SPICA®

Surgical Instruments catalog

주| 우양메디칼

SPICA® Surgical Instruments

1984년 창사 이래 우양메디칼은 각 병원의 상황에 적합한 최적의 수술기구 공급에 최선을 다해왔습니다.

우양메디칼은 수술기구 제조 100년 역사를 가진 미국 **Integra**사의 **Miltex**를 비롯하여 ENT 전문기구 **MicroFrance**, 성형외과용 **PADGETT**, 정형외과 · 신경외과 전문기구 **Innomed** 등의 한국 총판을 담당하고 있습니다.

30여년 이상 수술기구 전문 기업으로 입지를 다져오면서 좋은 품질의 수술기구를 합리적인 가격에 공급하고자 자사 브랜드 **SPICA**를 개발하였습니다.

SPICA 수술기구는 파키스탄 수술기구 전문기업(ISO 13485, CE 인증)을 통해 제조되는 우양메디칼의 OEM 제품으로 수술 케이스가 비교적 적은 중·소규모의 병의원 및 종합대학병원의 외래 수술용으로 개발되었으며 양질의 기구를 합리적인 가격에 공급하고자 원자재 선택에서부터 시험검사, 제조공정, 최종검수 및 포장에 이르기까지 엄격한 품질관리시스템에 의해 제품을 생산합니다.

본 카탈로그에 게재된 기본 품목은 상시 재고를 갖추어 즉시 납품이 가능하도록 노력하고 있으며, 특수 용도의 각 과별 전문기구도 사용하고 계신 브랜드의 item no.를 주시면 conversion하여 최상의 조건으로 공급하겠습니다.

SPICA Standard

중소 로칼병원 및 종합병원의 중앙공급실 용도로 개발되었습니다.

SPICA Premium

파키스탄 협력업체에서 제조되어 독일로 수출되는 제품과 동일한 자재와 공정을 통해 제조되어 **가격대비 성능이 우수**합니다.

※ SPICA 수술기구는 제조상의 하자 및 품질관련 문제를 ㈜우양메디칼에서 보증합니다.

CONTENTS

SCALPEL HANDLES / SURGICAL BLADES 1

BIOPSY PUNCHES 2

DIAGNOTIC INSTRUMENTS

- Hammers 3
- Tunning Fork, Pin Wheels 4

LARYNGOSCOPE 5

SCISSORS

- Operating Scissors ..... 6 - 10
- Ribbon Type 11
- Tenotomy, Nasal, Micro ..... 12 - 14
- Bandage, Wire Cutting, Stitch ..... 15 - 16
- TC Metzenbaum 17

FORCEPS

- Dressing & Tissue Forceps ..... 18 - 24
- Splinter, Chalazion, Ear, Nasal, Uterine ..... 25 - 28
- Hemostatic Forceps ..... 29 - 34
- Intestinal, Magil, Uro, Gynecological ..... 35 - 38
- Sponge 39
- Suturing 40

CLAMPS

- Towel, Intestinal, Pylorus 41
- Bulldog 42
- Tube Occluding, Vasectomy 43

NEEDLE HOLDERS

- Needle Holders ..... 44 - 45
- TC (Tungsten Carbide) ..... 46 - 48

RETRACTORS

- Hand Retractors ..... 49 - 59
- Self Retaining Retractors ..... 60 - 64

HOOKS 65

SPECULA

Vaginal, Eye, Rectal ..... 66 - 69

Ear, Nasal ..... 70 - 71

EXTRACTORS

Comedone Extractors ..... 72 - 73

SUCTION TUBES ..... 74 - 75

CURETTES ..... 76 - 78

DILATORS ..... 79 - 81

ELEVATORS ..... 82 - 83

PIN, WIRE, GUIDE

Pin & Wire Cutter / Forcep, Guide ..... 84 - 85

OSTEOTOMES ..... 86 - 87

GAUGES, CHISELS, IMPACTORS, SAW, RASP ..... 88 - 90

BONE FILE, PIN HOLDER, DRIVER ..... 91 - 93

BONE FORCEPS

Bone Holding Forceps ..... 94 - 95

Bone Cutting Forceps 96

MALLETS ..... 97 - 98

RONGEURS, BIOPSY FORCEPS

Bone, Rongeurs 99

Kerrison Rongeurs 100

Biopsy Forceps 101

Pituitary Rongeurs 102

STRAIGHTERS, LIGATORS, MOUTH GAG, CALIPERS ..... 103 - 106

PROBE, SOUND, MIRRORS ..... 107 - 108

HAND & INSTRUMENT BRUSHES 109

STAINLESS STEEL WARES ..... 110 - 112

Scalpel handles / Surgical blades

SPICA®

S4-7 S4-8 S4-9

S4-100

Scalpel Handles

S4-7	KNIFE HANDLE No.3 fitting surgical blades Nos. 10 thru 15, Extra fine
S4-8	KNIFE HANDLE No.4 fitting surgical blades Nos. 20 thru 25, Extra fine
S4-9	KNIFE HANDLE No.7 fitting surgical blades Nos. 10 thru 15, Extra fine
S4-100	BLADE SAFE Surgical Blade Remover

Surgical Blades-Disposable / Sterile

Stainless Steel	Size
S4-310	10
S4-311	11
S4-312	12
S4-315	15
S4-315C	15C
S4-320	20
S4-321	21
S4-322	22
S4-325	25

Biopsy Punches

SPICA®

- Individually packaged in transparent pack, cap to protect cutting edge
- Seamless stainless steel razor sharp cutting edge
- Ribbed handle provides maximum control and comfort
- Sterile – ready to use every time
- Packed 25 biopsy punches to a dispenser box

Sterile Disposable Biopsy Punches

	Size		Size
PSBP 1.0	1.0mm	PSBP 4.0	4.0mm
PSBP 1.5	1.5mm	PSBP 5.0	5.0mm
PSBP 2.0	2.0mm	PSBP 6.0	6.0mm
PSBP 2.5	2.5mm	PSBP 7.0	7.0mm
PSBP 3.0	3.0mm	PSBP 8.0	8.0mm
PSBP 3.5	3.5mm		

S1-200

S1-210

S1-211

S1-220

S1-200	TAYLOR Percussion Hammer 7" (17.8cm), Pediatric Size, solid handle
S1-210	DEJERINE Percussion Hammer 9½" (24.1cm), chrome
S1-211	TROMNER Percussion Hammer 9¾" (24.8cm), with Large and Small Rubber Tips, hollow tapered handle with sharp point, chrome
S1-220	Buck Neurological Hammer 7¾" (19.7cm), with Brush and Needle (screw into handle), chrome

S1-226

S19-102

S19-106

S1-226	WARTENBERG Neurological Pin Wheel 7" (17.8cm)
S19-102	Tuning Forks, Aluminum Alloy, C-128 vibrations
S19-106	Tuning Forks, Aluminum Alloy, C-512

Laryngoscopes Set (Macintosh)

SPICA®

S23-158F S23-159F

S23-156-1

S23-156-2

S23-156-3

S23-155

S23-156B

S23-156-4

S23-158F	Laryngoscope Set, Macintosh 3 blades (1handle + 3 blades)
S23-159F	Laryngoscope Set, Macintosh 4 blades (1handle + 4 blades)
S23-155	Laryngoscope handle Medium(C) size
S23-156-1	MACINTOSH Fiberoptic Blade Size #1 (70mm)
S23-156-2	MACINTOSH Fiberoptic Blade Size #2 (90mm)
S23-156-3	MACINTOSH Fiberoptic Blade Size #3 (108mm)
S23-156-4	MACINTOSH Fiberoptic Blade Size #4 (133mm)
S23-156B	Fiberoptic Handle Spare Lamp LED

Operating scissors

S5-6

S5-16
S5-18
S5-19

S5-26
S5-28

S5-36

S5-46

S5-56

STANDARD PATTERN OPERATING SCISSORS

S5-6	Sharp-sharp points, straight, 5½" (14cm)
S5-36	Sharp-sharp points, curved, 5½" (14cm)
S5-16	Sharp-blunt points, straight, 5½" (14cm)
S5-46	Sharp-blunt points, curved, 5½" (14cm)
S5-18	Sharp-blunt points, straight, 6½" (16.5cm)
S5-19	Sharp-blunt points, straight, 7½" (19.1cm)
S5-26	Blunt-blunt points, straight, 5½" (14cm)
S5-56	Blunt-blunt points, curved, 5½" (14cm)
S5-28	Blunt-blunt points, straight, 6½" (16.5cm)

S5-120
S5-124
S5-128

S5-122
S5-126
S5-130

MAYO DISSECTING SCISSORS

S5-120	5½" (14cm), straight, standard beveled blades
S5-122	5½" (14cm), curved, standard beveled blades
S5-124	6¾" (17.1cm), straight, standard beveled blades
S5-126	6¾" (17.1cm), curved, standard beveled blades
S5-128	9" (22.9cm), straight, standard beveled blades
S5-130	9" (22.9cm), curved, standard beveled blades

S5-175
S5-177

S5-180

S5-179

S5-182

S5-181
S5-183
S5-186

S5-288

METZENBAUM SCISSORS-STANDARD PATTERN

S5-175	4" (10cm), straight	S5-182	7" (17.8cm), curved
S5-177	4" (10cm), curved	S5-183	8" (20.3cm), straight
S5-179	(Lahey) 5½" (14cm), straight	S5-184	8" (20.3cm), curved
S5-180	5½" (14cm), curved	S5-186	(Nelson) 9" (22.9cm), straight
S5-181	7" (17.8cm), straight	S5-188	9" (22.9cm), curved

METZENBAUM SCISSORS-DELICATE PATTERN

S5-288 7" (17.8cm), curved

S5-162

S5-226

S5-160 S5-220 S5-224 S5-230 S30-2195

S5-160	DOYEN Abdominal Scissors 7" (17.8cm), straight
S5-162	DOYEN Abdominal Scissors 7" (17.8cm), curved
S5-220	SIMS Scissors 8" (20.3cm), straight, sharp-sharp points
S5-226	SIMS Scissors 8" (20.3cm), curved, sharp-sharp points
S5-224	SIMS Scissors 8" (20.3cm), straight, blunt-blunt points
S5-230	SIMS Scissors 8" (20.3cm), curved, blunt-blunt points
S30-2195	BRAUN Episiotomy Scissors 8½" (21.6cm), angled to side, guarded lower blade

S5-300

S5-302

S5-306

S5-304

S18-1422

S18-1426

S5-300	Iris Scissors 4" (10.2cm), straight, delicate
S5-302	Iris Scissors 4" (10.2cm), curved, delicate
S5-304	Iris Scissors 4½" (11.4cm), straight
S5-306	Iris Scissors 4½" (11.4cm), curved
S18-1422	KNAPP Iris Scissors 4" (10.2cm), straight, blunt-blunt points
S18-1426	KNAPP Iris Scissors 4" (10.2cm), curved, sharp-blunt points

