (8") instrument designed to assist the cervical spine surgeon in protective wire passage of C2–C7 vertebrae. Atraumatic end designed to dissect impeding ligamentous tissue. Suture hole for wire fixation.
- 46-4101** 20cm (8") instrument designed to assist the cervical spine surgeon in protective wire passage of C1 vertebrae. Uniquely shaped for C1 wire passage. Atraumatic end designed to dissect impeding ligamentous tissue. Suture hole for wire fixation.
- 



- 
- 46-4011** CODMAN SOF'WIRE Cable Instrument Tray  
For storage/sterilization.  
(Instruments not included.)
- 



# CERVICAL FIXATION ANTERIOR CERVICAL PLATE

---



- 
- |                |                               |
|----------------|-------------------------------|
| <b>46-4111</b> | 24mm Anterior Cervical Plate  |
| <b>46-4112</b> | 26mm Anterior Cervical Plate  |
| <b>46-4113</b> | 28mm Anterior Cervical Plate  |
| <b>46-4114</b> | 30mm Anterior Cervical Plate  |
| <b>46-4115</b> | 32mm Anterior Cervical Plate  |
| <b>46-4116</b> | 34mm Anterior Cervical Plate  |
| <b>46-4117</b> | 36mm Anterior Cervical Plate  |
| <b>46-4118</b> | 38mm Anterior Cervical Plate  |
| <b>46-4119</b> | 40mm Anterior Cervical Plate  |
| <b>46-4120</b> | 42mm Anterior Cervical Plate  |
| <b>46-4121</b> | 44mm Anterior Cervical Plate  |
| <b>46-4122</b> | 46mm Anterior Cervical Plate  |
| <b>46-4123</b> | 48mm Anterior Cervical Plate  |
| <b>46-4124</b> | 50mm Anterior Cervical Plate  |
| <b>46-4125</b> | 52mm Anterior Cervical Plate  |
| <b>46-4126</b> | 54mm Anterior Cervical Plate  |
| <b>46-4170</b> | 56mm Anterior Cervical Plate  |
| <b>46-4127</b> | 58mm Anterior Cervical Plate  |
| <b>46-4171</b> | 60mm Anterior Cervical Plate  |
| <b>46-4128</b> | 62mm Anterior Cervical Plate  |
| <b>46-4172</b> | 64mm Anterior Cervical Plate  |
| <b>46-4129</b> | 66mm Anterior Cervical Plate  |
| <b>46-4173</b> | 68mm Anterior Cervical Plate  |
| <b>46-4130</b> | 70mm Anterior Cervical Plate  |
| <b>46-4174</b> | 74mm Anterior Cervical Plate  |
| <b>46-4175</b> | 78mm Anterior Cervical Plate  |
| <b>46-4176</b> | 82mm Anterior Cervical Plate  |
| <b>46-4177</b> | 86mm Anterior Cervical Plate  |
| <b>46-4178</b> | 90mm Anterior Cervical Plate  |
| <b>46-4179</b> | 94mm Anterior Cervical Plate  |
| <b>46-4180</b> | 98mm Anterior Cervical Plate  |
| <b>46-4181</b> | 102mm Anterior Cervical Plate |
| <b>46-4182</b> | 106mm Anterior Cervical Plate |
| <b>46-4184</b> | 110mm Anterior Cervical Plate |
- 



- 
- |                |  |
|----------------|--|
| <b>46-4136</b> | CODMAN Anterior Cervical Plate Contouring Device |
|----------------|--|
-



# CERVICAL FIXATION ANTERIOR CERVICAL PLATE

- 46-4196** 12mm Standard Cancellous Bone Screw  
(1 per package)
- 46-4197** 15mm Standard Cancellous Bone Screw  
(1 per package)
- 46-4131** 12mm Standard Cancellous Bone Screw  
(4 per package)
- 46-4132** 15mm Standard Cancellous Bone Screw  
(4 per package)



- 46-4516** 12mm Self-Tapping Cancellous Bone Screw  
(1 per package)
- 46-4517** 15mm Self-Tapping Cancellous Bone Screw  
(1 per package)
- 46-4518** 12mm Self-Tapping Cancellous Bone Screw  
(4 per package)
- 46-4519** 15mm Self-Tapping Cancellous Bone Screw  
(4 per package)



- The self-tapping threads eliminate the tapping step and increase procedure efficiency.
- Two toned color scheme identifies self-tapping feature and screw length.
- Blunt tip minimizes tissue damage.

CODMAN ACP Temporary Fixation Pins. These pins are used during the implantation of Codman Anterior Cervical Plates. The Temporary Fixation Pins function as a temporary plate holding device during drilling, tapping and screw implantation. They may also be used to achieve strategic screw placement and to confirm plate sizing. The pins require no drilling or tapping and are inserted utilizing the CODMAN ACP Screwdriver (46-4141).

- 46-4514** CODMAN ACP Temporary Fixation Pin, Straight
- 46-4515** CODMAN ACP Temporary Fixation Pin, Bulbed
- 46-4533** CODMAN ACP Temporary Fixation Pin Caddy



- 46-4190** CODMAN Anterior Cervical Plate Forceps Plate Holder



# CERVICAL FIXATION ANTERIOR CERVICAL PLATE

---



The CODMAN® ACP Variable Depth System consists of a Drill/Guide Plate Holder, Drill, Tap, Depth Gauge, Screw Length Gauge, Instrumentation Tray and screw sizes from 10mm to 20mm. (See ordering information for product codes and quantities.)

The Variable Depth Instrumentation can be used with all screw lengths including the 12mm and 15mm screws.

The Variable Depth Instrument Tray (46-4164) will accommodate the existing instrument tray (46-4142), therefore providing all instrumentation to be contained in one tray. The Bender may be placed in this tray as well.

The additional screws will be placed in the existing screw container 46-4198 which resides in the plate sterilization tray (46-4195).

## **46-4163** CODMAN Variable Depth System

Includes:

### **Instrumentation**

- 46-4158** V.D. Drill
- 46-4159** V.D. Tap
- 46-4160** V.D. Drill Guide/Plate Holder
- 46-4161** V.D. Depth Gauge
- 46-4162** V.D. Screw Length Gauge
- 46-4164** V.D. Variable Depth Tray

### **Screws**

- 46-4146** 10mm Cancellous Bone Screw
  - 46-4196** 12mm Cancellous Bone Screw
  - 46-4194** 13mm Cancellous Bone Screw
  - 46-4147** 14mm Cancellous Bone Screw
  - 46-4197** 15mm Cancellous Bone Screw
  - 46-4148** 16mm Cancellous Bone Screw
  - 46-4150** 17mm Cancellous Bone Screw
  - 46-4151** 18mm Cancellous Bone Screw
  - 46-4152** 19mm Cancellous Bone Screw
  - 46-4153** 20mm Cancellous Bone Screw
-

# CERVICAL FIXATION ANTERIOR CERVICAL PLATE

**46-4165** CODMAN Anterior Cervical Plate  
Drill Guide/Plate Holder, Captured Assembly



**46-4134** CODMAN Anterior Cervical Plate  
Drill Bit (12mm)



**46-4135** CODMAN Anterior Cervical Plate  
Drill Bit (15mm)



**46-4137** CODMAN Anterior Cervical Plate  
Bone Tap (12mm)



**46-4138** CODMAN Anterior Cervical Plate  
Bone Tap (15mm)



**46-4139** CODMAN Anterior Cervical Plate  
CAM Tightener Assembly

Consists of:  
CAM Tightener Shaft  
CAM Tightener Handle  
Replacement CAM Tightener Shaft (46-4192)



SPINE

# CERVICAL FIXATION ANTERIOR CERVICAL PLATE

---



---

**46-4141** CODMAN Anterior Cervical Plate  
Screw Driver

---



---

**46-4145** CODMAN Anterior Cervical Plate  
Drill Guide

---



---

**46-4166** CODMAN Anterior Cervical Plate  
Dual Angle Drill Guide/Plate Holder,  
Captured Assembly

---

# CERVICAL FIXATION TI FRAME

CODMAN TI-FRAME is an implantable titanium device used for posterior cervical stabilization which allows for reduction and distraction of the spine without the use of screws or hooks. The TI-FRAME was designed exclusively for use with CODMAN SOF'WIRE™ Titanium Cables (46-4040, 46-4043, 46-4042, 46-4045, 46-4010). TI-FRAMES are available in different configurations: straight (STR) or curved (LC2 or LC4).

**46-4060** CODMAN TI-FRAME Kit

Kit includes:

- 46-4075** CODMAN TI-FRAME 4cm STR
- 46-4066** CODMAN TI-FRAME 4cm LC2
- 46-4061** CODMAN TI-FRAME 4cm LC4
- 46-4077** CODMAN TI-FRAME 6cm STR
- 46-4068** CODMAN TI-FRAME 6cm LC2
- 46-4063** CODMAN TI-FRAME 6cm LC4
- 46-4079** CODMAN TI-FRAME 8cm STR
- 46-4070** CODMAN TI-FRAME 8cm LC2
- 46-4065** CODMAN TI-FRAME 8cm LC4
- 46-4072** CODMAN TI-FRAME Sterilizing Case

Additional Ordering Information:

- 46-4040** SOF'WIRE Titanium Single Cable with Leader, 1 Cinch and 1 Tightener
- 46-4043** SOF'WIRE Titanium (10 each of 46-4040)
- 46-4042** SOF'WIRE Titanium Double Cable with Central Leader, 2 Cinches and 2 Tighteners
- 46-4045** SOF'WIRE Titanium Double Cable (10 each of 46-4042)
- 46-4010** SOF'WIRE Complete Instrument Kit



# CERVICAL FIXATION

## CODMAN ANTERIOR CERVICAL PLATE

---



The CODMAN Anterior Cervical Plate is designed for immediate internal fixation of the cervical spine following bone grafting procedures.

**46-4110** CODMAN Anterior Cervical Plate Kit Includes:

- 46-4111** 24mm Anterior Cervical Plate
- 46-4112** 26mm Anterior Cervical Plate
- 46-4113** 28mm Anterior Cervical Plate
- 46-4114** 30mm Anterior Cervical Plate
- 46-4115** 32mm Anterior Cervical Plate
- 46-4116** 34mm Anterior Cervical Plate
- 46-4117** 36mm Anterior Cervical Plate
- 46-4118** 38mm Anterior Cervical Plate
- 46-4119** 40mm Anterior Cervical Plate
- 46-4120** 42mm Anterior Cervical Plate
- 46-4121** 44mm Anterior Cervical Plate
- 46-4122** 46mm Anterior Cervical Plate
- 46-4123** 48mm Anterior Cervical Plate
- 46-4124** 50mm Anterior Cervical Plate
- 46-4125** 52mm Anterior Cervical Plate
- 46-4126** 54mm Anterior Cervical Plate
- 46-4170** 56mm Anterior Cervical Plate
- 46-4127** 58mm Anterior Cervical Plate
- 46-4171** 60mm Anterior Cervical Plate
- 46-4128** 62mm Anterior Cervical Plate
- 46-4172** 64mm Anterior Cervical Plate
- 46-4129** 66mm Anterior Cervical Plate
- 46-4173** 68mm Anterior Cervical Plate
- 46-4130** 70mm Anterior Cervical Plate
- 46-4174** 74mm Anterior Cervical Plate
- 46-4175** 78mm Anterior Cervical Plate
- 46-4176** 82mm Anterior Cervical Plate
- 46-4177** 86mm Anterior Cervical Plate
- 46-4178** 90mm Anterior Cervical Plate
- 46-4179** 94mm Anterior Cervical Plate
- 46-4180** 98mm Anterior Cervical Plate
- 46-4181** 102mm Anterior Cervical Plate
- 46-4182** 106mm Anterior Cervical Plate
- 46-4184** 110mm Anterior Cervical Plate

CODMAN Anterior Cervical Plate Kit (Continued)

- 46-4196** 12mm Standard Cancellous Bone Screw (1 per package)
- 46-4131** 12mm Standard Cancellous Bone Screw (4 per package)
- 46-4197** 15mm Standard Cancellous Bone Screw (1 per package)
- 46-4132** 15mm Standard Cancellous Bone Screw (4 per package)
- 46-4195** Plate Sterilization Tray
- 46-4198** Standard Screw Sterilization Tray

CODMAN Anterior Cervical Plate Placement Instruments

- 46-4165** Drill Guide/Plate Holder, Captured Assembly
- 46-4134** Drill Bit (12mm)
- 46-4135** Drill Bit (15mm)
- 46-4136** Plate Contouring Device
- 46-4137** Bone Tap (12mm)
- 46-4138** Bone Tap (15mm)
- 46-4139** Cam Tightener Assembly
- 46-4141** Screw Driver
- 46-4145** Drill Guide
- 46-4190** Forceps Plate Holder
- 46-4166** Dual Angle Drill Guide/Plate Holder, Captured Assembly
- 46-4142** Instrument Sterilization Tray

# CHISELS



---

<b>18-1011</b>	CODMAN Spinal Fusion Chisel, straight.
Blade width	$\frac{15}{64}$ " (6mm)
Length	$9\frac{1}{2}$ " (241mm)

---



---

	CODMAN Puka (Hole) Chisel
Length	9" (229mm)
Tip width	.4" (10mm)
<b>18-1014</b>	No. 1
<b>18-1015</b>	No. 2

---



---

<b>18-1020</b>	CODMAN-HARMON Chisel
Blade width	$\frac{15}{64}$ " (6mm)
Length	$9\frac{3}{4}$ " (248mm)

---



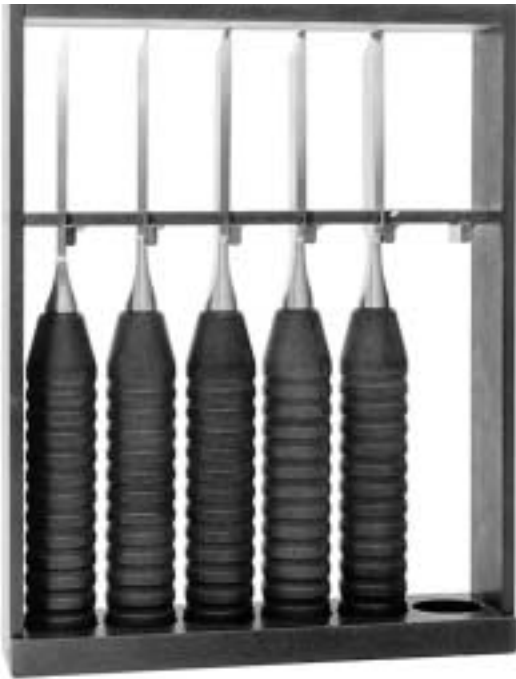
---

<b>18-1010</b>	D'ERRICO Lamina Chisel
Width	$\frac{1}{2}$ " (13mm)
Length	$7\frac{1}{2}$ " (191mm)

---

SPINE

# CHISELS



KARLIN™ MAGNUM Chisels,  
Black-handles, designed for use with a surgical  
mallet.

Length 10.75" (273mm)

Handle diameter 1.25" (32mm)

### Straight

**46-3100** Set of six with case

Includes:

**46-3101** 6mm

**46-3102** 10mm

**46-3103** 15mm

**46-3104** 20mm

**46-3105** 25mm

**46-3106** 30mm

**46-3107** Magnum instrument case for 6

### Curved

**46-3110** Set of six with case

Includes:

**46-3111** 6mm

**46-3112** 10mm

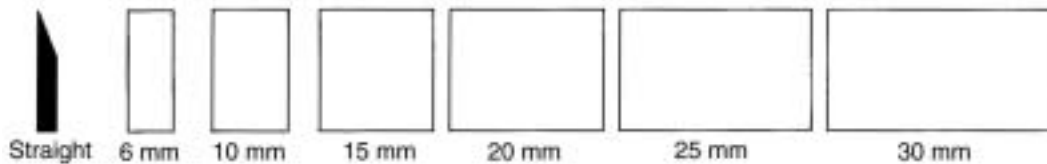
**46-3113** 15mm

**46-3114** 20mm

**46-3115** 25mm

**46-3116** 30mm

**46-3107** Magnum instrument case for 6

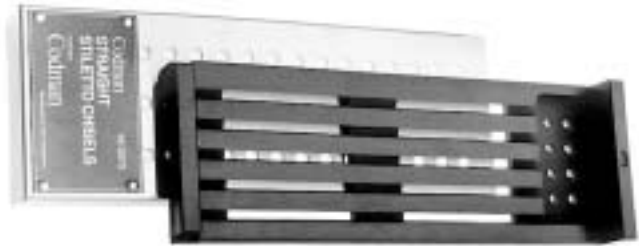




# CHISELS

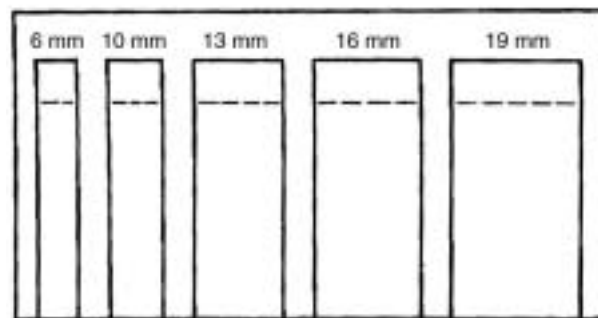
**46-3070** Straight Stiletto Chisel Set with Case  
 Length 8½" (216mm)  
 Set Includes:

- |  | Tip Size  |
|--|-----------|
| <b>46-3071</b> Chisel Straight                   | ¼" (6mm)  |
| <b>46-3072</b> Chisel Straight                   | ⅜" (10mm) |
| <b>46-3073</b> Chisel Straight                   | ½" (13mm) |
| <b>46-3074</b> Chisel Straight                   | ⅝" (16mm) |
| <b>46-3075</b> Chisel Straight                   | ¾" (19mm) |
| <b>46-3076</b> Case for Straight Stiletto Chisel |           |



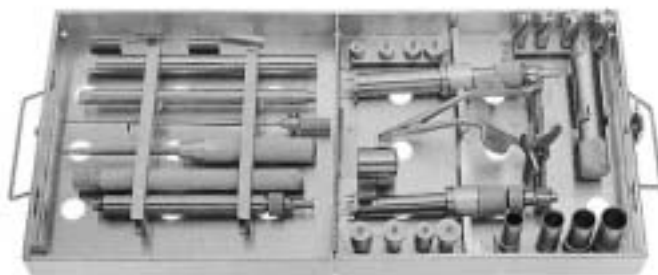
**46-3080** Curved Stiletto Chisel Set with Case  
 Length 8½" (216mm)  
 The Set Includes:

- |  | Tip Size  |
|--|-----------|
| <b>46-3081</b> Chisel Curved                   | ¼" (6mm)  |
| <b>46-3082</b> Chisel Curved                   | ⅜" (10mm) |
| <b>46-3083</b> Chisel Curved                   | ½" (13mm) |
| <b>46-3084</b> Chisel Curved                   | ⅝" (16mm) |
| <b>46-3085</b> Chisel Curved                   | ¾" (19mm) |
| <b>46-3086</b> Case for Curved Stiletto Chisel |           |



SPINE

# CODMAN SPINAL FUSION ANTERIOR CERVICAL FUSION KIT



**80-1004** The CODMAN Anterior Fusion Kit, for removal of ruptured cervical disc lesions and osteophytes by an anterior surgical approach.

## CODMAN ANTERIOR CERVICAL FUSION KIT, with Case

<b>80-1004</b>	CODMAN Anterior Fusion Kit, with case. CODMAN Anterior Fusion Kit includes:
<b>21-1001</b>	CODMAN Instrument Case
<b>11-1002</b>	CODMAN Cross Bar Handle (Two Each) CODMAN Dowel Cutter
<b>56-1005</b>	Diameter 12mm
<b>56-1006</b>	Diameter 14mm
<b>56-1007</b>	Diameter 16mm
<b>56-1008</b>	Diameter 18mm CODMAN Dowel Cutter Center Pins
<b>47-1010</b>	Diameter 12mm
<b>47-1011</b>	Diameter 14mm
<b>47-1012</b>	Diameter 16mm
<b>47-1013</b>	Diameter 18mm
<b>11-1019</b>	CODMAN Dowel Cutter Shaft
<b>80-1001</b>	CODMAN Dowel Ejector
<b>11-1011</b>	CODMAN Dowel Handle and Ejector CODMAN Drill Tips
<b>26-1265</b>	10mm
<b>26-1266</b>	12mm
<b>26-1267</b>	14mm
<b>26-1268</b>	16mm CODMAN Cervical Drill Guards
<b>12-1005</b>	Small
<b>12-1006</b>	Large
<b>12-1007</b>	CODMAN Drill Guard Cap CODMAN Drill Shaft
<b>28-1001</b>	Small
<b>28-1002</b>	Large
<b>65-1064</b>	CODMAN Osteophyte Periosteal Elevator
<b>39-1012</b>	CODMAN Depth Gauge CODMAN Guard Guide, double ended.
<b>14-1043</b>	Small
<b>14-1044</b>	Large
<b>61-1004</b>	CODMAN Vertebra Spreader
<b>80-1012</b>	CODMAN Spanner Wrench

## CODMAN ANTERIOR CERVICAL FUSION KIT, Accessories

<b>26-1041</b>	HUDSON Brace Spinal Fusion Curettes Straight
<b>23-1041</b>	No. 000
<b>23-1042</b>	No. 00
<b>23-1043</b>	No. 0 Angled
<b>23-1051</b>	No. 000
<b>23-1052</b>	No. 00
<b>23-1053</b>	No. 0 CODMAN Periosteal Elevators
<b>65-1056</b>	No. 1
<b>65-1057</b>	No. 2
<b>65-1058</b>	No. 3
<b>65-1121</b>	Curved
<b>30-1203</b>	D'ERRICO Bayonet Dressing Forceps
<b>88-1005</b>	CODMAN Cervical Hammer,small
<b>11-5535</b>	Knife Handle, No.3L
<b>38-1038</b>	CODMAN Cautery Hook
<b>18-1013</b>	CODMAN Cervical Osteotome, curved CODMAN Cervical Punches, 40°
<b>51-1087</b>	Cup size 3mm
<b>51-1008</b>	Cup size 5mm
<b>50-1180</b>	ADSON Cerebellar Retractor
<b>50-1050</b>	CODMAN Blade Retractor, 18mm
<b>50-1052</b>	CODMAN Blade Retractor, 20mm
<b>50-1053</b>	CODMAN Blade Retractor, 23mm
<b>50-1380</b>	CODMAN Cervical Retractor,large, with set of seven sharp blades
<b>50-1390</b>	CODMAN Cervical Retractor,large, with set of seven blunt blades
<b>50-1022</b>	CODMAN Vein Retractor
<b>50-1224</b>	CODMAN Skin Retractor, 1 x 1 prong
<b>50-4071</b>	U.S. Army Retractor, set of two CODMAN IVD Rongeurs
<b>53-1171</b>	Cup size 4mm x 8mm
<b>53-1220</b>	Cup size 6mm x 10mm
<b>54-1015</b>	MALIS Nuerosurgical Scissors

# CODMAN SPINAL FUSION ANTERIOR CERVICAL FUSION KIT

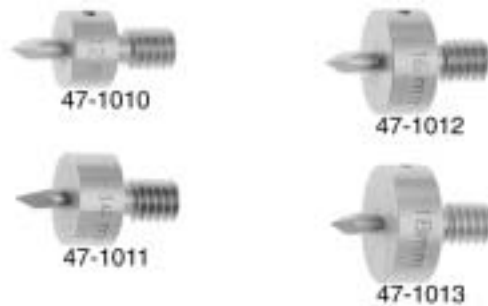
**11-1002** CODMAN Cross Bar Handle  
Inside diameter  $\frac{7}{8}$ " (22mm)



CODMAN Dowel Cutters  
Diameter  
**56-1005** 12mm (use 26-1265 drill size.)  
**56-1006** 14mm (use 26-1266 drill size.)  
**56-1007** 16mm (use 26-1267 drill size.)  
**56-1008** 18mm (use 26-1268 drill size.)



CODMAN Dowel Cutter Center Pins  
Pin diameter  
Diameter  
**47-1010** 12mm  
**47-1011** 14mm  
**47-1012** 16mm  
**47-1013** 18mm



**11-1019** CODMAN Dowel Cutter Shaft  
Length  $6\frac{1}{2}$ " (165mm)



**80-1001** CODMAN Dowel Ejector  
Length  $4\frac{1}{2}$ " (114mm)



# CODMAN SPINAL FUSION ANTERIOR CERVICAL FUSION KIT



<b>11-1011</b>	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	



	CODMAN Cervical Drill tips		
	Diameter		
<b>26-1265</b>	10mm		
<b>26-1266</b>	12mm		
<b>26-1267</b>	14mm		
<b>26-1268</b>	16mm		



	CODMAN Cervical Drill Guards, with bone relief, and four pins.		
<b>12-1005</b>	Length	4 1/16"	(103mm)
	Small Diameter	13mm	
<b>12-1006</b>	Large Diameter	16mm	



<b>12-1007</b>	CODMAN Drill Guard Cap		
	Length	1 1/4"	(32mm)
	Diameter	1"	(25mm)

# CODMAN SPINAL FUSION ANTERIOR CERVICAL FUSION KIT

- 28-1001** CODMAN Drill Shafts, with depth stop.  
Length  $5\frac{9}{16}$ " (141mm)  
Small (to hold 26-1265 or 26-1266)  
Diameter 13mm
- 28-1002** Large (to hold 26-1267 or 26-1268)  
Diameter 16mm



- 65-1064** CODMAN Osteophyte Periosteal Elevator  
Length 8" (203mm)

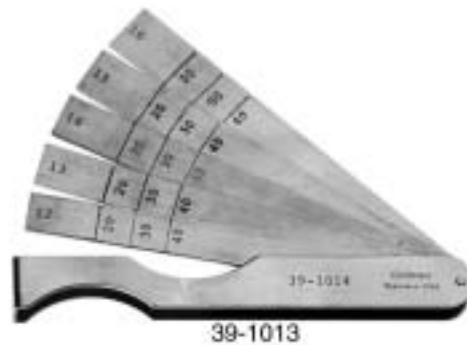


- 39-1012** CODMAN Depth Gauge  
Length  $8\frac{3}{8}$ " (213mm)
- 39-1013** CODMAN Spanner Gauge, small.  
Length  $5\frac{1}{8}$ " (130mm)



- 39-1013** CODMAN Spanner Gauge, small.  
Length  $5\frac{1}{8}$ " (130mm)  
Width 7mm  
8mm  
9mm  
10mm  
11mm

- 39-1014** CODMAN Spanner Gauge, large.  
Length  $5\frac{1}{8}$ " (130mm)  
Width 12mm  
13mm  
14mm  
15mm  
16mm



- 14-1043** CODMAN Guard Guides, double ended.  
Length  $7\frac{1}{2}$ " (190mm)  
Diameter  $\frac{3}{8}$ " (9.5mm)
- 14-1044** Diameter  $\frac{1}{2}$ " (13mm)



# CODMAN SPINAL FUSION ANTERIOR CERVICAL FUSION KIT

---



- 
- |                |  |
|----------------|--|
| <b>61-1004</b> | CODMAN Vertebra Spreader #1, with ratchet. |
| Total length   | 5" (127mm)                                 |
| Total opening  | 3/4" (19mm)                                |
| <b>61-1005</b> | CODMAN Vertebra Spreader #2, with ratchet. |
| Total length   | 3" (76mm)                                  |
| Total opening  | 1 1/2" (38mm)                              |
- 



- 
- |                |                       |
|----------------|-----------------------|
| <b>80-1012</b> | CODMAN Spanner Wrench |
|----------------|-----------------------|
-

# CODMAN SPINAL FUSION POSTERIOR LUMBAR INTERBODY FUSION KIT (PLIF)

The CODMAN PLIF Instruments represent a coordinated instrument approach for surgical procedures treating lesions of the lumbar intervertebral discs.

- I. Lumbar Disc Lesions
- II. Spondylolisthesis
- III. Spinal Stenosis

CODMAN Posterior Lumbar Interbody Fusion (PLIF) Instruments

- 18-1020 CODMAN Chisel
- 18-1014 CODMAN Puka (Hole) Chisel No. 1
- 18-1015 CODMAN Puka (Hole) Chisel No. 2
- 11-1040 CODMAN Puka Chisel Handle
- 39-1012 CODMAN Depth Gauge
- 39-1014 CODMAN Spanner Gauge
- 88-1006 CODMAN Hammer, large
- 51-1010 CODMAN Dowel Impactor, round
- 51-1011 CODMAN Square Punch, stepped down
- 51-1012 CODMAN Bone Punch
- 50-1249 CODMAN Lumbar Lamina Retractor Body
- 50-1342 CODMAN Lumbar Lamina Blades, five prong, short, 2 ea.
- 50-1343 CODMAN Lumbar Lamina Blades, five prong, long, 2 ea.
- 50-1105 CODMAN Dural Retractor, self-retaining with three malleable blades.
- 61-1026 CODMAN Lumbar Interbody Spreader #2
- 61-1025 CODMAN Lumbar Lamina Spreader #1



- 18-1020 CODMAN-HARMON Chisel
- Blade width  $1\frac{5}{64}$ " (6mm)
- Length  $9\frac{3}{4}$ " (248mm)

- CODMAN Puka (Hole) Chisel
- Length 9" (229mm)
- Tip width .4" (10mm)
- 18-1014 No. 1
- 18-1015 No. 2



SPINE

# CODMAN SPINAL FUSION POSTERIOR LUMBAR INTERBODY FUSION KIT (PLIF)

---




---

**11-1040** CODMAN Puka Chisel Handle  
Length 4" (102mm)

---

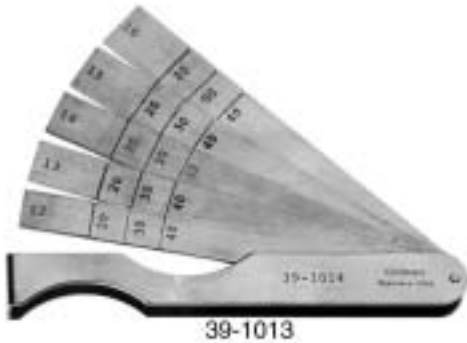



---

**39-1012** CODMAN Depth Gauge  
Length 8<sup>3</sup>/<sub>8</sub>" (213mm)

**39-1013** CODMAN Spanner Gauge, small.  
Length 5<sup>1</sup>/<sub>8</sub>" (130mm)

---




---

**39-1013** CODMAN Spanner Gauge, small.  
Length 5<sup>1</sup>/<sub>8</sub>" (130mm)  
Width (7mm)  
(8mm)  
(9mm)  
(10mm)  
(11mm)

**39-1014** CODMAN Spanner Gauge, large.  
Length 5<sup>1</sup>/<sub>8</sub>" (130mm)  
Width (12mm)  
(13mm)  
(14mm)  
(15mm)  
(16mm)

---



# CODMAN SPINAL FUSION POSTERIOR LUMBAR INTERBODY FUSION KIT (PLIF)

---



<b>88-1005</b>	CODMAN Hammer		
	Small face diameter	$\frac{3}{4}$ "	(19mm)
	Ball peen		
	Face diameter	$1\frac{1}{16}$ "	(11mm)
	Weight	8 oz.	(227 gm)
	Length	$7\frac{1}{2}$ "	(191mm)
<b>88-1006</b>	CODMAN Hammer		
	Large face diameter	1"	(25.4mm)
	Ball peen		
	Face diameter	$\frac{7}{8}$ "	(22mm)
	Weight	13 oz.	(368 gm)
	Length	9"	(229mm)

---



<b>51-1010</b>	CODMAN Dowel Impactor, round.		
	Diameter		8mm
	Length	9"	(229mm)

---



<b>51-1011</b>	CODMAN Square Punch, stepped down.		
	Tip width		13mm
	Length	9"	(229mm)

---



<b>51-1012</b>	CODMAN Bone Punch		
	Length	$9\frac{3}{8}$ "	(238mm)

---

SPINE

# CODMAN SPINAL FUSION POSTERIOR LUMBAR INTERBODY FUSION KIT (PLIF)

---



<b>50-1105</b>	CODMAN Dural Retractor, self-retaining with three malleable blades.		
	Blade length	4"	(102mm)
	Length	8¼"	(210mm)
	Blade width	11mm	
	Blade width	13mm	
	Blade width	15mm	

---



	CODMAN Retractor Blades, sharp, five prong. Blade width tapers from 2" (51mm) to 1" (25mm).		
<b>50-1342</b>	Prong depth	2"	(51mm)
<b>50-1343</b>	Prong depth	2½"	(64mm)

---



<b>50-1249</b>	CODMAN Lumbar Retractor Body, self-retaining. Use 5-1342, 50-1343 blades with 50-1249 Lumbar Retractor.		
	Length	9"	(229mm)
	Total opening	5"	(127mm)

---

# CODMAN SPINAL FUSION POSTERIOR LUMBAR INTERBODY FUSION KIT (PLIF)

---

<b>61-1025</b>	Codman Lumbar Lamina Spreader #1
	Arm length 3½" (89mm)
	Total opening 1½" (38mm)
<b>61-1026</b>	Codman Lumbar Lamina Spreader #2
	Arm length 4¼" (108mm)
	Total opening 1⅝" (28mm)

---



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

Kit includes:

<b>21-1006</b>	CODMAN PLIF II Instrument Case
<b>23-1020</b>	CODMAN CONE Ring Curettes
	7mm, angled 50°
	CODMAN Elevators
<b>65-1056</b>	4mm, sharp
<b>65-1057</b>	6mm, sharp
<b>65-1058</b>	8mm, sharp
<b>65-1059</b>	12mm, sharp
<b>65-1121</b>	¾", sharp periosteal
	CODMAN Osteotomes
<b>46-1019</b>	10mm, 9½", straight
<b>46-1020</b>	6mm, 7½", curved
<b>46-1021</b>	6mm, 7½", straight
<b>46-1022</b>	8mm, 9½", straight
<b>46-1023</b>	8mm, 9½", full curved
<b>46-1024</b>	6mm, 9½", slightly curved
<b>46-1025</b>	6mm, 9½", straight
<b>46-1062</b>	6mm, 9½", curved
<b>50-1362</b>	CODMAN ADSON Retractor
<b>50-1209</b>	CODMAN Flexible Nerve Root Retractor

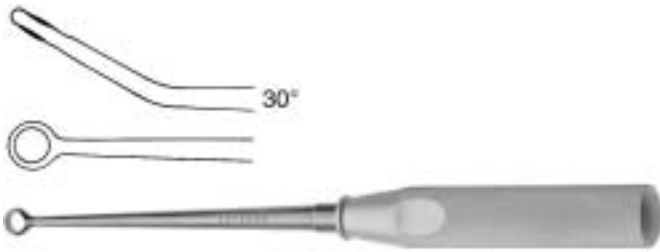
---



SPINE

# CODMAN SPINAL FUSION POSTERIOR LUMBAR INTERBODY FUSION KIT (PLIF)

---



CODMAN-CONE Ring Curettes			
<b>23-1020</b>	Angled 5°		
	Ring diameter (I.D.)	5/16"	(8mm)
	Total length	9"	(229mm)
<b>23-1021</b>	Angled 30°		
	Ring diameter (I.D.)	5/16"	(8mm)
	Total length	9"	(229mm)

---



CODMAN Periosteal Elevators, sharp.			
	Length	8"	(203mm)
	Tip width		
<b>65-1056</b>		3/16"	(5mm)
<b>65-1057</b>		1/4"	(6.4mm)
<b>65-1058</b>		5/16"	(8mm)
<b>65-1059</b>		15/32"	(12mm)

---



<b>65-1121</b>	CODMAN Periosteal Elevator, sharp.		
	Blade width	3/16"	(5mm)
	Length	8"	(203mm)

---

# CODMAN SPINAL FUSION POSTERIOR LUMBAR INTERBODY FUSION KIT (PLIF)



## CODMAN Spinal Fusion Osteotomes

		Blade Width	Length	
<b>46-1020</b>	Curved	6mm	7½"	(190mm)
<b>46-1021</b>	Straight	6mm	7½"	(190mm)
<b>46-1022</b>	Straight	8mm	9½"	(241mm)
<b>46-1023</b>	Full curved	8mm	9½"	(241mm)
<b>46-1024</b>	Slightly curved	6mm	9½"	(241mm)
<b>46-1025</b>	Straight	6mm	9½"	(241mm)
<b>46-1026</b>	Curved	6mm	9½"	(241mm)
<b>46-1019</b>	Straight	10mm	9½"	(241mm)

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



<b>50-1209</b>	CODMAN Flexible Nerve Root Retractor			
	Length	8½"		(210mm)
	Blade length	1"		(26mm)
	Blade width	5/16"		(8mm)



# CODMAN INSTRUMENTS



**18-1013** CODMAN Osteotome  
Blade width 4mm  
Length 7" (178mm)



**18-1011** CODMAN Spinal Fusion Chisel, straight.  
Blade width  $\frac{15}{64}$ " (6mm)  
Length  $9\frac{1}{2}$ " (241mm)



**39-1015** CODMAN LW Gauge  
Designed to be used anywhere on the spine to measure the length and width of a space.



**38-1038** CODMAN Dural Hook, sharp.  
Length  $6\frac{1}{2}$ " (165mm)  
Tip Diameter (2mm)



**28-1000** CODMAN Bone Graft Impactor, double ended.  
End diameter  $\frac{7}{16}$ " (11mm)  
End diameter  $\frac{9}{16}$ " (14mm)  
Length  $8\frac{3}{4}$ " (222mm)



**28-1003** CODMAN Bone Graft Impactor and Holder  
Length  $8\frac{3}{4}$ " (222mm)



<b>88-1005</b>	CODMAN Hammer		
	Small face diameter	3/4"	(19mm)
	Ball peen		
	Face diameter	1 1/16"	(11mm)
	Weight	8 oz.	(227 gm)
	Length	7 1/2"	(191mm)
<b>88-1006</b>	CODMAN Hammer		
	Large face diameter	1"	(25.4mm)
	Ball peen		
	Face diameter	7/8"	(22mm)
	Weight	13 oz.	(368 gm)
	Length	9"	(229mm)

	CODMAN Blade Retractors		
	Blade length	3"	(76mm)
	Handle length	4 1/2"	(114mm)
<b>50-1050</b>	Blade width		18mm
<b>50-1052</b>	Blade width		20mm
<b>50-1053</b>	Blade width		23mm



# CODMAN INSTRUMENTS

---



- 
- 50-1380** CODMAN Cervical Retractor Set, large, self-retaining, with 7 pairs of sharp blades.  
Length 10" (254mm)  
Total opening 4½" (114mm)  
Includes the following:
- 50-1346** CODMAN Cervical Retractor Body, large.  
CODMAN Retractor Blades, sharp, four prongs.  
Prong Depth  
Prong width 20mm
- 50-1381** 25mm  
**50-1382** 30mm  
**50-1383** 35mm  
**50-1384** 40mm  
**50-1385** 45mm  
**50-1386** 50mm  
**50-1387** 55mm
-



- 
- 50-1388** CODMAN Single Tooth Retractor Blade  
35mm  
**50-1389** 45mm  
Used with 50-1830 CODMAN Cervical Retractor, Large or 50-1390 Codman Cervical Retractor, Small.
- 



- 
- 50-1390** CODMAN Cervical Retractor Set, small, self-retaining, with 7 pairs of blunt blades.  
Length 6" (152mm)  
Total opening 3¾" (95mm)  
Includes the following:
- 50-1356** CODMAN Cervical Retractor Body, small.  
CODMAN Retractor Blades, blunt.  
Blade depth
- 50-1391** 25mm  
**50-1392** 30mm  
**50-1393** 35mm  
**50-1394** 40mm  
**50-1395** 45mm  
**50-1396** 50mm  
**50-1397** 55mm
- 



# CODMAN INSTRUMENTS



<b>50-1022</b>	CODMAN-CUSHING Vein Retractor	
	Blade width	9.5mm
	Blade depth	6.4mm
	Length	7 <sup>3</sup> / <sub>4</sub> " (197mm)



50-1223



50-1224

	CODMAN Tissue Retractors	
	Length	5 <sup>1</sup> / <sub>4</sub> " (133mm)
	Total opening	2 <sup>1</sup> / <sub>2</sub> " (64mm)
<b>50-1223</b>	3x3 blunt prongs	
	Prong width	1/2" (13mm)
	Prong depth	5/8" (16mm)
<b>50-1224</b>	1x1 blunt prongs	
	Prong depth	1/2" (13mm)

51-1085 51-1086 51-1087 51-1088



---

	CODMAN Laminectomy Rongeurs, 40° angle.		
	Shaft length	6 <sup>7</sup> / <sub>8</sub>	(175mm)
<b>51-1085</b>	Bite		3mm
<b>51-1086</b>	Bite		5mm
	Shaft length	8	(203mm)
<b>51-1087</b>	Bite		3mm
<b>51-1088</b>	Bite		5mm

---

# CODMAN INSTRUMENTS



CODMAN Intervertebral Disc Rongeurs		
	Cup	6x10mm (152mm)
	Shaft length	6"
<b>53-1221</b>	Straight	
<b>53-1222</b>	Curved up	
<b>53-1223</b>	Curved down	



CODMAN Intervertebral Disc Rongeurs		
	Shaft length	7" (178mm)
<b>53-1171</b>	Cup	4x8mm
<b>53-1220</b>	Cup	6x10mm
<b>53-1225</b>	Cup	6x12mm

---

<b>61-1004</b>	CODMAN Vertebra Spreader #1, with ratchet.
Total length	5" (127mm)
Total opening	3/4" (19mm)
<b>61-1005</b>	CODMAN Vertebra Spreader #2, with ratchet.
Total length	3" (76mm)
Total opening	1 1/2" (38mm)

---



61-1004



61-1005

# CURETTES



Full Size



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



CONE Ring Curettes		
	Length	(229mm)
<b>23-1013</b>	Straight No. 1	9"
	Ring diameter (I.D.)	5/16" (8mm)
<b>23-1014</b>	Straight No. 2	9"
	Ring diameter (I.D.)	1/4" (6mm)
<b>23-1015</b>	Straight No. 3	9"
	Ring diameter (I.D.)	1/8" (3mm)



CONE Ring Curettes, Angular 35°		
	Length	(229mm)
<b>23-1016</b>	No. 1	9"
	Ring diameter (I.D.)	5/16" (8mm)
<b>23-1017</b>	No. 2	9"
	Ring diameter (I.D.)	1/4" (6mm)
<b>23-1018</b>	No. 3	9"
	Ring diameter (I.D.)	1/8" (3mm)



EPSTEIN Curettes		
	Length	(203mm)
<b>23-1130</b>	No. 000	2.0mm
<b>23-1131</b>	No. 00	2.5mm
<b>23-1132</b>	No. 0	3.0mm

# CURETTES

KARLIN Cervical Microdissection Instruments  
Offset, blade handles, tip configuration marked  
on handle

Length 8½" (21cm)

**46-3150** Set of 24 instruments with 2 cases.

Includes:

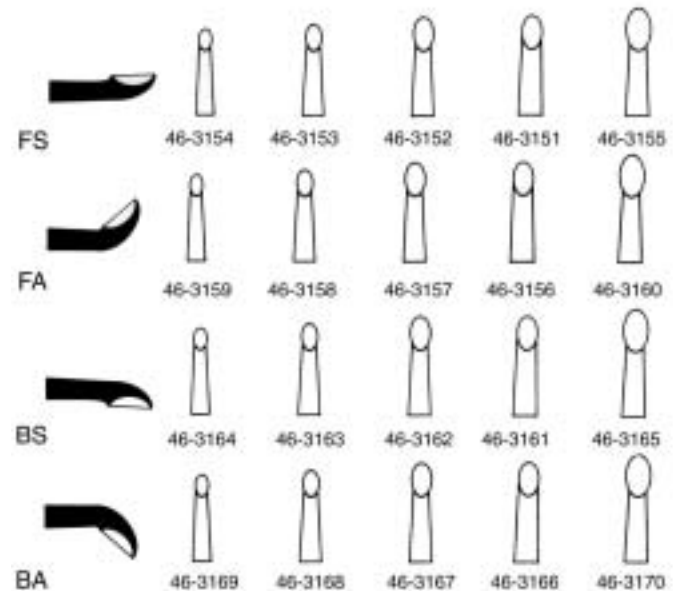
- 46-3151** Curette, Forward Straight, 0
- 46-3152** Curette, Forward Straight, 00
- 46-3153** Curette, Forward Straight, 000
- 46-3154** Curette, Forward Straight, 0000
- 46-3155** Curette, Forward Straight, Cortical Bone Cutter
- 46-3156** Curette, Forward Angle, 0
- 46-3157** Curette, Forward Angle, 00
- 46-3158** Curette, Forward Angle, 000
- 46-3159** Curette, Forward Angle, 0000
- 46-3160** Curette, Forward Angle, Cortical Bone Cutter
- 46-3161** Curette, Backward Straight, 0
- 46-3162** Curette, Backward Straight, 00
- 46-3163** Curette, Backward Straight, 000
- 46-3164** Curette, Backward Straight, 0000
- 46-3165** Curette, Backward Straight, Cortical Bone Cutter
- 46-3166** Curette, Backward Angle, 0
- 46-3167** Curette, Backward Angle, 00
- 46-3168** Curette, Backward Angle, 000
- 46-3169** Curette, Backward Angle, 0000
- 46-3170** Curette, Backward Angle, Cortical Bone Cutter
- 46-3171** Micro Nerve Hook
- 46-3172** Ultra Micro Nerve Hook
- 46-3174** Knife Handle
- 46-3173** Cervical Bone Waxer
- 46-3175** Storage/Sterilization Case for 12 instruments
- 46-3177** KARLIN Micro Knife Blade, 2.0mm
- 46-3178** KARLIN Ultra Knife Blade, 1.5mm

KARLIN Ultra Cervical Microdissection  
Instruments

Length 8½" (21cm)

**46-3180** Set of 4 curettes with case for 4 instruments

**46-3181** Storage/Sterilizing Case for 4 instruments



SPINE

# CURETTES



KARLIN Lumbar Microdiscectomy Instruments offset, black handles, tip configuration marked on handle.

Length 9½" (24.13cm)

**46-3120** Set of 24 instruments with 2 cases

Includes:

- 46-3121** Curette, forward straight, 0
- 46-3122** Curette, forward straight, 1
- 46-3123** Curette, forward straight, 2
- 46-3124** Curette, forward angle, 0
- 46-3125** Curette, forward angle, 1
- 46-3126** Curette, forward angle, 2
- 46-3127** Curette, forward down, 0
- 46-3128** Curette, forward down, 1
- 46-3129** Curette, forward down, 2
- 46-3130** Curette, backward straight, 0
- 46-3131** Curette, backward straight, 1
- 46-3132** Curette, backward straight, 2
- 46-3133** Curette, backward angle, 0
- 46-3134** Curette, backward angle, 1
- 46-3135** Curette, backward angle, 2
- 46-3136** Curette, backward down, 0
- 46-3137** Curette, backward down, 1
- 46-3138** Curette, backward down, 2
- 46-3139** Penfield Dissector #1
- 46-3140** Penfield Dissector #2
- 46-3141** Nerve Hook
- 46-3142** Penfield Dissector #4
- 46-3143** Bone Waxer
- 46-3144** Spine Probe
- 46-3145** Storage/Sterilizing Case for 12 instruments



BS 2



BA 2



BD 2



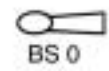
BS 1



BA 1



BD 1



BS 0



BA 0



BD 0

Backward  
Straight (BS)

Backward  
Angle (BA)

Backward  
Down (BD)



FS 2



FA 2



FD 2



FS 1



FA 1



FD 1



FS 0



FA 0



FD 0

Forward  
Straight (FS)

Forward  
Angle (FA)

Forward  
Down (FD)



# CURETTES

- 46-2625** KARLIN XL Cervical Microdiscectomy Kit  
(Set of 24 Instruments with 2 Cases)  
The KARLIN Extra Long Cervical Microdiscectomy Instruments were developed to support the extra length required when working under a microscope. They optimize visualization through their bayonet design and satin black handles  
46-3150)  
Instrument length 9.5" (24cm)  
Working distance 4.1" (10.4cm)  
Handle width 0.6" (1.5cm)  
Includes the following:
- 46-2626** XL Cervical Curette, Forward Straight, 0  
**46-2627** XL Cervical Curette, Forward Straight, 00  
**46-2628** XL Cervical Curette, Forward Straight, 000  
**46-2629** XL Cervical Curette, Forward Straight, 0000  
**46-2630** XL Cervical Curette, Forward Straight, Cortical Bone Cutter  
**46-2631** XL Cervical Curette, Forward Angle, 0  
**46-2632** XL Cervical Curette, Forward Angle, 00  
**46-2633** XL Cervical Curette, Forward Angle, 000  
**46-2634** XL Cervical Curette, Forward Angle, 0000  
**46-2635** XL Cervical Curette, Forward Angle, Cortical Bone Cutter  
**46-2636** XL Cervical Curette, Backward Straight, 0  
**46-2637** XL Cervical Curette, Backward Straight, 00  
**46-2638** XL Cervical Curette, Backward Straight, 000  
**46-2639** XL Cervical Curette, Backward Straight, 0000  
**46-2640** XL Cervical Curette, Backward Straight, Cortical Bone Cutter  
**46-2641** XL Cervical Curette, Backward Angle, 0  
**46-2642** XL Cervical Curette, Backward Angle, 00  
**46-2643** XL Cervical Curette, Backward Angle, 000  
**46-2644** XL Cervical Curette, Backward Angle, 0000  
**46-2645** XL Cervical Curette, Backward Angle, Cortical Bone Cutter  
**46-2646** XL Cervical Micro Nerve Hook  
**46-2647** XL Cervical Ultra Micro Nerve Hook  
**46-2648** XL Cervical Bone Waxer  
**46-3174** KARLIN Micro-Knife Handle  
**46-3145** Storage/Sterilizing Case for 12 Instruments  
(2 provided with Kit)



SPINE

# CURETTES

---



**46-3410** PG MAGNUM Cup Curettes  
Large capacity cup sizes permit rapid tissue removal:

Set of 12 Cup Curettes with Case includes:

- 46-3411** Cup Curette, Forward, Str. 7mm
- 46-3412** Cup Curette, Forward, Str. 9mm
- 46-3413** Cup Curette, Forward, Str. 11mm
- 46-3414** Cup Curette, Forward, Str. 13mm
- 46-3415** Cup Curette, Forward, Str. 15mm
- 46-3416** Cup Curette, Forward, Str. 17mm
- 46-3417** Cup Curette, Forward, Str. 19mm
- 46-3418** Cup Curette, Forward, Ang. 7mm
- 46-3419** Cup Curette, Forward, Ang. 9mm
- 46-3420** Cup Curette, Forward, Ang. 11mm
- 46-3421** Cup Curette, Forward, Down Pushing 7mm
- 46-3422** Cup Curette, Forward, Down Pushing 9mm

Total length	12.6"	(32cm)
Handle length	7.8"	(20cm)
Handle diameter	1.12"	(3cm)
Working distance	4.7"	(12cm)

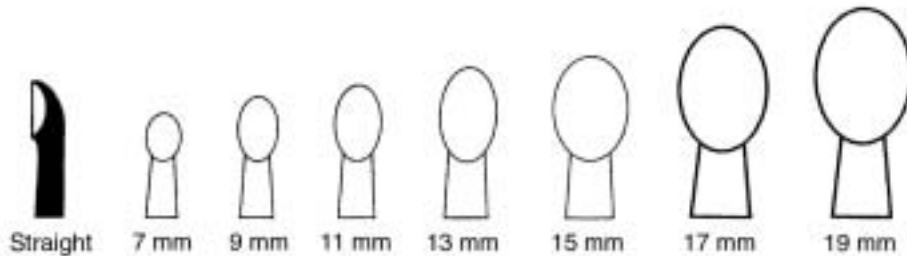
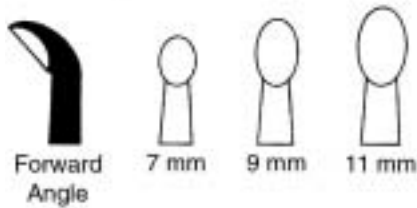
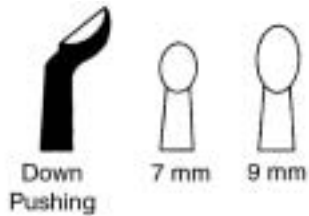
---

# CURETTES

KARLIN XL MAGNUM Cup Curettes  
Extra Long (XL) curettes, black handles,  
lightweight

Length 13¼" (33.7cm)  
Handle length 8½" (21cm)  
Handle diameter 1¼" (32cm)

- 46-3225** XL MAGNUM Cup curettes with case  
Includes:
- 46-3226** Curette forward straight (7mm)
  - 46-3227** Curette forward straight (9mm)
  - 46-3228** Curette forward straight (11mm)
  - 46-3229** Curette forward straight (13mm)
  - 46-3230** Curette forward straight (15mm)
  - 46-3236** Curette forward, straight (17mm)
  - 46-3237** Curette forward, straight (19mm)
  - 46-3231** Curette forward angle (7mm)
  - 46-3232** Curette forward angle (9mm)
  - 46-3233** Curette forward angle (11mm)
  - 46-3234** Curette down pushing (7mm)
  - 46-3235** Curette down pushing (9mm)
  - 46-3222** Storage/sterilizing case for 12 XL MAGNUM instruments



SPINE

# CURETTES

---



**46-3400** PG MAGNUM Ring Curettes  
Unique, broad-neck fulcrum provides atraumatic leverage on opposing vertebrae end plates. Dual-coned, precision sharpened rings facilitate rapid, efficient bone sculpting and removal. Each instrument engraved with depth indicator to minimize potential for deep penetration.

Total length 12.6" (32cm)

Handle length 7.8" (20cm)

Handle diameter 1.12" (3cm)

Working distance 4.7" (12cm)

Set of 6 Ring Curettes with Case, includes:

**46-3401** Ring Curette, Str. 6mm

**46-3402** Ring Curette, Str. 8mm

**46-3403** Ring Curette, Str. 10mm

**46-3404** Ring Curette, Ang. 6mm

**46-3405** Ring Curette, Ang. 8mm

**46-3406** Ring Curette, Ang. 10mm

**46-3407** PG MAGNUM Sterilizing Case

---

# CURETTES

- 47-5010 MICROSECT™ Curette Kit  
(Includes 12 Curettes & Tray)
- 47-5011 #1 Forward Angle Curette, 10"
- 47-5012 #1 Backward Angle Curette, 10"
- 47-5013 #2 Forward Angle Curette, 10"
- 47-5014 #2 Backward Angle Curette, 10"
- 47-5015 #3 Forward Angle Curette, 10"
- 47-5016 #3 Backward Angle Curette, 10"
- 47-5017 #4 Forward Angle Curette, 10"
- 47-5018 #4 Backward Angle Curette, 10"
- 47-5019 #5 Forward Angle Curette, 10"
- 47-5020 #5 Backward Angle Curette, 10"
- 47-5021 3mm Straight Dissector, 10"
- 47-5022 5mm Straight Dissector, 10"
- 47-5023 MICROSECT Curette Tray



# CURETTES



KARLIN™ XL MAGNUM Ring Curettes  
Extra Long (XL) curettes, black handles,  
lightweight

Length 13¼" (33.7cm)

Handle length 8½" (21cm)

Handle diameter 1¼" (32cm)

**46-3215** Set of six with case

Includes:

**46-3216** 6mm Ring, Straight

**46-3217** 8mm Ring, Straight

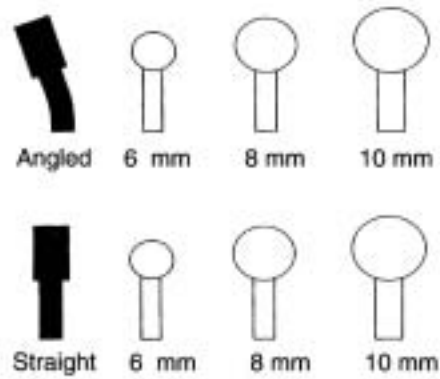
**46-3218** 10mm Ring, Straight

**46-3219** 6mm Ring, Angled

**46-3220** 8mm Ring, Angled

**46-3221** 10mm Ring, Angled

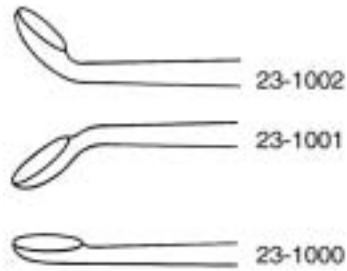
**46-3222** Storage/Sterilizing Case for 12  
XL MAGNUM Instruments



# CURETTES

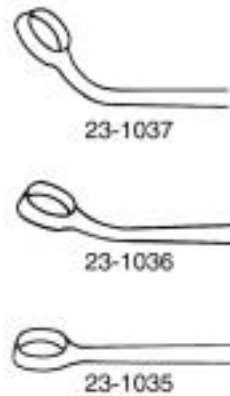
SCOVILLE Ruptured Disc Curettes  
 Length 10" (254mm)  
 Cup Size 4x10mm

- 23-1000** Straight Cup
- 23-1001** Flared laterally Cup
- 23-1002** Angular Cup



SEMMES Spinal Fusion Curettes  
 Length 9" (229mm)  
 Ring Size 4x7mm

- 23-1035** Straight
- 23-1036** Slightly curved
- 23-1037** Full curved



SPINE

# CURETTES

---



	SPINAL Fusion Curettes, straight.
	Length 8" (203mm)
<b>23-1041</b>	No. 000
<b>23-1042</b>	No. 00
<b>23-1043</b>	No. 0
<b>23-1044</b>	No. 1
<b>23-1045</b>	No. 2
<b>23-1046</b>	No. 3
<b>23-1047</b>	No. 4
<b>23-1048</b>	No. 5
<b>23-1049</b>	No. 6
	SPINAL Fusion Curettes, angular.
	Length 8" (203mm)
<b>23-1051</b>	No. 000
<b>23-1052</b>	No. 00
<b>23-1053</b>	No. 0
<b>23-1054</b>	No. 1
<b>23-1055</b>	No. 2
<b>23-1056</b>	No. 3
<b>23-1057</b>	No. 4
<b>23-1058</b>	No. 5
<b>23-1059</b>	No. 6
	SPINAL Fusion Curettes, straight
	Length 9" (229mm)
<b>23-1061</b>	No. 000
<b>23-1062</b>	No. 00
<b>23-1063</b>	No. 0
<b>23-1064</b>	No. 1
<b>23-1065</b>	No. 2
<b>23-1066</b>	No. 3
<b>23-1067</b>	No. 4
<b>23-1068</b>	No. 5
<b>23-1069</b>	No. 6
	SPINAL Fusion Curettes, straight
	Length 11" (279mm)
<b>23-1081</b>	No. 000
<b>23-1082</b>	No. 00
<b>23-1083</b>	No. 0
<b>23-1084</b>	No. 1
<b>23-1085</b>	No. 2
<b>23-1086</b>	No. 3
<b>23-1087</b>	No. 4
<b>23-1088</b>	No. 5
<b>23-1089</b>	No. 6

---



# CURETTES

<b>21-1003</b>	SPINAL FUSION CURETTE Storage and Sterilizing Case, holds nine sizes of curettes 23-1061 through 23-1069. Width 7¼" (184mm) Length 11¾" (299mm)
<b>21-1022</b>	SPINAL FUSION CURETTE Storage and Sterilizing Case, holds nine sizes of curettes. Width 7¼" (184mm) Length 9¾" (248mm)



# DISCECTOMY, MICROLUMBAR

WILLIAMS Micro Discectomy Instruments are designed to be used in the microsurgical treatment of herniated disks.  
WILLIAMS Instruments include:  
WILLIAMS Microlumbar Discectomy Retractor, self-retaining wound retraction for deep exposure.

	Blade Width	Blade Length
<b>80-1650</b>	1cm	5cm
<b>80-1651</b>	2cm	5cm
<b>80-1652</b>	1cm	7cm
<b>80-1653</b>	2cm	7cm



SPINE

# DISCECTOMY, MICROLUMBAR

---



<b>80-1654</b>	WILLIAMS Dissectomy Forceps, single-toothed cup.		
	Bit size		2mm
	Length	5½"	(140mm)



<b>80-1655</b>	WILLIAMS Microlumbar Dissectomy Suction Retractor		
	Tube diameter	16 Fr.	
	Length	6"	(152mm)

# DISSECTORS/SEPARATORS

---



<b>46-3006</b>	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)	



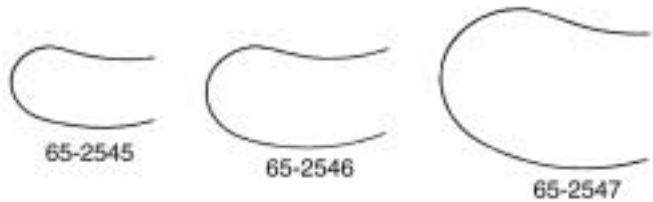
<b>50-1665</b>	CROCKARD Bayonet Micro-Dissector		
	10" (250mm) for transoral dissection, footplate designed to dissect tissue and reduce opportunity for dural penetration. Especially useful in definition of apical and alar ligaments and general dissection.		
	Length	10"	(250mm)

# ELEVATORS

ADSON Periosteal Elevators,		
	Length	6½" (165mm)
<b>65-1030</b>	No. 1 Chisel edge	
	Blade width	5/16" (8mm)
<b>65-1031</b>	No. 2 Curved, blunt edge	
	Blade width	¼" (6mm)
<b>65-1032</b>	No. 3 Curved, semi-sharp edge	
	Blade width	¼" (6mm)
<b>65-1033</b>	No. 4 Straight, semi-sharp edge	
	Blade width	5/16" (8mm)



COBB Spinal Elevators		
<b>65-2545</b>	Blade width	3/8" (10mm)
	Total Length	11" (279mm)
<b>65-2546</b>	Blade width	½" (13mm)
	Total Length	11" (279mm)
<b>65-2547</b>	Blade width	¾" (19mm)
	Total Length	11" (279mm)



CUSHING Staphylorrhaphy Elevators		
	Blade width	¼" (6mm)
<b>65-1045</b>	Round handle Length	8½" (216mm)

SPINE

# ELEVATORS

---



	CUSHING Little Joker Periosteal Elevators		
<b>65-1047</b>	Hollow handle		
	Blade width	¼"	(6mm)
	Length	6"	(152mm)
<b>65-1048</b>	Solid handle		
	Blade width	¼"	(6mm)
	Length	7½"	(191mm)

---



	CUSHING Periosteal Elevators, sharp.		
<b>65-1050</b>	Narrow		
	Blade width	¼"	(6mm)
	Length	8⅛"	(206mm)
<b>65-1051</b>	Extra narrow		
	Blade width	⅜"	(5mm)
	Length	8⅛"	(206mm)

---



	CUSHING Periosteal Elevators, sharp, wide.		
<b>65-1075</b>	Rounded edge		
	Blade width	⅝"	(16mm)
	Length	7¼"	(184mm)
<b>65-1076</b>	Square edge		
	Blade width	⅝"	(16mm)
	Length	7¼"	(184mm)

---

# ELEVATORS

**65-1092** CUSHING Periosteal Elevator, sharp, narrow, Gutsch handle.  
 Blade width  $\frac{3}{16}$ " (5mm)  
 Length  $7\frac{5}{8}$ " (194mm)



**65-1094** CUSHING-HOPKINS Periosteal Elevator, Gutsch handle.  
 Blade width  $\frac{7}{16}$ " (11mm)  
 Length  $7\frac{5}{8}$ " (194mm)



**HOEN Periosteal Elevators**

**65-1001** No. 1 Blade width  $\frac{5}{16}$ " (8mm)  
 Total length 7" (178mm)

**65-1002** No. 2 Blade width  $\frac{5}{8}$ " (15mm)  
 Total length  $7\frac{1}{4}$ " (184mm)

**65-1003** No. 3 Blade width  $\frac{3}{4}$ " (20mm)  
 Total length  $7\frac{1}{2}$ " (191mm)



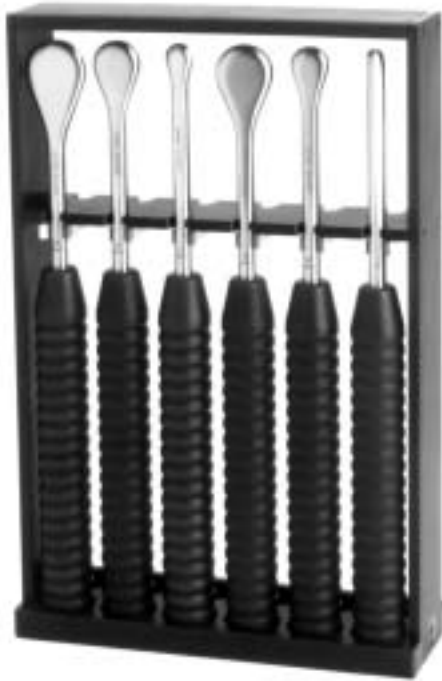
**65-1080** IOWA UNIVERSITY Periosteal Elevator  
 Blade width  $1\frac{1}{16}$ " (17mm)  
 Length  $7\frac{1}{4}$ " (184mm)



SPINE

# ELEVATORS

---



**46-3425** PG MAGNUM COBB Elevators  
Broad razor sharp blades accelerate periosteal stripping while reducing potential for spinal canal penetration.

Set of 6 COBB Elevators with Case includes:

**46-3426** COBB Elevator, Str. 10mm

**46-3427** COBB Elevator, Str. 15mm

**46-3428** COBB Elevator, Str. 20mm

**46-3429** COBB Elevator, Str. 25mm

**46-3430** COBB Elevator, Str. 30mm

**46-3431** COBB Elevator, Str. 35mm

**46-3407** Sterilizing Case for any 12 PG MAGNUM Instruments

Total length 12.6" (32cm)

Handle length 7.8" (20cm)

Handle diameter 1.12" (3cm)

Working distance 4.7" (12cm)

---

# ELEVATORS

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

Length 13.25" (337mm)

Handle diameter 1.25" (32mm)

**46-3240** Set of six in case for twelve instruments  
Includes:

**46-3241** 10mm

**46-3242** 15mm

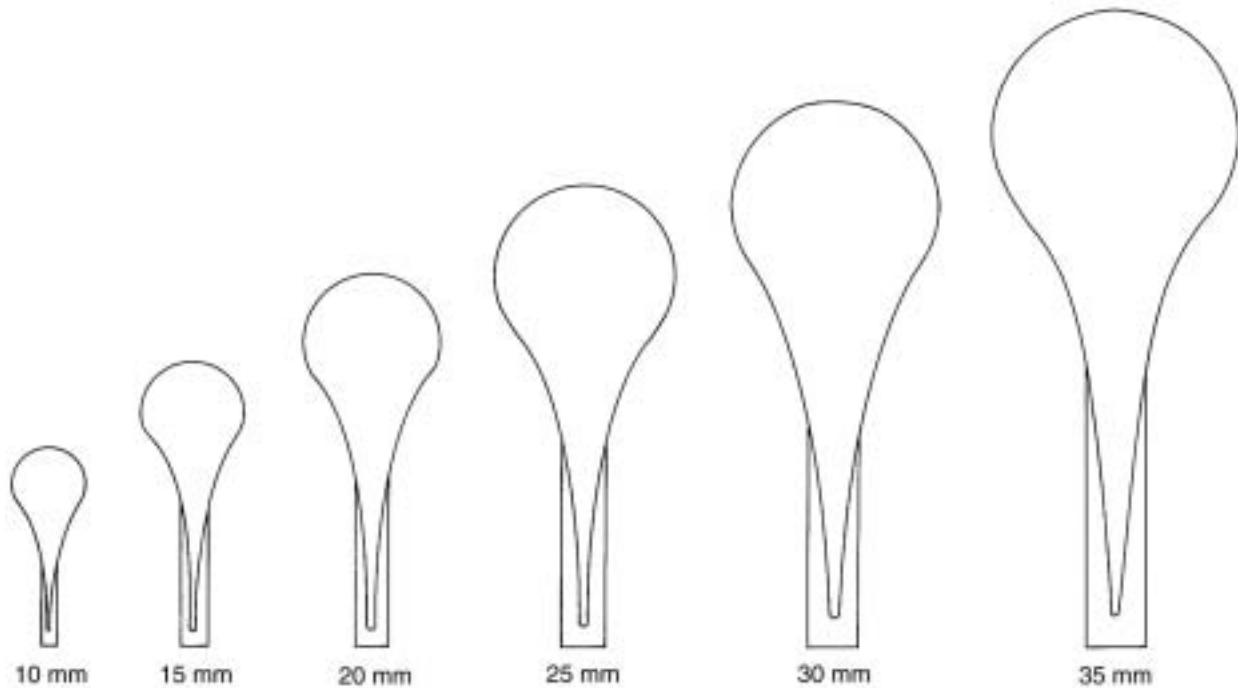
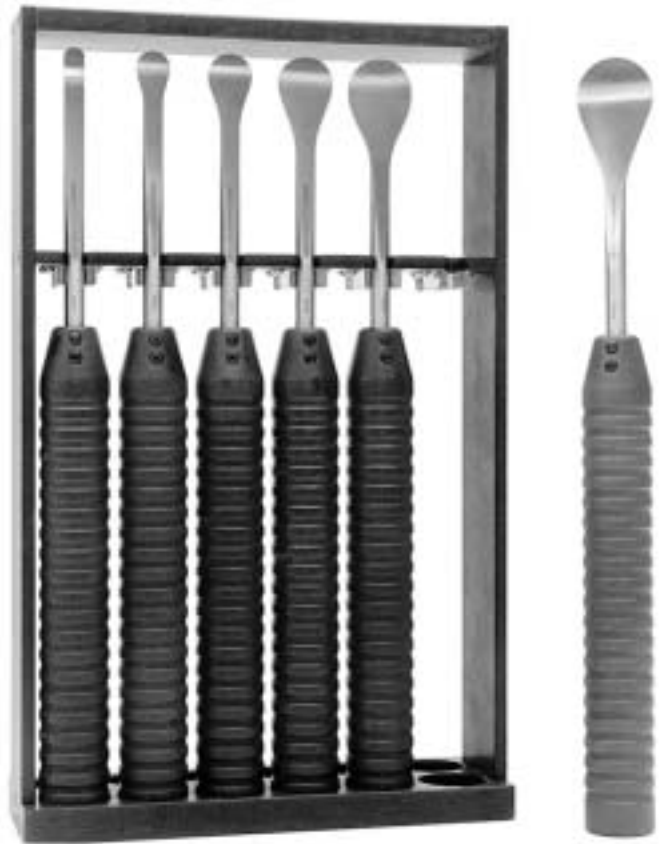
**46-3243** 20mm

**46-3244** 25mm

**46-3245** 30mm

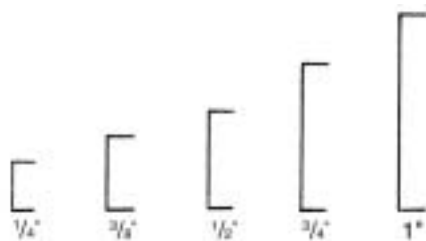
**46-3246** 35mm

**46-3222** XL MAGNUM instrument case for 12



SPINE

# ELEVATORS



KEY Periosteal Elevators		
	Total length	7 1/2" (191mm)
<b>65-2510</b>	Blade width	1/4" (6mm)
<b>65-2511</b>	Blade width	3/8" (10mm)
<b>65-2512</b>	Blade width	1/2" (13mm)
<b>65-2513</b>	Blade width	3/4" (19mm)
<b>65-2514</b>	Blade width	1" (25mm)



LANGENBECK Periosteal Elevators		
<b>65-1115</b>	Narrow	
	Blade width	1/4" (6mm)
	Length	8 1/4" (206mm)
<b>65-1116</b>	Wide	
	Blade width	1 1/16" (17mm)
	Length	7 1/2" (191mm)



<b>65-1110</b>	LOVE-ADSON Periosteal Elevator, semi-sharp.	
	Blade width	3/16" (5mm)
	Length	6 1/2" (165mm)



<b>65-1038</b>	MILLIGAN Dissector, double-ended.	
	Length	8 1/2" (216mm)
	Tip sizes	(14mm) (16mm)



# ELEVATORS



PENFIELD Dissectors	
<b>65-1015</b>	No. 1 Broad curved dissector, and sharp round spoon, double-ended. Length 7" (178mm)
<b>65-1016</b>	No. 2 Slightly curved dissector, and wax packer, double-ended. Length 7 <sup>3</sup> / <sub>4</sub> " (197mm)
<b>65-1017</b>	No. 3 Full curved dissector and wax packer, double-ended. Length 7 <sup>3</sup> / <sub>4</sub> " (197mm)
<b>65-1018</b>	No. 4 Slightly curved dissector, light. Length 8 <sup>1</sup> / <sub>4</sub> " (210mm)
<b>65-1019</b>	No. 5 Slightly curved blunt dissector, double-ended. Length 11 <sup>1</sup> / <sub>2</sub> " (272mm)

PRESBYTERIAN HOSPITAL Staphylorrhaphy Elevators, double-ended, semi-sharp and sharp blades.	
<b>65-1005</b>	Blade width (4mm) Length 7" (178mm) Straight
<b>65-1006</b>	Curved



<b>65-1008</b>	SUNDAY Staphylorrhaphy Elevator, blunt, slightly curved. Blade width (3mm) Length 9" (229mm)
----------------	--



# ELEVATORS



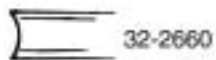
**65-1135** WOODSON Dural Separator and Packer, double-ended with groove in blade.  
 Blade width 1/8" (3mm)  
 Blade length 1/2" (13mm)  
 Total length 7" (178mm)

# FORCEPS



**30-1228** LIGAMENTA FLAVA Forceps, curved on side, 1x2 teeth.  
 Length 7 1/4" (184mm)

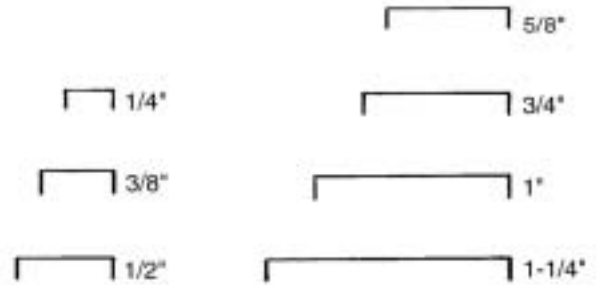
# GOUGES



COBB Spinal Gouges  
 Tip width 1/4" (6mm)  
 Length 11" (279mm)  
**32-2660** Straight  
**32-2661** Lesser curve  
**32-2662** Full curve  
**32-2663** Reverse curve

Fits in Codman sterilizing and carrying case 21-1020.

# GOUGES



## CODMAN Bone Gouges

	Length	Tip width	
<b>Straight</b>	11"		(279mm)
<b>32-2000</b>	32-2010	1/4"	(6mm)
<b>32-2001</b>	32-2011	3/8"	(10mm)
<b>32-2002</b>	32-2012	1/2"	(13mm)
<b>32-2003</b>	32-2013	5/8"	(16mm)
<b>32-2004</b>	32-2014	3/4"	(19mm)
<b>32-2005</b>	32-2015	1"	(25mm)
<b>32-2006</b>	32-2016	1 1/4"	(32mm)

Fits in Codman sterilizing and carrying case 21-1020.

