



Vantage®

ECONOMY-GRADE SURGICAL INSTRUMENTS

*Miltex*  
Redefining Excellence



## TABLE OF CONTENTS

Diagnostic .....	1
Scissors .....	2-4
Forceps .....	5-12
Needle Holders .....	13-14
Suture .....	15
Retractors .....	16
Intestinal .....	17
Eye .....	18-19
Ear and Nasal .....	20-21
Orthopedic .....	22
Gynecological .....	23
Dermal .....	24
Instrument Care Steps	
Instrument Care Products	



**The Vantage® Advantage**

## **Surgical Instruments**

All manufactured with high grade Japanese Stainless Steel unless otherwise indicated. Illustrations signify general design only.

Vantage® is a registered trademark of Miltex, Inc.



**DESIGNED TO MEET YOUR  
STANDARDS FOR EXCELLENCE  
AND COST EFFECTIVENESS**

Manufactured in Pakistan to our exact specifications and with our high grade Japanese stainless steel, Vantage® surgical instruments are a cost-effective answer for tight instrument budgets.

Each instrument is properly hardened and tempered and then passivated, electrolytically polished and ultrasonically cleaned to provide a finish that matches instruments selling at several times the price.

Quality materials and quality craftsmanship give you the performance you demand; lower manufacturing costs give you the prices you need. That's what makes Vantage® the best instrument value available today. It's what we call "The Vantage® Advantage."

**THE VANTAGE® GUARANTEE**

All Vantage® instruments are guaranteed to be free from defects in workmanship and material. Any Vantage® instrument which proves defective in workmanship and/or material will either be repaired or replaced at our discretion without charge.

# Recommended Steps in Cleaning, Sterilization and Maintenance of Surgical Instruments



## 1. HOLDING/PRESOAK

Never hold instruments in a dry container. Doing so allows blood and debris to dry onto instrument surfaces and makes cleaning more difficult. If rinsing and decontamination processes are not immediately available, pre-treat instruments or hold them in a neutral pH holding/presoak enzymatic solution after patient use but before actual cleaning. Miltex<sup>®</sup> Instrument Prep Enzyme Foam (3-760) is a ready to use foaming spray for pre-cleaning soiled instruments and scopes. Simply spray the foam on instruments until they are ready for processing. Also, Miltex<sup>®</sup> EZ-Zyme<sup>®</sup> (3-750 and 3-755) neutral pH all purpose multi-enzyme concentrate is ideal for instrument presoaking and pre-cleaning. As soon as possible, rinse and clean as follows:

## 2. RINSING

Always wear safety protection gear.

Immediately after surgery, remove organic materials by rinsing instruments under warm (not hot) running water. Rinse should remove most blood, fluids and tissue. Do not process dissimilar metals (stainless, copper, chrome plated, etc.) together.

**Note:** *Disinfection can be included to protect medical personnel from contamination during cleaning; however, protection also can be accomplished by following standard precautions by wearing appropriate PPE as promulgated by OSHA & AORN.*

## 3. CLEANING

All blood, dried body fluids and tissue should be completely removed from instruments prior to sterilization. Several methods for removing these materials are available.

- A. **Soak:** An enzymatic cleaner bath (soak) such as Miltex<sup>®</sup> EZ-Zyme<sup>®</sup> (3-750 and 3-755) or a solution of water and neutral pH (7) detergent such as Miltex<sup>®</sup> Surgical Instrument Cleaner (3-720, 3-725 and 3-726) is effective in removing organic material from instruments. Use distilled (demineralized) water, if possible. Instruments should be fully submerged for at least 10 minutes. Do not let "sharps" (scissors, knives, osteotomes, etc.) touch each other. Ensure that dissimilar metal instruments are separated. Rinse instruments under running water to remove solutions and change solutions frequently.
- B. **Ultrasonic Cleaning:** Most instrument manufacturers recommend ultrasonic cleaning as the most effective way to clean surgical instruments, particularly instruments with hinges, box locks and other moving parts.
  - All instruments must be fully submerged in an open position using distilled (demineralized) water, if possible. To prevent possible surface scratching make sure that "sharps" do not touch other instruments. Also, separate instruments of dissimilar metals.
  - Process instruments for the full recommended ultrasonic cleaning cycle. Change solution frequently or as often as the manufacturer recommends.

- Rinse instruments with water to remove the cleaning solution. Miltex<sup>®</sup> EZ-Zyme<sup>®</sup> (3-750 and 3-755) or Miltex<sup>®</sup> Surgical Instrument Cleaner (3-720, 3-725 and 3-726) can be safely used with all ultrasonic units.

C. **Automatic Washer Sterilizers:** Following manufacturers' recommendations, ensure that instruments are lubricated before the sterilization cycle and after the last rinse cycle.

**CAUTION:** Needle holders and forceps may crack if sterilized with ratchet in closed position.

D. **Manual Cleaning:** If ultrasonic cleaning is not available, observe the following steps:

- Use stiff nylon cleaning brushes (3-1000). Do not use steel wool or wire brushes except stainless steel wire brushes (3-1001) specially recommended for instrument serrated areas, bone files, burs or on stained areas of knurled handles.
- Use only neutral pH (7) detergents such as Miltex<sup>®</sup> Surgical Instrument Cleaner (3-720, 3-725 and 3-726). If not rinsed off properly, low pH (acidic - less than 6 pH) detergents break down the stainless protective surface resulting in pitting and/or black staining on instruments. High pH detergents (alkaline - more than 8 pH) can cause brown stains (phosphate surface deposit) which can also interfere with the smooth operation of instruments. Most brown stains are not rust and are easily removed with Miltex<sup>®</sup> Surgical Instrument Stain Remover (3-740).
- Brush delicate instruments carefully, and if possible, separate them from general instruments.
- Make sure instrument surfaces are visibly clean and are free from stains and tissue. Miltex<sup>®</sup> Surgical Instrument Stain Remover (3-740) can help remove residue stains. This is also a good time to inspect each instrument for proper function and condition.
- Check scissors' blades to ensure proper function. Blades should open and close smoothly. Test cutting performance at 3/4 length of the blade with the materials recommended below. Scissors should cut all the way to the tips. Recommended cutting test materials:
  - Fine/Delicate scissors: Surgical glove
  - Medium scissors: Single layer of stocking/cast netting
  - Large/Utility scissors: Double layer of stocking/cast netting
- Check forceps (pickups) for proper jaw alignment. Teeth must meet properly without catching.
- Check hemostats and needle holders to ensure jaw tips close in first ratchet position and that the entire jaw closes in third ratchet position. Check instruments for loose hinges and verify that they lock and unlock easily. Also check instruments for wear on jaw surfaces.



# Recommended Steps in Cleaning, Sterilization and Maintenance of Surgical Instruments

- Suction tubes should be clean inside.
- Test Biopsy Punches by punching a clean hole in 3-6 mil thick poly-bag material. If poly-bag material is not available, use tissue paper.
- Retractors should function properly.
- Cutting edge instruments and knives should be sharp and free of damage.
- After scrubbing, rinse instruments thoroughly under running water. While rinsing, open and close scissors, hemostats, needle holders and other hinged instruments to ensure that hinged areas are rinsed out and that no debris remains.

## 4. AFTER CLEANING

Separate dissimilar metals prior to sterilizing/autoclaving. If instruments will be stored, allow them to air-dry and store them in a clean and dry environment.

## 5. AUTOCLAVING

- A. **Lubricate all hinged instruments** which have any "metal to metal" action at the screw or box lock. A non-silicone, water-soluble surgical lubricant such as Miltex® Lube (3-700 or 3-705) is recommended. Do not use industrial oils or lubricants.
- B. **Sterilize instruments** either individually or in sets.
- **Individual Instruments:** Disposable paper or plastic pouches are ideal. Make sure to use a wide enough pouch for instruments with ratchet locks so instruments can be sterilized in an open (unlocked) position. Instruments locked during autoclaving can develop cracked hinges (box locks) or other problems because of heat expansion. If wrapping instruments, make sure the towel does not contain detergent residue which can stain instruments.
  - **Instrument Sets:** Unlock all instruments and sterilize in an open position. Place heavy instruments on the bottom of set (when two layers are required). Do not overload the chamber because an air pocket that hinders steam penetration may form.

**CAUTION:** With most portable tabletop autoclaves, unlock the door and open it no more than a crack, about 1/4" (6.4 mm). (at the end of the autoclave cycle and before the drying cycle) Then run the dry cycle for the period recommended by the autoclave manufacturer. If the autoclave door is fully opened before the drying cycle, cold air will rush into the chamber and will cause condensation on the instruments, potentially resulting in water stains or causing wet packs. Make sure autoclave filters and chambers are cleaned as recommended by the manufacturer. Miltex® Surgical Instrument Stain Remover (3-740) is effective in removing stains and in cleaning the autoclave chamber. If you have any unusual staining on your instruments after sterilization, obtain our Instrument Care DVD (3-810) or contact your local Miltex® representative.

## 6. CHEMICAL/COLD STERILIZATION

Most chemical/cold sterilization solutions render instruments sterile only after 10-hour immersion. This prolonged chemical action can be more detrimental to instruments than the usual 20-minute autoclave cycle. If the instruments need to be "disinfected" only, a chemical/cold sterilization soak is acceptable, as disinfection will take approximately 10 minutes or more. Check manufacturers' specifications. Also see our warning in using bleach (paragraph 3).

Keep in mind the difference between:

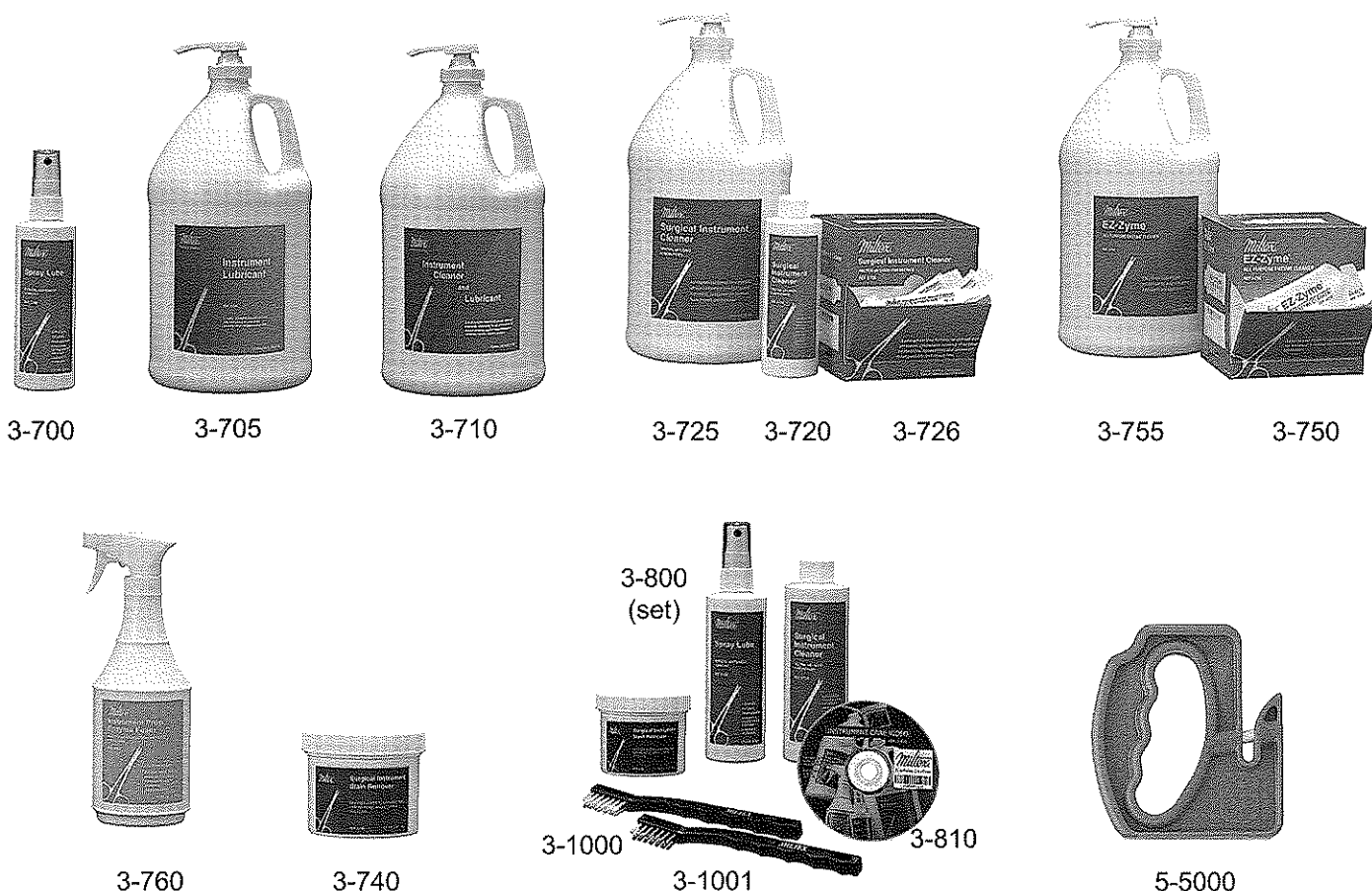
- Sterile - an absolute term (no living organism survives); and
- Disinfected - basically clean. Some organisms may survive. Always use the proper sterilization/cleaning technique to render the instrument in the required condition for use.