Scissors – Iris, Blepharoplasty Ribbon Type

SPICA®

S18-1418

S4640

S4701
S4702
S4704

S4955

S18-1418	Iris Scissors 3¾" (9.5mm), curved, miniature pattern with 14mm blades, ribbon type
S4640	Iris Suture Scissors, Flat Shank, Slightly Curved, Sharp 10.2cm
S4701	Iris Scissors Delicate, Ribbon Type ,Straight, Sharp/Short Blades 3¾" (9.5mm), ribbon type
S4702	Iris Scissors Delicate, Ribbon Type, Curved, Sharp/Short Blades 3¾" (9.5mm), ribbon type
S4704	Iris Scissors Very Delicate, Curved, Sharp/Long Blades 4" (10.2cm)
S4955	Kaye Blepharoplasty Scissors Curved, Serrated Blade 4¼” (10.8cm), ribbon type

S18-1464

S18-1474
S18-1476

S18-1462

S18-1472

S20-160

STEVENS TENOTOMY SCISSORS

S18-1462	10.5cm, with Short Blades, Straight Blunt Points
S18-1464	10.5cm, with Short Blades, Curved Sharp Points
S18-1472	11.4cm with Long Blades, Straight Blunt Points
S18-1474	11.4cm, with Long Blades, Curved Sharp Points
S18-1476	11.4cm, with Long Blades, Curved Blunt Points

KNIGHT NASAL SCISSORS

S20-160	6¾" (17.1cm), angled on side, standard pattern

S18-1620

S18-1622

S18-1623

S18-1620	VANNAS Capsulotomy Scissors 3¼" (8.3cm), straight, very delicate sharp points
S18-1622	VANNAS Capsulotomy Scissors 3¼" (8.3cm), curved, very delicate sharp points
S18-1623	VANNAS Capsulotomy Scissors 3¼" (8.3cm), angled to side, very delicate sharp points

S18-1486

S18-1480
S18-1486W

S17-2049
S17-2050

S17-2100
S17-2110

S17-2150
S17-2160

S18-1480	WESTCOTT Scissors 11.4cm, curved, blunt points
S18-1486W	WESTCOTT Scissors 10cm, curved, blunt points
S18-1486	WESTCOTT Scissors 11.4cm, curved, sharp points
S17-2049	CASTROVIEJO Scissors 10cm, curved, flat handles
S17-2050	CASTROVIEJO Scissors 12.5cm, curved, flat handles
S17-2150	MICRO Scissors, Sharp points,15.2cm straight, 6mm blades, round handles
S17-2100	MICRO Scissors, Sharp points,15.2cm curved, 6mm blades, round handles
S17-2160	MICRO Scissors, Sharp points,18.1cm straight, 6mm blades, round handles
S17-2110	MICRO Scissors, Sharp points,18.1cm curved, 6mm blades, round handles

S5-1100
S5-1000

S5-514
S5-516

S5-600

S9D-132

S9-124

S5-1000	Universal Bandage Scissors plastic handle 19cm (black)
S5-1100	Universal Bandage Scissors plastic handle 15cm (black)
S5-514	LISTER Bandage Scissors 5½" (14cm), extra fine
S5-516	LISTER Bandage Scissors 7¼" (18.4cm), extra fine
S5-600	First Aid and Utility Shears 8½" (21.6cm), with wire cutter and serrated blade
S9D-132	WIRE CUTIING Scissors 4¼" (10,8cm) Straight, one serrated blade
S9-124	WIRE CUTTING Scissors 4¾" (12.1cm) Angled to side, one serrated blade

S9-100

S9-101

S9-102

S9-103

S9-104

S9-117

S9-100	SPENCER Stitch Scissors 8.9cm, delicate
S9-101	SHORTBENT Stitch Scissors 8.9cm, curved, delicate
S9-102	LITTAUER JR. Stitch Scissors 11.4cm, light pattern
S9-103	NORTHBENT Stitch Scissors 12.1cm, curved, light pattern
S9-104	LITTAUER Stitch Scissors 14cm, standard pattern
S9-117	MILTEX Stitch Scissors 12.4cm, curved, sharp pointed tips, ribbon type

S5-180 TC

S5-182A TC

S5-182B TC

S5-180TC	METZENBAUM SCISSORS - standard pattern, curved, 5½“ (14cm), blunt points
S5-182A-TC	METZENBAUM SCISSORS - delicate pattern, curved, 7" (17.8cm), blunt points
S5-182B-TC	METZENBAUM SCISSORS - delicate pattern, curved, 7" (17.8cm), sharp points

S6-8 to S6-18

S6-44 to S6-50

Dressing Forceps,
serrated handles and tip

S6-8	5½" (14cm)
S6-10	6" (15.2cm)
S6-12	7" (17.8cm)
S6-14	8" (20.3cm)
S6-16	10" (25.4cm)
S6-18	12" (30.5cm)

Tissue Forceps,
serrated handles 1 x 2 teeth

S6-44	5½" (14cm)
S6-46	6" (15.2cm)
S6-47	7" (17.8cm)
S6-48	8" (20.3cm)
S6-50	10" (25.4cm)

S6-104

S6-166

S6-168

S6-188

S6-189

S6-104	SEMKEN Dressing Forceps 5" (12.7cm), serrated
S6-166	CUSHING Dressing Forceps 7" (17.8cm), serrated, Gutch handle, scraper end
S6-168	CUSHING Tissue Forceps 7" (17.8cm), 1 x 2 teeth, Gutch handle, scraper end
S6-188	CUSHING Dressing Forceps 7" (17.8cm), serrated handle, serrated jaws, dissecting end
S6-189	CUSHING Tissue Forceps 7" (17.8cm), 1 x 2 teeth, scraper end

S6-118 S6-118XL S6-120 S6-120XL S6-124 S17-2510 S17-2500

ADSON FORCEPS

S6-118	ADSON Dressing Forceps 4¾" (12.1cm), serrated, delicate
S6-118XL	ADSON Dressing Forceps 4¾" (12.1cm), serrated, lightweight, fenestrated handles
S6-120	ADSON Tissue Forceps 4¾" (12.1cm), 1 x 2 teeth, delicate
S6-120XL	ADSON Tissue Forceps 12.1cm, 1 x 2 teeth, lightweight, fenestrated handles
S6-124	BROWN-ADSON Tissue Forceps 4¾" (12.1cm), 7 x 7 side grasping teeth
S17-2510	Micro ADSON Dressing Forceps 4¾" (12.1cm), serrated tips, 0.5mm wide
S17-2500	Micro ADSON Tissue Forceps 4¾" (12.1cm), tips 0.5mm wide, 1 x 2 teeth

S6-142
S6-144
S6-145

S24-570

S6-142	RUSSIAN Tissue Forceps 6" (15.2cm)
S6-144	RUSSIAN Tissue Forceps 8" (20.3cm)
S6-145	RUSSIAN Tissue Forceps 10" (25.4cm)
S24-570	DeBAKEY ATRAUMATIC (VASCULAR) TISSUE FORCEPS, 1.5mm wide jaw tips, 6" (15.2cm)

S18-866

S18-867

S18-868

S18-1136

S18-868	BISHOP·HARMON Tissue Forceps 3 ⅜" (8.6cm), standard 0.7mm 1 x 2 teeth
S18-867	BISHOP·HARMON Micro Tissue Forceps 3 ⅜" (8.6cm), delicate 0.3mm 1 x 2 teeth
S18-866	BISHOP·HARMON Dressing Forceps 3 ⅜" (8.6cm), fine cross serrated tips 0.5mm wide
S18-1136	BERKE Ptosis Forceps 4" (10.2cm), blades 20mm with longitudinal serrations, with slide lock

S19-370
S19-371
S19-372
S19-373

S6-197
S6-198

S66-317

JANSEN Ear Dressing Forceps

S19-370	14cm, bayonet shape with serrated tips
S19-371	16cm, bayonet shape with serrated tips
S19-372	18cm, bayonet shape with serrated tips
S19-373	20cm, bayonet shape with serrated tips
S6-197	JANSEN (GRUENWALD) Bayonet Dressing Forceps 15.9 cm, serrated tips
S6-198	ADSON Bayonet Dressing Forceps 8¼" (21cm), serrated tips
S66-317	London College Tooth Tweezer, 15.2cm

S18-779 S18-780 S18-782 S18-785 S18-786 S18-788

Eye Dressing Forceps

S18-779	10.2cm, serrated tips, Extra Delicate Pattern, 0.5mm wide tips, straight
S18-780	10.2cm, serrated tips, Standard Pattern, 0.8mm wide tips, straight
S18-782	10.2cm, serrated tips, Standard Pattern, 0.8mm wide tips, curved

Iris Tissue Forceps

S18-785	10.2cm, 1 x 2 teeth, Extra Delicate Pattern, 0.5mm wide tips, straight
S18-786	10.2cm, 1 x 2 teeth, Standard Pattern, 0.8mm wide tips, straight
S18-788	10.2cm, 1 x 2 teeth, Standard Pattern, 0.8mm wide tips, curved

S17-301 S17-303X S17-304 S17-305X S17-307X S17-308

SWISS JEWELER STYLE FORCEPS

S17-301	Style1, fine 4¾" (12.1cm)
S17-303X	Style 3, micro-fine, 4¾" (12.1 cm)
S17-304	Style 4, fine, 4⅜" (11.2cm)
S17-305X	Style 5, micro-fine, 4⅜" (11.2 cm)
S17-307X	Style 7, fine curved, 4½" (11.4 cm)
S17-308	Style 8, curved, 4½" (11.4cm)

SPICA®

LAMBERT

S18-1174

HUNT

S18-1178

DESMARRES

S18-1200
S18-1202
S18-1204

FRANCIS

S18-1208

S18-1174 LAMBERT Chalazion Forceps 3½" (8.9cm), inside ring diameter 8mm

S18-1178 HUNT Chalazion Forceps 3¾" (9.5cm), inside ring diameter 12mm

DESMARRES Chalazion Forceps

S18-1200 3½" (8.9cm), small size, inside ring measures 11 x 17mm

S18-1202 3½" (8.9cm), medium size, inside ring measures 12 x 23mm

S18-1204 3½" (8.9cm), large size, inside ring measures 17 x 28mm

FRANCIS Chalazion Forceps

S18-1208 3¾" (9.5cm), inside ring measures 12 x 14 mm

S19-410

S20-150

S20-620

S19-2100

S19-434

S19-410	HARTMANN Ear Forceps 5" (12.7cm), delicate serrated jaws 2.5 x 6mm
S19-2100	Micro Alligator Ear Forceps 3¼" (8.3cm) shaft, serrated jaws 0.8mm wide
S19-434	HARTMAN-NOYES Ear Forceps, alligator type, 3¼" (8.3cm) shaft, serrated jaws
S20-150	MUSEHOLDT Nasal Dressing Forceps 7" (17.8cm), slender long serrated blades
S20-620	MYLES Nasal Cutting Forceps medium, 3mm X 10mm bite

S30-1482

S30-1485

S30-1482	KEVORKIAN·YOUNGE Uterine Biopsy Forceps, 9½" (24.1cm) shaft, 3.5 x 8mm bite, teeth on lower jaw
S30-1485	EPPENDORFER Uterine Biopsy Forceps, 8½" (21.6cm) shaft