# GOUGES



32-2541



32-2546

## SMITH-PETERSEN Bone Gouges

	Length	8"	(203mm)
<b>Straight</b>	Curved	Tip width	
<b>32-2540</b>	32-2550	1/4"	(6mm)
<b>32-2541</b>	32-2551	3/8"	(10mm)
<b>32-2542</b>	32-2552	1/2"	(13mm)
<b>32-2543</b>	32-2553	5/8"	(16mm)
<b>32-2544</b>	32-2554	3/4"	(19mm)
<b>32-2545</b>	32-2555	1"	(25mm)
<b>32-2546</b>	32-2556	1 1/4"	(32mm)

5/8"

1/4"

3/4"

3/8"

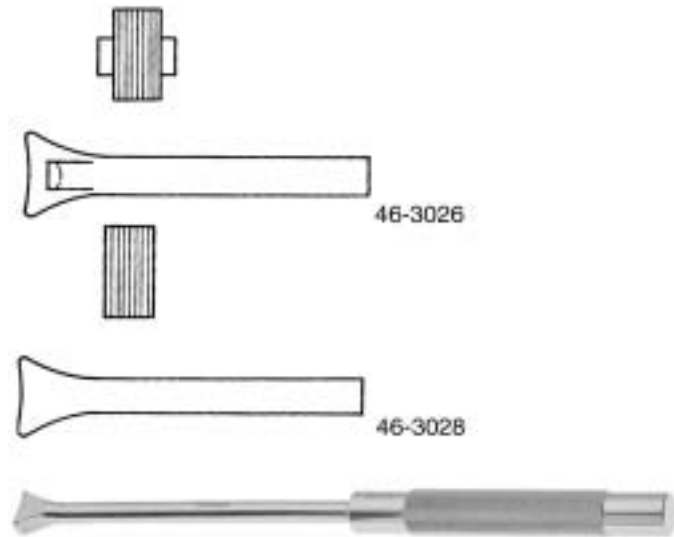
1"

1/2"

1-1/4"

# GRAFT DRIVERS

---



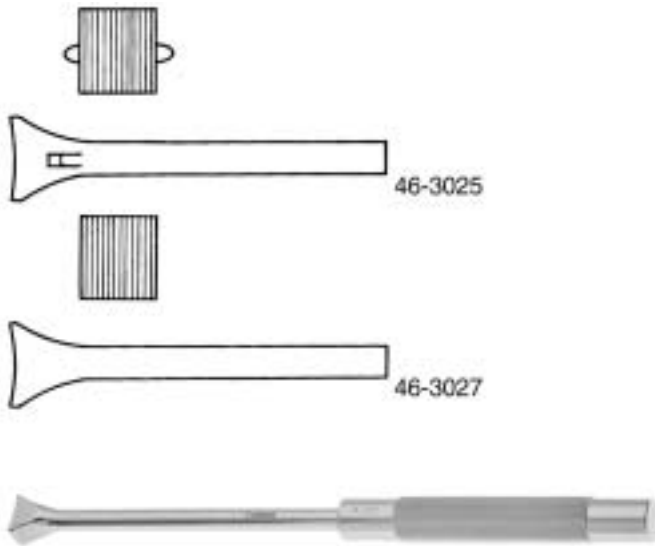
---

**CODMAN Anterior Cervical Graft Drivers**  
Designed to ease placement of tri-cortical grafts. Guarded design insets graft 2mm within the cervical lip. Unguarded version allows for deeper graft seating.

		Length	Tip Thickness
<b>46-3026</b>	Guarded	8 <sup>3</sup> / <sub>4</sub> " (22cm)	1/4" (6.5mm)
<b>46-3028</b>	Unguarded	8 <sup>3</sup> / <sub>4</sub> " (22cm)	5/16" (7.7mm)

---

# GRAFT DRIVERS



CODMAN Lumbar Graft Drivers  
 Designed to ease placement of tri-cortical grafts. Guarded version insets graft 3mm within the lumbar lip. Unguarded version allows for deeper graft seating.

		Length	Tip Thickness
<b>46-3025</b>	Guarded	8¾" (22cm)	⅜"(9.5mm)
<b>46-3027</b>	Unguarded	8¾" (22cm)	13/32"(10mm)

# GUIDES SUBLAMINAR WIRE



CODMAN SOF'WIRE Guides.

**46-4100** 20cm (8") instrument designed to assist the cervical spine surgeon in protective wire passage of C2–C7 vertebrae. Atraumatic end designed to dissect impeding ligamentous tissue. Suture hole for wire fixation.

**46-4101** 20cm (8") instrument designed to assist the cervical spine surgeon in protective wire passage of C1 vertebrae. Uniquely shaped for C1 wire passage. Atraumatic end designed to dissect impeding ligamentous tissue. Suture hole for wire fixation.

# HOOKS, IMPACTORS



**38-1030** CUSHING Gasserian Ganglion Hook, Blunt  
 Hook depth  $\frac{3}{16}$ " (5mm)  
 Total length 9" (229mm)

**38-1038** CODMAN Dural Hook, sharp.  
 Length  $6\frac{1}{2}$ " (165mm)  
 Tip Diameter (2mm)



**46-3006** ANNULAR Dissector Perforator  
 Used to reduce annular bulge following discectomy; depressing it into the interspace to enhance and assist in removal of recalcitrant nucleus. May serve to dissect scar tissue from dural sac. Atraumatic tip geometry.  
 Length:  $8\frac{3}{4}$ " (22cm)  
 Tip length:  $\frac{1}{2}$ " (13mm)  
 Tip tapers  $\frac{1}{4}$ " (6mm) to  $\frac{1}{8}$ " (3mm)



**46-3008** CENTRAL Canal Impactor 30°  
 Used to impact symptomatic spondylophytes, placed beneath and clear of neurostructures, slip resistant, textured impaction surface is held perpendicular to surrounding bone planes and impacted with a mallet. Tip oriented 30° from vertical.  
 Length  $8\frac{3}{4}$ " (22cm)  
 Tip length  $\frac{1}{2}$ " (13mm)  
 Tip width  $\frac{7}{32}$ " (7mm)



# HOOKS, IMPACTORS



- 
- 46-3020** CODMAN Micro Impactor Set  
The set includes:  
Length 7" (18cm)
- 46-3021** Micro Offset Central Canal Impactor  
Tip size .17" (4.3mm)
- 46-3022** Micro Lateral Gutter Impactor  
Tip size .37" (9.4mm)
- 



- 
- 46-3021** MICRO Offset Central Canal Impactor  
Designed for spondylophyte impaction within a limited exposure; and, within neuroforamina. Slip resistant textured impaction surface is held perpendicular to surrounding bone planes and impacted with mallet.
- Length 7" (178mm)  
Tip length 1/4" (6mm)  
Tip width 5/32" (4mm)
- 

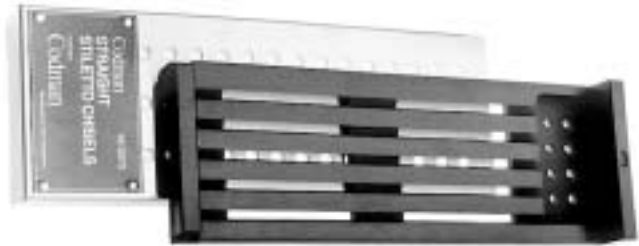


- 
- 46-3022** Micro Lateral Gutter Impactor  
Designed for Spondylophyte impaction within a limited exposure and within neuroforamina. Slip resistant textured impaction surface is held perpendicular to surrounding bone planes and impacted with mallet.
- Length 7" (178mm)  
Tip depth 5/16" (8mm)  
Tip width 5/32" (4mm)
-

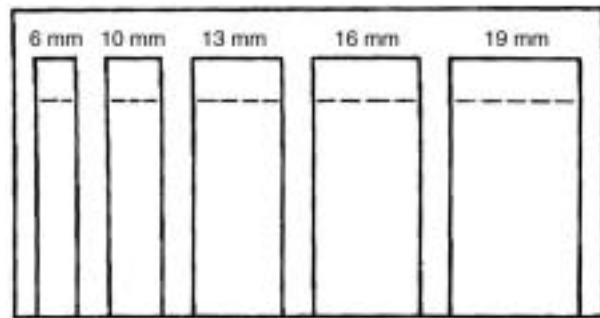


# KARLIN INSTRUMENTS CHISELS

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

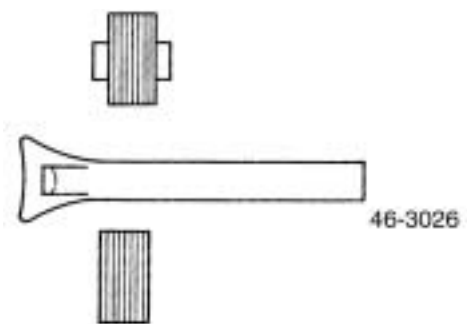


- 
- 46-3080** Curved Stiletto Chisel Set with Case  
 Length 8½" (216mm)  
 The Set Includes:
- |                | Tip Size                        |        |
|----------------|---------------------------------|--------|
| <b>46-3081</b> | Chisel Curved ¼"                | (6mm)  |
| <b>46-3082</b> | Chisel Curved ⅜"                | (10mm) |
| <b>46-3083</b> | Chisel Curved ½"                | (13mm) |
| <b>46-3084</b> | Chisel Curved ⅝"                | (16mm) |
| <b>46-3085</b> | Chisel Curved ¾"                | (19mm) |
| <b>46-3086</b> | Case for Curved Stiletto Chisel |        |
- 



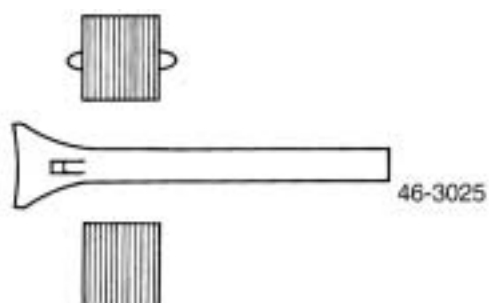
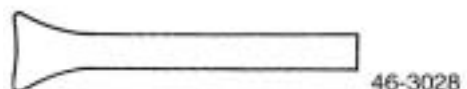
SPINE

# KARLIN INSTRUMENTS DRIVER, GRAFT



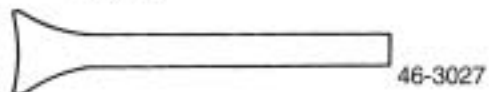
CODMAN Anterior Cervical Graft Drivers  
Designed to ease placement of tri-cortical grafts. Guarded design insets graft 2mm within the cervical lip. Unguarded version allows for deeper graft seating.

		Length	Tip Thickness
<b>46-3026</b>	Guarded	8 <sup>3</sup> / <sub>4</sub> " (22cm)	1/4" (6.5mm)
<b>46-3028</b>	Unguarded	8 <sup>3</sup> / <sub>4</sub> " (22cm)	5/16" (7.7mm)



CODMAN Lumbar Graft Drivers  
Designed to ease placement of tri-cortical grafts. Guarded version insets graft 3mm within the lumbar lip. Unguarded version allows for deeper graft seating.

		Length	Tip Thickness
<b>46-3025</b>	Guarded	8 <sup>3</sup> / <sub>4</sub> " (22cm)	3/8" (9.5mm)
<b>46-3027</b>	Unguarded	8 <sup>3</sup> / <sub>4</sub> " (22cm)	13/32" (10mm)



# KARLIN INSTRUMENTS

## IMPACTORS, SPONDYLOPHYTE

- 46-3002** LUMBAR SPONDYLOPHYTE IMPACTION SET  
 SET  
 The impaction set is surgeon designed to correct symptomatic spondylophytes. Complementary instruments have been assembled in a set to meet expected indications. Additional (optional) support instruments are available for broader indications. The set includes one (each) of the following:
- 46-3003** Sterilizing O.R. Display Case  
**46-3005** Silver Bayonet Dural Suction Retractor  
 Macro tip  $\frac{7}{16}$ " (10mm)  
**46-3006** Annular Dissector Perforator  
**46-3007** Offset Central Canal Impactor  
**46-3009** Lateral Gutter Impactor  
**46-3012** Black 90° Dural Suction Retractor  
 Micro tip  $\frac{5}{16}$ " (8mm)
- 46-3003** STERILIZING O. R. DISPLAY CASE  
 Spondylophyte Impaction Set.  
 Designed to house impaction set and/or ancillary instruments: three straight handled instruments and a bayonet (black or silver) Dural Suction Retractor;  
 or:  
 four straight handled instruments and a black 90° Dural Suction Retractor. Keeper Blade holds instruments in place  
 Length: 10" (25cm)  
 Width:  $4\frac{1}{2}$ " (11cm)  
 Thickness:  $\frac{5}{8}$ " (16mm)



- 46-3005** SILVER Bayonet Dural Suction Retractor (Macro Tip)  
 Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Reflective finish to benefit small wound (microdiscectomy) surgery.
- |           |                 |          |
|-----------|-----------------|----------|
| Length    | 9"              | (22.5cm) |
| Tip width | $\frac{3}{8}$ " | (9.5mm)  |
| Tip depth | $\frac{1}{4}$ " | (6mm)    |



SPINE

# KARLIN INSTRUMENTS

## IMPACTORS, SPONDYLOPHYTE

---



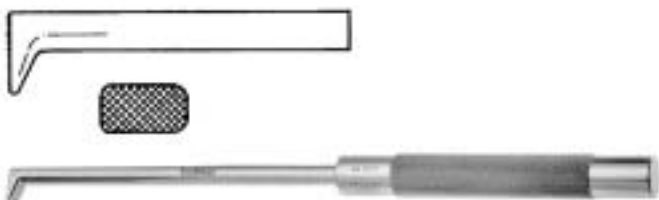
**46-3006** ANNULAR Dissector Perforator  
Used to reduce annular bulge following discectomy; depressing it into the interspace to enhance and assist in removal of recalcitrant nucleus. May serve to dissect scar tissue from dural sac. Atraumatic tip geometry.

Length: 8 $\frac{3}{4}$ " (22cm)

Tip length:  $\frac{1}{2}$ " (13mm)

Tip tapers  $\frac{1}{4}$ " (6mm) to  $\frac{1}{8}$ " (3mm)

---



**46-3007** OFFSET Central Canal Impactor (Standard)  
Used to impact symptomatic spondylophytes. Placed beneath and clear of neurostructures. Slip resistant, textured impaction surface is held perpendicular to surrounding bone planes and impacted with a mallet. Used to impact symptomatic spondylophytes. Placed beneath and clear of neurostructures. Slip resistant, textured impaction surface is held perpendicular to surrounding bone planes and impacted with a mallet.

Length 8 $\frac{3}{4}$ " (22cm)

Tip length  $\frac{7}{16}$ " (10mm)

Tip width  $\frac{7}{32}$ " (5mm)

---



**46-3009** LATERAL Gutter Impactor  
Used to impact symptomatic spondylophytes. Placed beneath and clear of neurostructures. Slip resistant, textured impaction surface is held perpendicular to surrounding bone planes and impacted with a mallet.

Length 8 $\frac{3}{4}$ " (220mm)

Tip depth  $\frac{1}{2}$ " (5mm)

Tip width  $\frac{7}{32}$ " (13mm)

---

# KARLIN INSTRUMENTS IMPACTORS, SPONDYLOPHYTE

**46-3012** 90° DURAL Suction Retractor, Black (Micro)  
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Blackened to reduce glare.  
Working distance 4<sup>3</sup>/<sub>4</sub>" (120mm)  
Handle length 4<sup>5</sup>/<sub>8</sub>" (117mm)  
Tip width 9<sup>3</sup>/<sub>32</sub>" (8mm)  
Tip depth 1<sup>1</sup>/<sub>4</sub>" (6mm)



**46-3008** CENTRAL Canal Impactor 30°  
Used to impact symptomatic spondylophytes, placed beneath and clear of neurostructures, slip resistant, textured impaction surface is held perpendicular to surrounding bone planes and impacted with a mallet. Tip oriented 30° from vertical.  
Length 8<sup>3</sup>/<sub>4</sub>" (22cm)  
Tip length 1<sup>1</sup>/<sub>2</sub>" (13mm)  
Tip width 7<sup>1</sup>/<sub>32</sub>" (7mm)



**46-3020** CODMAN Micro Impactor Set  
The set includes:  
Length 7" (18cm)  
**46-3021** Micro Offset Central Canal Impactor  
Tip size .17" (4.3mm)  
**46-3022** Micro Lateral Gutter Impactor  
Tip size .37" (9.4mm)



SPINE

# KARLIN INSTRUMENTS

## IMPACTORS, SPONDYLOPHYTE

---



**46-3021** MICRO Offset Central Canal Impactor  
 Designed for spondylophyte impaction within a limited exposure; and, within neuroforamina. Slip resistant textured impaction surface is held perpendicular to surrounding bone planes and impacted with mallet.

Length	7"	(178mm)
Tip length	1/4"	(6mm)
Tip width	5/32"	(4mm)



**46-3022** Micro Lateral Gutter Impactor  
 Designed for Spondylophyte impaction within a limited exposure and within neuroforamina. Slip resistant textured impaction surface is held perpendicular to surrounding bone planes and impacted with mallet.

Length	7"	(178mm)
Tip depth	5/16"	(8mm)
Tip width	5/32"	(4mm)

# KARLIN INSTRUMENTS

## KNIFE, MICRO

---



**46-3174** KARLIN™ Micro-Knife Handle combines patented\* back bayonet design, with a simple blade locking feature. Order blades separately.

**46-3177** Micro Tip Blade, 2mm

**46-3178** Ultra Micro Tip Blade, 1.5mm  
 Blades packaged sterile, 10 per package.

\*Patent No. D312,310

# KARLIN INSTRUMENTS MAGNUM

KARLIN™ MAGNUM Chisels,  
Black-handles, designed for use with a surgical  
mallet.

Length 10.75" (273mm)

Handle diameter 1.25" (32mm)

### Straight

**46-3100** Set of six with case

Includes:

**46-3101** 6mm

**46-3102** 10mm

**46-3103** 15mm

**46-3104** 20mm

**46-3105** 25mm

**46-3106** 30mm

**46-3107** Magnum instrument case for 6

### Curved

**46-3110** Set of six with case

Includes:

**46-3111** 6mm

**46-3112** 10mm

**46-3113** 15mm

**46-3114** 20mm

**46-3115** 25mm

**46-3116** 30mm

**46-3107** Magnum instrument case for 6



SPINE

# KARLIN INSTRUMENTS MAGNUM

---



**46-3410** PG MAGNUM Cup Curettes  
Large capacity cup sizes permit rapid tissue removal:

Set of 12 Cup Curettes with Case includes:

- 46-3411** Cup Curette, Forward, Str. 7mm
- 46-3412** Cup Curette, Forward, Str. 9mm
- 46-3413** Cup Curette, Forward, Str. 11mm
- 46-3414** Cup Curette, Forward, Str. 13mm
- 46-3415** Cup Curette, Forward, Str. 15mm
- 46-3416** Cup Curette, Forward, Str. 17mm
- 46-3417** Cup Curette, Forward, Str. 19mm
- 46-3418** Cup Curette, Forward, Ang. 7mm
- 46-3419** Cup Curette, Forward, Ang. 9mm
- 46-3420** Cup Curette, Forward, Ang. 11mm
- 46-3421** Cup Curette, Forward, Down Pushing 7mm
- 46-3422** Cup Curette, Forward, Down Pushing 9mm

Total length 12.6" (32cm)

Handle length 7.8" (20cm)

Handle diameter 1.12" (3cm)

Working distance 4.7" (12cm)

---

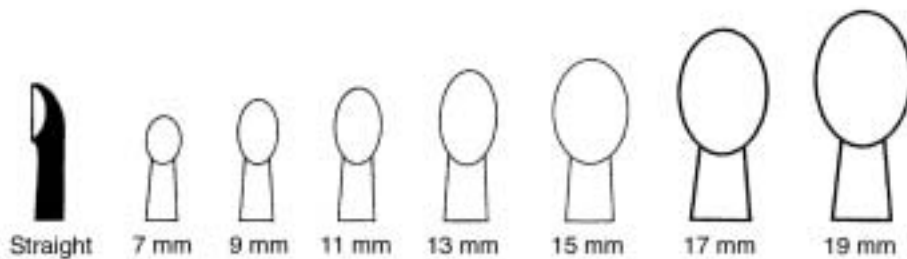
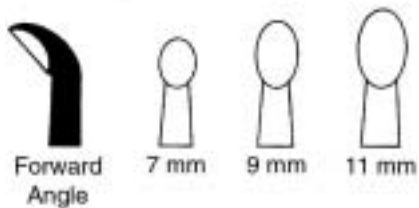


# KARLIN INSTRUMENTS MAGNUM

KARLIN XL MAGNUM Cup Curettes  
Extra Long (XL) curettes, black handles,  
lightweight

Length 13¼" (33.7cm)  
Handle length 8½" (21cm)  
Handle diameter 1¼" (32cm)

- 46-3225** XL MAGNUM Cup curettes with case  
Includes:
- 46-3226** Curette forward straight (7mm)
  - 46-3227** Curette forward straight (9mm)
  - 46-3228** Curette forward straight (11mm)
  - 46-3229** Curette forward straight (13mm)
  - 46-3230** Curette forward straight (15mm)
  - 46-3236** Curette forward, straight (17mm)
  - 46-3237** Curette forward, straight (19mm)
  - 46-3231** Curette forward angle (7mm)
  - 46-3232** Curette forward angle (9mm)
  - 46-3233** Curette forward angle (11mm)
  - 46-3234** Curette down pushing (7mm)
  - 46-3235** Curette down pushing (9mm)
  - 46-3222** Storage/sterilizing case for 12 XL MAGNUM instruments



SPINE

# KARLIN INSTRUMENTS MAGNUM

---



**46-3400** PG MAGNUM Ring Curettes  
Unique, broad-neck fulcrum provides atraumatic leverage on opposing vertebrae end plates. Dual-coned, precision sharpened rings facilitate rapid, efficient bone sculpting and removal. Each instrument engraved with depth indicator to minimize potential for deep penetration.

Total length 12.6" (32cm)

Handle length 7.8" (20cm)

Handle diameter 1.12" (3cm)

Working distance 4.7" (12cm)

Set of 6 Ring Curettes with Case, includes:

**46-3401** Ring Curette, Str. 6mm

**46-3402** Ring Curette, Str. 8mm

**46-3403** Ring Curette, Str. 10mm

**46-3404** Ring Curette, Ang. 6mm

**46-3405** Ring Curette, Ang. 8mm

**46-3406** Ring Curette, Ang. 10mm

**46-3407** PG MAGNUM Sterilizing Case

---

# KARLIN INSTRUMENTS MAGNUM

KARLIN™ XL MAGNUM Ring Curettes  
Extra Long (XL) curettes, black handles,  
lightweight

Length 13¼" (33.7cm)

Handle length 8½" (21cm)

Handle diameter 1¼" (32cm)

**46-3215** Set of six with case

Includes:

**46-3216** 6mm Ring, Straight

**46-3217** 8mm Ring, Straight

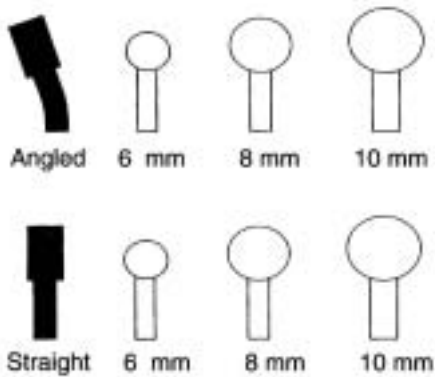
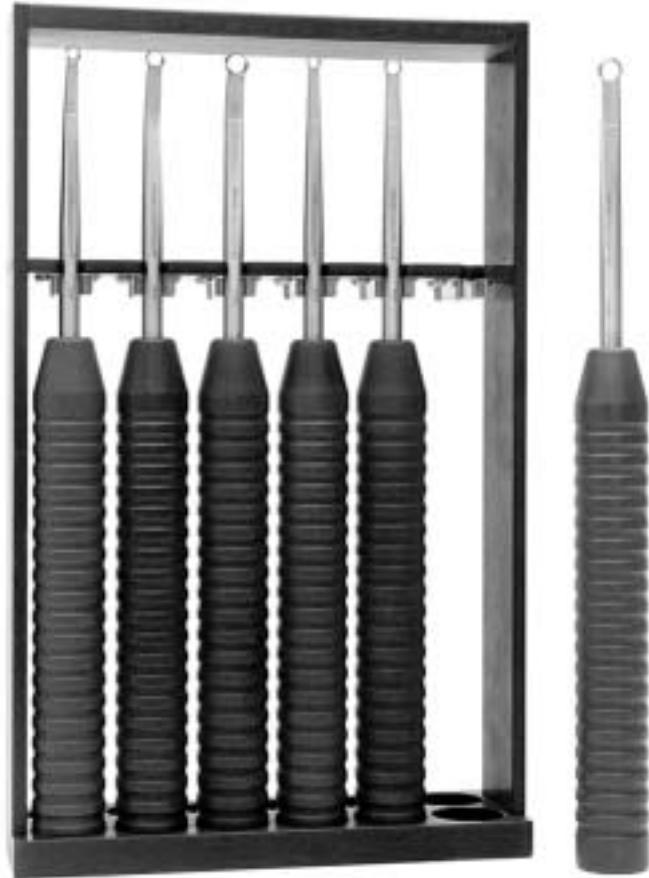
**46-3218** 10mm Ring, Straight

**46-3219** 6mm Ring, Angled

**46-3220** 8mm Ring, Angled

**46-3221** 10mm Ring, Angled

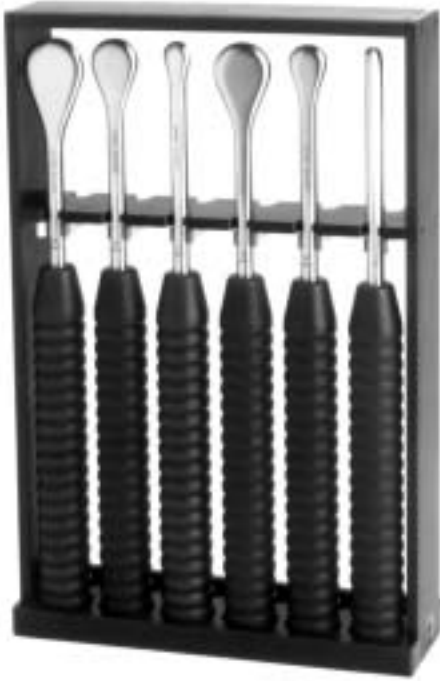
**46-3222** Storage/Sterilizing Case for 12  
XL MAGNUM Instruments



SPINE

# KARLIN INSTRUMENTS MAGNUM

---



**46-3425** PG MAGNUM COBB Elevators  
Broad razor sharp blades accelerate periosteal stripping while reducing potential for spinal canal penetration.

Set of 6 COBB Elevators with Case includes:

**46-3426** COBB Elevator, Str. 10mm

**46-3427** COBB Elevator, Str. 15mm

**46-3428** COBB Elevator, Str. 20mm

**46-3429** COBB Elevator, Str. 25mm

**46-3430** COBB Elevator, Str. 30mm

**46-3431** COBB Elevator, Str. 35mm

**46-3407** Sterilizing Case for any 12 PG MAGNUM Instruments

Total length 12.6" (32cm)

Handle length 7.8" (20cm)

Handle diameter 1.12" (3cm)

Working distance 4.7" (12cm)

---

# KARLIN INSTRUMENTS MAGNUM

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

Length 13.25" (337mm)

Handle diameter 1.25" (32mm)

**46-3240** Set of six in case for twelve instruments  
Includes:

**46-3241** 10mm

**46-3242** 15mm

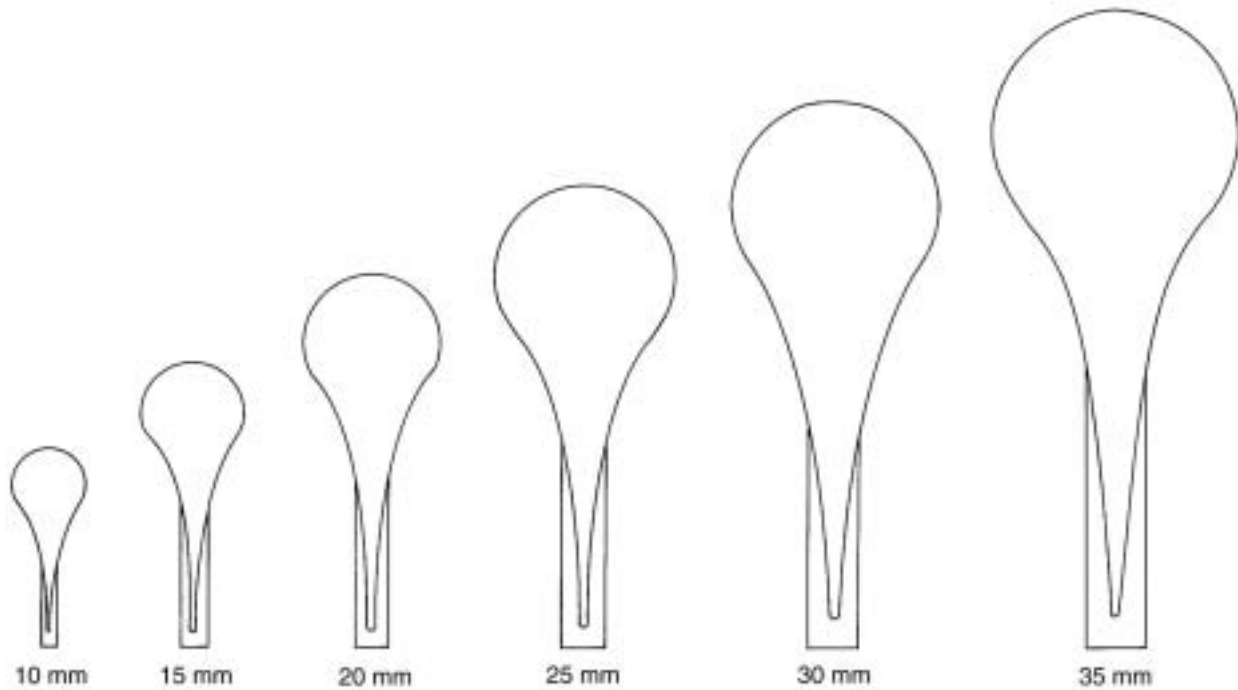
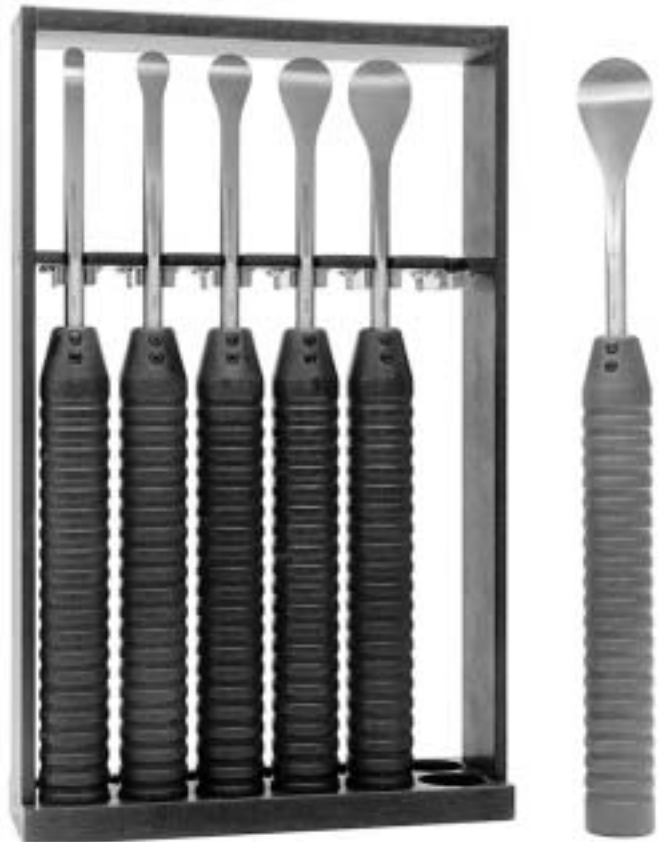
**46-3243** 20mm

**46-3244** 25mm

**46-3245** 30mm

**46-3246** 35mm

**46-3222** XL MAGNUM instrument case for 12



SPINE

# KARLIN INSTRUMENTS MAGNUM

---



---

The KARLIN MAGNUM Mallets are designed to provide optimal forward weight distribution offering precision impact with minimum effort.

<b>46-3179</b>	KARLIN MAGNUM Mallet, Small
Weight:	7.1 oz. (200 grms.)
Length:	9.5 in. (24.1 cm)
Diameter:	1.0 in. (2.5 cm)
<b>46-3146</b>	KARLIN MAGNUM Mallet, Large
Weight:	12 oz. (340 grms.)
Length:	9.72 in. (24.7 cm)
Diameter:	1.24 in. (2.5 cm)

---

# KARLIN INSTRUMENTS MICRODISCECTOMY

KARLIN Cervical Microdiscectomy Instruments  
Offset, blade handles, tip configuration marked  
on handle

Length 8½" (21cm)

**46-3150** Set of 24 instruments with 2 cases.

Includes:

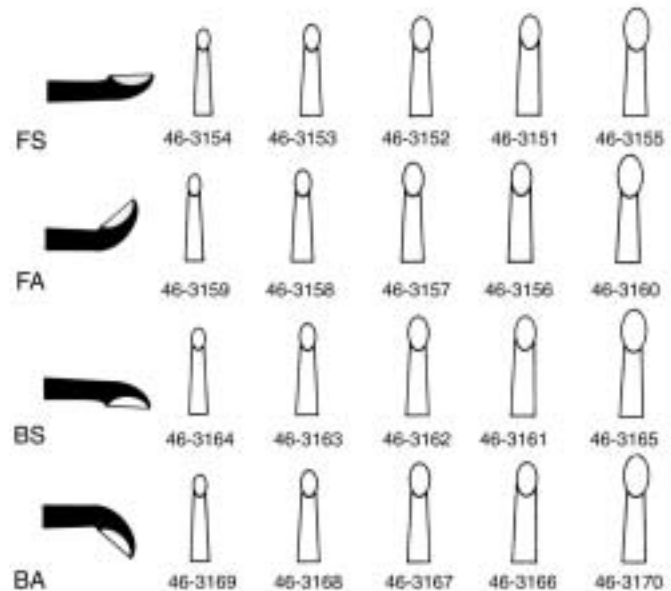
- 46-3151** Curette, Forward Straight, 0
- 46-3152** Curette, Forward Straight, 00
- 46-3153** Curette, Forward Straight, 000
- 46-3154** Curette, Forward Straight, 0000
- 46-3155** Curette, Forward Straight, Cortical Bone Cutter
- 46-3156** Curette, Forward Angle, 0
- 46-3157** Curette, Forward Angle, 00
- 46-3158** Curette, Forward Angle, 000
- 46-3159** Curette, Forward Angle, 0000
- 46-3160** Curette, Forward Angle, Cortical Bone Cutter
- 46-3161** Curette, Backward Straight, 0
- 46-3162** Curette, Backward Straight, 00
- 46-3163** Curette, Backward Straight, 000
- 46-3164** Curette, Backward Straight, 0000
- 46-3165** Curette, Backward Straight, Cortical Bone Cutter
- 46-3166** Curette, Backward Angle, 0
- 46-3167** Curette, Backward Angle, 00
- 46-3168** Curette, Backward Angle, 000
- 46-3169** Curette, Backward Angle, 0000
- 46-3170** Curette, Backward Angle, Cortical Bone Cutter
- 46-3171** Micro Nerve Hook
- 46-3172** Ultra Micro Nerve Hook
- 46-3174** Knife Handle
- 46-3173** Cervical Bone Waxer
- 46-3175** Storage/Sterilization Case for 12 instruments
- 46-3177** KARLIN Micro Knife Blade, 2.0mm
- 46-3178** KARLIN Ultra Knife Blade, 1.5mm

KARLIN Ultra Cervical Microdiscectomy  
Instruments

Length 8½" (21cm)

**46-3180** Set of 4 curettes with case for 4 instruments

**46-3181** Storage/Sterilizing Case for 4 instruments



SPINE



# KARLIN INSTRUMENTS MICRODISCECTOMY



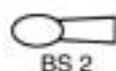
KARLIN Lumbar Microdiscectomy Instruments  
offset, black handles, tip configuration marked  
on handle.

Length 9½" (24.13cm)

**46-3120** Set of 24 instruments with 2 cases

Includes:

- 46-3121** Curette, forward straight, 0
- 46-3122** Curette, forward straight, 1
- 46-3123** Curette, forward straight, 2
- 46-3124** Curette, forward angle, 0
- 46-3125** Curette, forward angle, 1
- 46-3126** Curette, forward angle, 2
- 46-3127** Curette, forward down, 0
- 46-3128** Curette, forward down, 1
- 46-3129** Curette, forward down, 2
- 46-3130** Curette, backward straight, 0
- 46-3131** Curette, backward straight, 1
- 46-3132** Curette, backward straight, 2
- 46-3133** Curette, backward angle, 0
- 46-3134** Curette, backward angle, 1
- 46-3135** Curette, backward angle, 2
- 46-3136** Curette, backward down, 0
- 46-3137** Curette, backward down, 1
- 46-3138** Curette, backward down, 2
- 46-3139** Penfield Dissector #1
- 46-3140** Penfield Dissector #2
- 46-3141** Nerve Hook
- 46-3142** Penfield Dissector #4
- 46-3143** Bone Waxer
- 46-3144** Spine Probe
- 46-3145** Storage/Sterilizing Case for 12 instruments



BS 2



BA 2



BD 2



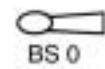
BS 1



BA 1



BD 1



BS 0



BA 0



BD 0

Backward  
Straight (BS)

Backward  
Angle (BA)

Backward  
Down (BD)



FS 2



FA 2



FD 2



FS 1



FA 1



FD 1



FS 0



FA 0



FD 0

Forward  
Straight (FS)

Forward  
Angle (FA)

Forward  
Down (FD)



# KARLIN INSTRUMENTS MICRODISCECTOMY

**46-2625** KARLIN XL Cervical Microdiscectomy Kit  
(Set of 24 Instruments with 2 Cases)  
The KARLIN Extra Long Cervical Microdiscectomy Instruments were developed to support the extra length required when working under a microscope. They optimize visualization through their bayonet design and satin black handles  
46-3150)

Instrument length 9.5" (24cm)  
Working distance 4.1" (10.4cm)  
Handle width 0.6" (1.5cm)

Includes the following:

- 46-2626** XL Cervical Curette, Forward Straight, 0
- 46-2627** XL Cervical Curette, Forward Straight, 00
- 46-2628** XL Cervical Curette, Forward Straight, 000
- 46-2629** XL Cervical Curette, Forward Straight, 0000
- 46-2630** XL Cervical Curette, Forward Straight, Cortical Bone Cutter
- 46-2631** XL Cervical Curette, Forward Angle, 0
- 46-2632** XL Cervical Curette, Forward Angle, 00
- 46-2633** XL Cervical Curette, Forward Angle, 000
- 46-2634** XL Cervical Curette, Forward Angle, 0000
- 46-2635** XL Cervical Curette, Forward Angle, Cortical Bone Cutter
- 46-2636** XL Cervical Curette, Backward Straight, 0
- 46-2637** XL Cervical Curette, Backward Straight, 00
- 46-2638** XL Cervical Curette, Backward Straight, 000
- 46-2639** XL Cervical Curette, Backward Straight, 0000
- 46-2640** XL Cervical Curette, Backward Straight, Cortical Bone Cutter
- 46-2641** XL Cervical Curette, Backward Angle, 0
- 46-2642** XL Cervical Curette, Backward Angle, 00
- 46-2643** XL Cervical Curette, Backward Angle, 000
- 46-2644** XL Cervical Curette, Backward Angle, 0000
- 46-2645** XL Cervical Curette, Backward Angle, Cortical Bone Cutter
- 46-2646** XL Cervical Micro Nerve Hook
- 46-2647** XL Cervical Ultra Micro Nerve Hook
- 46-2648** XL Cervical Bone Waxer
- 46-3174** KARLIN Micro-Knife Handle
- 46-3145** Storage/Sterilizing Case for 12 Instruments  
(2 provided with Kit)



SPINE

# KARLIN INSTRUMENTS

## RETRACTORS, CRANK FRAME

---



### 46-3190 KARLIN CRANK FRAME SPINAL RETRACTOR SET

Designed for posterior lumbar and Thoracic spine surgery. Arm design allows the blades to be pre-positioned in the wound prior to attachment. Blades are interchangeable. Multiple blades may be used on each retractor arm.

Maximum width opening 5½" (140mm)

Crank Frame Spinal Retractor Set Includes:

- 46-3191 Crank Frame Retractor Body
  - 46-3192 Crank Frame Retractor Ratchet
  - 46-3193 Blade with Sacral cutout, Left  
1¼" x 1½" (31mm x 38mm)
  - 46-3194 Blade with Sacral cutout, Right  
1¼" x 1½" (31mm x 38mm)
  - 46-3195 Blade with Sacral cutout, Left  
2¼" x 1¾" (57mm x 44mm)
  - 46-3196 Blade with Sacral cutout, Right  
2¼" x 1¾" (57mm x 44mm)
  - 46-3197 Blade, Left/Right (2 in Set, 1 with re-order)  
3" x 2½" (76mm x 64mm)
- 



### CRANK FRAME RETRACTOR Blades.

Additional Blades for use with Crank Frame Retractor Body 46-3191.

- 46-3199 Blades, Left and Right pair, offset  
¾" x 1¼" (19mm x 31mm)
  - 46-3200 Blades, Left and Right pair, offset  
¾" x 1¾" (19mm x 44mm)
  - 46-3201 Blades, Left and Right pair, offset  
¾" x 2¼" (19mm x 57mm)
  - 46-3202 Blades, Left and Right pair, offset  
¾" x 3" (19mm x 76mm)
  - 46-3203 Blades, Left and Right pair, offset  
¾" x 3¼" (19mm x 83mm)
  - 46-3204 Blades, Left and Right pair, offset  
¾" x 4" (19mm x 102mm)
  - 46-3205 Blades, Left and Right pair  
2" x 4" (51mm x 102mm)
-

# KARLIN INSTRUMENTS RETRACTORS, CRANK FRAME

---

## KARLIN Pronged Retractor Blades

The KARLIN pronged blades are used in conjunction with any of the standard offset blades offered with the Crank Frame Retractor System. These blades expand the capability of the retractor to include unilateral minimal incision surgery.



		Depth
<b>46-3208</b>	Crank Frame Retractor Blade, Single Prong	1.5" (38mm)
<b>46-3209</b>	Crank Frame Retractor Blade, Single Prong	2.0" (51mm)
<b>46-3210</b>	Crank Frame Retractor Blade, Single Prong	2.5" (64mm)
<b>46-3211</b>	Crank Frame Retractor Blade, Double Prong	1.5" (38mm)
<b>46-3212</b>	Crank Frame Retractor Blade, Double Prong	2.0" (51mm)
<b>46-3213</b>	Crank Frame Retractor Blade, Double Prong	2.5" (64mm)

---

# KARLIN INSTRUMENTS RETRACTORS, CRANK FRAME

---



46-3206



46-3207

---

	Crank Frame Retractor Blade, Semi Hemi
<b>46-3206</b>	Size 1 1/4" x 1 1/4" (31mm x 31mm)
<b>46-3207</b>	Size 2" x 1 1/4" (51mm x 31mm)

---

# KARLIN INSTRUMENTS RETRACTORS, NERVE ROOT

- 46-3004** SILVER Bayonet Dural Suction Retractor (Micro Tip)  
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Reflective finish to benefit small wound (microdiscectomy) surgery.
- |           |       |         |
|-----------|-------|---------|
| Length    | 8½"   | (220mm) |
| Tip width | 5/16" | (8mm)   |
| Tip depth | ¼"    | (6mm)   |



- 46-3005** SILVER Bayonet Dural Suction Retractor (Macro Tip)  
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Reflective finish to benefit small wound (microdiscectomy) surgery.
- |           |      |          |
|-----------|------|----------|
| Length    | 9"   | (22.5cm) |
| Tip width | 3/8" | (9.5mm)  |
| Tip depth | ¼"   | (6mm)    |



- 46-3010** BLACK Bayonet Dural Suction Retractor (Macro)  
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Black finish minimizes operative glare.
- |           |        |        |
|-----------|--------|--------|
| Length    | 8½"    | (22cm) |
| Tip width | 11/32" | (22mm) |
| Tip depth | ¼"     | (6mm)  |



- 46-3011** BLACK Bayonet Dural Suction Retractor (Micro)  
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Black finish minimizes operative glare.
- |           |     |         |
|-----------|-----|---------|
| Length    | 8½" | (220mm) |
| Tip width | ¼"  | (6mm)   |
| Tip depth | ¼"  | (6mm)   |



# KARLIN INSTRUMENTS

## RETRACTORS, NERVE ROOT

---



---

**46-3012** 90° DURAL Suction Retractor, Black (Micro)  
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Blackened to reduce glare.

Working distance	4 <sup>3</sup> / <sub>4</sub> "	(120mm)
Handle length	4 <sup>5</sup> / <sub>8</sub> "	(117mm)
Tip width	9/ <sub>32</sub> "	(8mm)
Tip depth	1/ <sub>4</sub> "	(6mm)

---



---

**46-3013** BLACK 90° DURAL Suction Retractor (Standard Macro)  
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction hole in handle. Blackened to reduce glare.

Working distance	4 <sup>3</sup> / <sub>4</sub> "	(120mm)
Handle length	4 <sup>1</sup> / <sub>2</sub> "	(114mm)
Tip width	3/ <sub>8</sub> "	(9.5mm)
Tip depth	1/ <sub>4</sub> "	(6mm)

---

# KARLIN INSTRUMENTS RETRACTORS, NERVE ROOT

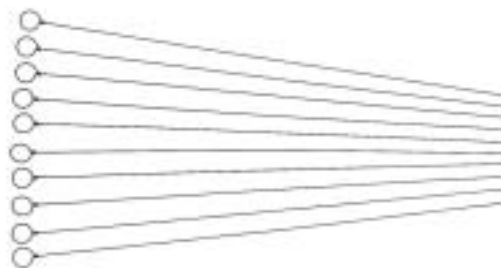
- 46-3014** BLACK 90° DURAL Suction Retractor (Extended Micro)  
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction hole in handle. Blackened to reduce glare.
- |                  |                                 |         |
|------------------|---------------------------------|---------|
| Working distance | 5 <sup>3</sup> / <sub>4</sub> " | (146mm) |
| Handle length    | 4 <sup>5</sup> / <sub>8</sub> " | (117mm) |
| Tip width        | 1/4"                            | (6mm)   |
| Tip depth        | 1/4"                            | (6mm)   |



- 46-3015** BLACK 90° DURAL Suction Retractor (Extended Macro)  
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction hole in handle. Blackened to reduce glare.
- |                  |                                 |         |
|------------------|---------------------------------|---------|
| Working distance | 5 <sup>3</sup> / <sub>4</sub> " | (146mm) |
| Handle length    | 4 <sup>5</sup> / <sub>8</sub> " | (117mm) |
| Tip width        | 3/8"                            | (9.5mm) |
| Tip depth        | 1/4"                            | (6mm)   |



- 46-4000** Wire Stylets used with Dural Suction Retractors for cleaning and storage. (Package of 10)



SPINE

# KARLIN INSTRUMENTS OSTEOTOMES



**46-3050** Curved Stiletto Osteotome Set with Case  
Set Includes:

Length 8½" (216mm)  
Tip Size

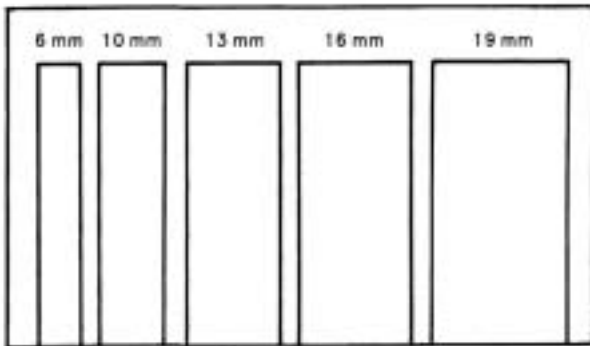
- 46-3051** Osteotome, Curved ¼" (6mm)
- 46-3052** Osteotome, Curved ⅜" (10mm)
- 46-3053** Osteotome, Curved ½" (13mm)
- 46-3054** Osteotome, Curved ⅝" (16mm)
- 46-3055** Osteotome, Curved ¾" (19mm)

**46-3056** Case for Curved Stiletto Osteotome

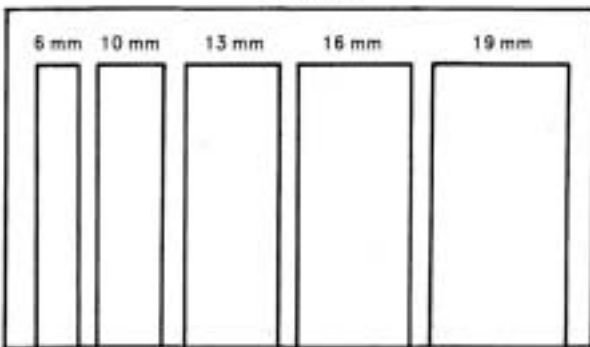
**46-3060** Straight Stiletto Osteotome Set with Case  
Set Includes:

Length 8½" (216mm)  
Tip Size

- 46-3061** Osteotome, Straight ¼" (6mm)
- 46-3062** Osteotome, Straight ⅜" (10mm)
- 46-3063** Osteotome, Straight ½" (13mm)
- 46-3064** Osteotome, Straight ⅝" (16mm)
- 46-3065** Osteotome, Straight ¾" (19mm)
- 46-3066** Case for Straight Stiletto Osteotome



46-3051



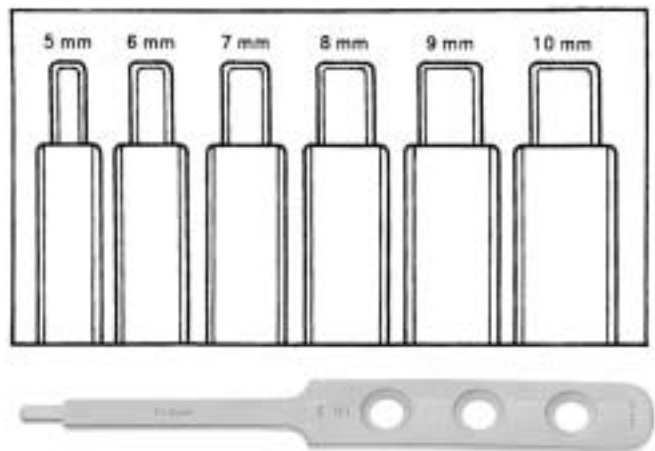
46-3061



# KARLIN INSTRUMENTS CERVICAL SPANNERS

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

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



SPINE

# KARLIN INSTRUMENTS LUMBAR SPANNERS

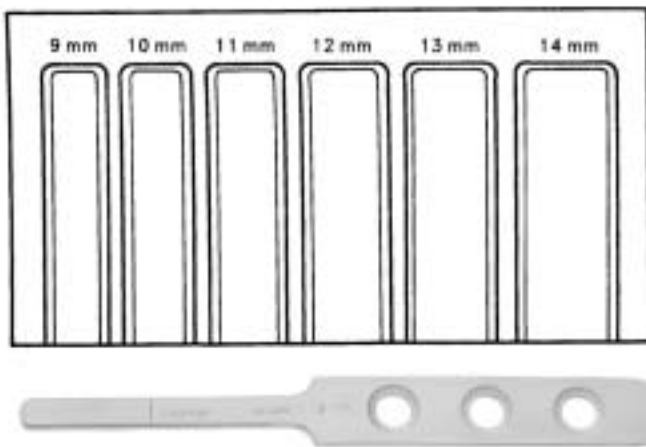
---



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

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

---



# KNIFE, MICRO

- 46-3174** KARLIN™ Micro-Knife Handle combines patented\* back bayonet design, with a simple blade locking feature. Order blades separately.
- 46-3177** Micro Tip Blade, 2mm
- 46-3178** Ultra Micro Tip Blade, 1.5mm  
Blades packaged sterile, 10 per package.



\*Patent No. D312,310

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

- 46-3182** Straight
- 46-3183** Bayonet
- |                   |      |         |
|-------------------|------|---------|
| Instrument length | 9.1" | (23cm)  |
| Working distance  | 4.6" | (12cm)  |
| Handle diameter   | 0.3" | (0.7cm) |
- KARLIN™ Disposable Blades
- 46-3177** 2mm Micro Tip
- 46-3178** 1.5mm Ultra Tip



# MALLETS

SPINE



- 88-1005** CODMAN Hammer
- |                     |         |          |
|---------------------|---------|----------|
| Small face diameter | 3/4"    | (19mm)   |
| Ball pean           |         |          |
| Face diameter       | 1 1/16" | (11mm)   |
| Weight              | 8 oz.   | (227 gm) |
| Length              | 7 1/2"  | (191mm)  |
- 88-1006** CODMAN Hammer
- |                     |        |          |
|---------------------|--------|----------|
| Large face diameter | 1"     | (25.4mm) |
| Ball pean           |        |          |
| Face diameter       | 7/8"   | (22mm)   |
| Weight              | 13 oz. | (368 gm) |
| Length              | 9"     | (229mm)  |

# MALLETS

---



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

---



<b>88-2520</b>	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.			
<b>46-3179</b>	KARLIN MAGNUM Mallet, Small		
Weight:	7.1 oz.	(200 grms.)	
Length:	9.5 in.	(24.1 cm)	
Diameter:	1.0 in.	(2.5 cm)	
<b>46-3146</b>	KARLIN MAGNUM Mallet, Large		
Weight:	12 oz.	(340 grms.)	
Length:	9.72 in.	(24.7 cm)	
Diameter:	1.24 in.	(2.5 cm)	

---

# OSSEOUS DISSECTION KIT

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

**46-2600**

Micro Osseous Dissection Kit

Includes:

Working Distance: 2¾" (70mm)

**46-2601**

Micro Rongeur, Bayonet, 40° Up-Bite, 1mm

**46-2602**

Micro Rongeur, Bayonet, 40° Up-Bite, 2mm

**46-2603**

Micro Rongeur, Bayonet, 40° Up-Bite, 3mm

Working Distance: 3" (76mm)

**46-2604**

Micro Curette, Bayonet, Straight 00

**46-2605**

Micro Curette, Bayonet, Straight 000

**46-2606**

Micro Curette, Bayonet, Straight 0000

**46-2607**

Micro Curette, Bayonet, 45° Up 00

**46-2608**

Micro Curette, Bayonet, 45° Up 000

**46-2609**

Micro Curette, Bayonet, 45° Up 0000

**46-2610**

Micro Curette, Bayonet, 80° Down 00

**46-2611**

Micro Curette, Bayonet, 80° Down 000

**46-2612**

Micro Curette, Bayonet, 80° Down 0000

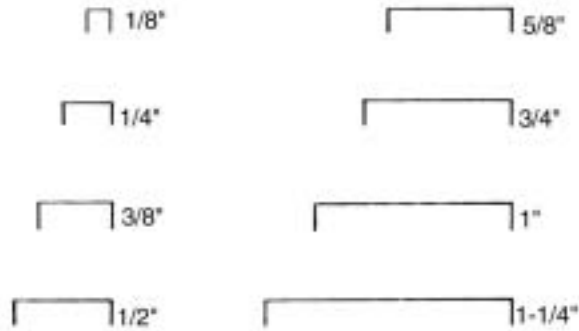
**46-2613**

ULTEM® Sterilizing Case for 46-2600



# OSTEOTOMES

---




---

### CODMAN Osteotomes, straight.

	Length	11"	(279mm)
<b>46-2000</b>	Tip width	1/4"	(6mm)
<b>46-2001</b>	Tip width	3/8"	(10mm)
<b>46-2002</b>	Tip width	1/2"	(13mm)
<b>46-2003</b>	Tip width	5/8"	(16mm)
<b>46-2004</b>	Tip width	3/4"	(19mm)
<b>46-2005</b>	Tip width	1"	(25mm)
<b>46-2006</b>	Tip width	1 1/4"	(32mm)

### CODMAN Osteotomes, curved.

	Length	11"	(279mm)
<b>46-2010</b>	Tip width	1/4"	(6mm)
<b>46-2011</b>	Tip width	3/8"	(10mm)
<b>46-2012</b>	Tip width	1/2"	(13mm)
<b>46-2013</b>	Tip width	5/8"	(16mm)
<b>46-2014</b>	Tip width	3/4"	(19mm)
<b>46-2015</b>	Tip width	1"	(25mm)
<b>46-2016</b>	Tip width	1 1/4"	(32mm)

Fits in Codman sterilizing and carrying case 21-1020.

---

# OSTEOTOMES

**21-1020** CODMAN Sterilizing and Carrying Case.  
Holds eight assorted 11" (279mm) gouges or osteotomes.

Length	11 <sup>3</sup> / <sub>4</sub> "	(298mm)
Width	8 <sup>7</sup> / <sub>8</sub> "	(225mm)
Depth (on each side)	1 <sup>1</sup> / <sub>4</sub> "	(32mm)



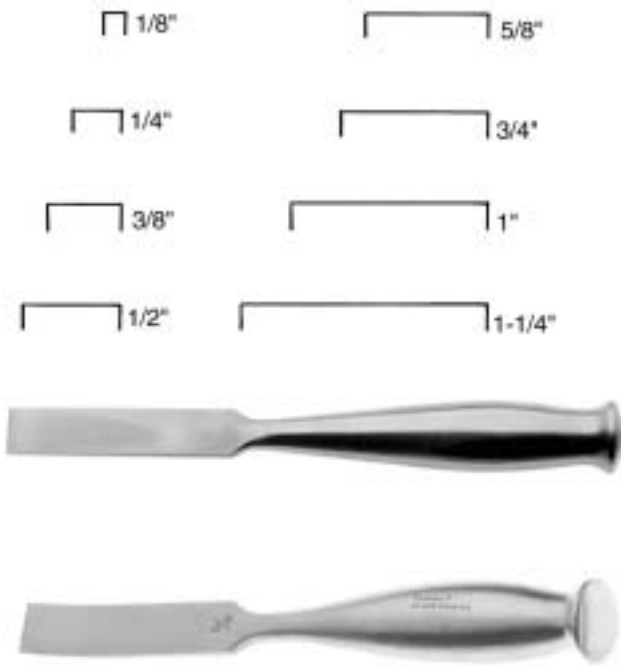
## CODMAN Spinal Fusion Osteotomes

	Straight		
<b>46-1021</b>	Tip width	1/4"	(6mm)
	Length	7 1/2"	(191mm)
<b>46-1025</b>	Tip width	1/4"	(6mm)
	Length	9 1/2"	(241mm)
<b>46-1022</b>	Tip width	5/16"	(8mm)
	Length	9 1/2"	(241mm)
<b>46-1019</b>	Tip width	3/8"	(10mm)
	Length	9 1/2"	(241mm)
	Slightly curved		
<b>46-1024</b>	Tip width	1/4"	(6mm)
	Length	9 1/2"	(241mm)
	Curved		
<b>46-1020</b>	Tip width	1/4"	(6mm)
	Length	7 1/2"	(191mm)
<b>46-1026</b>	Tip width	1/4"	(6mm)
	Length	9 1/2"	(241mm)
	Full curved		
<b>46-1023</b>	Tip width	5/16"	(8mm)
	Length	9 1/2"	(241mm)



SPINE

# OSTEOTOMES



	SMITH-PETERSEN Osteotomes, straight.	
	Blade thickness	2mm
	Length	8" (203mm)
<b>46-2500</b>	Tip width	1/4" (6mm)
<b>46-2501</b>	Tip width	3/8" (10mm)
<b>46-2502</b>	Tip width	1/2" (13mm)
<b>46-2503</b>	Tip width	5/8" (16mm)
<b>46-2504</b>	Tip width	3/4" (19mm)
<b>46-2505</b>	Tip width	1" (25mm)
<b>46-2506</b>	Tip width	1 1/4" (32mm)
	SMITH-PETERSEN Osteotomes, curved.	
	Blade thickness	2mm
	Length	8" (203mm)
<b>46-2510</b>	Tip width	1/4" (6mm)
<b>46-2511</b>	Tip width	3/8" (10mm)
<b>46-2512</b>	Tip width	1/2" (13mm)
<b>46-2513</b>	Tip width	5/8" (16mm)
<b>46-2514</b>	Tip width	3/4" (19mm)
<b>46-2515</b>	Tip width	1" (25mm)
<b>46-2516</b>	Tip width	1 1/4" (32mm)

Fit in Codman Gouge and Osteotome case 21-2500.

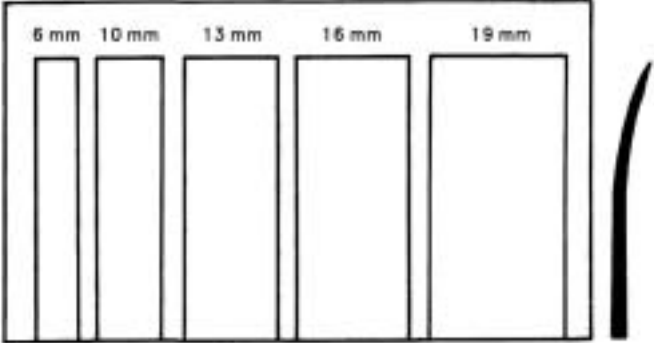


<b>21-2500</b>	CODMAN Gouge and Osteotome Case, holds seven SMITH-PETERSEN gouges or osteotomes.	
	Length	11" (279mm)
	Width	6 7/8" (175mm)
	Depth	2 1/4" (57mm)

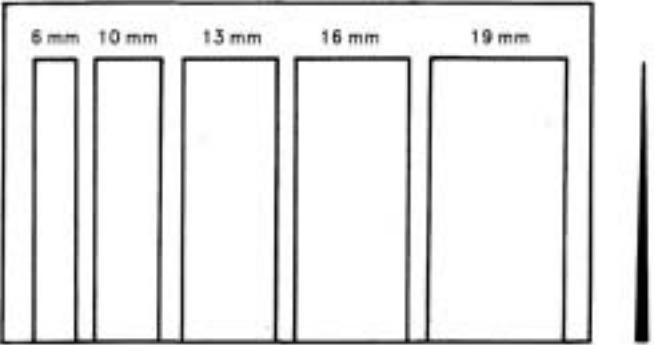


# OSTEOTOMES

<b>46-3050</b>	Curved Stiletto Osteotome Set with Case		
	Set Includes:		
	Length	8½"	(216mm)
		Tip Size	
<b>46-3051</b>	Osteotome, Curved	¼"	(6mm)
<b>46-3052</b>	Osteotome, Curved	⅜"	(10mm)
<b>46-3053</b>	Osteotome, Curved	½"	(13mm)
<b>46-3054</b>	Osteotome, Curved	⅝"	(16mm)
<b>46-3055</b>	Osteotome, Curved	¾"	(19mm)
<b>46-3056</b>	Case for Curved Stiletto Osteotome		
<b>46-3060</b>	Straight Stiletto Osteotome Set with Case		
	Set Includes:		
	Length	8½"	(216mm)
		Tip Size	
<b>46-3061</b>	Osteotome, Straight	¼"	(6mm)
<b>46-3062</b>	Osteotome, Straight	⅜"	(10mm)
<b>46-3063</b>	Osteotome, Straight	½"	(13mm)
<b>46-3064</b>	Osteotome, Straight	⅝"	(16mm)
<b>46-3065</b>	Osteotome, Straight	¾"	(19mm)
<b>46-3066</b>	Case for Straight Stiletto Osteotome		



46-3051



46-3061

SPINE

# RETRACTORS HAND-HELD



CODMAN Blade Retractors			
	Blade length	3"	(76mm)
	Handle length	4½"	(114mm)
<b>50-1050</b>	Blade width		18mm
<b>50-1052</b>	Blade width		20mm
<b>50-1053</b>	Blade width		23mm



<b>50-1022</b>	CODMAN-CUSHING Vein Retractor		
	Blade width		9.5mm
	Blade depth		6.4mm
	Length	7¾"	(197mm)



MYERDING Laminectomy Retractors			
<b>50-1065</b>	Blade width	5/8"	(16mm)
	Blade depth	2"	(51mm)
	Length	9"	(229mm)
<b>50-1066</b>	Blade width	1"	(25mm)
	Blade depth	3"	(76mm)
	Length	9½"	(241mm)
<b>50-1067</b>	Blade width	2"	(51mm)
	Blade depth	3½"	(89mm)
	Length	9½"	(241mm)



TAYLOR Spinal Retractors			
<b>50-1085</b>	Blade width	1¾"	(30mm)
	Blade depth	3"	(76mm)
	Length	7¼"	(184mm)
<b>50-1086</b>	Blade width	1¼"	(32mm)
	Blade depth	4"	(102mm)
	Length	7¼"	(184mm)

# RETRACTORS HAND-HELD, NERVE ROOT

**50-1326** CAMPBELL Nerve Root Retractor, malleable shaft.  
Blade width  $\frac{3}{8}$ " (10mm)  
Length  $8\frac{1}{2}$ " (216mm)



**50-1209** CODMAN Flexible Nerve Root Retractor  
Length  $8\frac{1}{2}$ " (210mm)  
Blade length 1" (26mm)  
Blade width  $\frac{5}{16}$ " (8mm)



**46-3004** SILVER Bayonet Dural Suction Retractor (Micro Tip)  
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Reflective finish to benefit small wound (microdiscectomy) surgery.  
Length  $8\frac{1}{2}$ " (220mm)  
Tip width  $\frac{5}{16}$ " (8mm)  
Tip depth  $\frac{1}{4}$ " (6mm)



**46-3005** SILVER Bayonet Dural Suction Retractor (Macro Tip)  
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Reflective finish to benefit small wound (microdiscectomy) surgery.  
Length 9" (22.5cm)  
Tip width  $\frac{3}{8}$ " (9.5mm)  
Tip depth  $\frac{1}{4}$ " (6mm)



# RETRACTORS

## HAND-HELD, NERVE ROOT

---



- 46-3010** BLACK Bayonet Dural Suction Retractor (Macro)  
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Black finish minimizes operative glare.
- |           |     |        |
|-----------|-----|--------|
| Length    | 8½" | (22cm) |
| Tip width | 1½" | (22mm) |
| Tip depth | ¼"  | (6mm)  |
- 



- 46-3011** BLACK Bayonet Dural Suction Retractor (Micro)  
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Black finish minimizes operative glare.
- |           |     |         |
|-----------|-----|---------|
| Length    | 8½" | (220mm) |
| Tip width | ¼"  | (6mm)   |
| Tip depth | ¼"  | (6mm)   |
- 



- 46-3012** 90° DURAL Suction Retractor, Black (Micro)  
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Blackened to reduce glare.
- |                  |     |         |
|------------------|-----|---------|
| Working distance | 4¾" | (120mm) |
| Handle length    | 4⅝" | (117mm) |
| Tip width        | ⅞"  | (8mm)   |
| Tip depth        | ¼"  | (6mm)   |
-

# RETRACTORS HAND-HELD, NERVE ROOT

- 46-3013** BLACK 90° DURAL Suction Retractor (Standard Macro)  
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction hole in handle. Blackened to reduce glare.
- |                  |     |         |
|------------------|-----|---------|
| Working distance | 4¾" | (120mm) |
| Handle length    | 4½" | (114mm) |
| Tip width        | ⅜"  | (9.5mm) |
| Tip depth        | ¼"  | (6mm)   |



- 46-3014** BLACK 90° DURAL Suction Retractor (Extended Micro)  
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction hole in handle. Blackened to reduce glare.
- |                  |     |         |
|------------------|-----|---------|
| Working distance | 5¾" | (146mm) |
| Handle length    | 4⅝" | (117mm) |
| Tip width        | ¼"  | (6mm)   |
| Tip depth        | ¼"  | (6mm)   |

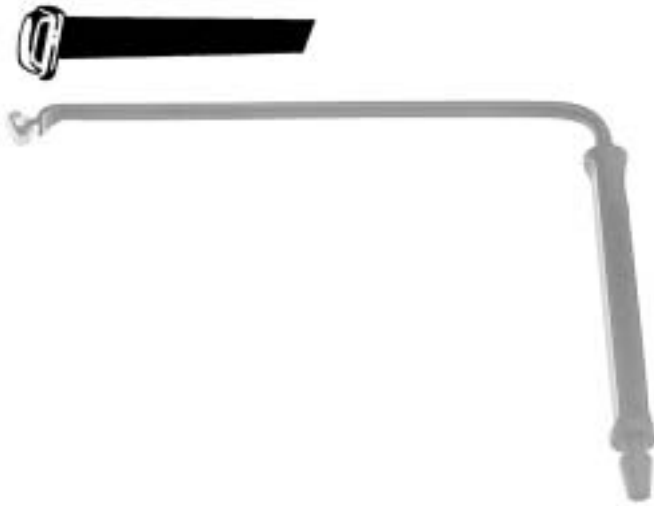


SPINE

# RETRACTORS

## HAND-HELD, NERVE ROOT

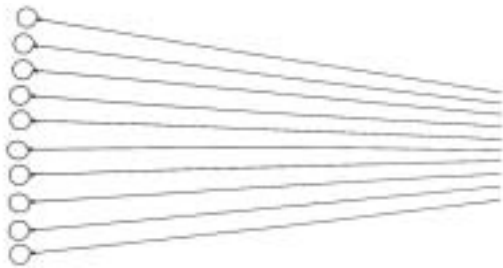
---



---

<b>46-3015</b>	BLACK 90° DURAL Suction Retractor (Extended Macro)
	Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction hole in handle. Blackened to reduce glare.
Working distance	5 $\frac{3}{4}$ " (146mm)
Handle length	4 $\frac{5}{8}$ " (117mm)
Tip width	$\frac{3}{8}$ " (9.5mm)
Tip depth	$\frac{1}{4}$ " (6mm)

---



---

<b>46-4000</b>	Wire Stylets used with Dural Suction Retractors for cleaning and storage.
----------------	---

---

# RETRACTORS HAND-HELD, NERVE ROOT

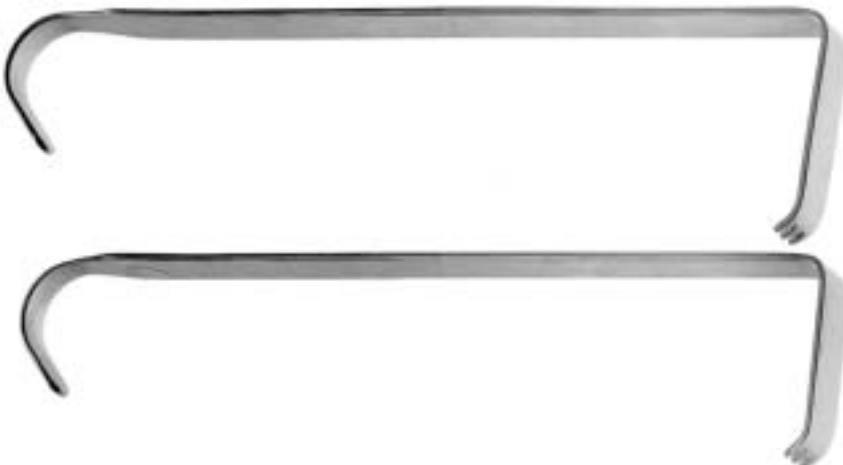
---



---

<b>50-1270</b>	D'ERRICO Nerve Root Retractor		
Blade width	1/4"	(6mm)	
Length	9"	(229mm)	

---



---

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

---

SPINE

# RETRACTORS

## HAND-HELD, NERVE ROOT

---

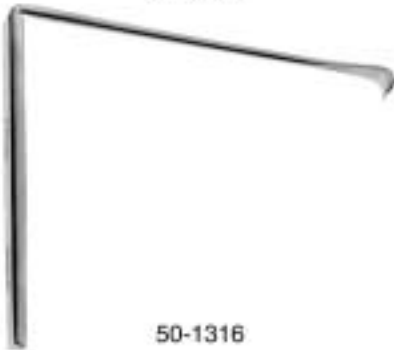


<b>50-1331</b>	HOLSHER Nerve Root Retractor		
	Blade width	$\frac{5}{16}$ "	(7mm)
	Length	$9\frac{3}{4}$ "	(248mm)



50-1315

<b>50-1315</b>	LOVE Nerve Root Retractors		
	Straight		
	Blade width	$\frac{1}{4}$ "	(6mm)
	Length	$7\frac{5}{8}$ "	(194mm)



50-1316

<b>50-1316</b>	90° angle		
	Blade width	$\frac{1}{4}$ "	(6mm)
	Shaft length	4"	(102mm)
	Handle length	$3\frac{3}{4}$ "	(95mm)

<b>50-1317</b>	135° angle		
	Blade width	$\frac{1}{4}$ "	(6mm)
	Shaft length	4"	(102mm)
	Handle length	$3\frac{1}{4}$ "	(95mm)



50-1317



# RETRACTORS HAND-HELD, NERVE ROOT

SCOVILLE Nerve Root Retractors, 90° angle.

	Shaft length	4¼"	(108mm)
	Handle length	5"	(127mm)
<b>50-1291</b>	Blade width	5/16"	(8mm)
<b>50-1293</b>	Blade width	½"	(13mm)



**50-1275** SMITH Nerve Root Suction Retractor, with obturator and thumb control for suction.

Tip width	¼"	(6mm)
Tip depth	⅛"	(3mm)
Shaft length	5¼"	(133mm)
Handle length	7"	(178mm)

**50-1310** WEARY Nerve Root Retractor, black finish.

Blade width	7/16"	(11mm)
Shaft length	5¾"	(146mm)
Handle length	5¾"	(146mm)



# RETRACTORS HAND-HELD, NERVE ROOT

---



---

<b>80-1655</b>	WILLIAMS Microlumbar Discectomy Suction Retractor
Tube diameter	16 Fr.
Length	6" (152mm)

---

# RETRACTORS SELF-RETAINING

---



---

<b>50-1255</b>	BADGLEY Laminectomy Retractor, self-retaining
Blade width	1 $\frac{3}{4}$ " (44mm)
Blade depth	2" (51mm)
Total opening	6 $\frac{3}{8}$ " (162mm)

---

# RETRACTORS SELF-RETAINING

<b>50-1165</b>	BECKMAN Thyroid Retractor, self-retaining with hinged arms. Four prong, sharp blades
Blade width	3/4" (19mm)
Blade depth	1" (25mm)
Total opening	5 1/2" (140mm)
Length	12" (305mm)



	BECKMAN-ADSON Laminectomy Retractors, self-retaining with hinged arms.
<b>50-1160</b>	Four prong, blunt blades
Blade width	1" (25mm)
Blade depth	1 1/4" (32mm)
Total opening	5" (127mm)
Length	12 1/8" (308mm)
<b>50-1161</b>	Four prong, sharp blades
Blade width	1" (25mm)
Blade depth	1" (25mm)
Total opening	5" (127mm)
Length	12" (305mm)
<b>50-1162</b>	Four prong, blunt blades
Blade width	1" (25mm)
Blade depth	1 3/4" (44mm)
Total opening	5 1/2" (140mm)
Length	12" (305mm)



<b>50-1163</b>	BECKMAN-EATON Laminectomy Retractor, self-retaining with hinged arms. Seven prong blades
Blade width	1 3/4" (44mm)
Blade depth	1 7/8" (48mm)
Total opening	5 1/2" (140mm)
Length	12 3/4" (324mm)



	CONE Laminectomy Retractors, self-retaining with hinged arms, 3x4 sharp prongs.
<b>50-1167</b>	Length 6 3/8" (162mm)
<b>50-1168</b>	Length 8" (203mm)



# RETRACTORS SELF-RETAINING

---



**46-3190** KARLIN CRANK FRAME SPINAL RETRACTOR SET

Designed for posterior lumbar and Thoracic spine surgery. Arm design allows the blades to be pre-positioned in the wound prior to attachment. Blades are interchangeable. Multiple blades may be used on each retractor arm.

Maximum width opening 5½" (140mm)

Crank Frame Spinal Retractor Set Includes:

- 46-3191** Crank Frame Retractor Body
  - 46-3192** Crank Frame Retractor Ratchet
  - 46-3193** Blade with Sacral cutout, Left  
1¼" x 1½" (31mm x 38mm)
  - 46-3194** Blade with Sacral cutout, Right  
1¼" x 1½" (31mm x 38mm)
  - 46-3195** Blade with Sacral cutout, Left  
2¼" x 1¾" (57mm x 44mm)
  - 46-3196** Blade with Sacral cutout, Right  
2¼" x 1¾" (57mm x 44mm)
  - 46-3197** Blade, Left/Right (2 in Set, 1 with re-order)  
3" x 2½" (76mm x 64mm)
- 



CRANK FRAME RETRACTOR Blades.

Additional Blades for use with Crank Frame Retractor Body 46-3191.

- 46-3199** Blades, Left and Right pair, offset  
¾" x 1¼" (19mm x 31mm)
  - 46-3200** Blades, Left and Right pair, offset  
¾" x 1¾" (19mm x 44mm)
  - 46-3201** Blades, Left and Right pair, offset  
¾" x 2¼" (19mm x 57mm)
  - 46-3202** Blades, Left and Right pair, offset  
¾" x 3" (19mm x 76mm)
  - 46-3203** Blades, Left and Right pair, offset  
¾" x 3¼" (19mm x 83mm)
  - 46-3204** Blades, Left and Right pair, offset  
¾" x 4" (19mm x 102mm)
  - 46-3205** Blades, Left and Right pair  
2" x 4" (51mm x 102mm)
-

# RETRACTORS SELF-RETAINING

## KARLIN Pronged Retractor Blades

The KARLIN pronged blades are used in conjunction with any of the standard offset blades offered with the Crank Frame Retractor System. These blades expand the capability of the retractor to include unilateral minimal incision surgery.