**CAUTION:** For instruments with tungsten carbide insert jaws, the use of chemical/cold sterilization solutions is not recommended as it may deteriorate the instrument's jaw.

**We recommend these Miltex products to properly safeguard and care for your quality instruments.**

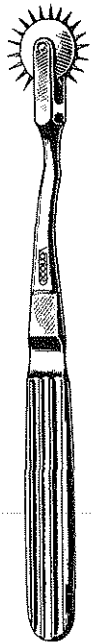
REF	Description	Use During
3-760	Instrument Prep Enzyme Foam 24 oz. spray	• Holding & presoak
3-750	EZ-Zyme®, All Purpose Enzyme Cleaner Box 32 - 3/4 oz. packets	• Holding & presoak • Soak cleaning
3-755	EZ-Zyme®, All Purpose Enzyme Cleaner 1-gallon pump bottle	• Ultrasonic cleaning • Manual cleaning • Laundry presoak
3-700	Spray Lube 8 oz. spray bottle	• Before autoclaving
3-705	Surgical Instrument Lubricant 1-gallon pump bottle	
3-710	Surgical Instrument Cleaner & Lubricant 1-gallon pump bottle	• Manual cleaning • Washer/decontaminator • Ultrasonic cleaning
3-720	Surgical Instrument Cleaner 8 oz. spray bottle	• Soak cleaning • Ultrasonic cleaning • Manual cleaning
3-725	Surgical Instrument Cleaner 1-gallon pump bottle	
3-726	Surgical Instrument Cleaner Box 80 - 1/4 oz. packets	
3-740	Surgical Instrument Stain Remover 3 oz. jar	• Stain removal
3-1000	Nylon Instrument Cleaning Brushes 3-pack	• Manual cleaning of instruments
3-1001	Stainless Steel Instrument Cleaning Brushes 3-pack	
3-800	Instrument Care System	• Complete instrument care
3-810	Instrument Care DVD	• Training personnel in the care of instruments

# Instrument Care Products

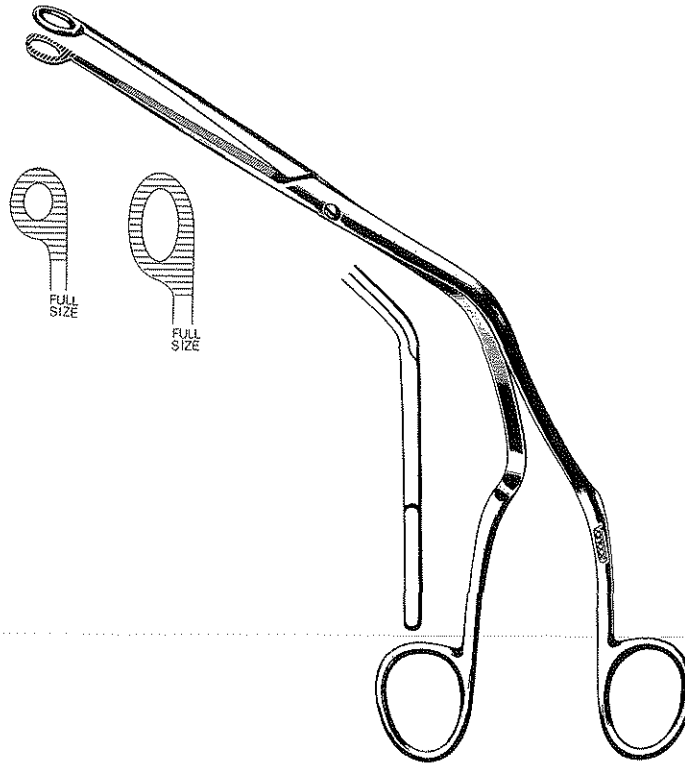


The Miltex care and cleaning product portfolio is designed to provide optimum cleaning performance and will help to prolong the service life of valuable surgical and dental instrumentation. Many products are available in multiple sizes, including single-dose packets for ease of use, space-saving 8 oz. bottles, and 1-gallon bulk containers with pump dispensers.

REF	Description
3-700	MILTEX Spray Lubricant, 8 fl. oz. spray bottle (0.24 liters) (case of 12)
3-705	MILTEX Lubricant, 1-gallon bottle (3.78 liters).
3-710	MILTEX Surgical Instrument Cleaner/Lubricant, 1-gallon bottle (3.78 liters).
3-720	MILTEX Surgical Instrument Cleaner, 8 fl. oz. bottle (0.24 liters). Contents of 8 oz. bottle makes 32 gallons of solution.
3-725	MILTEX Surgical Instrument Cleaner, 1-gallon bottle (3.78 liters). Contents of 1-gallon bottle makes 512 gallons of solution.
3-726	MILTEX Surgical Instrument Cleaner, Box 80 – 1/4 oz. (7.4 ml) packets. Contents of 1 box makes 80 gallons of solution.
3-740	MILTEX Surgical Instrument Stain Remover, 3 oz. (85g) jar (case of 12)
3-750	MILTEX EZ-Zyme®, All Purpose Enzyme Cleaner, Box 32 – 3/4 oz. (22 ml) packets. Contents of 1 box makes 32 gallons of solution.
3-755	MILTEX EZ-Zyme®, All Purpose Enzyme Cleaner, 1-gallon bottle (3.78 liters). Contents of 1-gallon bottle makes 170 gallons of solution.
3-760	MILTEX Instrument Prep Enzyme Foam, 24 oz. (0.71 liters) spray bottles (case of 12)
3-800	MILTEX Instrument Care System Kit includes one each of Spray Lube, Surgical Instrument Cleaner (8 oz.), Surgical Instrument Stain Remover, Instrument Care Video/DVD, Nylon Brush, Stainless Steel Brush.
3-810	MILTEX Instrument Care DVD, 25-minute instructional DVD designed to help practitioners and staff properly care for instruments
3-1000	MILTEX Nylon Instrument Cleaning Brushes, 7-1/4" (18.4 cm) (set of 3)
3-1001	MILTEX Stainless Steel Instrument Cleaning Brushes, 7-1/4" (18.4 cm) (set of 3)
5-5000	MILTEX Edge Scissors Sharpener, not intended for serrated or SuperCut scissors



**V91-226**



**V92-70  
V92-72**

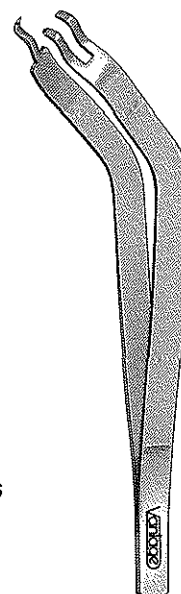
**V91-226** WARTENBERG Neurological Pin Wheel 7"

**V92-70** MAGILL Endotracheal Catheter Introducing Forceps 9",  
adult size (large ring jaws)

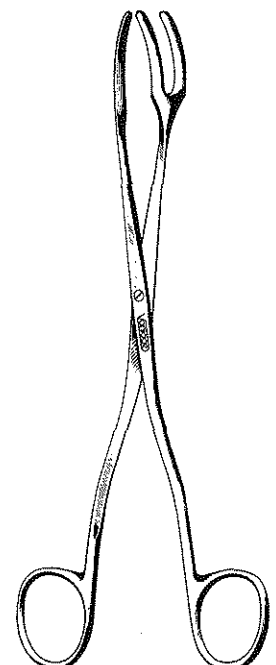
**V92-72** MAGILL Endotracheal Catheter Introducing Forceps 7",  
child size (small ring jaws)

**V93-10** Three-Prong Sterilizer Forceps 8"

**65-25** Grasping Forceps 6 1/4", designed to pick up small items  
like needles, burs, etc.

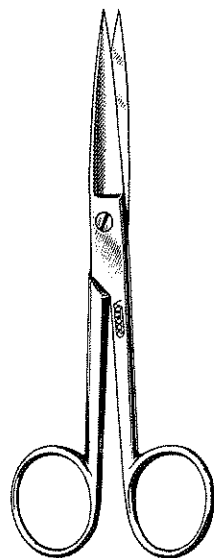


**65-25**

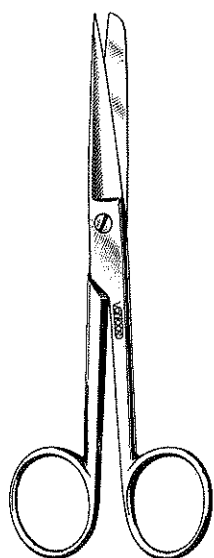


**V93-10**

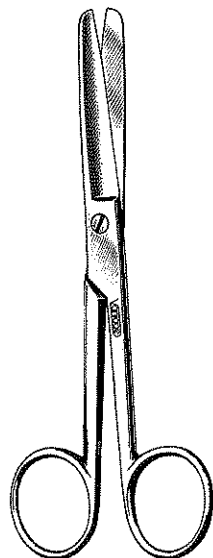




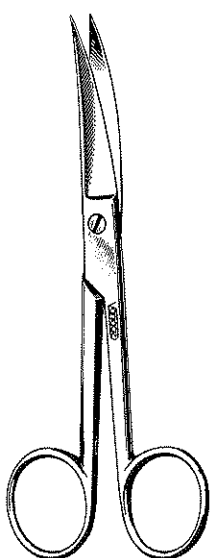
V95-2 to 9



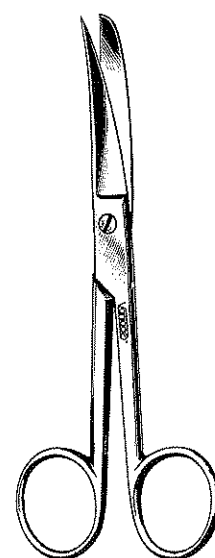
V95-12 to 19



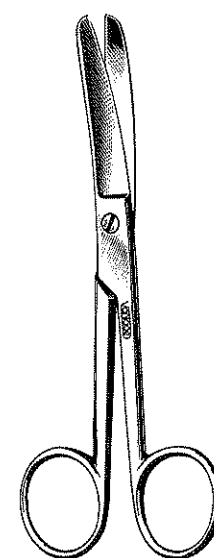
V95-22 to 29



V95-32 to 38



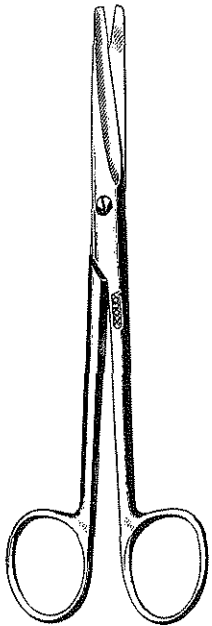
V95-42 to 48



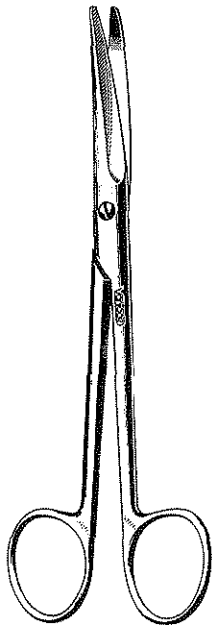
V95-52 to 58

## OPERATING SCISSORS (Standard Pattern)

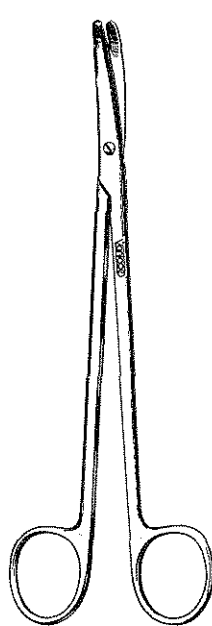
Straight	Sharp-Sharp Points	Curved
V95-2	4 1/2"	V95-32
V95-4	5"	—
V95-6	5 1/2"	V95-36
V95-8	6 1/2"	V95-38
V95-9	7 1/2"	—
V95-12	4 1/2"	V95-42
V95-16	5 1/2"	V95-46
V95-18	6 1/2"	V95-48
V95-19	7 1/2"	—
V95-22	4 1/2"	V95-52
V95-26	5 1/2"	V95-56
V95-28	6 1/2"	V95-58
V95-29	7 1/2"	—