Hemostatic Forceps – Halsted, Hartman Mosquito

SPICA®

S7-4

S7-2

S7-10

S7-16

S7-14

S7-26

S7-24

HALSTED Mosquito Forceps

S7-2	5" (12.7cm), straight
S7-4	5" (12.7cm), curved
S7-10	5" (12.7cm), curved, extra delicate
S7-14	5" (12.7cm), straight, 1 x 2 teeth
S7-16	5" (12.7cm), curved, 1 x 2 teeth

HARTMAN Mosquito Forceps

S7-24	3½" (8.9cm), straight
S7-26	3½" (8.9cm), curved

Hemostatic Forceps – Kelly, Crile

SPICA®

S7-38

S7-36

S7-44

S7-48

S7-42

S7-46

S7-50 S7-52

S7-36	KELLY Forceps 5½" (14cm), straight
S7-38	KELLY Forceps 5½" (14cm), curved
S7-42	CRILE Forceps 5½" (14cm), straight
S7-44	CRILE Forceps 5½" (14cm), curved
S7-46	CRILE Forceps 6¼" (15.9cm), straight
S7-48	CRILE Forceps 6" (15.9cm), curved
S7-50	Baby CRILE Forceps 5½" (14cm), straight, extra delicate
S7-52	Baby CRILE Forceps 5½" (14cm), curved, extra delicate

S7-130

S7-118 to S7-130

S7-136 to S7-148

ROCHESTER PEAN Forceps

S7-120	straight 6¼" (15.9cm)	S7-138	curved 6¼" (15.9cm)
S7-122	straight 7¼" (18.4cm)	S7-140	curved 7¼" (18.4cm)
S7-124	straight 8" (20.3cm)	S7-142	curved 8" (20.3cm)
S7-126	straight 9" (22.9cm)	S7-144	curved 9" (22.9cm)
S7-128	straight 10¼" (26cm)	S7-146	curved 10¼" (26cm)

Hemostatic Forceps– Uterine, Rectal, Gynecological

SPICA®

S7-220

S7-66

S7-102

S7-152
S7-154

S30-1700 S30-1710

S30-1000

S30-965

S30-2505

S7-220	PENNINGTON Hemostatic Forceps 6" (15.2cm)
S7-66	KOCHER Tissue Forceps straight 14cm, 1 X 2 teeth
S7-102	DANDY Forceps 5½" (14cm), curved sideways
S7-152	ROCHESTER OCHSNER Forceps 7¼" (18.4cm), straight, 1 X 2 teeth
S7-154	ROCHESTER OCHSNER Forceps 8" (20.3cm), straight, 1 X 2 teeth
S30-1700	HEANEY Hysterectomy Forceps 8¼" (21cm), heavy pattern, single tooth, curved
S30-1710	HEANEY Hysterectomy Forceps 8¼" (21cm), heavy pattern, double tooth, curved
S30-1000	SCHROEDER Uterine Vulsellum Forceps 10" (25.4cm), straight
S30-965	SCHROEDER-BRAUN Uterine Tenaculum Forceps 9¾" (24.8cm), straight
S30-2505	KELLY Placenta Forceps 12½" (31.8cm), serrated ring jaws, slightly curved

S7-202

S7-206

S14-48 S14-49

S7-202	MIXTER Forceps 7¼" (18.4cm), fully curved
S7-206	MIXTER Forceps 9" (22.9cm), fully curved
S14-48	LAHEY Gall Duct Forceps 7½" (19.1cm)
S14-49	LAHEY Gall Duct Forceps 9" (22.9cm)

S25-836 to S25-383

S25-800

S22-662

S25-836	KANTROWITZ Forceps 7½" (19.1cm), delicate right angle jaws
S25-837	KANTROWITZ Forceps 9½" (24.1cm), delicate right angle jaws
S25-838	KANTROWITZ Forceps 11" (27.9cm), delicate right angle jaws
S25-800	SAROT Artery Forceps 9½" (24.1cm), with 2½" (6.4cm) long jaws
S22-662	SCHNIDT Hemostatic Forceps 7½" (19.1cm), slight curve, closed rings

S2-70
S2-72

MAGILL Endotracheal Catheter Introducing Forceps

S2-70	9" (22.9cm), adult size
S2-72	7" (17.8cm), child size

RANDALL Kidney Stone Forceps 23.5cm

S29-284	23.5cm, quarter curved
S29-286	23.5cm, half curved
S29-288	23.5cm, three quarter curved
S29-290	23.5cm, full curved

S16-6
S16-8

S16-10
S16-12

S16-30

S16-44
S16-46

S16-6	ALLIS Tissue Forceps 6" (15.2cm), 4 x 5 teeth
S16-8	ALLIS Tissue Forceps 6" (15.2cm), 5 x 6 teeth
S16-10	ALLIS Tissue Forceps 7¼" (18.4cm), 5 x 6 teeth
S16-12	ALLIS Tissue Forceps 10" (25.4cm), 5 x 6 teeth
S16-30	ALLIS Tissue Forceps 6½" (16.5cm), 9 x 10 teeth
S16-44	BABCOCK Intestinal Forceps 6¼" (15.9cm), jaws 9mm wide
S16-46	BABCOCK Intestinal Forceps 8¼" (21cm), jaws 10mm wide

DOYEN Intestinal Forceps

S16-108	DOYEN Intestinal Forceps 23cm, straight, with diagonal serrations
S16-110	DOYEN Intestinal Forceps 23cm, curved, with diagonal serrations

MAYO-ROBSON Forceps

S16-130	MAYO-ROBSON Forceps 25cm, straight, with longitudinal serrations
S16-131	MAYO-ROBSON Forceps 30cm, straight, with longitudinal serrations
S16-132	MAYO-ROBSON Forceps 25cm, curved, with longitudinal serrations
S16-133	MAYO-ROBSON Forceps 30cm, curved, with longitudinal serrations

S7-1200
S7-1201

S7-1202

S7-1203

S7-1204

S7-1205

S7-1206

S7-1301

S7-1302

S7-1303

PLACENTA Forceps w/o ratchet 25.4cm	
S7-1200	2.0mm
S7-1201	2.2mm
S7-1202	4.5mm
S7-1203	6.0mm
S7-1204	9.0mm
S7-1205	12mm
S7-1206	15mm

HIRST Placenta Forceps	
S7-1301	22cm, 5mm x 33mm
S7-1302	25cm, 6mm x 37mm
S7-1303	28cm, 7mm x 40mm

S7-600 to S7-602

S7-604

S7-610

S7-614

S7-616

S7-632

S7-600	FOERSTER SPONGE FORCEPS 9½" (24.1cm), straight, serrated jaws
S7-602	FOERSTER SPONGE FORCEPS 9½" (24.1cm), straight, smooth jaws
S7-604	BALLENGER(FOERSTER) SPONGE FORCEPS 7" (17.8cm), straight, serrated jaws
S7-610	FOERSTER SPONGE FORCEPS 9½" (24.1cm), curved, serrated jaws
S7-614	BALLENGER(FOERSTER) SPONGE FORCEPS 7" (17.8cm), curved, serrated loop jaws
S7-616	BALLENGER(FOERSTER) SPONGE FORCEPS 7" (17.8cm), curved, smooth jaws
S7-632	FLETCHER SPONGE FORCEPS 9½" (24.1cm), curved, serrated jaws

S17-1100

S17-1150

S18-946

S18-951
S18-952

S18-953

S17-1100	RHOTON Micro Suture Forceps 7" (17.8cm), straight, with 0.7mm tying platform
S17-1150	RHOTON Micro Forceps 7" (17.8cm), straight, 0.3mm tips
S18-946	HARMS Suturing Forceps 4⅛" (10.5cm), straight, with 11mm wide handles, tying platform, 0.6mm wide at tip
S18-951	CASTROVIEJO Suturing Forceps 4" (10.2cm), 1 x 2 teeth 0.3mm, with tying platform
S18-952	CASTROVIEJO Suturing Forceps 4" (10.2cm), 1 x 2 teeth 0.6mm, with tying platform
S18-953	CASTROVIEJO Micro Suturing Forceps 4" (10.2cm), with 11mm wide handles, 1 x 2 teeth 0.12mm, with tying platform

S7-504
S7-505
S7-506

S16-230
S16-232

S16-234

S25-761

S16-102

S7-504	BACKHAUS Towel Clamp 3½" (8.9cm)
S7-505	BACKHAUS Towel Clamp (11cm)
S7-506	BACKHAUS Towel Clamp 5¼" (13.3cm)
S25-761	LOVELACE intestinal Clamp 20cm
S16-102	Baby ALLEN Clamp 16.5cm, delicate, longitudinal serrations with 1 x 2 teeth
S16-230	PAYR Pylorus Clamps 20.3cm
S16-232	PAYR Pylorus Clamps 27.9cm
S16-234	PAYR Pylorus Clamps 33cm

S7-280

S7-290

S24-702

S24-704

S24-752

S24-754

S7-280	JOHNS HOPKINS Bulldog Clamps 1½" (3.8cm), straight
S7-290	JOHNS HOPKINS Bulldog Clamps 2" (5cm), curved
S24-702	GLOVER Bulldog Clamps straight, 8cm, 2.5cm jaw
S24-752	GLOVER Bulldog Clamps curved, 8cm, 2.5cm jaw
S24-704	GLOVER Bulldog Clamps straight, 9cm, 4cm jaw
S24-754	GLOVER Bulldog Clamps curved, 9cm, 4cm jaw

S97-591

S29-850

S29-805

S97-591	Tube Occluding Clamp 19.1cm, straight, serrated jaws, with guard
S29-850	No Scalpel Vasectomy Hemostat 5½" (14cm), smooth sharp point, curved, gold finger rings
S29-805	No Scalpel Vasectomy Ring Clamp 5½" (14cm), gold finger rings

S8-6
S8-7

S8-8

S8-14

S8-15
S8-16
S8-17

S8-6	WEBSTER Needle Holder 5" (12.7cm), delicate, smooth jaws, standard pattern
S8-7	WEBSTER Needle Holder 4¾" (12.1cm), extra delicate, smooth jaws
S8-8	HALSEY Needle Holder 5" (12.7cm), smooth jaws

OLSEN-HEGAR NEEDLE HOLDER combined with Suture Scissors

S8-14	4¾" (12.1cm), extra delicate pattern, serrated jaws
S8-15	5½" (14cm), serrated jaws
S8-16	6½" (16.5cm), serrated jaws
S8-17	7¼" (18.4cm), serrated jaws

Needle Holder – Mayo-Hegar, Crile-Wood, Castroviejo

SPICA®

S8-42
S8-43
S8-44
S8-46
S8-48

S8-50
S8-51
S8-52

S8-130

S18-1828
S18-1832

MAYO-HEGAR Needle Holder

S8-42	12.7cm
S8-43	14cm
S8-44	15.2cm
S8-46	17.8cm
S8-48	20.3cm
S8-130	(MASSON) 26.7cm