		Depth
<b>46-3208</b>	Crank Frame Retractor Blade, Single Prong	1.5" (38mm)
<b>46-3209</b>	Crank Frame Retractor Blade, Single Prong	2.0" (51mm)
<b>46-3210</b>	Crank Frame Retractor Blade, Single Prong	2.5" (64mm)
<b>46-3211</b>	Crank Frame Retractor Blade, Double Prong	1.5" (38mm)
<b>46-3212</b>	Crank Frame Retractor Blade, Double Prong	2.0" (51mm)
<b>46-3213</b>	Crank Frame Retractor Blade, Double Prong	2.5" (64mm)

	Crank Frame Retractor Blade, Semi Hemi	
<b>46-3206</b>	Size 1 1/4" x 1 1/4"	(31mm x 31mm)
<b>46-3207</b>	Size 2" x 1 1/4"	(51mm x 31mm)



46-3206



46-3207

# RETRACTORS SELF-RETAINING

---



	MARKHAM-MEYERDING Hemilaminectomy Retractors, self-retaining.	
	Blade width	1" (25mm)
	Blade depth	2" (51mm)
	Total opening	3¾" (95mm)
	Total length	7" (178mm)
<b>50-1205</b>	Left	
<b>50-1206</b>	Right	

---



	MEYERDING Laminectomy Retractors, self-retaining	
	Total opening	3¾" (95mm)
	Total length	6½" (165mm)
<b>50-1190</b>	Blade width	1" (25mm)
	Blade depth	2¼" (57mm)
<b>50-1191</b>	Blade width	1" (25mm)
	Blade depth	2" (51mm)
<b>50-1192</b>	Blade width	1" (25mm)
	Blade depth	1¾" (41mm)

---



<b>50-1212</b>	POPPEN-GELPI Laminectomy Retractor, self-retaining	
	Total opening	2½" (64mm)
	Length	5½" (140mm)

---

# RETRACTORS SELF-RETAINING

<b>50-1211</b>	SELETZ-GELPI Laminectomy Retractor, self-retaining with arms bent at right angles.		
	Arm length	2 <sup>9</sup> / <sub>16</sub> "	(65mm)
	Total opening	3 <sup>3</sup> / <sub>4</sub> "	(95mm)
	Length	6 <sup>1</sup> / <sub>4</sub> "	(159mm)



<b>50-1125</b>	SCOVILLE Hemilaminectomy Retractor, self-retaining. Includes the following:		
<b>50-1126</b>	SCOVILLE Hemilaminectomy Retractor Body		
	Arm length	5 <sup>9</sup> / <sub>16</sub> "	(141mm)
	Total opening	5"	(127mm)
<b>13-1004</b>	SCOVILLE Retractor Hook		
	Length	2"	(51mm)
<b>13-1008</b>	SCOVILLE Retractor Blade		
	Blade width	1"	(25mm)
	Blade depth	2 <sup>1</sup> / <sub>2</sub> "	(64mm)



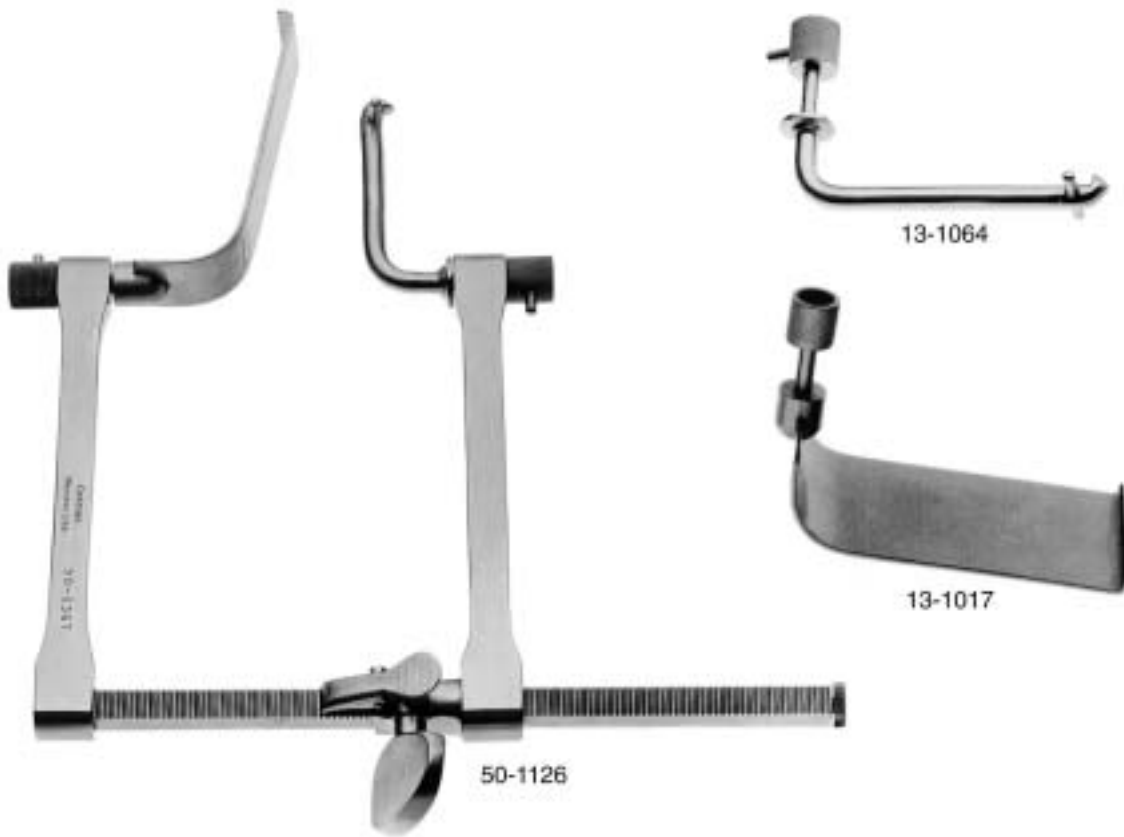
<b>13-1009</b>	Optional Blade		
	SCOVILLE Retractor Blade		
	Blade Width	2"	(51mm)
	Blade Length	2 <sup>1</sup> / <sub>2</sub> "	(64mm)

	SCOVILLE Hooks		
<b>13-1004</b>	Length	2"	(51mm)
<b>13-1005</b>	Length	3"	(76mm)



# RETRACTORS SELF-RETAINING

---



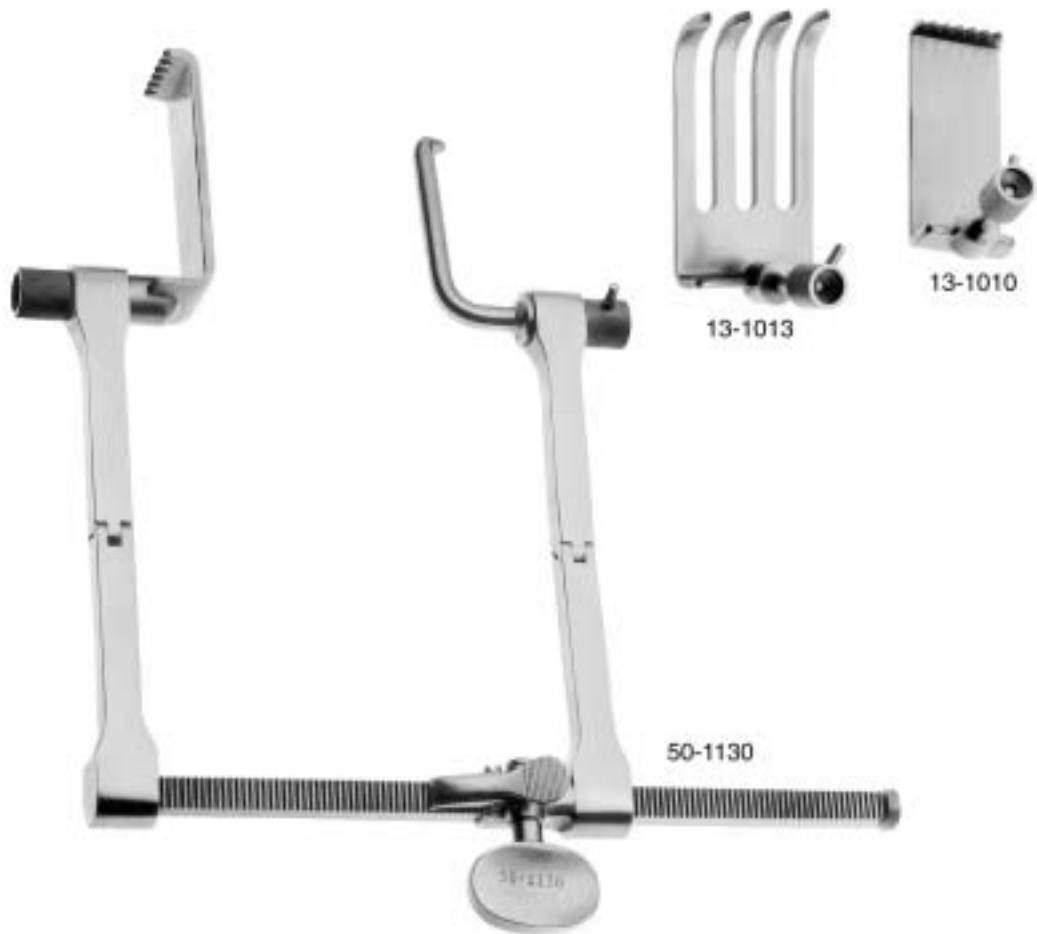

---

<b>50-1367</b>	SCOVILLE Cervical Disc Retractor, self-retaining with ratchet action.	
	Includes the following:	
<b>50-1126</b>	SCOVILLE Cervical Disc Retractor Body	
	Arm length	5 <sup>9</sup> / <sub>16</sub> " (141mm)
	Length	5" (127mm)
	Total opening	5" (127mm)
	SCOVILLE Hooks	
<b>13-1064</b>	Length	1 <sup>1</sup> / <sub>2</sub> " (38mm)
<b>13-1065</b>	Length	2" (51mm)
<b>13-1066</b>	Length	2 <sup>3</sup> / <sub>4</sub> " (70mm)
	MEYERDING Retractor Blades	
<b>13-1061</b>	Blade width	1" (25mm)
	Blade depth	2" (51mm)
<b>13-1017</b>	Blade width	2" (51mm)
	Blade depth	3 <sup>1</sup> / <sub>2</sub> " (89mm)
<b>13-1063</b>	Blade width	1" (25mm)
	Blade depth	3 <sup>1</sup> / <sub>4</sub> " (82mm)

---



# RETRACTORS SELF-RETAINING



<b>50-1130</b>	SCOVILLE-HAVERFIELD Hemilaminectomy Retractor, self-retaining with ratchet action and hinged arms. Includes the following:	
<b>50-1131</b>	SCOVILLE-HAVERFIELD Hemilaminectomy Retractor Body	
	Arm length	5 <sup>3</sup> / <sub>4</sub> " (146mm)
	Total opening	7" (178mm)
	SCOVILLE Retractor Blades	
<b>13-1008</b>	Blade width	1" (25mm)
	Blade depth	2 <sup>1</sup> / <sub>2</sub> " (64mm)
	SCOVILLE Hook	
<b>13-1004</b>	Length	2" (51mm)
	Optional Blades	
<b>13-1010</b>	Blade width	1 <sup>1</sup> / <sub>8</sub> " (29mm)
	Blade depth	2 <sup>5</sup> / <sub>8</sub> " (67mm)
<b>13-1011</b>	Blade width	1" (25mm)
	Blade depth	3 <sup>1</sup> / <sub>2</sub> " (89mm)
	SCOVILLE Retractor Blades, four prong.	
<b>13-1012</b>	Blade width	1 <sup>1</sup> / <sub>2</sub> " (38mm)
	Blade depth	1 <sup>5</sup> / <sub>8</sub> " (41mm)
<b>13-1013</b>	Blade width	1 <sup>3</sup> / <sub>4</sub> " (44mm)
	Blade depth	2 <sup>5</sup> / <sub>8</sub> " (67mm)

# RETRACTORS SELF-RETAINING

---



SCOVILLE Hooks with fixed crossbar.			
<b>13-1064</b>	Crossbar length	1"	(25mm)
	Length	1½"	(38mm)
<b>13-1065</b>	Crossbar length	1"	(25mm)
	Length	2¾"	(56mm)
<b>13-1066</b>	Crossbar length	1"	(25mm)
	Length	21⅝"	(75mm)

---



TAYLOR Laminectomy Blades			
<b>13-1054</b>	Three prong		
	Blade width	1½"	(38mm)
	Blade depth	1¾"	(45mm)
<b>13-1055</b>	Four prong		
	Blade width	2"	(51mm)
	Blade depth	1⅞"	(48mm)
<b>13-1056</b>	Four prong		
	Blade width	2¼"	(57mm)
	Blade depth	2½"	(64mm)
<b>13-1057</b>	Four prong		
	Blade width	2¼"	(57mm)
	Blade depth	3⅞"	(79mm)

---

# RETRACTORS SELF-RETAINING



- 50-1120** VALIN Hemilaminectomy Retractor, self-retaining with rack and pinion action.  
Total opening 4½" (114mm)  
Includes the following:
- 50-1121** VALIN Hemilaminectomy Retractor Body
- 13-1004** SCOVILLE Retractor Hook  
Length 2" (51mm)
- 13-1008** SCOVILLE Retractor Blade  
Blade width 1" (25mm)  
Blade depth 2½" (64mm)

WILLIAMS Micro Discectomy Instruments are designed to be used in the microsurgical treatment of herniated disks.  
WILLIAMS Instruments include:  
WILLIAMS Microlumbar Discectomy Retractor, self-retaining wound retraction for deep exposure.

	Blade Width	Blade Length
<b>80-1650</b>	1cm	5cm
<b>80-1651</b>	2cm	5cm
<b>80-1652</b>	1cm	7cm
<b>80-1653</b>	2cm	7cm



# RETRACTORS SELF-RETAINING

---



---

<b>80-1655</b>	WILLIAMS Microlumbar Discectomy Suction Retractor
Tube diameter	16 Fr.
Length	6" (152mm)

---



---

<b>80-1654</b>	WILLIAMS Discectomy Forceps, single-toothed cup.
Bit size	2mm
Length	5½" (140mm)

---

# RETRACTORS

## TABLE-FIXED, BOOKWALTER SPINAL

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



- 50-4635** BOOKWALTER Spinal Retractor Ring  
Small Round Ring Segments, Pair, 8"  
(203mm)  
**50-4636** Straight Ring Segments, Pair, 4" (101mm)  
**50-4637** Straight Ring Segments, Pair, 6" (152mm)  
**50-4638** Straight Ring Segments, Pair, 8" (203mm)



SPINE

# RETRACTORS

## TABLE-FIXED, BOOKWALTER SPINAL

---



50-4639

---

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

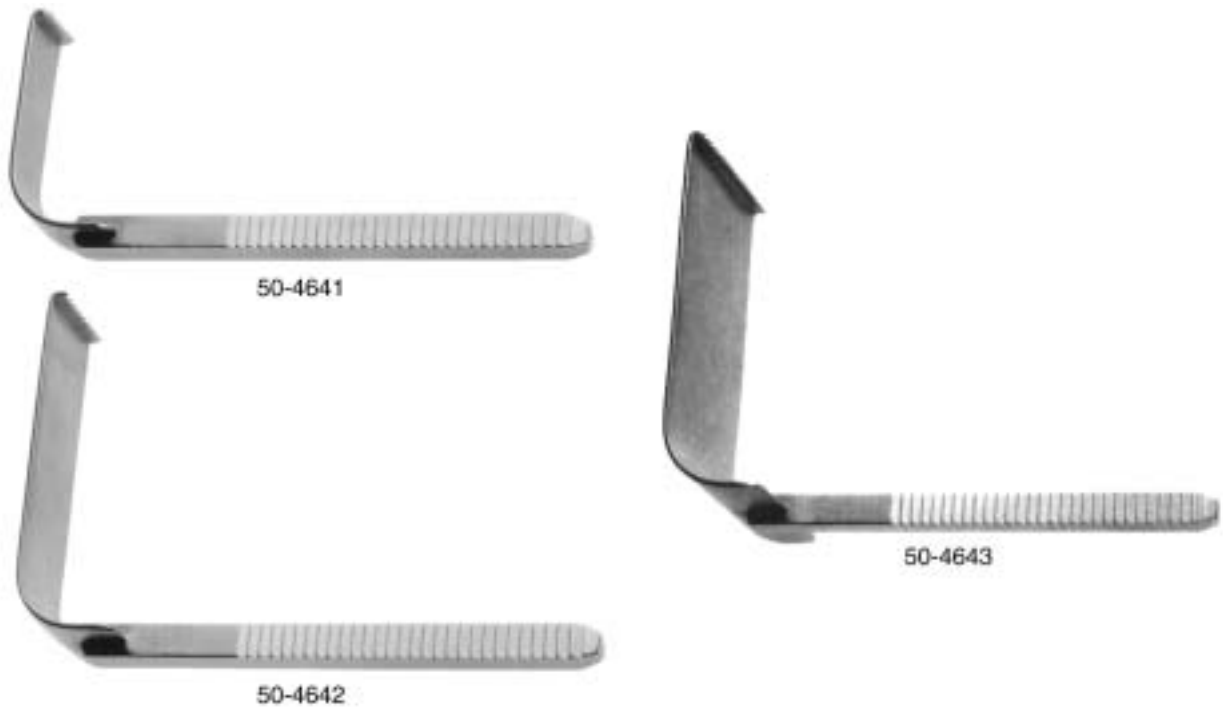
---



50-4640

# RETRACTORS

## TABLE-FIXED, BOOKWALTER SPINAL

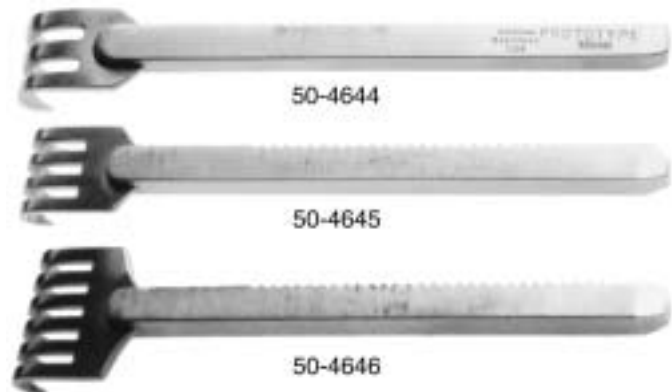


### BOOKWALTER-MEYERDING Retractor Blades

		Length	Width
<b>50-4641</b>	Small	2 $\frac{1}{8}$ " (6cm)	$\frac{2}{3}$ " (17mm)
<b>50-4642</b>	Medium	3 $\frac{1}{8}$ " (8.5cm)	1" (25mm)
<b>50-4643</b>	Large	3 $\frac{3}{4}$ " (9.5cm)	2" (50mm)

### BOOKWALTER Rake Retractors

		Depth	Width
<b>50-4644</b>	3 Prongs	$\frac{3}{4}$ " (19mm)	$\frac{2}{3}$ " (17mm)
<b>50-4645</b>	4 Prongs	$\frac{1}{3}$ " (8.4mm)	$\frac{3}{4}$ " (19mm)
<b>50-4646</b>	6 Prongs	$\frac{1}{3}$ " (8.4mm)	1" (25mm)



# RETRACTORS

## TABLE-FIXED, BOOKWALTER SPINAL

---



---

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

---

---

# RONGEURS

## BONE, SINGLE ACTION

---



---

<b>53-1040</b>	ADSON Cranial Rongeur, straight.		
	Bite		(8mm)
	Length	8"	(203mm)

---



# RONGEURS BONE, SINGLE ACTION

---

<b>53-1035</b>	BACON Cranial Rongeur, angular.
Bite	$\frac{3}{16}$ " (5mm)
Length	$7\frac{3}{4}$ " (197mm)

---



---

<b>53-1030</b>	DE VILBISS Cranial Rongeur, with one extra blade.
Length	$8\frac{1}{16}$ " (205mm)

---

---

<b>53-1108</b>	LEMPERT Rongeur, straight.
Bite	$\frac{1}{16}$ " (2mm)
Length	$6\frac{1}{8}$ " (156mm)

---



SPINE

# RONGEURS BONE, SINGLE ACTION

---




---

<b>30-1310</b>	LISTON Bone Cutting Forceps		
	Length	5½"	(140mm)

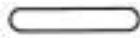
---




---

	LUER Bone Rongeurs		
	Bite	¼"	(6mm)
	Length	7"	(178mm)
<b>53-1010</b>	Straight		
<b>53-1011</b>	Curved		

---




---

	REINER Bone Rongeurs, curved.		
	Length	7"	(178mm)
<b>53-1015</b>	Bite		(3mm x 13mm)
<b>53-1016</b>	Bite		(4mm x 14mm)

---



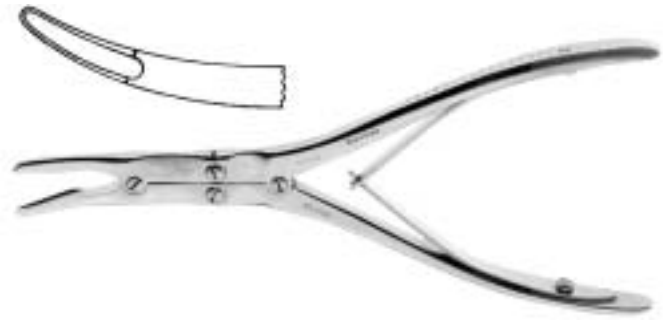

---

<b>53-1055</b>	STOOKEY Cranial Rongeur, angular.		
	Bite		(3mm)
	Length	7¾"	(187mm)

---

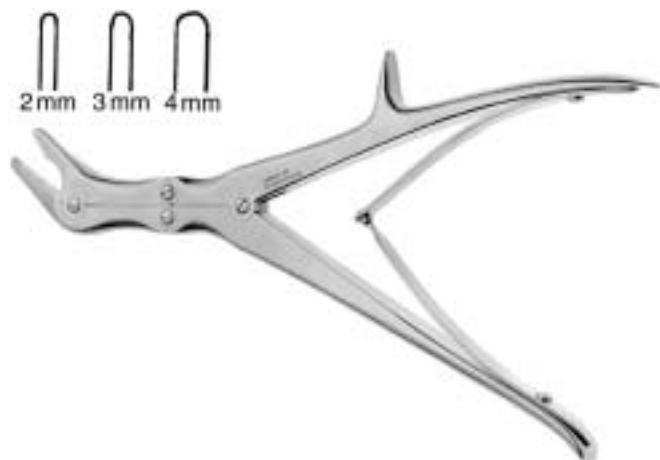
# RONGEURS BONE, DOUBLE ACTION

**53-1100** BEYER Rongeur, curved, double-action.  
 Bite  $\frac{1}{16}$ " (2.5mm)  
 Length 7" (178mm)



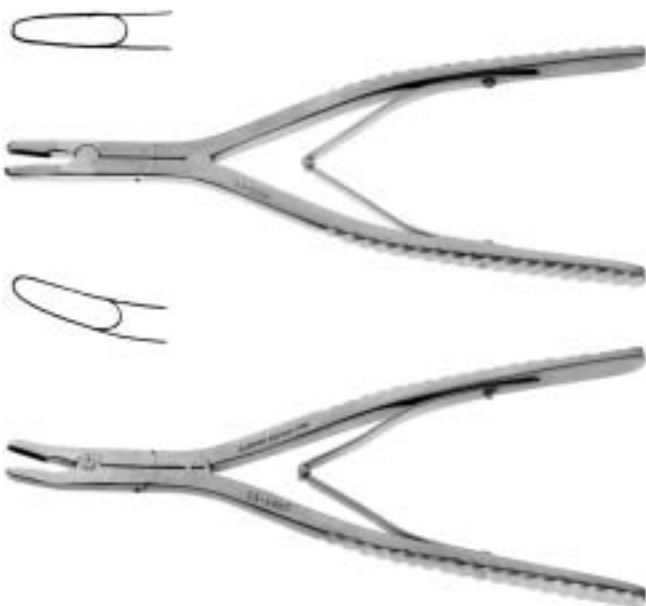
**56-8040** DALE First Rib Rongeur, double-action.  
 Bite  $\frac{1}{8}$ " 3mm  
 Length  $14\frac{1}{2}$ " (368mm)

ECHLIN Laminectomy Rongeurs,  
 double-action, angular  
 Length  $8\frac{3}{4}$ " (222mm)  
**53-1045** Bite 2mm  
**53-1046** Bite 3mm  
**53-1047** Bite 4mm

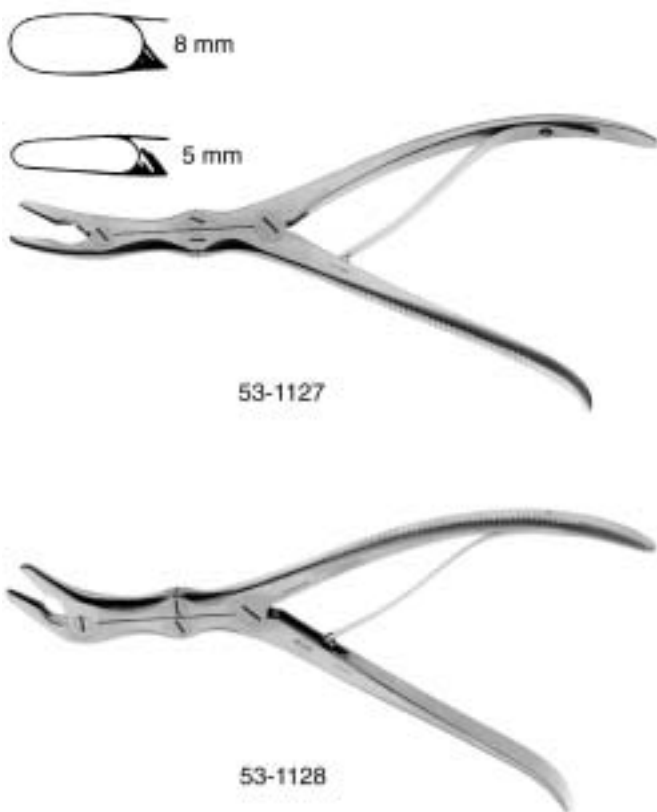


SPINE

# RONGEURS BONE, DOUBLE ACTION



	FULTON Laminectomy Rongeurs, cup size 15mm x 16mm narrow blade, double-action.		
	Length	7½"	(191mm)
<b>53-1060</b>	Straight		
<b>53-1061</b>	Slight curved		
	Length	9½"	(241mm)
<b>53-1066</b>	Straight		
<b>53-1067</b>	Slightly curved		



	CODMAN LEKSELL Laminectomy Rongeurs, double-action.		
<b>53-1125</b>	Regular curve, wide jaw		
	Bite	8mm	
	Length	9"	(229mm)
<b>53-1126</b>	Full curve, wide jaw		
	Bite	8mm	
	Length	9"	(229mm)
<b>53-1127</b>	Regular curve, narrow jaw		
	Bite	5mm	
	Length	9"	(229mm)
<b>53-1128</b>	Full curve, narrow jaw		
	Bite	5mm	
	Length	9"	(229mm)

# RONGEURS BONE, DOUBLE ACTION

**30-1290** RUSKIN Bone Cutting Forceps, double-action.  
Length 7¼" (184mm)



RUSKIN Bone Rongeurs, double-action.  
Length 7¼" (184mm)  
Bite (4mm x 33mm)  
**53-1310** Straight  
**53-1311** Curved  
Bite (5mm x 33mm)  
**53-1312** Straight  
**53-1313** Curved



SMITH-PETERSEN Laminectomy Rongeurs, double-action.  
Bite (4mm x 15mm)  
Length 7½" (191mm)  
**53-1080** Straight  
**53-1081** Slightly curved  
Length 9½" (241mm)  
**53-1083** Straight  
**53-1084** Slightly curved  
**53-1085** Full curved



SPINE

# RONGEURS BONE, DOUBLE ACTION

---



---

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

---



---

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

---

# RONGEURS BONE, DOUBLE ACTION

	STILLE-LUER Rongeurs		
	Bite		10mm (216mm)
<b>53-1130</b>	Length	8½"	
	Straight		
<b>53-1131</b>	Curved		
	Bite		5mm (229mm)
<b>53-1133</b>	Length	9½"	
	Angular		
<b>53-1118</b>	Angular, flat lower jaw		



<b>53-1095</b>	ZAUFGAL-JANSEN Rongeur, double-action, curved.		
	Bite		(4mm x 30mm)
	Length	6¾"	(171mm)



SPINE

# RONGEURS IVD



CODMAN Intervertebral Disc Rongeurs		
	Shaft length	7" (178mm)
<b>53-1171</b>	Cup	4x8mm
<b>53-1220</b>	Cup	6x10mm
<b>53-1225</b>	Cup	6x12mm



CODMAN Intervertebral Disc Rongeurs		
	Cup	6x10mm
	Shaft length	6" (152mm)
<b>53-1221</b>	Straight	
<b>53-1222</b>	Curved up	
<b>53-1223</b>	Curved down	





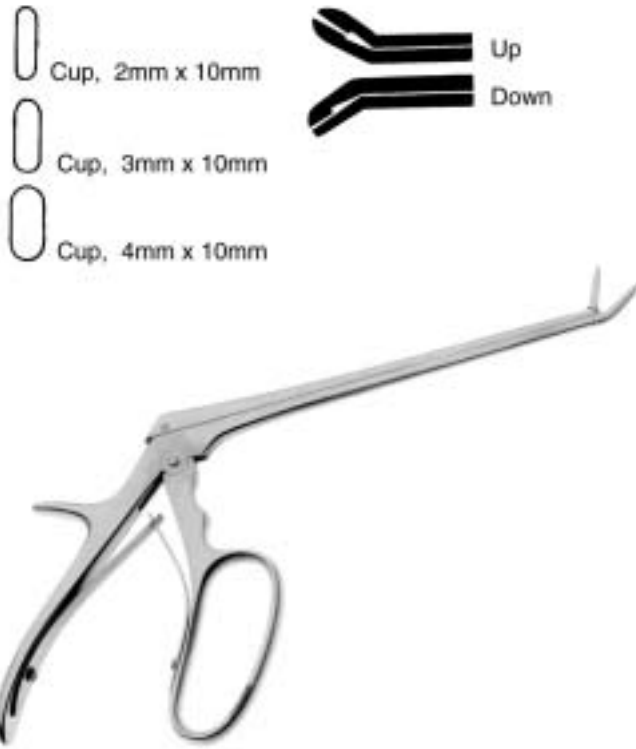
CUSHING Intervertebral Disc Rongeurs, cup shaped jaws.			
	Cup		2 x 10mm
<b>53-1290</b>	Straight		
	Shaft length	5"	(127mm)
<b>53-1291</b>	Curved up		
	Shaft length	5"	(127mm)
<b>53-1292</b>	Curved down		
	Shaft length	5"	(127mm)
<b>53-1195</b>	Straight		
	Shaft length	6"	(152mm)
<b>53-1196</b>	Curved up		
	Shaft length	6"	(152mm)
<b>53-1197</b>	Curved down		
	Shaft length	6"	(152mm)
<b>53-1230</b>	Straight		
	Shaft length	7"	(178mm)
<b>53-1232</b>	Curved up		
	Shaft length	7"	(178mm)
<b>53-1233</b>	Curved down		
	Shaft length	7"	(178mm)



DELICATE Intervertebral Disc Rongeurs			
	Cup		3 x 10mm
	Shaft length	6"	(152mm)
<b>53-1250</b>	Straight		
<b>53-1251</b>	Curved up		
<b>53-1252</b>	Curved down		



# RONGEURS IVD



FERRIS SMITH Intervertebral Disc Rongeurs		
Shaft length	7"	(178mm)
Cup		2x10mm
<b>53-1159</b>	Straight	
<b>53-1160</b>	Curved up	
<b>53-1161</b>	Curved down	
	Cup	3x10mm
<b>53-1162</b>	Straight	
<b>53-1163</b>	Curved up	
<b>53-1164</b>	Curved down	
	Cup	4x10mm
<b>53-1165</b>	Straight	
<b>53-1166</b>	Curved up	
<b>53-1167</b>	Curved down	



<b>53-1224</b>	HOEN Intervertebral Disc Rongeur, fenestrated jaws.	
	Cup	(4mm x 12mm)
	Shaft length	5½" (140mm)

LOVE-GRUENWALD Intervertebral Disc

Rongeurs, cup shaped jaws.

	Cup		3 x 10mm
53-1295	Straight	Shaft length	5" (127mm)
53-1296	Curved up		
53-1297	Curved down		
53-1200	Straight	Shaft length	6" (152mm)
53-1201	Curved up		
53-1202	Curved down		
53-1235	Straight	Shaft length	7" (178mm)
53-1236	Curved up		
53-1237	Curved down		



53-1262	OLDBERG Intervertebral Disc Rongeur		
	Cup		6mm
	Shaft length	7"	(178mm)

# RONGEURS IVD



<b>53-1255</b>	PEAPOD Intervertebral Disc Rongeur, curved up.	
	Cup	2x6mm
	Shaft length	5½" (140mm)



	SCHLESINGER Intervertebral Disc Rongeurs, straight, serrated cup jaws.	
	Shaft length	6" (152mm)
<b>53-1190</b>	Cup	2 x 10mm
<b>53-1191</b>	Cup	3 x 10mm
<b>53-1192</b>	Cup	4 x 10mm

# RONGEURS IVD

---

	SELVERSTONE Intervertebral Disc Rongeurs, straight.		
	Shaft length	6"	(152mm)
53-1325	Cup		2 x 3mm
53-1326	Cup		2 x 5mm

---



---

53-1258	SPENCE Intervertebral Disc Rongeur, fenestrated jaws, straight.		
	Cup		3 x 10mm
	Shaft length	6½"	(165mm)

---

  
3mm x 10mm



SPINE

# RONGEURS IVD



SPURLING Intervertebral Disc Rongeurs		
	Cup	4 x 10mm
	Shaft length	5" (127mm)
<b>53-1300</b>	Straight	
	Shaft length	6" (152mm)
<b>53-1210</b>	Straight	
<b>53-1211</b>	Curved up	
<b>53-1212</b>	Curved down	
	Shaft length	7" (178mm)
<b>53-1240</b>	Straight	
<b>53-1241</b>	Curved up	
<b>53-1242</b>	Curved down	



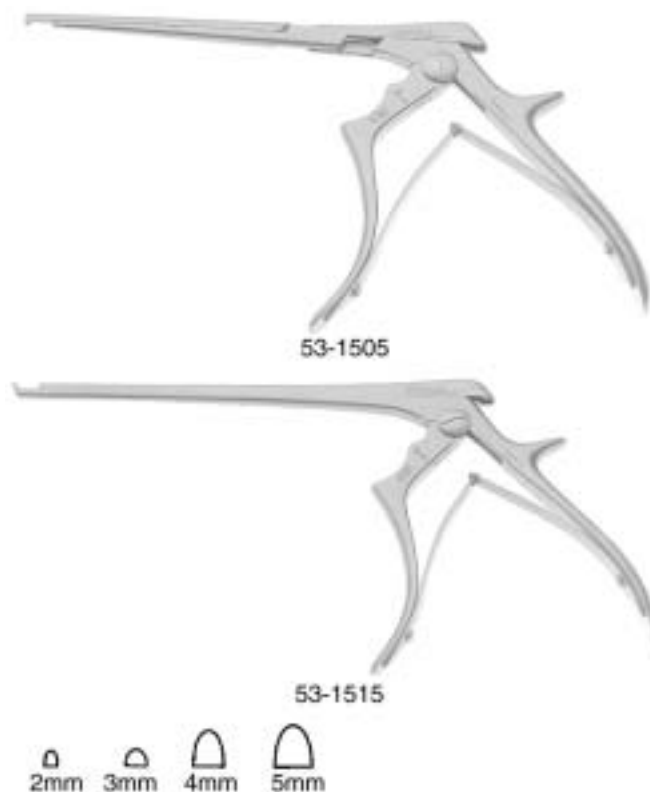
WILDE Intervertebral Disc Rongeurs, straight shaft.		
	Shaft length	5½" (140mm)
<b>53-1280</b>	No. 1	(5.0mm x 15mm)
<b>53-1281</b>	No. 2	(5.2mm x 15mm)
<b>53-1282</b>	No. 3	(6.0mm x 15mm)

# RONGEURS CERVICAL KERRISON

## CLASSIC Thin Footplate Cervical Kerrison Rongeur

Thin footplate designed to easily fit under the cervical lamina. Gold screw for easy identification of thin footplate. Bite size is identified below gold screw. Hardy style handle with ball spring.

	<b>Bite Size</b>	<b>Angle</b>	<b>Shaft Length</b>
53-1500	2mm	40° up	6" (152mm)
53-1501	2mm	90° up	6" (152mm)
53-1502	2mm	90° dn	6" (152mm)
53-1503	3mm	40° up	6" (152mm)
53-1504	3mm	90° up	6" (152mm)
53-1505	3mm	90° dn	6" (152mm)
53-1506	4mm	40° up	6" (152mm)
53-1507	4mm	90° up	6" (152mm)
53-1508	4mm	90° dn	6" (152mm)
53-1509	5mm	40° up	6" (152mm)
53-1510	5mm	90° up	6" (152mm)
53-1511	5mm	90° dn	6" (152mm)
53-1512	2mm	40° up	7" (178mm)
53-1513	2mm	90° up	7" (178mm)
53-1514	2mm	90° dn	7" (178mm)
53-1515	3mm	40° up	7" (178mm)
53-1516	3mm	90° up	7" (178mm)
53-1517	3mm	90° dn	7" (178mm)
53-1518	4mm	40° up	7" (178mm)
53-1519	4mm	90° up	7" (178mm)
53-1520	4mm	90° dn	7" (178mm)
53-1521	5mm	40° up	7" (178mm)
53-1522	5mm	90° up	7" (178mm)
53-1523	5mm	90° dn	7" (178mm)
53-1524	2mm	40° up	8" (203mm)
53-1525	2mm	90° up	8" (203mm)
53-1526	2mm	90° dn	8" (203mm)
53-1527	3mm	40° up	8" (203mm)
53-1528	3mm	90° up	8" (203mm)
53-1529	3mm	90° dn	8" (203mm)
53-1530	4mm	40° up	8" (203mm)
53-1531	4mm	90° up	8" (203mm)
53-1532	4mm	90° dn	8" (203mm)
53-1533	5mm	40° up	8" (203mm)
53-1534	5mm	90° up	8" (203mm)
53-1535	5mm	90° dn	8" (203mm)



# RONGEURS KERRISON

---

◻ 51-1085   
 ◻ 51-1086   
 ◻ 51-1087   
 ◻ 51-1088




---

	CODMAN Laminectomy Rongeurs, 40° angle.	
	Shaft length	6 $\frac{7}{8}$ (175mm)
<b>51-1085</b>	Bite	3mm
<b>51-1086</b>	Bite	5mm
	Shaft length	8 (203mm)
<b>51-1087</b>	Bite	3mm
<b>51-1088</b>	Bite	5mm

---




---

	FERRIS SMITH-KERRISON Laminectomy Rongeurs	
	Bite	5mm
	Shaft length	7 $\frac{1}{2}$ " (191mm)
<b>53-1157</b>	Up biting	
<b>53-1158</b>	Down biting	

---



CODMAN KERRISON Laminectomy Rongeurs			
Up biting			
53-1370	Shaft length	6"	(152mm)
53-1371	Bite		3mm
53-1371	Bite		5mm
53-1372	Shaft length	7½"	(191mm)
53-1372	Bite		3mm
53-1373	Bite		5mm
Down biting			
53-1374	Shaft length	6"	(152mm)
53-1374	Bite		3mm
53-1375	Bite		5mm
53-1376	Shaft length	7½"	(191mm)
53-1376	Bite		3mm
53-1377	Bite		5mm

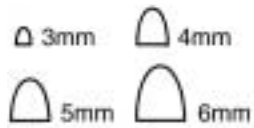


CODMAN KERRISON Laminectomy Rongeurs			
40° Up biting			
53-1385	Shaft length	6"	(152mm)
53-1385	Bite		3mm
53-1386	Bite		5mm
53-1387	Shaft length	7½"	(191mm)
53-1387	Bite		3mm
53-1388	Bite		5mm



SPINE

# RONGEURS KERRISON



## CODMAN Lumbar KERRISON Rongeurs HARDY style handle with ball spring

	Bite Size	Angle	Shaft Length
<b>53-1402</b>	3mm	40° up	7" (178mm)
<b>53-1403</b>	3mm	90° up	7" (178mm)
<b>53-1404</b>	3mm	90° dn	7" (178mm)
<b>53-1405</b>	4mm	40° up	7" (178mm)
<b>53-1406</b>	4mm	90° up	7" (178mm)
<b>53-1407</b>	4mm	90° dn	7" (178mm)
<b>53-1408</b>	5mm	40° up	7" (178mm)
<b>53-1409</b>	5mm	90° up	7" (178mm)
<b>53-1410</b>	5mm	90° dn	7" (178mm)
<b>53-1411</b>	6mm	40° up	7" (178mm)
<b>53-1412</b>	6mm	90° up	7" (178mm)
<b>53-1413</b>	6mm	90° dn	7" (178mm)
<b>53-1414</b>	3mm	40° up	8" (203mm)
<b>53-1415</b>	3mm	90° up	8" (203mm)
<b>53-1416</b>	3mm	90° dn	8" (203mm)
<b>53-1417</b>	4mm	40° up	8" (203mm)
<b>53-1418</b>	4mm	90° up	8" (203mm)
<b>53-1419</b>	4mm	90° dn	8" (203mm)
<b>53-1420</b>	5mm	40° up	8" (203mm)
<b>53-1421</b>	5mm	90° up	8" (203mm)
<b>53-1422</b>	5mm	90° dn	8" (203mm)
<b>53-1423</b>	6mm	40° up	8" (203mm)
<b>53-1424</b>	6mm	90° up	8" (203mm)
<b>53-1425</b>	6mm	90° dn	8" (203mm)
<b>53-1426</b>	3mm	40° up	11" (279mm)
<b>53-1427</b>	4mm	40° up	11" (279mm)
<b>53-1428</b>	5mm	40° up	11" (279mm)
<b>53-1429</b>	6mm	40° up	11" (279mm)



### RANEY Laminectomy Rongeurs

	Bite		7mm
<b>51-1065</b>	Shaft length	6"	(152mm)
<b>51-1066</b>	Shaft length	7½"	(191mm)

### CODMAN SCHLESINGER Cervical Laminectomy Rongeurs

	Shaft length	6"	(152mm)
	Up biting		
<b>53-1380</b>	Bite		3mm
<b>53-1381</b>	Bite		5mm
	Down biting		
<b>53-1382</b>	Bite		3mm
<b>53-1383</b>	Bite		5mm



SPINE

# SHIVERS, RONGEURS

---

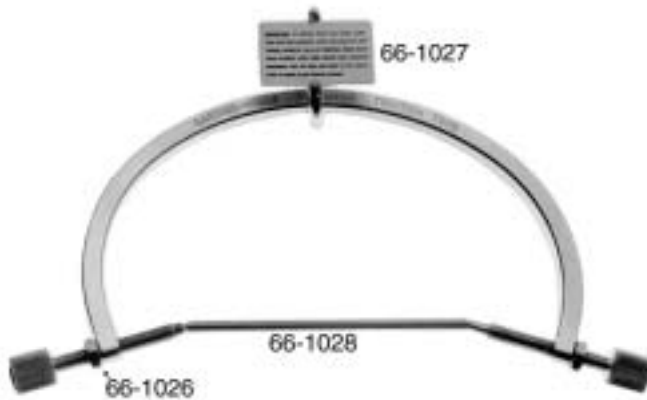


MICROSECT™ Shavers are uniquely designed rongeurs, which shave bone from the underside of the lamina or facet joint without destroying the natural architecture of either structure. Also, due to the thinness of the footplate, the MICROSECT Shaver allows access to compromised neural areas when exposure is otherwise difficult to obtain.

- 47-5030** MICROSECT Shaver 1.5mm  
45° Up Bite      8½ Shaft
  - 47-5031** MICROSECT Shaver 2.0mm  
45° Up Bite      8½ Shaft
  - 47-5032** MICROSECT Shaver 2.5mm  
45° Up Bite      8½ Shaft
  - 47-5033** MICROSECT Shaver 3.0mm  
45° Up Bite      8½ Shaft
  - 47-5034** MICROSECT Shaver 4.0mm  
45° Up Bite      8½ Shaft
- 

# SKULL TONGS

---



- 66-1025** GARDNER-WELLS Skull Tong with one spring-loaded point for cervical traction.  
Maximum opening 6¼" (159mm)  
Includes:
  - 66-1026** Adjustment nut (sold each).
  - 66-1027** S-Hook
  - 66-1028** Test Bar
-

# SPANNERS/DISTRACTORS

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

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



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

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



SPINE

# SPREADERS

---



INGE Lamina Spreaders			
<b>61-2516</b>	Total jaw opening	1 1/4"	(32mm)
	Length	6 1/4"	(159mm)
<b>61-2515</b>	Total jaw opening	2 1/2"	(64mm)
	Length	9 1/2"	(241mm)

---



<b>61-2525</b>	LAMINA Spreader		
	Total jaw opening	2"	(51mm)
	Length	9 1/2"	(241mm)

---

# SPONDYLOPHYTE IMPACTION

- 46-3002** LUMBAR SPONDYLOPHYTE IMPACTION SET  
 The impaction set is surgeon designed to correct symptomatic spondylophytes. Complementary instruments have been assembled in a set to meet expected indications. Additional (optional) support instruments are available for broader indications. The set includes one (each) of the following:
- 46-3003** Sterilizing O.R. Display Case  
**46-3005** Silver Bayonet Dural Suction Retractor  
 Macro tip  $\frac{7}{16}$ " (10mm)  
**46-3006** Annular Dissector Perforator  
**46-3007** Offset Central Canal Impactor  
**46-3009** Lateral Gutter Impactor  
**46-3012** Black 90° Dural Suction Retractor  
 Micro tip  $\frac{5}{16}$ " (8mm)



- 46-3003** STERILIZING O. R. DISPLAY CASE  
 Spondylophyte Impaction Set.  
 Designed to house impaction set and/or ancillary instruments: three straight handled instruments and a bayonet (black or silver) Dural Suction Retractor;  
 or:  
 four straight handled instruments and a black 90° Dural Suction Retractor. Keeper Blade holds instruments in place  
 Length: 10" (25cm)  
 Width: 4½" (11cm)  
 Thickness: 5/8" (16mm)

- 46-3005** SILVER Bayonet Dural Suction Retractor (Macro Tip)  
 Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Reflective finish to benefit small wound (microdissectomy) surgery.
- |           |                 |          |
|-----------|-----------------|----------|
| Length    | 9"              | (22.5cm) |
| Tip width | $\frac{3}{8}$ " | (9.5mm)  |
| Tip depth | $\frac{1}{4}$ " | (6mm)    |



SPINE

# SPONDYLOPHYTE IMPACTION

---



- 
- 46-3006** ANNULAR Dissector Perforator  
Used to reduce annular bulge following discectomy; depressing it into the interspace to enhance and assist in removal of recalcitrant nucleus. May serve to dissect scar tissue from dural sac. Atraumatic tip geometry.
- |             |  |        |
|-------------|--|--------|
| Length:     | 8 $\frac{3}{4}$ "                              | (22cm) |
| Tip length: | $\frac{1}{2}$ "                                | (13mm) |
| Tip tapers  | $\frac{1}{4}$ " (6mm) to $\frac{1}{8}$ " (3mm) |        |
- 



- 
- 46-3007** OFFSET Central Canal Impactor (Standard)  
Used to impact symptomatic spondylophytes. Placed beneath and clear of neurostructures. Slip resistant, textured impaction surface is held perpendicular to surrounding bone planes and impacted with a mallet. Used to impact symptomatic spondylophytes. Placed beneath and clear of neurostructures. Slip resistant, textured impaction surface is held perpendicular to surrounding bone planes and impacted with a mallet.
- |            |                   |        |
|------------|-------------------|--------|
| Length     | 8 $\frac{3}{4}$ " | (22cm) |
| Tip length | $\frac{7}{16}$ "  | (10mm) |
| Tip width  | $\frac{7}{32}$ "  | (5mm)  |
- 



- 
- 46-3009** LATERAL Gutter Impactor  
Used to impact symptomatic spondylophytes. Placed beneath and clear of neurostructures. Slip resistant, textured impaction surface is held perpendicular to surrounding bone planes and impacted with a mallet.
- |           |                   |         |
|-----------|-------------------|---------|
| Length    | 8 $\frac{3}{4}$ " | (220mm) |
| Tip depth | $\frac{1}{2}$ "   | (5mm)   |
| Tip width | $\frac{7}{32}$ "  | (13mm)  |
-



# SPONDYLOPHYTE IMPACTION

- 46-3012** 90° DURAL Suction Retractor, Black (Micro)  
Allows adequate retraction, elevation and protection of affected nerve root. Designed to preserve wound access and visualization. Variable suction control hole in handle. Blackened to reduce glare.
- |                  |                                  |         |
|------------------|----------------------------------|---------|
| Working distance | 4 <sup>3</sup> / <sub>4</sub> "  | (120mm) |
| Handle length    | 4 <sup>5</sup> / <sub>8</sub> "  | (117mm) |
| Tip width        | 9 <sup>3</sup> / <sub>32</sub> " | (8mm)   |
| Tip depth        | 1 <sup>1</sup> / <sub>4</sub> "  | (6mm)   |



- 46-3008** CENTRAL Canal Impactor 30°  
Used to impact symptomatic spondylophytes, placed beneath and clear of neurostructures, slip resistant, textured impaction surface is held perpendicular to surrounding bone planes and impacted with a mallet. Tip oriented 30° from vertical.
- |            |                                  |        |
|------------|----------------------------------|--------|
| Length     | 8 <sup>3</sup> / <sub>4</sub> "  | (22cm) |
| Tip length | 1 <sup>1</sup> / <sub>2</sub> "  | (13mm) |
| Tip width  | 7 <sup>1</sup> / <sub>32</sub> " | (7mm)  |



SPINE

# SPONDYLOPHYTE IMPACTION



- 46-3020** CODMAN Micro Impactor Set  
The set includes:
- |  |          |              |
|--|----------|--------------|
| Length   | 7"       | (18cm)       |
| <b>46-3021</b> Micro Offset Central Canal Impactor | Tip size | .17" (4.3mm) |
| <b>46-3022</b> Micro Lateral Gutter Impactor       | Tip size | .37" (9.4mm) |



- 46-3021** MICRO Offset Central Canal Impactor  
Designed for spondylophyte impaction within a limited exposure; and, within neuroforamina. Slip resistant textured impaction surface is held perpendicular to surrounding bone planes and impacted with mallet.
- |            |       |         |
|------------|-------|---------|
| Length     | 7"    | (178mm) |
| Tip length | 1/4"  | (6mm)   |
| Tip width  | 5/32" | (4mm)   |



- 46-3022** Micro Lateral Gutter Impactor  
Designed for Spondylophyte impaction within a limited exposure and within neuroforamina. Slip resistant textured impaction surface is held perpendicular to surrounding bone planes and impacted with mallet.
- |           |       |         |
|-----------|-------|---------|
| Length    | 7"    | (178mm) |
| Tip depth | 5/16" | (8mm)   |
| Tip width | 5/32" | (4mm)   |

# TRANSORAL INSTRUMENTS CROCKARD

- 50-1670** CROCKARD\* Transoral Instrument Set  
Coordinated set of instruments used to approach a large area of pathology from the sphenoid to the C<sub>3</sub> vertebra via the transoral technique.  
Set Includes:  
Quantity
- 50-1651** 1 ea. CROCKARD Transoral Retractor Body  
**50-1652** 1 ea. CROCKARD Large Tongue Retractor Blade  
**50-1653** 1 ea. CROCKARD Small Tongue Retractor Blade  
**50-1654** 2 ea. CROCKARD 90° Retractor Blade  
**50-1655** 2 ea. CROCKARD Curved Retractor Blade  
**50-1656** 2 ea. CROCKARD Retractor Blade Connector  
**50-1657** 1 ea. CROCKARD Suction Tube Holder, Short  
**50-1658** 1 ea. CROCKARD Suction Tube Holder, Long  
**50-1659** 1 ea. CROCKARD Hard Palate Retractor  
**50-1660** 1 ea. CROCKARD Pharyngeal Retractor, Small  
**50-1661** 1 ea. CROCKARD Pharyngeal Retractor, Large  
**50-1662** 1 ea. CROCKARD Odontoid Peg Grasping Forceps  
**50-1663** 1 ea. CROCKARD Ligament Grasping Forceps  
**50-1664** CROCKARD Sterilizing/Storage Case



- 50-1651** CROCKARD Transoral Retractor Body  
Length 6" (152mm)  
Width 2¾" (70mm)



# TRANSORAL INSTRUMENTS CROCKARD

---



---

	CROCKARD Tongue Retractor Blade	
	Length	6" (152mm)
<b>50-1652</b>	Large	
	Blade length	3.5" (91mm)
<b>50-1653</b>	Small	
	Blade length	3" (76mm)

---



---

<b>50-1654</b>	CROCKARD 90° Retractor Blade	
	Total length	5" (127mm)
	Blade length	1.5" (38mm)
	Blade width	.8" (20mm)

---



---

<b>50-1655</b>	CROCKARD Curved Retractor Blade	
	Total length	5" (127mm)
	Blade length	1½" (38mm)
	Tip width	½" (12mm)

---



---

<b>50-1656</b>	CROCKARD Retractor Blade Connector	
	Total Length	1¼" (31mm)
	Diameter	.28" (7mm)

---

# TRANSORAL INSTRUMENTS CROCKARD

---

	CROCKARD Suction Tube Holder		
	Diameter	.28	(7mm)
<b>50-1657</b>	Short		
	Length	1½"	(38mm)
<b>50-1658</b>	Long		
	Length	2"	(50mm)

---



50-1657



50-1658

---

<b>50-1659</b>	CROCKARD Hard Palate Retractor		
	Total length	4¼"	(108mm)
	Tip width	1"	(25mm)

---



---

	CROCKARD Pharyngeal Retractor		
<b>50-1660</b>	Small		
	Length	7"	(177mm)
<b>50-1661</b>	Large		
	Length	7½"	(190mm)

---



# TRANSORAL INSTRUMENTS CROCKARD

---



---

**50-1662** CROCKARD Odontoid Peg Grasping Forceps  
Length 9" (228mm)

---



---

**50-1663** CROCKARD Ligament Grasping Forceps  
Length 10" (254mm)

---



---

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

---

# TRANSORAL INSTRUMENTS CROCKARD

**50-1665** CROCKARD Bayonet Micro-Dissector  
10" (250mm) for transoral dissection, footplate  
designed to dissect tissue and reduce  
opportunity for dural penetration. Especially  
useful in definition of apical and alar ligaments  
and general dissection.  
Length 10" (250mm)



**50-1668** CROCKARD Mid-Facial Osteotomy Retractor  
Plate  
Uniquely and exclusively fashioned to function  
with CROCKARD transoral instrument set (50-  
1670); especially tongue retractor blades (50-  
1692 and 15-1653) and retractor body (50-  
1651). For surgery of middle and upper clivus  
and transpalatal incisions. Retracts soft and  
hard palate from skull as tongue blade retracts  
hard palate downward.  
Length 2½" (63mm)  
Width 2" (50mm)  
Width of opening 1¾" (44mm)



# WIRE CUTTERS

---



---

**56-2507** KIRSCHNER Wire Cutter, chrome plated.  
Length 6¼" (159mm)

---



---

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

---



## CODMAN SOF'WIRE® Cable System

Designed for internal, bony fixation including sublaminar interspinous fixation, non-displaced fractures, maxillo facial surgery, sternotomy closure. Consists of SOF'WIRE Cables and a complete set of instruments for application.

### SOF'WIRE Sterile Products:

#### Stainless Steel

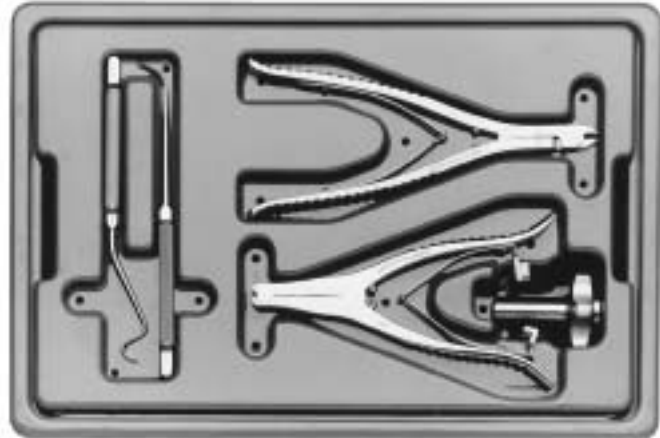
- 46-4038** SOF'WIRE Stainless Steel (10 each of 46-4018)
- 46-4019** SOF'WIRE Stainless Steel Single Cable with Leader, 1 Cinch and 1 Tightener
- 46-4021** SOF'WIRE Stainless Steel Double Cable with Central Leader, 2 Cinches and 2 Tighteners
- 46-4024** SOF'WIRE Stainless Steel Cinch Seat, 10 each

#### Titanium

- 46-4040** SOF'WIRE Titanium Single Cable with Leader, 1 Cinch and 1 Tightener
- 46-4043** SOF'WIRE Titanium (10 each of 46-4040)
- 46-4042** SOF'WIRE Titanium Double Cable with Central Leader, 2 Cinches and 2 Tighteners
- 46-4025** SOF'WIRE Titanium Cinch Seat, 10 each

#### 46-4010 CODMAN SOF'WIRE Instrument Set includes:

- 46-4012** SOF'WIRE Torque Driver
- 46-4013** SOF'WIRE Cable Cutter
- 46-4014** SOF'WIRE Cinch Pliers
- 46-4100** CODMAN SOF'WIRE L-Curve Guide
- 46-4101** CODMAN SOF'WIRE S-Curve Guide
- 46-4011** SOF'WIRE Cable System Sterilization Tray



# WIRE, SOF'WIRE

---



---

## SOF'WIRE® Sterile Products:

- |                |   |
|----------------|---|
|                | Stainless Steel   |
| <b>46-4019</b> | SOF'WIRE Stainless Steel Single Cable with Leader, 1 Cinch and 1 Tightener            |
| <b>46-4021</b> | SOF'WIRE Stainless Steel Double Cable with Central Leader, 2 Cinches and 2 Tighteners |
| <b>46-4024</b> | SOF'WIRE Stainless Steel Cinch Seat, 10 each  |
|                | Titanium  |
| <b>46-4040</b> | SOF'WIRE Titanium Single Cable with Leader, 1 Cinch and 1 Tightener                   |
| <b>46-4043</b> | SOF'WIRE Titanium (10 each of 46-4040)  |
| <b>46-4042</b> | SOF'WIRE Titanium Double Cable with Central Leader, 2 Cinches and 2 Tighteners        |
| <b>46-4025</b> | SOF'WIRE Titanium Cinch Seat, 10 each   |
-

# WIRE, SOF'WIRE

**46-4012** SOF'WIRE Torque Driver  
Designed to be used with the disposable  
CODMAN SOF'WIRE Tighteners (46-4018 and  
46-3038) if additional torque is required.



**46-4013** SOF'WIRE Cable Cutter  
Used to cut CODMAN SOF'WIRE Cable.



**46-4014** SOF'WIRE Cinch Pliers  
Designed to crimp the cinch/cable construct  
when using CODMAN SOF'WIRE Cable.



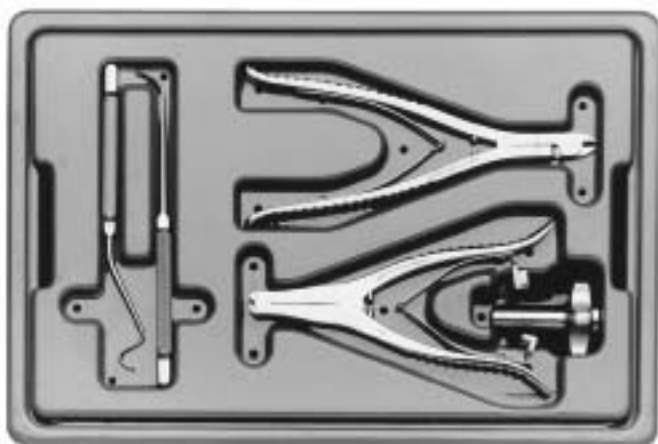
SPINE

## WIRE, SOF'WIRE

---



- 
- 46-4100** CODMAN SOF'WIRE Guides.  
20cm (8") instrument designed to assist the cervical spine surgeon in protective wire passage of C2–C7 vertebrae. Atraumatic end designed to dissect impeding ligamentous tissue. Suture hole for wire fixation.
- 46-4101** 20cm (8") instrument designed to assist the cervical spine surgeon in protective wire passage of C1 vertebrae. Uniquely shaped for C1 wire passage. Atraumatic end designed to dissect impeding ligamentous tissue. Suture hole for wire fixation.
- 



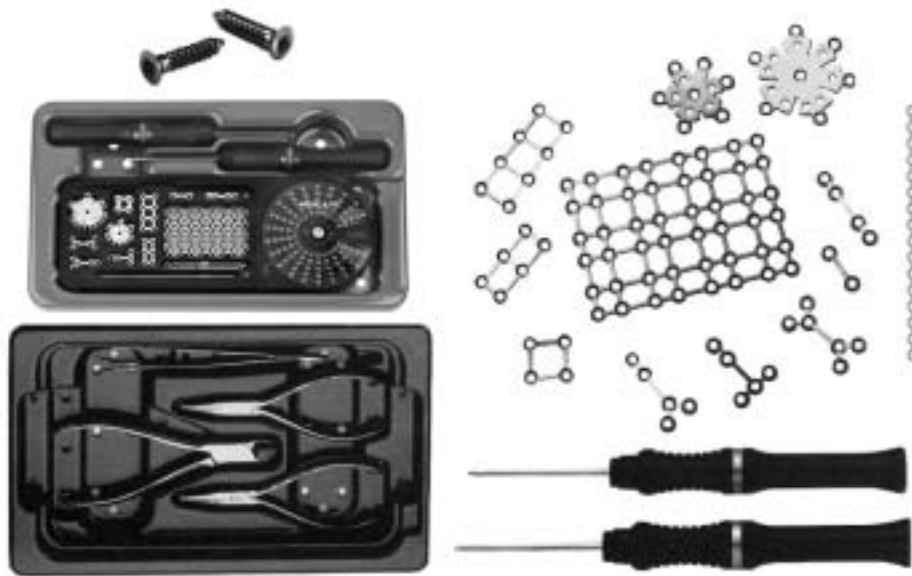
- 
- 46-4011** CODMAN SOF'WIRE Cable Instrument Tray  
For storage/sterilization.  
(Instruments not included.)
-

# ANEUROPLASTIC

43-1060 ANEUROPLASTIC\* Kit, two complete sets consists of two bags sterile powder (net weight 30 grams each), two ampules sterile liquid (net contents 17 milliliters each), and two sterile matrix bags.



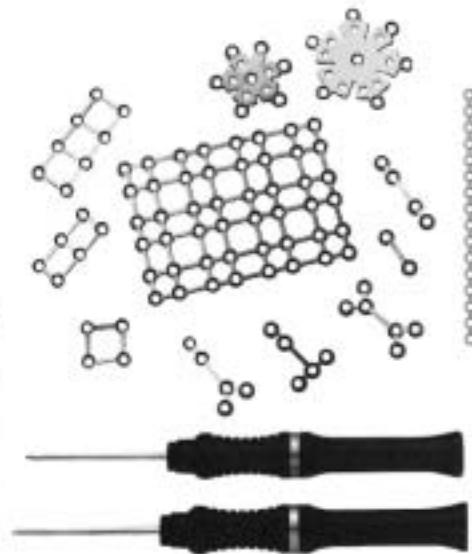
# BIOPLATE



## 1.5mm BIOPLATE Neurosurgery Fixation System. Designed for neurosurgeons.

	Code #	Description
<b>Plates</b>		
1 pkg. of 5 ea.	<b>81-2000</b>	Straight, 2 Hole, Bar, 11mm
1 pkg. of 1 ea.	<b>81-2001</b>	Straight, 4 Hole, Bar, 19mm
1 pkg. of 1 ea.	<b>81-2002</b>	Y Plate, 5 Hole, Bar, 18mm
1 pkg. of 1 ea.	<b>81-2003</b>	X Plate, 6 Hole, Bar, 17mm
1 pkg. of 1 ea.	<b>81-2004</b>	T Plate, 5 Hole, Bar, 15mm
1 pkg. of 1 ea.	<b>81-2005</b>	Burr Cover, 6 Hole, 12mm, Flat-Rigid
1 pkg. of 1 ea.	<b>81-2006</b>	Burr Cover, 6 Hole, 18mm, Flat-Rigid
1 pkg. of 1 ea.	<b>81-2053</b>	Contoured Flexible Burr Hole Cover, 12mm
1 pkg. of 1 ea.	<b>81-2054</b>	Contoured Flexible Burr Hole Cover, 18mm
1 pkg. of 1 ea.	<b>81-2055</b>	Contoured Rigid Burr Hole Cover, 12mm
1 pkg. of 1 ea.	<b>81-2056</b>	Contoured Rigid Burr Hole Cover, 18mm
1 pkg. of 1 ea.	<b>81-2007</b>	Box Car, 4 Hole, 10 x 10mm
1 pkg. of 1 ea.	<b>81-2008</b>	Box Car, 6 Hole, 8 x 17mm
1 pkg. of 1 ea.	<b>81-2009</b>	Box Car, 8 Hole, 10 x 24mm
1 pkg. of 1 ea.	<b>81-2010</b>	Lattice, 48 Hole, 32 x 44mm
1 pkg. of 1 ea.	<b>81-3018</b>	Straight, 2 Hole, Bar, 11mm
1 pkg. of 1 ea.	<b>81-3059</b>	8 Hole Orbital Plate
1 pkg. of 1 ea.	<b>81-3060</b>	16 Hole Straight Plate
1 pkg. of 1 ea.	<b>81-3180</b>	Shunt Burr Hole Cover, 1.5mm
<b>Self Drilling Screws</b>		
1 pkg. of 1 ea.	<b>81-2057</b>	Self Drilling Screw, 1.5mm x 3mm
1 pkg. of 1 ea.	<b>81-2058</b>	Self Drilling Screw, 1.5mm x 4mm
1 pkg. of 1 ea.	<b>81-2059</b>	Self Drilling Screw, 1.5mm x 5mm
1 pkg. of 5 ea.	<b>81-3087</b>	Self Drilling Screw, 1.5mm x 3mm
1 pkg. of 5 ea.	<b>81-3088</b>	Self Drilling Screw, 1.5mm x 4mm
1 pkg. of 5 ea.	<b>81-3089</b>	Self Drilling Screw, 1.5mm x 5mm
1 pkg. of 1 ea.	<b>81-3095</b>	1.5mm Self-Drilling Screw Insert
<b>Standard Screws</b>		
1 pkg. of 5 ea.	<b>81-2011</b>	1.5mm screw-3mm
1 pkg. of 5 ea.	<b>81-2012</b>	1.5mm screw-4mm
1 pkg. of 5 ea.	<b>81-2013</b>	1.5mm screw-5mm
1 pkg. of 5 ea.	<b>81-2014</b>	1.5mm screw-6mm
1 pkg. of 5 ea.	<b>81-2015</b>	1.5mm screw-8mm
1 pkg. of 5 ea.	<b>81-2016</b>	1.5mm screw-10mm
1 pkg. of 5 ea.	<b>81-2017</b>	1.8mm screw-Emergency
1 pkg. of 1 ea.	<b>81-3011</b>	1.5mm screw-3mm
1 pkg. of 1 ea.	<b>81-3012</b>	1.5mm screw-4mm
1 pkg. of 1 ea.	<b>81-3013</b>	1.5mm screw-5mm
1 pkg. of 1 ea.	<b>81-3014</b>	1.5mm screw-6mm
1 pkg. of 1 ea.	<b>81-3015</b>	1.5mm screw-8mm
1 pkg. of 1 ea.	<b>81-3016</b>	1.5mm screw-10mm
1 pkg. of 1 ea.	<b>81-3017</b>	1.8mm screw-Emergency

	Code #	Description
<b>Instruments</b>		
1 ea.	<b>81-2021</b>	1.5mm Screwdriver with Blade, Std.
1 ea.	<b>81-2027</b>	1.5mm Screwdriver Blade, Std.
1 ea.	<b>81-3100</b>	1.5mm Screwdriver with Blade, Large
1 ea.	<b>81-3101</b>	1.5mm Screwdriver Blade, Large
1 ea.	<b>81-2022</b>	Plate Bender
1 ea.	<b>81-2023</b>	Plate Cutter-Med.
1 ea.	<b>81-2024</b>	Forceps Angled
1 ea.	<b>81-3105</b>	Plate and Screw Container
1 ea.	<b>81-3119</b>	Sterilizing Container-Neuro
<b>Drill Bits</b>		
1 ea.	<b>81-2018</b>	Drill Bit, 1.0mm, 4mm, standard low speed drill
1 ea.	<b>81-2019</b>	Drill Bit, 1.0mm, 6mm, standard low speed drill
1 ea.	<b>81-2020</b>	Drill Bit, 1.0mm, 10mm, standard low speed drill
1 ea.	<b>81-3067</b>	Drill Bit, 1.0mm, 4mm handpieces
1 ea.	<b>81-3068</b>	Drill Bit, 1.0mm, 6mm handpieces
1 ea.	<b>81-3069</b>	Drill Bit, 1.0mm, 10mm handpieces
1 ea.	<b>81-3061</b>	Drill Bit, 1.0mm, 4mm craniotomes
1 ea.	<b>81-3062</b>	Drill Bit, 1.0mm, 6mm craniotomes
1 ea.	<b>81-3063</b>	Drill Bit, 1.0mm, 10mm craniotomes
1 ea.	<b>81-3073</b>	Drill Bit, 1.0mm, 4mm long hand drill
1 ea.	<b>81-3074</b>	Drill Bit, 1.0mm, 6mm long hand drill
1 ea.	<b>81-3077</b>	Drill Bit, 1.0mm, 4mm Midas Rex Classic
1 ea.	<b>81-3078</b>	Drill Bit, 1.0mm, 6mm Midas Rex Classic
1 ea.	<b>81-3079</b>	Drill Bit, 1.0mm, 10mm Midas Rex Classic
1 ea.	<b>81-3083</b>	Drill Bit, 1.0mm, 4mm Midas Rex III
1 ea.	<b>81-3084</b>	Drill Bit, 1.0mm, 6mm Midas Rex III
<b>BIO-100 Set</b>		
1 ea.	<b>81-2027</b>	BIO-100 Screw Driver Blade, STD
1 ea.	<b>81-3175</b>	BIO-100 1.5mm Tray Insert
5 ea.	<b>81-3164</b>	BIO-100 Screws, 1.5mm x 4.5mm
1 ea.	<b>81-3165</b>	BIO-100 Screws, 1.5mm x 4.5mm
5 ea.	<b>81-3135</b>	BIO-100 Two Hole Plate
1 ea.	<b>81-3131</b>	BIO-100 Two Hole Plate



**1.9mm BIOPLATE Neurosurgery Fixation System.**  
Designed for neurosurgeons.

	Code #	Description
<b>Plates</b>		
1 pkg. of 5 ea.	<b>81-3027</b>	Straight Plate, 2 hole, 12mm
1 pkg. of 1 ea.	<b>81-3028</b>	Straight Plate, 4 hole, 20mm
1 pkg. of 1 ea.	<b>81-3029</b>	Y Plate, 5 Hole, 19mm
1 pkg. of 1 ea.	<b>81-3030</b>	X Plate, 6 Hole, 18mm
1 pkg. of 1 ea.	<b>81-3031</b>	T Plate, 5 Hole, 16mm
1 pkg. of 1 ea.	<b>81-3032</b>	Burr Hole Cover, 6 Hole, 12mm, Flat - Rigid
1 pkg. of 1 ea.	<b>81-3033</b>	Burr Hole Cover, 6 Hole, 18mm, Flat - Rigid
1 pkg. of 1 ea.	<b>81-2046</b>	Contoured Flexible Burr Hole Cover, 12mm
1 pkg. of 1 ea.	<b>81-2047</b>	Contoured Flexible Burr Hole Cover, 18mm
1 pkg. of 1 ea.	<b>81-2048</b>	Contoured Rigid Burr Hole Cover, 12mm
1 pkg. of 1 ea.	<b>81-2049</b>	Contoured Rigid Burr Hole Cover, 18mm
1 pkg. of 1 ea.	<b>81-3034</b>	Boxcar Plate, 4 Hole, 11 x 11mm
1 pkg. of 1 ea.	<b>81-3035</b>	Boxcar Plate, 6 Hole, 9 x 18mm
1 pkg. of 1 ea.	<b>81-3036</b>	Boxcar Plate, 8 Hole, 11 x 25mm
1 pkg. of 1 ea.	<b>81-3048</b>	Straight Plate, 2 Hole, 12mm
1 pkg. of 1 ea.	<b>81-3161</b>	Straight Plate, 16 Hole, 1.9mm
1 pkg. of 1 ea.	<b>81-3181</b>	Shunt Burr Hole Cover, 1.9mm
<b>Standard Drilling Screws</b>		
1 pkg. of 5 ea.	<b>81-3037</b>	1.9mm screw-3mm long
1 pkg. of 5 ea.	<b>81-3038</b>	1.9mm screw-4mm long
1 pkg. of 5 ea.	<b>81-3039</b>	1.9mm screw-5mm long
1 pkg. of 5 ea.	<b>81-3040</b>	1.9mm screw-6mm long
1 pkg. of 5 ea.	<b>81-3041</b>	1.9mm screw-8mm long
1 pkg. of 5 ea.	<b>81-3042</b>	1.9mm screw-10mm long
1 pkg. of 5 ea.	<b>81-3043</b>	2.3mm screw-5mm long Emergency
1 pkg. of 1 ea.	<b>81-3049</b>	1.9mm screw-3mm long
1 pkg. of 1 ea.	<b>81-3050</b>	1.9mm screw-4mm long
1 pkg. of 1 ea.	<b>81-3051</b>	1.9mm screw-5mm long
1 pkg. of 1 ea.	<b>81-3052</b>	1.9mm screw-6mm long
1 pkg. of 1 ea.	<b>81-3053</b>	1.9mm screw-8mm long
1 pkg. of 1 ea.	<b>81-3054</b>	1.9mm screw-10mm long
1 pkg. of 1 ea.	<b>81-3055</b>	2.3mm screw- 5mm long Emergency
<b>Self Drilling Screws</b>		
1 pkg. of 1 ea.	<b>81-2050</b>	Self Drilling Screw, 1.9mm x 3mm
1 pkg. of 1 ea.	<b>81-2051</b>	Self Drilling Screw, 1.9mm x 4mm
1 pkg. of 1 ea.	<b>81-2052</b>	Self Drilling Screw, 1.9mm x 5mm
1 pkg. of 5 ea.	<b>81-3091</b>	Self Drilling Screw, 1.9mm x 3mm
1 pkg. of 5 ea.	<b>81-3092</b>	Self Drilling Screw, 1.9mm x 4mm
1 pkg. of 5 ea.	<b>81-3093</b>	Self Drilling Screw, 1.9mm x 5mm
1 pkg. of 1 ea.	<b>81-3096</b>	1.9mm Self-Drilling Screw Insert

	Code #	Description
<b>Instruments</b>		
1 ea.	<b>81-3046</b>	1.9mm Screwdriver with Blade, Std.
1 ea.	<b>81-2034</b>	1.9mm Screwdriver Blade, Std.
1 ea.	<b>81-3102</b>	1.9mm Screwdriver with Blade, Large
1 ea.	<b>81-3103</b>	1.9mm Screwdriver Blade, Large
1 ea.	<b>81-2022</b>	Plate Bender
1 ea.	<b>81-2023</b>	Plate Cutter-Medium
1 ea.	<b>81-2024</b>	Forceps Angled
1 ea.	<b>81-3109</b>	Plate and Screw Container
1 ea.	<b>81-3119</b>	Sterilizing Container
<b>Drill Bits</b>		
1 ea.	<b>81-2033</b>	Drill bit 1.5mm, 4mm, standard low speed drill
1 ea.	<b>81-3044</b>	Drill bit 1.5mm, 6mm, standard low speed drill
1 ea.	<b>81-3045</b>	Drill bit 1.5mm, 10mm, standard low speed drill
1 ea.	<b>81-3070</b>	Drill bit 4.5mm, long handpieces
1 ea.	<b>81-3071</b>	Drill bit 6mm long handpieces
1 ea.	<b>81-3072</b>	Drill bit 10mm long handpieces
1 ea.	<b>81-3064</b>	Drill bit 4.5mm long craniotomes
1 ea.	<b>81-3065</b>	Drill bit 6mm long craniotomes
1 ea.	<b>81-3066</b>	Drill bit 10mm long craniotomes
1 ea.	<b>81-3075</b>	Drill bit 4.5mm long hand drill
1 ea.	<b>81-3076</b>	Drill bit 6mm long hand drill
1 ea.	<b>81-3080</b>	Drill bit 4.5mm long Midas Rex Classic
1 ea.	<b>81-3081</b>	Drill bit 6mm long Midas Rex Classic
1 ea.	<b>81-3082</b>	Drill bit 10mm long Midas Rex Classic
1 ea.	<b>81-3085</b>	Drill bit 4.5mm long Midas Rex III
1 ea.	<b>81-3086</b>	Drill bit 6mm long Midas Rex III
<b>BIO-100 Set</b>		
1 ea.	<b>81-2033</b>	BIO-100 Drill Bit 1.5mm x 4mm
1 ea.	<b>81-2034</b>	BIO-100 Screw Driver Blade 2mm
1 ea.	<b>81-2035</b>	BIO-100 Tray Insert
1 ea.	<b>81-3019</b>	BIO-100 Screw 1.9mm x 4.5mm
5 ea.	<b>81-2036</b>	BIO-100 Screws, 2mm x 4mm
1 ea.	<b>81-3020</b>	BIO-100 Two Hole Plate
5 ea.	<b>81-2037</b>	BIO-100 Two Hole Plate

**NEUROSURGERY  
MICROSURGERY**

# CRANIOPLASTIC

---



**43-1050** CRANIOPLASTIC\* Kit, two complete sets, consists of two bags sterile powder (net weight 30 grams each), two vials sterile liquid (net contents 17 milliliters each) and two sterile matrix bags.