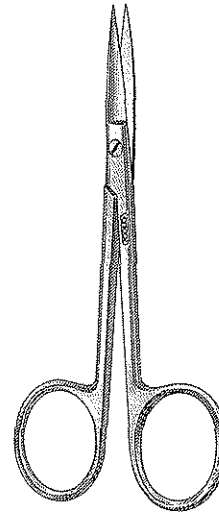
**V95-120**  
**V95-124**



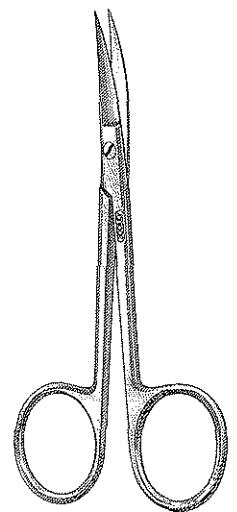
**V95-122**  
**V95-126**



**V95-180**  
**V95-182**



**V95-304**



**V95-306**

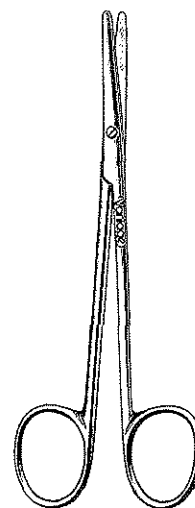
**V95-120** MAYO Dissecting Scissors 5 1/2", straight  
**V95-124** MAYO Dissecting Scissors 6 3/4", straight

**V95-122** MAYO Dissecting Scissors 5 1/2", curved  
**V95-126** MAYO Dissecting Scissors 6 3/4", curved

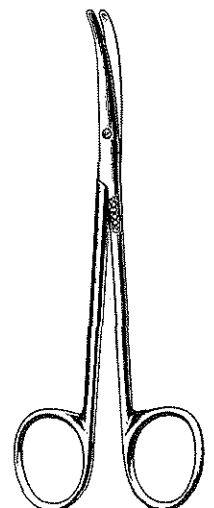
**V95-180** METZENBAUM Dissecting Scissors 5 1/2", curved  
**V95-182** METZENBAUM Dissecting Scissors 7", curved

**V95-304** Iris Scissors 4 1/8", straight  
**V95-306** Iris Scissors 4 1/8", curved

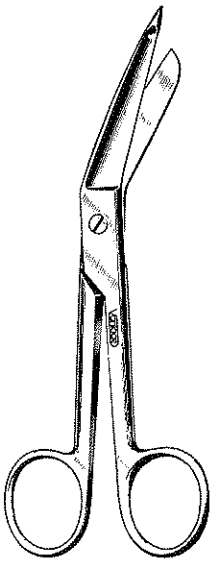
**V95-312** Strabismus Scissors 4", straight  
**V95-314** Strabismus Scissors 4", curved



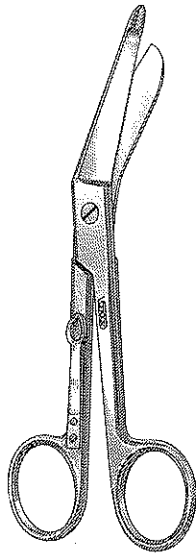
**V95-312**



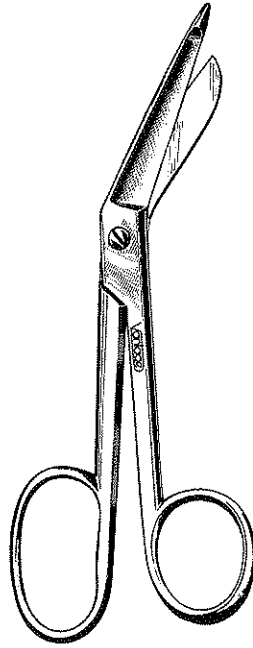
**V95-314**



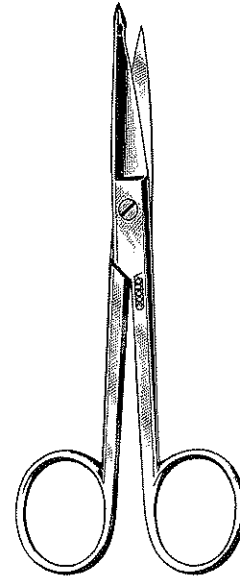
**V95-500 to 524**



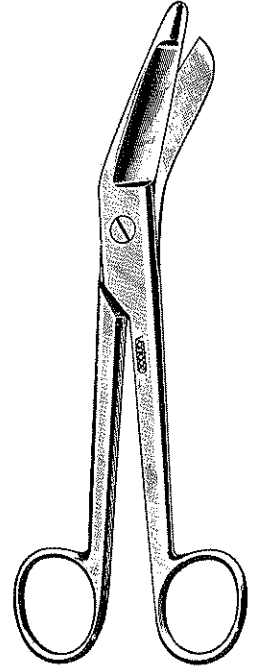
**V95-532**



**V95-550**



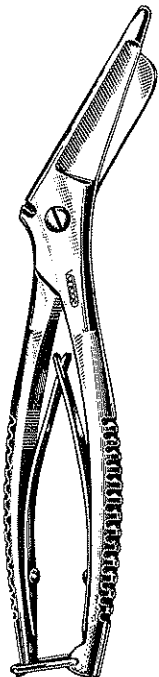
**V95-560**



**V95-568**

## LISTER BANDAGE SCISSORS

Stainless	Size
<b>V95-500SS</b>	3½"
<b>V95-502SS</b>	4½"
<b>V95-504SS</b>	5½"
<b>V95-506SS</b>	7¼"



**V95-600**

- V95-524** LISTER Bandage Scissors 5½", gold plated
- V95-532** LISTER Bandage Scissors 5½", w/pocket clip
- V95-550** LISTER Bandage Scissors 8", w/one large ring
- V95-560** KNOWLES Bandage Scissors 5½"
- V95-568** ESMARCH Plaster Shears 8"
- V95-600** First Aid Shears 8½", with wire cutter, one serrated blade



V96-1 to  
V96-18

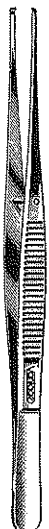


V96-40 to  
V96-46

FULL  
SIZE



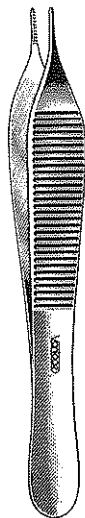
V96-104



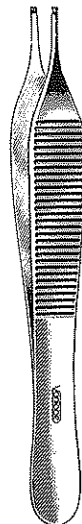
V96-106

FULL  
SIZE

FULL  
SIZE

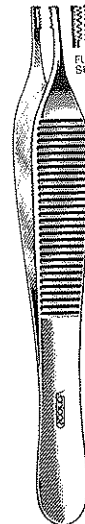


V96-118



V96-120

FULL  
SIZE



V96-124

FULL  
SIZE



V96-142

FULL  
SIZE

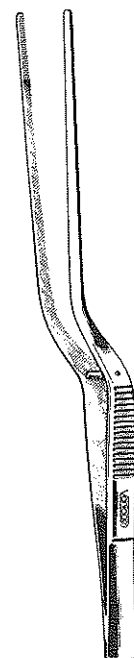
### DRESSING FORCEPS, Serrated Tips

V96-1	3½"	V96-10	6"
V96-4	4½"	V96-14	8"
V96-6	5"	V96-16	10"
V96-8	5½"	V96-18	12"

### TISSUE FORCEPS, 1 × 2 Teeth

V96-40	4½"	V96-44	5½"
V96-42	5"	V96-46	6"

- V96-104 SEMKEN Dressing Forceps 5", serrated
- V96-106 SEMKEN Tissue Forceps 5", 1 × 2 teeth
- V96-118 ADSON Dressing Forceps 4¾", serrated
- V96-120 ADSON Tissue Forceps 4¾", 1 × 2 teeth
- V96-124 BROWN-ADSON Tissue Forceps 4¾", 7 × 7 teeth
- V96-142 RUSSIAN Tissue Forceps 6"
- V96-197 JANSEN Bayonet Dressing Forceps 6¼", serrated



V96-197

# Splinter Forceps



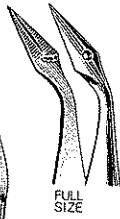
**V96-300**  
**V96-304**



FULL  
SIZE



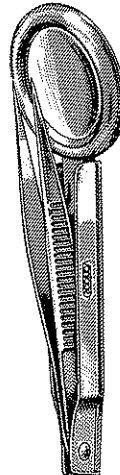
**V96-312**  
**V96-314**



FULL  
SIZE



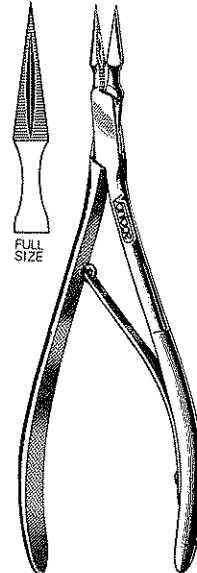
**V96-316**  
**V96-318**



**V96-329**



FULL  
SIZE



**V96-336**

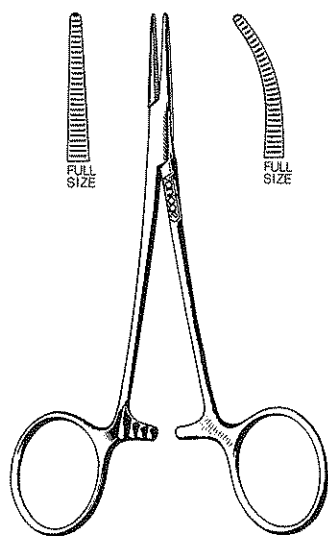


**V96-400**

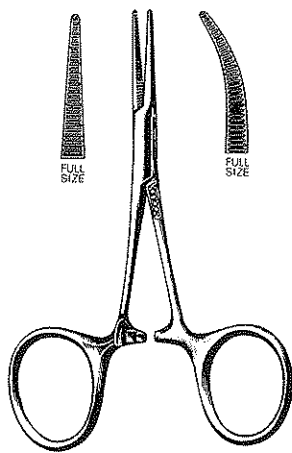


**V96-410**

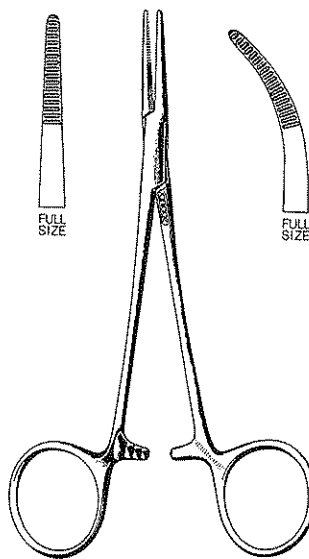
- V96-300** Regular Splinter Forceps 3½", fine serrated points
- V96-304** Regular Splinter Forceps 4½", fine serrated points
- V96-312** WALTER Splinter Forceps 4½", straight
- V96-314** WALTER Splinter Forceps 4½", curved
- V96-316** FEILCHENFELD Splinter Forceps 3"
- V96-318** FEILCHENFELD Splinter Forceps 4½"
- V96-329** Splinter Forceps 3", with magnifier, in pocket case (ideal for removal of ticks)
- V96-336** VIRTUS Splinter Forceps 6"
- V96-400** Splinter Liberator 5", in reversible handle
- V96-410** Splinter Removal Kit (No. V96-312 and No. V96-400 in case)



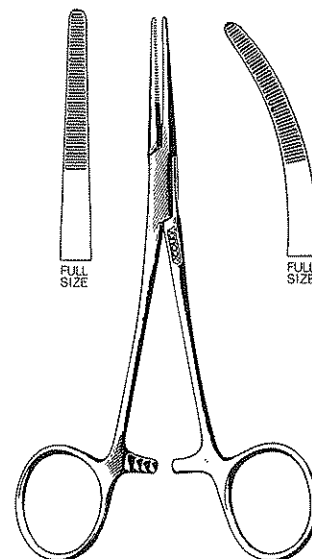
**V97-2**  
**V97-4**



**V97-24**  
**V97-26**



**V97-30**  
**V97-32**



**V97-36**  
**V97-38**

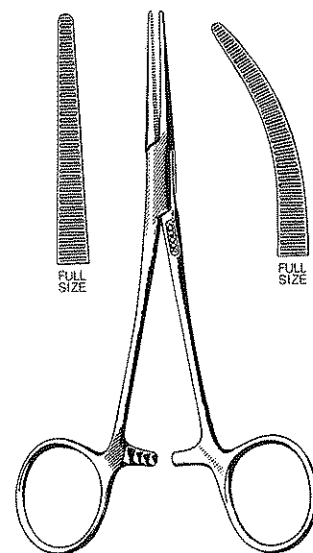
**V97-2** HALSTEAD Mosquito Forceps 5", straight  
**V97-4** HALSTEAD Mosquito Forceps 5", curved