CASTROVIEJO Needle Holder

S18-1828	14cm straight, with lock
S18-1832	14cm curved, with lock

CRILE-WOOD Needle Holder

S8-50	CRILE-WOOD Needle Holder 15.2cm
S8-51	CRILE-WOOD Needle Holder 17.8cm
S8-52	CRILE-WOOD Needle Holder 20.3cm

Needle Holder – TC Webster, Halsey,Olsen-Hegar

SPICA®

S8-7TC

S8-706TC

S8-8TC

S8-15TC
S8-16TC
S8-17TC

S8-7TC	WEBSTER Needle Holder 4¾" (12.1cm), smooth jaws, extra delicate
S8-706TC	WEBSTER Quick-Release Needle Holder 5" (12.7cm), smooth jaws
S8-8TC	HALSEY Needle Holder 5" (12.7cm), smooth jaws, standard pattern

OLSEN-HEGAR NEEDLE HOLDER combined with Suture Scissors

S8-15TC	5½" (14cm) serrated jaws 2600 teeth p. sq. inch
S8-16TC	6½" (16.5cm) serrated jaws 2600 teeth p. sq. inch
S8-17TC	7½" (19.1cm) serrated jaws 2600 teeth p. sq. inch

Needle Holder – TC Mayo-Hegar, Crile-Wood

SPICA®

S8-42TC S8-44TC S8-46TC S8-48TC

S8-50TC S8-51TC S8-52TC

MAYO-HEGAR Needle Holder

S8-42TC	5" (12.7cm), serrated jaws 2600 teeth p. sq. inch
S8-44TC	6" (15.2cm), serrated jaws 2600 teeth p. sq. inch
S8-46TC	7" (17.8cm), serrated jaws 2600 teeth p. sq. inch
S8-48TC	8" (20.3cm), serrated jaws 2600 teeth p. sq. inch

CRILE-WOOD Needle Holder

S8-50TC	6" (15.2cm), serrated jaws 4000 teeth p. sq. inch
S8-51TC	(DeBAKEY) 7" (17.8cm), serrated jaws 4000 teeth p. sq. inch
S8-52TC	(DeBAKEY) 8" (20.3cm), serrated jaws 2600 teeth p. sq. inch

S18-1828TC

S18-1832TC

S18-1828A-TC

S18-1832A-TC

CASTROVIEJO Needle Holder

S18-1828TC	5½" (14cm), straight, with lock, smooth smooth Carb-N-Sert jaws
S18-1832TC	5½" (14cm), curved, with lock, smooth Carb-N-Sert jaws
S18-1828A-TC	5½" (14cm), straight, with lock, serrated Carb-N-Sert jaws 16000 teeth p. sq. inch
S18-1832A-TC	5½" (14cm), curved, with lock, serrated Carb-N-Sert jaws 16000 teeth p. sq. inch

S11-130 to S11-140

Ribbon Retractor

S11-134	3.2cm x 33cm, malleable
S11-136	3.8cm x 33cm, malleable
S11-140	5.1cm x 33cm, malleable

Pediatric Ribbon Retractor

S11-143	1.2cm x 20.3cm, malleable
S11-144	1.6cm x 20.3cm, malleable
S11-146	2.5cm x 20.3cm, malleable

S11-530

S11-532

S11-534

S11-538

S11-540

S11-542

VOLKMAN RETRACTORS 8" (20.3cm), Ring Handle

S11-530	2 prongs, sharp
S11-532	3 prongs, sharp
S11-534	4 prongs, sharp
S11-538	2 prongs, blunt
S11-540	3 prongs, blunt
S11-542	4 prongs, blunt

S11-73

S11-74 S11-76

S11-102

S21-148

S21-165

S11-73	RAGNELL Retractor 6" (15.2cm), double end 3 x 8mm and 5 x 15mm blades, delicate
S11-74	SENN Retractor 6 ⅜" (16.2cm), sharp, double end
S11-76	SENN Retractor 6 ⅜" (16.2cm), blunt, double end
S11-102	CUSHING Vein and Nerve Retractor 9" (22.9cm), blade 11 x 13mm
S21-148	FOMON Retractor 6½" (16.5cm), two ball end prongs 11mm wide
S21-165	COTTLE Knife Guide and Retractor 8" (20.3cm), double end, ball tip prongs 10mm wide, and 5mm wide slotted hook

S21-188

S11-346

S11-350

S11-30

S11-34

S21-188	AUFRICHT Retractor-Speculum 16.5cm, solid blade 45mm long
S11-346	MAYO Abdominal Retractor 10" (25.4cm), blade 2¾" (7cm) wide
S11-350	ISRAEL Retractor 9" (22.9cm), blunt, 5 prongs 1½" (3.8cm) x 1 ⅝" (4.1cm)

Flexible Neck Rake Retractor 6" (15.2 cm)

S11-30	1 sharp prongs
S11-34	3 sharp prongs

S18-110
S18-112
S18-114
S18-116

S18-120

Desmarres Lid Retractor 14cm

S18-110	size 1, 11mm wide blade
S18-112	size 2, 13mm wide blade
S18-114	size 3, 15mm wide blade
S18-116	size 4, 17mm wide blade

JAEGER Lid Plate

S18-120	JAEGER Lid Plate Stainless Steel 10.2cm, blades 20mm and 23mm

S30-300
S30-305
S30-306

S11-240

S11-242

S11-244

S11-590-1 S11-590-2 S11-590-3

JACKSON Vaginal Retractor 7" (17.8cm)

S30-300	Blade 1½" (3.8cm) x 3" (7.6cm)
S30-305	Blade 1½" (3.8cm) x 3½" (8.9cm)
S30-310	Blade 1½" (3.8cm) x 4" (10.2cm)

MEYERDING Retractor 24.1cm

S11-240	large blade, 90 x 50mm
S11-242	medium blade, 75 x 25mm
S11-244	small blade, 50 x 16mm

HIBBS Retractor

S11-590-1	24.5cm, blade 2.5cm x 1.3cm deep
S11-590-2	24cm, blade 5.2cm x 2.5cm deep
S11-590-3	23.5cm, blade 7.8cm x 2.7cm deep

S27-213

S27-215
S27-216

S11-580
S11-582

S27-213	MINI-HOHMANN Retractor 6¼" (15.9cm), blade 6mm wide
S27-215	HOHMANN Retractor 9¼" (23.5cm), blade 10mm wide
S27-216	HOHMANN Retractor 9¼" (23.5cm), blade 18mm wide
S11-580	BENNETT Tibia Retractor 9½" (24.1cm), small blade 4.4cm wide
S11-582	BENNETT Tibia Retractor 9½" (24.1cm), large blade 6.4cm wide

S21-180 S26-1352 S26-1354

S25-272
S25-273
S25-274

LOVE Nerve Root Retractor 8½" (21.6cm)

S21-180	straight, 7mm blade
S26-1352	Root Retractor 8½" (21.6cm), angled 45º, 7mm blade
S26-1354	Root Retractor 8½," (21.6cm), angled 90º, 7mm blade

SAUERBRUCH Retractor 9" (22.9cm)

S25-272	blade 2.2 X 5.7cm
S25-273	blade 2.0 x 6.5cm
S25-274	blade 1.9 x 7.3cm

S11-122

S11-260A
S11-260B

S11-266 to S11-268

S26-91
S26-92

S11-122	U.S. ARMY Retractor 8½" (21.6cm), double end
S11-260A	RICHARDSON-EASTMAN Retractor, double end, 11" (27.9cm), large size
S11-260B	RICHARDSON-EASTMAN Retractor, double end,10" (25.4cm), small size
S11-266	KELLY Retractor 9¾" (24.8cm), Loop Handle, 2" (5.1cm) x 1½" (3.8cm)
S11-267	KELLY Retractor 9¾" (24.8cm), Loop Handle, 2½" (6.4cm) x 2" (5.1cm)
S11-268	KELLY Retractor 9¾" (24.8cm), Loop Handle, 3" (7.6cm) x 2½" (6.4cm)
S26-91	TAYLOR Spinal Retractor 18.4cm, 3.2 x 7.6cm
S26-92	TAYLOR Spinal Retractor 20.3cm, 3.2 x 10.2cm

S11-198-1~6

S11-198

SOFILED Retractors

S11-198	Double-ended complete set of 6 Blades include holding
S11-198-1	Double-ended, 18cm, fig. 1, 13 x 45mm and 13 x 35mm
S11-198-2	Double-ended, 19cm, fig. 2, 13 x 55mm and 13 x 45mm
S11-198-3	Double-ended, 20cm, fig. 3, 16 x 70mm and 16 x 55mm
S11-198-4	Double-ended, 21cm, fig. 4, 16 x 85mm and 16 x 70mm
S11-198-5	Double-ended, 22cm, fig. 5, 19 x 100mm and 19 x 80mm
S11-198-6	Double-ended, 23cm, fig. 6, 19 x 110mm and 19 x 90mm

S11-218

S11-219

S11-220

S11-221

S11-222

S11-223

S11-224

S11-225

S11-226

S11-227

S11-228

S11-229

DEAVER Retractors

S11-218	18cm x 19mm	S11-219	21.5cm x 22mm
S11-220	23cm x 25mm	S11-221	30cm x 13mm
S11-222	30cm x 25mm	S11-223	30cm x 30mm
S11-224	30cm x 35mm	S11-225	33cm x 25mm
S11-226	36cm x 25mm	S11-227	30cm x 38mm
S11-228	30cm x 50mm	S11-229	30cm x 70mm

S11-10

S11-365
S11-366

S11-610
S11-616

S11-608
S11-614

S11-10	DAVIS Retractor 4½" (11.4cm) 3 x 3 blunt prongs
S11-365	Pediatric GELPI Retractor 5½" (14cm), with grip lock
S11-366	GELPI Retractor 6¾" (17.1cm) with grip lock

WEITLANER Retractor

S11-608	5½" (14cm), 3 x 4 teeth, sharp
S11-610	5½" (14cm), 3 x 4 teeth, blunt
S11-614	6½" (16.5cm), 3 x 4 teeth, sharp
S11-616	6½" (16.5cm), 3 x 4 teeth, blunt

S11-650

S11-684

S26-1973

S11-650	MEYERDING Self-Retaining Retractor 18cm, 25 x 60mm
S11-684	BECKMAN Retractor New type 31.8cm, hinged, sharp 4 x 4 teeth 1.9cm x 2.5cm
S26-1973	BECKMAN-EATON Laminectomy Retractor 32.4cm, hinged, sharp 7 x 7 teeth 4.4cm wide x 5.1cm deep

S11-470

S28-60

S11-471

S11-470	FRANZ Abdominal retractor, with 4 interchangeable blades, folding for easy storage	
	Blade No.1 and No.2	5.1cm x 4.4cm deep
	Blade No.3 and No.4	6.4cm x 3.2cm deep
S11-471	CHARNLEY Retractor	
	32.5 x 23cm frame, 6cm 3 prongs appendix, 23.5cm blade with 10 holes	
S28-60	PARK Anal Retractor, blade 2.5 x 6cm	