---



**43-1006** SPENCE Cranioplastic Roller

---



# CRANIOPLASTIC TITANIUM MESH

**43-1007** CARBORUNDUM Grinding Wheel, Jacobs fitting.



**43-1022** TITANIUM Mesh  
Sterile  
Titanium Mesh is indicated for use with methyl methacrylate formulated for cranioplasty.  
Size 6"x 6" (15cm x 15cm)  
Wire diameter .010" (31g)  
Mesh per inch 24 x 24



# ANEURYSM CLIPS McFADDEN VARI-ANGLE

**20-1276** McFADDEN VARI-ANGLE Lightweight Aneurysm Clip Applier, Bayonet  
Used with McFADDEN VARI-ANGLE Aneurysm Clips (20-1250 through 20-1413).  
Hemispherical contact made with MRI compatible MP35N alloy.  
Length 9<sup>3</sup>/<sub>8</sub>" (238mm)  
Working distance 4<sup>1</sup>/<sub>2</sub>" (114mm)  
Jaw 10° tapered up  
Weight 2 oz.



NEUROSURGERY  
MICROSURGERY

# ANEURYSM CLIPS

## McFADDEN VARI-ANGLE



McFADDEN VARI-ANGLE Aneurysm Clip Tray #1 and #2 (80-1828 and 80-1829) are designed for inventory, storage, and sterilization of all 77 VARI-ANGLE McFADDEN Aneurysm Clips.

	Size
<b>80-1828</b> #1	McFADDEN VARI-ANGLE Aneurysm Clip Tray
<b>80-1829</b> #2	McFADDEN VARI-ANGLE Aneurysm Clip Tray

Each Tray will hold the following clips:

CLIP TRAY #1		CLIP TRAY #1 (Continued)		CLIP TRAY #2 (Continued)	
	Blade Length		Blade Length		Blade Length
<b>Straight</b>		<b>Slightly Curved</b>		<b>Fenestrated 45°, 4mm Opening</b>	
20-1250	5mm	20-1261	8mm	20-1370	6mm
20-1251	7mm	20-1262	10mm	20-1371	9mm
20-1252	9mm	20-1264	12mm	20-1372	12mm
20-1253	12mm	20-1265	14mm	20-1373	16mm
20-1263	15mm	20-1306	16mm	20-1374	20mm
20-1300	20mm	20-1307	20mm	20-1375	24mm
20-1301	25mm				
		<b>CLIP TRAY #2</b>		<b>Fenestrated 45°, 5mm Opening</b>	
<b>Forward Angle</b>		<b>Fenestrated 90°, 4mm Opening</b>		20-1380	6mm
20-1259	7mm	20-1390	6mm	20-1381	9mm
20-1260	9mm	20-1391	9mm	20-1382	12mm
20-1304	12mm	20-1392	12mm	20-1383	16mm
20-1305	15mm	<b>Fenestrated 90°, 5mm Opening</b>		20-1384	20mm
<b>Bayonet</b>		20-1395	6mm	20-1385	24mm
20-1269	7mm	20-1396	9mm	<b>Fenestrated Bayonet, 5mm Opening</b>	
20-1270	9mm	20-1397	12mm	20-1410	6mm
20-1311	12mm	<b>Fenestrated 90°, 6mm Opening</b>		20-1411	9mm
20-1312	15mm	20-1398	6mm	20-1412	12mm
<b>Curved</b>		20-1399	9mm	20-1413	15mm
20-1254	6mm	20-1400	12mm	<b>Right Angle</b>	
20-1255	8mm	<b>Fenestrated, Straight, 4mm Opening</b>		20-1256	5mm
20-1266	10mm	20-1350	6mm	20-1271	7.5mm
20-1267	12mm	20-1351	9mm	20-1268	10mm
<b>Sideward Angle</b>		20-1352	12mm	20-1271	15mm
20-1257	7mm	20-1353	16mm	<b>Forward Curve</b>	
20-1258	9mm	20-1354	20mm	20-1308	8mm
20-1302	12mm	20-1355	24mm	20-1309	12mm
20-1303	15mm	<b>Fenestrated, Straight, 5mm Opening</b>		20-1310	16mm
<b>Bayonet Forward Curved</b>		20-1360	6mm		
20-1280	7mm R	20-1361	9mm		
20-1281	7mm L	20-1362	12mm		
20-1282	9mm R	20-1363	16mm		
20-1283	9mm L	20-1364	20mm		
		20-1365	24mm		

# ANEURYSM CLIPS

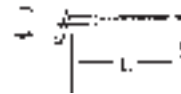
## McFADDEN VARI-ANGLE

CROCKARD Orbiting Appliers designed to apply McFADDEN VARI-ANGLE ANEURYSM Clips (20-1250 through 20-1431) during intracranial or Transoral Transclival aneurysm surgery. Shaft can be rotated 360°. McFADDEN VARI-ANGLE Clips can be angled over 290° range. Shaft Length



20-5220	5½"	(14cm)
20-5221	10"	(25.5cm)

McFADDEN VARI-ANGLE Aneurysm Clips, single piece construction, non-magnetic, MRI compatible, MP35N alloy, double coiled spring, strong closing pressure, 180 rotation facilitates placement of clip. Rounded jaws, well-defined serrations. Use 20-1276 McFADDEN VARI-ANGLE Clip Applying Forceps only with the McFADDEN VARI-ANGLE Clips.



### Straight Clips

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
20-1250	1.5mm	5mm	5mm
20-1251	1.5mm	7mm	6mm
20-1252	1.5mm	9mm	7mm
20-1253	1.5mm	12mm	8mm
20-1263	1.5mm	15mm	9mm
20-1300	1.5mm	20mm	10mm
20-1301	1.5mm	25mm	11mm

McFADDEN VARI-ANGLE Aneurysm Clips, Slightly Curved Clips



	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
20-1261	1.5mm	8mm	7mm
20-1262	1.5mm	10mm	7mm
20-1264	1.5mm	12mm	7mm
20-1265	1.5mm	14mm	7mm
20-1306	1.5mm	16mm	9mm
20-1307	1.5mm	20mm	10mm

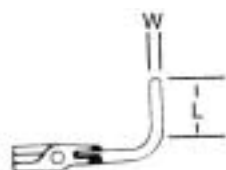
# ANEURYSM CLIPS

## McFADDEN VARI-ANGLE



McFADDEN VARI-ANGLE Aneurysm Clips,  
Curved

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
<b>20-1254</b>	1.5mm	6mm	6mm
<b>20-1255</b>	1.5mm	8mm	6mm
<b>20-1266</b>	1.5mm	10mm	7mm
<b>20-1267</b>	1.5mm	12mm	8mm



McFADDEN VARI-ANGLE Aneurysm Clips,  
Right Angle

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
<b>20-1256</b>	1.5mm	5mm	6mm
<b>20-1271</b>	1.5mm	7.5mm	6mm
<b>20-1268</b>	1.5mm	10mm	6mm
<b>20-1272</b>	1.5mm	15mm	6mm



McFADDEN VARI-ANGLE Aneurysm Clips,  
Forward Curve

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
<b>20-1308</b>	1.5mm	8mm	5mm
<b>20-1309</b>	1.5mm	12mm	6mm
<b>20-1310</b>	1.5mm	16mm	6mm



McFADDEN VARI-ANGLE Aneurysm Clips,  
30° Forward Angle

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
<b>20-1259</b>	1.5mm	7mm	6mm
<b>20-1260</b>	1.5mm	9mm	6mm
<b>20-1304</b>	1.5mm	12mm	7mm
<b>20-1305</b>	1.5mm	15mm	7mm

# ANEURYSM CLIPS

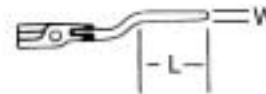
## McFADDEN VARI-ANGLE

### McFADDEN VARI-ANGLE Aneurysm Clips, Sideward Angle



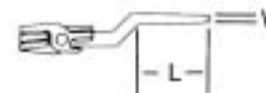
	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
<b>20-1257</b>	1.5mm	7mm	6mm
<b>20-1258</b>	1.5mm	9mm	7mm
<b>20-1302</b>	1.5mm	12mm	8mm
<b>20-1303</b>	1.5mm	15mm	9mm

### McFADDEN VARI-ANGLE Aneurysm Clips, Bayonet Straight



	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
<b>20-1269</b>	1.5mm	7mm	7mm
<b>20-1270</b>	1.5mm	9mm	7mm
<b>20-1311</b>	1.5mm	12mm	8mm
<b>20-1312</b>	1.5mm	15mm	8mm

### McFADDEN VARI-ANGLE Aneurysm Clips, Bayonet 30° Curved Forward Angle



	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
<b>20-1280</b>	1.5mm	7 Bay Rt.	5mm
<b>20-1281</b>	1.5mm	7 Bay Lt.	5mm
<b>20-1282</b>	1.5mm	9 Bay Rt.	5mm
<b>20-1283</b>	1.5mm	9 Bay Lt.	5mm

# ANEURYSM CLIPS

## McFADDEN VARI-ANGLE



McFADDEN VARI-ANGLE Aneurysm Clips,  
Fenestrated Straight 4mm Opening

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
<b>20-1350</b>	1.5mm	6mm	5mm
<b>20-1351</b>	1.5mm	9mm	8mm
<b>20-1352</b>	1.5mm	12mm	8mm
<b>20-1353</b>	1.5mm	16mm	9mm
<b>20-1354</b>	1.5mm	20mm	9mm
<b>20-1355</b>	1.5mm	24mm	11mm



McFADDEN VARI-ANGLE Aneurysm Clips,  
Fenestrated Straight 5mm Opening

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
<b>20-1360</b>	1.5mm	6mm	5mm
<b>20-1361</b>	1.5mm	9mm	8mm
<b>20-1362</b>	1.5mm	12mm	8mm
<b>20-1363</b>	1.5mm	16mm	9mm
<b>20-1364</b>	1.5mm	20mm	9mm
<b>20-1365</b>	1.5mm	24mm	11mm



McFADDEN VARI-ANGLE Aneurysm Clips,  
Fenestrated 45° Angle 4mm Opening

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
<b>20-1370</b>	1.5mm	6mm	5mm
<b>20-1371</b>	1.5mm	9mm	8mm
<b>20-1372</b>	1.5mm	12mm	8mm
<b>20-1373</b>	1.5mm	16mm	9mm
<b>20-1374</b>	1.5mm	20mm	9mm
<b>20-1375</b>	1.5mm	24mm	11mm

# ANEURYSM CLIPS

## McFADDEN VARI-ANGLE

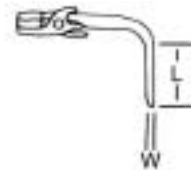
McFADDEN VARI-ANGLE Aneurysm Clips,  
Fenestrated 45° Angle 5mm Opening

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
<b>20-1380</b>	1.5mm	6mm	5mm
<b>20-1381</b>	1.5mm	9mm	8mm
<b>20-1382</b>	1.5mm	12mm	8mm
<b>20-1383</b>	1.5mm	16mm	9mm
<b>20-1384</b>	1.5mm	20mm	9mm
<b>20-1385</b>	1.5mm	24mm	11mm



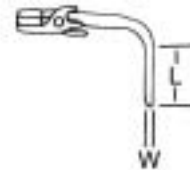
McFADDEN VARI-ANGLE Aneurysm Clips,  
Fenestrated 90° Angle 4mm Opening

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
<b>20-1390</b>	1.5mm	6mm	5mm
<b>20-1391</b>	1.5mm	9mm	5mm
<b>20-1392</b>	1.5mm	12mm	5mm



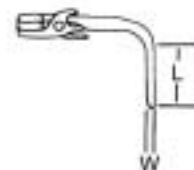
McFADDEN VARI-ANGLE Aneurysm Clips,  
Fenestrated 90° Angle 5mm Opening

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
<b>20-1395</b>	1.5mm	6mm	5mm
<b>20-1396</b>	1.5mm	9mm	5mm
<b>20-1397</b>	1.5mm	12mm	5mm



McFADDEN VARI-ANGLE Aneurysm Clips,  
Fenestrated 90° Angle 6mm Opening

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
<b>20-1398</b>	1.5mm	6mm	6mm
<b>20-1399</b>	1.5mm	9mm	6mm
<b>20-1400</b>	1.5mm	12mm	6mm



# ANEURYSM CLIPS

## McFADDEN VARI-ANGLE



### McFADDEN VARI-ANGLE Aneurysm Clips, Fenestrated Bayonet 5mm Opening

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)
<b>20-1410</b>	1.5mm	6mm	5mm
<b>20-1411</b>	1.5mm	9mm	8mm
<b>20-1412</b>	1.5mm	12mm	8mm
<b>20-1413</b>	1.5mm	15mm	9mm



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

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

#### Compartment Dimensions

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

#### Tray Dimensions

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

**80-1581**

Blue

**80-1582**

White

**80-1583**

Grey

**80-1584**

Black

**80-1594**

MICROCARE® Large Base Tray, with cover, holds four 20 compartment trays, and up to eight applicators.

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

**80-1595**

MICROCARE® Small Base Tray, with cover, holds two 20 compartment trays, and up to four applicators.

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

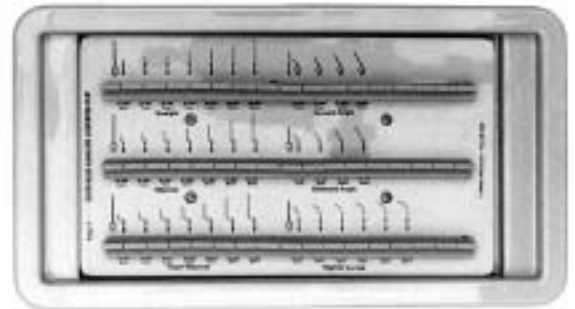
\*ULTEM™ is a trademark of General Electric.



# ANEURYSM CLIPS SUNDT SLIM-LINE

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

		Size	
80-1841	#1	12½" x 7" x 2"	(33cm x 18cm x 5cm)
80-1842	#2	12½" x 7" x 2"	(33cm x 18cm x 5cm)
80-1843	#3	12½" x 7" x 2"	(33cm x 18cm x 5cm)














Each Tray will hold the following clips:

	TRAY #1	TRAY #2	TRAY #2 (Continued)	TRAY #3
<b>Straight</b>		<b>Fenestrated Straight, 4mm</b>		
20-1600	5mm	20-1721	6mm	<b>Fenestrated 90°, 6mm</b>
20-1601	7mm	20-1722	8mm	20-1697 6mm
20-1602	9mm	20-1723	12mm	20-1698 9mm
20-1603	12mm	20-1724	16mm	20-1699 12mm
20-1604	15mm	20-1725	20mm	<b>Right Angle</b>
20-1605	20mm	20-1726	24mm	20-1626 5mm
20-1606	25mm	<b>Fenestrated 45°, 4mm</b>		20-1627 7.5mm
<b>Bayonet</b>		20-1727	6mm	20-1628 10mm
20-1655	5mm	20-1728	9mm	20-1629 15mm
20-1656	7mm	20-1729	12mm	<b>Sharp Right Angle</b>
20-1657	9mm	20-1730	16mm	20-1682 6mm
20-1658	12mm	20-1731	20mm	20-1683 9mm
20-1659	15mm	20-1732	24mm	20-1684 12mm
20-1660	20mm	<b>Fenestrated 90°, 4mm</b>		<b>TRAY #3</b>
20-1661	25mm	20-1718	6mm	<b>Reinforcing Clips</b>
<b>SuperBayonet</b>		20-1719	9mm	20-1740 6mm, 0°
20-1675	5mm	20-1720	12mm	20-1741 12mm, 0°
20-1676	7mm	<b>30° Forward Curve</b>		20-1742 18mm, 0°
20-1677	9mm	20-1635	8mm	20-1745 6mm, 30°
20-1678	12mm	20-1636	12mm	20-1746 12mm, 30°
20-1679	15mm	20-1637	16mm	20-1747 18mm, 30°
20-1680	20mm	<b>Fenestrated Bayonet 6mm</b>		20-1750 6mm, 60°
20-1681	25mm	20-1733	6mm	20-1751 12mm, 60°
<b>30° Forward Angle</b>		20-1734	9mm	20-1752 18mm, 60°
20-1648	7mm	20-1735	12mm	<b>Fenestrated Tandem (6mm)</b>
20-1649	9mm	20-1736	15mm	20-1700 6mm, 3mm extended
20-1650	12mm	<b>Fenestrated, Straight, 6mm</b>		20-1701 9mm, 3mm extended
20-1651	15mm	20-1685	6mm	20-1702 12mm, 3mm extended
<b>Sideward Angle</b>		20-1686	9mm	20-1703 6mm, 5mm extended
20-1641	7mm	20-1687	12mm	20-1704 9mm, 5mm extended
20-1642	9mm	20-1688	16mm	20-1705 12mm, 5mm extended
20-1643	12mm	20-1689	20mm	<b>Graft</b>
20-1644	15mm	20-1690	24mm	20-1715 4mm
<b>Slightly Curved</b>		<b>Fenestrated 45°, 6mm</b>		20-1716 3mm
20-1610	8mm	20-1691	6mm	20-1717 5mm
20-1611	10mm	20-1692	9mm	<b>Curved</b>
20-1612	12mm	20-1693	12mm	20-1620 7.5mm
20-1613	14mm	20-1694	16mm	20-1621 9.5mm
20-1614	16mm	20-1695	20mm	20-1622 11.5mm
20-1615	20mm	20-1696	24mm	<b>Bayonet, 30° Curved Forward</b>
				20-1665 7 mm R
				20-1666 9mm R
				20-1670 7mm L
				20-1671 9mm L

NEUROSURGERY  
MICROSURGERY

# ANEURYSM CLIPS SUNDT SLIM-LINE

SUNDT-KEES Slim-Line Aneurysm Clips non-magnetic MP35N stainless steel, high minimum closing pressure, slim jaw and low profile spring design for optimal visibility.

	Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)	Minimum Closing Pressure (grams)*		Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)	Minimum Closing Pressure (grams)*		
<b>Straight</b>					<b>Sideward Angle</b>						
	20-1600	1.5	5	5	328		20-1641	1.5	7	6	265
	20-1601	1.5	7	6	299		20-1642	1.5	9	7	247
	20-1602	1.5	9	7	271		20-1643	1.5	12	7	236
	20-1603	1.5	12	8	242		20-1644	1.5	15	8	219
	20-1604	1.5	15	9	219	<b>30° Forward Angle</b>					
	20-1605	1.88	20	10	213		20-1648	1.5	7	6	270
	20-1606	1.88	25	11	184		20-1649	1.5	9	7	259
<b>Slightly Curved</b>						20-1650	1.5	12	7	242	
	20-1610	1.5	8	7	265		20-1651	1.5	15	8	230
	20-1611	1.5	10	7	247	<b>Bayonet (Straight)</b>					
	20-1612	1.5	12	7	236		20-1655	1.5	5	5	183
	20-1613	1.5	14	7	219		20-1656	1.5	7	6	178
	20-1614	1.5	16	9	207		20-1657	1.5	9	7	173
	20-1615	1.5	20	10	196		20-1658	1.5	12	8	161
<b>Curved</b>						20-1659	1.5	15	8	150	
	20-1620	1.5	7.5	6	282		20-1660	1.5	20	9	145
	20-1621	1.5	9.5	6	265		20-1661	1.5	25	10	140
	20-1622	1.5	11.5	7	253	<b>Super Bayonet</b>					
<b>Right Angle</b>						20-1675	1.88	5	7	170	
	20-1626	1.5	5	6	224		20-1676	1.88	7	7	160
	20-1627	1.5	7.5	6	201		20-1677	1.88	9	7	150
	20-1628	1.5	10	6	178		20-1678	1.88	12	8	140
	20-1629	1.5	15	6	155		20-1679	1.88	15	9	130
<b>Sharp Right Angle</b>						20-1680	1.88	20	10	120	
	20-1682	1.5	6	7	265		20-1681	1.88	25	11	110
	20-1683	1.5	9	7	247	<b>Bayonet (30° Curved Forward-Right)</b>					
	20-1684	1.5	12	7	236		20-1665	1.5	7	5	230
<b>30° Forward Curve</b>						20-1666	1.5	9	6	196	
	20-1635	1.5	8	5	276	<b>Bayonet (30° Curved Forward-Left)</b>					
	20-1636	1.5	12	6	265		20-1670	1.5	7	5	230
	20-1637	1.5	16	9	247		20-1671	1.5	9	6	196

\*Measured at mid-base with 1.5mm opening.

# ANEURYSM CLIPS SUNDT SLIM-LINE

Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)	Minimum Closing Pressure (grams)*	Tray Number
------------------	-------------------	---------------------------	-----------------------------------	-------------

## Fenestrated Straight, 4mm Opening

20-1721	1.88	6	7	245	2
20-1722	1.88	9	8	230	2
20-1723	1.88	12	9	215	2
20-1724	1.88	16	9	200	2
20-1725	1.88	20	10	185	2
20-1726	1.88	24	11	170	2

## Fenestrated 45° Angle, 4mm Opening

20-1727	1.78	6	6	250	2
20-1728	1.78	9	8	225	2
20-1729	1.78	12	9	200	2
20-1730	1.78	16	8	175	2
20-1731	1.78	20	9	150	2
20-1732	1.78	24	10	125	2

## Fenestrated 90° Angle, 4mm Opening

20-1718	1.5	6	5	250	2
20-1719	1.5	9	5	230	2
20-1720	1.5	12	5	210	2

## Fenestrated, Straight, 6mm Opening

20-1685	1.88	6	7	200	2
20-1686	1.88	9	8	185	2
20-1687	1.88	12	9	170	2
20-1688	1.88	16	9	155	2
20-1689	1.88	20	10	140	2
20-1690	1.88	24	11	125	2

## Fenestrated 45° Angle, 6mm Opening

20-1691	1.78	6	6	235	2
20-1692	1.78	9	8	210	2
20-1693	1.78	12	9	185	2
20-1694	1.78	16	9	160	2
20-1695	1.78	20	10	135	2
20-1696	1.78	24	11	110	2

## Fenestrated 90° Angle, 6mm Opening

20-1697	1.5	6	6	250	2
20-1698	1.5	9	6	230	2
20-1699	1.5	12	6	210	2

Blade Width (mm)	Blade Length (mm)	Blade Opening at Tip (mm)	Minimum Closing Pressure (grams)*	Tray Number
------------------	-------------------	---------------------------	-----------------------------------	-------------

## Fenestrated Bayonet, Straight, 6mm Opening

20-1733	1.88	6	7	170	2
20-1734	1.88	9	8	160	2
20-1735	1.88	12	9	150	2
20-1736	1.88	15	10	140	2

## Fenestrated Straight, 3mm Extended Tandem, 6mm Opening

20-1700	1.88	6	7	150	3
20-1701	1.88	9	8	145	3
20-1702	1.88	12	9	140	3

## Fenestrated Straight, 5mm Extended Tandem, 6mm Opening

20-1703	1.88	6	8	145	3
20-1704	1.88	9	9	140	3
20-1705	1.88	12	10	130	3

## Graft, 4mm Diameter

20-1715	1.88	3	4	200	3
20-1716	1.88	5	4	200	3
20-1717	1.88	7	4	200	3

## Reinforcing 0° Angle, 6mm Wide

20-1740	1.88	6	5	300	3
20-1741	1.88	12	5	200	3
20-1742	1.88	18	5	150	3

## Reinforcing 30° Angle, 6mm Wide

20-1745	1.88	6	5	300	3
20-1746	1.88	12	5	200	3
20-1747	1.88	18	5	150	3

## Reinforcing 60° Angle, 6mm Wide

20-1750	1.88	6	5	300	3
20-1751	1.88	12	5	200	3
20-1752	1.88	18	5	150	3

NEUROSURGERY  
MICROSURGERY

# ANEURYSM CLIPS SUNDT SLIM-LINE



20-5203



20-5205



20-5206

SUNDT SLIM-LINE Aneurysm Clip Appliers bayonet, stainless steel. Applies SUNDT SLIM-LINE Clips only.

	Tip	Length	Working Distance
<b>20-5203</b>	single hinge	8" (20cm)	3¾" (9.5cm)
<b>20-5205</b>	fixed head	8" (20cm)	3¾" (9.5cm)
<b>20-5206</b>	hinged head	8" (20cm)	3¾" (9.5cm)

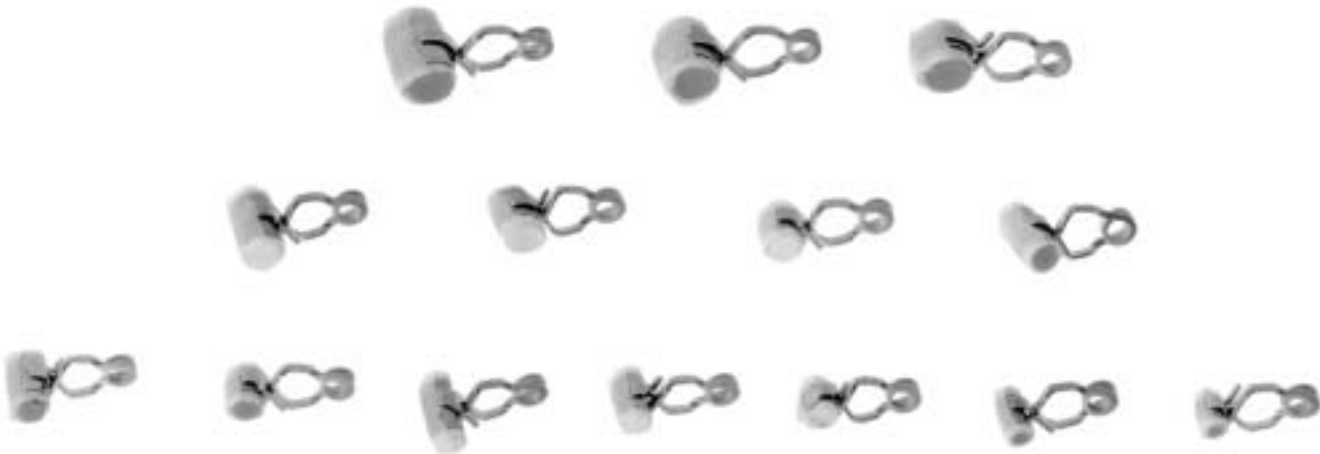
# ANEURYSM CLIPS SUNDT SLIM-LINE GRAFT



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

Length	12½"	(33cm)
Width	7"	(18cm)
Depth	2"	(5cm)

# ANEURYSM CLIPS SUNDT SLIM-LINE GRAFT



SUNDT SLIM-LINE GRAFT CLIPS  
TFE interliner, non-magnetic MP35N steel.  
Use SUNDT SLIM-LINE Aneurysm Clip  
Appliers 20-5200 or 20-5201, or 20-5202,  
or 20-5203.

	Blade Diameter		Blade Length
20-1760	2mm	x	3mm
20-1761	2mm	x	5mm
20-1762	2.5mm	x	3mm
20-1763	2.5mm	x	5mm
20-1764	2.5mm	x	7mm
20-1765	3mm	x	3mm
20-1766	3mm	x	5mm
20-1767	3mm	x	7mm
20-1768	3.5mm	x	3mm
20-1769	3.5mm	x	5mm
20-1770	3.5mm	x	7mm
20-1715	4mm	x	3mm
20-1716	4mm	x	5mm
20-1717	4mm	x	7mm
20-1771	5mm	x	3mm
20-1772	5mm	x	5mm
20-1773	5mm	x	7mm

NEUROSURGERY/  
MICROSURGERY

# ANEURYSM CLIPS SUNDT AVM MICRO

SUNDT AVM Micro Clip System, Single piece construction, non-magnetic, MRI compatible, MP35N stainless steel, triple coiled, high minimum closing pressure. Used for hemostasis of small perforating vessels during surgical excision of arterio-venous malformations. Use with the corresponding Sundt AVM Micro Clip Applier.



**20-1659** SUNDT SLIM-LINE Standard Aneurysm Clip Blade length 15mm  
Shown here for comparison to SUNDT AVM Micro Clips.  
(Clips enlarged 2.6 times)

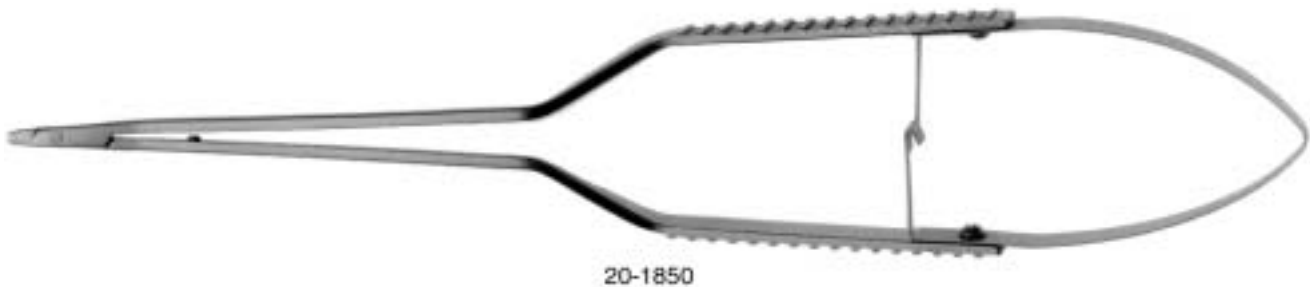


Product Code	Clip No.	Blade Width (mm)	Blade Length (mm)	Opening at Tip (mm)	Minimum Closing Pressure (grams)
20-1801	#1	.15	1	.5	10
20-1802	#2	.20	1.5	.75	20
20-1803	#3	.25	2	1.0	30
20-1804	#4	.30	3	1.5	40
20-1805	#5	.36	4	2	50

The SUNDT AVM Micro Clip Applier applies the corresponding SUNDT AVM Micro Aneurysm Clip #1, #2, #3, #4 and #5. The applier is designed with a latch mechanism to lock the aneurysm clip in the jaws of the applier.

- 20-1850 #1
- 20-1851 #2
- 20-1852 #3
- 20-1853 #4
- 20-1854 #5
- 80-1840

The SUNDT AVM Micro Clip Sterilization Tray holds several SUNDT AVM Micro Clips #1, #2, #3, #4 and #5. Clip outline and catalog number on tray for easy inventory control.



# ANEURYSM CLIPS SUNDT AVM MICRO

- 80-1840** SUNDT AVM Micro Clip Tray  
Sterilizing/storage tray made of lightweight ULTEM®. Contains soft rubber bars to hold individual AVM clips in storage cubes. Code numbers and drawings of clips appear on bottom of tray. Rubber holders on cover secure applicators.
- |        |      |        |
|--------|------|--------|
| Length | 12½" | (33cm) |
| Width  | 7"   | (18cm) |
| Depth  | 2"   | (5cm)  |



# ANEURYSM CLIPS SUNDT SLIM-LINE MINI

- 80-1835** SUNDT SLIM-LINE Mini Aneurysm Clip  
Microcare Storage/Sterilizing Tray. For #6 and #7 SUNDT SLIM-LINE mini aneurysm clips and applicators. Clip outline and catalog number on tray for easy inventory control.
- |        |      |        |
|--------|------|--------|
| Length | 12½" | (33cm) |
| Width  | 7"   | (18cm) |
| Depth  | 2"   | (5cm)  |



NEUROSURGERY  
MICROSURGERY

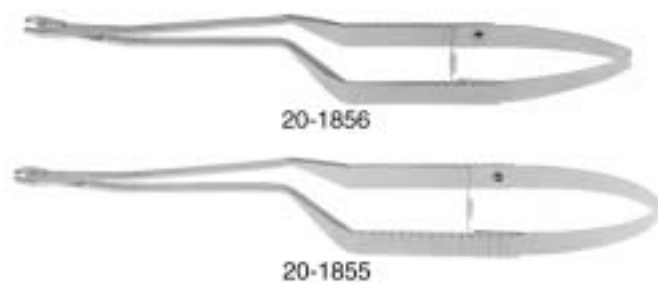
# ANEURYSM CLIPS SUNDT SLIM-LINE MINI

SUNDT SLIM-LINE Mini Aneurysm Clips

Use corresponding #6 (20-1855) or #7 (20-1856) Mini Aneurysm Clip Appliers.



Catalog Number	Configuration	Blade Length
20-1821	#6 Clip, Straight	7mm
20-1822	#6 Clip, Slightly Curved	7mm
20-1823	#6 Clip, Forward Curve	6mm
20-1824	#6 Clip, Slightly Curved	6mm
20-1825	#6 Clip, Straight	6mm
20-1826	#6 Clip, Bayonet	4.5mm
20-1827	#6 Clip, Right Angle	4.5mm
20-1828	#6 Clip, Forward Angle	5mm
20-1829	#6 Clip, Side Angle	5mm
20-1831	#7 Clip, Slightly Curved	9mm
20-1832	#6 Clip, Straight	10mm
20-1833	#7 Clip, Bayonet	9mm
20-1834	#7 Clip, Right Angle	5.5mm
20-1835	#7 Clip, Forward Angle	8.5mm
20-1836	#7 Clip, Side Angle	10mm
20-1837	#7 Clip, Forward Curve	9.5mm
20-1838	#6 Clip, Straight	4mm
20-1839	#7 Clip, Slightly Curved	9.5mm



SUNDT SLIM-LINE Mini Aneurysm Clip Appliers  
Applies the corresponding, #6 or #7 mini  
aneurysm clips only.

- 20-1855** Mini Aneurysm Clip Applier #6
- 20-1856** Mini Aneurysm Clip Applier #7



# ANEURYSM CLIPS SUNDT SLIM-LINE TEMPORARY

SUNDT SLIM-LINE Temporary Vessel Clips used for temporary vascular occlusion during intracranial surgical procedures. Non-magnetic, MP35N, MRI compatible, gold color.

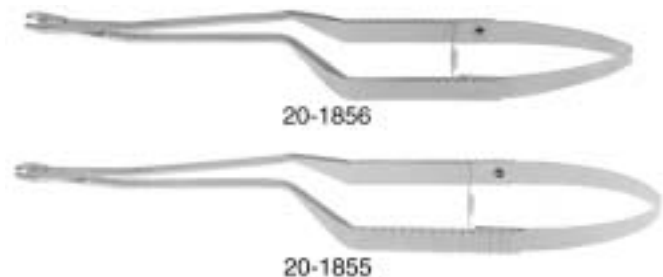
Applied with #6 and #7 Sundt Slim-Line Mini Clip Appliers (20-1855, 20-1856).



Catalog Number	Configuration	Width Dimension	Blade Length	*Grams/Pressure	Identification	Applier
20-1860	#6 Clip, Slightly Curved	0.5mm	6mm	50-80	Gold	#6, 20-1855
20-1861	#6 Clip, Straight	0.5mm	6mm	50-80	Gold	#6, 20-1855
20-1862	#6 Clip, Side Angle	0.5mm	5mm	50-80	Gold	#6, 20-1855
20-1863	#7 Clip, Slightly Curved	0.6mm	9mm	50-80	Gold	#7, 20-1856
20-1864	#7 Clip, Straight	0.6mm	10mm	50-80	Gold	#7, 20-1856
20-1865	#7 Clip, Bayonet	0.6mm	6mm	50-80	Gold	#7, 20-1856
20-1866	#7 Clip, Right Angle	0.6mm	5.5mm	50-80	Gold	#7, 20-1856
20-1867	#7 Clip, Side Angle	0.6mm	10mm	50-80	Gold	#7, 20-1856
20-1868	#7 Clip, Straight	0.6mm	15mm	50-80	Gold	#7, 20-1856
20-1869	#7 Clip, Slightly Curved	0.6mm	15mm	50-80	Gold	#7, 20-1856
20-1870	#6 Clip, Straight	0.5mm	4mm	50-80	Gold	#6, 20-1855
20-1871	#7 Clip, Slightly Curved	0.6mm	9.5mm	50-80	Gold	#7, 20-1856
20-1872	#6 Clip, Forward Curve	0.5mm	6mm	50-80	Gold	#6, 20-1855
20-1873	#7 Clip, Forward Curve	0.6mm	9.5mm	50-80	Gold	#7, 20-1856
20-1874	#6 Clip, Slightly Curved	0.5mm	7mm	50-80	Gold	#6, 20-1855

SUNDT SLIM-LINE Mini Aneurysm Clip Appliers  
Applies the corresponding, #6 or #7 mini aneurysm clips only.

20-1855 Mini Aneurysm Clip Applier #6  
20-1856 Mini Aneurysm Clip Applier #7



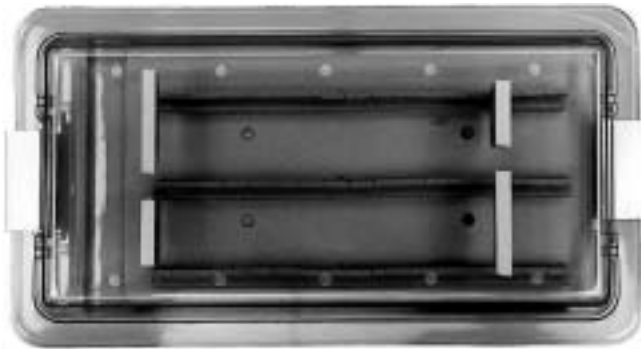
NEUROSURGERY  
MICROSURGERY

# ANEURYSM CLIPS SUNDT SLIM-LINE TEMPORARY

---



- 80-1845** SUNDT SLIM-LINE Temporary Clip Tray  
Sterilizing/storage tray made of lightweight ULTEM®. Contains soft rubber bars to hold individual clips. Code numbers and drawings of clips appear on bottom of tray. Rubber holders on cover secure applicators.
- |        |      |        |
|--------|------|--------|
| Length | 12½" | (33cm) |
| Width  | 7"   | (18cm) |
| Depth  | 2"   | (5cm)  |
- 



- 80-1838** Universal Aneurysm Clip Storage/Sterilizing Case. Made of molded polyetherimide, for most designs of aneurysm clips and clip applicators. Rubber locking grips securely hold aneurysm clips. Rubber grips on the cover hold 2 Aneurysm Clip Applicators in place.
- |        |      |        |
|--------|------|--------|
| Length | 12½" | (33cm) |
| Width  | 7"   | (18cm) |
| Depth  | 2"   | (5cm)  |
- 

# ANEURYSM CLIPS TEMPORARY VESSEL

---



- 20-7005** VARI-ANGLE Temporary Vessel Clip Applying Forceps, applies VARI-ANGLE Temporary Clips only.
- |        |     |         |
|--------|-----|---------|
| Length | 6¾" | (171mm) |
|--------|-----|---------|
-

# ARTERY CLIPS

SCHWARTZ Temporary Intracranial Artery Clamps, 301 stainless steel, sold six per package. Use with 20-5008 SCHWARTZ Temporary Clamp Applying Forceps only. Approximate closing pressure over 500 gms.

	Type	Width	Length
<b>19-1010</b>	Straight	1.6mm	9.5mm
<b>19-1011</b>	25° angle	1.6mm	9.5mm
<b>19-1012</b>	45° angle	1.6mm	9.5mm



<b>20-5008</b>	SCHWARTZ Temporary Vessel Clamp Applying Forceps, applies SCHWARTZ Temporary Clips only.		
	Length	7 <sup>3</sup> / <sub>4</sub> "	(197mm)



# COAGULATORS BIPOLAR

---



MALIS CMC-III Bipolar Cutting and Bipolar Coagulation System provides high power and micro bipolar cutting of a variety of tissues, and gentle coagulation.

- high power and micro bipolar cutting
- separate LED displays for: high power cut; micro cut; coagulation
- independent cut/coagulate controls
- power in watts or MALIS units
- irrigation enable/disable function
- LED test function
- cut/coagulation reset
- wireless remote control
- synthesized voice diagnostics
- dual voltage selector, 110/220V
- detachable power cord

**80-1171** MALIS CMC-III Bipolar Cutting and Bipolar Coagulation System

Complete

Includes:

**80-1170** MALIS CMC-III Generator 110V/220V (or 80-1172)

**80-1173** Pneumatic Footpedal or Electric Footpedal (80-1149)

**80-1175** Wireless Remote Control

**80-1164** MALIS Irrigation Module (110V)

**80-1174** Irrigation Connecting Cable (for serial numbers without suffix A)

**80-1138** Irrigator I.V. Pole

**80-1177** CODMAN Floorstand for CMC-II/CMC-III

Optional Products and Accessories

**80-1170** MALIS CMC-III Bipolar Cutting and Bipolar Coagulation Generator 110V/220V. Includes detachable power cord, Footpedal (80-1173 or 80-1149), Wireless Remote Control (80-1175), Irrigator Connecting Cable (80-1174 (for serial numbers without suffix A) or 80-1179)

**80-1172** MALIS CMC-III Bipolar Generator I.E.C. (International). Includes detachable power cord, Footpedal (80-1184), Wireless Remote Control (80-1176), Irrigating Connecting Cable (80-1174)

**80-1163** MALIS Integrated Irrigation Tubing and Bipolar Cord, 10/cs, sterile

**80-1165** MALIS Irrigation Tubing Sets, 10/cs, sterile

**30-1538** Bipolar Cords 10/cs, sterile, disposable

**30-1536** Bipolar Cord – Reusable

**80-1230** MALIS Bipolar/Irrigating Loop Cutting Forceps, 5.0mm

**80-1231** MALIS Bipolar/Irrigating Loop Cutting Forceps, 7.0mm

**80-1232** MALIS Bipolar/Irrigating Loop Cutting Forceps, 10.0mm

**80-1179** MALIS CMC-III Footswitch/Irrigation Cable  
Additional Bipolar and Bipolar/Irrigating Forceps are available.

---

# COAGULATORS BIPOLAR

---

**80-1149** Malis CMC-111 Bipolar Footpedal used with Malis CMC-111 Bipolar System (80-1170).

---



# COAGULATORS BIPOLAR

---



---

**80-1173** MALIS CMC-III Pneumatic Footpedal  
Used with MALIS CMC-III Bipolar System  
(80-1170).

---



---

**80-1175** MALIS CMC-III Wireless Remote Control  
Used with MALIS CMC-III Bipolar System  
(80-1170).

---

MALIS CMC-III Bipolar Cutting and Bipolar Coagulation System provides high power and micro bipolar cutting of a variety of tissues, and gentle coagulation.

- high power and micro bipolar cutting
- separate LED displays for: high power cut; micro cut; coagulation
- independent cut/coagulate controls
- power in watts or MALIS units
- irrigation enable/disable function
- LED test function
- cut/coagulation reset
- wireless remote control
- synthesized voice diagnostics
- dual voltage selector, 110/220V
- detachable power cord

**80-1171** MALIS CMC-III Bipolar Cutting and Bipolar Coagulation System

Complete

Includes:

**80-1170** MALIS CMC-III Generator 110V/220V (or 80-1172)

**80-1173** Pneumatic Footpedal or Electric Footpedal (80-1149)

**80-1175** Wireless Remote Control

**80-1164** MALIS Irrigation Module (110V)

**80-1174** Irrigator Connecting Cable (for serial numbers without suffix A)

**80-1138** Irrigator I.V. Pole

**80-1177** CODMAN Floorstand for CMC-II/CMC-III

Optional Products and Accessories

**80-1170** MALIS CMC-III Bipolar Cutting and Bipolar Coagulation Generator 110V/220V. Includes detachable power cord, Footpedal (80-1173 or 80-1149), Wireless Remote Control (80-1175), Irrigator Connecting Cable (80-1174 (for serial numbers without suffix A) or 80-1179)

**80-1172** MALIS CMC-III Bipolar Generator I.E.C. (International). Includes detachable power cord, Footpedal (80-1184), Wireless Remote Control (80-1176), Irrigating Connecting Cable (80-1174)

**80-1163** MALIS Integrated Irrigation Tubing and Bipolar Cord, 10/cs, sterile

**80-1165** MALIS Irrigation Tubing Sets, 10/cs, sterile

**30-1538** Bipolar Cords 10/cs, sterile, disposable

**30-1536** Bipolar Cord – Reusable

**80-1230** MALIS Bipolar/Irrigating Loop Cutting Forceps, 5.0mm

**80-1231** MALIS Bipolar/Irrigating Loop Cutting Forceps, 7.0mm

**80-1232** MALIS Bipolar/Irrigating Loop Cutting Forceps, 10.0mm

**80-1179** MALIS CMC-III Footswitch/Irrigation Cable  
Additional Bipolar and Bipolar/Irrigating Forceps are available.



# COAGULATORS BIPOLAR

---



---

**80-1187** SYNERGY® MALIS™ Precision Bipolar Coagulator  
Includes 1 generator, 1 detachable power cord, and 1 electric foot pedal.

---



# COAGULATORS CABLES

## BIPOLAR Cords

Use with all CODMAN Bipolar Forceps. Bipolar Cutting Forceps or Bipolar Irrigating Forceps. Attach to MALIS CMC-III Bipolar Coagulator and Bipolar Cutter (80-1170), MALIS CMC-II Bipolar Coagulator and Bipolar Cutter (80-1140, 80-1142), or MALIS CMC-II PC Bipolar Coagulator (80-1160).

**30-1536** BIPOLAR Cord, Reuseable

Length 12 (3.m)

CAUTION: Do not flash autoclave 30-1536 BIPOLAR Cord, also check cord before each procedure for its integrity.

**30-1538** BIPOLAR Cord, disposable sterile, 10/package. Do not resterilize 30-1538 Disposable Cord.

**30-1539** BIPOLAR Cord, IEC, reusable. For use with 80-1117, MALIS CMC-I IEC and 80-1142, MALIS CMC-II IEC, and 80-1170 MALIS CMC-III.



30-1536



30-1538



30-1539

NEUROSURGERY  
MICROSURGERY

# COAGULATORS FLOOR STAND

---



- 
- 80-1177** CODMAN Coagulator Floorstand, tip resistant. Conductive casters allow easy mobility. Accommodates MALIS CMC-II (80-1140), or CMC-II PC (80-1160) OR CMC-III (80-1170) and MALIS Irrigation Module (80-1164). (Total of 2 units at one time.)
- 

# COAGULATORS ACCESSORIES

---



- 
- 80-1175** MALIS CMC-III Wireless Remote Control Used with MALIS CMC-III Bipolar System (80-1170).
-

# COAGULATORS IRRIGATION MODULE

- 
- 80-1164** MALIS CMC-II Irrigation Module  
Provides flow controlled irrigation in conjunction with bipolar coagulation. Fluid delivered from the tips of irrigating bipolar forceps at the rate of 6cc to 30cc per minute.  
Includes:  
Irrigator 110V, IV Pole (80-1138), Pole clamp, Malis CMC-II PC footpedal (80-1162)  
Optional accessories:
- 80-1163** MALIS Integrated Irrigation Tubing and Bipolar Cord Set
- 80-1165** Irrigation Tubing Set
- 80-1166** Interconnecting Footpedal Cable
- 80-1169** MALIS CMC-II Irrigation Module—Japan
- 80-1159** Irrigator Pneumatic Interconnecting Cable
- 80-1151** MALIS CMC-III I.E.C. Irrigator Module, 220V, (International)
- 



- 
- 80-1163** MALIS Integrated Irrigation Tubing and Bipolar Cord Set used with:  
MALIS Bipolar Cutter/Coagulators (80-1170, 80-1187, 80-1140, 80-1160) and MALIS Irrigation Module (80-1164). Sterile, 10/case.
- 



NEUROSURGERY  
MICROSURGERY

# COAGULATORS IRRIGATION MODULE

---



---

**80-1179** CMC III Footpedal/Irrigation Cable. The MALIS CMC III Foot Switch/Irrigation Cable was designed to allow use of the MALIS CMC-II Bipedal Footswitch (80-1149) with the MALIS CMC III Bipolar Electrosurgical System and the MALIS CMC II Irrigation Module (80-1164). This cable provides the option of using either the CMC-II Bipedal Footswitch or the CMC III Airfoot pedal(80-1173) to control the cutting and coagulation functions of the MALIS CMC III generator, as well as the irrigation function of the CMC II Irrigation Module.

---



---

**80-1138** Irrigation Module IV pole - for use with (80-1177) Coagulator Floorstand and (80-1164) Malis Irrigation System

---

# COAGULATORS FORCEPS, BIPOLAR

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



**80-2947** CODMAN Non-Stick Mirror Finish Trigeminal Bipolar Forceps, bayonet, Titanium.  
Working distance 3½" (89mm)  
Tip width .4mm  
Length 7⅝" (186mm)  
**80-2948** 45° Angled up  
45° Angled down



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



**80-2925** CUSHING Non-Stick Mirror Finish Bipolar Forceps, straight.  
Tip width 1.65mm  
Length 7" (178mm)  
**80-2920** Forceps only  
Forceps with insulation



**80-2962** E-SERIES\* Non-Stick Mirror Finish Bipolar Forceps, straight, TITANIUM. Unique tip alignment system.  
Closing Pressure 75 gms. (approximate)  
Length 6" (150mm)  
**80-2963** Fine Tip width .3mm  
Regular Tip width 1mm



NEUROSURGERY  
MICROSURGERY

# COAGULATORS FORCEPS, BIPOLAR



**80-2924** GERALD Non-Stick Mirror Finish Bipolar Forceps, straight.  
 Tip width .9mm  
 Length 7" (178mm)



**80-2983** GREENWOOD Non-Stick Mirror Finish Bipolar and Suction Forceps, bayonet.  
 Working distance 3¼" (83mm)  
 Tip width 1.75mm  
 Length 7½" (191mm)  
**80-2984** Forceps  
 Forceps with insulation



**80-3060** HARDY Non-Stick Mirror Finish Insulated Bipolar Forceps, bayonet.  
 Tip width .7mm  
 Length 8¼" (210mm)



**80-2911** HARDY Non-Stick Mirror Finish Bipolar Forceps, bayonet.  
 Working distance 4¾" (121mm)  
 Tip width .7mm  
 Length 8¼" (210mm)

**80-3060** HARDY Non-Stick Mirror Finish Insulated Bipolar Forceps, bayonet.  
 Working distance 4¾" (121mm)  
 Tip width .7mm  
 Length 8¼" (210mm)

# COAGULATORS FORCEPS, BIPOLAR

	IRIS Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		.6mm
<b>80-2965</b>	Length	3 <sup>5</sup> / <sub>8</sub> "	(92mm)
<b>80-2966</b>	Straight		
	Curved		



<b>80-2926</b>	JEWELERS #5 Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		.35mm
	Length	4 <sup>3</sup> / <sub>8</sub> "	(111mm)



	MALIS Non-Stick Mirror Finish Bipolar Forceps, straight, TITANIUM.		
<b>80-2940</b>	Length	6"	(152mm)
<b>80-2945</b>	Fine	Tip width	.4mm
	Extra fine	Tip width	.25mm



	MALIS* Non-Stick Mirror Finish Bipolar Coagulation and Cutting Forceps Specifically designed for use with the MALIS* CMC-III (80-1170, 80-1171). Forceps are insulated stainless steel.		
<b>80-2914</b>	Straight		
	Tip width	.2mm	
	Length	5 <sup>1</sup> / <sub>2</sub> "	(140mm)
<b>80-2915</b>	Straight		
	Tip width	.2mm	
	Length	6 <sup>3</sup> / <sub>4</sub> "	(172mm)
<b>80-2916</b>	Bayonet		
	Tip width	.2mm	
	Length	7 <sup>3</sup> / <sub>4</sub> "	(197mm)



# COAGULATORS FORCEPS, BIPOLAR



<b>80-2923</b>	MALIS-JENSEN Non-Stick Mirror Finish Bipolar Forceps, bayonet.		
	Working distance	4"	(101mm)
	Tip width		.25mm
	Length	7½"	(191mm)



<b>80-2922</b>	MALIS Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		.75mm
	Length	5"	(140mm)



	MALIS Non-Stick Mirror Finish Bipolar Forceps, bayonet.		
	Working distance	¾"	(83mm)
	Tip width		1.5mm
	Length	7"	(178mm)
<b>80-2912</b>	Forceps only		
<b>80-2921</b>	Forceps with insulation		

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.



# COAGULATORS FORCEPS, BIPOLAR



MALIS Non-Stick Mirror Finish Bipolar Forceps, bayonet, TITANIUM.

Working distance 3<sup>3</sup>/<sub>4</sub>" (95mm)  
Length 8<sup>3</sup>/<sub>4</sub>" (222mm)

		Tip Width
<b>80-2938</b>	Straight, fine tip	.4mm
<b>80-2939</b>	Straight, regular tip	1.5mm
<b>80-2941</b>	Straight, medium tip	1mm
<b>80-2942</b>	Angled up, fine tip	.4mm
<b>80-2943</b>	Angled down, fine tip	.4mm
<b>80-2944</b>	Curved up, blunt tip	.4mm
<b>80-2946</b>	Straight, extra fine tip	.25mm

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

RHOTON Non-Stick Mirror Finish Bipolar Forceps, straight, TITANIUM.

Length 7" (178mm)

<b>80-2949</b>	Fine	Tip width	.45mm
<b>80-2950</b>	Regular	Tip width	1mm

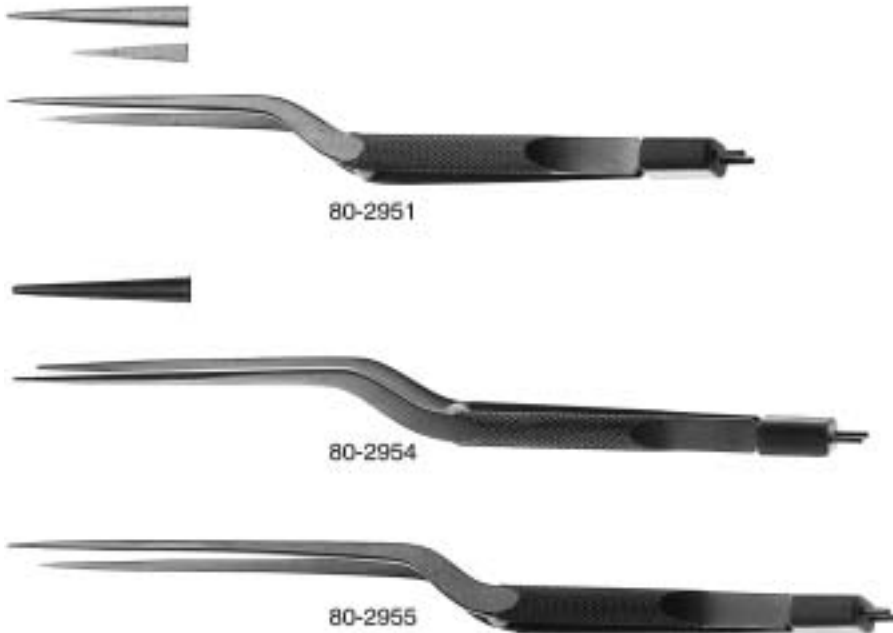
NOTE: See back of NEUROSURGICAL Section for list of all Malis, Rhoton and Spetzler instruments.



NEUROSURGERY  
MICROSURGERY

# COAGULATORS FORCEPS, BIPOLAR

---




---

	RHOTON Non-Stick Mirror Finish Bipolar Forceps, bayonet, TITANIUM		
	Working distance	3½"	(89mm)
	Length	8¼"	(210mm)
<b>80-2951</b>	Fine	Tip width	.45mm
<b>80-2952</b>	Regular	Tip width	1mm
	Working distance	4"	(102mm)
	Length	9"	(229mm)
<b>80-2953</b>	Fine	Tip width	.5mm
<b>80-2954</b>	Regular	Tip width	1mm
	Working distance	4¾"	(120mm)
	Length	9¾"	(248mm)
<b>80-2955</b>	Fine	Tip width	.7mm

	RHOTON Bipolar Forceps, bayonet, TITANIUM.		
	Working distance	3¾"	(95mm)
	Length	8⅞"	(225mm)
<b>80-2956</b>	Fine	Tip width	.5mm
<b>80-2957</b>	Medium	Tip width	.7mm
<b>80-2958</b>	Regular	Tip width	1.0mm
<b>80-2959</b>	Large	Tip width	1.5mm

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

---

# COAGULATORS FORCEPS, BIPOLAR

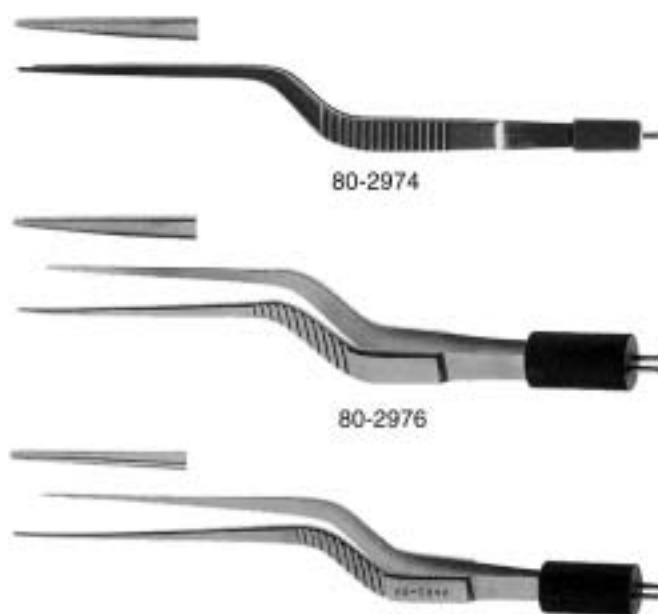
	SPETZLER Non-Stick Mirror Finish Neuro-Vascular Bipolar Forceps Titanium, bayonet		
	Length	9 <sup>7</sup> / <sub>8</sub> "	(241mm)
	Working distance	4"	(100mm)
			Tip size
<b>80-2960</b>	Bipolar Forceps,	straight tip	.9mm
<b>80-2961</b>	Bipolar Forceps,	30° angled tip	.9mm



<b>80-2967</b>	STANDARD Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		.5mm
	Length	3 <sup>5</sup> / <sub>8</sub> "	(92mm)



	YASARGIL Non-Stick Mirror Finish Bipolar Forceps, bayonet.		
	Working distance	2 <sup>1</sup> / <sub>2</sub> "	(64mm)
	Length	6 <sup>3</sup> / <sub>4</sub> "	(171mm)
<b>80-2972</b>	Fine	Tip width	.5mm
<b>80-2973</b>	Medium	Tip width	.7mm
<b>80-2974</b>	Regular	Tip width	1mm
	Working distance	3"	(76mm)
	Length	7 <sup>1</sup> / <sub>4</sub> "	(184mm)
<b>80-2975</b>	Fine	Tip width	.5mm
<b>80-2976</b>	Medium	Tip width	.7mm
<b>80-2977</b>	Regular	Tip width	1mm
<b>80-2978</b>	Large	Tip width	1.3mm
	Working distance	4"	(102mm)
	Length	8 <sup>1</sup> / <sub>4</sub> "	(210mm)
<b>80-2979</b>	Fine	Tip width	.5mm
<b>80-2980</b>	Medium	Tip width	.7mm
<b>80-2981</b>	Regular	Tip width	1mm
<b>80-2982</b>	Large	Tip width	1.3mm



	YASARGIL Non-Stick Mirror Finish Insulated Bipolar Forceps, bayonet.		
	Working distance	2 <sup>1</sup> / <sub>2</sub> "	(64mm)
	Length	6 <sup>3</sup> / <sub>4</sub> "	(171mm)
<b>80-3084</b>	Medium	Tip width	.7mm
<b>80-3085</b>	Regular	Tip width	1mm
	Working distance	4"	(102mm)
	Length	8 <sup>1</sup> / <sub>4</sub> "	(210mm)
<b>80-3086</b>	Large	Tip width	1.3mm



NEUROSURGERY  
MICROSURGERY

# COAGULATORS FORCEPS, BIPOLAR IRRIGATING

MALIS Non-Stick Mirror Finish Bipolar Irrigating Forceps, used in conjunction with the Malis Irrigation Module (80-1164)



Code #	Style	Length	Alloy	Tip Configuration	Tip Size
80-1230	Bayonet	8¾" (22.4cm)	Insulated Titanium	Circular Loop	5mm
80-1231	Bayonet	8¾" (22.4cm)	Insulated Titanium	Circular Loop	7mm
80-1232	Bayonet	8¾" (22.4cm)	Insulated Titanium	Circular Loop	10mm
80-2900	Bayonet	8½" (21.8cm)	Insulated Stainless	Straight	0.70mm
80-2901	Bayonet	7¾" (19.7cm)	Insulated Stainless	Straight	1.0mm
80-2902	Bayonet	8½" (21.8cm)	Titanium	Straight	0.50mm
80-2903	Bayonet	7¾" (19.7cm)	Insulated Stainless	Straight	0.25mm
80-2904	Bayonet	8¾" (22.4cm)	Titanium	Straight	1.5mm
80-2905	Bayonet	8¾" (22.4cm)	Titanium	Straight	1.0mm
80-2906	Bayonet	8¾" (22.4cm)	Titanium	Straight	0.25mm
80-2913	Straight	5" (13.9cm)	Insulated Stainless	Straight	0.75mm
80-2917	Straight	5" (13.9cm)	Insulated Stainless	Straight	0.25mm
80-2918	Straight	7" (18cm)	Insulated Stainless	Straight	0.25mm
80-2919	Bayonet	7¾" (19.7cm)	Insulated Stainless	Straight	0.25mm
80-2927	Straight	6" (15.2cm)	Titanium	Straight	0.25mm
80-2928	Straight	6" (15cm)	Titanium	Straight	0.45mm
80-2929	Bayonet	8¾" (22.4cm)	Titanium	Angle Up	0.50mm
80-2930	Bayonet	8¾" (22.4cm)	Titanium	Angle Down	0.50mm
80-2931	Bayonet	8¾" (22.4cm)	Titanium	90° Blunt Curve Up	0.75mm
80-2932	Bayonet	8¾" (22.4cm)	Titanium	90° Blunt Curve Down	0.75mm
80-2985	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Straight	0.25mm
80-2986	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Straight	0.5mm
80-2987	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Straight	1mm
80-2988	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Straight	1.5mm
80-2989	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Angle Up	0.5mm
80-2990	Bayonet	7¾" (19.7cm)	Insulated	Straight	1.5mm
80-2991	Bayonet	7½" (19.1cm)	Insulated	Straight	5mm
80-2992	Bayonet	7½" (19.1cm)	Insulated Titanium	Straight	4mm
80-2993	Bayonet	7½" (19.1cm)	Insulated Titanium	Straight	1mm
80-2994	Bayonet	7½" (19.1cm)	Insulated Titanium	Straight	1.5mm
80-2995	Straight	6" (15cm)	Insulated Titanium	Straight	4mm
80-2996	Irrigating Bayonet	10¾" (27.3cm)	Insulated Titanium	Straight	25mm
80-2997	Irrigating Bayonet	10¾" (27.3cm)	Insulated Titanium	Straight	5mm
80-2998	Irrigating Bayonet	10¾" (27.3cm)	Insulated Titanium	Straight	1mm
80-2999	Irrigating Bayonet	10¾" (27.3cm)	Insulated Titanium	Straight	1.5mm
80-3050	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Straight Forcep - Duck Billed	1mm

# COAGULATORS FORCEPS, BIPOLAR IRRIGATING

The nine patterns of RHOTON Bipolar Irrigating Forceps include two bayonet forceps with four tip sizes each, and one straight forceps. The unique feature of these forceps is that the irrigation pipe is completely recessed into the right blade of the forceps. This offers the surgeon increased visibility at the forceps tips. The bayonet pattern are offered in two lengths, short (8cm working distance) and long (9cm working distance), which are needed for superficial and deep operations. Each length is offered with four distal tip widths.



## RHOTON Non-Stick Mirror Finish Bipolar Irrigation Forceps, Titanium

	Working Distance	3.2"	(8cm)
	Length	8¼"	(21cm)
<b>80-2907</b>	Bayonet	Tip Width	0.25mm
<b>80-2933</b>	Bayonet	Tip Width	0.50mm
<b>80-2908</b>	Bayonet	Tip Width	0.70mm
<b>80-2934</b>	Bayonet	Tip Width	1.00mm
	Working Distance	3.7"	(9.5cm)
	Length	9"	(22.5cm)
<b>80-2909</b>	Bayonet	Tip Width	0.25mm
<b>80-2935</b>	Bayonet	Tip Width	0.50mm
<b>80-2910</b>	Bayonet	Tip Width	0.70mm
<b>80-2936</b>	Bayonet	Tip Width	1.00mm
<b>80-2937</b>	Straight Length	7"	(18cm)
		Tip Width	.7mm

**80-1130** Stylets – set of 10/replacements for preventive maintenance and care of the microtube on MALIS & RHOTON Bipolar Irrigation Forceps.

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.



NEUROSURGERY  
MICROSURGERY

# COAGULATORS FORCEPS, MONOPOLAR

---



---

<b>29-1001</b>	FRAZIER Cautery Cord, with plug to fit standard Bovie.		
Length		12'	(3.66m)

---



---

<b>29-1002</b>	BUCY-FRAZIER Cautery Cord		
Length		11'	(3.35m)

---



---

<b>29-1003</b>	FRAZIER Cautery Cord, with plug to fit CSV Bovie.		
Length		12'	(3.66m)

---



---

<b>29-1013</b>	POP PEN Cautery Cord		
Length		11'	(3.35m)

---

# COAGULATORS FORCEPS, MONOPOLAR

---

**30-1257** CUSHING Monopolar Forceps, bayonet, with insulation.  
Working distance 3" (76mm)  
Tip width 1.5mm  
Length 7<sup>3</sup>/<sub>4</sub>" (197mm)

---



---

DAVIS Monopolar Forceps, bayonet.  
Working distance 3<sup>3</sup>/<sub>4</sub>" (95mm)  
Tip width 1.5mm  
Length 6<sup>1</sup>/<sub>2</sub>" (165mm)

**30-1240** Forceps only  
**30-1243** Forceps with insulation

---



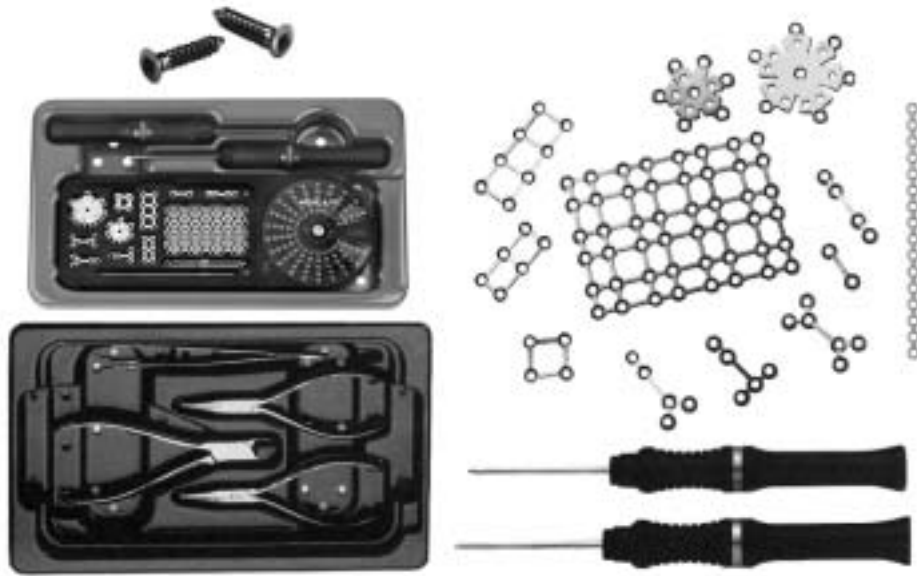
---

**30-1161** JANSEN Monopolar Forceps, bayonet, with insulation.  
Working distance 3<sup>3</sup>/<sub>4</sub>" (95mm)  
Tip width 1.5mm  
Length 8<sup>3</sup>/<sub>4</sub>" (222mm)

---



# CRANIAL FIXATION BIOPLATE



**1.5mm** BIOPLATE Neurosurgery Fixation System.  
Designed for neurosurgeons.

	Code #	Description
<b>Plates</b>		
1 pkg. of 5 ea.	<b>81-2000</b>	Straight, 2 Hole, Bar, 11mm
1 pkg. of 1 ea.	<b>81-2001</b>	Straight, 4 Hole, Bar, 19mm
1 pkg. of 1 ea.	<b>81-2002</b>	Y Plate, 5 Hole, Bar, 18mm
1 pkg. of 1 ea.	<b>81-2003</b>	X Plate, 6 Hole, Bar, 17mm
1 pkg. of 1 ea.	<b>81-2004</b>	T Plate, 5 Hole, Bar, 15mm
1 pkg. of 1 ea.	<b>81-2005</b>	Burr Cover, 6 Hole, 12mm, Flat-Rigid
1 pkg. of 1 ea.	<b>81-2006</b>	Burr Cover, 6 Hole, 18mm, Flat-Rigid
1 pkg. of 1 ea.	<b>81-2053</b>	Contoured Flexible Burr Hole Cover, 12mm
1 pkg. of 1 ea.	<b>81-2054</b>	Contoured Flexible Burr Hole Cover, 18mm
1 pkg. of 1 ea.	<b>81-2055</b>	Contoured Rigid Burr Hole Cover, 12mm
1 pkg. of 1 ea.	<b>81-2056</b>	Contoured Rigid Burr Hole Cover, 18mm
1 pkg. of 1 ea.	<b>81-2007</b>	Box Car, 4 Hole, 10 x 10mm
1 pkg. of 1 ea.	<b>81-2008</b>	Box Car, 6 Hole, 8 x 17mm
1 pkg. of 1 ea.	<b>81-2009</b>	Box Car, 8 Hole, 10 x 24mm
1 pkg. of 1 ea.	<b>81-2010</b>	Lattice, 48 Hole, 32 x 44mm
1 pkg. of 1 ea.	<b>81-3018</b>	Straight, 2 Hole, Bar, 11mm
1 pkg. of 1 ea.	<b>81-3059</b>	8 Hole Orbital Plate
1 pkg. of 1 ea.	<b>81-3060</b>	16 Hole Straight Plate
1 pkg. of 1 ea.	<b>81-3180</b>	Shunt Burr Hole Cover, 1.5mm
<b>Self Drilling Screws</b>		
1 pkg. of 1 ea.	<b>81-2057</b>	Self Drilling Screw, 1.5mm x 3mm
1 pkg. of 1 ea.	<b>81-2058</b>	Self Drilling Screw, 1.5mm x 4mm
1 pkg. of 1 ea.	<b>81-2059</b>	Self Drilling Screw, 1.5mm x 5mm
1 pkg. of 5 ea.	<b>81-3087</b>	Self Drilling Screw, 1.5mm x 3mm
1 pkg. of 5 ea.	<b>81-3088</b>	Self Drilling Screw, 1.5mm x 4mm
1 pkg. of 5 ea.	<b>81-3089</b>	Self Drilling Screw, 1.5mm x 5mm
1 pkg. of 1 ea.	<b>81-3095</b>	1.5mm Self-Drilling Screw Insert
<b>Standard Screws</b>		
1 pkg. of 5 ea.	<b>81-2011</b>	1.5mm screw-3mm
1 pkg. of 5 ea.	<b>81-2012</b>	1.5mm screw-4mm
1 pkg. of 5 ea.	<b>81-2013</b>	1.5mm screw-5mm
1 pkg. of 5 ea.	<b>81-2014</b>	1.5mm screw-6mm
1 pkg. of 5 ea.	<b>81-2015</b>	1.5mm screw-8mm
1 pkg. of 5 ea.	<b>81-2016</b>	1.5mm screw-10mm
1 pkg. of 5 ea.	<b>81-2017</b>	1.8mm screw-Emergency
1 pkg. of 1 ea.	<b>81-3011</b>	1.5mm screw-3mm
1 pkg. of 1 ea.	<b>81-3012</b>	1.5mm screw-4mm
1 pkg. of 1 ea.	<b>81-3013</b>	1.5mm screw-5mm
1 pkg. of 1 ea.	<b>81-3014</b>	1.5mm screw-6mm
1 pkg. of 1 ea.	<b>81-3015</b>	1.5mm screw-8mm
1 pkg. of 1 ea.	<b>81-3016</b>	1.5mm screw-10mm
1 pkg. of 1 ea.	<b>81-3017</b>	1.8mm screw-Emergency

Code #	Description
<b>81-2021</b>	1.5mm Screwdriver with Blade, Std.
<b>81-2027</b>	1.5mm Screwdriver Blade, Std.
<b>81-3100</b>	1.5mm Screwdriver with Blade, Large
<b>81-3101</b>	1.5mm Screwdriver Blade, Large
<b>81-2022</b>	Plate Bender
<b>81-2023</b>	Plate Cutter-Med.
<b>81-2024</b>	Forceps Angled
<b>81-3105</b>	Plate and Screw Container
<b>81-3119</b>	Sterilizing Container-Neuro

#### Instruments

1 ea.	<b>81-2021</b>	1.5mm Screwdriver with Blade, Std.
1 ea.	<b>81-2027</b>	1.5mm Screwdriver Blade, Std.
1 ea.	<b>81-3100</b>	1.5mm Screwdriver with Blade, Large
1 ea.	<b>81-3101</b>	1.5mm Screwdriver Blade, Large
1 ea.	<b>81-2022</b>	Plate Bender
1 ea.	<b>81-2023</b>	Plate Cutter-Med.
1 ea.	<b>81-2024</b>	Forceps Angled
1 ea.	<b>81-3105</b>	Plate and Screw Container
1 ea.	<b>81-3119</b>	Sterilizing Container-Neuro

#### Drill Bits

1 ea.	<b>81-2018</b>	Drill Bit, 1.0mm, 4mm, standard low speed drill
1 ea.	<b>81-2019</b>	Drill Bit, 1.0mm, 6mm, standard low speed drill
1 ea.	<b>81-2020</b>	Drill Bit, 1.0mm, 10mm, standard low speed drill
1 ea.	<b>81-3067</b>	Drill Bit, 1.0mm, 4mm handpieces
1 ea.	<b>81-3068</b>	Drill Bit, 1.0mm, 6mm handpieces
1 ea.	<b>81-3069</b>	Drill Bit, 1.0mm, 10mm handpieces
1 ea.	<b>81-3061</b>	Drill Bit, 1.0mm, 4mm craniotomes
1 ea.	<b>81-3062</b>	Drill Bit, 1.0mm, 6mm craniotomes
1 ea.	<b>81-3063</b>	Drill Bit, 1.0mm, 10mm craniotomes
1 ea.	<b>81-3073</b>	Drill Bit, 1.0mm, 4mm long hand drill
1 ea.	<b>81-3074</b>	Drill Bit, 1.0mm, 6mm long hand drill
1 ea.	<b>81-3077</b>	Drill Bit, 1.0mm, 4mm Midas Rex Classic
1 ea.	<b>81-3078</b>	Drill Bit, 1.0mm, 6mm Midas Rex Classic
1 ea.	<b>81-3079</b>	Drill Bit, 1.0mm, 10mm Midas Rex Classic
1 ea.	<b>81-3083</b>	Drill Bit, 1.0mm, 4mm Midas Rex III
1 ea.	<b>81-3084</b>	Drill Bit, 1.0mm, 6mm Midas Rex III

#### BIO-100 Set

1 ea.	<b>81-2027</b>	BIO-100 Screw Driver Blade, STD
1 ea.	<b>81-3175</b>	BIO-100 1.5mm Tray Insert
5 ea.	<b>81-3164</b>	BIO-100 Screws, 1.5mm x 4.5mm
1 ea.	<b>81-3165</b>	BIO-100 Screws, 1.5mm x 4.5mm
5 ea.	<b>81-3135</b>	BIO-100 Two Hole Plate
1 ea.	<b>81-3131</b>	BIO-100 Two Hole Plate



# CRANIAL FIXATION BIOPLATE



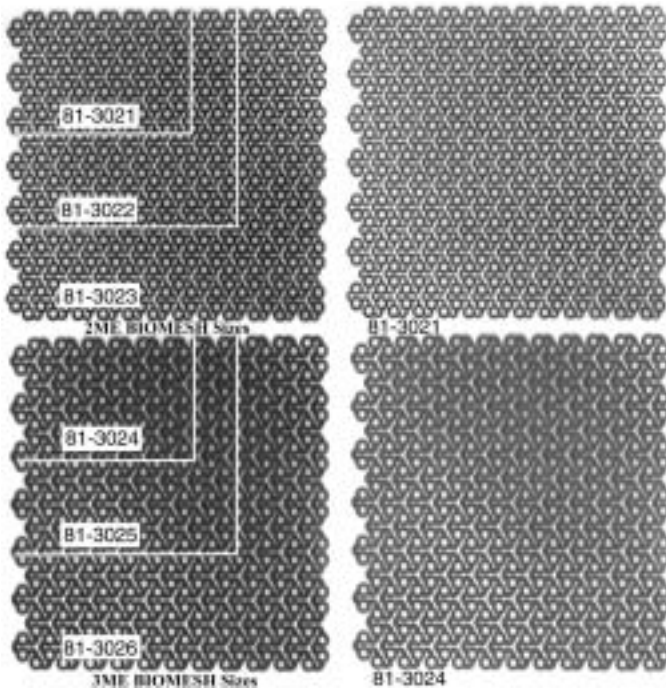
**1.9mm BIOPLATE Neurosurgery Fixation System.**  
Designed for neurosurgeons.