**V97-24** HARTMAN Mosquito Forceps 3 1/2", straight  
**V97-26** HARTMAN Mosquito Forceps 3 1/2", curved

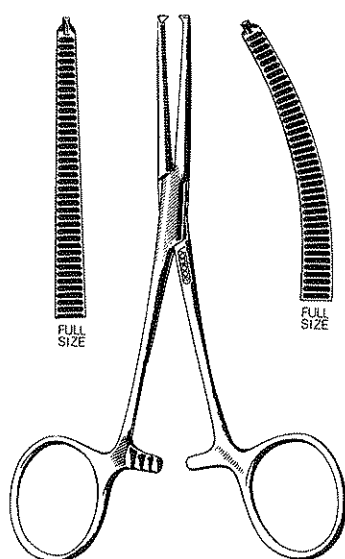
**V97-30** PROVIDENCE HOSPITAL Forceps 5 1/2", straight  
**V97-32** PROVIDENCE HOSPITAL Forceps 5 1/2", curved

**V97-36** KELLY Forceps 5 1/2", straight  
**V97-38** KELLY Forceps 5 1/2", curved

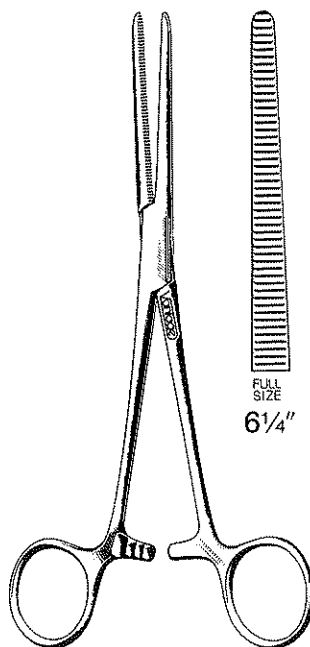
**V97-42** CRILE Forceps 5 1/2", straight  
**V97-44** CRILE Forceps 5 1/2", curved  
**V97-46** CRILE Forceps 6 1/4", straight  
**V97-48** CRILE Forceps 6 1/4", curved



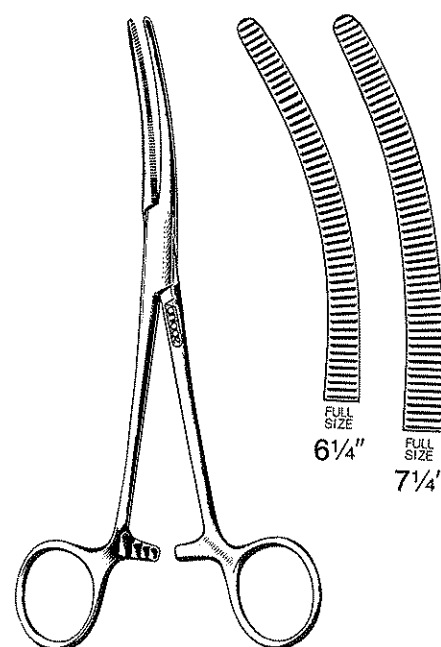
**V97-42 to V97-48**



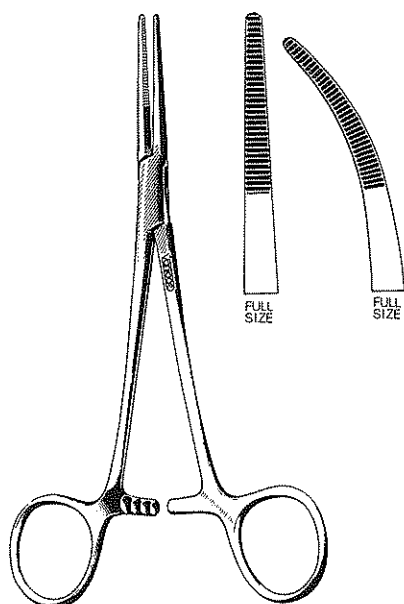
**V97-66**  
**V97-68**



**V97-118 to V97-128**



**V97-136 to V97-146**



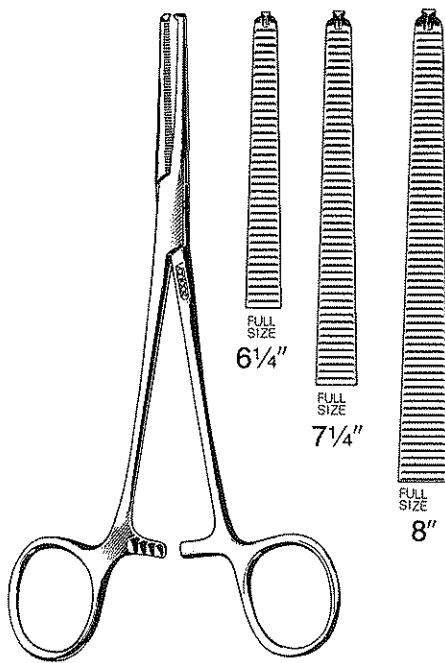
**V97-92**  
**V97-94**

**V97-66** KOCHER Forceps 5½", straight, 1 × 2 teeth  
**V97-68** KOCHER Forceps 5½", curved, 1 × 2 teeth

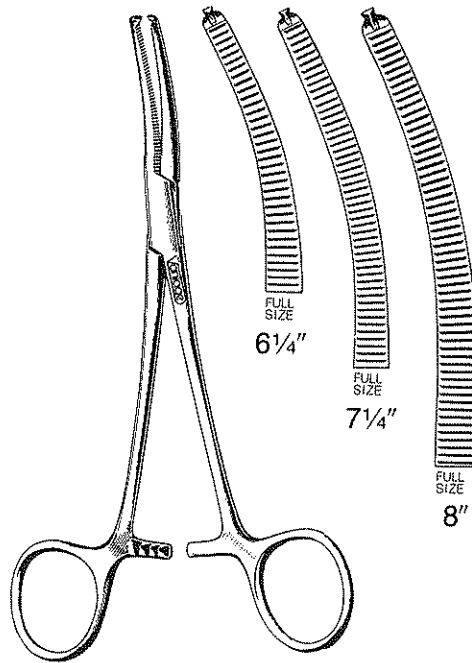
**V97-92** RANKIN Forceps 6¼", straight  
**V97-94** RANKIN Forceps 6¼", curved

## ROCHESTER PEAN FORCEPS

Straight	Length	Curved
<b>V97-118</b>	5½"	<b>V97-136</b>
<b>V97-120</b>	6¼"	<b>V97-138</b>
<b>V97-122</b>	7¼"	<b>V97-140</b>
<b>V97-124</b>	8"	<b>V97-142</b>
<b>V97-126</b>	9"	<b>V97-144</b>
<b>V97-128</b>	10¼"	<b>V97-146</b>



**V97-150 to 157**

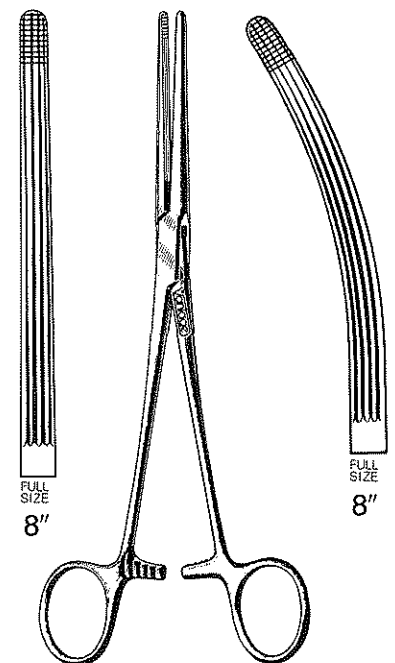


**V97-160 to 167**

**ROCHESTER OCHSNER FORCEPS, 1 × 2 Teeth**

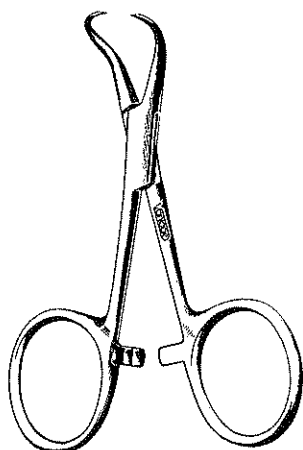
Straight	Length	Curved
<b>V97-150</b>	6 1/4"	<b>V97-160</b>
<b>V97-152</b>	7 1/4"	<b>V97-162</b>
<b>V97-154</b>	8"	<b>V97-164</b>
<b>V97-156</b>	9"	<b>V97-166</b>
<b>V97-157</b>	10"	<b>V97-167</b>

<b>V97-170</b>	ROCHESTER CARMALT Forceps 6 1/4", straight
<b>V97-172</b>	ROCHESTER CARMALT Forceps 6 1/4", curved
<b>V97-180</b>	ROCHESTER CARMALT Forceps 8", straight
<b>V97-182</b>	ROCHESTER CARMALT Forceps 8", curved

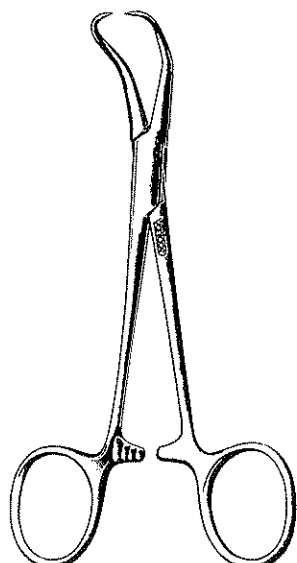


**V97-170 to 182**

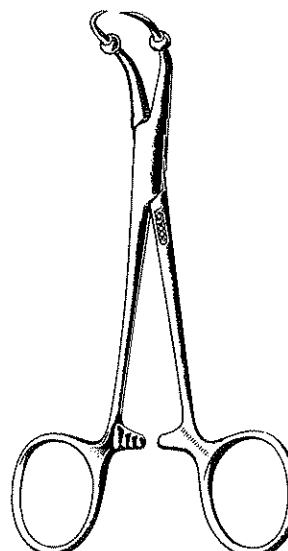




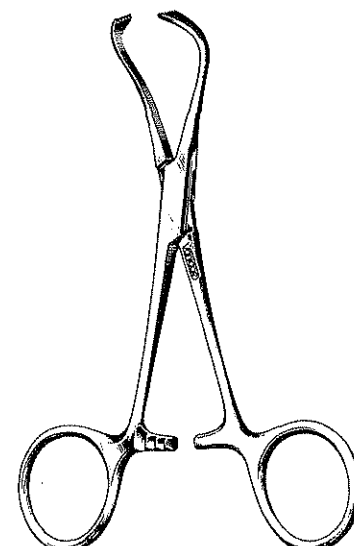
**V97-504**



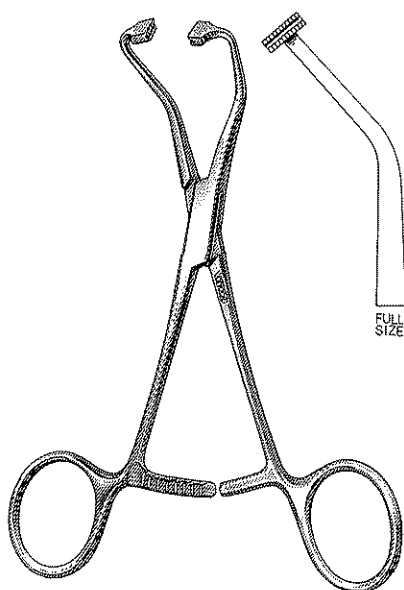
**V97-506**



**V97-510**



**V97-514  
V97-515**

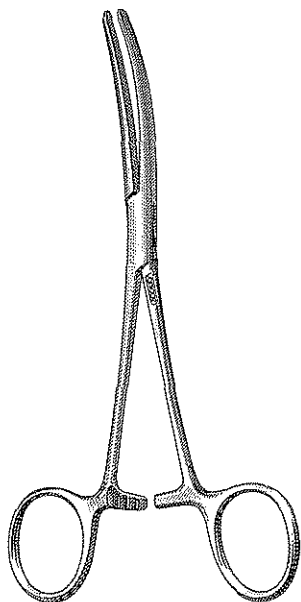


**V97-520**

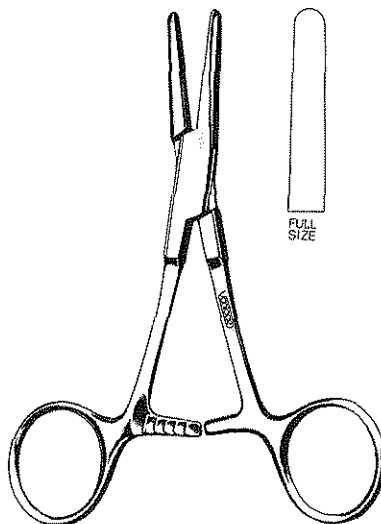


**V97-500**

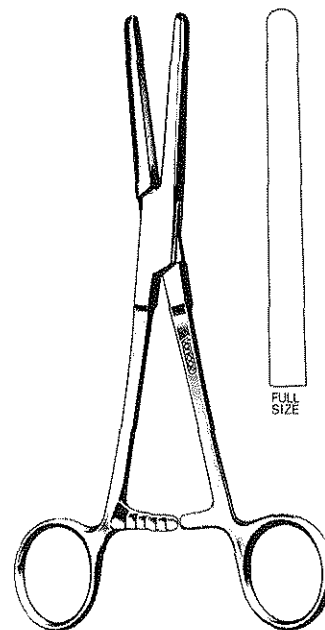
- |                |   |
|----------------|---|
| <b>V97-500</b> | JONES Towel Clamp 3½"                   |
| <b>V97-504</b> | BACKHAUS Towel Clamp 3½"                |
| <b>V97-506</b> | BACKHAUS Towel Clamp 5¼"                |
| <b>V97-510</b> | ROEDER Towel Clamp 5¼", with ball stops |
| <b>V97-514</b> | LORNA Non-Perforating Towel Clamp 3½"   |
| <b>V97-515</b> | LORNA Non-Perforating Towel Clamp 5¼"   |
| <b>V97-520</b> | PEERS Non-Perforating Towel Clamp 5¾"   |