S11-413

S11-414

S11-424

S11-413	COLLIN Abdominal Retractor 22.9cm, with 2 swivel blades, 6 x 4cm deep and solid center blade 6cm x 4cm deep
S11-414	COLLIN Abdominal Retractor 22.9cm, with 2 swivel blades, 7.8cm x 4cm deep
S11-415	BALFOUR Abdominal Retractor, with solid side blade 3 x 7cm deep and solid center blade 7.6cm x 4.4deep, 17.8cm spread

S11-6

S11-14

S11-672

S25-98

S11-6	ALLPORT Mastoid Retractor 10.2cm, spread 6.4cm, 4 x 4 sharp prongs
S11-14	Cross Action Retractor 10.2cm, sharp prongs
S11-672	BADGLEY Retractor, 4 x 4 blunt teeth, 16.5cm spread, blades 51mm x 44mm wide
S25-98	FINOCHIETTO-DeBAKEY Infant Rib Spreader, blades 19mm deep x 21mm wide, 85mm spread, light construction

S11-500 S11-502 S21-92 S21-152 S26-1084 S26-1092 S18-424

S11-500	VOLKMANN Hook 21.6cm, sharp, hollow handle
S11-502	VOLKMANN Hook 21.6cm, sharp, ring handle
S21-92	COTTLE Skin Hook 14cm, small, deep curved
S21-152	LAHAY Retractor Delicate 12.7cm, sharp double prongs 2mm wide
S26-1084	FRAZIER Dura Hook 12.7cm, sharp point
S26-1092	ADSON Dura Hook 20.3cm, sharp 5mm
S18-424	O’CONNOR Hook 12.1cm, sharp

S30-50

S30-110

S30-187

S30-75
S30-80
S30-85

S30-50	PEDERSON VAGINAL SPECULA, NARROW BLADES, Small Size,1.3cm x 7.6cm

CUSCO VAGINAL SPECULA

S30-75	Small, 3.2cm x 8.9cm
S30-80	Medium, 3.5cm x 10.2cm
S30-85	Large, 3.5cm x 11.4cm
S30-110	SAKURAIS vaginal speculum
S30-187	AUVARD WEIGHTED VAGINAL SPECULA 9" (22.9cm), 2.5lbs. (1136 g), straight blade 1½" (3.8cm) x 3¼(8.3cm), slightly angled (75°)

S30-210
S30-215
S30-220

S30-395
S30-406
S30-415

SIMS Vaginal Speculum, Double End

S30-210	Small Size 1" (2.5cm) x 2½" (6.4cm) and 1¼" (3.2cm) x 3" (7.6cm)
S30-215	Medium Size 1⅛" (2.8cm) x 3" (7.6cm) and 1¼" (3.2cm) x 3½" (8.9cm)
S30-220	Large Size 1⅜" (3.5cm) x 3½" (8.9cm) and 1½" (3.8cm) x 4" (10.2cm)

DOYEN Vaginal Retractor 9" (22.9cm)

S30-395	Blade 4.4cm x 6.4cm
S30-406	Blade 5.4cm x 7.6cm
S30-415	Blade 5.7cm x 8.9cm

S18-2

S18-22

S18-35
S18-36
S18-37

S18-50

S18-64

S18-66

S18-2	LANCASTER Eye Speculum 3¼" (8.3cm), blades 15 x 5mm
S18-22	WILLIAMS Eye Speculum 3¼" (8.3cm), large blades 15 x 5mm

BARRAQUERUE Eye Speculum 1¾" (4.4cm)

S18-35	small blades 10mm wide
S18-36	medium blades 13mm wide
S18-37	large blades 15mm wide
S18-50	MURDOCK Eye Speculum 2¼" (5.7cm), blades 15mm wide, chrome
S18-64	COOK Eye Speculum 1⅞" (4.7cm) child size, 11mm blades
S18-66	MELLINGER Eye Speculum 2¾" (7cm), solid blades 15mm wide

S28-3

S28-4

S28-5

S28-20, S28-22

S28-31

S28-3	CZERNEY Rectal Specula 22cm, 3 x 7.6cm
S28-4	BODENHAMMER Rectal Speculum 15.2cm, long with set screw blades(8.9cm)long x (1.9cm)wide at distal end
S28-5	MATHIEU Rectal Specula 19.5cm, blades 3 x 6cm
S28-20	HIRSCHMAN Anoscope, Small size 5.7cm long x 1.4cm I.D
S28-22	HIRSCHMAN Anoscope, Medium size 6.7cm long x 1.7cm I.D
S28-31	RICORD Rectal Specula blades 2.5 x 8cm

S19-48

S20-12

S20-13
S20-14
S20-15

S19-48	HARTMAN EAR SPECULA set of 4 sizes 4,5,6 and 7mm
S20-12	TIECK (HALLE) Infant Nasal Speculum 14cm

HARTMANN Nasal Speculum

S20-13	29mm infant
S20-14	33mm child
S20-15	37mm adult

S20-4
S20-3
S20-2

S20-24

VIENNA Nasal speculum 14.6cm

S20-2	standard pattern large size
S20-3	standard pattern medium size
S20-4	standard pattern small size

BECKMAN Nasal speculum 15.2cm

S20-24	angled on size

S33-200

S33-201
S33-202

S33-203

S33-204
S33-206

SCHAMBERG Comedone Extractor 3¾" (9.5cm)

S33-200	with square loop ends
S33-201	standard pattern with crimped small loop
S33-202	standard pattern with extra fine loops, small loop crimped
S33-203	Comedone Extractor 4" (10.2cm), double end, flat and wire end expressors
S33-204	SAALFIELD Comedone Extractor 5¾" (14.6cm), with acne lancet, professional pattern
S33-206	SAALFIELD Comedone Extractor 4¼" (10.8cm), with acne lancet, professional pattern

S33-210

S33-214

S33-215

S33-210	UNNA Comedone Extractor 5¾" (14.6cm), spoon ends
S33-214	Comedone Extractor 6" (15.2cm), one fenestrated cup and one delicate curved lancet with protective cap
S33-215	GREG Comedone Extractor 5" (12.7cm), one fenestrated cup and chuck with interchangeable No.65 lancet blade, protected by cap

S30-1500

S30-1501

S30-1502

S30-1503

S30-1504

S30-1505

S30-1500 Uterine Suction Handle,13cm

Uterine Suction tube

S30-1501 20cm, 5mm

S30-1502 20cm, 6mm

S30-1503 20cm, 7mm

S30-1504 20cm, 8mm

S30-1505 20cm, 9mm

Suction Tube – Yankauer, Pool, Frazier, Unit

SPICA®

S2-104

S10-310

S10-312

S19-573
S19-574
S19-575
S19-576
S19-578
S19-579

S28-375-1
S28-375-2
S28-375-3
S28-375-4

S2-104	YANKAUER Suction Tube 29.8cm, with removable tip and tubing connection, chrome
S10-310	POOLE Suction Tube, curved 22cm
S10-312	POOLE Suction Tube, straight 22cm

Frazier Ferguson Suction Tube with finger cut-off, angled, working length12.7cm

S19-573	8 French (2.6mm)
S19-574	9 French (3mm)
S19-575	10 French (3.3mm)
S19-576	11 French (3.6mm)
S19-577	12 French (4mm)
S19-578	14 French (4.6mm)
S19-579	16 French (5.3mm)

Unit Auditive Catheter Atomizing 15cm

S28-375-1	#1
S28-375-2	#2
S28-375-3	#3
S28-375-4	#4

S33-5 S33-4 S33-3 S33-2

S30-1392

FOX DERMAL CURETTES 5½" (14cm)

S33-2	Round, 6mm dia.
S33-3	Round, 5mm dia.
S33-4	Round, 4mm dia.
S33-5	Round, 3mm dia.

S30-1391 NOVAK Endometrial Suction Biopsy Curette 9¾" (24.8cm), with Luer hub, 2mm dia., extra delicate

SPICA®

J.O.M.W

S30-1205A-00

S30-1205A-0

S30-1205A-1

S30-1205A-2

S30-1205A-3

S30-1205A-4

SIMS

S30-1205-00

S30-1205-0

S30-1205-1

S30-1205-2

S30-1205-3

S30-1205-4

J.O.M.W UTERINE CURETTES 28cm		SIMS UTERINE CURETTES 28cm	
S30-1205A-00	Malleable Shanks, size 00(4.5mm)	S30-1205-00	Sharp Blades on Malleable Shanks, size 00(4.5mm)
S30-1205A-0	Malleable Shanks, size 0 (6mm)	S30-1205-0	Sharp Blades on Malleable Shanks, size 0 (6mm)
S30-1205A-1	Malleable Shanks, size 1 (7.5mm)	S30-1205-1	Sharp Blades on Malleable Shanks, size 1 (7.5mm)
S30-1205A-2	Malleable Shanks, size 2 (9mm)	S30-1205-2	Sharp Blades on Malleable Shanks, size 2 (9mm)
S30-1205A-3	Malleable Shanks, size 3 (12mm)	S30-1205-3	Sharp Blades on Malleable Shanks, size 3 (12mm)
S30-1205A-4	Malleable Shanks, size 4 (15mm)	S30-1205-4	Sharp Blades on Malleable Shanks, size 4 (15mm)

S19-706

S19-708

S19-710

S19-712

S19-714

S19-716

S19-718

S19-720

S26-1629

S26-1630

S26-1632

S26-1634

S26-1636

SPRATI (BRUN) MASTOID CURETIES 6½" (16.5cm), Oval Cups

S19-706	size 2/0	S19-708	size 0	S19-710	size 1
S19-712	size 2	S19-714	size 3	S19-716	size 4
S19-718	size 5	S19-720	size 6		

HIBBS SPRATT SPINAL FUSION CURETTES 22.9cm, Oval Cup

S26-1629	size 0	S26-1630	size 1	S26-1632	size 2
S26-1634	size 3	S26-1636	size 4		

S30-550
S30-555

S30-560
S30-561

HEGAR UTERINE DILATORS 19.1cm, DOUBLE END

S30-550 Set of 9 Dilators, sizes 1-2mm to 17-18mm

S30-555-12	1-2mm	S30-555-34	3-4mm	S30-555-56	5-6mm
S30-555-78	7-8mm	S30-555-910	9-10mm	S30-555-1112	11-12mm
S30-555-1314	13-14mm	S30-555-1516	15-16mm	S30-555-1718	17-18mm

PRATT UTERINE DILATORS 29.2cm, DOUBLE END

S30-561 Set of 8 Dilators, sizes 13-15 Fr. (4.3-5mm) to 41-43 Fr. (13.5-14.2mm)

S30-560-1315	13-15 Fr. (4.3-4.6mm)	S30-560-2931	29-31Fr. (9.6-10.2mm)
S30-560-1719	17-19 Fr. (5.6-6.3mm)	S30-560-3335	33-35 Fr. (10.9-11.6mm)
S30-560-2123	21-23 Fr. (7-7.6mm)	S30-560-3739	37-39 Fr. (12.2-12.9mm)
S30-560-2527	25-27 Fr. (8.3-9mm)	S30-560-4143	41-43 Fr. (13.5-14.2mm)