	Code #	Description
<b>Plates</b>		
1 pkg. of 5 ea.	<b>81-3027</b>	Straight Plate, 2 hole, 12mm
1 pkg. of 1 ea.	<b>81-3028</b>	Straight Plate, 4 hole, 20mm
1 pkg. of 1 ea.	<b>81-3029</b>	Y Plate, 5 Hole, 19mm
1 pkg. of 1 ea.	<b>81-3030</b>	X Plate, 6 Hole, 18mm
1 pkg. of 1 ea.	<b>81-3031</b>	T Plate, 5 Hole, 16mm
1 pkg. of 1 ea.	<b>81-3032</b>	Burr Hole Cover, 6 Hole, 12mm, Flat - Rigid
1 pkg. of 1 ea.	<b>81-3033</b>	Burr Hole Cover, 6 Hole, 18mm, Flat - Rigid
1 pkg. of 1 ea.	<b>81-2046</b>	Contoured Flexible Burr Hole Cover, 12mm
1 pkg. of 1 ea.	<b>81-2047</b>	Contoured Flexible Burr Hole Cover, 18mm
1 pkg. of 1 ea.	<b>81-2048</b>	Contoured Rigid Burr Hole Cover, 12mm
1 pkg. of 1 ea.	<b>81-2049</b>	Contoured Rigid Burr Hole Cover, 18mm
1 pkg. of 1 ea.	<b>81-3034</b>	Boxcar Plate, 4 Hole, 11 x 11mm
1 pkg. of 1 ea.	<b>81-3035</b>	Boxcar Plate, 6 Hole, 9 x 18mm
1 pkg. of 1 ea.	<b>81-3036</b>	Boxcar Plate, 8 Hole, 11 x 25mm
1 pkg. of 1 ea.	<b>81-3048</b>	Straight Plate, 2 Hole, 12mm
1 pkg. of 1 ea.	<b>81-3161</b>	Straight Plate, 16 Hole, 1.9mm
1 pkg. of 1 ea.	<b>81-3181</b>	Shunt Burr Hole Cover, 1.9mm
<b>Standard Drilling Screws</b>		
1 pkg. of 5 ea.	<b>81-3037</b>	1.9mm screw-3mm long
1 pkg. of 5 ea.	<b>81-3038</b>	1.9mm screw-4mm long
1 pkg. of 5 ea.	<b>81-3039</b>	1.9mm screw-5mm long
1 pkg. of 5 ea.	<b>81-3040</b>	1.9mm screw-6mm long
1 pkg. of 5 ea.	<b>81-3041</b>	1.9mm screw-8mm long
1 pkg. of 5 ea.	<b>81-3042</b>	1.9mm screw-10mm long
1 pkg. of 5 ea.	<b>81-3043</b>	2.3mm screw-5mm long Emergency
1 pkg. of 1 ea.	<b>81-3049</b>	1.9mm screw-3mm long
1 pkg. of 1 ea.	<b>81-3050</b>	1.9mm screw-4mm long
1 pkg. of 1 ea.	<b>81-3051</b>	1.9mm screw-5mm long
1 pkg. of 1 ea.	<b>81-3052</b>	1.9mm screw-6mm long
1 pkg. of 1 ea.	<b>81-3053</b>	1.9mm screw-8mm long
1 pkg. of 1 ea.	<b>81-3054</b>	1.9mm screw-10mm long
1 pkg. of 1 ea.	<b>81-3055</b>	2.3mm screw- 5mm long Emergency
<b>Self Drilling Screws</b>		
1 pkg. of 1 ea.	<b>81-2050</b>	Self Drilling Screw, 1.9mm x 3mm
1 pkg. of 1 ea.	<b>81-2051</b>	Self Drilling Screw, 1.9mm x 4mm
1 pkg. of 1 ea.	<b>81-2052</b>	Self Drilling Screw, 1.9mm x 5mm
1 pkg. of 5 ea.	<b>81-3091</b>	Self Drilling Screw, 1.9mm x 3mm
1 pkg. of 5 ea.	<b>81-3092</b>	Self Drilling Screw, 1.9mm x 4mm
1 pkg. of 5 ea.	<b>81-3093</b>	Self Drilling Screw, 1.9mm x 5mm
1 pkg. of 1 ea.	<b>81-3096</b>	1.9mm Self-Drilling Screw Insert

	Code #	Description
<b>Instruments</b>		
1 ea.	<b>81-3046</b>	1.9mm Screwdriver with Blade, Std.
1 ea.	<b>81-2034</b>	1.9mm Screwdriver Blade, Std.
1 ea.	<b>81-3102</b>	1.9mm Screwdriver with Blade, Large
1 ea.	<b>81-3103</b>	1.9mm Screwdriver Blade, Large
1 ea.	<b>81-2022</b>	Plate Bender
1 ea.	<b>81-2023</b>	Plate Cutter-Medium
1 ea.	<b>81-2024</b>	Forceps Angled
1 ea.	<b>81-3109</b>	Plate and Screw Container
1 ea.	<b>81-3119</b>	Sterilizing Container
<b>Drill Bits</b>		
1 ea.	<b>81-2033</b>	Drill bit 1.5mm, 4mm, standard low speed drill
1 ea.	<b>81-3044</b>	Drill bit 1.5mm, 6mm, standard low speed drill
1 ea.	<b>81-3045</b>	Drill bit 1.5mm, 10mm, standard low speed drill
1 ea.	<b>81-3070</b>	Drill bit 4.5mm, long handpieces
1 ea.	<b>81-3071</b>	Drill bit 6mm long handpieces
1 ea.	<b>81-3072</b>	Drill bit 10mm long handpieces
1 ea.	<b>81-3064</b>	Drill bit 4.5mm long craniotomes
1 ea.	<b>81-3065</b>	Drill bit 6mm long craniotomes
1 ea.	<b>81-3066</b>	Drill bit 10mm long craniotomes
1 ea.	<b>81-3075</b>	Drill bit 4.5mm long hand drill
1 ea.	<b>81-3076</b>	Drill bit 6mm long hand drill
1 ea.	<b>81-3080</b>	Drill bit 4.5mm long Midas Rex Classic
1 ea.	<b>81-3081</b>	Drill bit 6mm long Midas Rex Classic
1 ea.	<b>81-3082</b>	Drill bit 10mm long Midas Rex Classic
1 ea.	<b>81-3085</b>	Drill bit 4.5mm long Midas Rex III
1 ea.	<b>81-3086</b>	Drill bit 6mm long Midas Rex III
<b>BIO-100 Set</b>		
1 ea.	<b>81-2033</b>	BIO-100 Drill Bit 1.5mm x 4mm
1 ea.	<b>81-2034</b>	BIO-100 Screw Driver Blade 2mm
1 ea.	<b>81-2035</b>	BIO-100 Tray Insert
1 ea.	<b>81-3019</b>	BIO-100 Screw 1.9mm x 4.5mm
5 ea.	<b>81-2036</b>	BIO-100 Screws, 2mm x 4mm
1 ea.	<b>81-3020</b>	BIO-100 Two Hole Plate
5 ea.	<b>81-2037</b>	BIO-100 Two Hole Plate

NEUROSURGERY  
MICROSURGERY

# CRANIAL FIXATION BIOPLATE



## BIOPLATE BIOMESH

### 2ME BIOMESH

Thickness: 0.4mm

Screw diameters: 1.5mm to 2.0mm

Technical Data: Grade 4 Titanium (ASTM F-67)

<b>81-3021</b>	overall dimensions	33x48mm
<b>81-3022</b>	overall dimensions	60x60mm
<b>81-3023</b>	overall dimensions	85x90mm
<b>81-3140</b>	overall dimensions	132x134mm

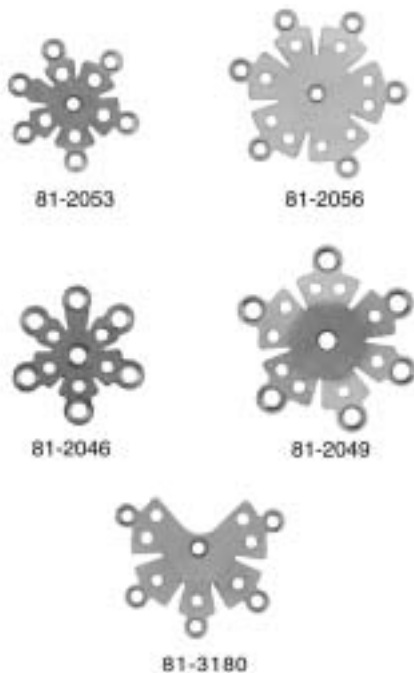
### 3ME BIOMESH

Thickness: 0.6mm

Screw diameters: 1.5mm to 2.0mm

Technical Data: Grade 4 Titanium (ASTM F-67)

<b>81-3024</b>	overall dimensions	36x52mm
<b>81-3025</b>	overall dimensions	65x65mm
<b>81-3026</b>	overall dimensions	90x92mm
<b>81-3141</b>	overall dimensions	127x131mm



The BIOPLATE Neurosurgery Fixation System now offers eight new Contoured Burr Hole Covers (BHC) for cranial flap closure. The new BHC's are available in flexible or rigid configurations and pre-contoured to the natural curvature of the skull. The BHC's are made from the highest medical grade titanium, providing maximum strength and biocompatibility.

### 1.9mm Contoured Burr Hole Covers

<b>81-2046</b>	Flexible	12mm
<b>81-2047</b>	Flexible	18mm
<b>81-2048</b>	Rigid	12mm
<b>81-2049</b>	Rigid	18mm
<b>81-3181</b>	Shunt Burr Hole Cover	

### 1.5mm Contoured Burr Hole Covers

<b>81-2053</b>	Flexible	12mm
<b>81-2054</b>	Flexible	18mm
<b>81-2055</b>	Rigid	12mm
<b>81-2056</b>	Rigid	18mm
<b>81-3180</b>	Shunt Burr Hole Cover	

# CRANIAL FIXATION BIOPLATE

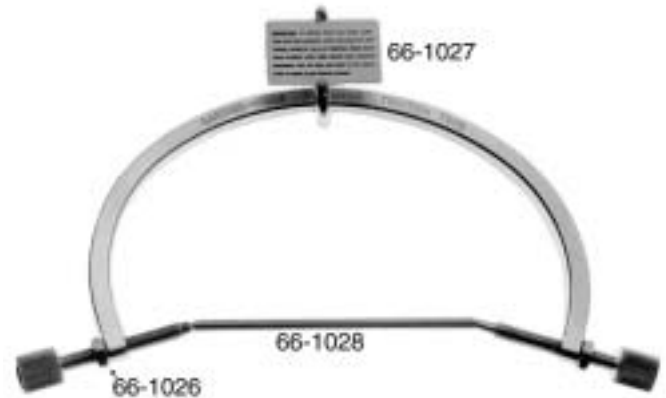
The BIOPLATE Large Screwdriver was designed to be used with the BIOPLATE 1.5mm and 1.9mm standard or self drilling screws, offering maximum insertion torque while minimizing hand fatigue.

- 81-3100** 1.5mm Large Screwdriver with blade
- 81-3101** 1.5mm Large Screwdriver blade
- 81-3102** 1.9mm Large Screwdriver with blade
- 81-3103** 1.9mm Large Screwdriver blade



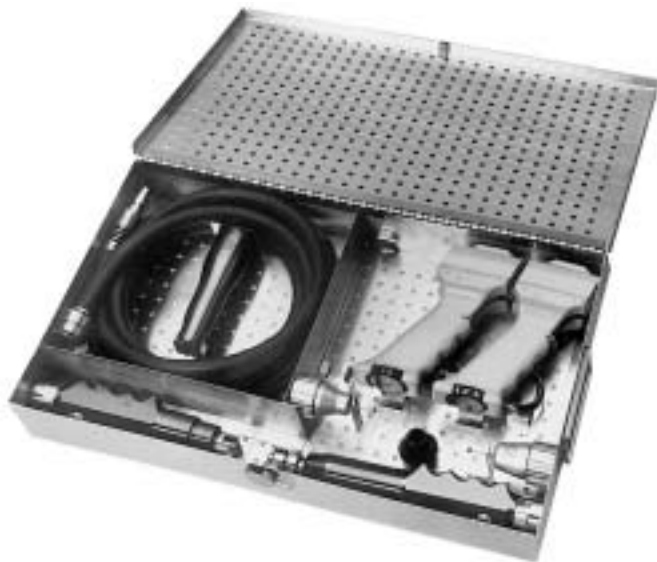
# CRANIAL STABILIZATION SKULL TONGS

- 66-1025** GARDNER-WELLS Skull Tongs with one spring-loaded point for cervical traction. Maximum opening 6¼" (159mm)
- 66-1026** Adjustment nut (sold each).
- 66-1027** S-Hook
- 66-1028** Test Bar

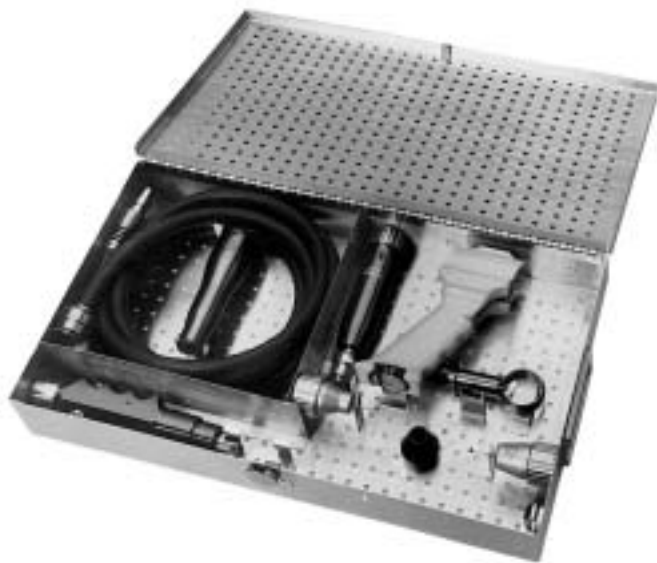


# CRANIOTOME AIR

---



- 
- 26-5030** CPS Unitized Air Craniotome Set  
Includes the following:
- 26-5000** Modular Air Driver, Complete
  - 26-5001** 1,000 RPM Unitized, Air Driver, Complete
  - 26-5003** Swiveling Dura Guard
  - 26-5004** Wire Pass Drill Guard
  - 26-5008** Fixed Dura Guard
  - 26-5009** Skull Perforator Guard
  - 26-5012** Stabilizing Handle
  - 26-5007** Air Hose, 10 Feet
  - 26-5015** Sterilizing Case
  - 26-5015** CODMAN Power Systems Sterilizing Case, stainless steel, holds either a Unitized or Modular Air Craniotome Set
- |        |      |        |
|--------|------|--------|
| Length | 17½" | (44cm) |
| Width  | 10"  | (25cm) |
| Depth  | 2½"  | (6cm)  |
- 



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

# CRANIOTOME DRIVERS

---

<b>26-5000</b>	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

---



---

<b>26-5001</b>	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

---



---

<b>26-5002</b>	CODMAN 1,000 RPM Modular Attachment. Locks onto the Air Driver (26-5000).	
Length	4"	(102mm)
Weight	14 oz.	(397 gm)
No load speed		1,000 rpm

---



NEUROSURGERY  
MICROSURGERY

# CRANIOTOME DRIVER ACCESSORIES

---



---

**26-1230** The CODMAN CRANIOTOMY KIT, sterile, disposable.  
Consists of one each:  
CODMAN Disposable Perforator  
CODMAN Cranioblade  
CODMAN Wire Pass Drill

---



---

**26-1221** CODMAN Disposable Perforator  
Single use, sterile, always sharp, disposable perforator. Designed for use in perforating the cranium.

---



# CRANIOTOME DRIVER ACCESSORIES

---

	CODMAN 100,000 RPM Air Drill Burr Guards
26-5021	Medium
26-5022	Long
26-5023	CODMAN, calibrated in centimeters.

---



26-5021



26-5022



26-5023

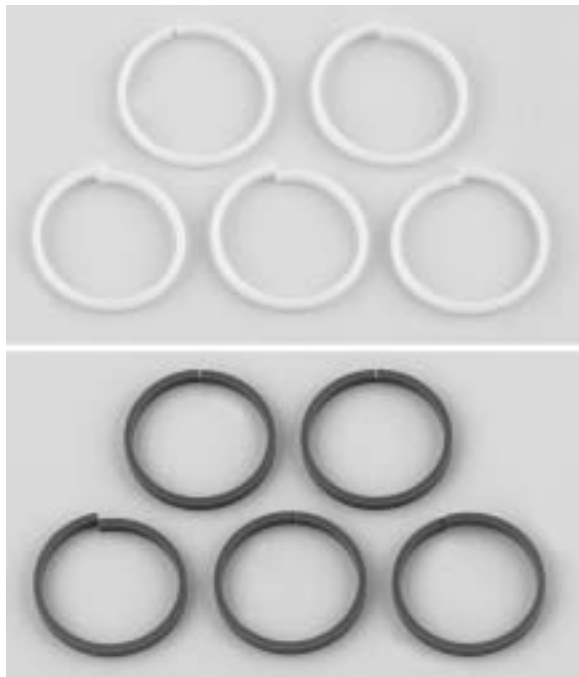
26-5024	CODMAN Coaxial Air Hose, 100,000 RPM only.
Length	10 (3.0m)

---



# CRANIOTOME DRIVER ACCESSORIES

---



---

**26-5010** CODMAN Dura Guard Compression Ring, white. Five per package.

**26-5011** CODMAN Modular Attachment Compression Ring, blue. Five per package.

---



---

**26-1246** CODMAN Cranio-blade. Sterile, disposable, package of five.

---



# CRANIOTOME DRIVER ACCESSORIES

- 
- 26-5003** CODMAN Swiveling Dura Guard, rotates 360°  
**26-5008** CODMAN Dura Guard, fixed stem.
- 



- 
- 26-5009** CODMAN Skull Perforator Guard
- 



NEUROSURGERY  
MICROSURGERY

- 
- 26-5004** CODMAN Wire Pass Drill Guard
- 



# CRANIOTOME DRIVER ACCESSORIES

---



---

**26-5012** CODMAN Stabilizing Handle, to be used with 26-5002, 1,000 RPM Modular Attachment.

---



---

**26-5007** CODMAN Coaxial Air Hose, recommended for use with CODMAN Air Powered Equipment.  
Length 10 (3.0m)

---



---

**26-5026** CODMAN Lubricant. Recommended for use with CODMAN Powered Instrument. Sold one each.

---

# CRANIOTOME DRIVER ACCESSORIES

---

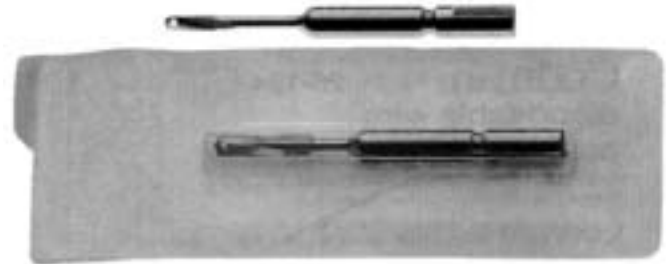
**26-5006** CODMAN Nitrogen Regulator. Recommended for use with CODMAN Air Power System, includes color-coded pressure ranges marked on dial.

---

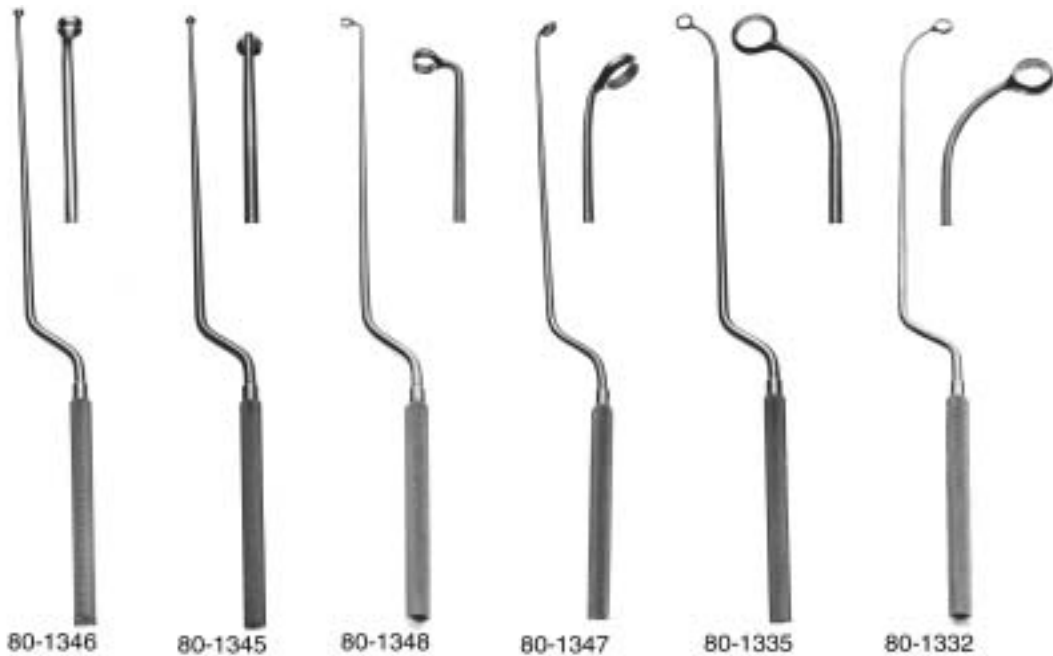


**26-1247** CODMAN Wire Pass Drill, sterile. Disposable. Five per package.

---



# CURETTES



HARDY Curettes, bayonet.		
Working distance	4¾"	(120mm)
Total length	9½"	241mm)
Type		Tip Width
<b>80-1346</b>	Angled up	3mm
<b>80-1331</b>	Angled up	5mm
<b>80-1345</b>	Angled down	3mm
<b>80-1330</b>	Angled down	5mm
<b>80-1348</b>	90° Left	3mm
<b>80-1333</b>	90° Left	5mm
<b>80-1347</b>	45° Right	3mm
<b>80-1334</b>	45° Right	5mm
<b>80-1335</b>	Curved left	5mm
<b>80-1332</b>	Curved right	5mm

To determine proper orientation, flat portion of handle should face table.

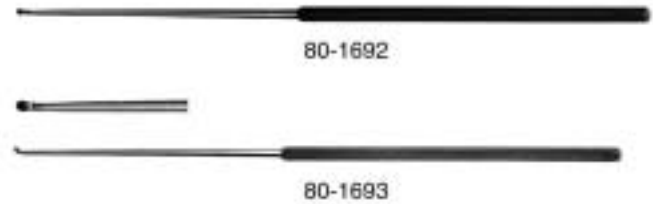


<b>80-1536</b>	MALIS Curette, bayonet, TITANIUM handle, stainless steel shaft.	
Working distance	4"	(102mm)
Tip width		2mm
Length	8"	(203mm)

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

# CURETTES

	RHOTON Currettes, Titanium		
<b>80-1692</b>	Length	7½"	(191mm)
	No. 13 straight		
	Tip width		1.6mm
<b>80-1693</b>	No. 14, 25° angle		
	Tip width		1.4mm



NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

# DISPOSABLES ANEUROPLASTIC

**43-1060** ANEUROPLASTIC\* Kit, two complete sets consists of two bags sterile powder (net weight 30 grams each), two ampules sterile liquid (net contents 17 milliliters each), and two sterile matrix bags.



NEUROSURGERY  
MICROSURGERY

# DISPOSABLES CRANIOPLASTIC

---



---

**43-1050** CRANIOPLASTIC\* Kit, two complete sets, consists of two bags sterile powder (net weight 30 grams each), two vials sterile liquid (net contents 17 milliliters each) and two sterile matrix bags.

---



---

**43-1006** SPENCE Cranioplastic Roller

---

# DISPOSABLES TITANIUM MESH

**43-1007** CARBORUNDUM Grinding Wheel, Jacobs fitting.



**43-1022** TITANIUM Mesh  
Sterile  
Titanium Mesh is indicated for use with methyl methacrylate formulated for cranioplasty.  
Size 6"x 6" (15cm x 15cm)  
Wire diameter .010" (31g)  
Mesh per inch 24 x 24



# DISPOSABLES CRANIO-BLADES

**26-1246** CODMAN Cranio-blade. Sterile, disposable, package of five.



NEUROSURGERY  
MICROSURGERY

# DISPOSABLES WIRE PASS DRILLS

---



---

**26-1247** CODMAN Wire Pass Drill, sterile. Disposable.  
Five per package.

---

# DISPOSABLES MARKING PENS

---



---

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

---



---

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

---



# DISPOSABLES PRESERVE

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



# DISPOSABLES SPONGES

CODMAN Surgical Patties, sterile, X-ray detectable, 10 patties per package, 20 packages per dispenser box.

<b>80-1396</b>	5/16" Round	.79cm
<b>80-1397</b>	1/4" x 1 1/2"	.64cm x 3.81cm
<b>80-1398</b>	1/4" x 3"	.64cm x 3.81cm
<b>80-1399</b>	1/4" x 1/4"	.64cm x .64cm
<b>80-1400</b>	1/2" x 1/2"	1.27cm x 1.27cm
<b>80-1401</b>	3/4" x 3/4"	1.91cm x 1.91cm
<b>80-1402</b>	1/2" x 1"	1.27cm x 2.54cm
<b>80-1403</b>	1" x 1"	2.54cm x 2.54cm
<b>80-1404</b>	1/2" x 1 1/2"	1.27cm x 3.81cm
<b>80-1405</b>	1 1/2" x 1 1/2"	3.81cm x 3.81cm
<b>80-1406</b>	1/2" x 2"	1.27cm x 5.08cm
<b>80-1407</b>	1/2" x 3"	1.27cm x 7.62cm
<b>80-1408</b>	1" x 3"	2.54cm x 7.62cm
<b>80-1409</b>	3" x 3"	7.62cm x 7.62cm



NEUROSURGERY  
MICROSURGERY

# DISPOSABLES SPONGES



CODMAN Surgical Strips, sterile,  
X-ray detectable, 10 strips per package,  
20 packages per dispenser box.

<b>80-1449</b>	1/8" x 6"	(3 x 152mm)
<b>80-1450</b>	1/4" x 6"	(6 x 152mm)
<b>80-1451</b>	1/2" x 6"	(13 x 152mm)
<b>80-1452</b>	3/4" x 6"	(19 x 152mm)
<b>80-1453</b>	1" x 6"	(25 x 152mm)
<b>80-1454</b>	1 1/2" x 6"	(38 x 152mm)
<b>80-1455</b>	2" x 6"	(51 x 152mm)
<b>80-1456</b>	3" x 6"	(76 x 152mm)
<b>80-1457</b>	3 1/2" x 6"	(89 x 152mm)



**80-1460** BICOL\* Collagen Sponge, sterile.  
The BICOL Sponges are 3" (76mm) x 4"  
(102mm) and packaged individually sterile,  
sold ten packages per box.

# DISPOSABLES PERFORATOR

---

**26-1230** The CODMAN CRANIOTOMY KIT, sterile, disposable.  
Consists of one each:  
CODMAN Disposable Perforator  
CODMAN Cranioblade  
CODMAN Wire Pass Drill

---



---

**26-1221** CODMAN Disposable Perforator  
Single use, sterile, always sharp, disposable perforator. Designed for use in perforating the cranium.

---



NEUROSURGERY/  
MICROSURGERY

# DISPOSABLES SCALP CLIPS

---



- 
- 20-1032** LEROY Scalp Clips, sterile, disposable, plastic.  
Adult  
10 clips/package  
20 packages/case  
20-5117 LEROY Clip Applying Forcep.
- 20-1035** Infant size  
10 clips/package  
20 packages/case  
Use with 20-5120 LEROY Clip Applying Forcep.
- 



- 
- 20-1034** LEROY-RANEY Scalp Clips, sterile, disposable, plastic.  
10 clips/package  
20 packages/case  
Use with 20-5117 LEROY Clip Applying Forcep.
- 



- 
- 20-1025** RANEY Scalp Clips  
Stainless steel.  
12 clips/package  
RANEY Scalp Clips
- 20-1037** Sterile, disposable, plastic.  
10 clips/package  
20 packages/case
- 

Use with 20-5115 RANEY Clip Applying Forcep.

---

# DISPOSABLES SCALP CLIP APPLIERS

CODMAN DISPOSABLE SCALP CLIP APPLIER, sterile, single use system designed to permit rapid application of scalp clips to the scalp flap for hemostasis during a craniotomy procedure. The applier is designed for one hand use with 12 pre-loaded Leroy-Raney design clips which are easily removed with specially designed CODMAN Disposable Scalp Clip Removal Forceps.

**20-1038** CODMAN Disposable Scalp Clip Applier (10 per box)

**20-1039** CODMAN Disposable Scalp Clip Removal Forceps



**20-5117** LeROY Scalp Clip Applying Forceps Adult size for use with 20-1032 or 20-1034 LeROY clips.

Length 7¼" (184mm)

**20-5120** Infant size for use with 20-1035 Infant LeROY clips.

Length 7¼" (184mm)



**20-5115** RANEY Scalp Clip Applying Forceps, use with 20-1037 or 20-1025 RANEY clips.

Length 6¼" (159mm)



NEUROSURGERY  
MICROSURGERY

# DISSECTORS




---

	MAGNAFREE™ MRI Penfield Dissectors	
	Non-Magnetic dissectors (titanium) for	
	Interventional MRI. MRI safe up to 1.5 Tesla.	
<b>65-2402</b>	No. 1	Broad curved dissector, and sharp round spoon, double ended Length 7" (178mm)
<b>65-2403</b>	No. 2	Slightly curved dissector, and wax packer, double ended Length 7¾" (197mm)
<b>65-2404</b>	No. 3	Full curved dissector and wax packer, double ended Length 7¾" (197mm)
<b>65-2405</b>	No. 4	Slightly curved dissector, light Length 8¼" (210mm)
<b>65-2406</b>	No. 5	Slightly curved blunt dissector, double ended Length 11½" (272mm)

---

# DISSECTORS BAYONET




---

	HARDY Knife Handle, bayonet.	
	Working distance	4¾" (121mm)
	Total length	9½" (241mm)
<b>80-1313</b>	Vertical	
<b>80-1314</b>	Lateral	

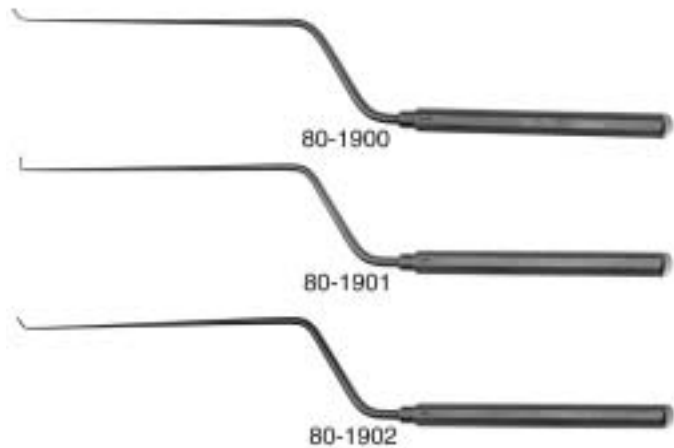
---

# DISSECTORS BAYONET

	HARDY Micro Dissector, bayonet.		
	Working distance	4¾"	(120mm)
	Length	9½"	(241mm)
	Type		Tip Width
<b>80-1315</b>	Angled up		2mm
<b>80-1316</b>	Angled down		2mm



	SPETZLER Neuro-Vascular Dissectors Titanium, bayonet		
	Length	9½"	(241mm)
	Working distance	4"	(100mm)
<b>80-1900</b>	Small Teardrop, angled up 30°		
<b>80-1901</b>	Small Teardrop, angled up 90°		
<b>80-1902</b>	Small Spatula, angled up 30°		



NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

# DISSECTORS STRAIGHT

<b>80-1535</b>	MALIS Dissector, angled, curved edge, semi-sharp, TITANIUM handle, stainless steel shaft.		
	Tip width		3.2mm
	Length	7⅞"	(187mm)
<b>80-1539</b>	MALIS Dissector, angled, sharp on three sides, TITANIUM handle, stainless steel shaft.		
	Tip width		1.3mm
	Length	7⅞"	(187mm)
	MALIS Dissectors, angled, round, TITANIUM handle, stainless steel shaft.		
	Length	7⅞"	(187mm)
<b>80-1540</b>	Tip width		2mm
<b>80-1541</b>	Tip width		1mm
<b>80-1542</b>	Tip width		3.5mm



NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

# DISSECTORS STRAIGHT

---




---

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

---



65-1015



65-1016



65-1017



65-1018



65-1019

---

**65-1015** PENFIELD Dissectors  
 Broad curved dissector, and sharp round spoon,  
 double-ended.  
 Length 7" (178mm)

**65-1016** Slightly curved dissector, and wax packer,  
 double-ended.  
 Length 7¾" (197mm)

**65-1017** Full curved dissector and wax packer, double-  
 ended.  
 Length 7¾" (197mm)

**65-1018** Slightly curved dissector, light.  
 Length 8¼" (210mm)

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

---



# DISSECTORS STRAIGHT

**80-1660** RHOTON Micro Dissection Set is designed for use during aneurysm or tumor dissections, and has particular application for acoustic neuromas. The dissectors are manufactured from lightweight titanium for balance and durability. (Replaces 80-1695.)

RHOTON Micro Dissectors and Case  
Includes:

- A. **80-1680** Round Dissector, small, #1, 1.3mm tip
  - B. **80-1681** Round Dissector, medium, #2, 2.3mm tip
  - C. **80-1682** Round Dissector, large, #3, 3.3mm tip
  - D. **80-1683** General Purpose Elevator, small, #4
  - E. **80-1684** General Purpose Elevator, large, #5
  - F. **80-1685** Spatula Dissector, small, #6, 1.1mm tip
  - G. **80-1686** Spatula Dissector, medium, #7, 1.7mm tip
  - H. **80-1687** Spatula Dissector, large, #8, 2.1mm tip
  - I. **80-1688** Semi-Sharp Hook, 90°, #9
  - J. **80-1689** Blunt Hook, 90°, #10
  - K. **80-1690** Semi-Sharp Hook, 45°, #11
  - L. **80-1691** Straight Point Needle, #12
  - M. **80-1692** Micro Curette, small, #13
  - N. **80-1693** Micro Curette, large, #14
  - O. **80-1679** Teardrop Dissector Str., #15
  - P. **80-1696** Teardrop Dissector, 90°, #16, 3mm tip
  - Q. **80-1697** Teardrop Dissector, 90°, #17, 5mm tip
  - R. **80-1698** Teardrop Dissector, 40°, #18, 4mm tip
  - S. **80-1699** Teardrop Dissector, 40°, #19, 8mm tip
- 80-1661** Sterilizing-Carrying Case



# DISSECTORS STRAIGHT



<b>80-1691</b>	RHOTON #12 Straight Point Needle, semi-sharp, TITANIUM.		
	Tip width		.8mm
	Length	7½"	(191mm)

NOTE: See back of NEUROSURGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

# DRILLS/BURRS/GUIDES



<b>15-1010</b>	ADSON Perforating Burr, four bladed.		
	Diameter	9/16"	(14mm)
	Length	3¾"	(95mm)



	CUSHING Burrs		
<b>15-1000</b>	Diameter	3/8"	(10mm)
	Length	3½"	(89mm)
<b>15-1001</b>	Diameter	5/8"	(15mm)
	Length	3¾"	(95mm)
<b>15-1002</b>	Diameter	¾"	(20mm)
	Length	4"	(102mm)



	CUSHING Perforator Drills		
<b>26-1000</b>	Diameter	3/8"	(9mm)
	Length	4"	(102mm)
<b>26-1001</b>	Diameter	½"	(13mm)
	Length	4"	(102mm)
<b>26-1002</b>	Diameter	5/8"	(16mm)
	Length	4"	(102mm)



<b>26-1008</b>	RANEY Perforator Drill with adjustable depth guard.		
	Diameter	½"	(13mm)
	Length	4"	(102mm)

# DRILLS/BURRS/GUIDES

**15-1004** McKENZIE Enlarging Burr  
 Diameter  $\frac{1}{16}$ " (17mm)  
 Length 5" (127mm)



**26-1004** McKENZIE Perforator Drill, high-speed steel.  
 Diameter  $\frac{1}{2}$ " (13mm)  
 Length  $3\frac{3}{4}$ " (94mm)



**26-1088** MATHEWS Hand Drill, with knurled shank and rotating head, supplied with one each size MATHEWS Drill points.  
 Length of handle  $4\frac{1}{2}$ " (114mm)  
 MATHEWS Drill Points

**26-1180** Diameter 4mm  
 Length  $1\frac{1}{4}$ " (32mm)

**26-1181** Diameter 6mm  
 Length  $1\frac{7}{8}$ " (48mm)

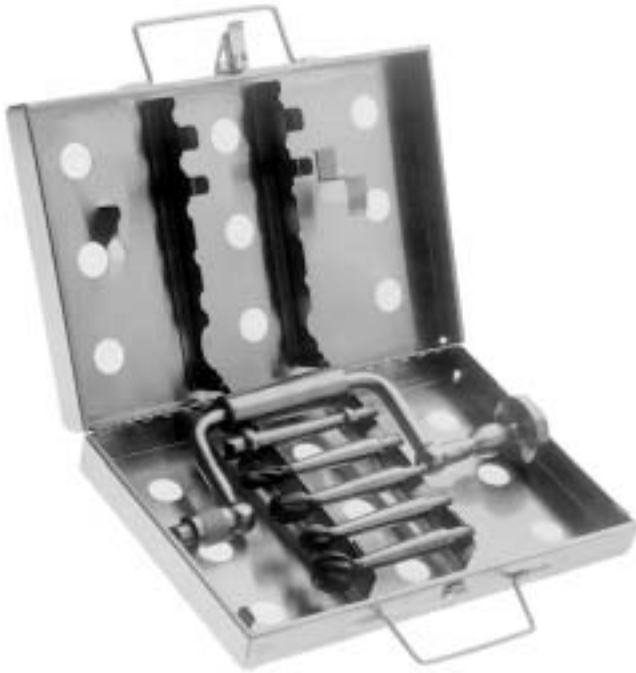


**26-1006** D'ERRICO Perforator Drill and Enlarging Burr  
 Diameter  $\frac{5}{8}$ " (16mm)  
 Length  $3\frac{5}{8}$ " (92mm)



# DRILLS/BURRS/GUIDES

---



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



- 
- 26-1041** HUDSON Brace, with snap-lock chuck.  
Length 9 $\frac{3}{4}$ " (248mm)
- 



- 
- 80-1002** HUDSON Cerebellar Extension  
Length 4" (102mm)
-

# DRILLS/BURRS/GUIDES

HUDSON Burrs			
<b>15-1005</b>	Diameter	3/8"	(10mm)
	Length	4"	(102mm)
<b>15-1006</b>	Diameter	9/16"	(14mm)
	Length	4"	(102mm)
<b>15-1007</b>	Diameter	5/8"	(16mm)
	Length	4"	(102mm)
<b>15-1008</b>	Diameter	7/8"	(22mm)
	Length	4"	(102mm)



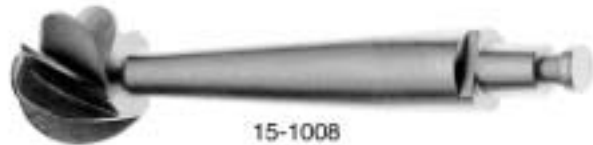
15-1005



15-1006



15-1007



15-1008

<b>26-1045</b>	DEPTH Check Drill, supplied with six drills.		
	Length	2 3/4"	(70mm)
<b>26-1046</b>	TWIST Drill for 26-1045		
	Diameter	1/16"	(2mm)
	Length	2 1/4"	(57mm)



# DRILLS/BURRS/GUIDES

---



**26-1080** BUNNEL Hand Drill with Jacobs chuck.  
Chuck size  $\frac{5}{32}$ " (4mm)

---



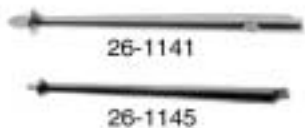
**26-1085** CHILDREN'S HOSPITAL Hand Drill, hexagonal handle, supplied with three (26-1086) twist drills.  
Handle length  $4\frac{1}{8}$ " (105mm)  
Twist Drill diameter (4.2mm)

---



**26-1086** TWIST DRILL for 26-1085  
Diameter  $\frac{3}{16}$ " (4.2mm)  
Length  $3\frac{1}{4}$ " (83mm)

---



CRUTCHFIELD Drill Points  
**26-1141** Small Tip Diameter 2.4mm  
**26-1142** Large Tip Diameter 3mm  
**26-1145** RANEY-CRUTCHFIELD Drill Point  
Tip Diameter .8mm

---



**14-1000** ADSON Drill Guide and Dura Protector, Angled on side with hole in jaw.  
Jaw length  $\frac{3}{4}$ " (19mm)  
Hole diameter  $\frac{1}{8}$ " (3mm)  
Total length 6" (152mm)

---

# ELEVATORS

**65-2549** CARROLL Periosteal Elevator, double-ended.  
 Blade width  $\frac{1}{8}$ " (3mm)  
 Blade width  $\frac{3}{8}$ " (10mm)  
 Length  $5\frac{1}{2}$ " (140mm)



**65-1047** CUSHING Little Joker Periosteal Elevators  
 Hollow handle  
 Blade width  $\frac{1}{4}$ " (6mm)  
 Length 6" (152mm)



**65-1048** Solid handle  
 Blade width  $\frac{1}{4}$ " (6mm)  
 Length  $7\frac{1}{2}$ " (191mm)



**65-1045** CUSHING Staphylorrhaphy Elevators  
 Blade width  $\frac{1}{4}$ " (6mm)  
 Round handle Length  $8\frac{1}{2}$ " (216mm)



**65-1075** CUSHING Periosteal Elevators, sharp, wide.  
 Rounded edge  
 Blade width  $\frac{5}{8}$ " (16mm)  
 Length  $7\frac{1}{4}$ " (184mm)

**65-1076** Square edge  
 Blade width  $\frac{5}{8}$ " (16mm)  
 Length  $7\frac{1}{4}$ " (184mm)

NEUROSURGERY  
MICROSURGERY

# ELEVATORS



**65-1092** CUSHING Periosteal Elevator, sharp, narrow, Gutsch handle.  
 Blade width  $\frac{3}{16}$ " (5mm)  
 Length  $7\frac{5}{8}$ " (194mm)



**65-1115** LANGENBECK Periosteal Elevators  
 Narrow  
 Blade width  $\frac{1}{4}$ " (6mm)  
 Length  $8\frac{1}{4}$ " (206mm)



**65-1116** Wide  
 Blade width  $1\frac{1}{16}$ " (17mm)  
 Length  $7\frac{1}{2}$ " (191mm)



MAGNAFREE™ MRI Langenbeck Periosteal Elevators  
 Non-Magnetic Elevators (titanium) for Interventional MRI. MRI safe up to 1.5 Tesla

**65-2409** MRI Langenbeck Periosteal Elevator  
 Narrow  
 Blade Width  $\frac{1}{4}$ " (6mm)  
 Length  $8\frac{1}{4}$ " (206mm)

**65-2410** MRI Langenbeck Periosteal Elevator  
 Wide  
 Blade Width  $1\frac{1}{16}$ " (17mm)  
 Length  $7\frac{1}{2}$ " (191mm)



MAGNAFREE™ MRI Woodson Elevator and Spatula  
 Non-Magnetic (titanium) for Interventional MRI. MRI safe up to 1.5 Tesla.

**65-2423** MRI Woodson Elevator and Spatula, double-ended, semi-sharp  
 Blade Width  $\frac{1}{8}$ " (3mm)  
 Blade Depth  $\frac{1}{2}$ " (13mm)  
 Total Length 10" (254mm)



# ELEVATORS

	MALIS Elevators, TITANIUM handles, stainless steel shafts.		
<b>80-1537</b>	Straight, curved tip		
	Tip width		3.5mm
	Length	7¼"	(184mm)
<b>80-1538</b>	Bayonet, curved tip		
	Working distance	4"	(102mm)
	Tip width		3.5mm
	Length	8"	(203mm)



	PRESBYTERIAN HOSPITAL Staphylorrhaphy Elevators, double-ended, semi-sharp and sharp blades.		
	Blade width		(4mm)
	Length	7"	(178mm)
<b>65-1005</b>	Straight		
<b>65-1006</b>	Curved		



	RHOTON General Purpose Elevators, straight, blunt, TITANIUM.		
	Length	7½"	(191mm)
<b>80-1683</b>	Angular, No. 4		
	Tip width		1.2mm
<b>80-1684</b>	Curved, No. 5		
	Tip width		2.2mm



NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

<b>65-1008</b>	SUNDAY Staphylorrhaphy Elevator, blunt, slightly curved.		
	Blade width		(3mm)
	Length	9"	(229mm)



# ENDOSCOPY

---



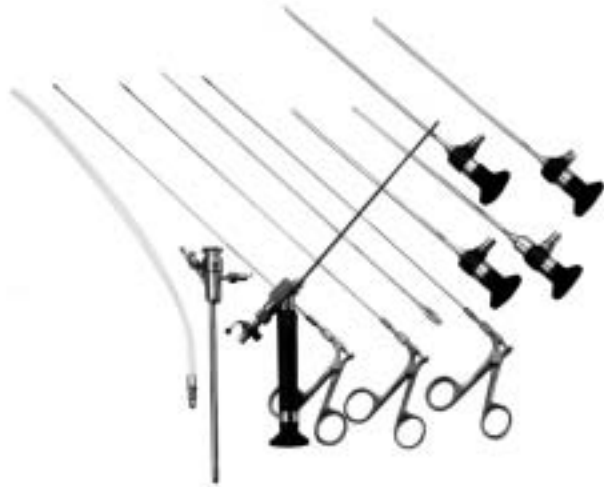
- 
- 83-1353** CODMAN Rigid Endoscope Holder  
This holder has an I.D. of 8.01mm with two additional sleeves, 6.51mm and 5.7mm I.D.; it is designed for use with the following Stabilization Products:
- 50-4581** BOOKWALTER™ Table Post  
**50-4554** BOOKWALTER Post Coupling  
**50-4582** BOOKWALTER Horizontal Flex Bar  
**50-4552** BOOKWALTER Horizontal Bar
- The CODMAN Rigid Endoscope Holder is designed for the following CODMAN Rigid Endoscopes:
- 83-1540** GAAB Neuroendoscope System
- 



- 
- 83-1352** CODMAN Steerable Endoscope Holder  
A table mounted fixation device designed for use with the CODMAN Steerable Neuroendoscope (83-1340).  
The following Stabilization Products are required:
- 50-4581** BOOKWALTER™ Table Post  
**50-4554** BOOKWALTER Post Coupling  
**50-4582** BOOKWALTER Horizontal Flex Bar, or  
**50-4552** BOOKWALTER Horizontal Bar
-

GAAB Neuroendoscope System is designed for diagnostic orientation within the ventricular system, and therapeutic procedures such as ventriculostomies, biopsies, and removal of cysts, tumors, and other obstructions.

- 83-1540** GAAB Neuroendoscope System  
Includes:
- \*83-1520** HOPKINS® Operating Telescope, Straight Forward, 0°  
With angled eyepiece, wide angle lens, instrument channel and fiberoptic connector. Two fiberoptic adapters included to allow connection of various standard fiberoptic cables.
- 83-1521** Operating Sheath, 6.5mm  
With obturator and ports for irrigation tube and for suction. (Barb fittings also included for use with nonluer suction connections.)
- 83-1522** Telescope Bridge, required for use with diagnostic telescopes (Catalog No. 83-1523 through 83-1528)
- \*83-1523** HOPKINS Diagnostic Telescope, Straight Forward, 0°, autoclavable, color-coded green, 4mm
- \*83-1524** HOPKINS Diagnostic Telescope, Forward Oblique, 30°, autoclavable, color-coded red, 4mm
- \*83-1527** HOPKINS Diagnostic Telescope, Lateral, 70°, non-autoclavable, color-coded yellow, 4mm
- \*83-1528** HOPKINS Diagnostic Telescope, Retrospective, 120°, non-autoclavable, color-coded white, 4mm
- 83-1529** Grasping Forceps with Teeth, 5Fr.
- 83-1530** Grasping Forceps, Pointed, with Tooth, 5Fr.
- 83-1531** Biopsy Forceps, 5Fr.
- 83-1534** Injection Needle, 5Fr.
- 83-1538** Irrigation Tube, 6Fr.
- 83-1573** Protection Tube, 1 each (GAAB Neuroendoscope System supplied with 5) (not shown)
- 83-1539** Storage Case (not shown)



\*Shipped in Protection Tube 83-1573

- 83-1372** Flexible-Endoscopic Grasping Forceps, 1mm
- 83-1373** Flexible-Endoscopic Biopsy Forceps, 1mm



# ENDOSCOPY

---



**83-1340** CODMAN STEERABLE Neuroendoscope  
 Combines a high quality fiberoptic image with the flexibility and steerability required for many neuroendoscopic applications. High quality fiberoptics provide a 5-50mm depth of field. A 90° field of view in air , 64° field of view in water delivers enhanced imaging for diagnostic and therapeutic procedures. Working length of 38cm, working channel of 3 Fr. (1mm), steerability affords scope tip articulation of 100°/ 160° for enhanced maneuverability around anatomical structures.

Kit includes:

- 83-1341** CODMAN STEERABLE Endoscope Tester
- 83-1342** CODMAN STEERABLE Endoscope Vent Cap
- 83-1343** CODMAN STEERABLE Endoscope Brushes (10/Pack)

Accessories available:

- 83-1367** ME<sup>2</sup>® (Micro Endoscopic Electrode)
  - 83-1372** CODMAN Flexible Endoscopic Grasping Forceps, 1mm Tip
  - 83-1373** CODMAN Flexible Endoscopic Biopsy Forceps, 1mm Tip
  - 83-1325** CODMAN Peel-Away Catheter Introducer, 12.5 Fr., Sterile, 10/Box
  - 83-1326** CODMAN Peel-Away Catheter Introducer, 14.0 Fr., Sterile, 10/Box
  - 83-1302** CODMAN Irrigation Adapter, Sterile, 10/Box
  - 83-1374** WELCH ALLYN VDX-300 Imaging & Illumination Platform
- 



EPIC MICROVISION Semi-Flexible Endoscope Kit

The EPIC MICROVISION Semi-Flexible Endoscope is a sterile, light-weight stylet-like instrument with irrigation.

- 83-1360** EPIC MICROVISION Semi-Flexible Endoscope Cannula O.D. 1.8 mm Fiber bundle O.D. 1mm  
 Accessories:
  - 83-1357** Coupler (required for use of endoscope kit)
  - 83-1356** ACMI light cable (1mm light bundle)
  - 83-1355** Eye Piece (required for B-Mount Cameras)
-

## CODMAN WELCH ALLYN VDX-300 Illumination & Imaging Platform

A compact light source with a proximal camera, which can be attached to a variety of rigid or flexible scopes. System setup is simple and convenient because both light and video are combined in a single package.

System Includes:

- Platform box with internal light source and camera processor
- Proximal camera assembly
- Optical Coupler
- Fiber Optic light bundle
- Fiber Optic scope adapters
- Video Cables (Composite and S-Video)
- Spare lamp
- Instruction Manual



## CODMAN WELCH ALLYN VDX-300 Illumination & Imaging Platform

- 83-1374 NTSC
- 83-1375 PAL (International)
- 83-1378 Replacement Bulb

- 83-1367 ME<sup>2</sup>® Micro Endoscopic Electrode with cable  
The ME<sup>2</sup>® (Micro Endoscope Electrode) is a flexible electrosurgical instrument designed for use with either flexible or rigid endoscopes having operating channels of 3 french (1mm) or larger. Multiple settings for optimal results. Monopolar Cable length 60cm. Deliver precise monopolar cutting, fenestration and dissection during endoscopic procedures. Sterile, single-use product includes ME<sup>2</sup>, disposable Touhy-Borst adaptor and Monopolar Cable.



# ENDOSCOPY

---



---

**83-1368** EPIC Bipolar Forceps  
Sterile, Disposable Bipolar Coagulation Device. Has 2.5mm diameter insulated shaft with a 26cm working length.

---



---

**83-1302** CODMAN NEUROGUIDE Irrigation Adaptor. Touhy Borst Adaptor with a side port. Converts the single port of the CODMAN Steerable Endoscope (83-1340) into two ports for irrigation or aspiration of the operation channel while using instrumentation. Sterile. 10/case.

---



---

**83-1335** NEUROGUIDE\* Sterilizing Tray  
Used in sterilization/storage of the CODMAN Steerable Endoscope (83-1340).

---

**83-1371** Slit Ventricular Catheter  
 Pre-slit HOLTER® design ventricular catheter for endoscopic shunt placement. Barium-impregnated radiopaque silicone tubing with multiple tip perforations. I.D. 1.5mm, O.D. 3mm, length 15cm  
 X-ray detectable dots: one dot at 5cm from the tip, two dots at 10cm from the tip  
 Packaged sterile.  
 Use with the EPIC MICROVISION Semi-Flexible Endoscope Kit (83-1360) for shunt placement system.



## FORCEPS BIPOLAR

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



**80-2947** CODMAN Non-Stick Mirror Finish Trigeminal Bipolar Forceps, bayonet, Titanium.  
 Working distance 3½" (89mm)  
 Tip width .4mm  
 Length 7⅝" (186mm)  
 45° Angled up  
**80-2948** 45° Angled down



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



**NEUROSURGERY  
MICROSURGERY**

# FORCEPS BIPOLAR



	CUSHING Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		1.65mm
	Length	7"	(178mm)
<b>80-2925</b>	Forceps only		
<b>80-2920</b>	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)
<b>80-2962</b>	Fine	Tip width	.3mm
<b>80-2963</b>	Regular	Tip width	1mm



<b>80-2924</b>	GERALD Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		.9mm
	Length	7"	(178mm)



	GREENWOOD Non-Stick Mirror Finish Bipolar and Suction Forceps, bayonet.		
	Working distance	3¼"	(83mm)
	Tip width		1.75mm
	Length	7½"	(191mm)
<b>80-2983</b>	Forceps		
<b>80-2984</b>	Forceps with insulation		



<b>80-2911</b>	HARDY Non-Stick Mirror Finish Bipolar Forceps, bayonet.		
	Working distance	4¾"	(121mm)
	Tip width		.7mm
	Length	8¼"	(210mm)
<b>80-3060</b>	HARDY Non-Stick Mirror Finish Insulated Bipolar Forceps, bayonet.		
	Working distance	4¾"	(121mm)
	Tip width		.7mm
	Length	8¼"	(210mm)



# FORCEPS BIPOLAR

	IRIS Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		.6mm
<b>80-2965</b>	Length	3 <sup>5</sup> / <sub>8</sub> "	(92mm)
<b>80-2966</b>	Curved		



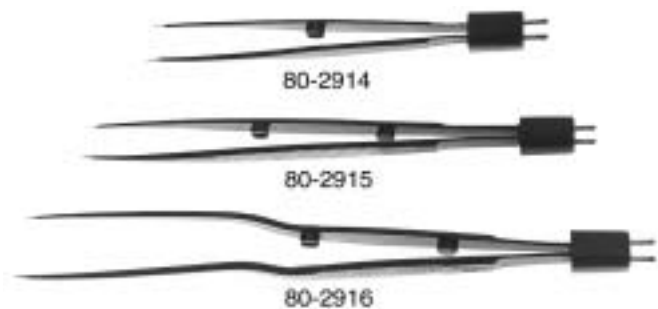
<b>80-2926</b>	JEWELERS #5 Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		.35mm
	Length	4 <sup>3</sup> / <sub>8</sub> "	(111mm)



	MALIS Non-Stick Mirror Finish Bipolar Forceps, straight, TITANIUM.		
<b>80-2940</b>	Length	6"	(152mm)
	Fine	Tip width	.4mm
<b>80-2945</b>	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.		
<b>80-2914</b>	Straight		
	Tip width	.2mm	
	Length	5 <sup>1</sup> / <sub>2</sub> "	(140mm)
<b>80-2915</b>	Straight		
	Tip width	.2mm	
	Length	6 <sup>3</sup> / <sub>4</sub> "	(172mm)
<b>80-2916</b>	Bayonet		
	Tip width	.2mm	
	Length	7 <sup>3</sup> / <sub>4</sub> "	(197mm)



NEUROSURGERY  
MICROSURGERY

# FORCEPS BIPOLAR



<b>80-2923</b>	MALIS-JENSEN Non-Stick Mirror Finish Bipolar Forceps, bayonet.		
	Working distance	4"	(101mm)
	Tip width		.25mm
	Length	7½"	(191mm)



<b>80-2991</b>	MALIS-JENSEN Non-Stick Mirror Finish Insulated Forceps, bayonet.		
	Tip width		.5mm
	Length	7½"	(191mm)



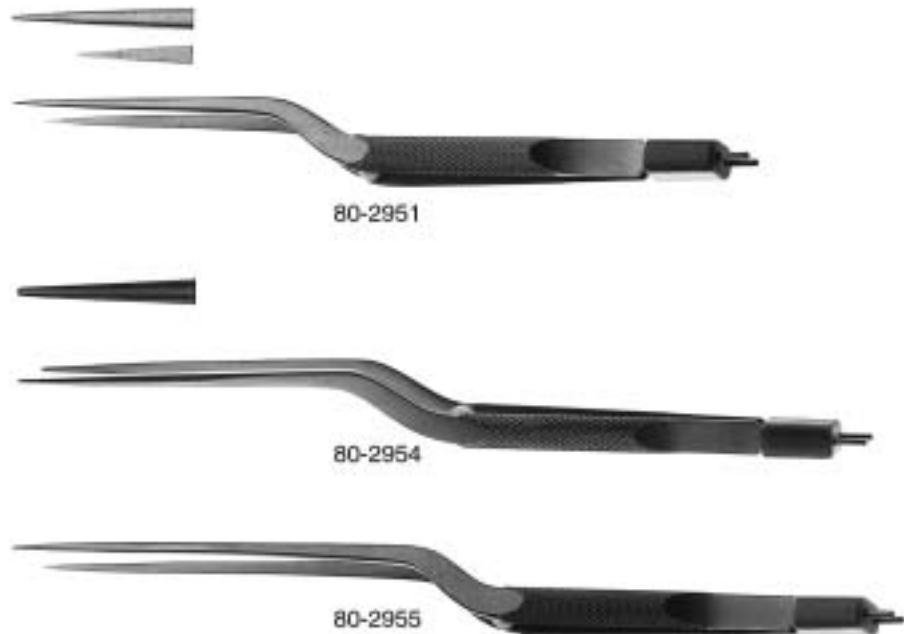
<b>80-2922</b>	MALIS Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width		.75mm
	Length	5"	(140mm)



	MALIS Non-Stick Mirror Finish Bipolar Forceps, bayonet.		
	Working distance	3¼"	(83mm)
	Tip width		1.5mm
	Length	7"	(178mm)
<b>80-2912</b>	Forceps only		
<b>80-2921</b>	Forceps with insulation		

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

# FORCEPS BIPOLAR



	RHOTON Non-Stick Mirror Finish Bipolar Forceps, bayonet, TITANIUM		
	Working distance	3½"	(89mm)
	Length	8¼"	(210mm)
<b>80-2951</b>	Fine	Tip width	.45mm
<b>80-2952</b>	Regular	Tip width	1mm
	Working distance	4"	(102mm)
	Length	9"	(229mm)
<b>80-2953</b>	Fine	Tip width	.5mm
<b>80-2954</b>	Regular	Tip width	1mm
	Working distance	4¾"	(120mm)
	Length	9¾"	(248mm)
<b>80-2955</b>	Fine	Tip width	.7mm

	RHOTON Bipolar Forceps, bayonet, TITANIUM.		
	Working distance	3¾"	(95mm)
	Length	8⅞"	(225mm)
<b>80-2956</b>	Fine	Tip width	.5mm
<b>80-2957</b>	Medium	Tip width	.7mm
<b>80-2958</b>	Regular	Tip width	1.0mm
<b>80-2959</b>	Large	Tip width	1.5mm

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

	RHOTON Non-Stick Mirror Finish Bipolar Forceps, straight, TITANIUM.		
	Length	7"	(178mm)
<b>80-2949</b>	Fine	Tip width	.45mm
<b>80-2950</b>	Regular	Tip width	1mm



NEUROSURGERY  
MICROSURGERY

# FORCEPS BIPOLAR

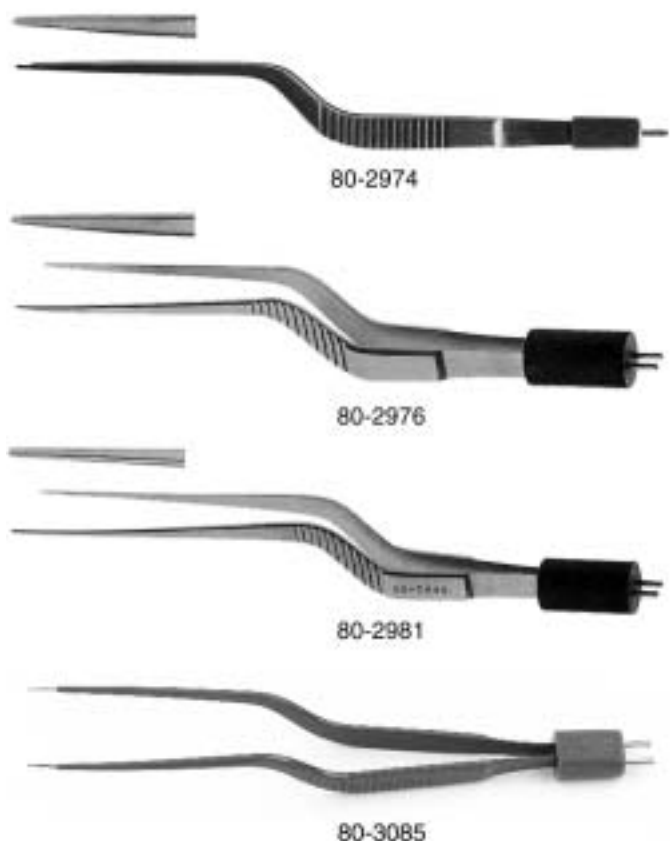


SPETZLER Non-Stick Mirror Finish Neuro-Vascular Bipolar Forceps Titanium, bayonet			
Length	9 <sup>7</sup> / <sub>8</sub> "	(251mm)	
Working distance	4"	(100mm)	
Tip size			
<b>80-2960</b>	Bipolar Forceps,	straight tip	.9mm
<b>80-2961</b>	Bipolar Forceps,	30° angled tip	.9mm

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.



<b>80-2967</b>	STANDARD Non-Stick Mirror Finish Bipolar Forceps, straight.		
	Tip width	.5mm	
	Length	3 <sup>5</sup> / <sub>8</sub> "	(92mm)



YASARGIL Non-Stick Mirror Finish Bipolar Forceps, bayonet.			
	Working distance	2 <sup>1</sup> / <sub>2</sub> "	(64mm)
	Length	6 <sup>3</sup> / <sub>4</sub> "	(171mm)
<b>80-2972</b>	Fine	Tip width	.5mm
<b>80-2973</b>	Medium	Tip width	.7mm
<b>80-2974</b>	Regular	Tip width	1mm
	Working distance	3"	(76mm)
	Length	7 <sup>1</sup> / <sub>4</sub> "	(184mm)
<b>80-2975</b>	Fine	Tip width	.5mm
<b>80-2976</b>	Medium	Tip width	.7mm
<b>80-2977</b>	Regular	Tip width	1mm
<b>80-2978</b>	Large	Tip width	1.3mm
	Working distance	4"	(102mm)
	Length	8 <sup>1</sup> / <sub>4</sub> "	(210mm)
<b>80-2979</b>	Fine	Tip width	.5mm
<b>80-2980</b>	Medium	Tip width	.7mm
<b>80-2981</b>	Regular	Tip width	1mm
<b>80-2982</b>	Large	Tip width	1.3mm

YASARGIL Non-Stick Mirror Finish Insulated Bipolar Forceps, bayonet.			
	Working distance	2 <sup>1</sup> / <sub>2</sub> "	(64mm)
	Length	6 <sup>3</sup> / <sub>4</sub> "	(171mm)
<b>80-3084</b>	Medium	Tip width	.7mm
<b>80-3085</b>	Regular	Tip width	1mm
	Working distance	4"	(102mm)
	Length	8 <sup>1</sup> / <sub>4</sub> "	(210mm)
<b>80-3086</b>	Large	Tip width	1.3mm

# FORCEPS BIPOLAR INSULATED

## New Codman Non Stick Mirror Finish Bipolar Insulated Forceps

Code #	Description	Style	Length	Alloy	Tip Size	Type
80-2985	Malis	Bayonet	8¾"	Titanium	.25mm	Irrigating
80-2986	Malis	Bayonet	8¾"	Titanium	.5mm	Irrigating
80-2987	Malis	Bayonet	8¾"	Titanium	.1mm	Irrigating
80-2988	Malis	Bayonet	8¾"	Titanium	.1.5mm	Irrigating
80-2989	Malis	Bayonet	8¾"	Titanium	.5mm	Irrigating
80-2990	Malis	Bayonet	7¾"	Titanium	1.5mm	Irrigating
80-2991	Malis-Jenson	Bayonet	7½"	Titanium	.5mm	Irrigating
80-2992	Malis	Bayonet	8¾"	Titanium	.4mm	Irrigating
80-2993	Malis	Bayonet	8¾"	Titanium	1mm	Irrigating
80-2994	Malis	Bayonet	8¾"	Titanium	1.5mm	Irrigating
80-2995	Malis	Straight	6"	Titanium	.4mm fine	Irrigating
80-2996	Malis	Bayonet	10¾"	Titanium	.25mm	Irrigating
80-2997	Malis	Bayonet	10¾"	Titanium	.5mm	Irrigating
80-2998	Malis	Bayonet	10¾"	Titanium	1mm	Irrigating
80-2999	Malis	Bayonet	10¾"	Titanium	1.5mm	Irrigating
80-3050	Malis	Bayonet	8¾"	Titanium	1mm	Irrigating
80-3060	Hardy	Bayonet	8¼"	Titanium	.7mm	Irrigating
80-3062	Rhoton	Bayonet	8¼"	Titanium	.25mm	Irrigating
80-3063	Rhoton	Bayonet	8¼"	Titanium	.5mm	Irrigating
80-3064	Rhoton	Bayonet	8¼"	Titanium	.7mm	Irrigating
80-3065	Rhoton	Bayonet	8¼"	Titanium	1mm	Irrigating
80-3070	Rhoton	Bayonet	9"	Titanium	.25mm	Irrigating
80-3071	Rhoton	Bayonet	9"	Titanium	.5mm	Irrigating
80-3072	Rhoton	Bayonet	9"	Titanium	.7mm	Irrigating
80-3073	Rhoton	Bayonet	9"	Titanium	1mm	Irrigating
80-3076	Rhoton	Bayonet	7"	Titanium	.7mm	Irrigating
80-3077	Rhoton	Bayonet	10¾"	Titanium	.25mm	Irrigating
80-3078	Rhoton	Bayonet	10¾"	Titanium	.5mm	Irrigating
80-3079	Rhoton	Bayonet	10¾"	Titanium	.7mm	Irrigating
80-3080	Rhoton	Bayonet	10¾"	Titanium	1mm	Irrigating
80-3084	Yasargil	Bayonet	6¾"	Titanium	.7mm	Irrigating
80-3085	Yasargil	Bayonet	6¾"	Titanium	1mm	Irrigating
80-3086	Yasargil	Bayonet	8¼"	Titanium	1.3mm	Irrigating

NEUROSURGERY  
MICROSURGERY

# FORCEPS, BIPOLAR IRRIGATING

MALIS Non-Stick Mirror Finish Bipolar Irrigating Forceps, used in conjunction with the Malis Irrigation Module (80-1164)



Code #	Style	Length	Alloy	Tip Configuration	Tip Size
80-1230	Bayonet	8¾" (22.4cm)	Insulated Titanium	Circular Loop	5mm
80-1231	Bayonet	8¾" (22.4cm)	Insulated Titanium	Circular Loop	7mm
80-1232	Bayonet	8¾" (22.4cm)	Insulated Titanium	Circular Loop	10mm
80-2900	Bayonet	8½" (21.8cm)	Insulated Stainless	Straight	0.70mm
80-2901	Bayonet	7¾" (19.7cm)	Insulated Stainless	Straight	1.0mm
80-2902	Bayonet	8½" (21.8cm)	Titanium	Straight	0.50mm
80-2903	Bayonet	7¾" (19.7cm)	Insulated Stainless	Straight	0.25mm
80-2904	Bayonet	8¾" (22.4cm)	Titanium	Straight	1.5mm
80-2905	Bayonet	8¾" (22.4cm)	Titanium	Straight	1.0mm
80-2906	Bayonet	8¾" (22.4cm)	Titanium	Straight	0.25mm
80-2913	Straight	5" (13.9cm)	Insulated Stainless	Straight	0.75mm
80-2917	Straight	5" (13.9cm)	Insulated Stainless	Straight	0.25mm
80-2918	Straight	7" (18cm)	Insulated Stainless	Straight	0.25mm
80-2919	Bayonet	7¾" (19.7cm)	Insulated Stainless	Straight	0.25mm
80-2927	Straight	6" (15.2cm)	Titanium	Straight	0.25mm
80-2928	Straight	6" (15cm)	Titanium	Straight	0.45mm
80-2929	Bayonet	8¾" (22.4cm)	Titanium	Angle Up	0.50mm
80-2930	Bayonet	8¾" (22.4cm)	Titanium	Angle Down	0.50mm
80-2931	Bayonet	8¾" (22.4cm)	Titanium	90° Blunt Curve Up	0.75mm
80-2932	Bayonet	8¾" (22.4cm)	Titanium	90° Blunt Curve Down	0.75mm
80-2985	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Straight	0.25mm
80-2986	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Straight	0.5mm
80-2987	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Straight	1mm
80-2988	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Straight	1.5mm
80-2989	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Angle Up	0.5mm
80-2990	Bayonet	7¾" (19.7cm)	Insulated	Straight	1.5mm
80-2991	Bayonet	7½" (19.1cm)	Insulated	Straight	5mm
80-2992	Bayonet	7½" (19.1cm)	Insulated Titanium	Straight	4mm
80-2993	Bayonet	7½" (19.1cm)	Insulated Titanium	Straight	1mm
80-2994	Bayonet	7½" (19.1cm)	Insulated Titanium	Straight	1.5mm
80-2995	Straight	6" (15cm)	Insulated Titanium	Straight	4mm
80-2996	Irrigating Bayonet	10¾" (27.3cm)	Insulated Titanium	Straight	25mm
80-2997	Irrigating Bayonet	10¾" (27.3cm)	Insulated Titanium	Straight	5mm
80-2998	Irrigating Bayonet	10¾" (27.3cm)	Insulated Titanium	Straight	1mm
80-2999	Irrigating Bayonet	10¾" (27.3cm)	Insulated Titanium	Straight	1.5mm
80-3050	Irrigating Bayonet	8¾" (22.4cm)	Insulated Titanium	Straight Forcep - Duck Billed	1mm

# FORCEPS BIPOLAR IRRIGATING

The nine patterns of RHOTON Bipolar Irrigating Forceps include two bayonet forceps with four tip sizes each, and one straight forceps. The unique feature of these forceps is that the irrigation pipe is completely recessed into the right blade of the forceps. This offers the surgeon increased visibility at the forceps tips. The bayonet pattern are offered in two lengths, short (8cm working distance) and long (9cm working distance), which are needed for superficial and deep operations. Each length is offered with four distal tip widths.



## RHOTON Non-Stick Mirror Finish Bipolar Irrigation Forceps, Titanium

	Working Distance	3.2"	(8cm)
	Length	8¼"	(21cm)
<b>80-2907</b>	Bayonet	Tip Width	0.25mm
<b>80-2933</b>	Bayonet	Tip Width	0.50mm
<b>80-2908</b>	Bayonet	Tip Width	0.70mm
<b>80-2934</b>	Bayonet	Tip Width	1.00mm
	Working Distance	3.7"	(9.5cm)
	Length	9"	(22.5cm)
<b>80-2909</b>	Bayonet	Tip Width	0.25mm
<b>80-2935</b>	Bayonet	Tip Width	0.50mm
<b>80-2910</b>	Bayonet	Tip Width	0.70mm
<b>80-2936</b>	Bayonet	Tip Width	1.00mm
<b>80-2937</b>	Straight Length	7"	(18cm)
		Tip Width	.7mm

**80-1130** Stylets – set of 10/replacements for preventive maintenance and care of the microtube on MALIS & RHOTON Bipolar Irrigation Forceps.



NEUROSURGERY  
MICROSURGERY

# FORCEPS MONOPOLAR CORDS

---




---

<b>29-1001</b>	FRAZIER Cautery Cord, with plug to fit standard Bovie.		
	Length	12'	(3.66m)

---




---

<b>29-1002</b>	BUCY-FRAZIER Cautery Cord		
	Length	11'	(3.35m)

---




---

<b>29-1003</b>	FRAZIER Cautery Cord, with plug to fit CSV Bovie.		
	Length	12'	(3.66m)

---




---

<b>29-1013</b>	POP PEN Cautery Cord		
	Length	11'	(3.35m)

---



# FORCEPS MONOPOLAR

**30-1257** CUSHING Monopolar Forceps, bayonet, with insulation.  
 Working distance 3" (76mm)  
 Tip width 1.5mm  
 Length 7¾" (197mm)



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 ALLIGATOR

**30-4856** DECKER Microsurgical Forceps, alligator action, serrated jaws.  
 Tip width 1.4mm  
 Shaft length 6" (152mm)



# FORCEPS ALLIGATOR



<b>30-1230</b>	HOEN Angular Forceps, alligator action, 1x2 teeth.		
	Tip width		2.2mm
	Shaft length	5½"	(140mm)

# FORCEPS DRESSING



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



<b>30-1191</b>	ADSON Dressing Forceps, bayonet shape.		
	Working distance	3⅝"	(92mm)
	Tip width		2mm
	Length	7½"	191mm



<b>30-1181</b>	BRAIN Dressing Forceps, narrow, serrated.		
	Tip width		1mm
	Length	7"	(178mm)

# FORCEPS DRESSING

	CUSHING Dressing Forceps, serrated, dissecting end.		
	Length	7"	(178mm)
<b>30-1150</b>	Serrated handle	Tip width	1.5mm
<b>30-1151</b>	Gutsch handle	Tip width	1.7mm
<b>30-1152</b>	Serrated handle, fine tip	Tip width	1.3mm



<b>30-1154</b>	CUSHING Dressing Forceps, serrated.		
	Tip width		1.8mm
	Length	7 <sup>3</sup> / <sub>4</sub> "	(197mm)



Tip width is measured 1mm from the instrument tip.

	CUSHING DRESSING Forceps, serrated, bayonet shape, dissecting end.		
	Length	7 <sup>1</sup> / <sub>4</sub> "	(184mm)
<b>30-1155</b>	Working distance	3"	(76mm)
	Tip width		1.8mm
	Length	7 <sup>3</sup> / <sub>4</sub> "	(197mm)
<b>30-1156</b>	Working distance	3 <sup>1</sup> / <sub>2</sub> "	(89mm)
	Tip width		1.4mm



<b>30-1203</b>	D'ERRICO Dressing Forceps, serrated, bayonet shape.		
	Working distance	3 <sup>1</sup> / <sub>4</sub> "	(83mm)
	Tip width		2.1mm
	Length	8 <sup>3</sup> / <sub>4</sub> "	(222mm)



NEUROSURGERY  
MICROSURGERY

# FORCEPS DRESSING



**30-1214** GERALD Dressing Forceps, serrated, straight.  
Tip width 1.1mm  
Length 7" (178mm)



**30-1216** GERALD Dressing Forceps, serrated, bayonet shape.  
Working distance 3½" (89mm)  
Tip width 1.3mm  
Length 7½" (191mm)



**30-1205** HARDY Dressing Forceps, bayonet.  
Working distance 4½" (114mm)  
Tip width 1mm  
Length 8¼" (210mm)



**30-1165** HOEN Dressing Forceps, serrated, bayonet shape. Gutsch handle.  
Working distance 3" (76mm)  
Tip width 2mm  
Length 7¾" (197mm)



JANSEN Dressing Forceps, serrated, bayonet shape.