**V97-584**

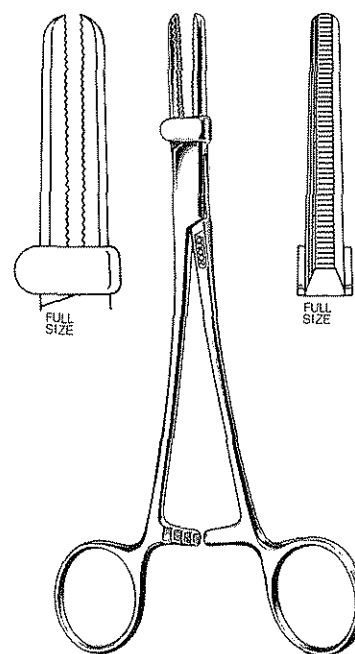


**V97-588**

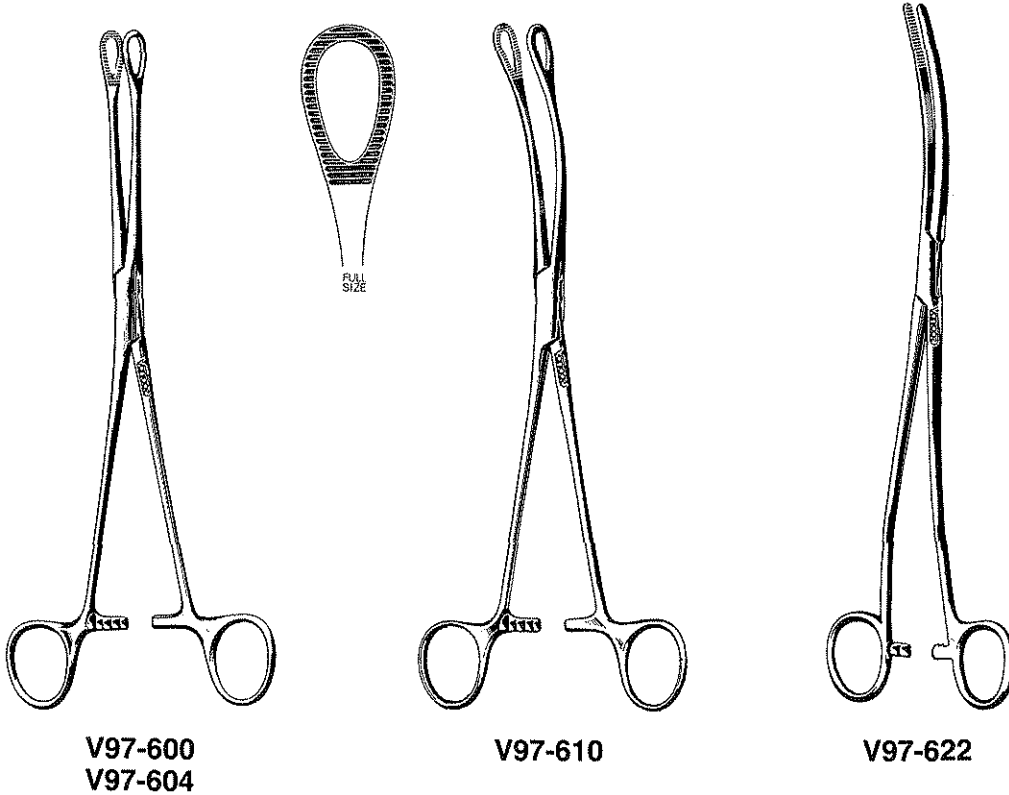


**V97-590**

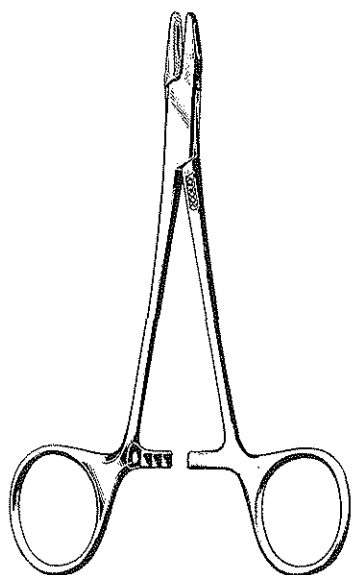
- V97-584** ST. VINCENTS Tube Occluding Clamp 6¼", curved smooth jaws
- V97-588** English Pattern Tube Occluding Clamp 4½", straight smooth jaws
- V97-590** PRESBYTERIAN HOSPITAL Tube Occluding Clamp 7", smooth jaws heavy pattern
- V97-585** U.S. Pattern Tube Occluding Clamp 5¾", straight serrated jaws, with stop
- V97-591** U.S. Pattern Tube Occluding Clamp 7½", straight serrated jaws, with stop



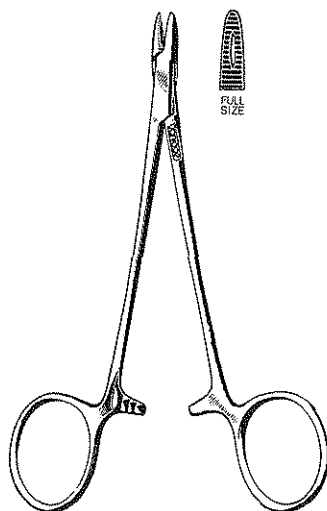
**V97-585  
V97-591**



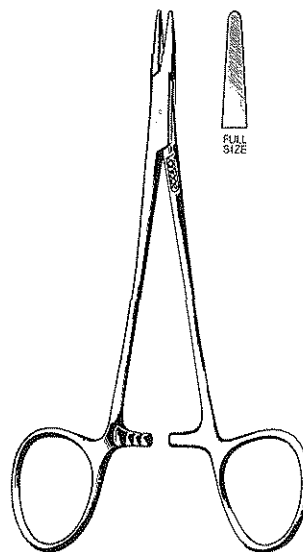
- |                |  |
|----------------|--|
| <b>V97-600</b> | FOERSTER Sponge Forceps 9½", straight, serrated jaws |
| <b>V97-604</b> | FOERSTER Sponge Forceps 7", straight, serrated jaws  |
| <b>V97-610</b> | FOERSTER Sponge Forceps 9½", curved, serrated jaws   |
| <b>V97-622</b> | BOZEMAN Dressing Forceps 10½", double curved         |



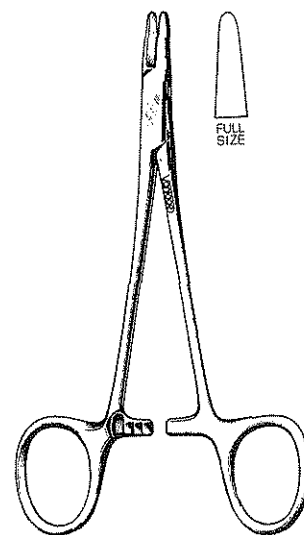
V98-2



V98-4

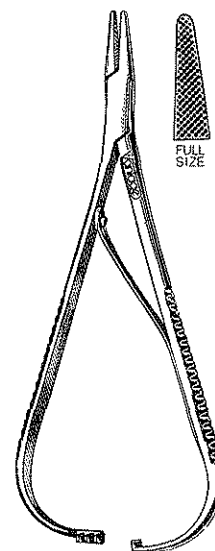


V98-6

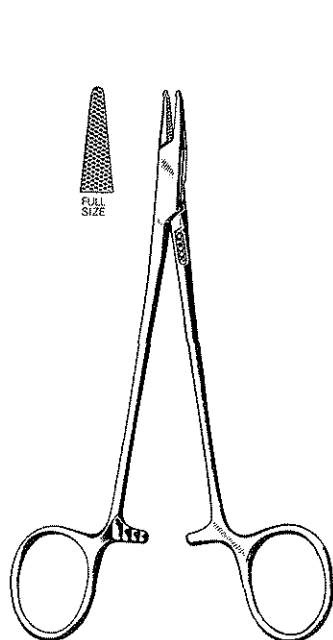


V98-8

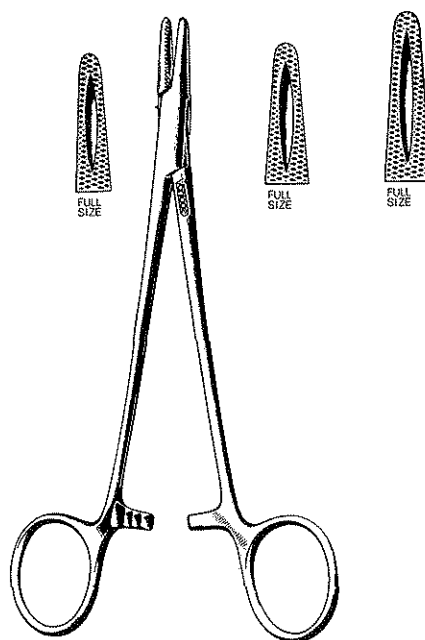
- V98-2** COLLIER Needle Holder 5", fenestrated jaws
- V98-4** DERF Needle Holder 4 $\frac{3}{4}$ "
- V98-6** WEBSTER Needle Holder 5", smooth jaws
- V98-8** HALSEY Needle Holder 5", smooth jaws
- V98-28** MATHIEU Needle Holder, 5 $\frac{1}{2}$ ", with spring handles



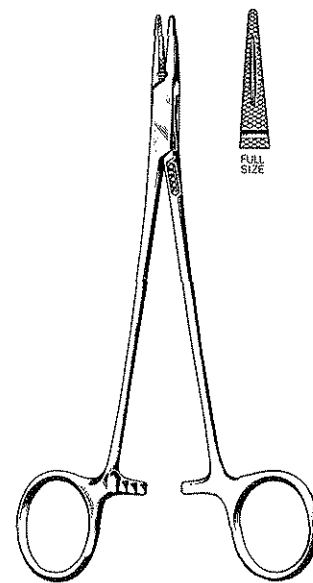
V98-28



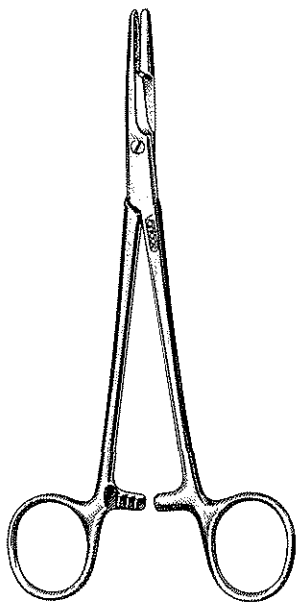
**V98-40**



**V98-42 to 48**



**V98-50**



**V98-15 to 17**

**V98-40** BAUMGARTNER Needle Holder 5½"

**V98-42** MAYO-HEGAR Needle Holder 5"

**V98-44** MAYO-HEGAR Needle Holder 6"

**V98-46** MAYO-HEGAR Needle Holder 7"

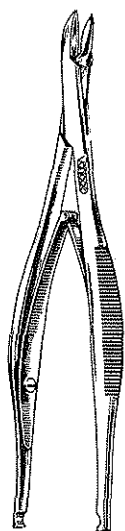
**V98-48** MAYO-HEGAR Needle Holder 8"

**V98-50** CRILE-WOOD Needle Holder 6", delicate jaws

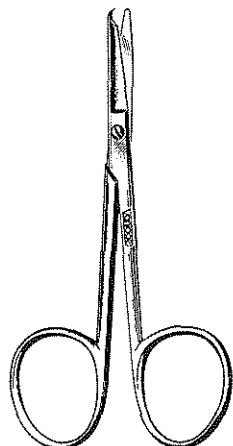
**V98-15** OLSEN-HEGAR Needle Holder 5½" with Suture Scissors

**V98-16** OLSEN-HEGAR Needle Holder 6½" with Suture Scissors

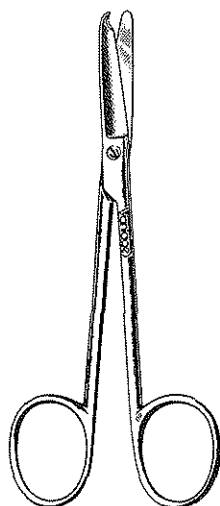
**V98-17** OLSEN-HEGAR Needle Holder 7½" with Suture Scissors