S30-557-1 to S30-557-20

S30-557 Set of 13 Dilators, size #1 ~ #13

S30-558 Set of 7 Dilators, size #14 ~ #20

S23-1430

HEGAR UTERINE DILATORS 19.1cm, SINGLE END WITH HOLE

S30-557	Set of 13 Dilators, sizes #1 to #13
S30-558	Set of 7 Dilators, sizes #14 to #20
S30-557-1 to S30-557-20	Dilator Size #1~#20
S23-1430	LaBORDE Trachea Dilator 5½" (14cm), three bladed

S14-8-3 to S14-8-11

S14-8 BAKES Common Duct Dilator Set 22.2cm ; fitted plastic case containing 9 dilators sizes 3 to 11 mm, malleable shafts

S14-8-3	Dilators size 3x19mm	S14-8-4	Dilators size 4x20mm
S14-8-5	Dilators size 5x21mm	S14-8-6	Dilators size 6x25mm
S14-8-7	Dilators size 7x26mm	S14-8-8	Dilators size 8x27mm
S14-8-9	Dilators size 9x30mm	S14-8-10	Dilators size 10x31mm
S14-8-11	Dilators size 11x32mm		

S18-1967
S18-1968

S21-64

S25-28

S26-1410

S26-1412

S18-1967	FREER Septum Elevator 19.7cm, double end, sharp and blunt blades 5mm wide
S18-1968	FREER Septum Elevator 17.8cm, double end, sharp and blunt blades 5mm wide
S21-64	JOSEPH Periosteal Elevator 16cm, blade 6mm wide, strong curved
S25-28	SEDILLOT Periosteal Elevator 19.1cm, blade 17mm wide
S26-1410	LANGENBECK Periosteal Elevator 7½" (19.1cm), narrow model, 7mm wide blunt blade
S26-1412	LANGENBECK Periosteal Elevator 7½" (19.1cm), wide model, 17mm wide sharp blade

S27-2001

S27-2020

S27-2001	Cobb-Type Spinal Elevators round knurled handle,11" (280mm), 1¼" (32mm) blade
S27-2020	Cobb-Type Spinal Elevators round knurled handle,11" (280mm), ¾" (19mm) blade

S9-128

S26-250

S27-110-01
S27-110-02

S9-128	Double Action Parallel Pliers and Wire Cutter (11.4cm), nickel plated
S26-250	DEMEL Bone Wire Forceps 28cm
S27-110-01	Bone Wire Guide Fig.1 22.2cm, U.S pattern
S27-110-02	Bone Wire Guide Fig.2 28cm, U.S pattern

S27-159TC

S27-161TC

S27-163TC

S27-159TC	C-N-S Pin and Wire Cutler 17.8cm, double action, CARB-N-SERT cutting blades, cuts up to 2mm soft wire or 1.6mm hard wire
S27-161TC	Double Action Pin Cutter 38.1cm, heavy duty, with CARB·N-SERT cutting blades, will cut up to 4.8mm diameter, stainless
S27-163TC	C-N-S Front and Side Pin and Wire Cutter 17.8cm, Double Action Flush Cutting CARB-N-SERT Blades cuts up to 2mm soft wire or 1.6mm hard wire

SPICA®

S27-510
to
S27-522

S27-530
to
S27-542

S27-438
to
S27-446

S27-438C
to
S27-446C

SMITH-PETERSEN OSTEOTOMES 20.3cm

straight	size (mm)	curved
S27-510	6.4	S27-530
S27-512	9.5	S27-532
S27-514	13	S27-534
S27-516	16	S27-536
S27-518	19	S27-538
S27-520	25	S27-540
S27-522	32	S27-542

HIBBS OSTEOTOMES 22.9cm

straight	size (mm)	curved
S27-438	6.4	S27-438C
S27-440	9.5	S27-440C
S27-442	13	S27-442C
S27-446	19	S27-446C

S21-228
S21-225

S21-229
S21-226

S27-270
S27-272

S21-213

S21-214

S21-215

SILVER Osteotome 7" (17.8cm) single guard

S21-228	right
S21-229	left

RISTOW Osteotome 7" (17.8cm)

S21-225	right
S21-226	left

SWISS Pattern Osteotome 5" (12.7cm)

S27-270	6mm wide
S27-272	8mm wide

CINELLI Osteotome 6½" (16.5cm) straight, with double guards

S21-213	6mm cut
S21-214	8mm cut
S21-215	10mm cut

SPICA®

S27-549
to
S27-558

S27-458
S27-460
S27-462
S27-466

S27-460C
S27-462C
S27-466C

SMITH-PETERSEN GOUGES 20.3cm

straight	width (mm)
S27-549	6.4
S27-550	9.5
S27-551	13
S27-553	16
S27-554	19
S27-556	25
S27-558	32

HIBBS GOUGES 22.9cm

straight	size (mm)	curved
S27-458	6.4	-
S27-460	9.5	S27-460C
S27-462	13	S27-462C
S27-466	19	S27-466C

SPICA®

S27-418
S27-420
S27-422
S27-424

S19-752
S19-758

S27-620-1
S27-620-2
S27-620-3
S27-620-4
S27-620-5
S27-620-6

HIBBS CHISELS 22.9cm

straight	size (mm)
S27-418	6.4mm
S27-420	9.5mm
S27-422	13mm
S27-424	16mm

ALEXANDER CHISEL 16cm

S19-752	6mm wide
S19-758	12mm wide

CASPAR impactor with handle

S27-620-1	3mm
S27-620-2	5mm
S27-620-3	8mm
S27-620-4	12mm
S27-620-5	14mm
S27-620-6	16mm

S21-282

S21-284

S21-338

S21-342

S21-282	JOSEPH Nasal Saw 19.1cm, bayonet, right
S21-284	JOSEPH Nasal Saw 19.1cm, bayonet, left
S21-338	COTTLE Rasp 20.3cm, backward cutting
S21-342	MALTZ Rasp 17.8cm, backward cutting

S27-703

S27-1560

S27-3094

S27-3100

S27-703	Bone File 9¾" (24.8cm), bayonet shank, half-round blade 3½" (8.9cm) x½" (1.3cm)
S27-1560	SATTERLEE Bone Saw 30.5cm, light metal handle with stainless 22.9cm blade
S27-3094	HENNIG Cast Spreader 28cm, 5.1cm blades wide
S27-3100	3-Prong Cast Spreader 22.9cm, with spring action for one-hand operation

S19-011
S19-011S
S19-012

S19-013
S19-014

S19-466
S19-467

STEINMANN Pin Holder

S19-011	medium
S19-011S	small
S19-012	large

STYLET

S19-466	small, 33cm
S19-467	large, 44cm

K-wire tractor

S19-013	large
S19-014	small

S26-150

S26-160C

S26-160SA
S26-160S
S26-160H

S19-139A
S19-139BS
S19-140

S27-30
S27-32
S27-34

Screw Driver

S26-150	single slot
S26-160C	cross slot C type
S26-160SA	hexagon 2.5mm
S26-160S	hexagon 3.5mm
S26-160H	hexagon 4.5mm

LOWMAN Bone Clamp

S27-30	1 x 2 prong jaw 1.9cm wide, 12.7cm, calibrated in 3.2mm
S27-32	1 x 2 prong jaw 2.5cm wide, 17.8cm, calibrated in 3.2mm
S27-34	1 x 2 prong jaw 3.2cm wide, 20.3cm, calibrated in 3.2mm

LOWMAN Bone Clamp 1prong

S19-139A	12cm	S19-139BS	18cm	S19-140	20cm

S27-4
S27-4A
S27-4B
S27-4C
S27-4D

S27-3

S27-5

KERN Bone Holding Forceps

S27-4A	w/ratchet 14cm
S27-4B	w/ratchet 17cm
S27-4C	w/ratchet 23cm
S27-4D	w/ratchet 30cm
S27-4E	w/ratchet 33cm

Bone Holding Forceps

S27-3	13cm, long Ratchet
S27-5	20cm, long Ratchet

S95-310.23

S95-310.25

S95-310.28

Ulrich Bone Holding Forceps

S95-310.23	straight, 23cm
S95-310.25	straight, 25cm
S95-310.28	straight, 28cm

S25-390

S25-392

S27-1390
S27-1391
S27-1392

S21-626

S25-390	STILLE-LISTON Bone Cutting Forceps 10¾" (27.3cm), straight
S25-392	STILLE-LISTON Bone Cutting Forceps 10¾" (27.3cm), curved
S27-1390	LISTON Bone Cutting Forceps 14cm
S27-1391	LISTON Bone Cutting Forceps 17cm
S27-1392	LISTON Bone Cutting Forceps 19.1cm
S21-626	RUSKIN BONE CUTTING FORCEPS, standard blades 5½" (14cm), straight

S19-793

S19-791

S27-660
S27-661

S19-793	Mallet 7½" (19.1cm), lightweight 7.5 oz. (213g), stainless head 1" (2.5cm) dia. with 2 replaceable nylon caps
S19-791	Mallet 220g Head Flat Type
S27-660	Mallet 11" (27.9cm), head 16 oz. (454g) solid stainless
S27-661	Mallet 700g Flat Type

S27-663-1
S27-663-2
S27-663-3

S95-335.11

S95-334.71

Mallet 28cm

S27-663-1	head 500g, solid stainless, wood style handle
S27-663-2	head 600g, solid stainless, wood style handle
S27-663-3	head 1,000g, solid stainless, wood style handle
S95-335.11	Hajek Mallet, Stainless steel head with hollow handle weight : approx.140g, head diameter: 27mm
S95-334.71	COTTLE Mallet 19cm, 240g convex / flat, stainless steel head, aluminum handle

S19-808

S19-848

S19-854

S25-456

S25-458

S19-808	BANE Rongeur 7" (17.8cm), curved jaws, 5x15mm bite tapered to 7mm
S19-848	RUSKIN Rongeur 6" (15.2cm) long, straight jaws, 3mm bite
S19-854	RUSKIN Rongeur 7¼" (18.4cm) long, straight jaws, 7mm bite
S25-456	STILLE-LUER Rongeur 22.2cm, curved jaws 9 x 15mm
S25-458	STILLE-LUER Duckbill Rongeur 22.9cm, angled on side jaws 6 x 12mm

S26-330
S26-336
S26-392A

S26-332
S26-338
S26-393A

S26-334
S26-339A
S26-388

SPURLING-KERRISON CERVICAL Rongeur

S26-330	6" (15.2cm) shaft, 3mm up-bite
S26-336	8" (20.3cm) shaft, 3mm up-bite
S26-332	6" (15.2cm) shaft, 3mm down-bite
S26-338	8" (20.3cm) shaft, 3mm down-bite
S26-334	6" (15.2cm) shaft, 3mm 40˚ forward angle
S26-339A	8" (20.3cm) shaft, 3mm 40˚ forward angle