**30-6995** Working distance 3⅛" (80mm)  
Tip width 2mm  
Length 6½" (165mm)

**30-1160** Working distance 4⅜" (121mm)  
Tip width 1.8mm  
Length 8½" (216mm)

# FORCEPS DRESSING

**80-1732** RHOTON Dressing Forceps, TITANIUM, serrated tips.  
 Tip width 1.8mm  
 Length 7" (178mm)



**30-1180** SEMKEN Dressing Forceps, serrated.  
 Tip width 1.3mm  
 Length 5" (127mm)



# FORCEPS JEWELERS

	JEWELERS Forceps			
<b>30-6712</b>	#3	Length	4 <sup>3</sup> / <sub>4</sub> "	(121mm)
<b>30-6713</b>	#3C	Length	4 <sup>5</sup> / <sub>16</sub> "	(109mm)
<b>30-6714</b>	#4	Length	4 <sup>1</sup> / <sub>4</sub> "	(108mm)
<b>30-6715</b>	#5	Length	4 <sup>5</sup> / <sub>16</sub> "	(109mm)
<b>30-6717</b>	#7 Curved	Length	4 <sup>5</sup> / <sub>8</sub> "	(117mm)



NEUROSURGERY  
MICROSURGERY

# FORCEPS SCALP

---




---

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

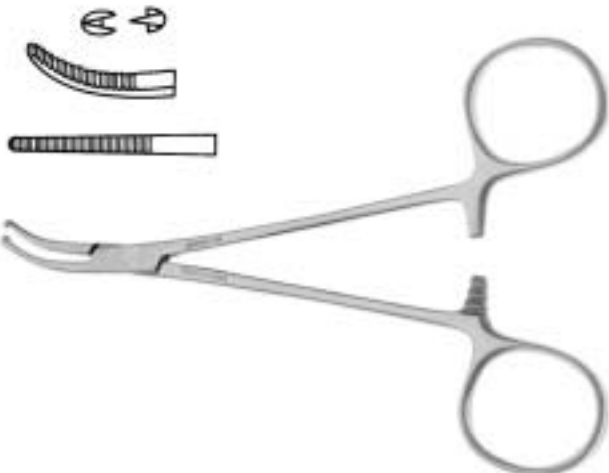
---




---

**30-1115** HOEN Scalp Hemostatic Forceps, serrated, curved on side.  
 Length 5¾" (137mm)

---




---

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

---

# FORCEPS TISSUE

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



CUSHING Tissue Forceps, 1x2 teeth, dissecting end.  
Length 7" (178mm)  
**30-1140** Serrated handle Tip width 1.5mm  
**30-1142** Gutsch handle Tip width 1.7mm  
**30-1143** Gutsch handle, fine tip Tip width 1.3mm



**30-1145** CUSHING Tissue Forceps, 1x2 teeth.  
Tip width 1.6mm  
Length 7 3/4" (197mm)



CUSHING Tissue Forceps, 1x2 teeth, bayonet shape, dissecting end.  
**30-1146** Working distance 3 3/8" (86mm)  
Tip width 1.6mm  
Length 7 1/4" (184mm)  
**30-1147** Working distance 3" (76mm)  
Tip width 1.6mm  
Length 7 3/4" (197mm)



**30-1201** D'ERRICO Tissue Forceps, 1x2 teeth, bayonet shape.  
Working distance 3 3/8" (86mm)  
Tip width 2.4mm  
Length 8 3/4" (222mm)

Tip width is measured 1mm from the instrument tip.

NEUROSURGERY  
MICROSURGERY

# FORCEPS TISSUE

ⓔ Ⓢ



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



**30-1210** GERALD Tissue Forceps, 1x2 teeth, straight.  
Tip width 1.3mm  
Length 7" (178mm)

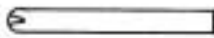


**30-1213** GERALD Tissue Forceps, 1x2 teeth, bayonet shape.  
Working distance 3½" (89mm)  
Tip width 1.3mm  
Length 7½" (191mm)



MAGNAFREE™ MRI Gerald Tissue Forceps, non-magnetic (titanium) for Interventional MRI. MRI safe up to 1.5 Tesla.  
**65-2411** MRI Gerald Tissue Forceps, 1x2 teeth, straight  
Tip Width 1.3mm  
Length 7" (178mm)

ⓔ Ⓢ



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



# FORCEPS TISSUE

<b>30-1170</b>	SEMKEN Tissue Forceps, 1x2 teeth.		
	Tip width		1.3mm
	Length	5"	(127mm)

Tip width is measured 1mm from the instrument tip.



# FORCEPS



<b>30-1000</b>	ADSON Hypophyseal Forceps, bayonet shape.		
	Cup I.D.	1/4"	(6mm)
	Working distance	4 1/2"	(114mm)
	Total length	9"	(229mm)
	Straight		

<b>30-1117</b>	BRIGHAM Brain Tumor Forceps		
	Diameter of ring jaw	3/8"	(10mm)
	Length	7 3/8"	(187mm)



<b>30-2540</b>	CARROLL Tendon Pulling Forceps		
	Shaft length	5"	(127mm)
	Total length	7 1/2"	(191mm)



NEUROSURGERY  
MICROSURGERY

# FORCEPS

---



---

<b>80-1654</b>	WILLIAMS Dissectomy Forceps, single-toothed cup.		
	Bit size		2mm
	Length	5½"	(140mm)

---



---

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

---



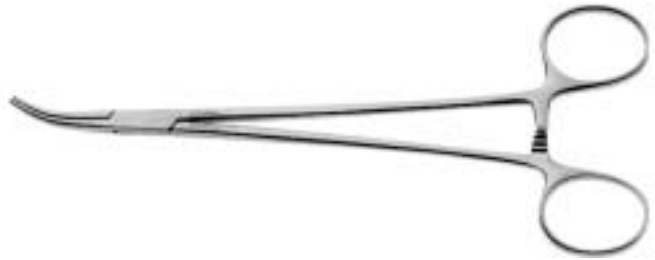
---

<b>30-1230</b>	HOEN Angular Forceps, alligator action, 1x2 teeth.		
	Tip width		2.2mm
	Shaft length	5½"	(140mm)

---

# FORCEPS

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



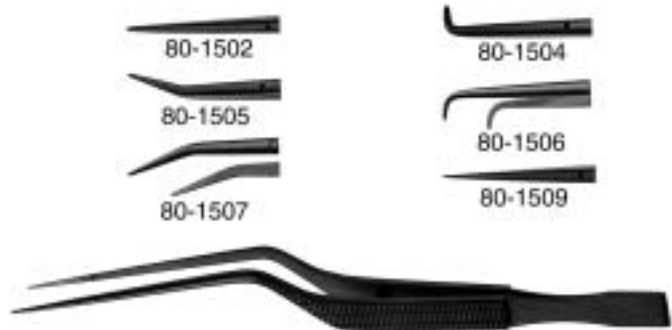
**30-1194** PENFIELD Watchmaker Forceps.  
Tip width .9mm  
Length 7" (178mm)



# FORCEPS MICRO BAYONET

MALIS Forceps, bayonet, TITANIUM.

<b>80-1502</b>	Working distance	3¾"	(95mm)
	Straight, blunt tip		
	Tip width	.75mm	
	Length	8¾"	(222mm)
<b>80-1503</b>	Straight, fine tip		
	Tip width	.5mm	
	Length	8¾"	(222mm)
<b>80-1504</b>	90° Curved up, blunt tip		
	Tip width	.75mm	
	Length	8½"	(216mm)
<b>80-1505</b>	Angled up, fine tip		
	Tip width	.5mm	
	Length	8½"	(216mm)
<b>80-1506</b>	90° Curved down, blunt tip		
	Tip width	.75mm	
	Length	8½"	(216mm)
<b>80-1507</b>	Angled down, fine tip		
	Tip width	.5mm	
	Length	8½"	(216mm)
<b>80-1509</b>	Straight, extra-fine tip		
	Tip width	.25mm	
	Length	8¾"	(222mm)



NEUROSURGERY  
MICROSURGERY

# FORCEPS MICRO BAYONET



	RHOTON Forceps, bayonet, TITANIUM.		
	Working distance	3½"	(89mm)
	Length	8½"	(216mm)
			Tip Width
<b>80-1702</b>	Fine tip		.5mm
<b>80-1703</b>	Regular tip		1mm
<b>80-1749</b>	RHOTON Forceps, bayonet, TITANIUM, serrated tip		
	Working distance	3¾"	(95mm)
	Length	9½"	(240mm)



<b>80-1736</b>	RHOTON Tumor Forceps, bayonet, TITANIUM, serrated ring.		
	Working distance	3½"	(89mm)
	Tip width		4mm
	Length	8½"	(220mm)
<b>80-1748</b>	RHOTON Tumor Forceps, bayonet, TITANIUM, serrated ring.		
	Working distance	3¾"	(95mm)
	Length	9½"	(240mm)

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.



	SPETZLER Neuro-Vascular Forceps		
	Titanium, bayonet		
	Length	9½"	(241mm)
	Working distance	4"	(100mm)
	Tip size		
<b>80-1905</b>	Platform Forceps, straight tip		.7mm
<b>80-1906</b>	Platform Forceps, 30° angled tip		.7mm

# FORCEPS MICRO DRESSING

<b>80-1732</b>	RHOTON Dressing Forceps, TITANIUM, serrated tips.		
	Tip width		1.8mm
	Length	7"	(178mm)



# FORCEPS MICRO DURAL

<b>80-1731</b>	RHOTON Dural Forceps, TITANIUM, 1x2 teeth.		
	Tip width		1mm
	Length	7"	(178mm)



# FORCEPS MICRO CUP

	MALIS* Bayonet Cup Forceps		
	Length	8½"	(216mm)
<b>80-1527</b>	Small cup		2.75mm x 2.0mm
<b>80-1528</b>	Medium cup		3.5mm x 2.75mm
<b>80-1529</b>	Large cup		4.75mm x 3.50mm



NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

# FORCEPS MICRO CUP

---



---

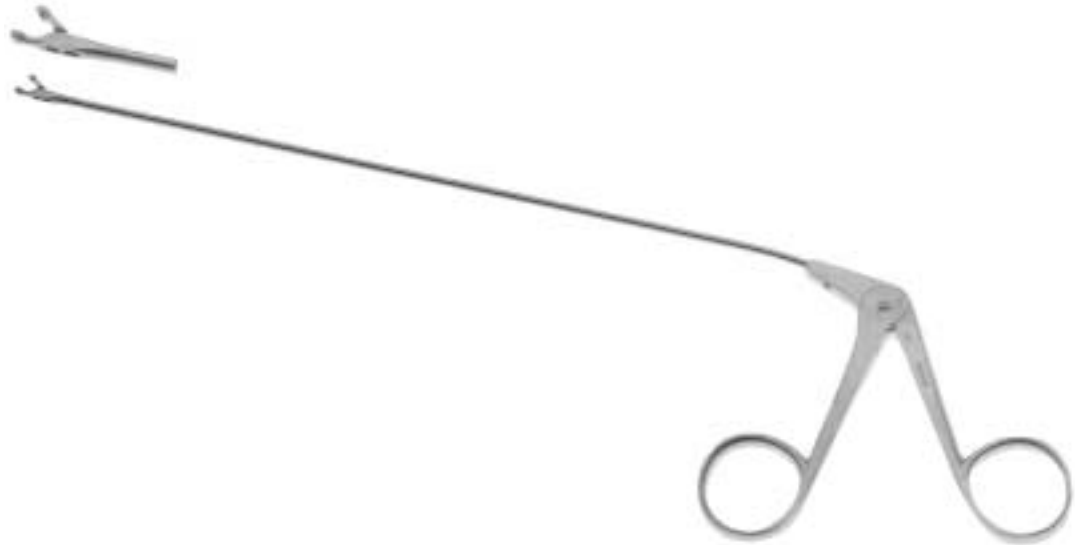
	RHOTON Micro Cup Forceps, alligator action.	
	Shaft length	6" (152mm)
	Type	Tip Width
<b>53-4005</b>	Straight	1mm
<b>53-4006</b>	Right	1mm
<b>53-4007</b>	Left	1mm
<b>53-4008</b>	Straight	2mm

---

NOTE: See back of NEUROSURGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

---

# FORCEPS MICRO CUP



MICRO CUP Pituitary Forceps, semi-malleable shafts.

	Length	7 <sup>7</sup> / <sub>8</sub> "	(200mm)
<b>53-4009</b>	Tip width		1mm
<b>53-4010</b>	Tip width		2mm

# FORCEPS MICRO STRAIGHT

<b>80-2000</b>	MICRO Forceps, straight		
	Tip width		.3mm
	Length	5 <sup>1</sup> / <sub>2</sub> "	(140mm)
<b>80-2009</b>	MICRO Forceps, straight		
	Tip width		.3mm
	Length	7"	(178mm)
<b>80-2010</b>	MICRO Forceps, straight		
	Tip width		.7mm
	Length	7"	(178mm)



NEUROSURGERY  
MICROSURGERY

# FORCEPS MICRO STRAIGHT

---



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

---



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

---



	MALIS Forceps, straight, TITANIUM.		
	Length	6"	(152mm)
<b>80-1500</b>	Blunt	Tip width	.75mm
<b>80-1501</b>	Fine	Tip width	.5mm
<b>80-1508</b>	Extra-fine	Tip width	.25mm

---



	RHOTON Forceps, straight, TITANIUM.		
	Length	7"	(178mm)
<b>80-1700</b>	Extra-fine	Tip width	.3mm
<b>80-1701</b>	Fine	Tip width	.7mm

---

NOTE: See back of NEUROSURGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

---

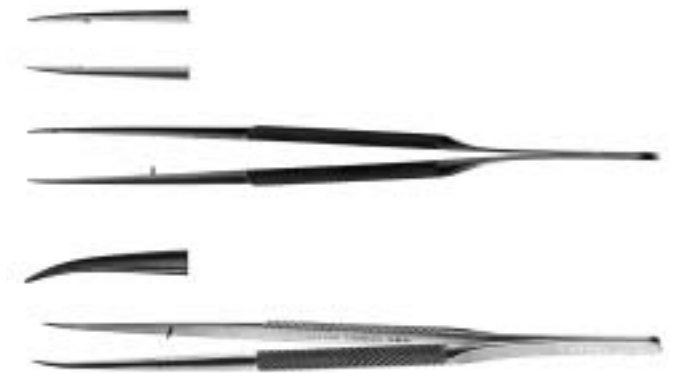


# FORCEPS MICRO TYING

	MICRO Tying Forceps		
	Tip width		.7mm
	Length	7"	(178mm)
<b>80-2018</b>	Straight		
<b>80-2019</b>	Curved		



	MICROVASC* Tying Forceps, TITANIUM.		
	Length	7"	(178mm)
<b>80-1806</b>	Straight	Tip width	.6mm
<b>80-1807</b>	Curved	Tip width	.7mm



# HOOKS DURAL

<b>38-1038</b>	CODMAN Dural Hook, sharp.		
	Length	6½"	(165mm)
	Tip Diameter		(2mm)



<b>38-1045</b>	CORKSCREW Dural Hook, with reversible handle.		
	Length	6½"	(165mm)
	Tip diameter		(4mm)



NEUROSURGERY  
MICROSURGERY

# HOOKS DURAL



**38-1028** CUSHING Dural Hook, sharp.  
Length 5½" (140mm)  
Tip diameter (2mm)



**38-1040** FRAZIER Dural Hook, sharp.  
Length 5" (127mm)  
Tip diameter (.4mm)



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

# HOOKS NERVE



ADSON Dissecting Hooks, roughened handles.  
Hook depth ⅜" (5mm)  
Total length 7¾" (197mm)  
Tip diameter (.9mm)  
**38-1060** Sharp  
**38-1061** Blunt



**38-1030** CUSHING Gasserian Ganglion Hook, Blunt  
Hook depth ⅜" (5mm)  
Total length 9" (229mm)



**38-1080** DANDY Nerve Hook, straight, blunt.  
Hook depth ⅛" (3mm)  
Total length 8⅝" (219mm)  
Tip diameter (1.5mm)

**38-1065** GRAHAM Nerve Hook, blunt.  
 Hook depth 1/8" (4mm)  
 Total length 7" (178mm)  
 Tip diameter (1mm)



**38-1085** HOEN Nerve Hook, with solid triangular handle, straight, blunt.  
 Hook depth 1/4" (7mm)  
 Total length 8 3/4" (222mm)  
 Tip diameter (1mm)



MALIS Nerve Hooks, TITANIUM handle, stainless steel shaft.

	Length	7 1/4"	(184mm)
<b>80-1531</b>	Ball	Tip width	3mm
<b>80-1532</b>	Blunt	Tip width	2mm
<b>80-1533</b>	Blunt	Tip width	3mm



NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

RHOTON Nerve Hooks, TITANIUM.

	length	7 1/2"	(191mm)
<b>80-1688</b>	No. 9, Semi-sharp, 90°	Tip width	.5mm
<b>80-1689</b>	No. 10, Blunt, 90°	Tip width	.8mm
<b>80-1690</b>	No. 11, Semi-sharp, 40°	Tip width	.7mm



**38-1070** SMITHWICK Button Hook, Blunt  
 Length 8" (203mm)



# HOOKS NERVE

---



---

<b>38-1088</b>	SMITHWICK Nerve Hook and Dissector, double-ended, blunt.
Length	12" (305mm)
Hook length	7/16" (11mm)
Tip diameter	(.02mm)

---



---

<b>38-1025</b>	TRACHEA Hook, sharp.
Hook depth	3/16" (5mm)
Hook length	8" (203mm)

---



---

<b>38-1020</b>	WEARY Nerve Hook, black finish, fine, blunt.
Hook depth	1/8" (3mm)
Total length	7 3/4" (197mm)
Tip diameter	(.9mm)

---

# HOOKS SKIN

---



---

<b>38-2515</b>	CARROLL Skin Hook, sharp.
Length	6" (152mm)
Hook size	1/8" (3mm)

---

# INTRODUCERS, PEEL AWAY CATHETER, ENDOSCOPE

Peel-Away Catheter Introducer, sterile, 10 units/box. Used as a guide for catheter insertion. Introducer can be peeled apart permitting optimal positioning of a ventricular catheter.

Overall length 7" (18.0cm)

Peel Away Sheath length 6" (14.7cm)

**83-1325** 12.5 Fr

**83-1326** 14 Fr



## KITS

The CODMAN Stainless Steel Microsurgical Instruments are available as a kit. Each kit includes a selection of stainless steel microsurgical instruments and a MICROCARE Instrument case.

**80-2030** CODMAN Stainless Steel Microsurgical Kit #1.  
Length 5½" (140mm)

**80-2000** Micro Forceps .3mm tip, two each.

**80-2002** Needle Holder, straight .5mm tip.

**80-2003** Needle Holder, curved .5mm tip.

**80-2005** Micro Scissors, straight.

**80-2006** Micro Scissors, curved.

**80-1563** MICROCARE Instrument Case, small.



NEUROSURGERY/  
MICROSURGERY

# KITS

---



- 80-2031** CODMAN Stainless Steel Microsurgical Kit #2.  
Length 7" (178mm)
- 80-2009** Micro Forceps .3mm tip.
- 80-2010** Micro Forceps .7mm tip.
- 80-2012** Needle Holder, straight .5mm tip.
- 80-2013** Needle Holder, curved .5mm tip.
- 80-2015** Micro Scissors, straight.
- 80-2016** Micro Scissors, curved.
- 80-2018** Micro Tying Forceps, straight .7mm tip.
- 80-2019** Micro Tying Forceps, curved .7mm tip.
- 80-1562** MICROCARE Instrument Case, large.

For specific photographs of products represented on this page, please turn to the NEUROLOGICAL Section of the catalog and follow the alphabetical listing.

---



- 50-1670** CROCKARD\* Transoral Instrument Set  
Coordinated set of instruments used to approach a large area of pathology from the sphenoid to the C<sub>3</sub> vertebra via the transoral technique.  
Set Includes:  
Quantity
- 50-1651** 1 ea. CROCKARD Transoral Retractor Body
- 50-1652** 1 ea. CROCKARD Large Tongue Retractor Blade
- 50-1653** 1 ea. CROCKARD Small Tongue Retractor Blade
- 50-1654** 2 ea. CROCKARD 90° Retractor Blade
- 50-1655** 2 ea. CROCKARD Curved Retractor Blade
- 50-1656** 2 ea. CROCKARD Retractor Blade Connector
- 50-1657** 1 ea. CROCKARD Suction Tube Holder, Short
- 50-1658** 1 ea. CROCKARD Suction Tube Holder, Long
- 50-1659** 1 ea. CROCKARD Hard Palate Retractor
- 50-1660** 1 ea. CROCKARD Pharyngeal Retractor, Small
- 50-1661** 1 ea. CROCKARD Pharyngeal Retractor, Large
- 50-1662** 1 ea. CROCKARD Odontoid Peg Grasping Forceps
- 50-1663** 1 ea. CROCKARD Ligament Grasping Forceps
- 50-1664** CROCKARD Sterilizing/Storage Case

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

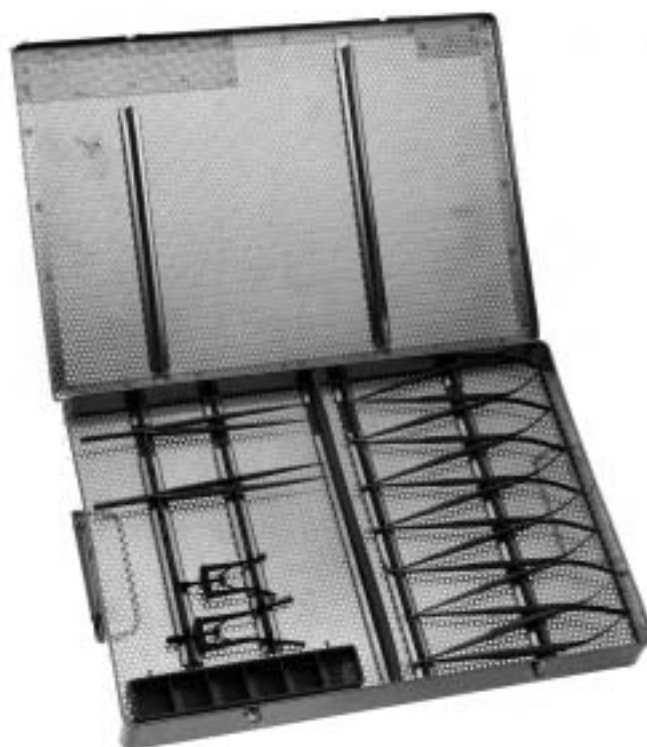
Lengths 6" (152mm)

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

For specific photographs of products represented on this page, please turn to the NEUROLOGICAL Section of the catalog and follow the alphabetical listing.

CODMAN's MICROVASC Kit is a coordinated instrument approach to the STA-MCA (Superficial Temporal Anastomosis to the Middle Cerebral Anastomosis). The MICROVASC set of instruments include eight TITANIUM microvascular instruments and two stainless steel specially modified alm wound retractors, all in a MICROCARE stainless steel instrument case.

- 80-1820** MICROVASC STA-MCA Kit, includes: MICROVASC Instruments, TITANIUM.  
Length 7" (178mm)
- 80-1800** Needleholder, curved, two each.
- 80-1801** Scissors, straight.
- 80-1802** Scissors, curved.
- 80-1803** Scissors, 60° angled, straight tip.
- 80-1804** Scissors, 60° angled, curved tip, right.
- 80-1805** Scissors, 60° angled, curved tip, left.
- 80-1806** Tying Forceps, straight.
- 80-1807** Tying Forceps, curved.  
Modified Alm Wound Retractors, stainless steel, blackened.
- 80-1812** Retractor, four by four sharp prongs.
- 80-1813** Retractor, twelve by twelve sharp prongs.
- 80-1818** MICROCARE Instrument Case.



NEUROSURGERY  
MICROSURGERY

# KITS



RHOTON Micro Dissection Set is designed for use during aneurysm or tumor dissections, and has particular application for acoustic neuromas. The dissectors are manufactured from lightweight TITANIUM for balance and durability.

**80-1695** RHOTON Micro Dissection Set

For specific photographs of products represented on this page, please turn to the NEUROLOGICAL Section of the catalog and follow the alphabetical listing.



**80-1915** SPETZLER NEURO-VASCULAR Instrument Kit Titanium. Provides coordinated approach for deep neuro-vascular surgery. Slim design, longer working distance.

Length 9½" (241mm)  
Working distance 4" (100mm)

Kit includes:

- 80-1900** Small teardrop dissector, bayonet, angled up 30°
- 80-1901** Small teardrop dissector, bayonet, angled up 90°
- 80-1902** Small spatula dissector, bayonet, angled up 30°
- 80-1903** Bayonet Bipolar fcp, straight tip .7mm
- 80-1904** Bayonet Bipolar fcp, 30° angled tip .7mm
- 80-1905** Bayonet Platform fcp, straight tip .7mm
- 80-1906** Bayonet Platform fcp, 30° angled tip .7mm
- 80-1907** Bayonet Scissor, straight tip, 4mm blade length
- 80-1908** Bayonet Scissor, 30° curved tip, 4mm blade length
- 80-1909** Bayonet Needleholder, with catch, 30° curved tip, tungsten coated
- 80-1910** Micro Vari-angle temporary clip applier, 30° angled up
- 80-1914** Microcare Universal Bayonet Instrument Case

For specific photographs of products represented on this page, please turn to the NEUROLOGICAL Section of the catalog and follow the alphabetical listing.



# KNIVES

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



**80-1860** JONES I.M.A. Diamond Knife  
 Length 7½" Tip 45°



STECHER Arachnoid Knives  
 Tip width 1.5mm  
 Length 8" (203mm)  
**40-1020** Straight  
**40-1021** Angled left  
**40-1022** Angled right



# MARKING PENS

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



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



NEUROSURGERY  
 MICROSURGERY

# NEEDLE



<b>80-1691</b>	RHOTON #12 Straight Point Needle, semi-sharp, TITANIUM.		
	Tip width		.8mm
	Length	7½"	(191mm)

NOTE: See back of NEUROSURGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

# NEEDLE HOLDERS BAYONET



	MALIS Needle Holders, bayonet, TITANIUM.		
	Working distance	2½"	(63mm)
	Length	8¾"	(222mm)
<b>80-1512</b>	Straight tip	Tip width	0.6mm
<b>80-1513</b>	Curved tip	Tip width	0.6mm
<b>80-1515</b>	Straight tip	Tip width	0.4mm



	RHOTON Needle Holders, bayonet, TITANIUM.		
	Working distance	3½"	(89mm)
	Tip width		.9mm
	Length	8½"	(216mm)
<b>80-1728</b>	Straight tip		
<b>80-1729</b>	Curved tip		

	RHOTON Needle Holders, bayonet, TITANIUM.		
	Working distance	3¾"	(95mm)
	Length	9½"	(240mm)
<b>80-1746</b>	Straight tip		
<b>80-1747</b>	Curved tip		

# NEEDLE HOLDERS BAYONET

<b>80-1909</b>	SPETZLER Neuro-Vascular Needle Holder Titanium, bayonet, with catch, 75 gram soft tension. Tips coated with tungsten for secure grip.		
	Length	9½"	(241mm)
	Working distance	4"	(100mm)
	Tip	30° curved	



NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

# NEEDLE HOLDERS STRAIGHT

<b>64-1000</b>	ADSON Dural Needle Holder, fenestrated jaws.		
	Length	7¼"	(181mm)



	E-SERIES* Needle Holders, curved, TITANIUM.		
	Length	6"	(152mm)
<b>80-6006</b>	Fine tip	Tip width	.7mm
<b>80-6007</b>	Standard tip	Tip width	1mm



	E-SERIES* XF Needle Holders, Titanium		
	Length	6"	(152mm)
<b>80-6620</b>	Extra Fine Tip Straight	Tip width	.5mm
<b>80-6621</b>	Extra Fine Tip Curved	Tip width	.5mm



NEUROSURGERY  
MICROSURGERY

# NEEDLE HOLDERS STRAIGHT



MALIS Needle Holders, TITANIUM.			
	Length	6 <sup>3</sup> / <sub>4</sub> "	(171mm)
<b>80-1510</b>	Straight tip	Tip width	.5mm
<b>80-1511</b>	Curved tip	Tip width	.5mm
<b>80-1514</b>	Fine, straight tip	Tip width	.5mm



MICROVASC* Needle Holders, TITANIUM, curved tip.			
	Tip width		.7mm
<b>80-1800</b>	Length	7"	(178mm)



RHOTON Needle Holders, TITANIUM.			
	Length	7"	(178mm)
<b>80-1725</b>	Curved fine	Tip width	.5mm
<b>80-1726</b>	Straight	Tip width	.9mm
<b>80-1727</b>	Curved	Tip width	.9mm



MICRO Needle Holders			
	Tip width		.5mm
	Length	7"	(178mm)
<b>80-2012</b>	Straight tip		
<b>80-2013</b>	Curved tip		

# NEEDLE HOLDERS STRAIGHT

---

	MICRO Needle Holders		
	Tip width		.5mm
	Length	5½"	(140mm)
<b>80-2002</b>	Straight tip		
<b>80-2003</b>	Curved tip		

---

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.



---

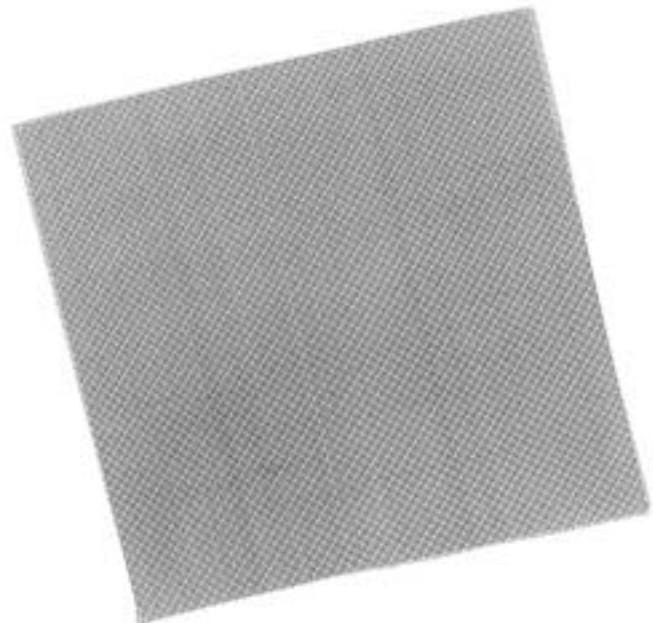
## MESH

---

---

<b>43-1022</b>	TITANIUM Mesh		
	Sterile		
	Titanium Mesh is indicated for use with methyl methacrylate formulated for cranioplasty.		
	Size	6"x 6"	(15cm x 15cm)
	Wire diameter	.010"	(31g)
	Mesh per inch	24 x 24	

---



NEUROSURGERY  
MICROSURGERY

## PASSER

---



<b>80-1530</b>	MALIS Ligature Passer, TITANIUM handles, stainless steel shaft.		
	Hook size		3mm
	Length	7 $\frac{3}{8}$ "	(184mm)

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

---

## PATTIES

---



CODMAN Surgical Patties, sterile, X-ray detectable, 10 patties per package, 20 packages per dispenser box.

<b>80-1396</b>	$\frac{5}{16}$ " Round	.79cm
<b>80-1397</b>	$\frac{1}{4}$ " x $1\frac{1}{2}$ "	.64cm x 3.81cm
<b>80-1398</b>	$\frac{1}{4}$ " x 3"	.64cm x 3.81cm
<b>80-1399</b>	$\frac{1}{4}$ " x $\frac{1}{4}$ "	.64cm x .64cm
<b>80-1400</b>	$\frac{1}{2}$ " x $\frac{1}{2}$ "	1.27cm x 1.27cm
<b>80-1401</b>	$\frac{3}{4}$ " x $\frac{3}{4}$ "	1.91cm x 1.91cm
<b>80-1402</b>	$\frac{1}{2}$ " x 1"	1.27cm x 2.54cm
<b>80-1403</b>	1" x 1"	2.54cm x 2.54cm
<b>80-1404</b>	$\frac{1}{2}$ " x $1\frac{1}{2}$ "	1.27cm x 3.81cm
<b>80-1405</b>	$1\frac{1}{2}$ " x $1\frac{1}{2}$ "	3.81cm x 3.81cm
<b>80-1406</b>	$\frac{1}{2}$ " x 2"	1.27cm x 5.08cm
<b>80-1407</b>	$\frac{1}{2}$ " x 3"	1.27cm x 7.62cm
<b>80-1408</b>	1" x 3"	2.54cm x 7.62cm
<b>80-1409</b>	3" x 3"	7.62cm x 7.62cm

---

# PERCUSSORS/HAMMERS

---

**24-1010** MILLET Neurological Test Instrument, incorporating a C-128 tuning fork.  
Length 8 1/8" (206mm)  
Includes one each of the following:  
MILLET Pinwheel  
MILLET Rubber Percussor, large  
MILLET Rubber Percussor, small  
MILLET Cap for large percussor  
MILLET Brush Assembly  
MILLET Needle

---



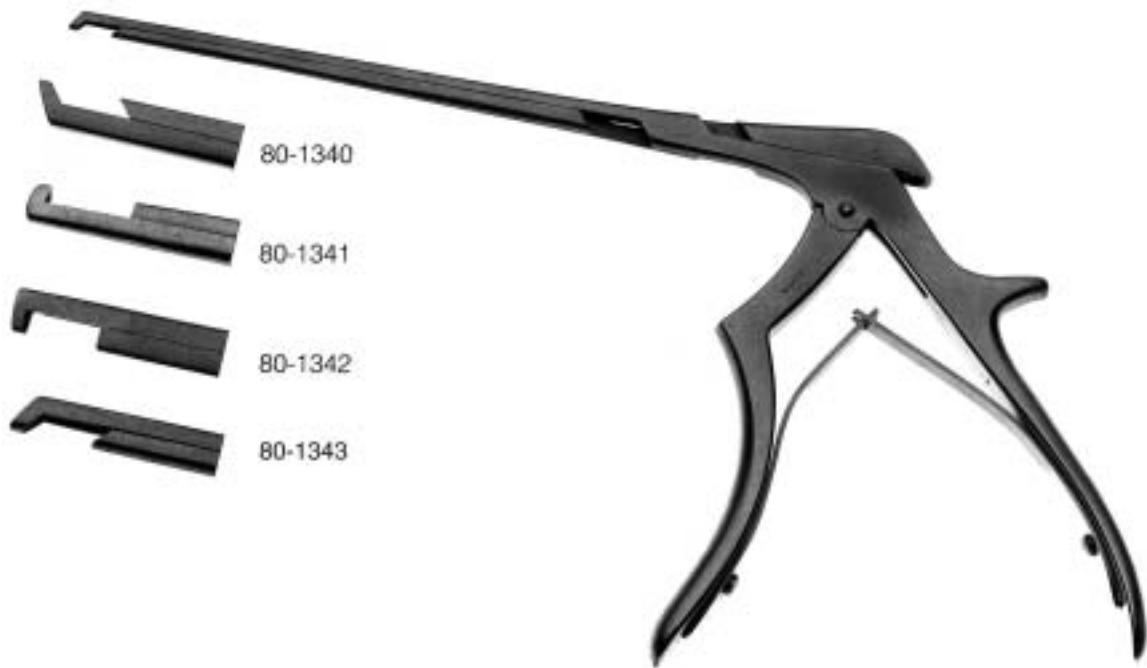
**88-4000** TAYLOR Percussion Hammer  
Length 8" (203mm)

---



# PUNCHES

---



---

HARDY Sella Punch			
	Length	7"	(178mm)
<b>80-1344</b>	40° Up	Bite	1mm
<b>80-1340</b>	40° Up	Bite	2mm
<b>80-1341</b>	90° Up	Bite	2mm
<b>80-1342</b>	90° Down	Bite	2mm
<b>80-1343</b>	40° Down	Bite	2mm

---



# RETRACTORS HAND-HELD



---

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

---

---

<b>50-1060</b>	CUSHING Decompression Retractor, fenestrated blade.		
	Width	1/2"	(13mm)
	Depth	7/8"	(22mm)
	Length	8 3/8"	(213mm)

---



---

<b>50-2608</b>	RAGNELL Retractor, double-ended.		
	Blade width	1/8"	(3mm)
	Blade depth	1/4"	(6mm)
	Blade width	1/4"	(6mm)
	Blade depth	5/8"	(16mm)
	Length	6"	(152mm)

---



# GREENBERG RETRACTOR

## AN OVERVIEW OF THE STAIRCASE CONCEPT

The goal of the operating surgeon should be to compartmentalize work performance into three levels.

**LEVEL I** includes retraction and dissection and has a low profile directly next to the operative field.

**LEVEL II** is above LEVEL I, separate and distinct from LEVEL I and consists of handresting, with one handrest for each hand.

**LEVEL III** is above LEVEL II and consists of instruments mounted above the handrests. These instruments are within easy reach so the surgeon can move from LEVEL II to LEVEL III with minimal hand travel distance.

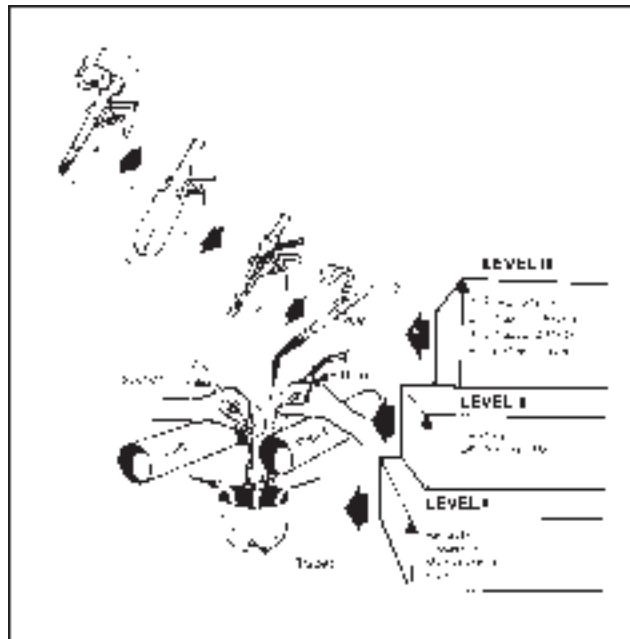
By the same token, the surgeon, while resting the hand at LEVEL II, will be able to move down and make subtle adjustments during the retraction/dissection process at LEVEL I.

The key is the concept of the surgeon's hands supported at LEVEL II with movements from the handrest down to LEVEL I, up to LEVEL III.

The stability for most of the surgeon's activities will come from the handheld instruments at LEVEL II resting on the handrest during surgery. This platform is the hub, or focal point, of all the surgeon's work.

With the increased use of microsurgical and advanced surgical technique, there has developed the necessity of conceptual models of surgery. The idea of separate levels of instrument structure and surgical performance is more than a way to describe the assembly of instruments. (1,2,3,6) It compartmentalizes the operating surgeon's performance and brings order and neatness into the surgical process. By adhering to the Staircase Concept, (3) tools seem to fit more easily where they are being used, performance becomes more systematic and there is minimal interference from "things getting in the way." (6,8,9)

The increasing use of LEVEL III for the mechanical support of instruments of action greatly increases the surgeon's efficiency. The key to LEVEL III, with its many options, is to use only the part or parts of the system which are helpful for a given procedure. (6,8,9) Instrument positions should be planned in advance so as to maximize efficiency in the use of space. (5,7)



Surgical Instrument Levels, Staircase Concept  
**LEVELS I, II, III**

These instruments, their suggested uses, and the Staircase Concept of structure and function have developed to concepts of surgery, here condensed into seven ideas:

1. Work analysis of each step of a given procedure.
2. Decreasing repetitive movements (particularly instrument exchanges) during surgery. (8,9)
3. Use of mechanical support for each hand to reduce tremor and fatigue while increasing precision. (1,2,3)
4. Reliance upon mechanical support for instruments in the field. (4,5,6)
5. Decreasing reliance upon other operating room personnel so as to reduce miscommunication and enable the surgeon to work at his own tempo. (4,5,6,7,8,9)
6. Maintain versatility of the instruments so that new instruments can be added easily.
7. Reduce the number and required training of assisting personnel and thus reduce costs. (7,8,9)

These goals are attainable. Surgeons can be more ergonomically efficient, and the instruments described are versatile, simple, and reliable. The techniques of course, take time to learn, but as experience is gained, the surgeon will find that the time required to set up the system will diminish and the use of mechanically supported instruments will increase.

# GREENBERG RETRACTOR

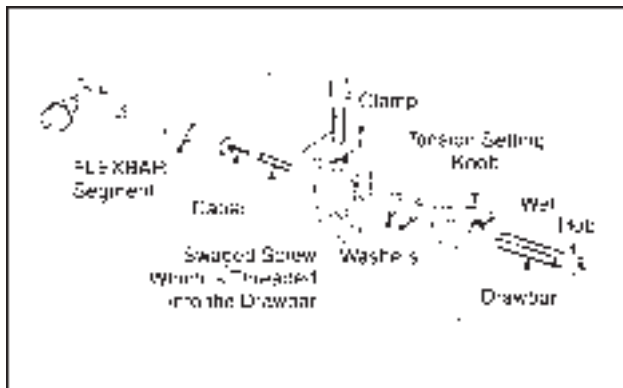
## CARE AND MAINTENANCE

For purposes of care and maintenance, it may be helpful to separate the instruments into Bars (Primary, Secondary, and Floating Secondary Bars), and FLEXBAR Arms (Long and Short Retractor Arms, Handrests, Microinstrument Holders, Large and Small Instrument Holders.)

## BARS

### Cleaning

After each surgery, use a soft brush and mild detergent to remove all residual debris from each instrument. It is recommended that the instruments and parts be ultrasonically cleaned.



Retractor Arm

### Lubrication

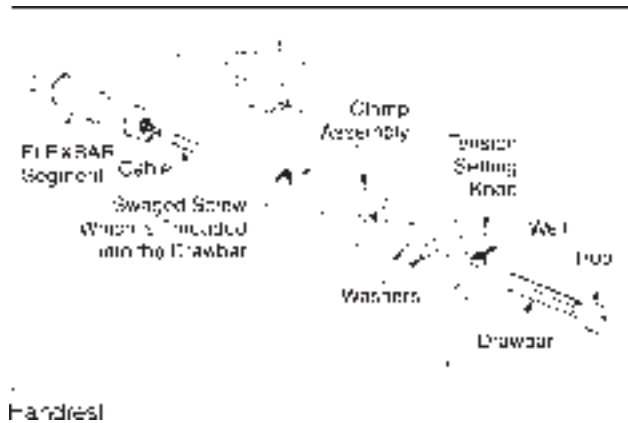
It is extremely important that moveable parts be properly lubricated to keep them functional. It is recommended that all components be immersed in a water-soluble lubricant. PRESERVE\* Concentrate (catalog no. 43-1033) is recommended for instruments to be steam sterilized.

## FLEXBAR ARMS

### Cleaning

After surgery, use a soft brush and mild detergent to remove all residual debris from each instrument. It is recommended that the instruments and parts be ultrasonically cleaned.

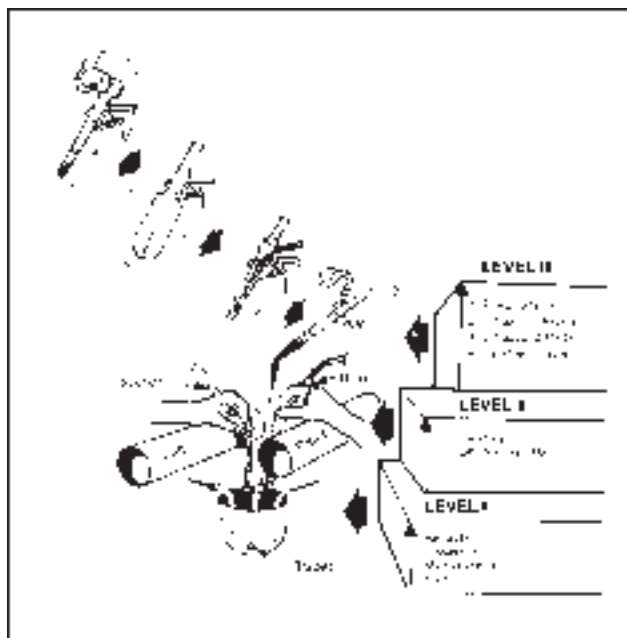
FLEXBAR Arms consist of a series of hollow cylinders through which a multi-strand steel cable runs. Attached to the cable is a swaged screw which is threaded into a drawbar. See below.



Handrest

# RETRACTORS

## SELF-RETAINING, GREENBERG



CODMAN'S GREENBERG Retractor is a modular, self-retaining neurosurgical/microsurgical retractor system. The GREENBERG system provides the surgeon increased control and support in dissection as well as reliable exposure in multiple planes of retraction. A variety of configurations are possible with a combination of component parts. See your GREENBERG owners manual for a more complete description of the possible retraction levels.

**50-1500** GREENBERG Universal Retractor and Handrest Kit, includes the following:

GREENBERG Tapered Retractor Blades

	Length	Blade widths
<b>50-1530</b>	9" (229mm)	1/4" x 3/4" (6mm x 19mm)
<b>50-1531</b>	9" (229mm)	3/32" x 9/8" (4mm x 16mm)
<b>50-1532</b>	9" (229mm)	1/8" x 1/2" (3mm x 13mm)
<b>50-1533</b>	9" (229mm)	3/32" x 3/8" (2mm x 10mm)
<b>50-1534</b>	9" (229mm)	1/16" x 1/4" (1.6mm x 19mm)

Blades mount onto Long Arm (50-1509) or Short Arm (50-1511)

**50-1507** GREENBERG Primary Bar, attaches to skull clamp.

Length 6" (152mm)

GREENBERG Retractor Kit (50-1500) is supplied with two primary bars.

**50-1508** GREENBERG Secondary Bar, attaches to primary bar.

Length 12" (305mm)

GREENBERG Retractor Kit (50-1500) is supplied with four secondary bars.

**50-1509** GREENBERG Long Retractor Arm, attaches to primary or secondary bar.

Length 9 1/2" (241mm)

GREENBERG Retractor Kit (50-1500) is supplied with four long retractor arms.

**50-1512** GREENBERG Handrest, attaches to short coupler (50-1522) or a secondary bar (50-1508 or 50-1516)

Length 10" (254mm)

**50-1513** GREENBERG Pattie Tray, attaches to long or short arm (50-1509 or 50-1511)

Width 3" (76mm)

Length 6 3/4" (171mm)

**50-1514** GREENBERG Universal Retractor Case, with four compartments for various components.

Compartment Dimensions

	Compartment #1	Compartment #2
Length	10 3/8" (264mm)	17" (432 mm)
Width	7 3/4" (197mm)	2 1/8" (54mm)
	Compartment #3	Compartment #4
Length	6 3/4" (171mm)	6 3/4" (171mm)
Width	4 5/8" (117mm)	3 1/8" (79mm)

Case Dimensions

Length 17" (432mm)

Width 10" (254mm)

Depth 2 3/8" (60mm)

# RETRACTORS SELF-RETAINING, GREENBERG

---

- 50-1507** GREENBERG Primary Bar, attaches to skull clamp.  
Length 6" (152mm)  
GREENBERG Retractor Kit (50-1500) is supplied with two primary bars.
- 50-1508** GREENBERG Secondary Bar, attaches to primary bar.  
Length 12" (305mm)  
GREENBERG Retractor Kit (50-1500) is supplied with four secondary bars.
- 50-1509** GREENBERG Long Retractor Arm, attaches to primary or secondary bar.  
Length 9½" (241mm)  
GREENBERG Retractor Kit (50-1500) is supplied with four long retractor arms.
- 



50-1507



50-1508



50-1509

# RETRACTORS SELF-RETAINING, GREENBERG

---



---

<b>50-1512</b>	GREENBERG Handrest, attaches to short coupler (50-1522) or a secondary bar (50-1508 or 50-1516)
Length	10" (254mm)
<b>50-1513</b>	GREENBERG Pattie Tray, attaches to long or short arm (50-1509 or 50-1511)
Width	3" (76mm)
Length	6¾" (171mm)

---

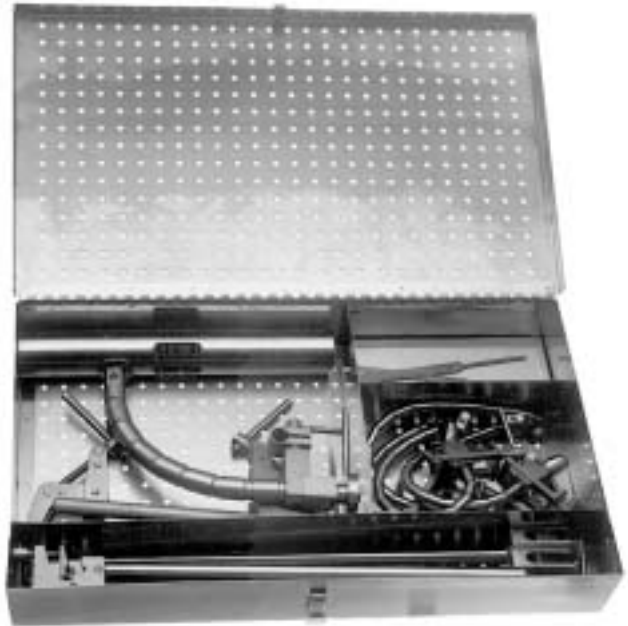
# RETRACTORS SELF-RETAINING, GREENBERG

**50-1514** GREENBERG Universal Retractor Case, with four compartments for various components.  
Compartment Dimensions

	Compartment # 1	Compartment # 2
Length	10 <sup>3</sup> / <sub>8</sub> " (264mm)	17" (432mm)
Width	7 <sup>3</sup> / <sub>4</sub> " (197mm)	2 <sup>1</sup> / <sub>8</sub> " (54mm)
	Compartment # 3	Compartment # 4
Length	6 <sup>3</sup> / <sub>4</sub> " (171mm)	6 <sup>3</sup> / <sub>4</sub> " (171mm)
Width	4 <sup>5</sup> / <sub>8</sub> " (117mm)	3 <sup>1</sup> / <sub>8</sub> " (79mm)

Case Dimensions

Length	17"	(432mm)
Width	10"	(254mm)
Depth	2 <sup>3</sup> / <sub>8</sub> "	(60mm)



GREENBERG Tapered Retractor Blades  
Both ends can be used for retraction. Attaches to Greenberg Long Arm (50-1509) or Greenberg Short Arm (50-1511)  
Blade Length-9" (229mm)

<b>50-1530</b>	1/4" x 3/4"	(6mm x 19mm)
<b>50-1531</b>	5/32" x 5/8"	(4mm x 16mm)
<b>50-1532</b>	1/8" x 1/2"	(3.2mm x 12.7mm)
<b>50-1533</b>	3/32" x 3/8"	(2.4mm x 9.5mm)
<b>50-1534</b>	1/16" x 1/4"	(1.6mm x 6mm)



**50-1522** GREENBERG Short Coupler  
Can be used as mount for the GREENBERG Handrest (50-1512), or Large or Small Instrument Holders (50-1524 or 50-1523).



# RETRACTORS SELF-RETAINING, GREENBERG

---



---

**50-1511** GREENBERG Short Retractor Arm  
Length 6½" (165mm)

---

Attaches to Primary Bar (50-1507) or Secondary Bar (50-1516).  
Mini vise holds all sizes of Greenberg Retractor blades.

---



---

**50-1515** GREENBERG Maxi-Vise Adapter, attaches to the GREENBERG Flexible Arms (50-1509 and 50-1511). Doubles the holding diameter of the arms (4mm to 8mm). Useful for holding suction devices and other various microsurgical instruments.

---



---

**50-1516** GREENBERG Floating Secondary Bar  
Length 12" (305mm)

---

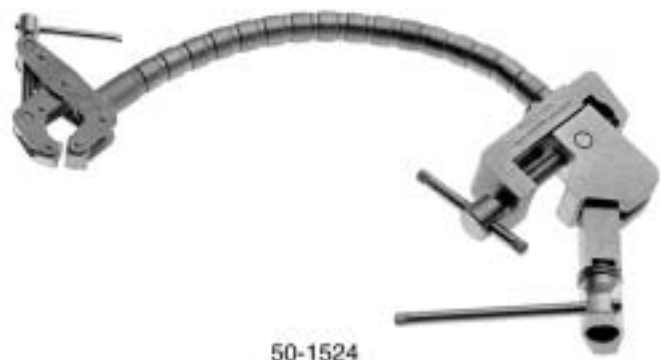
See GREENBERG Instruction Manual for complete assembly instructions. Attaches to Primary Bar (50-1507) or Secondary Bar (50-1508) or Short Coupler (50-1522). Can also be mounted onto a flat metal edge of up to 1/2" thickness. Incorporates a universal joint enabling conical adjustment of angle

---



# RETRACTORS SELF-RETAINING, GREENBERG

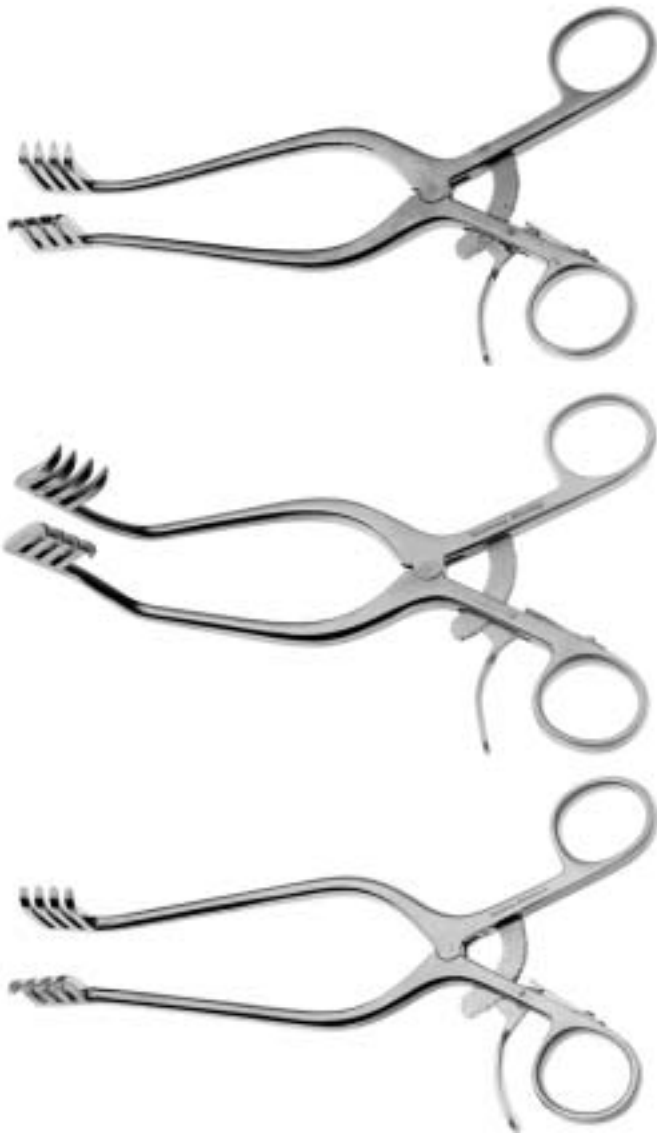
- 50-1523 GREENBERG Small Instrument Holder is a Flexbar Arm used when greater holding force than that offered by the Microinstrument holder (50-1529) is needed. Holds instruments with shafts up to  $\frac{5}{16}$ " in diameter and flat instruments.
- 50-1524 GREENBERG Large Instrument Holder is a Flexbar Arm used to support heavy instruments. The cantilever clamp holds instruments with shafts up to 1" in diameter.
- 50-1525 GREENBERG Universal Retraction System X-LARGE Instrument Holder. Holds instruments up to 2" diameter.
- 50-1529 GREENBERG Microinstrument Holder is a Flexbar Arm used to hold microinstruments used repeatedly within the retracted field. holds instruments with shafts up to  $\frac{1}{8}$ " in diameter.



NEUROSURGERY  
MICROSURGERY

# RETRACTORS SELF-RETAINING

---



	ADSON Cerebellar Retractors, self-retaining.	
	Total opening	4½" (114mm)
<b>50-1180</b>	4x4 sharp prongs, straight shaft	
	Blade width	⅝" (16mm)
	Blade depth	⅞" (22mm)
	Length	7½" (191mm)
<b>50-1181</b>	4x4 sharp prongs, angular shaft	
	Blade width	⅝" (16mm)
	Blade depth	⅞" (22mm)
	Length	7" (178mm)
<b>50-1182</b>	4x4 blunt prongs, straight shaft	
	Blade width	⅝" (16mm)
	Blade depth	⅞" (22mm)
	Length	7½" (191mm)

---



<b>50-1186</b>	ANDERSON-ADSON Scalp Retractor, self-retaining with angular arms, 4x4 sharp prongs.	
	Blade width	¾" (19mm)
	Blade depth	⅝" (16mm)
	Total opening	4½" (114mm)
	Length	7½" (191mm)

---

# RETRACTORS SELF-RETAINING

---



---

**50-1520** CODMAN Flexible Arm Cerebellar Retractor, self-retaining 4x4 sharp prongs, includes retractor body, flexible arm, two hex posts, and three retractor blades.

Total opening            4½"        (114mm)

Length                        7"         (178mm)

Flexible Arm Length      9½"       (241mm)

Retractor Blades, three.

One Notched Right Retractor Blade

One Notched Left Retractor Blade

One Double Notched Retractor Blade

Blade width                ⅜"        (10mm)

Blade length              4"         (102mm)

---

# RETRACTORS SELF-RETAINING

---



50-1223



50-1224

---

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

---



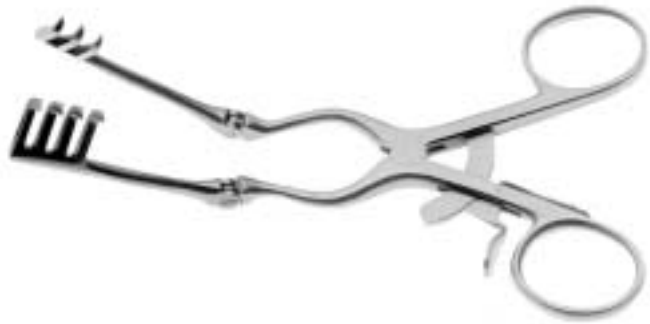
---

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

---

# RETRACTORS SELF-RETAINING

**50-1168** CONE Laminectomy Retractors, self-retaining with hinged arms, 3x4 sharp prongs.  
Length 8" (203mm)



**50-1166** CONE Scalp Retractors, self-retaining, with hinged arms.  
3x4 blunt prongs  
Length 5¾" (146mm)

**50-1167** 3x4 sharp prongs  
Length 6⅞" (162mm)



**50-1220** CONTOUR Scalp Retractor, self-retaining, with blades curved to fit contour of skull, 3x4 blunt prongs.  
Blade width ⅝" (16mm)  
Blade depth ⅝" (16mm)  
Total opening 2½" (64mm)  
Length 5½" (140mm)



**50-1226** JANSEN Scalp Retractor, self-retaining, 4x4 blunt prongs.  
Blade width ¾" (19mm)  
Blade depth ¾" (19mm)  
Total opening 3" (76mm)  
Length 4⅝" (117mm)



# RETRACTORS SELF-RETAINING



<b>50-1227</b>	JANSEN Mastoid Retractor, self-retaining, 3x3 blunt prongs.
Prong width	1 <sup>1</sup> / <sub>16</sub> " (17mm)
Prong depth	3 <sup>3</sup> / <sub>8</sub> " (10mm)
Total opening	1 <sup>3</sup> / <sub>4</sub> " (44mm)
Length	4" (102mm)



<b>50-1460</b>	MALIS Brain Retractor Kit, black anodized, attaches to the MALIS Cerebellar Retractor (50-1465), and includes the following:
Five Retractor Blades	
Blade length	4" (102mm)
Blade width	3 <sup>3</sup> / <sub>8</sub> " (10mm)
Blade width	9 <sup>1</sup> / <sub>16</sub> " (14mm)
Blade width	5 <sup>5</sup> / <sub>8</sub> " (16mm)
Blade width	3 <sup>3</sup> / <sub>4</sub> " (19mm)
Blade width	1" (25mm)
Three Retractor Extensions	
Length	2" (51mm)
Length	3" (76mm)
Length	4" (102mm)

<b>50-1453</b>	MALIS Hinge Clamp
<b>50-1454</b>	MALIS Double Connectors MALIS Brain Retractor Kit (50-1460) is supplied with two double connectors.



50-1453

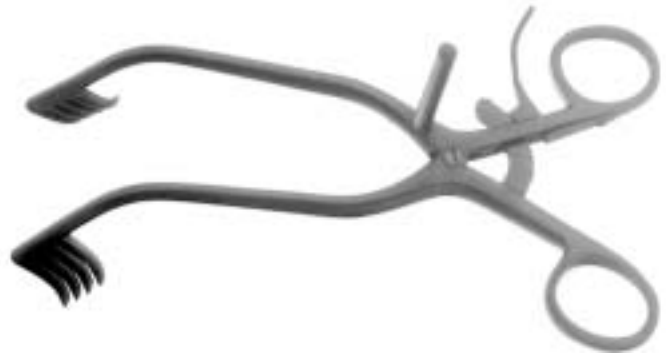


50-1454

# RETRACTORS SELF-RETAINING

**50-1465** MALIS Cerebellar Retractor, self-retaining, 4x4 sharp prongs, angular arms with post for attaching the MALIS Brain Retractor (50-1460), black anodized.

Total opening	5½"	(140mm)
Length	7"	(178mm)
Post height	1½"	(38mm)
Prong width	5⁄8"	(16mm)
Prong depth	7⁄8"	(22mm)



**80-1812** MICROVASC™ Modified Alm Retractors, black anodized.

4x4 prongs	Length	3"	(76mm)	
80-1813	12x12 prongs	Length	3¾"	(95mm)



**50-1363** MISKIMON Cerebellar Retractor, 7x7 sharp prongs.

Total length	7½"	(191mm)
Blade width	1¼"	(32mm)
Blade depth	1⅜"	(35mm)

# RETRACTORS SELF-RETAINING

---



---

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

---

# RONGEURS BONE, SINGLE ACTION

---



---

<b>53-1040</b>	ADSON Cranial Rongeur, straight.
Bite	(8mm)
Length	8" (203mm)

---



---

<b>53-1035</b>	BACON Cranial Rongeur, angular.
Bite	$\frac{3}{16}$ " (5mm)
Length	$7\frac{3}{4}$ " (197mm)

---



---

<b>53-1102</b>	BEYER (LEMPERT) Rongeur, curved.
Bite	$\frac{1}{16}$ " (2mm)
Length	$6\frac{1}{8}$ " (156mm)

---



# RONGEURS BONE, SINGLE ACTION

---



---

**53-1030** DE VILBISS Cranial Rongeur, with one extra blade.  
Length         $8\frac{1}{16}$ "        (205mm)

---

---

**53-1108** LEMPERT Rongeur, straight.  
Bite             $\frac{1}{16}$ "            (2mm)  
Length         $6\frac{1}{8}$ "            (156mm)

---



---

**30-1310** LISTON Bone Cutting Forceps  
Length         $5\frac{1}{2}$ "            (140mm)

---



NEUROSURGERY  
MICROSURGERY

# RONGEURS BONE, SINGLE ACTION



	LUER Bone Rongeurs	
<b>53-1010</b>	Bite	1/4" (6mm)
<b>53-1011</b>	Length	7" (178mm)
	53-1010	Straight
	53-1011	Curved



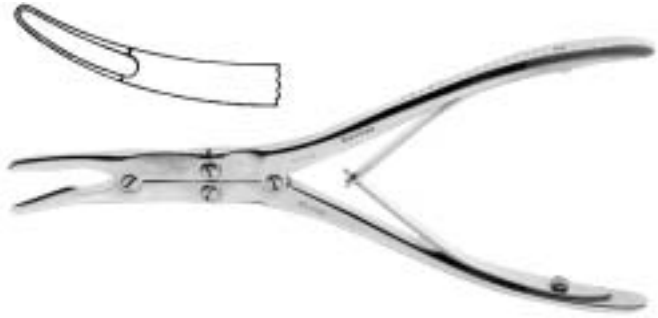
	REINER Bone Rongeurs, curved.	
<b>53-1015</b>	Length	7" (178mm)
<b>53-1016</b>	Bite	(3mm x 13mm)
	53-1016	Bite
		(4mm x 14mm)



<b>53-1055</b>	STOOKEY Cranial Rongeur, angular.	
	Bite	(3mm)
	Length	7 3/8" (187mm)

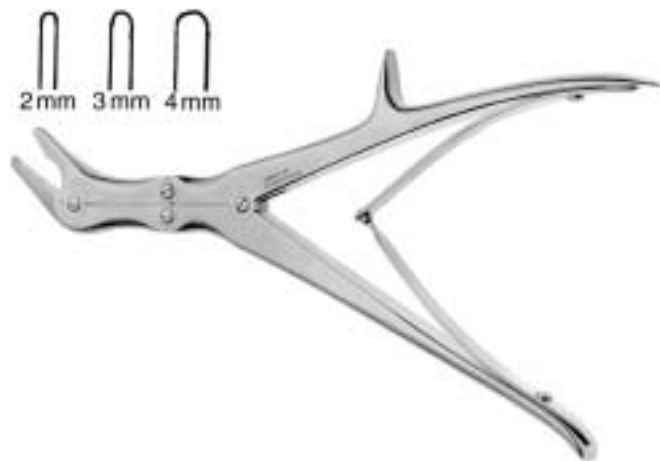
# RONGEURS BONE, DOUBLE ACTION

**53-1100** BEYER Rongeur, curved, double-action.  
 Bite  $\frac{1}{16}$ " (2.5mm)  
 Length 7" (178mm)



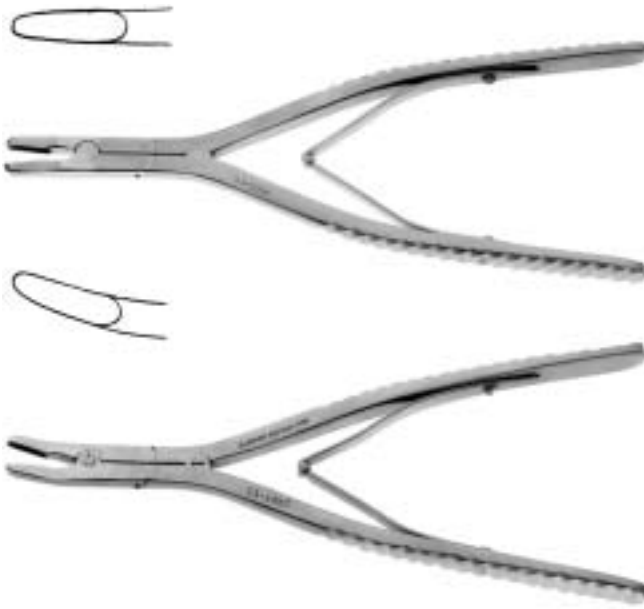
**56-8040** DALE First Rib Rongeur, double-action.  
 Bite  $\frac{1}{8}$ " 3mm  
 Length 14 $\frac{1}{2}$ " (368mm)

ECHLIN Laminectomy Rongeurs,  
 double-action, angular  
 Length 8 $\frac{3}{4}$ " (222mm)  
**53-1045** Bite 2mm  
**53-1046** Bite 3mm  
**53-1047** Bite 4mm



NEUROSURGERY  
MICROSURGERY

# RONGEURS BONE, DOUBLE ACTION



FULTON Laminectomy Rongeurs, cup size 15mm x 16mm narrow blade, double-action.			
	Length	7½"	(191mm)
<b>53-1060</b>	Straight		
<b>53-1061</b>	Slight curved		
	Length	9½"	(241mm)
<b>53-1066</b>	Straight		
<b>53-1067</b>	Slightly curved		



CODMAN LEKSELL Laminectomy Rongeurs, double-action.			
<b>53-1125</b>	Regular curve, wide jaw		
	Bite		8mm
	Length	9"	(229mm)
<b>53-1126</b>	Full curve, wide jaw		
	Bite		8mm
	Length	9"	(229mm)
<b>53-1127</b>	Regular curve, narrow jaw		
	Bite		5mm
	Length	9"	(229mm)
<b>53-1128</b>	Full curve, narrow jaw		
	Bite		5mm
	Length	9"	(229mm)

# RONGEURS BONE, DOUBLE ACTION

**30-1290** RUSKIN Bone Cutting Forceps, double-action.  
Length 7¼" (184mm)



RUSKIN Bone Rongeurs, double-action.  
Length 7¼" (184mm)  
Bite (4mm x 33mm)  
**53-1310** Straight  
**53-1311** Curved  
Bite (5mm x 33mm)  
**53-1312** Straight  
**53-1313** Curved



SMITH-PETERSEN Laminectomy Rongeurs,  
double-action.  
Bite (4mm x 15mm)  
Length 7½" (191mm)  
**53-1080** Straight  
**53-1081** Slightly curved  
Length 9½" (241mm)  
**53-1083** Straight  
**53-1084** Slightly curved  
**53-1085** Full curved



NEUROSURGERY  
MICROSURGERY

# RONGEURS BONE, DOUBLE ACTION

---



STILLE-LUER Rongeurs			
	Bite		10mm (216mm)
<b>53-1130</b>	Length	8½"	
<b>53-1131</b>	Straight		
	Curved		
	Bite		5mm (229mm)
<b>53-1133</b>	Length	9½"	
<b>53-1118</b>	Angular		
	Angular, flat lower jaw		

---



STILLE-LISTON Bone Cutting Forceps, double-action.			
	Length	10½"	(267mm)
<b>30-1295</b>	Straight		
<b>30-1296</b>	Curved		

---

# RONGEURS BONE, DOUBLE ACTION

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



**53-1095** ZAUFAL-JANSEN Rongeur, double-action, curved.  
Bite (4mm x 30mm)  
Length 6¾" (171mm)



# RONGEURS CRANIAL

**53-1040** ADSON Cranial Rongeur, straight.  
Bite (8mm)  
Length 8" (203mm)



**53-1035** BACON Cranial Rongeur, angular.  
Bite ⅜" (5mm)  
Length 7¾" (197mm)



NEUROSURGERY  
MICROSURGERY





# SAWS/HANDLES/GUIDES

GIGLI Saw handles, one pair.

<b>11-1015</b>	Loop	Length	1¾"	(44mm)
<b>11-1016</b>	Solid	Length	2"	(51mm)



STRULLY Gigli Saw Handles, one pair.

<b>11-1020</b>	Loop	Length	3¼"	(95mm)
<b>11-1021</b>	Solid	Length	3½"	(89mm)



NEUROSURGERY  
MICROSURGERY



BAILEY Gigli Saw Guides

	Length	12"	(305mm)
<b>14-1020</b>	Straight		
<b>14-1021</b>	Curved		

# SAWS/HANDLES/GUIDES

---



---

<b>14-1025</b>	POPPEN Gigli Saw Guide		
	Length	11"	(279mm)

---



---

	GIGLI Twisted Wire Saws, package of ten.		
<b>75-1003</b>	Length	12"	(305mm)
<b>75-1004</b>	Length	20"	(508mm)

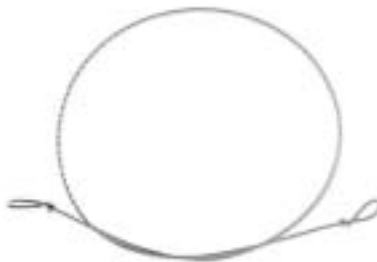
---



---

	TYLER-GIGLI Wire Saws, large cut, package of ten.		
<b>75-1012</b>	Length	20"	(508mm)
<b>75-1013</b>	Length	12"	(305mm)

---



---

	OLIVECRONA-GIGLI Wire Saws, STILLE type, package of ten.		
<b>75-1018</b>	Length	12"	(305mm)
<b>75-1019</b>	Length	16"	(406mm)
<b>75-1020</b>	Length	20"	(508mm)

---

# SCALP CLIPS

- 20-1025** RANEY Scalp Clips  
Stainless steel.  
12 clips/package
- 20-1037** RANEY Scalp Clips  
Sterile, disposable, plastic.  
10 clips/package  
20 packages/case



Use with 20-5115 RANEY Clip Applying Forcep.

- 20-1032** LEROY Scalp Clips, sterile, disposable, plastic.  
Adult  
10 clips/package  
20 packages/case  
Use with 20-5117 LEROY Clip Applying Forcep.
- 20-1035** Infant size  
10 clips/package  
20 packages/case  
Use with 20-5120 LEROY Clip Applying Forcep.



20-1032



20-1035

- 20-1034** LEROY-RANEY Scalp Clips, sterile,  
disposable, plastic.  
10 clips/package  
20 packages/case  
Use with 20-5117 LEROY Clip Applying Forcep.



# SCALP CLIP APPLYING FORCEPS

- 20-5117** LeROY Scalp Clip Applying Forceps  
Adult size for use with 20-1032 or 20-1034  
LeROY clips.  
Length 7¼" (184mm)
- 20-5120** Infant size for use with 20-1035  
Infant LeROY clips.  
Length 7¼" (184mm)



NEUROSURGERY  
MICROSURGERY

# SCALP CLIP APPLYING FORCEPS

---



---

**20-5115** RANEY Scalp Clip Applying Forceps, use with 20-1037 or 20-1025 RANEY clips.  
Length 6¼" (159mm)

---

# SCALP CLIP APPLIERS, DISPOSABLE

---



---

CODMAN DISPOSABLE SCALP CLIP APPLIER, sterile, single use system designed to permit rapid application of scalp clips to the scalp flap for hemostasis during a craniotomy procedure. The applier is designed for one hand use with 12 pre-loaded Leroy-Raney design clips which are easily removed with specially designed CODMAN Disposable Scalp Clip Removal Forceps.

**20-1038** CODMAN Disposable Scalp Clip Applier (10 per box)

**20-1039** CODMAN Disposable Scalp Clip Removal Forceps

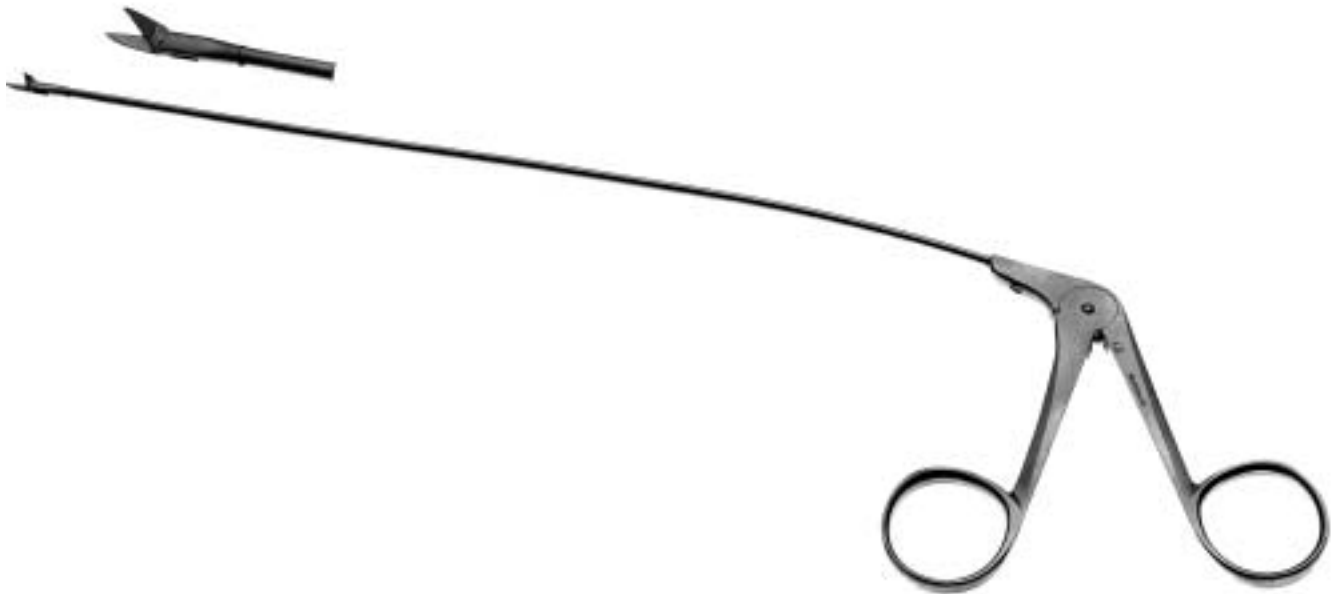
---

# SCISSORS ALLIGATOR

DECKER Microsurgical Scissors, alligator  
action.