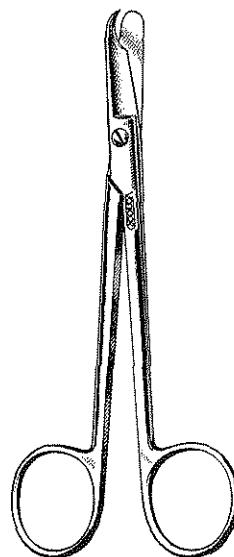
**V99-60**



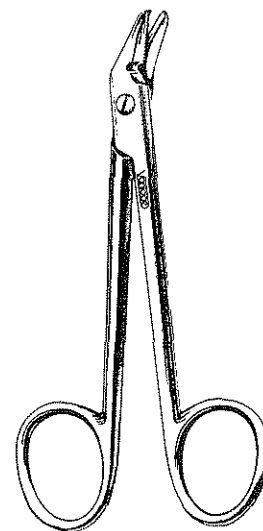
**V99-100**



**V99-102**



**V99-104**



**V99-124**

**V99-60** MICHEL Clip Applying and Removing Forceps 5", double end

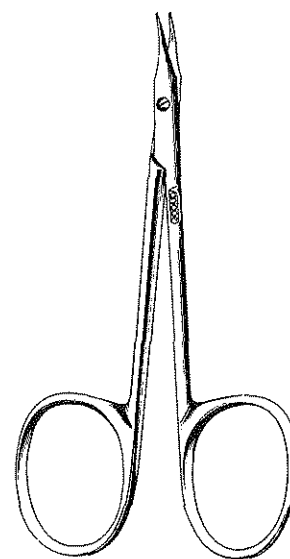
**V99-100** SPENCER Stitch Scissors 3½", delicate

**V99-102** LITTAUER JUNIOR Stitch Scissors 4½"

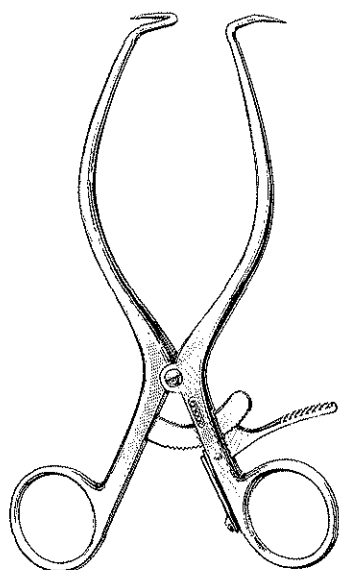
**V99-104** LITTAUER Stitch Scissors 5½", standard pattern

**V99-124** Wire Cutting Scissors 4¾", angular, one serrated blade

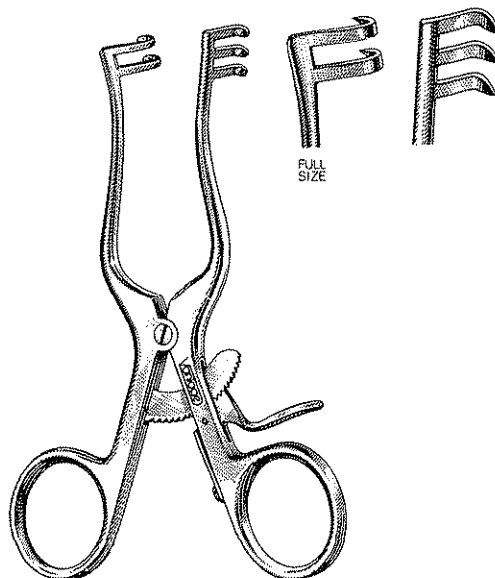
**V918-1652** Eye Suture Scissors 3¾", curved, very delicate pointed blades



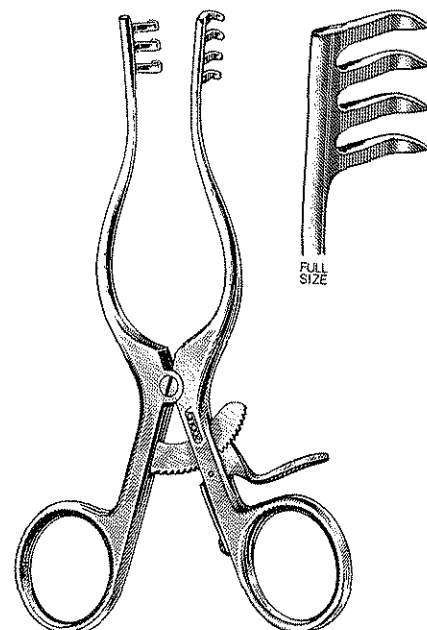
**V918-1652**



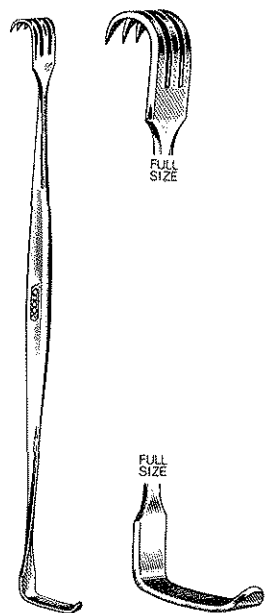
**V911-366**



**V911-600 to 602**



**V911-608 to 614**



**V911-74**

**V911-74** SENN Retractor 6 $\frac{3}{8}$ ", sharp prongs, double end

**V911-366** GELPI Retractor 6 $\frac{3}{4}$ ", with grip lock ratchet

## WEITLANER RETRACTORS w/grip lock ratchets

w/Sharp Teeth

**V911-600** 4", 2  $\times$  3 teeth

**V911-608** 5 $\frac{1}{2}$ ", 3  $\times$  4 teeth

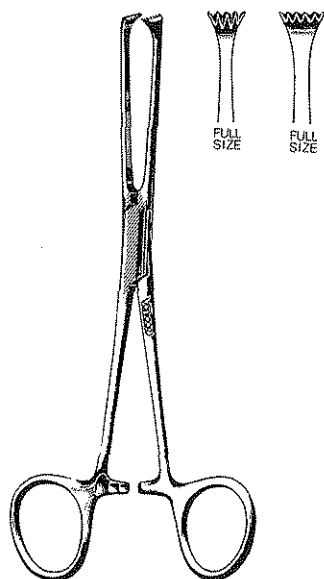
**V911-614** 6 $\frac{1}{2}$ ", 3  $\times$  4 teeth

w/Blunt Teeth

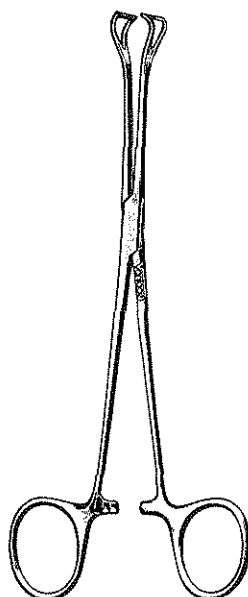
**V911-602**

**V911-610**

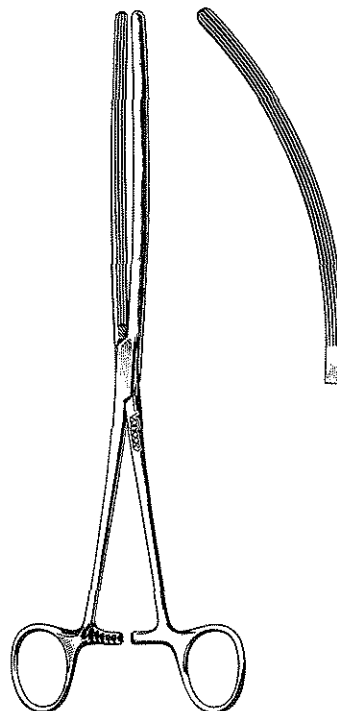
**V911-616**



**V916-6 to 10**



**V916-44**



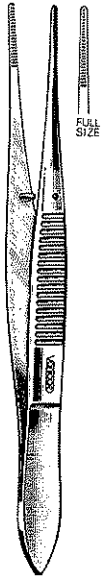
**V916-160  
V916-162**

- V916-6** ALLIS Tissue Forceps 6", 4 × 5 teeth
- V916-8** ALLIS Tissue Forceps 6", 5 × 6 teeth
- V916-10** ALLIS Tissue Forceps 7¼", 5 × 6 teeth

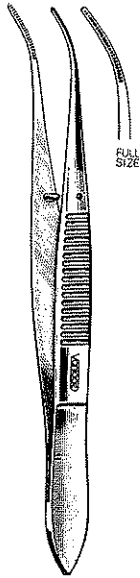
- V916-44** BABCOCK Tissue Forceps 6¼", 8mm wide jaws

- V916-160** DOYEN Intestinal Forceps 9", straight, longitudinal serrations
- V916-162** DOYEN Intestinal Forceps 9", curved, longitudinal serrations

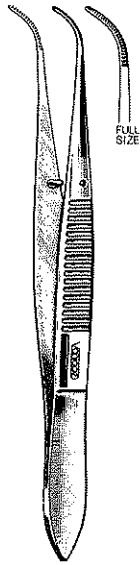




**V918-780**



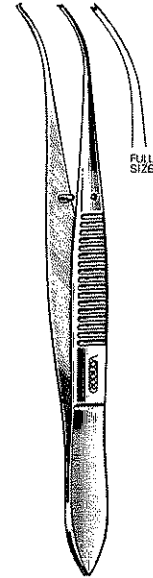
**V918-782**



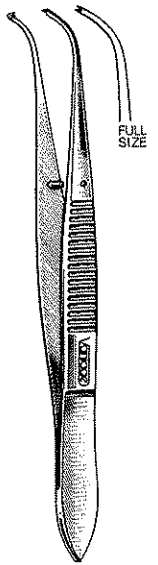
**V918-784**



**V918-786**



**V918-788**



**V918-790**



**V918-412**

**V918-412** TYRELL HOOK 5", sharp point

**V918-780** Eye Dressing Forceps 4", straight, serrated tips

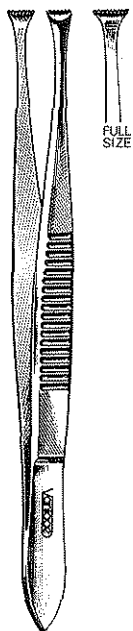
**V918-782** Eye Dressing Forceps 4", half curved, serrated tips

**V918-784** Eye Dressing Forceps 4", full curved, serrated tips

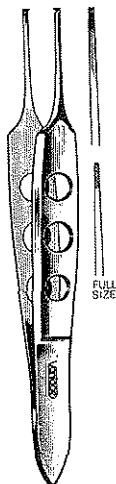
**V918-786** Iris Tissue Forceps 4", straight, 1 x 2 teeth

**V918-788** Iris Tissue Forceps 4", half curved, 1 x 2 teeth

**V918-790** Iris Tissue Forceps 4", full curved, 1 x 2 teeth



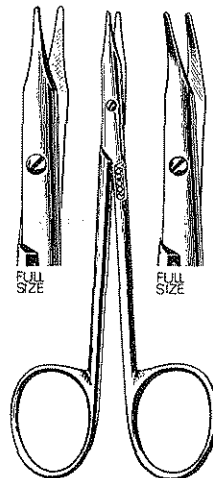
V918-850



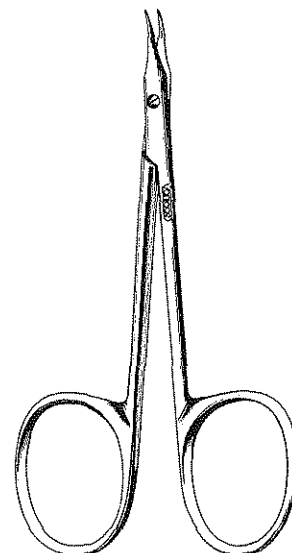
V918-866  
V918-868



V918-1110



V918-1462  
V918-1466



V918-1652

**V918-850** GRAEFE Fixation Forceps 4 $\frac{3}{8}$ ", w/fine teeth

**V918-866** BISHOP-HARMON Dressing Forceps 3 $\frac{3}{8}$ ", serrated tips

**V918-868** BISHOP-HARMON Tissue Forceps 3 $\frac{3}{8}$ ", 1  $\times$  2 teeth

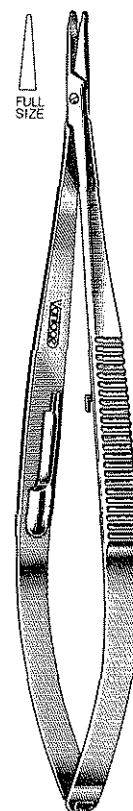
**V918-1110** BERGH Cilia Forceps 3 $\frac{1}{2}$ ", fine serrated jaws