KERRISON CERVICAL Rongeur

S26-392A	7" (17.8cm) shaft, improved handle, 2mm up-bite
S26-393A	7" (17.8cm) shaft, improved handle, 2mm down
S26-388	7" (17.8cm) shaft, improved handle, 40˚ forward angle

S30-1442

S30-1443

S30-1442	TISCHLER Cervical Biopsy Punch Forceps 9¾" (24.8cm) shaft, 6 x 3 x 1.5mm bite
S30-1443	BURKE (Modified Baby TISCHLER) Cervical Biopsy Punch Forceps 7⅝" (19.7cm) shaft, 4.5 x 3 x 1.5mm bite

S26-394
S26-397
S26-402
S26-435

S26-395
S26-398

S26-396
S26-399

CUSHING Pituitary Rongeur

S26-394	12.7cm, straight, 2mm x 10mm cup jaws
S26-395	12.7cm, curved-up, 2mm x 10mm cup jaws
S26-396	12.7cm, curved-down, 2mm x 10mm cup jaws
S26-397	17.8cm, straight, 2mm x 10mm cup jaws
S26-398	17.8cm, curved-up, 2mm x 10mm cup jaws
S26-399	17.8cm, curved-down, 2mm x 10mm cup jaws
S26-402	LOVE-GRUENWALD Pituitary Rongeur 17.8cm, straight, 3mm x 10mm cup jaws
S26-435	SPURLING Pituitary Rongeur 17.8cm, straight, 4mm x 10mm cup jaws

S26-590

S21-657
to
S21-659

S21-660

S26-590	RANEY Scalp Clip Applying Forceps 15.9cm

WALSHAM Septum Straightener 23.5cm

S21-657	Universal, with two convex blades
S21-658	right, with two convex and one concave blade
S21-659	left, with two convex and one concave blade

S21-660	ASH Septum Straighter 22.9cm, angled blades flat inside

S28-150

S28-152

S28-150	McGIVNEY Hemorrhoidal Ligator, 17.8cm working length
S28-152	McGIVNEY Hemorrhoid Grasping Forceps 19.1cm angled shanks

S2-164

S27-100 to S27-106

S2-183

S2-164	JENNINGS Mouth Gag, infant size, 9.5cm wide
S2-183	Tongue Depressure DINGMAN SET (Main body and 3 bldes)
	14cm x 5½" (24 x 52mm), 14cm x 5½" (28 x 55mm), 14cm x 5½" (30 x 68mm)

Circumcision Clamp

S27-100	9mm	S27-103-1	21mm
S27-101	11mm	S27-103-2	25mm
S27-102	13mm	S27-104	28mm
S27-103	15mm	S27-105	30mm
S27-103-17	17mm	S27-106	32mm
S27-103-19	19mm		

S18-650

S26-130

S27-180

S18-650	CASTROVIEGIO Caliper 8.3cm, a combination measuring and marking caliper, graduated 0-20mm
S26-130	GIGLI Saw (30.5cm), Standard twisted wire type
S27-180	BUNNEL Hand Drill, Lightweight, chrome plated with (4mm) capacity stainless Jacobs chuck. Cannulated for use with Kirschner wires and thin drills. Chuck key stores in handle.

S10-26-SS
S10-28-SS

S18-740
S18-742
S18-744
S18-746
S18-748

PROBES WITH EYE

S10-26-SS	Malleable 14cm
S10-28-SS	Malleable 15.2cm

Bowman Lacrimal Probes (12.7cm), sterling

S18-740	size 0000-000 (0.4/0.6mm)
S18-742	size 00-0 (0.7/0.8mm)
S18-744	size 1-2 (0.9/1.1mm)
S18-746	size 3-4 (1.3/1.4mm)
S18-748	size 5-6 (1.5/1.6mm)

S30-1508

S30-650

S23-1

S30-1508 Uterine Probe, 30.5cm

S30-650 SIMS Uterine Sound 13" (33cm), graduated in cm, malleable, silver plated

LARYNGEAL MIRRORS, Boilable, Thin model Complete with octagon threaded handle

	Size No.	Diameter			
S23-1-000	000	10mm	S23-10-3	3	20mm
S23-2-00	00	12mm	S23-12-4	4	22mm
S23-4-0	0	14mm	S23-14-5	5	24mm
S23-6-1	1	16mm	S23-16-6	6	26mm
S23-8-2	2	18mm	S23-18-7	7	28mm

Hand Brush, Instrument Brush

SPICA®

S3-1100

S3-1101

S-T003

S-T004

S-D01

S-T104

S-T103

S3-1100	Autoclavable Hand Brush, double sides
S3-1101	Autoclavable Hand Brush, one side
S-T003	Instrument Nylon brush
S-T004	Instrument Stainless steel brush
S-D01	Double ended nylon brush
S-T103	Nylon brush with small horn
S-T104	Stainless steel brush with small horn

S3-901 to S3-909

S3-915, S3-916, S3-917

S3-918, S3-920

S3-951 to S3-954

SPONGE BOWL

S3-901	40×25mm, #1
S3-902	55×28mm, #2
S3-903	65×35mm, #3
S3-904	80×40mm, #4
S3-905	90×45mm, #5
S3-906	105×50mm, #6
S3-907	125×55mm, #7
S3-908	150×60mm, #8
S3-909	165×70mm, #9

FORCEP JAR

S3-915	50×130mm
S3-916	55×160mm
S3-917	55×190mm

DRESSING JAR WITH COVER

S3-951	75×60mm
S3-952	90×90mm
S3-953	120×115mm
S3-954	150×150mm

EMESIS BASIN

S3-918	200mm
S3-920	250mm

S3-936, S3-937, S3-938, S3-939

S3-940, S3-941, S3-942

S3-943 to S3-950

INSTRUMENT TRAY & COVER

S3-936	400×260×75mm, #4
S3-937	320×200×55mm, #6
S3-938	255×165×50mm, #7
S3-939	230×130×45mm, #8

INSTRUMENT TRAY & FLAT COVER

S3-940	320×200×55mm, #6
S3-941	255×165×50mm, #7
S3-942	230×130×45mm, #8

INSTRUMENT TRAY A, W/O COVER

S3-943	225×125×50mm
S3-944	230×155×50mm
S3-945	310×195×55mm
S3-946	415×250×65mm
S3-947	525×320×65mm

INSTRUMENT TRAY B, W/O COVER

S3-948	360×310×47mm
S3-949	305×260×50mm
S3-950	200×150×35mm

S3-950D

S3-921

S3-917F

S3-950D	COMPARTMENT TRAY (D/P TRAY) , 265×150×16mm
S3-921	MEDICINE TRAY, 410×310×12mm
S3-917F	JAR WITH TRANSFER FORCEP, 200×50mm

- INDEX -

ITEM NO.	PAGE
PSBP 1.0	2
PSBP 1.5	2
PSBP 2.0	2
PSBP 2.5	2
PSBP 3.0	2
PSBP 3.5	2
PSBP 4.0	2
PSBP 5.0	2
PSBP 6.0	2
PSBP 7.0	2
PSBP 8.0	2
S1-200	3
S1-210	3
S1-211	3
S1-220	3
S1-226	4
S2-70	35
S2-72	35
S2-104	75
S2-164	105
S2-183	105
S3-901	110
S3-902	110
S3-903	110
S3-904	110
S3-905	110
S3-906	110
S3-907	110
S3-908	110
S3-909	110
S3-915	110
S3-916	110
S3-917	110
S3-917F	112
S3-918	110
S3-920	110
S3-921	112
S3-936	111
S3-937	111
S3-938	111
S3-939	111
S3-940	111
S3-941	111
S3-942	111
S3-943	111
S3-944	111
S3-945	111
S3-946	111
S3-947	111
S3-948	111
S3-949	111
S3-950	111
S3-950D	112
S3-951	110
S3-952	110
S3-953	110
S3-954	110
S3-1100	109
S3-1101	109
S4-7	1
S4-8	1
S4-9	1
S4-100	1
S4-310	1
S4-311	1
S4-312	1
S4-315	1
S4-315C	1
S4-320	1
S4-321	1
S4-322	1
S4-325	1
S5-6	6
S5-16	6
S5-18	6
S5-19	6
S5-26	6
S5-28	6
S5-36	6
S5-46	6
S5-56	6
S5-120	7
S5-122	7
S5-124	7
S5-126	7
S5-128	7
S5-130	7
S5-160	9
S5-162	9
S5-175	8
S5-177	8
S5-179	8
S5-180	8
S5-180TC	17
S5-181	8
S5-182	8
S5-182A-TC	17
S5-182B-TC	17
S5-183	8
S5-184	8
S5-186	8
S5-188	8
S5-220	9
S5-224	9
S5-226	9
S5-230	9
S5-288	8
S5-300	10
S5-302	10
S5-304	10
S5-306	10
S5-514	15
S5-516	15
S5-600	15
S5-1000	15
S5-1100	15
S6-8	18
S6-10	18
S6-12	18
S6-14	18
S6-16	18
S6-18	18
S6-44	18
S6-46	18
S6-47	18
S6-48	18
S6-50	18
S6-104	19
S6-118	20
S6-118XL	20
S6-120	20
S6-120XL	20
S6-124	20
S6-142	21
S6-144	21
S6-145	21
S6-166	19
S6-168	19
S6-188	19
S6-189	19
S6-197	23
S6-198	23
S7-2	29
S7-4	29
S7-10	29
S7-14	29
S7-16	29
S7-24	29
S7-26	29
S7-36	30

- INDEX -

ITEM NO.	PAGE
S7-38	30
S7-42	30
S7-44	30
S7-46	30
S7-48	30
S7-50	30
S7-52	30
S7-66	32
S7-102	32
S7-120	31
S7-122	31
S7-124	31
S7-126	31
S7-128	31
S7-138	31
S7-140	31
S7-142	31
S7-144	31
S7-146	31
S7-152	32
S7-154	32
S7-202	33
S7-206	33
S7-220	32
S7-280	42
S7-290	42
S7-504	41
S7-505	41
S7-506	41
S7-600	39
S7-602	39
S7-604	39
S7-610	39
S7-614	39
S7-616	39
S7-632	39
S7-1200	38
S7-1201	38
S7-1202	38
S7-1203	38
S7-1204	38
S7-1205	38
S7-1206	38
S7-1301	38
S7-1302	38
S7-1303	38
S8-6	44
S8-7	44
S8-7TC	46
S8-8	44
S8-8TC	46
S8-14	44
S8-15	44
S8-15TC	46
S8-16	44
S8-16TC	46
S8-17	44
S8-17TC	46
S8-42	45
S8-42TC	47
S8-43	45
S8-44	45
S8-44TC	47
S8-46	45
S8-46TC	47
S8-48	45
S8-48TC	47
S8-50	45
S8-50TC	47
S8-51	45
S8-51TC	47
S8-52	45
S8-52TC	47
S8-130	45
S8-706TC	46
S9-100	16
S9-101	16
S9-102	16
S9-103	16
S9-104	16
S9-117	16
S9-124	15
S9-128	84
S9D-132	15
S10-26-SS	107
S10-28-SS	107
S10-310	75
S10-312	75
S11-6	64
S11-10	60
S11-14	64
S11-30	52
S11-34	52
S11-73	51
S11-74	51
S11-76	51
S11-102	51
S11-122	57
S11-134	49
S11-136	49
S11-140	49
S11-143	49
S11-144	49
S11-146	49
S11-198	58
S11-198-1	58
S11-198-2	58
S11-198-3	58
S11-198-4	58
S11-198-5	58
S11-198-6	58
S11-218	59
S11-219	59
S11-220	59
S11-221	59
S11-222	59
S11-223	59
S11-224	59
S11-225	59
S11-226	59
S11-227	59
S11-228	59
S11-229	59
S11-240	54
S11-242	54
S11-244	54
S11-260A	57
S11-260B	57
S11-266	57
S11-267	57
S11-268	57
S11-346	52
S11-350	52
S11-365	60
S11-366	60
S11-413	63
S11-414	63
S11-415	63
S11-470	62
S11-471	62
S11-500	65
S11-502	65
S11-530	50
S11-532	50
S11-534	50
S11-538	50
S11-540	50
S11-542	50
S11-580	55
S11-582	55