Blade length 5mm  
Length 5½" (140mm)

54-5604 Straight  
54-5605 Curved left  
54-5606 Curved right



MICRO Pituitary Style Scissors, alligator action,  
semi-malleable shaft.

Blade Length 2mm  
Length 7½" (200mm)

54-5607 Straight  
54-5608 Curved left  
54-5609 Curved right

NOTE: See additional Scissors in GENERAL Section under  
Scissors.

NEUROSURGERY  
MICROSURGERY

# SCISSORS ALLIGATOR

---



---

**54-1091** SWEET Scissors, straight, alligator blades.  
Blade length  $\frac{3}{8}$ " (10mm)  
Shaft length  $5\frac{1}{2}$ " (140mm)

---

# SCISSORS DURAL

---



---

**54-1055** FRAZIER Dural Scissors  
Length  $6\frac{3}{4}$ " (171mm)

---



---

**54-1046** STRULLY Neurological Scissors,  
curved dissecting tip.  
Length 8" (203mm)

---

# SCISSORS DURAL

---

**54-1050** TAYLOR Dural Scissors  
Length 5<sup>3</sup>/<sub>4</sub>" (146mm)

---

NOTE: See additional Scissors in GENERAL Section under Scissors.



---

# SCISSORS NEUROLOGICAL

---

**54-1005** ADSON Ganglion Scissors, sharp/sharp.  
Length 6<sup>1</sup>/<sub>4</sub>" (159mm)  
**54-1006** Straight  
Curved

---



---

**54-1041** DANDY Trigeminal Scissors, angled shaft,  
curved sharp tips.  
Length 7<sup>3</sup>/<sub>4</sub>" (197mm)

---



---

**54-1015** MALIS Neurological Scissors, curved,  
semi-sharp points.  
Length 7" (178mm)

---



---

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

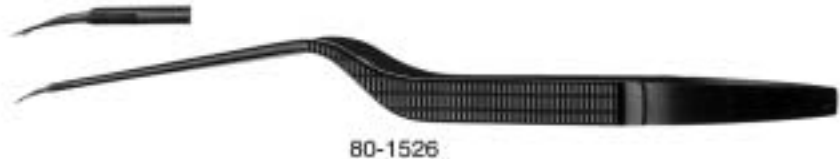
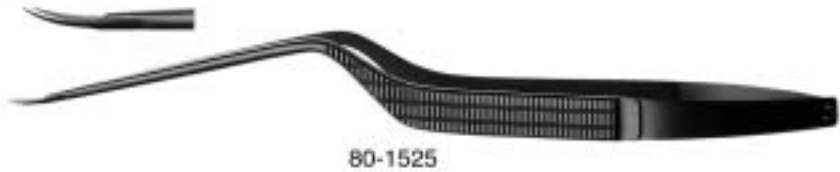
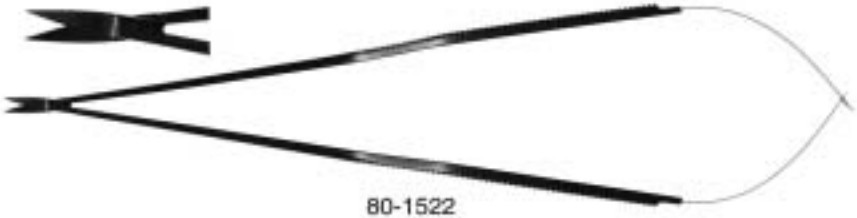
---



NEUROSURGERY  
MICROSURGERY

# SCISSORS MICRO BAYONET

---




---

	MALIS Scissors, TITANIUM, bayonet.	
	Working distance	3¾" (95mm)
	Length	9½" (235mm)
<b>80-1522</b>	Straight, regular tip	
<b>80-1524</b>	Straight, fine tip	
<b>80-1523</b>	Curved up, regular tip	
<b>80-1525</b>	Curved up, fine tip	
<b>80-1526</b>	Curved down, regular tip	

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.

---



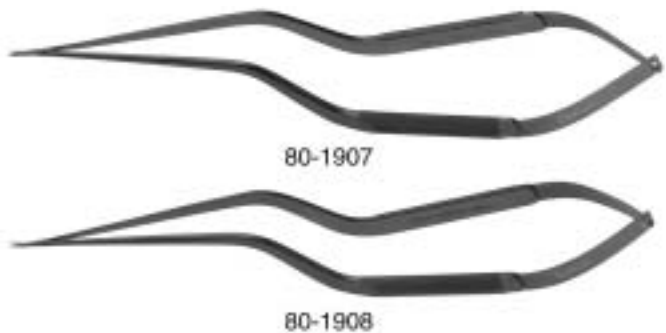
# SCISSORS MICRO BAYONET



	RHOTON Scissors, TITANIUM, bayonet.		
	Working distance	3½"	(89mm)
	Length	8½"	(216mm)
<b>80-1722</b>	Straight tip		
<b>80-1723</b>	Curved tip		
	Working distance	3¾"	(95mm)
	Length	9½"	(240mm)
<b>80-1744</b>	Straight tip		
<b>80-1745</b>	Curved tip		

	SPETZLER Neuro-Vascular Scissors		
	Titanium, bayonet		
	Length	9½"	(241mm)
	Working distance	4"	(100mm)
			Blade length
<b>80-1907</b>	Straight tip		4mm
<b>80-1908</b>	30° curved tip		4mm

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.



NEUROSURGERY  
MICROSURGERY

# SCISSORS MICRO, STRAIGHT



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



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



MALIS Scissors, straight, TITANIUM.  
 Length 6 3/4" (171mm)  
**80-1520** Fine tip  
**80-1521** Curved fine tip

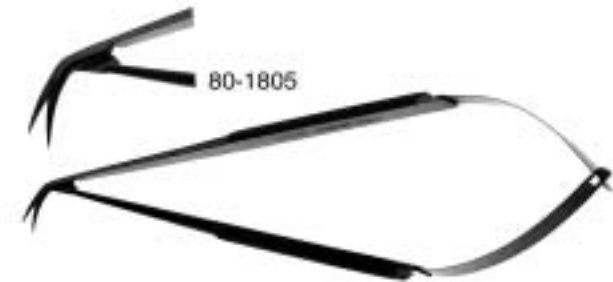
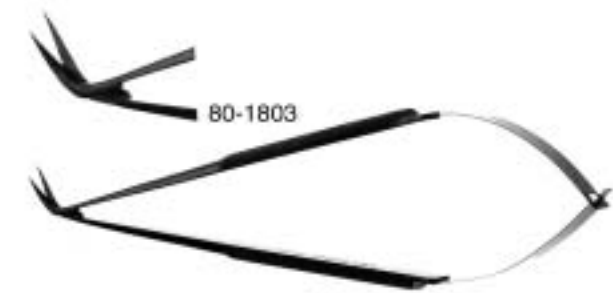


# SCISSORS MICRO, STRAIGHT

---

	MICROVASC* Scissors, TITANIUM	
	Length	7" (178mm)
<b>80-1801</b>	Straight tip	
<b>80-1802</b>	Curved tip	
<b>80-1803</b>	Straight tip, 60° right	
<b>80-1804</b>	Curved tip, 60° right	
<b>80-1805</b>	Curved tip, 60° left	

---




---

	RHOTON Scissors, TITANIUM.	
	Length	7" (178mm)
<b>80-1720</b>	Straight tip	
<b>80-1721</b>	Curved tip	

---

NOTE: See back of NEUROLOGICAL Section for list of all Malis, Rhoton and Spetzler instruments.



NEUROSURGERY  
MICROSURGERY

# SCISSORS MICRO, STRAIGHT



	MICRO Scissors		
	Length	5½"	(140mm)
<b>80-2005</b>	Straight tip		
<b>80-2006</b>	Curved tip		
	Length	7"	(178mm)
<b>80-2015</b>	Straight tip		
<b>80-2016</b>	Curved tip		

# SEPARATORS



<b>65-1104</b>	DORSEY Dural Separator, with groove in blade for knife.		
	Blade width	¾"	(5mm)
	Blade length	1½"	(17mm)
	Total length	6"	(165mm)



<b>65-1100</b>	FRAZIER Dural Separator, tapered blade width ¼" to ⅛" (2 to 3mm).		
	Blade depth	½"	(13mm)
	Total length	6½"	(165mm)



	HOEN Dural Separators		
<b>65-1101</b>	90° angle		
	Blade width	⅛"	(3mm)
	Blade length	½"	(13mm)
	Total length	6"	(152mm)
<b>65-1102</b>	45° angle		
	Blade width	⅛"	(3mm)
	Blade length	½"	(13mm)
	Total length	6½"	(165mm)



<b>65-1108</b>	SACHS Nerve Separator-Spatula		
	Length	7¾"	(197mm)

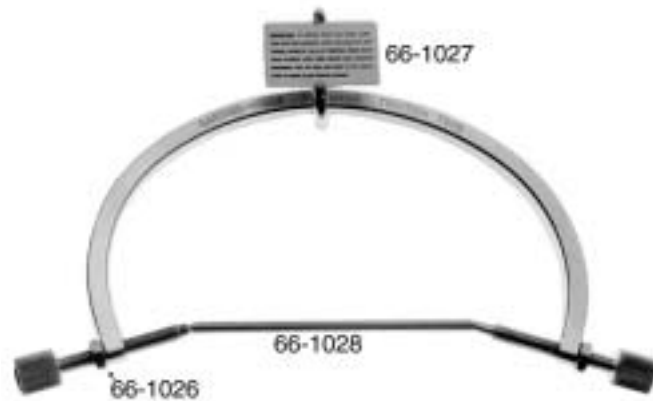
## SEPARATORS

<b>65-1135</b>	WOODSON Dural Separator and Packer, double-ended with groove in blade.		
	Blade width	1/8"	(3mm)
	Blade length	1/2"	(13mm)
	Total length	7"	(178mm)



## SKULL TONGS

<b>66-1025</b>	GARDNER-WELLS Skull Tongs with one spring-loaded point for cervical traction. Maximum opening 6 1/4" (159mm) Includes:		
<b>66-1026</b>	Adjustment nuts (sold each).		
<b>66-1027</b>	S-Hook		
<b>66-1028</b>	Test Bar		



## SPATULAS/SPOONS BRAIN

	CUSHING Brain Spatula-Spoons, double-ended.		
<b>60-1010</b>	Cup widths	1/2" & 3/4"	(13 & 19mm)
	Length	6 3/4"	(171mm)
<b>60-1011</b>	Cup widths	3/4" & 1"	(19 & 25mm)
	Length	7 3/4"	(197mm)



# SPATULAS/SPOONS BRAIN

---



DAVIS Brain Spatulas, double-ended,  
malleable, nickel-silver.

	Length	7"	(178mm)
<b>59-1080</b>	Width	1/4"	(6mm)
<b>59-1081</b>	Width	3/8"	(10mm)
<b>59-1082</b>	Width	1/2"	(14mm)
<b>59-1083</b>	Width	5/8"	(16mm)
<b>59-1084</b>	Width	3/4"	(19mm)
<b>59-1085</b>	Width	1"	(25mm)
<b>59-1086</b>	Width	1 1/4"	(32mm)
<b>59-1087</b>	Width	1 1/2"	(38mm)

---



SCOVILLE Brain Spatulas, double-ended,  
malleable.

	Length	8"	(203mm)
<b>59-1070</b>	Blade widths	3/8" & 1/2"	(10 & 13mm)
<b>59-1071</b>	Blade widths	5/8" & 3/4"	(16 & 19mm)

---



**59-1000** WOODSON Elevator and Spatula, double-  
ended, semi-sharp.

	Blade width	1/8"	(3mm)
	Blade depth	1/2"	(13mm)
	Total length	10"	(254mm)

---

# SPATULAS/SPOONS PITUITARY



CUSHING Pituitary Spoons, malleable copper, silver plated.

	Total length	9¼"	(235mm)
<b>60-1000</b>	No. 1 Cup		
	Cup width	¼"	(6mm)
	Cup length	⅜"	(10mm)
<b>60-1001</b>	No. 2 Cup		
	Cup width	⅝"	(8mm)
	Cup length	½"	(13mm)
<b>60-1002</b>	No. 3 Cup		
	Cup width	⅝"	(8mm)
	Cup length	⅝"	(16mm)
<b>60-1003</b>	No. 4 Cup		
	Cup width	⅜"	(10mm)
	Cup length	⅝"	(16mm)



<b>80-1336</b>	HARDY Pituitary Spoon, bayonet, malleable.		
	Working distance	4¾"	(120mm)
	Length	9¼"	(235mm)

NEUROSURGERY  
MICROSURGERY

# SPONGE BICOL

---



**80-1460** BICOL\* Collagen Sponge, sterile.  
The BICOL Sponges are 3" (76mm) x 4" (102mm) and packaged individually sterile, sold ten packages per box.

---

# STRIPS

---



CODMAN Surgical Strips, sterile, X-ray detectable, 10 strips per package, 20 packages per dispenser box.

<b>80-1449</b>	1/8" x 6"	(3 x 152mm)
<b>80-1450</b>	1/4" x 6"	(6 x 152mm)
<b>80-1451</b>	1/2" x 6"	(13 x 152mm)
<b>80-1452</b>	3/4" x 6"	(19 x 152mm)
<b>80-1453</b>	1" x 6"	(25 x 152mm)
<b>80-1454</b>	1 1/2" x 6"	(38 x 152mm)
<b>80-1455</b>	2" x 6"	(51 x 152mm)
<b>80-1456</b>	3" x 6"	(76 x 152mm)
<b>80-1457</b>	3 1/2" x 6"	(89 x 152mm)

---



# SUCTION TUBES

	ADSON Suction Tubes, curved tip, with thumb piece to control suction.		
<b>70-1146</b>	Diameter	12 Fr.	
	Length	5½"	(140mm)
<b>70-1148</b>	Diameter	15 Fr.	
	Length	7½"	(191mm)

Tube length is measured from top of socket to tip.



<b>16-1014</b>	CONE-BUCY Coagulation Suction Cannula Set, complete with one handle, three insulated suction tubes, and one 29-1002 BUCY-FRAZIER Cord, 11' (3.4m) length. Handle has luer-lock hub and is insulated.		
	Cannula length	4½"	
	Cannula diameter	9 Fr.	
	Cannula diameter	12 Fr.	
	Cannula diameter	16 Fr.	

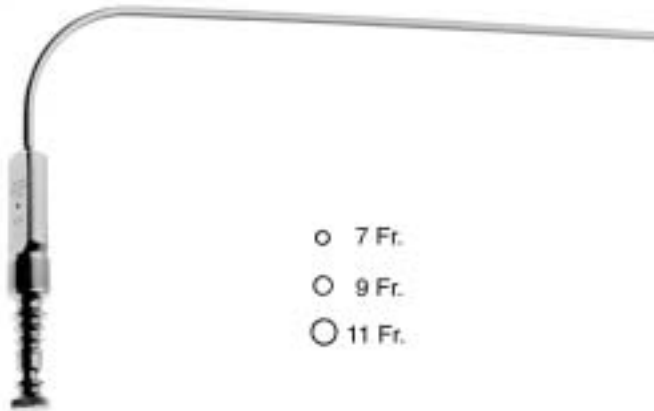


NEUROSURGERY  
MICROSURGERY

	FRAZIER Suction Tubes, straight, with thumb piece to control suction.		
	Tubing length	5¼"	(133mm)
<b>70-1100</b>	Diameter	7 Fr.	
<b>70-1101</b>	Diameter	9 Fr.	
<b>70-1102</b>	Diameter	11 Fr.	



# SUCTION TUBES



- 7 Fr.
- 9 Fr.
- 11 Fr.

FRAZIER Suction Tubes, with thumb piece to control suction.		
	Tubing length	4½" (114mm)
	Diameter	7 Fr.
<b>70-1079</b>	Angular	
<b>70-1005</b>	Angular insulated	
	Diameter	9 Fr.
<b>70-1080</b>	Angular	
<b>70-1006</b>	Angular insulated	
	Diameter	11 Fr.
<b>70-1081</b>	Angular	
<b>70-1007</b>	Angular insulated	
	Tubing length	7½" (191mm)
	Diameter	7 Fr.
<b>70-1087</b>	Angular	
<b>70-1015</b>	Angular insulated	
	Diameter	9 Fr.
<b>70-1088</b>	Angular	
<b>70-1016</b>	Angular insulated	
	Diameter	11 Fr.
<b>70-1089</b>	Angular	
<b>70-1017</b>	Angular insulated	

Use 29-1003 FRAZIER cord with cautery attachment.



HARDY Suction Tubes, angular with thumb control, insulated.		
	Diameter	7 Fr.
	Length	7¼" (184mm)
<b>80-1360</b>	Curved left	
<b>80-1361</b>	Curved right	

# SUCTION TUBES

MALIS-FRAZIER Suction Tubes, black anodized.

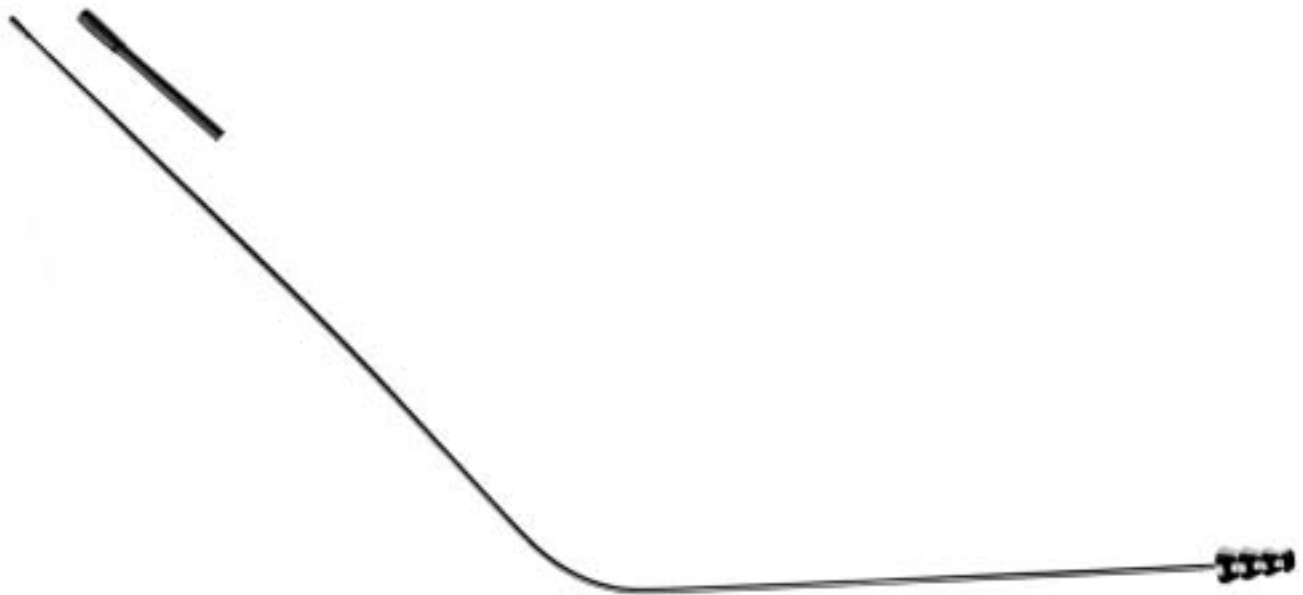
	Diameter	7 Fr.	
<b>70-1103</b>	Length	4¼"	(108mm)
<b>70-1104</b>	Length	7½"	(191mm)



<b>70-1175</b>	MASON Suction Tube, with cautery attachment and insulation. Use 29-1002 BUCY-FRAZIER or C.S.V. Bovie cord as a special order.		
	Diameter	9 Fr.	
	Tubing length	9"	(229mm)

# SUCTION TUBES

---



YASARGIL Micro Suction Tubes			
	Length	14"	(348mm)
<b>80-1620</b>	Small	Outside diameter	1.7mm
<b>80-1621</b>	Medium	Outside diameter	2.5mm
<b>80-1622</b>	Large	Outside diameter	3.5mm

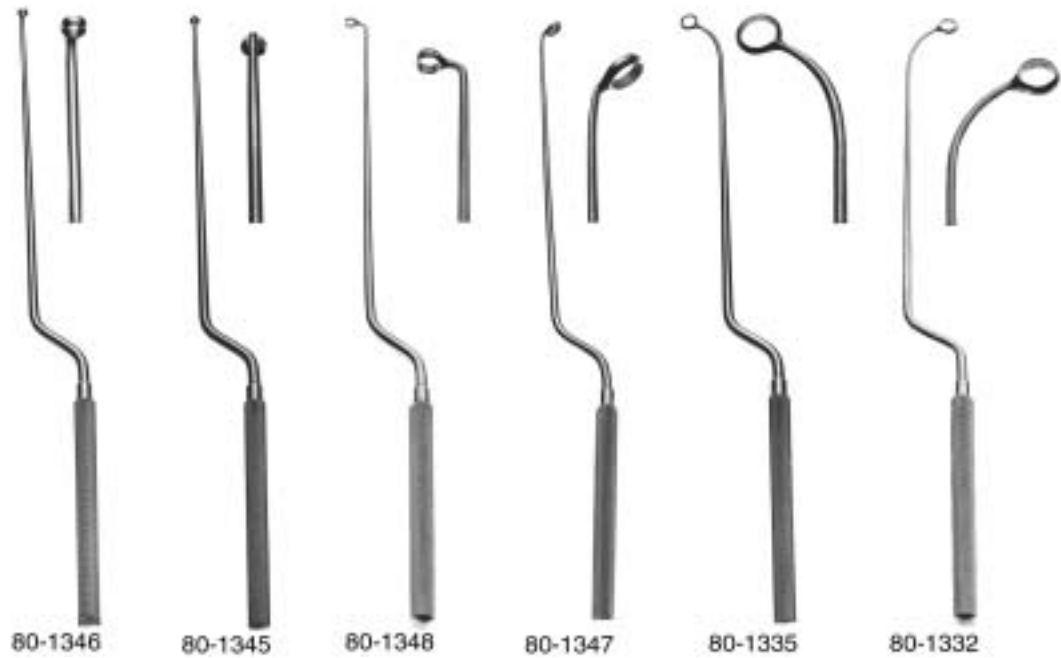


PRIBRAM Suction Tubes, with thumb piece to control suction.			
	Tubing length	5½"	(140mm)
<b>70-1128</b>	Diameter	16 G.	
<b>70-1130</b>	Diameter	18 G.	



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

# TRANSSPHENOIDAL HARDY



HARDY Currettes, bayonet.		
	Working distance	4 <sup>3</sup> / <sub>4</sub> " (120mm)
	Total length	9 <sup>1</sup> / <sub>2</sub> " (241mm)
	Type	Tip Width
<b>80-1346</b>	Angled up	3mm
<b>80-1331</b>	Angled up	5mm
<b>80-1345</b>	Angled down	3mm
<b>80-1330</b>	Angled down	5mm
<b>80-1348</b>	90° Left	3mm
<b>80-1333</b>	90° Left	5mm
<b>80-1347</b>	45° Right	3mm
<b>80-1334</b>	45° Right	5mm
<b>80-1335</b>	Curved left	5mm
<b>80-1332</b>	Curved right	5mm

# TRANSSPHENOIDAL HARDY

---



---

#### HARDY Eucleators.

Working distance  $4\frac{3}{4}$ " (120mm)

Length  $9\frac{1}{2}$ " (241mm)

Type Tip Width

**80-1311** Left micro 2.4mm

**80-1312** Right micro 2.4mm

**80-1325** Left 3.4mm

**80-1326** Right 3.4mm

**80-1329** Reverse curve 3.4mm

The flat of the handle should be down for orientation of working end through the speculum.

---

# TRANSSPHEROIDAL HARDY

	HARDY Micro Dissector, bayonet.		
	Working distance	4¾"	(120mm)
	Length	9½"	(241mm)
	Type		Tip Width
80-1315	Angled up		2mm
80-1316	Angled down		2mm



	HARDY Knife Handle, bayonet.		
	Working distance	4¾"	(121mm)
	Total length	9½"	(241mm)
80-1313	Vertical		
80-1314	Lateral		



80-1366	HARDY Transsphenoidal Mirror, bayonet shape.		
	Working distance	4½"	(114mm)
	Tip width		5.0mm
	Length	9"	(229mm)

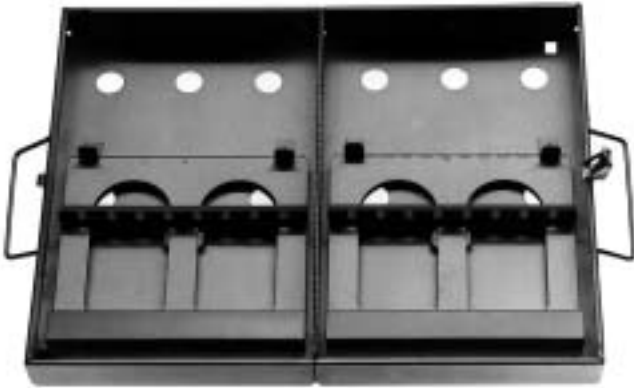


80-1328	HARDY Fork, bayonet, three prong.		
	Working distance	3½"	(89mm)
	Length	9½"	(241mm)



80-1336	HARDY Pituitary Spoon, bayonet, malleable.		
	Working distance	4¾"	(120mm)
	Length	9¼"	(235mm)

# TRANSSPHENOIDAL HARDY



<b>80-1355</b>	HARDY Instrument Case, with removable panels, holds approximately 16 bayonet dissectors. (does not hold bipolar forceps.)		
	Length	11"	(279mm)
	Width	7"	(178mm)
	Depth	2¼"	(57mm)



	HARDY Sella Punch		
	Length	7"	(178mm)
<b>80-1344</b>	40° Up	Bite	1mm
<b>80-1340</b>	40° Up	Bite	2mm
<b>80-1341</b>	90° Up	Bite	2mm
<b>80-1342</b>	90° Down	Bite	2mm
<b>80-1343</b>	40° Down	Bite	2mm



# TRANSSPHENOIDAL HARDY

**80-1337** HARDY Lip Retractor is placed around the upper edge of a HARDY Nasal Speculum to keep the prolapsing upper lip out of the narrow field between the two valves during transsphenoidal procedures.



HARDY Nasal Bivalve Specula, black anodized finish, except knob.

<b>80-1350</b>	Small	Length	2¾"	(70mm)
<b>80-1351</b>	Acromegalic	Length	3½"	(90mm)
<b>80-1352</b>	Standard	Length	3⅞"	(80mm)



HARDY Suction Tubes, angular with thumb control, insulated.

	Diameter	7 Fr.	
	Length	7¼"	(184mm)
<b>80-1360</b>	Curved left		
<b>80-1361</b>	Curved right		



NEUROSURGERY/  
MICROSURGERY

# VESSEL SUPPORTER

---



---

**80-1534** MALIS Vessel Supporter, TITANIUM handle,  
stainless steel shaft, two prong.  
Length  $7\frac{3}{8}$ " (187mm)

---

NOTE: See back of NEUROSURGICAL Section for list of all  
Malis, Rhoton and Spetzler instruments.

---

# MALIS TITANIUM MICROSURGICAL INSTRUMENTS



**LIGHTER-** our titanium alloy is 43% lighter than stainless steel. Lightness means less fatigue, particularly during long procedures.

**STRONGER-** Titanium is considerably stronger than stainless steel so the working end can be made more delicate.

**CORROSION-RESISTANT-** The titanium alloy used in CODMAN Microsurgical instruments is far more corrosion resistant than stainless steel, so worries about rusting and pitting are virtually eliminated.

## **Straight Instruments 6" - 15.2cm**

- 80-1500** Forceps, 0.7mm tip
- 80-1501** Forceps, 0.45mm tip
- 80-1508** Forceps, extra-fine 0.25mm tip
- 80-1510** Needle Holder, straight tip, 1.0mm
- 80-1511** Needle Holder, curved tip, 1.0mm
- 80-1514** Needle Holder, fine curved tip, 0.5mm
- 80-1520** Scissors, straight fine tip
- 80-1521** Scissors, curved fine tip
- 80-1552** Bipolar Forceps, 0.45 tip
- 80-1557** Bipolar Forceps, extra-fine tip, 0.25mm

## **Bayonet Shaped Instruments 8¾" - 22.2cm**

- 80-1502** Forceps, straight tip, 0.7mm
- 80-1503** Forceps, straight tip, 0.45mm
- 80-1509** Forceps, straight extra-fine tip 0.25mm
- 80-1504** Forceps, curved up tip, 0.7mm
- 80-1506** Forceps, curved down tip, 0.7mm
- 80-1505** Forceps, angled up tip, 0.45mm
- 80-1507** Forceps, angled down tip, 0.45mm
- 80-1512** Needle Holder, straight tip, 1.0mm
- 80-1513** Needle Holder, curved tip, 1.0mm
- 80-1515** Needle Holder, fine straight tip, 0.5mm
- 80-1522** Scissors, straight regular tip
- 80-1523** Scissors, curved up regular tip
- 80-1526** Scissors, curved down regular tip
- 80-1524** Scissors, straight fine tip
- 80-1525** Scissors, curved up fine tip
- 80-1550** Bipolar Forceps, straight tip, 0.45mm
- 80-1553** Bipolar Forceps, straight tip, 0.95mm
- 80-1551** Bipolar Forceps, straight tip, 1.5mm
- 80-1554** Bipolar Forceps, angled up tip, 0.45mm
- 80-1555** Bipolar Forceps, angled down tip, 0.45mm
- 80-1556** Bipolar Forceps, curved up tip, 0.7mm
- 80-1558** Bipolar Forceps, straight extra-fine tip 0.25mm

## **OTHER MALIS INSTRUMENTS**

### **7"-18cm**

- 80-1530** Ligature Passer 3mm hook
- 80-1531** Nerve Hook, 3mm with ball
- 80-1532** Nerve Hook, 2mm
- 80-1533** Nerve Hook, 3mm
- 80-1534** Vessel Supporter, with 2 malleable prongs
- 80-1535** Dissector, angled curved edge
- 80-1539** Dissector, angled, sharp on three sides
- 80-1536** Bayonet Curette
- 80-1537** Straight Elevator, curved tip
- 80-1538** Bayonet Elevator, curved tip
- 80-1541** Round Dissector, 1mm
- 80-1540** Round Dissector, 2mm
- 80-1542** Round Dissector, 3.5mm

# RHOTON TITANIUM MICROSURGICAL INSTRUMENTS

## Rhoton Straight - 7"/17.5cm

<b>80-1700</b>	Forceps, Extra Fine, .3mm
<b>80-1701</b>	Forceps, Fine, .7mm
<b>80-1704</b>	Bipolar Forceps, Fine, .5mm
<b>80-1705</b>	Bipolar Forceps, Reg., 1.0mm
<b>80-1720</b>	Scissors, Straight Tip
<b>80-1721</b>	Scissors, Curved Tip
<b>80-1725</b>	Needle Holder, Curved Fine Tip, .5mm
<b>80-1726</b>	Needle Holder, Straight Tip
<b>80-1727</b>	Needle Holder, Curved Tip
<b>80-1731</b>	Micro Tissue Forceps, 1x2 Tooth
<b>80-1732</b>	Micro Dressing Forceps, Serrated

## Rhoton Bayonets -

### 8-½"/22cm-Working Distance, 8cm

<b>80-1702</b>	Forceps, Fine, .5mm
<b>80-1703</b>	Forceps, Regular, 1.0mm
<b>80-1706</b>	Bipolar Forceps, Fine, .5mm
<b>80-1708</b>	Bipolar Forceps, Regular, 1.0mm
<b>80-1722</b>	Scissors, Straight Tip
<b>80-1723</b>	Scissors, Curved Tip
<b>80-1728</b>	Needle Holder, Straight Tip
<b>80-1729</b>	Needle Holder, Curved Tip
<b>80-1736</b>	Tumor Forceps, 4mm Ring

### 9-½"/24cm-Working Distance, 9.5cm

<b>80-1740</b>	Bipolar Forceps, Fine, .5mm
<b>80-1741</b>	Bipolar Forceps, Medium, .7mm
<b>80-1742</b>	Bipolar Forceps, Regular, 1.0mm
<b>80-1743</b>	Bipolar Forceps, 1.5mm
<b>80-1744</b>	Scissors, Straight Tip
<b>80-1745</b>	Scissors, Curved Tip
<b>80-1746</b>	Needle Holder, Straight Tip
<b>80-1747</b>	Needle Holder, Curved Tip
<b>80-1748</b>	Tumor Forceps
<b>80-1749</b>	Forceps, Serrated Tip, 1.5mm

### 9-½"/24cm-Working Distance, 10cm

<b>80-1711</b>	Bipolar Forceps, Fine, .5mm
<b>80-1713</b>	Bipolar Forceps, Regular, 1.0mm

### 10-¼"/26cm-Working Distance, 12cm

<b>80-1715</b>	Bipolar Forceps, .7mm
----------------	-----------------------



The Rhoton Micro Dissector Set is designed for use during aneurysm or tumor dissections, and has particular application for acoustic neuromas. Each of the instruments is made from titanium for purposes of balance, durability, and corrosion resistance. The handles of the instruments are made from titanium for purposes of balance and durability and the working ends are stainless steel.

## 80-1660 Rhoton Micro Dissectors and Case

A.	<b>80-1680</b>	Round Dissector, Small #1
B.	<b>80-1681</b>	Round Dissector, Medium #2
C.	<b>80-1682</b>	Round Dissector, Large #3
D.	<b>80-1683</b>	General Purpose Elevator, Small #4
E.	<b>80-1684</b>	General Purpose Elevator, Large #5
F.	<b>80-1685</b>	Spatula Dissector, Small #6
G.	<b>80-1686</b>	Spatula Dissector, Medium #7
H.	<b>80-1687</b>	Spatula Dissector, Large #8
I.	<b>80-1688</b>	Semi-Sharp Hook, 90°, #9
J.	<b>80-1689</b>	Blunt Hook, 90°, #10
K.	<b>80-1690</b>	Semi-Sharp Hook, 45°, #11
L.	<b>80-1691</b>	Straight Point Needle, #12
M.	<b>80-1692</b>	Micro Curette, Small #13
N.	<b>80-1693</b>	Micro Curette, Large #14
O.	<b>80-1661</b>	Sterilizing - Carrying Case
P.	<b>80-1679</b>	Teardrop Dissector, Straight, #15
Q.	<b>80-1696</b>	Teardrop dissector, 90°, #16, 3mm
R.	<b>80-1697</b>	Teardrop dissector, 90°, #17, 5mm
S.	<b>80-1698</b>	Teardrop dissector, 40°, #18, 4mm
T.	<b>80-1699</b>	Teardrop dissector, 40°, #19, 8mm

# SPETZLER NEURO-VASCULAR INSTRUMENTS

Designed for deep neuro-vascular repair, the SPETZLER titanium microsurgical instruments offer an unprecedented advantage.

The extra working length, coupled with the distinct bayonet design, will facilitate their use on deep microsurgical procedures such as:

- Bypass of the superficial temporal artery to the posterior cerebral artery
- Bypass of the superficial temporal artery to the superior cerebral artery
- Arteriovenous malformation
- Intracranial aneurysms
- Posterior fossa applications

Slim design.

**Offers easier access through a narrow opening.**

10 cm working distance.

**For deep vascular repair.**

Titanium.

**Lightweight, non-corrosive, non-magnetic.**

Tungsten coated needleholder.

**Aromatic, firm grasp of suture.**

Soft tension. (75 gms)

**Minimizes hand tremor.**

Fine tips.

**Precise manipulation of tissue and suture.**

Complete set.

**Provides a coordinated approach for deep vascular surgery.**



- 80-1900** Small Teardrop Dissector, bayonet, angled up 30°
- 80-1901** Small Teardrop Dissector, bayonet, angled up 90°
- 80-1902** Small Spatula Dissector, bayonet, angled up 30°
- 80-1903** Bayonet Bipolar Forceps, straight tip .7mm
- 80-1904** Bayonet Bipolar Forceps, 30° angled tip .7mm
- 80-1905** Bayonet Platform Forceps, straight tip .7mm
- 80-1906** Bayonet Platform Forceps, 30° angled tip .7mm
- 80-1907** Bayonet Scissor, straight tip, 4mm blade length
- 80-1908** Bayonet Scissor, 30° curved tip, 4mm blade length
- 80-1909** Bayonet Needleholder, with catch, 30° curved tip, tungsten coated.
- 80-1910** Micro Vari-Angle Temporary Clip Applier, 30° angled up
- 80-1915** Spetzler Neuro-Vascular Kit, 11 instruments and sterilizing tray

NEUROSURGERY  
MICROSURGERY



# ADVANCED MONITORING NEUROTREND

CODMAN® NEUROTREND Cerebral Tissue Monitoring System. This new technology provides critical information on PO<sub>2</sub>, PCO<sub>2</sub>, pH, and temperature in brain tissue to assist the neurosurgeon in effecting positive outcomes.

## Trama Applications

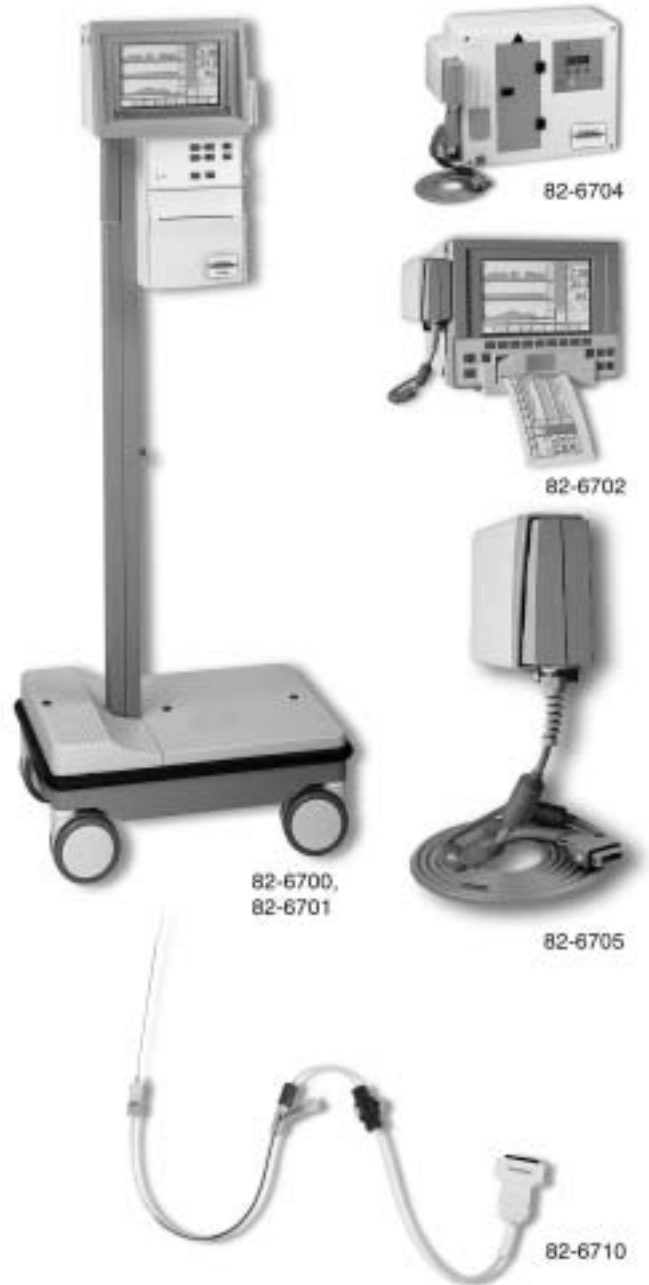
- NEUROTREND can help detect ischemic conditions through O<sub>2</sub> and pH measurement.
- CPP optimization for each patient.
- It can also assist with optimization of FiO<sub>2</sub> through ventilator management.

## Cerebrovascular Applications

- NEUROTREND can detect local ischemic events interoperatively during parent vessel clipping.\*
- It can also help in the early detection of vasospasm following subarachnoid hemorrhage.

<b>82-6700</b>	Senior Monitoring System (100V-120V)
<b>82-6701</b>	Senior Monitoring System (220V-240V)
<b>82-6702</b>	Satellite Monitor
<b>82-6704</b>	Calibrator
<b>82-6705</b>	Patient Data Module
<b>82-6710</b>	Multi Parameter Sensor (ea.)
<b>82-6711</b>	Multi Parameter Sensor (5 per case)
<b>82-6712</b>	Calibration Gas Pack
<b>82-6713</b>	Printer Paper
<b>82-6720</b>	Sensor Introducer Kit
<b>82-6721</b>	Single Lumen Bolt Kit
<b>82-6722</b>	Double Lumen Bolt Kit

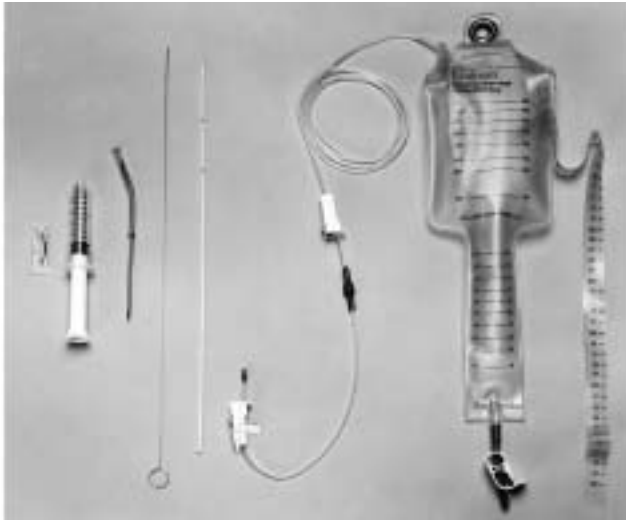
\*Hoffman WE, Charbel FT, Abood C, Ausman, JI. Regional ischemia during cerebral bypass surgery. Surg Neurol 1997; 455-9



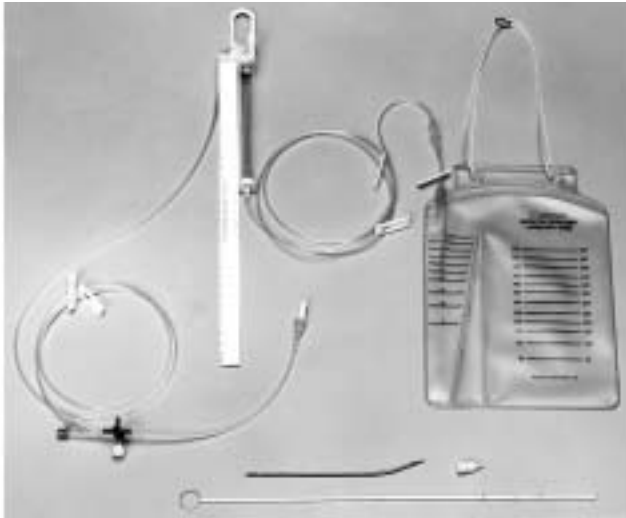
# DRAINAGE/MONITORING

## EXTERNAL DRAINAGE

---



- 82-1687** HOLTER® External Drainage System  
Sterile, disposable. includes tubing clamps, one way valve, injection and sampling site, stainless steel tubing connector, Plastic collection bag with 50cm pressure-measuring tape and drain with clamp, 38cm, radiopaque, silicone catheter, 40.6cm stylet for catheter placement, Subgaleal trocar, 7cc syringe for irrigation and priming.
- 82-1688** HOLTER External Drain Replacement Bag, includes PVC tube with clamps, injection site, collection bag, does not include one-way valve. One/package in a sterile disposable pouch.
- 



The CODMAN External Drainage System provides a sterile path, closed from the ventricular catheter to the bag. The kit (82-1700) contains all internal and external components of the system, including a 35cm radiopaque silicone ventricular catheter (1.5mm I.D.; 3.1mm O.D.); 57cm of vinyl tubing equipped with two clamps, a four-way stop cock with a female luer lock port for monitoring, and injection/sampling site; an anti-reflux sterile vented 20cc drip chamber with 30cm tape measure for regulating intracranial pressure and a sterile, vented 650ml capacity graduated vinyl collection bag with 114cm of vinyl tubing with two clamps.

A 36cm straight stainless steel stylet for catheter placement, a curved stainless steel trocar with a barbed end for drawing the catheter subcutaneously and female luer lock cap for the distal end of the catheter are packaged with the catheter in a sterile peel pouch within the tray package

- 82-1700** CODMAN EXTERNAL DRAINAGE SYSTEM (sterile)
- 82-1701** Collection Bag with Tubing (sterile).
- 82-1702** Collection Bag only (sterile). Five per package.
- 82-1703** Pole clamp (non-sterile).
-



# DRAINAGE/MONITORING EXTERNAL DRAINAGE

CODMAN External Drainage System II (EDS II), sterile, closed system, integral package with set up instructions clearly marked on the backboard. Attaches to I.V. pole by manifold clamp. Enlarged anti-reflex, movable 75 ml drip chamber calibrated for small I.C.P. measurement, marked in millimeters of mercury and centimeters of water; 700 ml graduated Collection Bag with self-sealing latex-free injection/sampling site. 62 inch (157 cm) patient line with two clamps, two four-way stopcocks select drainage, pressure monitoring, CSF sampling or fluid injection; stopcock at "0" setting on backboard and additional stopcock near patient.

13.8 inch (35 cm) radiopaque silicone ventricular catheter with placement stylet, trocar, luer lock and cap.

- 82-1720** CODMAN External Drainage System II- Complete (Sterile) with Ventricular Catheter
- 82-1721** CODMAN External Drainage System II (Sterile) without Ventricular Catheter
- 82-1722** CODMAN External Drainage System II - Replacement Collection Bags (Sterile) - Package of 5
- 82-1723** CODMAN External Drainage System II-Manifold Pole Clamp (Non-Sterile)
- 82-1724** CODMAN External Drainage System II with the GHAJAR™ Guide Ventriculostomy Kit (Sterile)
- 82-1704** CODMAN Disposable I.C.P. Monitoring Line (Sterile)
- 82-1705** CODMAN External Drainage Ventricular Catheter Set (Sterile)
- 82-1706** CODMAN Lumbar External Drainage Catheter with Touhy Needle (Sterile) and Luer Lock Connector



NOTE: Instructions in six languages: English, French, German, Japanese, Italian, and Spanish.

- 82-1725** EDS-II QUICKLINE® Leveling Device  
A leveling device to facilitate proper alignment of the EDS-II (82-1720, 82-1721, 82-1724) to the patients' correct reference point. The QuickLine attaches directly to the EDS II tray.



INTRACRANIAL  
PRESSURE

# DRAINAGE/MONITORING

## EXTERNAL DRAINAGE

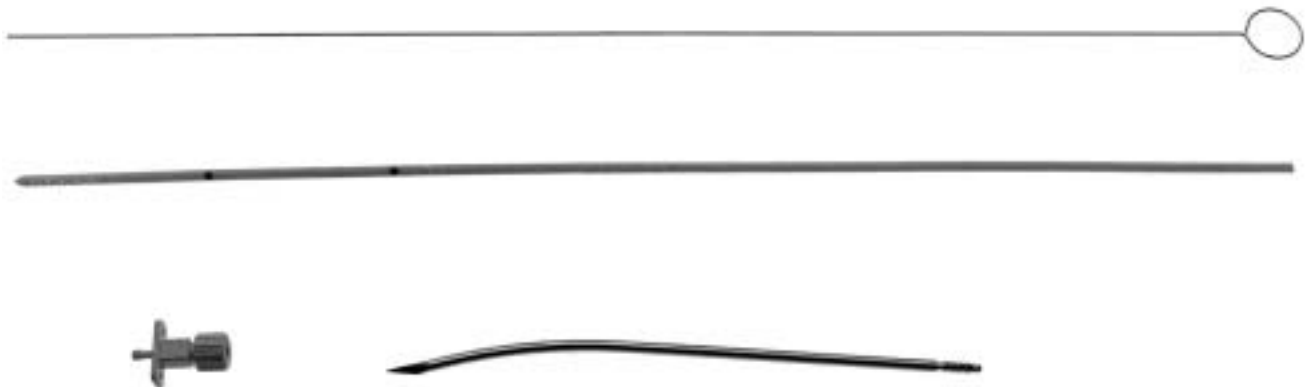
---



---

**82-1704** CODMAN Disposable ICP Monitoring Line, sterile, provides a means of connecting a ventricular catheter to equipment for monitoring intracranial pressure. A four-way stopcock selects pressure monitoring, drainage, CSF sampling or fluid injection. Supplied with female luer lockport for attachment to drainage system. Use with 82-1705 CODMAN External Drainage Ventricular Catheter Set and 82-1701 CODMAN External Drainage Collection Bag and Tubing Set. Tube length (280mm)

---



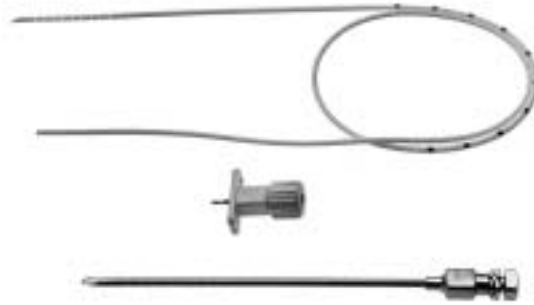
---

**82-1705** CODMAN External Drainage Ventricular Set, sterile, designed to drain CSF from ventricles of the brain. Set includes: Two (2) 35cm radiopaque silicone ventricular catheters (1.5mm I.D., 3.1mm O.D.), 36cm straight stylet, curved trocar, luer lock connector. Can be used with 82-1701 CODMAN External Drainage Collection Bag and Tubing Set and 82-1704 CODMAN Disposable ICP Monitoring Line.

---

# DRAINAGE/MONITORING EXTERNAL DRAINAGE

**82-1706** CODMAN Lumbar External Drainage Kit, sterile, used for temporary access to the Lumbar Subarachnoid region as a means of draining CSF to reduce increased intercranial volume and pressure. Consists of a 46cm silicone Lumbar Catheter (I.D. 0.76mm, O.D. 1.65mm), a 14G Touhy Needle with Huber point, a (female Luer Lock Connector and cap for connection to monitoring or CSF collection equipment. 10 Tantalum location markings on catheter. Must be used in conjunction with the CODMAN Drainage collection bag and Tubing Set (82-1701 or 82-1721).



**CODMAN Lumbar Drainage Catheter Kit II**  
The CODMAN Lumbar Drainage Catheter Kit II consists of a lumbar catheter 80cm in length with a closed tip and side holes to allow for drainage without clogging. A Teflon-coated precoiled steel guide wire (approx. 100cm) with an adjustable stop is also included. This kit includes a 14-gauge touhy needle with a clear plastic flash back chamber, centimeter markings, and wings for leverage and ease of use. A female luer lock connector and suture clips made of soft silicone allow for easy connection and attachment to patient.

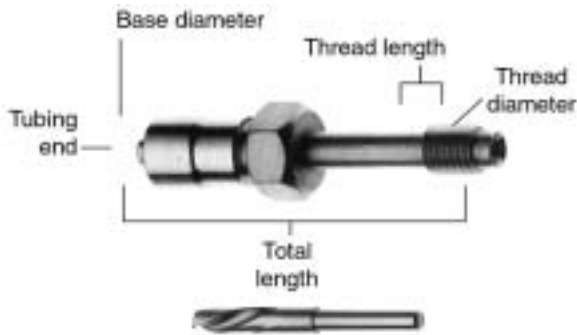
- 80cm Radiopaque Catheter
- Unique drainage hole pattern with enlarged hole diameter
- 100cm guide wire with dispenser
- 14 gauge touhy needle with 1cm depth markings
- Low profile female luer lock

**82-1707** CODMAN Lumbar Drainage Catheter Kit II  
**82-1708** CODMAN Lumbar Drainage Catheter Kit II with EDS I (82-1701)  
**82-1709** CODMAN Lumbar Drainage Catheter Kit II with EDS II (82-1721)



# DRAINAGE/MONITORING SUBARACHNOID SCREW

---



---

**80-1180** RICHMOND Subarachnoid Screw, for monitoring intracranial pressure. Attaches through tubing set to intracranial monitor or transducer.

Tubing end diameter	5mm
Base diameter	9.5mm
Thread diameter	6mm
Thread length	6mm
Total length	48mm

**80-1181** RICHMOND Subarachnoid Twist Drill drills a (5.9mm) hole for the insertion of RICHMOND Subarachnoid Screw (80-1180). Use 26-1080 BUNNELL Hand Drill with 80-1181 Drill.

---



---

**80-1182** RICHMOND Subarachnoid Wrench fits on RICHMOND Subarachnoid Screw (80-1180). Allows surgeon to twist screw into seated position.

---

# DRAINAGE/MONITORING SUBARACHNOID SCREW

CODMAN™ Disposable ICP Kit, contains the components needed to implant a subarachnoid screw for the monitoring of intracranial pressure. The kit is available as a complete sterile procedural tray. Each tray is available in an adult and pediatric size and comes with either metal or plastic subarachnoid screws.

**Complete Kit**  
Subarachnoid Screw, Drill Assembly, Vial of Xylocaine, 5 ml Self-retaining Retractor, 5cc Syringe 22 gauge, 1cc Syringe 25 gauge, Spinal Needle 18 gauge, Drapes, Scapel #10, Bone Wax 2.5gm, Forceps, Gauze, 4"x4", Silicone Washer

**CODMAN Metal Disposable ICP Kit**

**80-1190**

Complete, Adult

**80-1191**

Complete, Pediatric

**CODMAN Plastic Disposable ICP Kit**

**80-1196**

Complete, Adult

**80-1197**

Complete, Pediatric

**80-1200**

Disposable Twist Drill



# DRAINAGE/MONITORING VENTRICULOSTOMY KIT

---



- 80-1185** GHAJAR GUIDE Ventriculostomy Kit  
Sterile, used for quick access through the cranium and precision placement of a ventricular catheter for I.C.P. monitoring or C.S.F. drainage. Should be used in conjunction with the CODMAN Drainage Collection Bag and Tubing Set (82-1701).  
Components include:
- Palm grip drill with 4 spacer clips and guide base.
  - 20cm ventricular catheter with styler and plaster insert
  - Luer hub with cap, male end fits into 1.0–1.3 mm I.D. catheter.
  - Tunneling trocar, male end fits into 1.0–1.3 mm I.D. catheter.
  - Cotton applications 6" long, approx 4 per kit.
  - Fenestrated drape, STERI-drape, 15<sup>5</sup>/<sub>8</sub>" x 15<sup>5</sup>/<sub>8</sub>" with 2<sup>1</sup>/<sub>4</sub>" hole.
  - Non-fenestrated drape, 18" x 26", 2 per kit.
  - Gauze sponges, 4" x 4", 12 ply. 8 per kit.
  - #15 disposable scalpel.
  - Disposable forceps.
  - Disposable measuring type, 30cm.
  - Disposable marking pen.
  - 18G 3" spinal needle.
  - 5cc syringe with 22G x 1<sup>1</sup>/<sub>2</sub>" needle.
-

# DRAINAGE/MONITORING VENTRICULOSTOMY KIT

## CODMAN Cranial Access Kit

A disposable intercranial procedural kit which contains the most commonly used items for cranial access.

### Preparation Components:

Double edge razor (1 per)  
Betadine (PVP) swabs (3 per)  
PVP Solution 30ml package (1 per)  
Gauze sponges 4x4 12 ply (10 per)  
Medicine cup, 2 oz; 60cc (2 per)

### Cranial Access Preparation:

Ruler 6" (1 per)  
Marking pen (1 per)  
Fenestrated drape w/barrier 15x15 (1 per)  
Absorbent towel 15x21 (3 per)

### Cranial Access:

Xylocaine 1% w/EPI 30ml (1 per)  
Sodium Chloride 0.9% 10cc ampule (2 per)  
Syringe 12cc (2 per)  
Needle 18g x 1.5 (1 per)  
Spinal Needle 18g x 3.5 (1 per)  
Needle 25g x 5/8 (2 per)  
Needle Ventricular Needle 12g x 5.5 (1 per)  
Scalpel #15 (1 per)  
Scalpel #11 (1 per)  
Retractor Blunt (1 per)  
Hand Crank Drill (1 per)  
2.7mm drill bit with stop & wrench (1 per)  
5.8mm drill bit with stop & wrench (1 per)  
Bone Wax (1 per)  
Mosquito forceps, curved (2 per)  
Culture tube w/screw cap (1 per)

### Wound Closure/Dressing:

2.0 Ethicon silk suture (1 per)  
3.0 Ethicon nylon suture (1 per)  
Needle holder, serrated (1 per)  
Adson forceps (1 per)  
Adson forceps w/teeth (1 per)  
Suture scissors (1 per)  
Gauze sponges 2 x 2 4 ply fenestrated (2 per)



<b>82-6614</b>	CODMAN Cranial Access Kit (each)
<b>82-6615</b>	CODMAN Cranial Access Kit (5 per case)
<b>82-6616</b>	CODMAN Cranial Access Kit (without drugs)

# DRAINAGE/MONITORING

## MICROSENSOR/ICP MONITORING

---

**MICROSENSOR™ ICP Transducer**  
The CODMAN MICROSENSOR ICP Transducer consists of a miniature strain gauge pressure sensor mounted in a titanium case at the tip of a 100cm flexible nylon tube. The MICROSENSOR monitors intracranial pressure directly at the source - subdural, parenchymal or intraventricular. Information is relayed electronically rather than through a hydrostatic column or fiberoptics. The MICROSENSOR is available in four different kit configurations.

---



**82-6631** MICROSENSOR Basic Kit – Indicated for use in both subdural and intraparenchymal pressure monitoring applications.  
Contains the following components:

- CODMAN MICROSENSOR ICP Transducer
- 14 Gauge Touhy Needle

---



**82-6632** MICROSENSOR™ Bolt Kit - Indicated for use in both subdural and intraparenchymal pressure monitoring applications.  
Contains the following components:

- CODMAN MICROSENSOR ICP Transducer
- Adult and Pediatric Skull Bolt with Luer
- Spacing Washers
- Touhy-Borst Adapter (mounted on the catheter portion of the transducer)
- Disposable ICP Screw Handle

---



# DRAINAGE/MONITORING MICROSENSOR/ICP MONITORING

## MICROSENSOR™ Skull Bolt Kit

Indicated for use in both subdural and intraparenchymal pressure monitoring applications. Contains the following components:

- CODMAN MICROSENSOR ICP Transducer
- Winged, .7mm skull bolt with leak-proof compression cap
- Spacing washer
- Obturator/ Durapierce
- Drill Bit

**82-6638** MICROSENSOR Skull Bolt Kit (each)

**82-6639** MICROSENSOR Skull Bolt Kit (5 per case)



**82-6653** MICROSENSOR™ Ventricular Catheter Kit with ICP transducer is designed for use with the CODMAN ICP EXPRESS® monitor. In conjunction with the ICP EXPRESS unit, the sensor may be used with a wide variety of patient monitoring systems for display of Intracranial pressure ICP wave form, or for consideration of ICP data with other vital clinical monitoring information.

Contains the following components:

- 38cm clear ventricular catheter with preloaded stylet
- Integrated miniature strain gauge pressure transducer
- 7-gauge tunneling trocar for placement



# DRAINAGE/MONITORING MICROSENSOR/ICP MONITORING



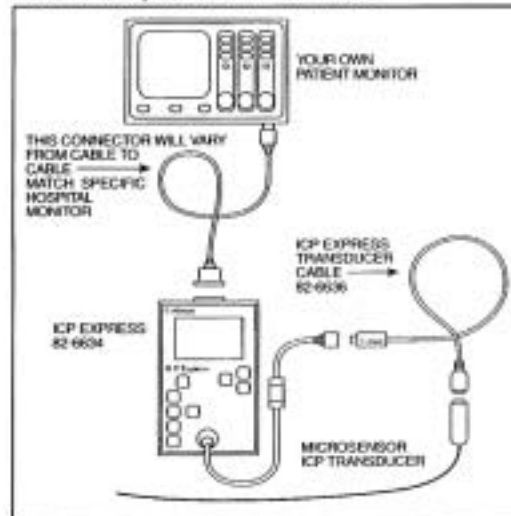
## 82-6634 ICP EXPRESS

The ICP EXPRESS is a digital intracranial pressure monitor that also serves as an interface between the Codman MICROSENSOR ICP Transducer and patient monitors. When connected to a MICROSENSOR, the ICP EXPRESS provides a continuous numeric display of the mean, systolic and diastolic intracranial pressure.

- User instructions appear directly on screen
- One touch zero function
- Compatible with most patient monitoring systems for full ICP waveform analysis and integration of ICP data with other patient information
- Digital display of systolic, diastolic and mean ICP

The ICP EXPRESS comes complete with integral pole clamp and ICP EXPRESS Cable. If additional ICP EXPRESS Cables are required, they can be ordered separately (82-6636).

## Hardware Options: ICP EXPRESS



## 82-6636 ICP EXPRESS Cable

Connecting cable between the CODMAN MICROSENSOR ICP Transducer (catalog nos. 82-6631, 82-6632, 82-6633 and 82-6638) and the CODMAN ICP EXPRESS (82-6634 and 82-6635). The cable's integral computer memory stores the zero reference value after the transducer zeroing process is complete permitting easy interchange of ICP EXPRESS units and/or patient monitors.

# DRAINAGE/MONITORING MICROSENSOR/ICP MONITORING

---

Patient Monitor Interface Cables  
Connects the Interface Control Unit (82-6605)  
or ICP EXPRESS® (82-6634 and 82-6635)  
to compatible patient monitors already at your  
hospital. Contact your representative for  
assistance in selecting appropriate cables.

<b>82-6640</b>	Hewlett-Packard Twinax 5S Interface Cable
<b>82-6641</b>	Tektronix 6P Interface Cable
<b>82-6642</b>	Siemens 10P Interface Cable
<b>82-6643</b>	Marquette 8P Interface Cable
<b>82-6644</b>	Spacelabs 5P Interface Cable
<b>82-6645</b>	Spacelabs 6P Interface Cable
<b>82-6646</b>	Hewlett-Packard 12P/R Interface Cable
<b>82-6647</b>	Marquette 11P Interface Cable
<b>82-6648</b>	Siemens 15P Interface Cable (special spring latch)
<b>82-6649</b>	Propaq 6P Interface Cable

---

Additional special order patient monitor interface cables are also available.

## **Order through Repair Department (800-343-5969)**

<b>92-6624</b>	<b>7268/AB</b>	ABBOT 7P Interface Cable
<b>92-6625</b>	<b>7268/BK-1</b>	BECKMAN P Interface Cable
<b>92-6626</b>	<b>7268/BU-2</b>	BURDICK 10S Interface Cable
<b>92-6627</b>	<b>7268/CO-1</b>	COROMETRICS 3P/3S Interface Cable
<b>92-6628</b>	<b>7268/FD-1</b>	FUKUDA-DENSHI 5P Interface Cable
<b>92-6629</b>	<b>7268GS</b>	GOULD P Interface Cable
<b>92-6630</b>	<b>7268/HE-1</b>	HELLIGE 4P Interface Cable
<b>92-6631</b>	<b>7268/HO-M</b>	HONEYWELL 9P Interface Cable
<b>92-6632</b>	<b>7268/BD</b>	LITTON DATAMEDIX/BECTON DICKINSON 9P Interface Cable
<b>92-6633</b>	<b>7268/LI-1</b>	LITTON DATAMEDIX 4P Interface Cable
<b>92-6634</b>	<b>7268/LI-2</b>	LITTON DATAMEDIX 6P Interface Cable
<b>92-6635</b>	<b>7268/GE-PDS</b>	MARQUETTE/GENERAL ELECTRIC 8P Interface Cable
<b>92-6636</b>	<b>7268/MG</b>	MENNEN 6P Interface Cable
<b>92-6637</b>	<b>7268/NK</b>	NIHON-KOHDEN 5P Interface Cable
<b>92-6638</b>	<b>7268/PC</b>	PSYSIO-CONTROL 6P Interface Cable
<b>92-6639</b>	<b>7268/AO-2</b>	PIONEER 6P Interface Cable
<b>92-6640</b>	<b>7268/SIE-1</b>	SIEMENS 5S Interface Cable
<b>92-6641</b>	<b>7268/SIE-2</b>	SIEMENS 15P Interface Cable
<b>92-6642</b>	<b>7268/CS-2</b>	COBE 6P Interface Cable
<b>92-6643</b>	<b>7268/KO</b>	KONTRON 12P Interface Cable
<b>92-6644</b>	<b>7268/CA</b>	CARE 5P Interface Cable
<b>92-6645</b>	<b>7268/RW-1</b>	RICHARD WEISS Interface Cable
<b>92-6646</b>	<b>7268/PPG-1</b>	PPG 10P Interface Cable (Honeywell RM 300)
<b>92-6647</b>	<b>7268/DATEX-1</b>	DATEX CARDIOCAP 10S Interface Cable
<b>92-6648</b>	<b>7268/ME</b>	MEDTEL 6P Interface Cable
<b>92-6649</b>	<b>7268/RO-1</b>	ROCHE 108 Interface Cable
<b>92-6650</b>	<b>7268/IVY</b>	IVY BIOMED 6P Interface Cable
<b>92-6651</b>	<b>7268/PR</b>	PROTOCOL 6P Interface Cable
<b>92-6652</b>	<b>7268/KO</b>	KONTRON SUPERMON Interface Cable
<b>92-6653</b>	<b>7268/AS-4</b>	SIMONSEN & WEEL Interface Cable
<b>92-6654</b>	<b>7268/HE-2</b>	HELLIGE VICON Interface Cable
<b>92-6655</b>	<b>7268/BR-1</b>	GOULD 12P Interface Cable

---

# HYDROCEPHALUS SHUNT SYSTEMS

## ACCU-FLO

CODMAN offers a wide variety of products for the treatment of Hydrocephalus. These products are available in a variety of systems and types. Systems include: ACCU-FLO\*, DENVER\*, HOLTER\*, UNI-SHUNT\*, and HAKIM\*. In addition to the above systems, CODMAN also offers a selection of low profile valves (CODMAN Low Profile Valve), low profile valves with a siphon control mechanism (SENTINEL Valve), neonatal valves (CODMAN Neonatal Valve) and one-piece catheters for Lumbar to Peritoneal treatment of Hydrocephalus.

\*Trademark

### ACCU-FLO\* System

The ACCU-FLO\* System provides a modular approach for either distal or proximal valve control of the release of Cerebral Spinal Fluid. Distal control by use of the ACCU-FLO\* Distal Slit Valve Catheters. Proximal control by use of the ACCU-FLO\* Pressure Valve.

The ACCU-FLO\* Shunt System includes a full line of distal catheters, pressure valves, reservoirs, ventricular catheters, and connectors.

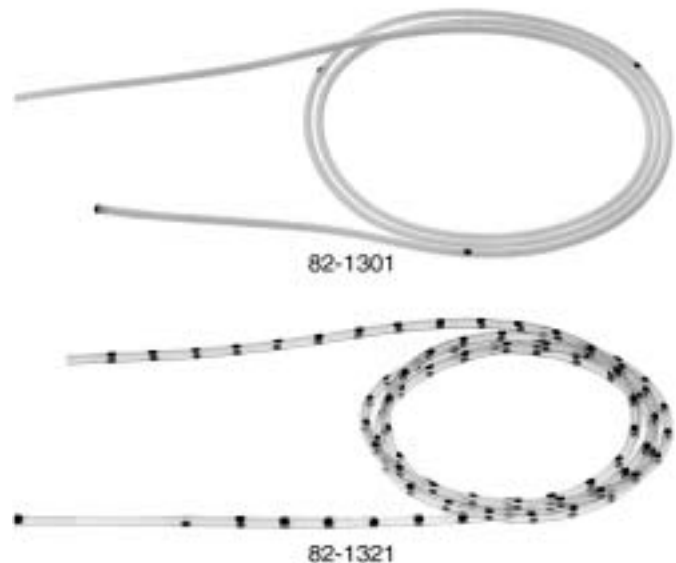
Note: All ACCU-FLO\* products are provided sterile.

### ACCU-FLO\* Catheters, Distal Slit Valve

ACCU-FLO\* Distal Catheters are made of silicone tubing, 1.3mm I.D. x 2.5mm O.D. Each catheter has a rounded X-ray detectable tantalum tip. The slit valves in CODMAN's distal valve catheters are 90° apart, and are precisely cut by specially designed machines to achieve more consistent closing pressures.

The pressure of each valve catheter is tested before it is packaged. The dots on each valve catheter indicate the pressure:

- One dot = Low Pressure  
2–5 cm H<sub>2</sub>O closing pressure
- Two dots = Medium Pressure  
5–9 cm H<sub>2</sub>O closing pressure
- Three dots = High Pressure  
9–14 cm H<sub>2</sub>O closing pressure



ACCU-FLO\* BARIUM Distal Slit Valve Catheter, sterile, X-ray detectable throughout. X-ray detectable tantalum markings are located 10cm, 20cm, and 30cm from tip.

Length 91cm

**Closing Pressure  
(Measured in cm of Water)**

- 82-1301** 2-5cm H<sub>2</sub>O Low Pressure
- 82-1302** 5-9cm H<sub>2</sub>O Medium Pressure
- 82-1303** 9-14cm H<sub>2</sub>O High Pressure

ACCU-FLO\* Catheter, clear, sterile, X-ray detectable tantalum markings are located every 1cm.

Length 91cm

**Closing Pressure  
(Measured in cm of Water)**

- 82-1321** 2-5cm H<sub>2</sub>O Low Pressure
- 82-1322** 5-9cm H<sub>2</sub>O Medium Pressure

# HYDROCEPHALUS SHUNT SYSTEMS ACCU-FLO

**82-1380** ACCU-FLO\* Barium Distal Open End Catheter, sterile.  
Made of barium impregnated silicone tubing or spring imbedded clear silicone tubing, 1.3mm I.D. x 2.5mm O.D. X-ray detectable. Each catheter has 24 drainage holes, four rows of six holes, 90° apart. X-ray detectable tantalum markings are at the distal 10cm, 20cm, and 30cm.  
Length 91cm



All ventricular catheters are packaged sterile and are made from silicone tubing, 1.3mm I.D. x 2.5mm O.D.

**82-1201** ACCU-FLO\* Barium Ventricular Catheter, sterile.  
X-ray detectable throughout. Rounded X-ray detectable tantalum tip. X-ray detectable tantalum markings, 5cm and 10cm. With 40 inlet holes, four rows of ten holes, 90° apart. Includes sterile stainless steel stylet.  
Length 15cm



**82-1212** ACCU-FLO\* Barium Flanged Ventricular Catheter, sterile.  
X-ray detectable throughout. Tapered flanged tip. X-ray detectable tantalum markings, 5cm and 10cm. With eight inlet holes, two rows of four holes, 180° apart. With nine flanges; five full and four split, to fold over inlet holes during catheter insertion. The split flanges over the midline of the holes help strain fluid and particulate. The flanges help prevent the catheter from lying flat against wall of ventricles. Includes sterile stainless steel stylet.  
Length 15cm



**82-1203** ACCU-FLO\* Clear Ventricular Catheter, sterile.  
Rounded X-ray detectable tantalum tip. X-ray detectable tantalum mark at 15cm. With 40 inlet holes, four rows of ten holes, 90° apart.  
Length 30cm

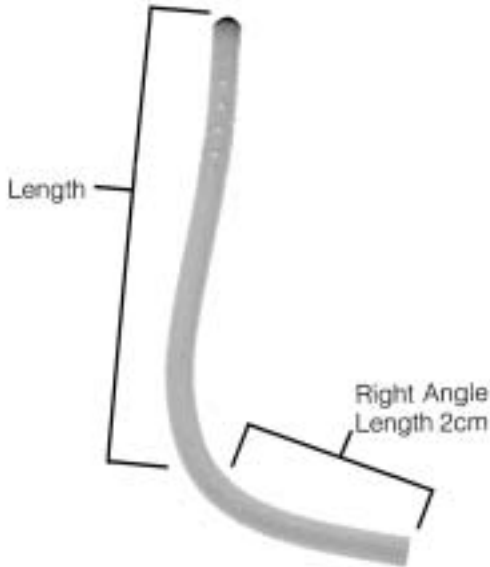


# HYDROCEPHALUS SHUNT SYSTEMS

## ACCU-FLO

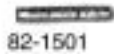


**82-1221** ACCU-FLO\* Dotted Ventricular Catheter, sterile. Rounded X-ray detectable tantalum tip. Clear silicone tubing with X-ray detectable tantalum markings every 1cm. With 40 inlet holes, four rows of ten holes, 90° apart. Includes sterile stainless steel stylet.  
Length 15cm



ACCU-FLO\* Barium Right Angle Ventricular Catheters, sterile. X-ray detectable throughout. Rounded X-ray detectable tantalum tip. With 40 holes, four rows of ten holes, 90° apart. Includes sterile stainless steel stylet.  
Length

<b>82-1231</b>	5cm
<b>82-1232</b>	7cm
<b>82-1233</b>	9cm
<b>82-1234</b>	11cm



All ACCU-FLO\* Connectors are 316-L stainless steel or plastic, 1.0mm I.D. x 1.9mm O.D. with beveled ends. Each is X-ray detectable and packaged sterile. The connectors are grooved to hold sutures for preventing catheter disconnection.

ACCU-FLO\* Right Angle Connectors, sterile.

<b>82-1507</b>	Plastic
<b>82-1511</b>	Metal

ACCU-FLO\* Straight Connectors, sterile.

Plastic	Length	17mm
Metal	Length	11mm

<b>82-1504</b>	Plastic
<b>82-1501</b>	Metal

ACCU-FLO\* Three Way Connectors, Y-shaped, sterile, with a straight metal or plastic non-spring connector in each leg.

<b>82-1520</b>	Plastic
<b>82-1521</b>	Metal

# HYDROCEPHALUS SHUNT SYSTEMS ACCU-FLO

ACCU-FLO® CSF Reservoirs are made from one-piece puncturable silicone with an embedded plastic base, with suture holes for anchoring. Each reservoir has been pretested for pressure leaks and is packaged sterile.

**Note:**

A 25 gauge, or smaller, “Huber” type needle should be used to puncture the ACCU-FLO Reservoirs.

ACCU-FLO Reservoirs are used for ventricular medication or aspiration. Each one is provided with a barium ventricular catheter (82-1201) and a straight connector (82-1501).

- 82-6100** ACCU-FLO CSF Reservoir, 14mm, sterile, fits 14mm burr hole.
- 82-6101** ACCU-FLO CSF Reservoir, 24mm, sterile, fits 24mm burr hole.



ACCU-FLO\* Reservoirs, used in line in the ACCU-FLO\* System, between the ventricular portion and distal catheter portion. Each reservoir has suture holes for anchoring purposes.

- 82-1401** ACCU-FLO\* Burr Hole Reservoir, 14mm, sterile.
- 82-1411** ACCU-FLO\* Single Dome Flat Bottom Reservoir, sterile, with reinforced backing.
- 82-1421** ACCU-FLO\* Double Dome Flat Bottom Reservoir, sterile, with reinforced backing.



82-1401



82-1411



82-1421



# HYDROCEPHALUS SHUNT SYSTEMS

## ACCU-FLO ACCESSORIES

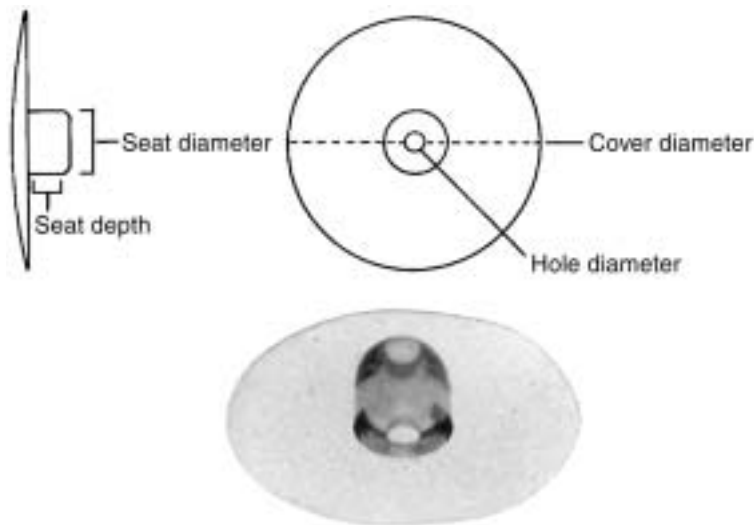
---



**82-6010** ACCU-FLO\* Burr Hole Buttons, sterile, 10 per package, individually wrapped. These buttons secure the bone flap into place, eliminating the need to wire the bone flap after a craniotomy. They allow slight flap movement in case of swelling after surgery.

Button length	35mm
Cover diameter	29mm
Stem thickness	4.1mm

---



ACCU-FLO\* Burr Hole Covers, sterile, 10 per package individually wrapped. Each burr hole cover has a low profile design to fit into a burr hole after cranial surgery. There is a center hole for insertion of a ventricular needle, if needed postoperatively.