**V918-1462** STEVENS Tenotomy Scissors 4 $\frac{1}{8}$ ", straight, blunt points

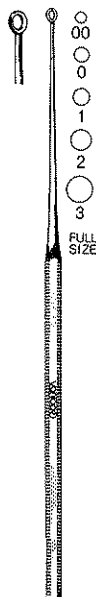
**V918-1466** STEVENS Tenotomy Scissors 4 $\frac{1}{8}$ ", curved, blunt points

**V918-1652** Eye Suture Scissors 3 $\frac{3}{4}$ ", curved, very delicate pointed blades

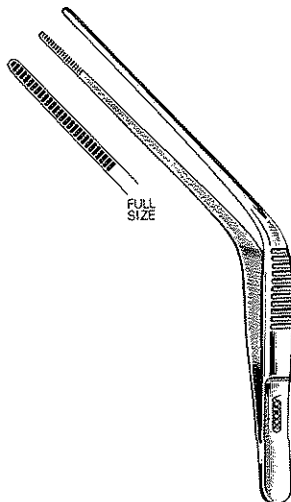
**V918-1828** CASTROVIEJO Needle Holder 5 $\frac{1}{2}$ ", straight jaws, with catch



V918-1828



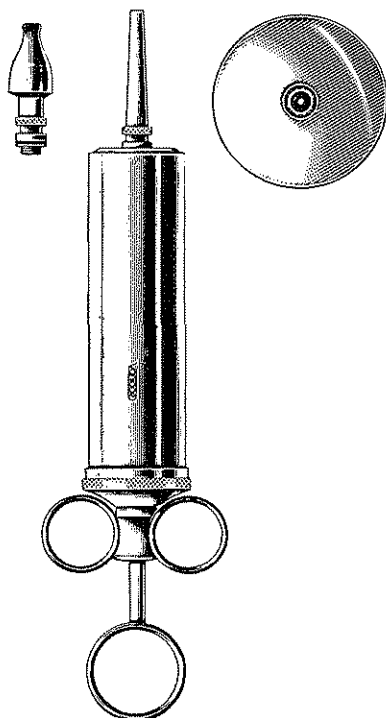
**V919-280 to 288**



**V919-350**



**V919-370**



**V919-381 to 385**

- V919-280** BUCK Ear Curette, straight, blunt, size 00
- V919-282** BUCK Ear Curette, straight, blunt, size 0
- V919-284** BUCK Ear Curette, straight, blunt, size 1
- V919-286** BUCK Ear Curette, straight, blunt, size 2
- V919-288** BUCK Ear Curette, straight, blunt, size 3

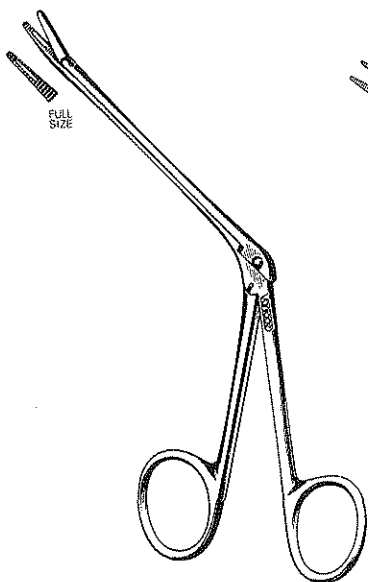
**V919-350** WILDE Ear Forceps 5", angular, with serrated tips

**V919-370** LUCAE Ear Forceps 5½", bayonet shape, with serrated tips

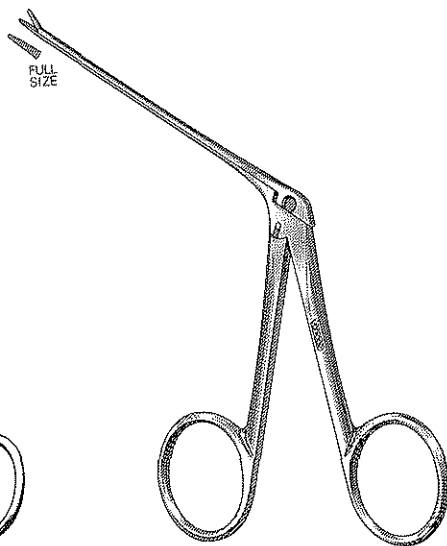
METAL EAR SYRINGES, complete with  
one short bulbous tip, one tapered tip and shield, chrome

- |                 |                |
|-----------------|----------------|
| <b>V919-381</b> | 2 oz. capacity |
| <b>V919-383</b> | 3 oz. capacity |
| <b>V919-385</b> | 4 oz. capacity |

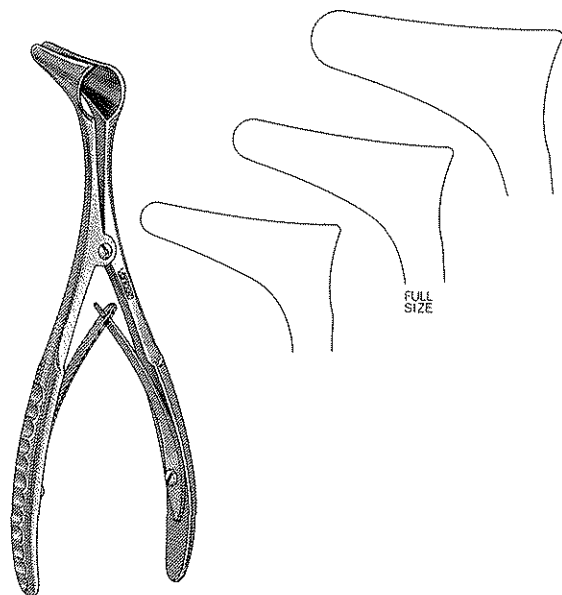
- V919-390** Short Bulbous Tip only
- V919-394** Tapered Tip only
- V919-396** Shield only



**V919-434**



**V919-434A**



**V920-2 to V920-4**

**V919-434** HARTMAN-NOYES Alligator Ear Forceps, 3 1/4" shaft, serrated jaws

**V919-434A** HARTMAN-NOYES Alligator Ear Forceps, 3 1/4" shaft, serrated jaws, extra delicate

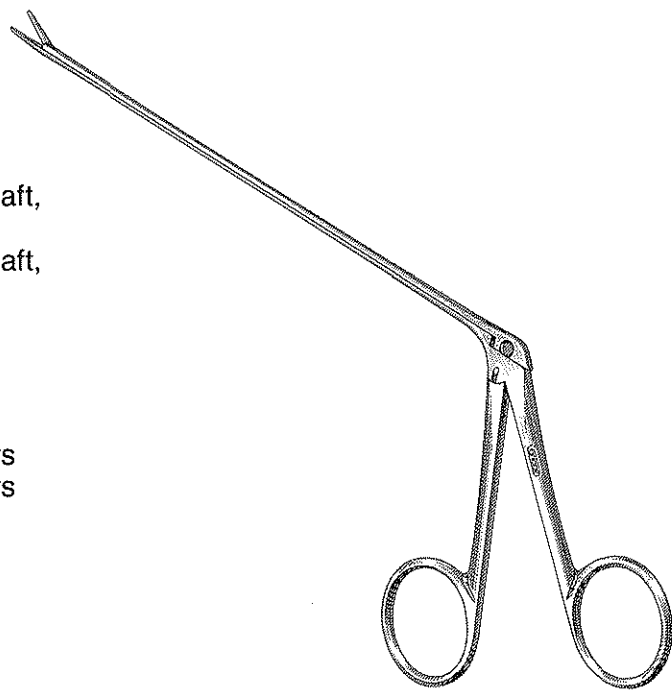
**V920-2** VIENNA Nasal Speculum, large size

**V920-3** VIENNA Nasal Speculum, medium size

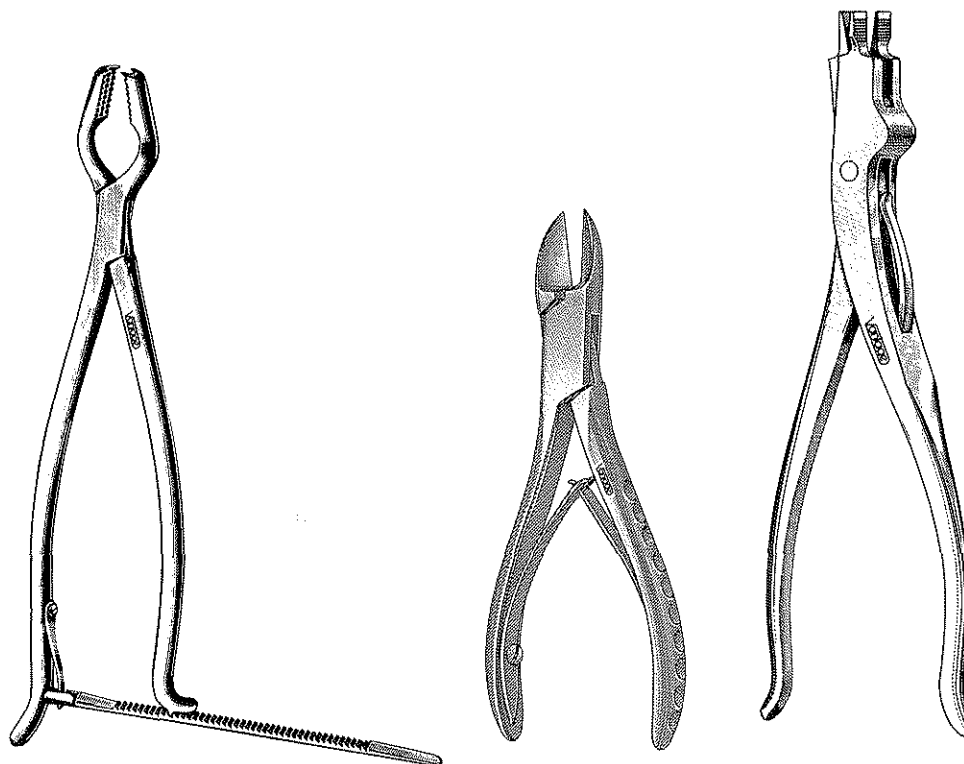
**V920-4** VIENNA Nasal Speculum, small size

**V920-140** NOYES Alligator Forceps, 5 1/2" shaft, serrated jaws

**V920-142** NOYES Alligator Forceps, 6 1/2" shaft, serrated jaws



**V920-140  
V920-142**



V927-4  
V927-7

V927-1390

V927-3100

V927-4  
V927-7

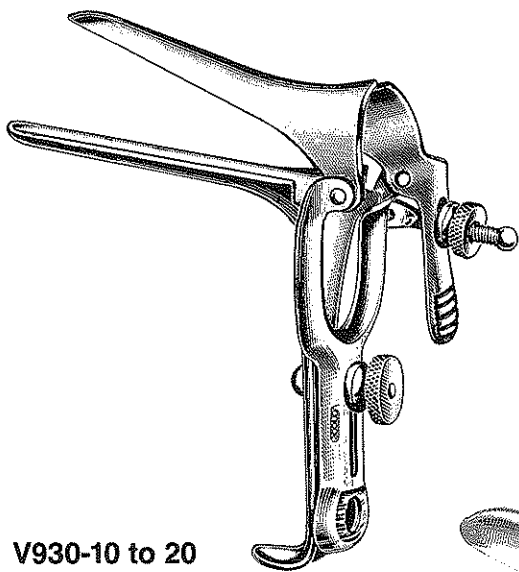
KERN Bone Holding Forceps 9-1/2", with ratchet  
KERN Bone Holding Forceps 6-1/2", with ratchet

V927-1390

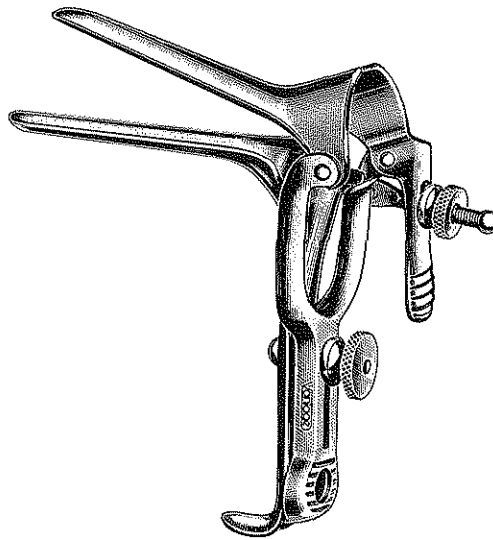
LISTON Bone Cutting Forceps 5-1/2", straight jaws