- INDEX -

ITEM NO.	PAGE
S11-590-1	54
S11-590-2	54
S11-590-3	54
S11-608	60
S11-610	60
S11-614	60
S11-616	60
S11-650	61
S11-672	64
S11-684	61
S14-8	81
S14-8-3	81
S14-8-4	81
S14-8-5	81
S14-8-6	81
S14-8-7	81
S14-8-8	81
S14-8-9	81
S14-8-10	81
S14-8-11	81
S14-48	33
S14-49	33
S16-6	36
S16-8	36
S16-10	36
S16-12	36
S16-30	36
S16-44	36
S16-46	36
S16-102	41
S16-108	37
S16-110	37
S16-130	37
S16-131	37
S16-132	37
S16-133	37
S16-230	41
S16-232	41
S16-234	41
S17-301	25
S17-303X	25
S17-304	25
S17-305X	25
S17-307X	25
S17-308	25
S17-1100	40
S17-1150	40
S17-2049	14
S17-2050	14
S17-2100	14
S17-2110	14
S17-2150	14
S17-2160	14
S17-2500	20
S17-2510	20
S18-2	68
S18-22	68
S18-35	68
S18-36	68
S18-37	68
S18-50	68
S18-64	68
S18-66	68
S18-110	53
S18-112	53
S18-114	53
S18-116	53
S18-120	53
S18-424	65
S18-650	106
S18-740	107
S18-742	107
S18-744	107
S18-746	107
S18-748	107
S18-779	24
S18-780	24
S18-782	24
S18-785	24
S18-786	24
S18-788	24
S18-866	22
S18-867	22
S18-868	22
S18-946	40
S18-951	40
S18-952	40
S18-953	40
S18-1136	22
S18-1174	26
S18-1178	26
S18-1200	26
S18-1202	26
S18-1204	26
S18-1208	26
S18-1418	11
S18-1422	10
S18-1426	10
S18-1462	12
S18-1464	12
S18-1472	12
S18-1474	12
S18-1476	12
S18-1480	14
S18-1486	14
S18-1486W	14
S18-1620	13
S18-1622	13
S18-1623	13
S18-1828	45
S18-1828ATC	48
S18-1828TC	48
S18-1832	45
S18-1832ATC	48
S18-1832TC	48
S18-1967	82
S18-1968	82
S19-48	70
S19-011	92
S19-011S	92
S19-012	92
S19-013	92
S19-014	92
S19-102	4
S19-106	4
S19-139A	93
S19-139BS	93
S19-140	93
S19-370	23
S19-371	23
S19-372	23
S19-373	23
S19-410	27
S19-434	27
S19-466	92
S19-467	92
S19-573	75
S19-574	75
S19-575	75
S19-576	75
S19-577	75
S19-578	75
S19-579	75
S19-706	78
S19-708	78
S19-710	78
S19-712	78
S19-714	78
S19-716	78
S19-718	78

- INDEX -

ITEM NO.	PAGE
S19-720	78
S19-752	89
S19-758	89
S19-791	97
S19-793	97
S19-808	99
S19-848	99
S19-854	99
S19-2100	27
S20-2	71
S20-3	71
S20-4	71
S20-12	70
S20-13	70
S20-14	70
S20-15	70
S20-24	71
S20-150	27
S20-160	12
S20-620	27
S21-64	82
S21-92	65
S21-148	51
S21-152	65
S21-165	51
S21-180	56
S21-188	52
S21-213	87
S21-214	87
S21-215	87
S21-225	87
S21-226	87
S21-228	87
S21-229	87
S21-282	90
S21-284	90
S21-338	90
S21-342	90
S21-626	96
S21-657	103
S21-658	103
S21-659	103
S21-660	103
S22-662	34
S23-1-000	108
S23-2-00	108
S23-4-0	108
S23-6-1	108
S23-8-2	108
S23-10-3	108

ITEM NO.	PAGE
S23-12-4	108
S23-14-5	108
S23-16-6	108
S23-18-7	108
S23-155	5
S23-156-1	5
S23-156-2	5
S23-156-3	5
S23-156-4	5
S23-156B	5
S23-158F	5
S23-159F	5
S23-1430	80
S24-570	21
S24-702	42
S24-704	42
S24-752	42
S24-754	42
S25-28	82
S25-98	64
S25-272	56
S25-273	56
S25-274	56
S25-390	96
S25-392	96
S25-456	99
S25-458	99
S25-761	41
S25-800	34
S25-836	34
S25-837	34
S25-838	34
S26-91	57
S26-92	57
S26-130	106
S26-150	93
S26-160C	93
S26-160H	93
S26-160S	93
S26-160SA	93
S26-250	84
S26-330	100
S26-332	100
S26-334	100
S26-336	100
S26-338	100
S26-339A	100
S26-388	100
S26-392A	100
S26-393A	100

ITEM NO.	PAGE
S26-394	102
S26-395	102
S26-396	102
S26-397	102
S26-398	102
S26-399	102
S26-402	102
S26-435	102
S26-590	103
S26-1084	65
S26-1092	65
S26-1352	56
S26-1354	56
S26-1410	82
S26-1412	82
S26-1629	78
S26-1630	78
S26-1632	78
S26-1634	78
S26-1636	78
S26-1973	61
S27-3	94
S27-4A	94
S27-4B	94
S27-4C	94
S27-4D	94
S27-4E	94
S27-5	94
S27-30	93
S27-32	93
S27-34	93
S27-100	105
S27-101	105
S27-102	105
S27-103	105
S27-103-1	105
S27-103-2	105
S27-103-17	105
S27-103-19	105
S27-104	105
S27-105	105
S27-106	105
S27-110-01	84
S27-110-02	84
S27-159TC	85
S27-161TC	85
S27-163TC	85
S27-180	106
S27-213	55
S27-215	55

- INDEX -

ITEM NO.	PAGE
S27-216	55
S27-270	87
S27-272	87
S27-418	89
S27-420	89
S27-422	89
S27-424	89
S27-438	86
S27-438C	86
S27-440	86
S27-440C	86
S27-442	86
S27-442C	86
S27-446	86
S27-446C	86
S27-458	88
S27-460	88
S27-460C	88
S27-462	88
S27-462C	88
S27-466	88
S27-466C	88
S27-510	86
S27-512	86
S27-514	86
S27-516	86
S27-518	86
S27-520	86
S27-522	86
S27-530	86
S27-532	86
S27-534	86
S27-536	86
S27-538	86
S27-540	86
S27-542	86
S27-549	88
S27-550	88
S27-551	88
S27-553	88
S27-554	88
S27-556	88
S27-558	88
S27-620-1	89
S27-620-2	89
S27-620-3	89
S27-620-4	89
S27-620-5	89
S27-620-6	89
S27-660	97
S27-661	97
S27-663-1	98
S27-663-2	98
S27-663-3	98
S27-703	91
S27-1390	96
S27-1391	96
S27-1392	96
S27-1560	91
S27-2001	83
S27-2020	83
S27-3094	91
S27-3100	91
S28-3	69
S28-4	69
S28-5	69
S28-20	69
S28-22	69
S28-31	69
S28-60	62
S28-150	104
S28-152	104
S28-375-1	75
S28-375-2	75
S28-375-3	75
S28-375-4	75
S29-284	35
S29-286	35
S29-288	35
S29-290	35
S29-805	43
S29-850	43
S30-50	66
S30-75	66
S30-80	66
S30-85	66
S30-110	66
S30-187	66
S30-210	67
S30-215	67
S30-220	67
S30-300	54
S30-305	54
S30-310	54
S30-395	67
S30-406	67
S30-415	67
S30-550	79
S30-550-12	79
S30-555-34	79
S30-555-56	79
S30-555-78	79
S30-555-910	79
S30-555-1112	79
S30-555-1314	79
S30-555-1516	79
S30-555-1718	79
S30-557	80
S30-557-1	80
S30-557-2	80
S30-557-3	80
S30-557-4	80
S30-557-5	80
S30-557-6	80
S30-557-7	80
S30-557-8	80
S30-557-9	80
S30-557-10	80
S30-557-11	80
S30-557-12	80
S30-557-13	80
S30-558	80
S30-558-14	80
S30-558-15	80
S30-558-16	80
S30-558-17	80
S30-558-18	80
S30-558-19	80
S30-558-20	80
S30-560-1315	79
S30-560-1719	79
S30-560-2123	79
S30-560-2527	79
S30-560-2931	79
S30-560-3335	79
S30-560-3739	79
S30-560-4143	79
S30-561	79
S30-650	108
S30-965	32
S30-1000	32
S30-1205-0	77
S30-1205-00	77
S30-1205-1	77
S30-1205-2	77
S30-1205-3	77
S30-1205-4	77
S30-1205A-0	77
S30-1205A-00	77
S30-1205A-1	77

- INDEX -

ITEM NO.	PAGE
S30-1205A-2	77
S30-1205A-3	77
S30-1205A-4	77
S30-1391	76
S30-1442	101
S30-1443	101
S30-1482	28
S30-1485	28
S30-1500	74
S30-1501	74
S30-1502	74
S30-1503	74
S30-1504	74
S30-1505	74
S30-1508	108
S30-1700	32
S30-1710	32
S30-2195	9
S30-2505	32
S33-2	76
S33-3	76
S33-4	76
S33-5	76
S33-200	72
S33-201	72
S33-202	72
S33-203	72
S33-204	72
S33-206	72
S33-210	73
S33-214	73
S33-215	73
S66-317	23
S95-310.23	95
S95-310.25	95
S95-310.28	95
S95-334.71	98
S95-335.11	98
S97-591	43
S4640	11
S4701	11
S4702	11
S4704	11
S4955	11
S-D01	109
S-T003	109
S-T004	109
S-T103	109
S-T104	109

ITEM NO.	PAGE

ITEM NO.	PAGE