	Hole diameter	3mm
	Cover diameter	35mm
	Silicone rubber	
<b>82-6025</b>	Seat diameter	10mm
	Seat depth	6mm
<b>82-6026</b>	Seat diameter	16mm
	Seat depth	10mm

---



# HYDROCEPHALUS SHUNT SYSTEMS HAKIM PRECISION VALVE SYSTEM

---

HAKIM™ Micro Valve System.  
Micro Valve, Precision, with unitized  
distal catheter.

The system contains one each:

- Valve and unitized distal catheter
- Ventricular catheter with stylet
- Right angle adapter
- Straight connector
- Priming adapter
- Information manual

<b>82-3035</b>	Very Low Range	10mm H <sub>2</sub> O
<b>82-3036</b>	Low Range	40mm H <sub>2</sub> O
<b>82-3037</b>	Medium Range	70mm H <sub>2</sub> O
<b>82-3038</b>	Medium High Range	100mm H <sub>2</sub> O
<b>82-3039</b>	High Range	130mm H <sub>2</sub> O

---



HAKIM™ Micro Valve with Rickham Reservoir  
and unitized distal catheter. The pre-attached  
Rickham has a plastic base. Micro Valves are  
dotted for pressure range identification. Example,  
one dot indicates a very low pressure valve and  
five dots indicates a high pressure valve.

The system contains one each:

- Valve with pre-attached Rickham Reservoir  
and unitized distal catheter
- Ventricular catheter with stylet
- Priming adapter
- Information manual

<b>82-3021</b>	Very Low Range	10mm H <sub>2</sub> O
<b>82-3022</b>	Low Range	40mm H <sub>2</sub> O
<b>82-3023</b>	Medium Range	70mm H <sub>2</sub> O
<b>82-3024</b>	Medium High Range	100mm H <sub>2</sub> O
<b>82-3025</b>	High Range	130mm H <sub>2</sub> O

---



# HYDROCEPHALUS SHUNT SYSTEMS

## HAKIM PRECISION VALVE SYSTEM

STANDARD	STANDARD WITHOUT PRECHAMBER	UNITIZED	VALVE & PRECHAMBER ONLY
<ul style="list-style-type: none"> <li>Valve Unit with Prechamber</li> <li>14cm Ventricular Catheter &amp; Stylet</li> <li>Right Angle Adapter</li> <li>Straight Connector</li> <li>85cm Peritoneal Catheter</li> <li>Valve Introducer</li> </ul>	Valve Unit without Prechamber 14cm Ventricular Catheter & Stylet Right Angle Adapter Straight Connector 85cm Peritoneal Catheter Valve Introducer	Valve Unit and Prechamber with Attached Peritoneal Catheter 14cm Ventricular Catheter & Stylet Right Angle Adapter Straight Connector Valve Introducer	Valve Unit and Prechamber Valve Introducer
82-3001 82-3002 82-3003 82-3004 82-3005	82-3016 82-3017 82-3018 82-3019 82-3020	82-3006 82-3007 82-3008 82-3009 82-3010	82-3011 82-3012 82-3013 82-3014 82-3015

### HAKIM Precision Valve System

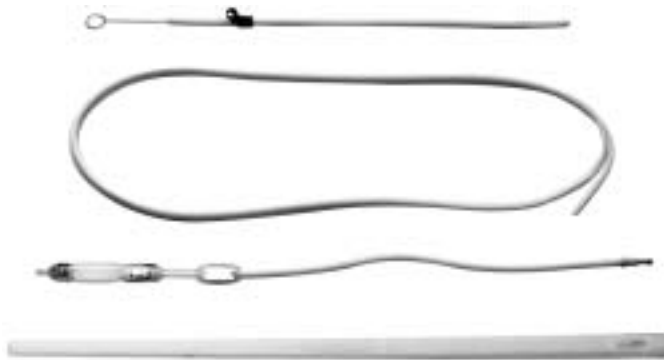
The HAKIM Precision Valve System is available in five different operating pressures, ranging from Very Low to High. Accuracy is maximized because these distinct pressures each have a narrow range, with no overlap between them. The system is available in four configurations: standard with pre-chamber, standard without pre-chamber, unitized, and valve pre-chamber only.

Accuracy and stability are achieved by using a unique undistorted spring design in concert with a perfectly matched ruby ball and valve seat. When the pressure exerted by CSF exceeds the opening pressure, the ruby ball rises from its seat allowing CSF to flow through the valve mechanism.

The low profile design is ideal for both adult and pediatric patients. The silicone tubing is radiopaque and the metal components of the valve are made from thin titanium and stainless steel which allows for minimal artifact in MRI and CT scanning. Each pressure range is coded for easy identification:

- Very Low Range 10mm H<sub>2</sub>O
- Low Range 40mm H<sub>2</sub>O
- Medium Low Range 70mm H<sub>2</sub>O
- Medium High Range 100mm H<sub>2</sub>O
- High Range 130mm H<sub>2</sub>O

(NOTE: all pressure ranges have a tolerance of ± 10 mm H<sub>2</sub>O)



### HAKIM Precision Valve Standard

<b>82-3001</b>	Very Low Range	10mm H <sub>2</sub> O
<b>82-3002</b>	Low Range	40mm H <sub>2</sub> O
<b>82-3003</b>	Medium Low Range	70mm H <sub>2</sub> O
<b>82-3004</b>	Medium High Range	100mm H <sub>2</sub> O
<b>82-3005</b>	High Range	130mm H <sub>2</sub> O

# HYDROCEPHALUS SHUNT SYSTEMS

## HAKIM PRECISION VALVE SYSTEM

	HAKIM™ Precision Valve Standard without Pre-Chamber	
<b>82-3016</b>	Very Low Range	10mm H <sub>2</sub> O
<b>82-3017</b>	Low Range	40mm H <sub>2</sub> O
<b>82-3018</b>	Medium Low Range	70mm H <sub>2</sub> O
<b>82-3019</b>	Medium High Range	100mm H <sub>2</sub> O
<b>82-3020</b>	High Range	130mm H <sub>2</sub> O



	HAKIM™ Precision Valve - Unitized	
<b>82-3006</b>	Very Low Range	10mm H <sub>2</sub> O
<b>82-3007</b>	Low Range	40mm H <sub>2</sub> O
<b>82-3008</b>	Medium Low Range	70mm H <sub>2</sub> O
<b>82-3009</b>	Medium High Range	100mm H <sub>2</sub> O
<b>82-3010</b>	High Range	130mm H <sub>2</sub> O



	HAKIM Precision Valve Valve and Pre-Chamber only (supplied with valve introducer only)	
<b>82-3011</b>	Very Low Range	10mm H <sub>2</sub> O
<b>82-3012</b>	Low Range	40mm H <sub>2</sub> O
<b>82-3013</b>	Medium Low Range	70mm H <sub>2</sub> O
<b>82-3014</b>	Medium High Range	100mm H <sub>2</sub> O
<b>82-3015</b>	High Range	130mm H <sub>2</sub> O



<b>82-3041</b>	HAKIM Ventricular Catheter, 14cm Supplied with stylet, introducer, and right angle adaptor. (1.4mm I.D. x 2.7mm O.D.)	
----------------	---	--



# HYDROCEPHALUS SHUNT SYSTEMS

## HAKIM PRECISION VALVE SYSTEM

---



---

**82-3044** HAKIM Atrial Catheter, 46cm  
(1mm I.D. x 2.2mm O.D.)

---



---

**82-3045** HAKIM Peritoneal Catheter, 85cm  
(1mm I.D. x 2.2mm O.D.)

---



---

**82-3048** HAKIM Straight Connector  
Stainless steel (1.07mm I.D. x 2.08mm O.D.)

---



---

**82-3049** HAKIM Right Angle Connector  
Stainless steel (1.02mm I.D. x 1.91mm O.D.)

---

# HYDROCEPHALUS SHUNT SYSTEMS HAKIM PRECISION VALVE SYSTEM

---

82-3052 HAKIM Right Angle Adaptor, plastic

---



82-3056 HAKIM Tube Passer, stainless steel

---



# HYDROCEPHALUS SHUNT SYSTEMS

## HAKIM PROGRAMMABLE VALVE SYSTEM

---



Valve w/Prechamber



Standard Valve



Micro Valve



Micro Valve w/Rickham Reservoir



Codman Hakim Programmer



Programmable Valve

CODMAN HAKIM Programmable Valve (CHPV)

### CHPV Standard Systems

System includes: Programmable Valve, straight ventricular catheter, stylet, right-angle adapter, straight connector, drainage catheter, valve introducer and information manual.

**82-3101**

**82-3100**

**82-3111**

CHPV System without prechamber

CHPV System with prechamber

CHPV System with prechamber and unitized distal catheter

### CHPV MicroValve Systems

System includes: Programmable Valve with unitized distal catheter, straight ventricular catheter, stylet, right-angle adapter and straight connector with model 82-3114, priming adapter and information manual.

**82-3113**

**82-3114**

CHPV MicroValve System with integral RICKHAM™ Reservoir and unitized distal catheter

CHPV MicroValve System and unitized distal catheter

### CHPV, No Catheters

System includes: Programmable Valve, straight connector(s) introducer (model 82-3110), priming adapter (model 82-3112) and information manual.

**82-3110**

**82-3112**

CHPV with prechamber, no catheters

CHPV MicroValve, no catheters

### CHPV Programmer

**82-3121**

**82-3130**

CODMAN HAKIM Programmer

CODMAN HAKIM Transmitter, (replacement part)

### Accessories:

**82-3041**

**82-3044**

**82-3045**

**82-3052**

**82-1694**

**82-1501**

**82-1504**

**82-1520**

**82-1521**

HAKIM Ventricular Catheter, 14cm

HAKIM Atrial Catheter, 46cm

HAKIM Peritoneal Catheter, 85cm

HAKIM right-angle adapter

Straight metal connector, HOLTER®

ACCU-FLO® straight metal connector

ACCU-FLO straight plastic connector

ACCU-FLO three-way plastic connector

ACCU-FLO three-way metal connector

# HYDROCEPHALUS SHUNT SYSTEMS HOLTER

---

## HOLTER\* Valve Systems

The HOLTER Valve System represents three decades of development and experience with dual valve shunting. The HOLTER system's modular design provides a proximal control of pressure. The proximal control valve is a positive displacement pump with a dual valve design. This increases the protection against runoff if biological debris should hold one valve open. It also acts as a double protection against reflux.

All HOLTER products are provided sterile for convenience except HOLTER connectors which are supplied non-sterile when ordered individually.

## HOLTER Valves

The HOLTER Valves are manufactured from silicone rubber and passivated 316-L stainless steel.

CODMAN provides three style HOLTER Valves:

- Straight
- Elliptical
- Mini-Elliptical

The valve is identified by lot number and by a letter designating one of four pressure ranges. An arrow on each valve indicates the direction of flow.

- H = High
- M = Medium
- L = Low
- EL = Extra Low

## HOLTER Valve Construction

### Three Basic Components

1. One inlet valve assembly.
  2. Connector tubing.
  3. One outlet valve assembly.
- Inlets and outlets each contain adapters for fixation of catheters.
  - Cylindrical valve body contains and protects condom-shaped slit valve.
  - Helically wound internal wire prevents inversion of slits, thus preventing reflux.

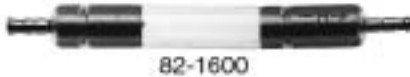
### Assembly

- Extremely close tolerance of all mating parts.
  - No reflux.
  - Straight-through alignment of all components.
  - Completed assembly functions as a positive displacement unidirectional pump.
-

# HYDROCEPHALUS SHUNT SYSTEMS

## HOLTER

---



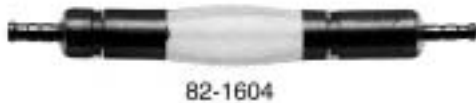
HOLTER STRAIGHT Valves, sterile. A straight low profile standard sized valve.

Typical Pressure Range\*\*

<b>82-1600</b>	76–110mm H <sub>2</sub> O High Pressure
<b>82-1601</b>	41–75mm H <sub>2</sub> O Medium Pressure
<b>82-1602</b>	11–40mm H <sub>2</sub> O Low Pressure
<b>82-1603</b>	0–10mm H <sub>2</sub> O Extra Low Pressure

\*\*These are typical specifications to which the mean pressure of the valve population, when tested at a flow rate of 8.6 cc/hr., must conform. The purpose of the testing is to assure uniform quality of product which, through historical use and clinical investigation, has been shown to be effective in the relief of hydrocephalus.

---



HOLTER\* ELLIPTICAL Valves, standard, sterile. The elliptical style connector tube provides additional pumping volume and increased sensitivity for patency checks.

Typical Pressure Range\*\*

<b>82-1604</b>	76–10mm H <sub>2</sub> O High Pressure
<b>82-1605</b>	41–75mm H <sub>2</sub> O Medium Pressure
<b>82-1606</b>	11–40mm H <sub>2</sub> O Low Pressure
<b>82-1607</b>	0–10mm H <sub>2</sub> O Extra Low Pressure



HOLTER\* MINI ELLIPTICAL Valves, sterile. A 20% smaller valve than the standard elliptical valve with the same performance characteristics. For pediatric use, or where excessive skin tension must be avoided.

Typical Pressure Range\*\*

<b>82-1608</b>	76–110mm H <sub>2</sub> O High Pressure
<b>82-1609</b>	41–75mm H <sub>2</sub> O Medium Pressure
<b>82-1610</b>	11–40mm H <sub>2</sub> O Low Pressure
<b>82-1611</b>	0–10mm H <sub>2</sub> O Extra Low Pressure

\*\*These are typical specifications to which the mean pressure of the valve population, when tested at a flow rate of 8.6 cc/hr., must conform. The purpose of the testing is to assure uniform quality of product which, through historical use and clinical investigation, has been shown to be effective in the relief of hydrocephalus.

---



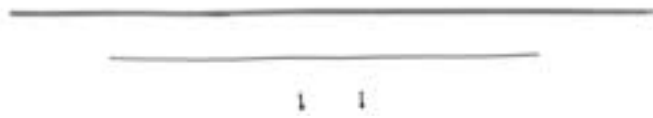
# HYDROCEPHALUS SHUNT SYSTEMS HOLTER

HOLTER\* Distal Atrial Catheters, sterile, barium impregnated with two lumen configurations to meet various shunting needs. Large lumen styles have an I.D. of 1.2mm and an O.D. of 2.5mm. The small, or stepped down portion lumen have an I.D. of .8mm and an O.D. of 1.3mm.

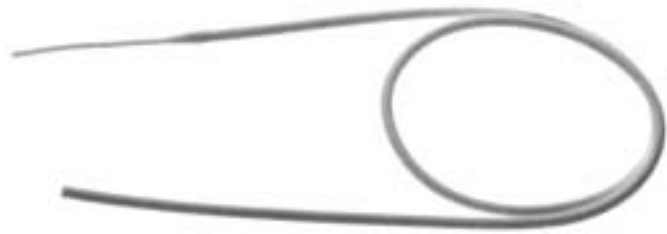
**82-1670** HOLTER\* Distal Atrial Catheter, Type A, barium, sterile. Large lumen Catheter.  
Total length 45cm  
Supplied with two sterile 82-1694 HOLTER\* Type A connectors.



**82-1672** HOLTER\* Distal Atrial Catheter, Type B. barium two piece, sterile  
Small Catheter Length 15cm  
Large Catheter Length 23cm  
Total length 38cm  
Supplied with two sterile 82-1695 HOLTER\* Type B connectors.



**82-1674** HOLTER Distal Atrial Catheter, Type C Barium, sterile.  
Small Catheter Length 3cm  
Large Catheter Length 39cm  
Total length 42cm  
Supplied with one sterile HOLTER Type C connector imbedded in the large catheter 7 cm from the junction of the small and large catheter portion allowing for suture ties, without restricting flow.



# HYDROCEPHALUS SHUNT SYSTEMS

## HOLTER

---



**82-1676** HOLTER\* Distal Atrial Catheter, Type E, barium, sterile.

Small Catheter Length	24cm
Large Catheter Length	24cm
Total length	48cm

Supplied with one sterile 82-1694 HOLTER\* Type A Connector.

---

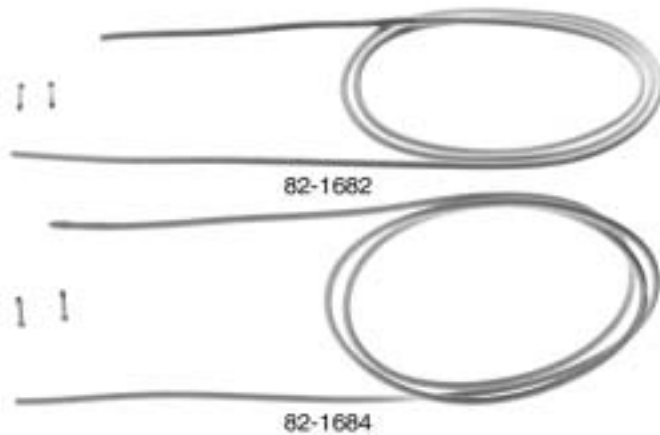


**82-1678** HOLTER\* Distal Atrial Catheter, type H, barium, sterile.

Small Catheter Length	39cm
Large Catheter Length	3cm
Total length	41cm

The HOLTER\* Type H Distal Catheter is supplied with no connectors.

---



HOLTER\* Distal Peritoneal Catheters, barium, sterile.

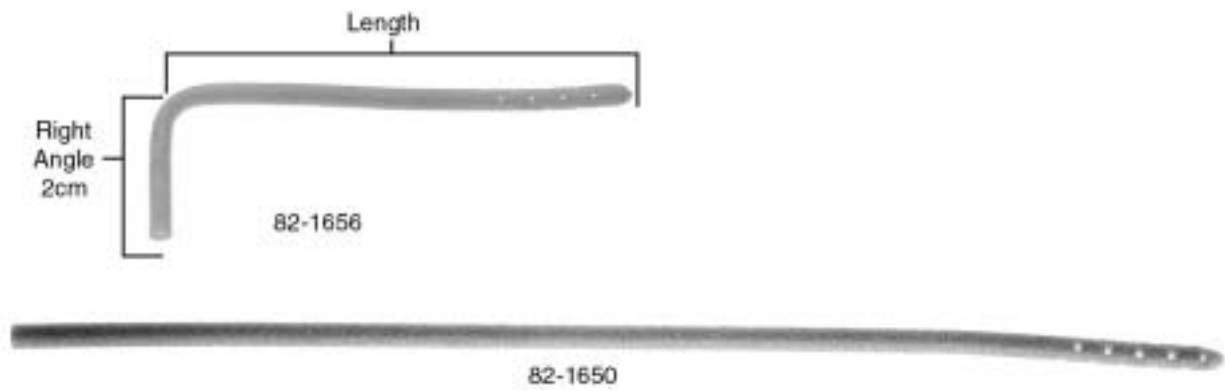
Barium impregnated with an I.D. of 1.2mm and an O.D. of 2.5mm. Supplied with two sterile 82-1694 HOLTER\* Type A connectors.

Length	90cm
--------	------

**82-1682** Open end  
**82-1684** SALMON style, closed distal tip with four side slits 90° apart. The tip is solid silicone and is more heavily opacified for positive X-ray identification.

---

# HYDROCEPHALUS SHUNT SYSTEMS HOLTER



CODMAN's HOLTER\* System provides both straight and right angle ventricular catheters. The right angle catheters are designed for use when a reservoir is not required. All ventricular catheters have a 3.1mm O.D. and a 1.5mm I.D.. All ventricular tips have multiple perforations. HOLTER\* Ventricular Catheters are barium impregnated X-ray detectable and are supplied sterile with a stainless steel sterile stylet to assist in implantation.

HOLTER\* Ventricular Catheter, barium, right angle, sterile.

Length

<b>82-1652</b>	3cm
<b>82-1654</b>	4cm
<b>82-1656</b>	5cm
<b>82-1658</b>	6cm
<b>82-1660</b>	7cm
<b>82-1662</b>	8cm
<b>82-1664</b>	9cm
<b>82-1666</b>	10cm
<b>82-1650</b>	HOLTER* Ventricular Catheter, barium, straight, sterile.
	Length                      15cm

# HYDROCEPHALUS SHUNT SYSTEMS

## HOLTER

---



HOLTER\* Ventricular Catheter - Reservoirs (also referred to as Cerebral Catheter Reservoirs)

The Ventricular Catheter-Reservoir is an all silicone rubber reservoir and right-angle catheter molded together as one unit, X-ray detectable. The dome-shaped reservoir has a base made of reinforced sheeting, coated with silicone rubber. The reservoir has a height of 6.0mm, and the base, which extends beyond the diameter of the reservoir to accommodate sutures, has a diameter of 15.7mm.

The catheter segment and distal end of the Catheter-Reservoir has a 1.5mm inside diameter and a 3.1mm outside diameter. The distal end of the Catheter-Reservoir is designed to accommodate the inlet adapter of a HOLTER\* Valve when the reservoir is used in a shunt system.

Included with the HOLTER\* Ventricular Catheter Reservoir are:

A stainless steel stylet, for the insertion of the ventricular portion of the catheter.

A stainless steel plug, inserted in the distal end of the reservoir. Note: The plug should be removed when the HOLTER\* Ventricular Catheter-Reservoir is being used in a shunt system.

HOLTER\* Ventricular Catheter-Reservoir, barium, right angle, sterile.

Length

<b>82-1630</b>	3cm
<b>82-1632</b>	4cm
<b>82-1634</b>	5cm
<b>82-1636</b>	6cm
<b>82-1638</b>	7cm
<b>82-1640</b>	8cm
<b>82-1642</b>	9cm
<b>82-1644</b>	10cm

---

# HYDROCEPHALUS SHUNT SYSTEMS HOLTER

- 82-1694** HOLTER\* Type A Connector, stainless steel, five per pack, non-sterile.  
Length 10.4mm  
Sterile Type A connectors are supplied with the following HOLTER\* products:  
two each with 82-1670 Type A Atrial Catheter  
one each with 82-1676 Type E Atrial Catheter  
two each with 82-1697 Stunt Filter  
two each with 82-1682 Type A Peritoneal Catheter  
two each with 82-1684 SALMON Peritoneal Catheter
- 82-1695** HOLTER\* Type B Connector, stainless steel, five per pack, non-sterile.  
Length 8mm  
Sterile Type B connectors are supplied with the following HOLTER\* products:  
two each with 82-1672 Type B Atrial Catheter



- 82-1696** HOLTER\* Type T Connector, one per pack, non-sterile.  
For bilateral drainage with one valve or for multiple connectors using ventricular catheters.

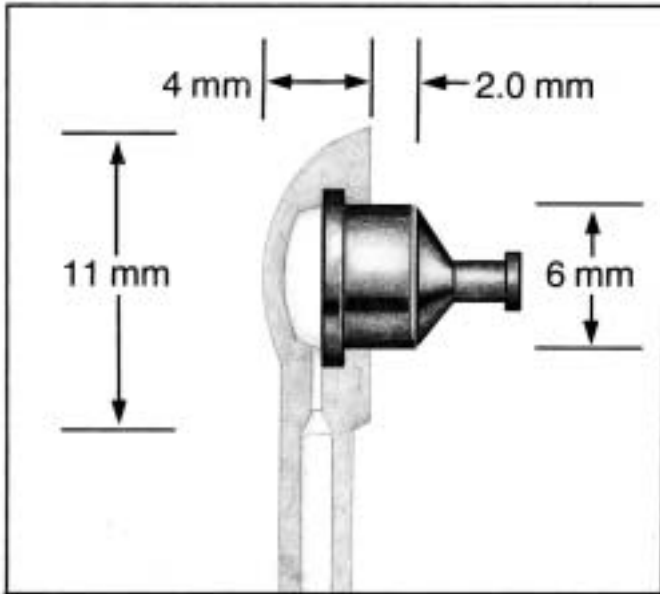


- 82-1697** HOLTER\* In-Line Shunt Filter, sterile. A 3.9 micron cellulosic filter designed specifically for use with the HOLTER\* Shunt System to prevent the transfer of cells larger than 3.9 microns through the system. The filter has a surface area of 68 square millimeters supported in a stainless steel mesh and totally encased in silicone. The silicone casing contains an inlet and outlet port, both with an I.D. of 1.5mm, for connection to the shunt system. The filter can be implanted just behind the mastoid air cells so it is exposed to the radiotherapy field, if radiotherapy is used.  
The HOLTER\* In-Line Shunt Filter is packaged sterile. Each package contains one filter and two sterile 82-1694 HOLTER\* Type A connectors.



# HYDROCEPHALUS SHUNT SYSTEMS

## HOLTER



### HOLTER\* Ventriculostomy Reservoirs

The HOLTER\* Reservoirs are used for both ventriculostomies and for connection to the HOLTER\* Valves. Reservoirs; stainless steel or plastic base; removable, puncturable silicone rubber cap for convenience.

Each is supplied with:  
 (82-1650) Ventricular Catheter, 15cm straight,  
 Ventricular Catheter stylet, sterile.

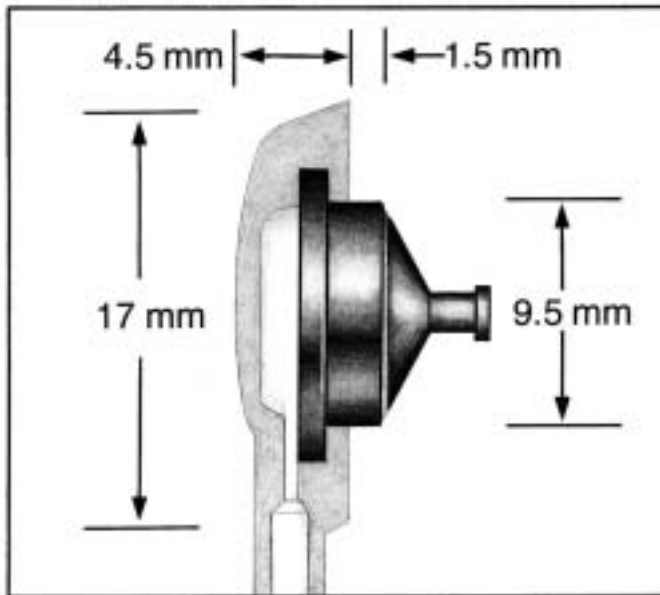


### HOLTER\* RICKHAM Ventriculostomy Reservoirs, standard, sterile.

- 82-1621** Stainless-steel base
- 82-1615** Plastic base

Requires a 6mm burr hole or skull recess.  
 Supplied with one (82-1650) Ventricular Catheter, 15cm straight, and stylet, both sterile.

\*Note: A 25 gauge "Huber" type needle or smaller should be used to puncture HOLTER reservoirs.



### HOLTER\* RICKHAM Ventriculostomy Reservoir, large, sterile.

- 82-1623** stainless-steel base
- 82-1616** plastic base

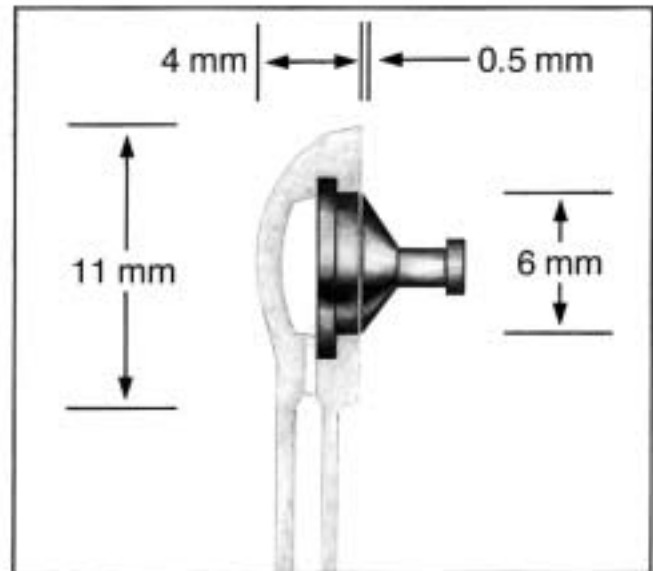
Intended for older children and adults.  
 Requires a 9.5mm burr hole or drilled-skull recess.  
 Supplied with one (82-1650) Ventricular Catheter, 15cm straight, and stylet, both sterile.

# HYDROCEPHALUS SHUNT SYSTEMS HOLTER



**82-1625**  
**82-1617**

HOLTER\* SALMON-RICKHAM  
Ventriculostomy Reservoir, low profile, sterile.  
Stainless Steel Base  
Plastic Base  
Designed for pediatric use. Ideal for seating in very thin to medium thickness cranium.  
Requires a 6mm burr hole or drilled-skull recess.  
Supplied with one (82-1650) Ventricular Catheter, 15cm straight, and stylet, both sterile.



\*Note: A 25 gauge "Huber" type needle or smaller should be used to puncture HOLTER reservoirs.

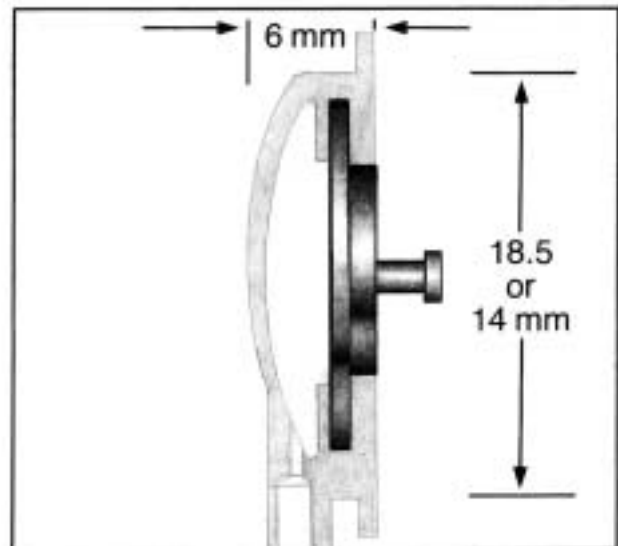
**82-1618**

HOLTER\* SELKER Ventriculostomy Reservoir, small, sterile.  
Plastic base  
Requires only a 4mm drilled hole to accommodate the ventricular catheter. This style reservoir provides a larger target area (14mm cap diameter) for puncturing and a low profile recommended for pediatric use.  
Supplied with one (82-1650) Ventricular Catheter, 15cm straight, and stylet, both sterile.



**82-1619**

HOLTER\* SELKER Ventriculostomy Reservoir, large, sterile.  
Plastic base  
Requires only a 4mm drilled hole to accommodate the ventricular catheter. This style reservoir provides a larger target area (18.5mm cap diameter) for puncturing and a low profile recommended for pediatric use.  
Supplied with one (82-1650) Ventricular Catheter, 15cm straight, and stylet, both sterile.



\*Note: A 25 gauge "Huber" type needle or smaller should be used to puncture HOLTER reservoirs.

INTRACRANIAL  
PRESSURE

# HYDROCEPHALUS SHUNT SYSTEMS

## HOLTER

---



LUMBAR-PERITONEAL Catheters are designed for shunting from the subarachnoid space to the peritoneal cavity. This method provides a simple means of treating communicating hydrocephalus, and is an effective alternative to standard V.A. or V.P. shunts in the treatment of pseudotumor cerebri, cranial and spinal CSF fistula (non-infected), and recurrent bulging craniotomy sites.

HOLTER\* LUMBOPERITONEAL Catheters Manufactured as a one-piece silicone rubber with an I.D. of 1.2mm and an O.D. of 2.5mm. The 3cm T-portion has four sets of three proximal holes, and has 1.0mm I.D. and 1.8mm O.D. The peritoneal catheter end has three longitudinal slits (120° apart) to regulate flow and prevent reflux.

- |                |  |
|----------------|--|
| <b>82-1698</b> | HOLTER* LUMBOPERITONEAL Catheter, T-shaped, one-piece, sterile, with 3.5mm slit valves.<br>Length 65cm |
| <b>82-1699</b> | HOLTER* LUMBOPERITONEAL Catheter, T-shaped, one-piece, sterile, with 4.0mm slit valves.<br>Length 65cm |
- 

# HYDROCEPHALUS SHUNT SYSTEMS

## HOLTER ACCESSORIES

---



- |                |   |
|----------------|---|
| <b>82-1692</b> | HOLTER* Distal Catheter Passer, SALMON style, stainless steel, non-sterile.<br>Used for subcutaneous passage and placement of an atrial or peritoneal catheter. The catheter is passed through the tubular body of the instrument.<br>Tube I.D. 3.2mm<br>Tube O.D. 4.2mm<br>Total length 35.5cm |
|----------------|---|
-



# HYDROCEPHALUS SHUNT SYSTEMS HOLTER ACCESSORIES

---

<b>82-1693</b>	HOLTER* Distal Catheter Placement Instrument, stainless steel, non-sterile. For the subcutaneous passage and placement of the Distal Peritoneal Catheter.
Rod O.D.	3.2mm
Tip	7mm
Hole Diameter	2.75mm
Total length	56cm

---



# HYDROCEPHALUS SHUNT SYSTEMS UNI-SHUNT

---

## UNI-SHUNT\* Systems

The UNI-SHUNT System provides a one-piece, or unitized shunting approach. The distal end is a standard slit valve providing a precise pressure control. The UNI-SHUNT catheter is one continuous length of clean, x-ray detectable silicone tubing (1.3mm i.d. x 2.5mm o.d). The UNISHUNT catheter incorporates an integral reservoir made of self-sealing silicone which can be punctured with a 25 gauge or smaller Huber type needle. The simple one-piece design has no connectors, so the possibility of disconnection and subsequent complication is eliminated. The UNISHUNT system is available in a wide variety of styles, kit configurations, sizes and closing pressures.

Each UNI-SHUNT Catheter or Reservoir is clearly marked with tantalum pressure designation markers.

- One Dot = Low Pressure
  - Two Dots = Medium Pressure
  - Three Dots = High Pressure
-

# HYDROCEPHALUS SHUNT SYSTEMS

## UNI-SHUNT



The UNI-SHUNT\* with Reservoir incorporates a double dome access port to facilitate injections and aspirations of CSF samples. It is a continuous length of barium impregnated silicone tubing with an access reservoir made of self sealing silicone which can be punctured with a 25 gauge or smaller Huber type needle.

The simplicity of one piece design means that there are no connectors, so the possibility of disconnection and subsequent complications is eliminated.

The catheter has rounded X-ray detectable tantalum ventricular and distal tips, X-ray detectable pressure markings at the distal tip, and X-ray detectable markings on the ventricular and peritoneal ends.

The UNI-SHUNT\* catheter with Reservoir Kit is supplied **sterile** with the following:

Blunt Tip Needle, 17 gauge, disposable, for flushing and testing purposes.

Disposable Malleable Catheter Passer, short. Each 90cm and 102cm length kits also include one disposable Malleable Catheter Passer, long.

UNI-SHUNT\* with Reservoir Anchoring Clips, two.

UNI-SHUNT\* with Reservoir Introducer.

Marking Pen, sterile.

Measuring Tape, non-sterile.

**Note**

The 53cm and 62 cm length Reservoir Catheters have a distance of 11 cms from the ventricular tip to the reservoir, the 78cm, 90cm, and 102cm length Reservoir Catheters have a distance of 13 cms from the ventricular tip to the reservoir.

### UNI-SHUNT\* with Reservoir Kit

	<b>Length</b>	<b>Closing Pressure (Measure in cm of Water)</b>
<b>82-8501</b>	53 cm	82-85012-5 cm H <sub>2</sub> O Low
<b>82-8502</b>	53 cm	5-9 cm H <sub>2</sub> O Medium
<b>82-8511</b>	62 cm	2-5 cm H <sub>2</sub> O Low
<b>82-8512</b>	62 cm	5-9 cm H <sub>2</sub> O Medium
<b>82-8521</b>	78 cm	2-5 cm H <sub>2</sub> O Low
<b>82-8522</b>	78 cm	5-9 cm H <sub>2</sub> O Medium
<b>82-8531</b>	90 cm	2-5 cm H <sub>2</sub> O Low
<b>82-8532</b>	90 cm	5-9 cm H <sub>2</sub> O Medium
<b>82-8533</b>	90 cm	9-14 cm H <sub>2</sub> O High
<b>82-8541</b>	102 cm	2-5 cm H <sub>2</sub> O Low
<b>82-8542</b>	102 cm	5-9 cm H <sub>2</sub> O Medium
<b>82-8543</b>	102 cm	9-14 cm H <sub>2</sub> O High

# HYDROCEPHALUS SHUNT SYSTEMS ADDITIONAL COMPONENTS-CLIPS

**82-4092** Right angle Cranial Clip with Tabs, sterile, two clips per package. A one piece right angle clip, used to anchor the ventricular and distal ends of the Uni-Shunt with Elliptical Reservoir Catheter in position. Each Uni-Shunt with Elliptical Reservoir is supplied with one package of 82-4092 anchoring clips.



**82-8591** UNI-SHUNT\* with Reservoir Anchoring Clip, sterile, two clips per package. A one piece right angle clip, used to anchor the ventricular and distal ends of the UNI-SHUNT\* with Reservoir Catheter in position. Each UNI-SHUNT\* with Reservoir Catheter Kit is supplied with one 82-8591 Anchoring Clips.



# HYDROCEPHALUS SHUNT SYSTEMS ADDITIONAL COMPONENTS-INTRODUCER

**82-8594** UNI-SHUNT\* with Reservoir Introducer, sterile, disposable. Used to place the proximal end of the UNI-SHUNT\* with Reservoir Catheter into the ventricles. Each UNI-SHUNT\* with Reservoir Catheter Kit is supplied with one 82-8594 Introducer.



# HYDROCEPHALUS SHUNT SYSTEMS ADDITIONAL COMPONENTS-PASSERS

**16-1057** CODMAN Disposable ICP Luer Lock Connector, sterile, consists of a female luer lock connector and a male luer lock cap. Designed to connect a silicone ventricular catheter (I.D. from 1.3mm to 1.5mm) to a CSF drainage or monitoring device. May be used to occlude ventricular catheter by utilizing male luer lock cap.



# HYDROCEPHALUS SHUNT SYSTEMS

## ADDITIONAL COMPONENTS-PASSERS

---



**82-4095** Split Trocar, sterile, disposable. For the placement of the UNI-SHUNT\* Catheter in both the ventricle and peritoneum. The unique open/close obturator prevents excessive loss of CSF in the ventricle.

Length 10cm

Each UNI-SHUNT\* Catheter Kit includes one 82-4095 disposable Split Trocar.

---



MALLEABLE Catheter Passers, used to pass the distal catheter to the peritoneum. Each 90cm and 102cm UNI-SHUNT\* Catheter Kit is also supplied with one Long Catheter Passer.

**82-1515** MALLEABLE Catheter Passer, short, sterile, disposable. Packaged individually, six per case.  
Length 36cm

**82-1516** MALLEABLE Catheter Passer, long, sterile, disposable. Packaged individually, six per case.  
Length 55cm

---



**82-1692** HOLTER\* Distal Catheter Passer, SALMON style, stainless steel, non-sterile. Used for subcutaneous passage and placement of an atrial or peritoneal catheter. The catheter is passed through the tubular body of the instrument.

Tube I.D. 3.2mm  
Tube O.D. 4.2mm  
Total length 35.5cm

---



**82-1693** HOLTER\* Distal Catheter Placement Instrument, stainless steel, non-sterile. For the subcutaneous passage and placement of the Distal Peritoneal Catheter.

Rod O.D. 3.2mm  
Tip 7mm  
Hole Diameter 2.75mm  
Total length 56cm

---

# HYDROCEPHALUS SHUNT SYSTEMS

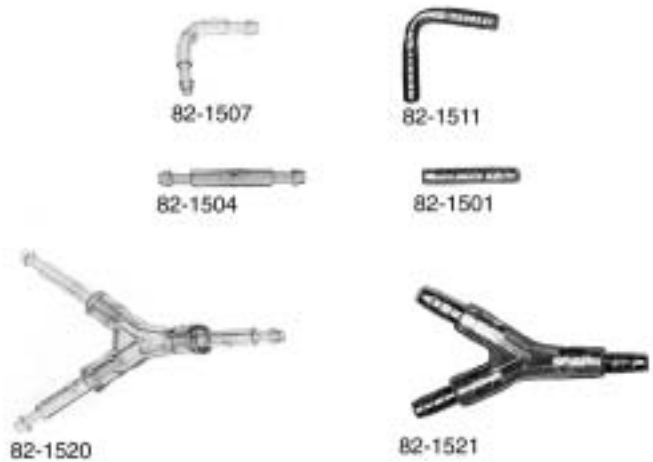
## ADDITIONAL COMPONENTS

- 82-1715** HOFFMAN Shunt Passer, short, stainless steel, non-sterile.  
Used for the subcutaneous passage and placement of the distal peritoneal catheter. After subcutaneous tunneling, the malleable passer is connected to a suction source to provide quick positioning of the distal catheter.  
Tube I.D. 3.2mm  
Tube O.D. 4.2mm  
Total length 45.7cm
- 82-1716** HOFFMAN Shunt Passer, long, stainless steel, non-sterile.  
Tube I.D. 3.2mm  
Tube O.D. 4.2mm  
Total length 61.0cm



All ACCU-FLO\* Connectors are 316-L stainless steel or plastic, 1.0mm I.D. x 1.9mm O.D. with beveled ends. Each is X-ray detectable and packaged sterile. The connectors are grooved to hold sutures for preventing catheter disconnection.

- ACCU-FLO\* Right Angle Connectors, sterile.
- 82-1507** Plastic
- 82-1511** Metal
- ACCU-FLO\* Straight Connectors, sterile.
- |         |        |      |
|---------|--------|------|
| Plastic | Length | 17mm |
| Metal   | Length | 11mm |
- 82-1504** Plastic
- 82-1501** Metal
- ACCU-FLO\* Three Way Connectors, Y-shaped, sterile, with a straight metal or plastic non-spring connector in each leg.
- 82-1520** Plastic
- 82-1521** Metal



# INTERCRANIAL PRESSURE ADDITIONAL COMPONENTS-LUMBAR

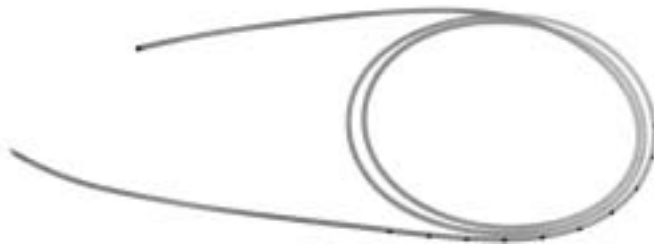
---



LUMBAR-PERITONEAL Catheters are designed for shunting from the subarachnoid space to the peritoneal cavity. This method provides a simple means of treating communicating hydrocephalus, and is an effective alternative to standard V.A. or V.P. shunts in the treatment of pseudotumor cerebri, cranial and spinal CSF fistula (non-infected), and recurrent bulging craniotomy sites.

HOLTER\* LUMBOPERITONEAL Catheters Manufactured as a one-piece silicone rubber with an I.D. of 1.2mm and an O.D. of 2.5mm. The 3cm T-portion has four sets of three proximal holes, and has 1.0mm I.D. and 1.8mm O.D. The peritoneal catheter end has three longitudinal slits (120° apart) to regulate flow and prevent reflux.

- 82-1698** HOLTER\* LUMBOPERITONEAL Catheter, T-shaped, one-piece, sterile, with 3.5mm slit valves.  
Length 65cm
- 82-1699** HOLTER\* LUMBOPERITONEAL Catheter, T-shaped, one-piece, sterile, with 4.0mm slit valves.  
Length 65cm
- 



LUMBAR-PERITONEAL CATHETERS, JAMES design, one-piece, sterile. Pressure is controlled through distal slit valves (5–9cm H<sub>2</sub>O Medium Pressure), four slits 90° apart. The proximal tip is perforated, open ended and angled cut for easy insertion.

- I.D. .76mm  
O.D. 1.65 mm  
Length
- 82-6200** 25cm  
**82-6201** 50cm  
**82-6202** 80cm
- Use the 45-1020 TOUHY Needle for the insertion of the JAMES LUMBAR-PERITONEAL Shunt into the spinal subarachnoid space.
- 



- 45-1020** TOUHY Needle, 14 Gauge, non-sterile, used for the insertion of the JAMES LUMBAR-PERITONEAL Catheter.  
Length 3½" (90mm)  
Needle length given is exclusive of hub and stylet.
-

# INTRACRANIAL PRESSURE ADDITIONAL COMPONENTS-CANNULA

ELSBERG Ventricular Cannulas, silver, graduated in centimeters, closed end, three side holes.

<b>16-1015</b>	Diameter 5 Fr.	Length 4"	(102mm)
<b>16-1016</b>	Diameter 7 Fr.	Length 4"	(102mm)
<b>16-1017</b>	Diameter 9 Fr.	Length 4"	(102mm)



DORSEY Ventricular Cannulas, graduated in centimeters, open ended.

<b>16-1020</b>	Plain		
	Diameter 11 Fr.		
	Length 3 3/4"		(95mm)



FORD HOSPITAL Ventricular Cannula, closed end with two side holes.

<b>16-1023</b>	Diameter 4.5 Fr.		
	Length 3 1/4"		(83mm)



SELETZ Flexible Ventricular Silicone Cannula, with stopcock and removable stylet, two hole.

<b>16-1024</b>	Diameter 10 Fr.	Length 3 1/2"	(89mm)
----------------	-----------------	---------------	--------

- 5 Fr.
- 7 Fr.
- 8 Fr.
- 9 Fr.
- 10 Fr.
- 11 Fr.



SCOTT Silicone Ventricular Cannulas, two hole.

<b>16-1050</b>	Diameter 8 Fr.	Length 2 3/8"	(60mm)
<b>16-1051</b>	Diameter 8 Fr.	Length 3 1/8"	(80mm)
<b>16-1052</b>	Diameter 8 Fr.	Length 3 7/8"	(100mm)



INTRACRANIAL PRESSURE

# INTERCRANIAL PRESSURE ADDITIONAL COMPONENTS-CANNULA

---



SCOTT Ventricular Cannulas, 8 Fr., disposable, sterile, five per box. One cap and one stylet provided in each package.

<b>16-1054</b>	Length	2 $\frac{3}{8}$ "	(60mm)
<b>16-1055</b>	Length	3 $\frac{1}{8}$ "	(80mm)
<b>16-1056</b>	Length	3 $\frac{7}{8}$ "	(100mm)

---

# INTERCRANIAL PRESSURE ADDITIONAL COMPONENTS-NEEDLES

---



CONE Ventricular Needles, 2 hole, Luer lock hub.

	Length	3 $\frac{1}{2}$ "	(89mm)
<b>45-1010</b>	12G.		
<b>45-1011</b>	13G.		
<b>45-1012</b>	14G.		
<b>45-1013</b>	15G.		
<b>45-1014</b>	16G.		
<b>45-1015</b>	17G.		
<b>45-1016</b>	18G.		
<b>45-1017</b>	20G.		

---



CONE Biopsy Needles, sharp open end with blunt obturator, Luer lock hub.

	Length	3 $\frac{1}{2}$ "	(89mm)
<b>45-1022</b>	13G.		
<b>45-1024</b>	15G.		

---



**45-1050** SCOVILLE Ventricular Needle, graduated in centimeters, two hole, 14G.

	Length	3 $\frac{3}{8}$ "	(85mm)
--	--------	-------------------	--------

---



# INTRACRANIAL PRESSURE ADDITIONAL COMPONENTS-NEEDLES



**45-1052** DANDY Ventricular Needle, graduated in centimeters, 1 hole, 11G.  
Length 3<sup>5</sup>/<sub>8</sub>" (92mm)

**45-1055** POPPEN Ventricular Needle, two hole, Luer lock hub, 12G.  
Length 3<sup>5</sup>/<sub>8</sub>" (86mm)



**45-1060** MIXTER Ventricular Needles, two hole, silver, 14G.  
**45-1061** 15G.  
**45-1062** 16G.  
**45-1063** 18G.  
Length 3<sup>5</sup>/<sub>8</sub>" (92mm)



**45-1065** CAMPBELL Ventricular Needle, graduated in centimeters, 3 hole, Luer lock hub, 12G.  
Length 4" (102mm)



**45-1068** PACE Ventricular Needle, graduated in centimeters, one hole, Luer lock hub, 12G.  
Length 3<sup>5</sup>/<sub>8</sub>" (92mm)



**45-1085** D'ERRICO Ventricular Needle, graduated in centimeters, one hole, Luer lock hub, 12G.  
Length 3<sup>3</sup>/<sub>4</sub>" (95mm)



# INTERCRANIAL PRESSURE ADDITIONAL COMPONENTS-NEEDLES

---



---

**45-1092** FRAZIER Ventricular Needle, graduated in centimeters, three hole, 10G.  
Length 3<sup>7</sup>/<sub>8</sub>" (98mm)

---

# INTERCRANIAL PRESSURE ADDITIONAL COMPONENTS-U-CHANNEL

---



---

**82-6001** U-CHANNEL Stripping, sterile. A preformed U-shaped silicone rubber used in the treatment of cranial stenosis. Packaged two strippings per box.  
Thickness .5mm  
Width 10mm  
Length 150mm

---

## PROXIMAL VALVE SYSTEMS

### VENTRICULAR CATHETERS

HOLTER™ VENTRICULAR CATHETER

**82-1660** 15cm, Straight Barium

HOLTER VENTRICULAR CATHETER, Right Angle Barium

**82-1652** 3cm      **82-1660** 7cm

**82-1654** 4cm      **82-1662** 8cm

**82-1656** 5cm      **82-1664** 9cm

**82-1658** 6cm      **82-1665** 10cm

ACCU-FLO™ VENTRICULAR CATHETER

**82-1201** 15cm, Barium

**82-1212** 15cm, Barium Flanged

**82-1203** 30cm, Clear

**82-1221** 15cm, Dotted

ACCU-FLO VENTRICULAR CATHETER, Right Angle Barium

**82-1231** 5cm

**82-1232** 7cm

**82-1233** 9cm

**82-1234** 11cm

ACCU-FLO VENTRICULAR CATHETER

**82-2930** 15cm, Straight Barium

### PROXIMAL VALVES

HOLTER STRAIGHT VALVE

**82-1600** High Pressure

**82-1601** Medium Pressure

**83-1602** Low Pressure

**82-1603** Extra-Low Pressure

HOLTER ELLIPTICAL VALVE

**82-1604** High Pressure

**82-1605** Medium Pressure

**83-1606** Low Pressure

**82-1607** Extra-Low Pressure

HOLTER MINI-ELLIPTICAL VALVE

**82-1608** High Pressure

**82-1609** Medium Pressure

**83-1610** Low Pressure

**82-1611** Extra-Low Pressure

### FLUSHING RESERVOIRS

HOLTER RICKHAM VENTRICULOSTOMY RESERVOIR (includes Ventricular Catheter, 15cm)

**82-1621** Standard, Stainless Steel Base

**82-1615** Standard, Plastic Base

**83-1623** Large, Stainless Steel Base

**82-1616** Large, Plastic Base

HOLTER SELKER VENTRICULOSTOMY RESERVOIR (includes Ventricular Catheter, 15cm)

**82-1618** Small, Plastic Base

**82-1619** Large, Plastic Base

HOLTER SALMON RICKHAM

VENTRICULOSTOMY RESERVOIR

(includes Ventricular Catheter, 15cm), Low Profile

**82-1625** Stainless Steel Base

**82-1617** Plastic Base

HOLTER VENTRICULAR WITH RESERVOIR

MOLDED ONE PIECE, Right Angle Barium

**82-1630** 3cm      **82-1638** 7cm

**82-1632** 4cm      **82-1640** 8cm

**82-1634** 5cm      **82-1642** 9cm

**82-1636** 6cm      **82-1644** 10cm

### PERITONEAL & ATRIAL CATHETERS

HOLTER DISTAL ATRIAL CATHETER, Barium

**82-1670** Type A, 45cm

**82-1672** Type B, 38cm, Sm. 15cm, Lg. 23cm

**83-1674** Type C, 45cm, Sm. 3cm, Lg. 39cm

**82-1676** Type E, 48cm, Sm. 24cm, Lg. 24cm

**82-1678** Type H, 42cm, Sm. 39cm, Lg. 3cm

HOLTER DISTAL PERITONEAL CATHETER, BARIUM

**82-1682** 90cm, Open End, Type A

**82-1684** 90cm, Simon-Style Closed End, Distal Slit

ACCU-FLO DISTAL OPEN END

**82-1380** ACCU-FLO Barium, 91cm

# ICP REFERENCE CHART

---

## DISTAL VALVE SYSTEMS

---

### VENTRICULAR CATHETERS

#### HOLTER™ VENTRICULAR CATHETER

**82-1650** 15cm, Straight Barium

#### HOLTER VENTRICULAR CATHETER, Right Angle Barium

**82-1652** 3cm      **82-1660** 7cm

**82-1654** 4cm      **82-1662** 8cm

**82-1656** 5cm      **82-1664** 9cm

**82-1658** 6cm      **82-1665** 10cm

#### ACCU-FLO™ VENTRICULAR CATHETER

**82-1201** 15cm, Barium

**82-1212** 15cm, Barium Flanged

**82-1203** 30cm, Clear

**82-1221** 15cm, Dotted

#### ACCU-FLO VENTRICULAR CATHETER, Right Angle Barium

**82-1231** 5cm      **82-1233** 9cm

**82-1232** 7cm      **82-1234** 11cm

#### ACCU-FLO VENTRICULAR CATHETER

**82-2830** 15cm, Straight Barium

---

### RESERVOIRS

#### ACCU-FLO BURR HOLE RESERVOIR

**82-1401** 4mm

#### ACCU-FLO SINGLE DOME, FLAT BOTTOM

**82-1411**

#### ACCU-FLO DOUBLE DOME, FLAT BOTTOM

**82-1421**

---

### PERITONEAL & ATRIAL CATHETERS

#### ACCU-FLO DISTAL SLIT VALVE CATHETER, BARIUM

**82-1301** 91cm, Low Pressure

**82-1302** 91cm, Medium Pressure

**83-1303** 91cm, High Pressure

#### ACCU-FLO DISTAL SLIT VALVE CATHETER, DOTTED

**82-1321** 91cm, Low Pressure

**82-1322** 91cm, Medium Pressure

---

### ONE PIECE DISTAL VALVE SYSTEMS

#### UNI-SHUNT SYSTEM WITH RESERVOIR

**82-8501** 53cm, Low Pressure

**82-8502** 53cm, Medium Pressure

**83-8511** 62cm, Low Pressure

**82-8512** 62cm, Medium Pressure

**82-8521** 78cm, Low Pressure

**82-8522** 78cm, Medium Pressure

#### UNI-SHUNT WITH ENLARGED DOME RESERVOIR (Adult Size)

**82-8531** 90cm, Low Pressure

**82-8532** 90cm, Medium Pressure

**82-8533** 90cm, High Pressure

**82-8541** 102cm, Low Pressure

**82-8542** 102cm, Medium Pressure

**83-8543** 102cm Pressure

---

## MISCELLANEOUS PRODUCTS

---

### LUMBAR-PERITONEAL SHUNTS

#### HOLTER LUMBO-PERITONEAL SHUNT

**82-1698** 65cm, 3.5mm slit

**82-1699** 65cm, 4.0mm slit

#### JAMES LUMBAR PERITONEAL SHUNT

**82-6200** 25cm, Medium Pressure

**82-6201** 50cm, Medium Pressure

**82-6202** 80cm, Medium Pressure

---

### ACCESSORY PRODUCTS

#### HOLTER CONNECTOR

**82-1694** Type A, Straight, Stainless Steel

**82-1695** Type B, Straight, Step Down, Stainless Steel

**83-1696** Type "T" Connector, Plastic

#### ACCU-FLO CONNECTOR

Plastic      Metal

**82-1504**      **82-1501** Straight Non-Spring to Non-Spring

**82-1507**      **82-1511** Right Angle Non-Spring to Non-Spring

**82-1520**      **82-1521** Three-Way, Non-Spring

---

### VENTRICULAR ACCESS DEVICES

#### ACCU-FLO C.S.F. RESERVOIR

(Included Ventricular Catheter, 15cm)

**82-6100** 14cm

**82-6101** 24mm

#### HOLTER RICKHAM VENTRICULOSTOMY RESERVOIR

**82-1621** Standard, Stainless Steel Base

**82-1615** Standard, Plastic Base

**83-1623** Large, Stainless Steel Base

**82-1616** Large, Plastic Base

HOLTER SELKER VENTRICULOSTOMY RESERVOIR  
(Included Ventricular Catheter, 15cm)

**82-1618** Small, Plastic Base

**82-1619** Large, Plastic Base

HOLTER SALMON RICKHAM VENTRICULOSTOMY  
RESERVOIR, MOLDED ONE PIECE

(includes Ventricular Catheter, 15cm) Low Profile

**82-1625** Stainless Steel Base

**82-1617** Plastic Base

HOLTER VENTRICULAR CATHETER WITH RESERVOIR  
Right Angle Barium

**82-1630** 3cm      **82-1638** 7cm

**82-1632** 4cm      **82-1640** 8cm

**82-1634** 5cm      **82-1642** 9cm

**82-1636** 6cm      **82-1644** 10cm

## ADDITIONAL SHUNT PRODUCTS

DISTAL CATHETER PLACEMENT INSTRUMENTS

**82-1693**

HOFFMAN STAINLESS STEEL SHUNT PASSER

**82-1715** 45,7cm, Short

**82-1716** 61.0cm, Long

MALLEABLE CATHETER PASSER

**82-1515** 36cm, Short

**82-1516** 55cm, Long

INTRODUCER AND CONE SET

**82-1690**

DISTAL CATHETER PASSER, SALMON STYLE

**82-1692**

SPLIT TROCAR, STERILE, DISPOSABLE, 10cm

**82-4095**

UNI-SHUNT WITH RESERVOIR INTRODUCER

STERILE, DISPOSABLE

**82-8594**

ACCU-FLO BURR HOLE BUTTONS, STERILE, 10/Package

**82-6010**

ACCU-FLO BURR HOLE COVERS, STERILE, 10/Package

**82-6025** Diameter 10mm, Depth 6mm

**82-6026** Diameter 16mm, Depth 10mm

U-CHANNEL STRIPPING

**82-6001**

DISPOSABLE SCOTT CANNULAS

**16-1054** 6cm

**16-1055** 8cm

**16-1056** 10cm

HOLTER IN-LINE SHUNT FILTER

**82-1697**

UNI-SHUNT ABDOMINAL SLIP CLIP

**82-4090**

UNI-SHUNT RIGHT ANGLE ANCHORING CLIP

**82-4092**

TOUHY NEEDLE FOR INSERTION OF

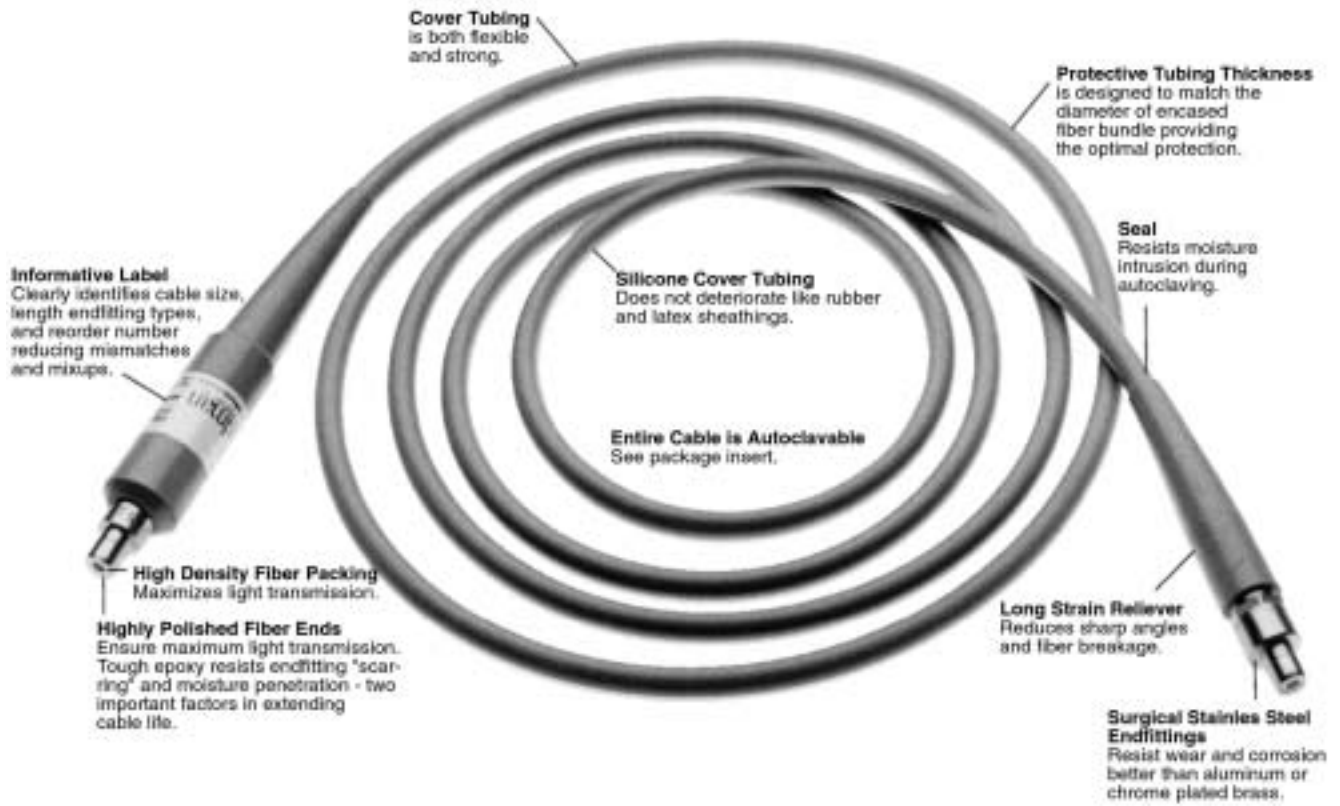
JAMES LUMBAR-PERITONEAL SHUNT

**45-1020**



# HEADLIGHTS & LIGHT SOURCES CABLES

---



---

## FIBEROPTIC CABLES

For a complete listing of Codman's Fiberoptic  
Cables, see the Fiberoptic Cable Order Index.

---

# HEADLIGHTS & LIGHT SOURCES CABLES

CABLE LIGHTSOURCE ENDFITTING	CABLE INSTRUMENT ENDFITTING	CABLE INSTRUMENT ENDFITTING TYPE	BUNDLE SIZE	CABLE LENGTH	ORDER NO.		
CODMAN/ACMI	CODMAN/ACMI	Male	3.5mm	7.5'-(229cm)	24-3075		
			5.0mm	7.5'-(229cm)	24-3076		
			5.0mm	7.5'-(229cm)	24-3077		
			5.0mm	10.0'-(307cm)	24-3074		
			6.5mm	6.0'-(184cm)	24-3078		
			6.5mm	7.5'-(229cm)	24-3079		
		Female	3.5mm	7.5'-(229cm)	24-3080		
			5.0mm	7.5'-(229cm)	24-3081		
			PILLING	Female	3.5mm	7.5'-(229cm)	24-3085
			STORZ	Male	3.5mm	7.5'-(229cm)	24-3086
					5.0mm	7.5'-(229cm)	24-3087
			WOLF	Female	3.5mm	7.5'-(229cm)	24-3088
5.0mm	7.5'-(229cm)	24-3090					
DESIGNS FOR VISION	CODMAN/ACMI	Male	6.5mm	7.5'-(229cm)	24-3091		
	DESIGNS FOR VISION	Male	6.5mm	7.5'-(229cm)	24-3092		
PILLING	PILLING	Female	3.5mm	7.5'-(229cm)	24-3094		
	CODMAN/ACMI	Male	5.0mm	7.5'-(229cm)	24-3095		
STORZ	STORZ	Male	3.5mm	7.5'-(229cm)	24-3096		
			5.0mm	7.5'-(229cm)	24-3097		
	CODMAN/ACMI	Male	5.0mm	7.5'-(229cm)	24-3098		
STRYKER	STRYKER	Male	3.5mm	7.5'-(229cm)	24-3099		
WOLF	WOLF	Female	3.5mm	7.5'-(229cm)	24-3101		
			5.0mm	7.5'-(229cm)	24-3102		
	CODMAN/ACMI	Male	5.0mm	7.5'-(229cm)	24-3103		
<b>DURABRITE LITEWEIGHT CABLES:</b>							
CODMAN/ACMI	CODMAN/ACMI	Female	3.0mm	7.5'-(229cm)	24-3109		
	STROZ	Male	3.0mm	7.5'-(229cm)	24-3111		



# HEADLIGHTS & LIGHT SOURCES CABLES

---

## ADDITIONAL DESCRIPTION/SUBSTITUTION GUIDE

Rotating Distal Endfittings; Use for Small Instruments, Medium Cystoscopes  
Best for All 5mm Retractors; Laparoscopes; Large Cystoscopes  
"Low Profile" strain Reliever for CODMAN/Codman Headlights-Reduces Cable "Loop"  
Low Profile Strain reliever Cable for Headlights; Longer Version of 24-3077  
Best for Large 6mm + Retractors & Codman MicroSystem Microscope  
Longer Version of 24-3078  
Rotating Distal Endfitting; Best for Small Instruments; replaces ACMI FO-401-3A  
Best for Large Instruments; replaces ACMI FO-401-5A

"Low Profile" Strain Reliever Reduces Cable "Loop"

Best for Small Cystoscopes; Replaces Storz 495P; Rotating Distal Endfitting  
Best for Large Cystoscopes; Replaces Storz 495P; Rotating Distal Endfitting

Best for Medium Cystoscope; replaces Wolf 4057-02; Rotating Distal Endfitting with Clip  
Best for 10mm Laparoscope; replaces Wolf 4055-02; Clip on Distal Endfitting

Use with Designs for Vision Lightsource and ACMI/CODMAN Instruments/Headlights

Best for Designs for Vision Headlight; "Low Profile" Distal Endfitting Reduces Cable "Loop"

Best for Laryngoscopes, Esophagoscopes, Small Instruments  
Replaces Pilling 521160-521161

Use with Pilling Lightsource and ACMI/CODMAN Instruments/Headlights  
Best for Small Cystoscope; Replaces Storz 495 NL; Rotating Distal Endfitting  
Best for Large Cystoscope; Replaces Storz 495 NL; Rotating Distal Endfitting

Use with Storz Lightsource and ACMI/CODMAN Instruments/Headlights; Rotating Endfitting 4/81

Best for Retractors; Replaces Stryker 220-25

Best for 5mm Laparoscope; Replaces Wolf SA 4056-01; Rotating Endfitting with Clip  
Best for 10mm Laparoscope; Replaces Wolf SA 4055-01; Clip On Distal Endfitting

Use with Wolf Lightsource and ACMI/CODMAN Instruments/Headlights

Replaces ACMI #FO-401-3A, Ideal for ACMI Cystoscopes; Use with Small BRITETRAC™ Instruments

3mm Cable for use with ACMI Lightsource

---

# HEADLIGHTS & LIGHT SOURCES CABLES

## ENDFITTING AND BUNDLE INDEX

Match your fiberoptic cable endfittings with the endfittings pictured below.

## SELECTION OF FIBEROPTIC CABLES FOR ENDOSCOPES

As a guideline, the following diameters are most frequently used with rigid endoscopes:

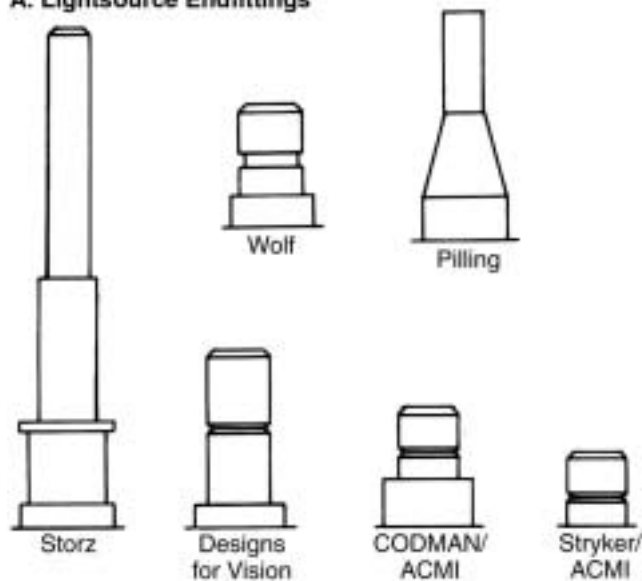
Cable	Endoscope
3.5 mm	Cystoscope Arthroscope Laryngoscopes
5.0 mm	Laparoscope (5mm, 7mm, 10mm)

All telescopes are made with a standard ACMI light guide post (male endfitting) to which each manufacturer then adds their own adapter. When this adapter is removed, the Codman/ACMI female cable endfitting will now fit most endoscopes.

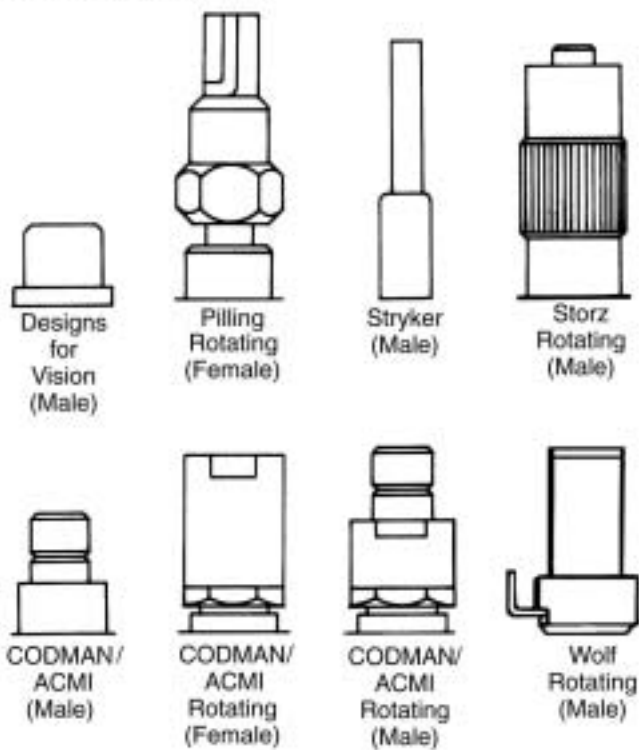
To examine your fiberoptic cables:

- Hold one end of the fiberoptic cable toward a low power light such as an overhead light.
- With a magnifying glass focus on the opposite end.
- Compare the number of broken fibers in the cable with the examples above.
- Fiber breakage of greater than 20% warrants replacement.

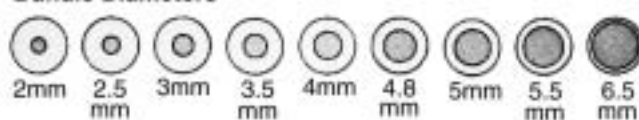
### A. Lightsource Endfittings\*



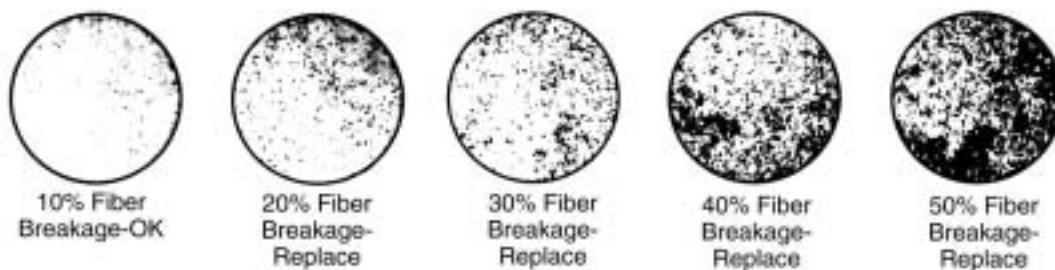
### B. Instrument Endfittings\*



### Bundle Diameters\*



\*1 to 1 scale



# HEADLIGHTS & LIGHT SOURCES

## HEADLIGHTS

---

**24-2999** FIBEROPTIC Lightweight Coaxial Rotary Headlight, with variable spot.  
Spot range 20-90mm  
Focal distance 18" (460mm)

---



---

# HEADLIGHTS & LIGHT SOURCES

## HEADLIGHT ACCESSORIES

---

**24-3006** Headlight Accessories Kit, two joysticks, two garment clips, and ten twist locks.

---

---

# HEADLIGHTS & LIGHT SOURCES

## HEADLIGHT FIBEROPTICS

---

**24-3035** MC-3 Lightsource  
The MC-3 allows for simultaneous use of two lamps, with an additional built-in spare. A heavy-duty circuit breaker provides maximum safety. Three-step intensity switches on each channel permit selection of the optimum illumination level.  
(120 Vac-50/60 HZ)

---



HEADLIGHTS/  
LIGHT SOURCES

# HEADLIGHTS & LIGHT SOURCES

## HEADLIGHT FIBEROPTICS

---

- 24-3032** TWIN-BEAM Lightsource  
The TWIN-BEAM Lightsource is our standard light source. The twin-Beam contains two 150 watt, DNF lamps, one primary lamp, the other to serve as a built-in spare lamp. This allows rapid change to the spare in the event the primary lamp burns out.  
(120 Vac-50/60 HZ)
- 

# HEADLIGHTS & LIGHT SOURCES

## INSTRUMENTS

---



- BRITETRAC™ Deavers.**
- |                |             |     |         |
|----------------|-------------|-----|---------|
| <b>24-3166</b> | Small       |     |         |
|                | Blade width | 1"  | (25mm)  |
|                | Blade depth | 10" | (254mm) |
|                | Length      | 13" | (330mm) |
| <b>24-3167</b> | Medium      |     |         |
|                | Blade width | 1½" | (39mm)  |
|                | Blade depth | 10" | (254mm) |
|                | Length      | 13" | (330mm) |
-

# HEADLIGHTS & LIGHT SOURCES INSTRUMENTS

---

	RIGHT ANGLE BRITETRAC™ Retractors.	
<b>24-3143</b>	Blade width	1" (25mm)
	Length	6" (152mm)
	Suggested clinical application; Mammoplasty, Rhytidectomy, Bankhart Procedure	
<b>24-3146</b>	Blade width	1½" (38mm)
	Length	6" (152mm)
	Suggested clinical application; Mammoplasty, Hip Procedures	
<b>24-3148</b>	Blade width	1½" (38mm)
	Length	10" (254mm)
	Suggested clinical application; Abdominal Aortic Reconstruction, Diaphragmatic Hernia Repair (Belsey or Hill Procedure), Selective Vagotomy	
<b>24-3149</b>	Serrated Blade	
	Blade width	1" (25mm)
	Length	¾" (82mm)
	Suggested clinical application; Rhytidectomy, Laminectomy	
<b>24-3150</b>	Serrated Blade	
	Blade width	1½" (38mm)
	Length	¾" (82mm)
	Suggested clinical application; Rhytidectomy, Laminectomy	

---



24-3149

# HEADLIGHTS & LIGHT SOURCES INSTRUMENTS

---



---

**24-3169** TAYLOR BRITETRAC™ Spinal Retractor, with 5mm fiberoptic bundle.  
Blade length 3" (75mm)

---



---

**24-3152** FRAZIER BRITETRAC™ Suction Tube, with 3mm fiberoptic bundle.  
Length 4½" (114mm)  
9 Fr.

---



---

**24-3171** FEMALE Rotating Connector, converts permanent male endfitting to freely rotating female. Allows for complete rotation of the instrument without cable interference.

---

# HEADLIGHTS & LIGHT SOURCES

## LIGHTSOURCE ACCESSORIES

---

---

	LAMPS
24-3054	DNF Bulb, 150 watt for TWIN or MC-3 Lightsource.
24-3055	Gemini Mercury-ARC 300 Watt for BRITE-LITE™ II Lightsource.

---

---

### LIGHTSOURCE Electrical Specifications

ELECTRICAL,  
120 VAC 50/60 HZ OR 230VAC 50/60HZ –  
Max. 310 watts  
BULBS,  
Quartz-Halogen DNF – 150 watt (Single, Twin  
or MC-3) – Mercury-Arc – 300 watt (Brite-Lite II)  
INTENSITY SWITCHES  
Four Position – Off/Low/Medium/High – (Single,  
Twin or MC-3) – Rheostat – (Brite-Lite II)  
RECEPTACLES,  
ACMI/AFI Female of Stainless Steel  
ON/OFF SWITCH,  
Rocker Type – Double Pole  
FUSES,  
2 AMP, Slow-Blow (Single or Twin Beam)  
CIRCUIT BREAKER,  
Double Pole (MC-3 or Brite-Lite II)  
CORD,  
18 Gauge, 15½' (4.7m)  
PLUG,  
Hubbell Hospital Grade (U.S.)  
ACMI RECEPTACLES

---

# HEADLIGHTS & LIGHT SOURCES

## LIGHTSOURCE ACCESSORIES

---



---

**24-3043** FLOORSTAND, with five conductive casters.  
Height (Floor to Lightsource) 42" (1.06m)

---