V927-3100

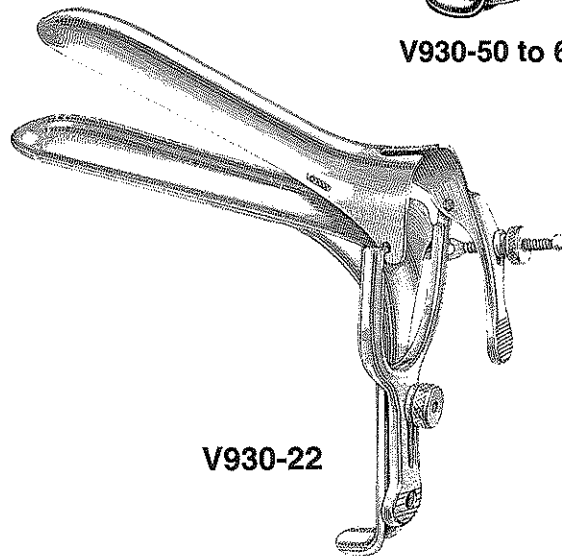
Cast Spreader 9", 3 prongs, with spring handle



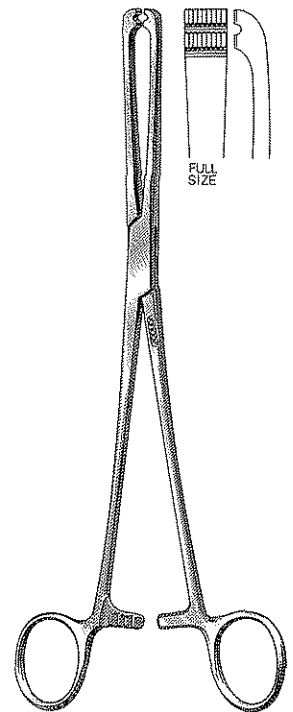
**V930-10 to 20**



**V930-50 to 60**



**V930-22**



**V930-856**

**V930-10**  
**V930-15**  
**V930-20**  
**V930-22**

GRAVES Vaginal Speculum, small size  
GRAVES Vaginal Speculum, medium size  
GRAVES Vaginal Speculum, large size  
GRAVES Vaginal Speculum, extra large

**V930-50**  
**V930-55**  
**V930-60**  
**V930-61**

PEDERSON Vaginal Speculum, virgin size  
PEDERSON Vaginal Speculum, medium size  
PEDERSON Vaginal Speculum, large size  
PEDERSON Vaginal Speculum, extra long (not pictured)

**V930-856**

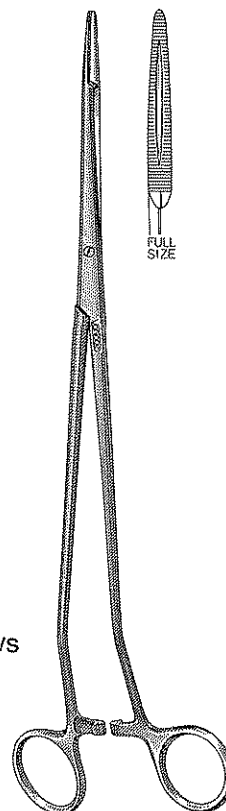
Atraumatic Tenaculum Forceps 9", straight, with 1/4" jaws

**V930-965**

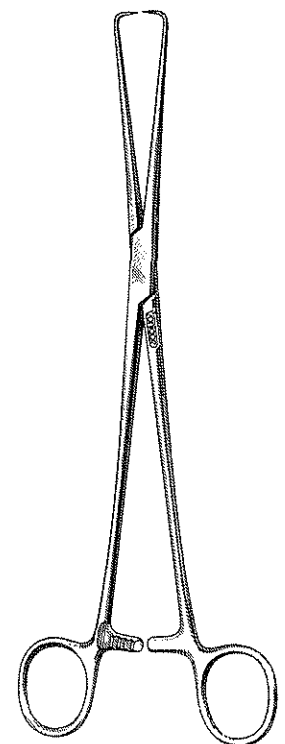
SCHROEDER Tenaculum Forceps 9-1/2", straight

**V930-996**

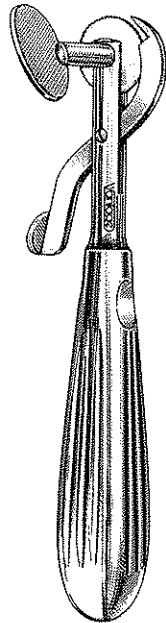
Polyp Forceps 10-1/2", angled shanks, delicate narrow jaws



**V930-996**



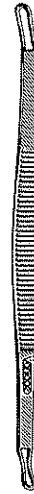
**V930-965**



**V933-140**  
**V933-142**



**V933-200**



**V933-201**

**V933-140** Finger Ring Cutter 6¼", chrome plated with tool steel saw blade  
**V933-142** Replacement Saw Blade

**V933-200** SCHAMBERG Comedone Extractor, open ends  
**V933-201** SCHAMBERG Comedone Extractor, small end crimped

## A

Accessories, Anesthesia.....	1
Accessories, Diagnostic.....	1
Accessories, Sterilizing.....	1
Adson Dressing Forceps.....	5
Adson Tissue Forceps.....	5
Alligator Ear Forceps.....	21
Allis Tissue Forceps.....	17
Anesthesia Accessories.....	1
Anesthesia Instruments.....	1
Atraumatic Tenaculum Forceps.....	23

## B

Babcock Tissue Forceps.....	17
Backhaus Towel Clamps.....	10
Bandage Scissors.....	4
Baumgartner Needle Holder.....	14
Bayonet Dressing Forceps.....	5
Bergh Cilia Forceps.....	19
Bishop-Harmon Dressing Forceps.....	19
Bone Cutting Forceps.....	22
Bone Holding Forceps.....	22
Bozeman Dressing Forceps.....	12
Brown-Adson Tissue Forceps.....	5
Buck Ear Curettes.....	20

## C

Carmalt Forceps.....	9
Cast Spreader.....	22
Castroviejo Needle Holder.....	19
Catheter Introducing Forceps.....	1
Cilia Forceps.....	19
Clamps, Towel.....	10
Clamps, Tube Occluding.....	11
Clip Applying and Removing Forceps.....	15
Collier Needle Holder.....	13
Comedone Extractors.....	24
Crile Forceps.....	7
Crile-Wood Needle Holder.....	14
Curettes.....	20
Curettes, Ear.....	20
Cutter, Ring.....	24

## D

Derf Needle Holder.....	13
Dermal Instruments.....	24
Diagnostic Accessories.....	1
Diagnostic Instruments.....	1
Dissecting Scissors.....	3
Doyen Intestinal Forceps.....	17
Dressing Forceps.....	5, 12, 18, 19

## E

Ear Forceps.....	20, 21
Ear Instruments.....	20, 21
Ear Specula.....	20

Endotracheal Catheter Forceps.....	1
English Pattern Tube Occluding Clamp.....	11
Esmarch Plaster Shears.....	4
Extractors, Comedone.....	24
Eye Dressing Forceps.....	18
Eye Instruments.....	18, 19
Eye Suture Scissors.....	15, 19

## F

Feilchenfeld Splinter Forceps.....	6
First Aid Scissors.....	4
First Aid Shears.....	4
Fixation Forceps.....	19
Foerster Sponge Forceps.....	12
Forceps, Alligator.....	21
Forceps, Atraumatic Tenaculum.....	23
Forceps, Bayonet.....	5
Forceps, Bone Cutting.....	22
Forceps, Bone Holding.....	22
Forceps, Catheter Introducing.....	1
Forceps, Cilia.....	19
Forceps, Clip Applying.....	15
Forceps, Clip Removing.....	15
Forceps, Dressing.....	5, 12, 18, 19
Forceps, Ear.....	20, 21
Forceps, Endotracheal.....	1
Forceps, Eye Dressing.....	18
Forceps, Fixation.....	19
Forceps, Grasping.....	1
Forceps, Hemostatic.....	7-9
Forceps, Intestinal.....	17
Forceps, Iris.....	18
Forceps, Mosquito.....	7
Forceps, Polyp.....	23
Forceps, Splinter.....	6
Forceps, Sponge.....	12
Forceps, Sterilizer.....	1
Forceps, Tenaculum.....	23
Forceps, Tissue.....	5, 17-19
Forceps, Tongue Seizing.....	1
Forceps, Tubing.....	11

## G

Gelpi Retractor.....	16
Graefe Fixation Forceps.....	19
Grasping Forceps.....	1
Graves Vaginal Speculum.....	23
Gruber Ear Specula.....	20
Gynecological Instruments.....	23

## H

Halsey Needle Holder.....	13
Halstead Mosquito Forceps.....	7
Hartman Mosquito Forceps.....	7

Hartman-Noyes Ear Forceps.....	21
Hemostatic Forceps.....	7-9

## I

Instruments, Anesthesia.....	1
Instruments, Dermal.....	24
Instruments, Diagnostic.....	1
Instruments, Ear.....	20, 21
Instruments, Eye.....	18, 19
Instruments, Gynecological.....	23
Instruments, Intestinal.....	17
Instruments, Nasal.....	21
Instruments, Orthopedic.....	22
Instruments, Sterilizing.....	1
Intestinal Instruments.....	17
Iris Scissors.....	3
Iris Tissue Forceps.....	18

## J

Jansen Dressing Forceps.....	5
Jones Towel Clamp.....	10

## K

Kelly Forceps.....	7
Kern Bone Holding Forceps.....	22
Kit, Splinter Removal.....	6
Knowles Bandage Scissors.....	4
Kocher Forceps.....	8

## L

Liberator, Splinter.....	6
Lister Bandage Scissors.....	4
Liston Bone Cutting Forceps.....	22
Littauer Junior Stitch Scissors.....	15
Littauer Stitch Scissors.....	15
Lorna Towel Clamps.....	10
Lucae Ear Forceps.....	20

## M

Magill Forceps.....	1
Mathieu Needle Holder.....	13
Mayo Scissors.....	3
Mayo-Hegar Needle Holders.....	14
Metal Ear Syringes.....	20
Metzenbaum, Scissors.....	3
Michel Clip Applying Forceps.....	15
Mosquito Forceps.....	7

## N

Nasal Instruments.....	21
Nasal Speculum.....	21
Needle Holders.....	13, 14, 19
Neurological Pinwheel.....	1
Non-Perforating Towel Clamps.....	10
Noyes Alligator Forceps.....	21



## O

Ochsner Forceps	9
Olsen-Hegar Needle Holders	14
Operating Scissors	2, 3
Orthopedic Instruments	22

## P

Pean Forceps	8
Pederson Vaginal Speculum	23
Pinwheel, Wartenberg	1
Plaster Shears	4
Polyp Forceps	23
Presbyterian Hospital Tube	
Occluding Clamp	11
Providence Hospital Forceps	7

## R

Rankin Forceps	8
Retractors	16
Retractors, Self-Retaining	16
Ring Cutter	24
Rochester Carmalt Forceps	9
Rochester Ochsner Forceps	9
Rochester Pean Forceps	8
Roeder Towel Clamp	10
Russian Tissue Forceps	5

## S

Schamberg Comedone Extractors	24
Schroeder Tenaculum Forceps	23
Scissors, Bandage	4
Scissors, Dissecting	3

Scissors, Eye Suture	15, 19
Scissors, First Aid	4
Scissors, Iris	3
Scissors, Operating	2, 3
Scissors, Stitch	15
Scissors, Strabismus	3
Scissors, Tenotomy	19
Scissors, Wire Cutting	15
Self-Retaining Retractors	16
Semkin Dressing Forceps	5
Semkin Tissue Forceps	5
Senn Retractor	16
Shapleigh Ear Curettes	20
Shears, First Aid	4
Shears, Plaster	4
Specula, Ear	20
Speculum, Nasal	21
Speculum, Vaginal	23
Spencer Stitch Scissors	15
Splinter Forceps	6
Splinter Liberator	6
Splinter Removal Kit	6
Sponge Forceps	12
Spreader, Cast	22
St. Vincent's Tube Occluding Clamp	11
Sterilizing Accessories	1
Sterilizing Instruments	1
Stevens Tenotomy Scissors	19
Stitch Scissors	15
Strabismus Scissors	3
Suture Scissors	19

Suture Sundries	15
Syringes, Ear	20

## T

Tenaculum Forceps	23
Tenotomy Scissors	19
Three-Prong, Sterilizer Forceps	1
Tissue Forceps	5, 17-19
Tongue Seizing Forceps	1
Towel Clamps	10
Tube Occluding Clamps	11
Tubing Forceps	11
Tyrell Hook	18

## U

U.S. Pattern Tube Occluding Clamps	11
------------------------------------	----

## V

Vaginal Speculum	23
Vienna Nasal Speculum	21
Virtus Splinter Forceps	6

## W

Walter Splinter Forceps	6
Wartenberg Pinwheel	1
Webster Needle Holder	13
Weitlaner Retractors	16
Wilde Ear Forceps	20
Wire Cutting Scissors	15

## Y

Young Tongue Seizing Forceps	1
------------------------------	---



www.miltex.com  
toll-free 866 854-8300  
phone 717 840-3414

Please call Customer  
Service today for additional  
information, an in-office  
demonstration, to place an  
order, or to receive other  
Miltex catalogs.

